Building with conscience.

Product guide 2022

valid from 1st January 2022

- Facade
- Interior
- Acoustics
- Tools

For the love of building. Building with conscience.

What drives us – and you – forwards? We will work together, driven by our love of building, to achieve the sustainable design of living space tailored to human needs. Worldwide.

For us as leading specialists in facades, external wall insulation systems, interiors, floor coatings, and concrete, this means developing responsible innovations and solutions for the future. As your reliable partner, we produce proven, innovative, and durable products and systems for use in creating and shaping building elements and surfaces in exteriors and interiors. So you can always be confident of delivering a perfect result while also remaining practical, efficient, and cost-effective.

Sustainability
Building with Sto means acting sustainably. With our products, you are contributing towards a sustainable future.

Functionality
Building with Sto means being in good hands – with outstanding, reliable products and solutions that meet today's requirements and tomorrow's.

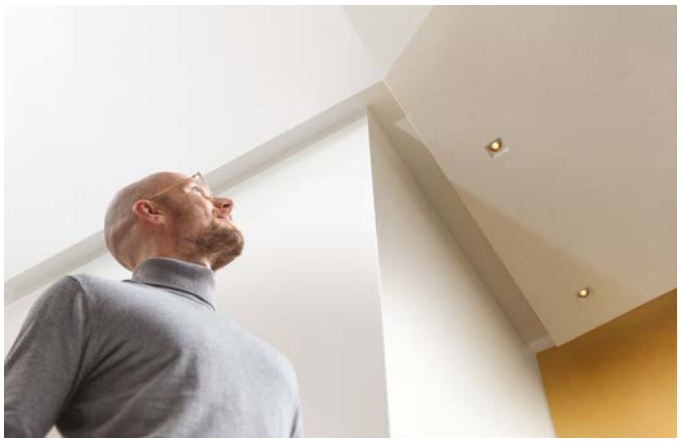
Aesthetic appeal
Building with Sto means realising attractive, personalised solutions. Our solutions are of high quality as well as of high aesthetic appeal.

Service
Building with Sto means being able to rely on perfect service from experts. As your reliable partner, we will provide you with dedicated support from the initial planning phase right through to the final result.

Contents

Contents

Interiors



Acoustics

Tools and machines

Services

External wall insulation systems

Ibis Styles Hotel, Aschaffenburg, DE
Photo: Martin Baitinger, Böblingen, DE

StoTherm: an overview

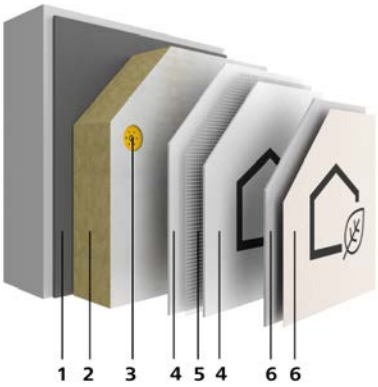
System	insulating layer		Reinforcing layer			Material layer		
	Insulant	Conductivity group	Base coat	Resistance to cracking	Water vapor diffusion	Finishing render	Light reflectance value limit	Additional material options
StoTherm AimS®	 Mineral wool	From WLG 035	 Organic base coats	■■	Class V2	 StoSignature	> 15	
StoTherm Classic®	 Polystyrene foam	From WLG 032	 Organic base coats	■■	Class V2	 StoSignature	> 15	+3 StoDeco, StoEcoshape, StoCleyer
StoTherm Vario	 Polystyrene foam	From WLG 032	 Mineral base coats	■	Class V1	 StoSignature	> 20	+4 StoDeco, StoGlass Mosaic, StoEcoshape, StoCleyer
StoTherm Mineral	 Mineral wool	From WLG 035	 Mineral base coats	■	Class V1	 StoSignature	> 20	+4 StoDeco, StoGlass Mosaic, StoEcoshape, StoCleyer
StoTherm Wood	 Soft wood fibre	From WLG 039	 Mineral base coats	■	Class V1	 StoSignature	> 20	+3 StoDeco, StoEcoshape, StoCleyer

■■ excellent
■ good

System properties				Area of use	
Reaction to fire	**Impact resistance Standard build-up**	**Sustainability**	**Cost-effectiveness**	**Detached house/ multiple dwelling**	**High-rise building**
A2, s1-d0	Up to 15 joules	■■	■	■	■■
Up to B	Up to 15 joules	■	■■	■■	
Up to B	Up to 3 joules	■	■■	■■	
A2, s1-d0	Up to 3 joules	■	■	■	■■
Up to B	Up to 3 joules	■■	■	■■	

StoTherm AimS®
Ecologically enhanced external wall insulation system featuring materials of tomorrow

System advantages
- over 95 % made of renewable and sufficiently available raw materials
- flammability rating: A2-s1, d0 in accordance with EN 13501-1
- especially suitable for high-rise, public and special-use buildings
- crack and impact-proof
- certified with the "Blue Angel" (Der Blaue Engel) environmental label
- cement-free, free of mineral oil



1 Bonding
2 Insulation
3 Fixing
4 Base coat
5 Reinforcement
6 Finishing coat

Overview StoTherm AimS®

Area of application	▪ new and existing buildings ▪ especially suitable for high-rise, public and special-use buildings ▪ suitable for passivhaus standard
Substrate	▪ masonry, e.g. brick, calcium silicate masonry units, cellular concrete, fair-faced masonry and masonry veneer ▪ concrete and concrete slab construction (three-layer concrete slabs)
Fixing	▪ bonding ▪ bonding and fixing with anchors
Thermal protection	▪ insulation board made of mineral wool, up to 340 mm thick
Reaction to fire	▪ non-combustible, class A2-s1, d0 in accordance with EN 13501-1
Impact resistance	▪ highly resistant to mechanical stress ▪ ball-impact resistant in accordance with DIN 18032-3
Sustainability	▪ system components made of renewable resources and/or sufficiently available raw materials ▪ cement-free ▪ biocide-free coating build-up
Other properties	▪ optional Lotus-Effect® Technology
Colour spectrum	▪ tintable in accordance with the StoColor System ▪ light reflectance value < 25 % possible
Application	▪ no intermediate coat required ▪ suitable for application by machine ▪ special protection against algae and fungi with a double coat of paint

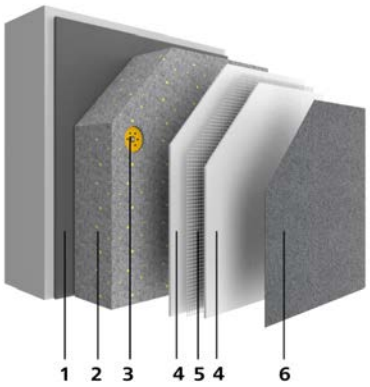
System description of StoTherm AimS®

Fixing	**Bonding**	**Bonding and fixing with anchors**
Building height	**up to an installation limit of 100 m in accordance with national building regulations**	
Substrate	· Suitable for bonding, load-bearing · Unevenness ≤ 1 cm · Pull-off resistance ≥ 0.08 N/mm²	· At least suitable for bonding · Unevenness ≤ 2 cm · Pull-off resistance < 0.08 N/mm²
Bonding refer to chapter: System components	**StoLevell Uni**	
Insulation refer to chapter: System components	**Sto-Speed Lamella II**	**Sto-Stone Wool Insulation Board**
Fixing refer to chapter: System components		**insulation board fixing approved**
Base coat refer to chapter: System components	**StoArmat Classic AimS®**	
Reinforcement refer to chapter: System components	**Sto-Glass Fibre Mesh**	
Finish refer to chapter: Facade coatings · Finishing renders, facade paints	**Stolit AimS®**[1)] **StoColor Lotusan AimS®**	

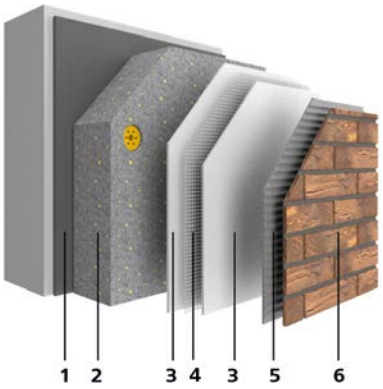
1) For optimum protection from possible algae and fungal attack as well as from general soiling, we recommend an additional paint coat StoColor Lotusan AimS®.

StoTherm Classic®
Robust external wall insulation system with maximum crack and impact resistance

System advantages
- highly resistant to mechanical stress
- system reliability - more than 100 million m² in use worldwide
- resistant to cracking thanks to an organic coating build-up
- highly resistant to microorganisms (algae and fungi)
- intense, dark colour shades possible
- cement-free, ready-to-use system components
- feasible without intermediate coat and paint coat
- clean construction sites through the use of Sto-Turbofix – the adhesive method based on PU foam
- resistant to hail, storms, and hurricanes according to the FIBAG simultaneous test
- highly weather-resistant
- permeable to water vapour and CO_2



1 Bonding
2 Insulation
3 Fixing
4 Base coat
5 Reinforcement
6 Finishing coat



1 Bonding
2 Insulation
3 Base coat
4 Reinforcement
5 Bonding
6 resin brick slip and prefabricated render elements

Overview StoTherm Classic®

Area of application	▪ new and existing buildings up to high-rise level ▪ suitable for passivhaus standard
Substrate	▪ masonry, e.g. brick, calcium silicate masonry units, cellular concrete, fair-faced masonry and masonry veneer ▪ concrete and concrete slab construction (three-layer concrete slabs) ▪ timber construction (solid, frame and panel construction) ▪ steel construction (column and framing) ▪ existing external wall insulation systems (doubling-up of insulation)
Fixing	▪ bonding ▪ bonding and fixing with anchors
Thermal protection	▪ insulation board made of EPS, up to 400 mm thick
Reaction to fire	▪ limited combustibility ▪ class B, C in accordance with EN 13501-1, depending on system build-up ▪ additional fire protection measures may be required
Impact resistance	▪ highly resistant to mechanical stress of up to 15 joules in a standard system build-up ▪ resistance of up to 60 joules in a highly impact-resistant build-up ▪ highest hail impact resistance class 5 in the appropriate system build-up ▪ ball-impact resistant in accordance with DIN 18032-3 ▪ resistant to hail, storms, and hurricanes according to the FIBAG simultaneous test
Other properties	▪ optional Lotus-Effect® Technology ▪ anti-electro-smog optional
Design options	▪ natural stone tiles, brick slips, and ceramic tiles possible on agreement ▪ organic and silicone resin renders as well as renders with Lotus-Effect® Technology in stippled render texture, rilled render texture, and free-style textured renders ▪ resin brick slips and 3D facade elements made of Verolith granulate
Colour spectrum	▪ tintable in accordance with the StoColor System ▪ light reflectance value < 25 % possible
Application	▪ cement-free, ready-to-use system components ▪ no intermediate coat required ▪ special protection against algae and fungi with a double coat of paint ▪ suitable for application by machine ▪ QS Technology makes it possible to carry out projects during the colder seasons
Approvals/standards	The relevant European and/or national approvals apply.

System description of StoTherm Classic

Fixing	**Bonding**	**Bonding and fixing with anchors**
Building height	**national fire protection requirements**	
Substrate	· Suitable for bonding, load-bearing · Unevenness ≤ 1 cm · Pull-off resistance ≥ 0.08 N/mm²	· Suitable for bonding without necessary pull-off resistance · Unevenness ≤ 2 cm · Pull-off resistance < 0.08 N/mm²
Bonding refer to chapter: System components	**Sto ADH-B** or **Sto-Dispersion Adhesive**	
Insulation refer to chapter: System components	**Sto-EPS Board 100 x 50 cm**	
Fixing refer to chapter: System components		**insulation board fixing approved**
Base coat refer to chapter: System components	**StoArmat Classic plus G** or **StoArmat Classic Plus QS G**	
Reinforcement refer to chapter: System components	**Sto-Glass Fibre Mesh**	
Finish refer to chapter: Facade coatings · Finishing renders, facade paints Facade claddings	**Stolit®** or **Stolit® QS**	**StoSilco®** or **StoSilco® QS**	**StoLotusan®**	**StoEcoshape** or **StoCleyer** with **Sto-Bonding and Pointing Mortar**
	StoColor Silco[1)] or **StoColor Jumbosil**[1)]	

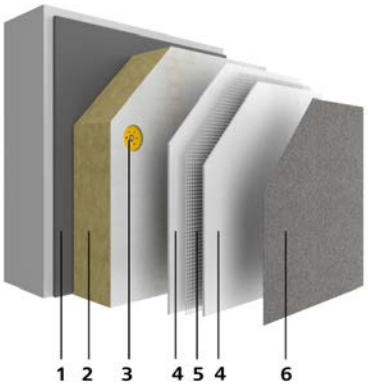
1) For optimum protection from possible algae and fungal attacks as well as from general soiling, we recommend an additional coating adapted to the system.

StoTherm Classic® L/MW

External wall insulation system with optimised fire protection and maximum crack and impact resistance

System advantages

- highly resistant to mechanical stress
- resistant to cracking thanks to an organic coating build-up
- class A2-s2, d0 in accordance with EN 13501-1
- highly resistant to microorganisms (algae and fungi)
- cement-free, ready-to-use system components
- feasible without intermediate coat and paint coat
- highly weather-resistant
- permeable to water vapour and CO_2



1 Bonding
2 Insulation
3 Fixing
4 Base coat
5 Reinforcement
6 Finishing coat

Overview StoTherm Classic® L/MW

Area of application	▪ new and existing buildings ▪ especially suitable for high-rise, public and special-use buildings ▪ suitable for passivhaus standard
Substrate	▪ masonry, e.g. brick, calcium silicate masonry units, cellular concrete, fair-faced masonry and masonry veneer ▪ concrete and concrete slab construction (three-layer concrete slabs)
Fixing	▪ bonding ▪ bonding and fixing with anchors
Thermal protection	▪ insulation board made of mineral wool, up to 340 mm thick
Reaction to fire	▪ limited combustibility ▪ class A, B, C in accordance with EN 13501-1, depending on system build-up ▪ if using Sto-Speedlamelle: - fire resistance class: up to REI 120 from the exterior - capsule criterion: K260
Impact resistance	▪ highly resistant to mechanical stress of up to 15 joules in a standard system build-up ▪ resistance of up to 60 joules in a highly impact-resistant build-up ▪ ball-impact resistant in accordance with DIN 18032-3
Other properties	▪ optional Lotus-Effect® Technology ▪ anti-electro-smog optional
Design options	▪ organic and silicone resin renders as well as renders with Lotus-Effect® Technology in stippled render texture, rilled render texture, and free-style textured renders ▪ resin brick slips and 3D facade elements made of Verolith granulate ▪ natural stone tiles, brick slips, and ceramic tiles possible on agreement
Colour spectrum	▪ tintable in accordance with the StoColor System ▪ light reflectance value < 25 % possible
Application	▪ cement-free, ready-to-use system components throughout ▪ no intermediate coat required ▪ suitable for application by machine ▪ QS Technology makes it possible to carry out projects during the colder seasons ▪ special protection against algae and fungi with a double coat of paint
Approvals/standards	The relevant European and/or national approvals apply.

System description of StoTherm Classic® L/MW

Fixing	**Bonding**	**Bonding and fixing with anchors**
Building height	**up to an installation limit of 100 m in accordance with national building regulations**	
Substrate	· Suitable for bonding, load-bearing · Unevenness ≤ 1 cm · Pull-off resistance ≥ 0.08 N/mm²	· At least suitable for bonding · Unevenness ≤ 2 cm · Pull-off resistance < 0.08 N/mm²
Bonding refer to chapter: System components	**Sto-ADH B** or **StoLevell Uni** or **Sto-Dispersion Adhesive**	
Insulation refer to chapter: System components	**Sto-Speed Lamella II**	**Sto-Stone Wool Insulation Board**
Fixing refer to chapter: System components		**insulation board fixing approved**
Base coat refer to chapter: System components	**StoArmat Classic plus G**	
Reinforcement refer to chapter: System components	**Sto-Glass Fibre Mesh**	
Finish refer to chapter: Facade coatings · Finishing renders, facade paints Facade claddings	**Stolit®**[1] or **Stolit® QS**[1]	**StoSilco®** or **StoSilco® QS** or **StoSilco blue**[1]
	StoLotusan®[1]	**StoEcoshape** or **StoCleyer** with **Sto-Bonding and Pointing Mortar**
	StoColor Silco[1] or **StoColor Jumbosil**[1]	

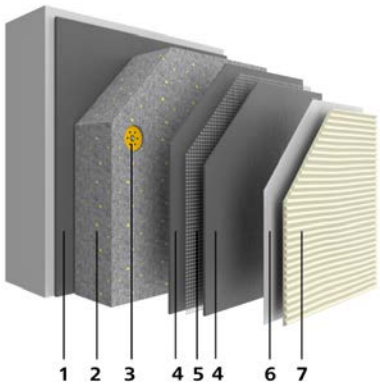
1) For optimum protection from possible algae and fungal attack as well as from general soiling, we recommend an additional paint coat matched to the system.

StoTherm Vario

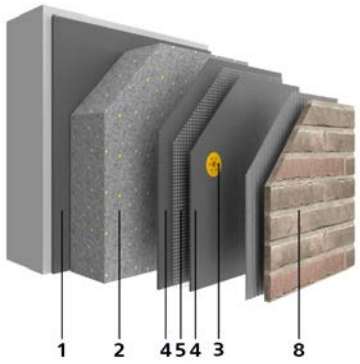
Cost-optimised external wall insulation system with a large selection of materials

System advantages

- free choice of finishing renders
- decorative facade finishes with ceramic and natural stone tiles possible
- entirely mineral coating build-up possible
- high resistance to microorganisms (algae and fungi), especially with an additional paint build-up (incl. prime coating)
- clean construction sites through the use of Sto-Turbofix – the adhesive method based on PU foam
- highly weather-resistant
- permeable to water vapour and CO_2



1 Bonding
2 Insulation
3 Fixing
4 Base coat
5 Reinforcement
6 Intermediate coat
7 Finishing coat

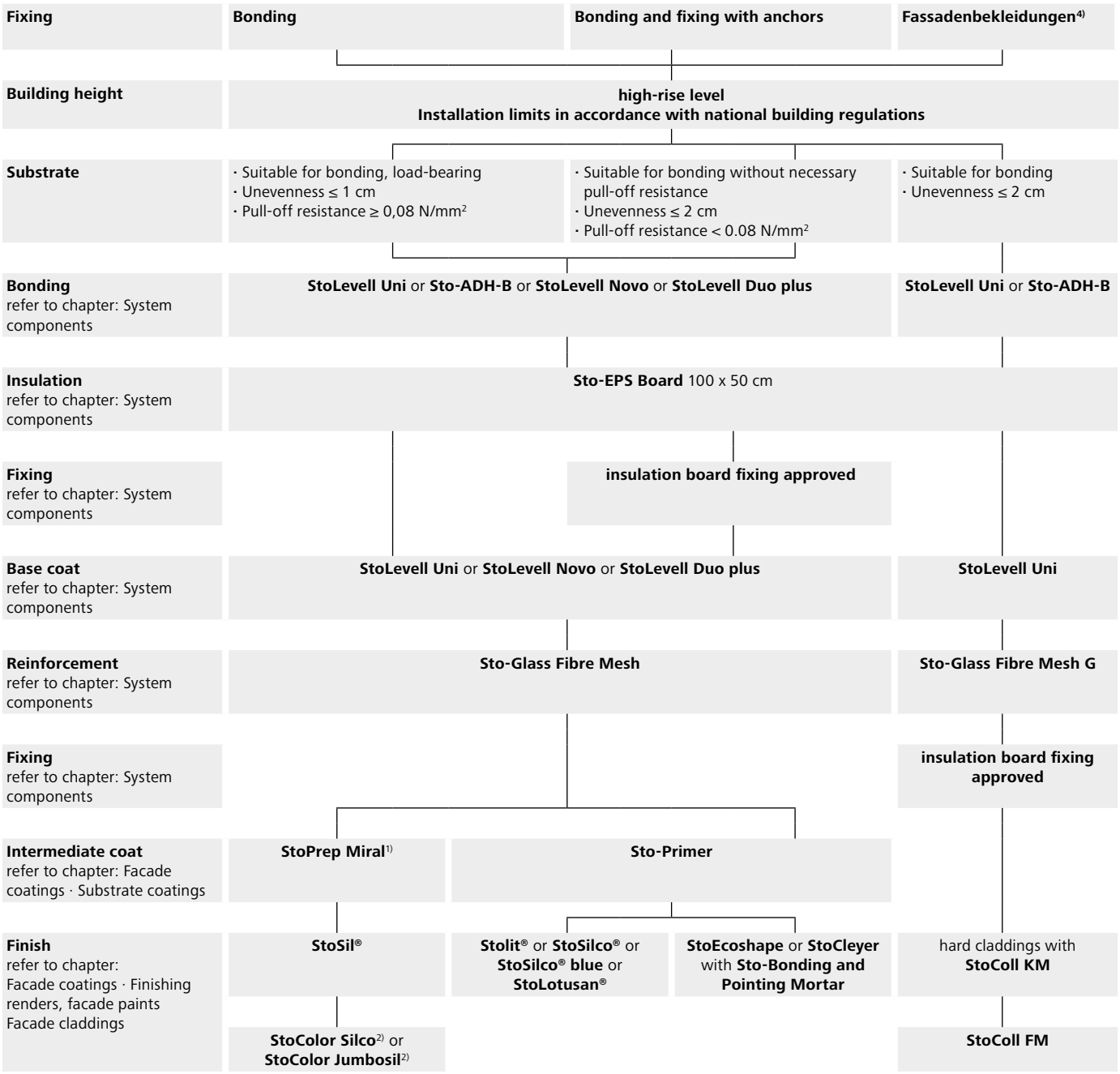


1 Bonding
2 Insulation
3 Fixing
4 Base coat
5 Reinforcement
6 Intermediate coat
7 Finishing coat
8 Facade cladding

Overview StoTherm Vario

Area of application	▪ new and existing buildings up to high-rise level ▪ suitable for buildings in accordance with the lowest energy standard
Substrate	▪ masonry, e.g. brick, calcium silicate masonry units, cellular concrete, fair-faced masonry and masonry veneer ▪ concrete and concrete slab construction (three-layer concrete slabs) ▪ timber construction (solid, frame and panel construction) ▪ steel construction (column and framing) ▪ existing external wall insulation systems (doubling-up of insulation)
Fixing	▪ bonding ▪ bonding and fixing with anchors ▪ purely mechanical fixing
Thermal protection	▪ insulation board made of EPS, up to 400 mm thick ▪ for natural stone and ceramic cladding up to 200 mm
Reaction to fire	▪ limited combustibility ▪ class B, C in accordance with EN 13501-1, depending on system build-up ▪ additional fire protection measures may be required
Impact resistance	▪ resistant to mechanical stress ▪ hail impact resistance class 3 in the appropriate system build-up
Other properties	▪ optional Lotus-Effect® Technology ▪ anti-electro-smog optional
Design options	▪ Organic renders, silicone resin renders, renders with Lotus-Effect® Technology, mineral renders, and silicate renders in stippled render texture, rilled render texture, or in free-style textured render ▪ resin brick slips and 3D facade elements made of Verolith granulate ▪ Natural stone tiles, glass mosaic, brick slips, and ceramic tiles
Colour spectrum	▪ limited tintability in accordance with the StoColor System ▪ light reflectance value ≥ 20 %
Application	▪ suitable for application by machine ▪ Stop & Go Technology ▪ QS and FT Technology make it possible to carry out projects during the colder seasons ▪ double paint coat necessary depending on the render type and colour shade ▪ no paint coat necessary if using organic finishing renders ▪ special protection against algae and fungi with a double coat of paint
Approvals/standards	The relevant European and/or national approvals apply.

System description of StoTherm Vario



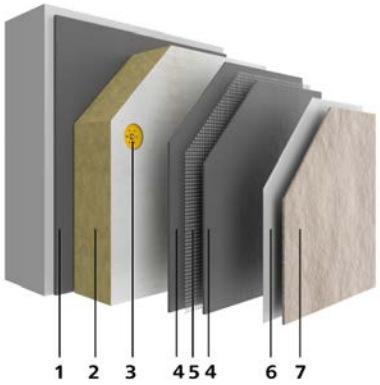
1) intermediate coat if necessary 2) protective coating if necessary 3) in accordance with national requirements

StoTherm Mineral

External wall insulation system with optimised fire protection and a large selection of materials

System advantages

- non-combustible
- free choice of finishing renders
- decorative facade finishes with ceramic and natural stone tiles possible
- entirely mineral coating build-up possible
- high resistance to microorganisms (algae and fungi), especially with an additional paint build-up (incl. prime coating)
- highly weather-resistant
- permeable to water vapour and CO_2

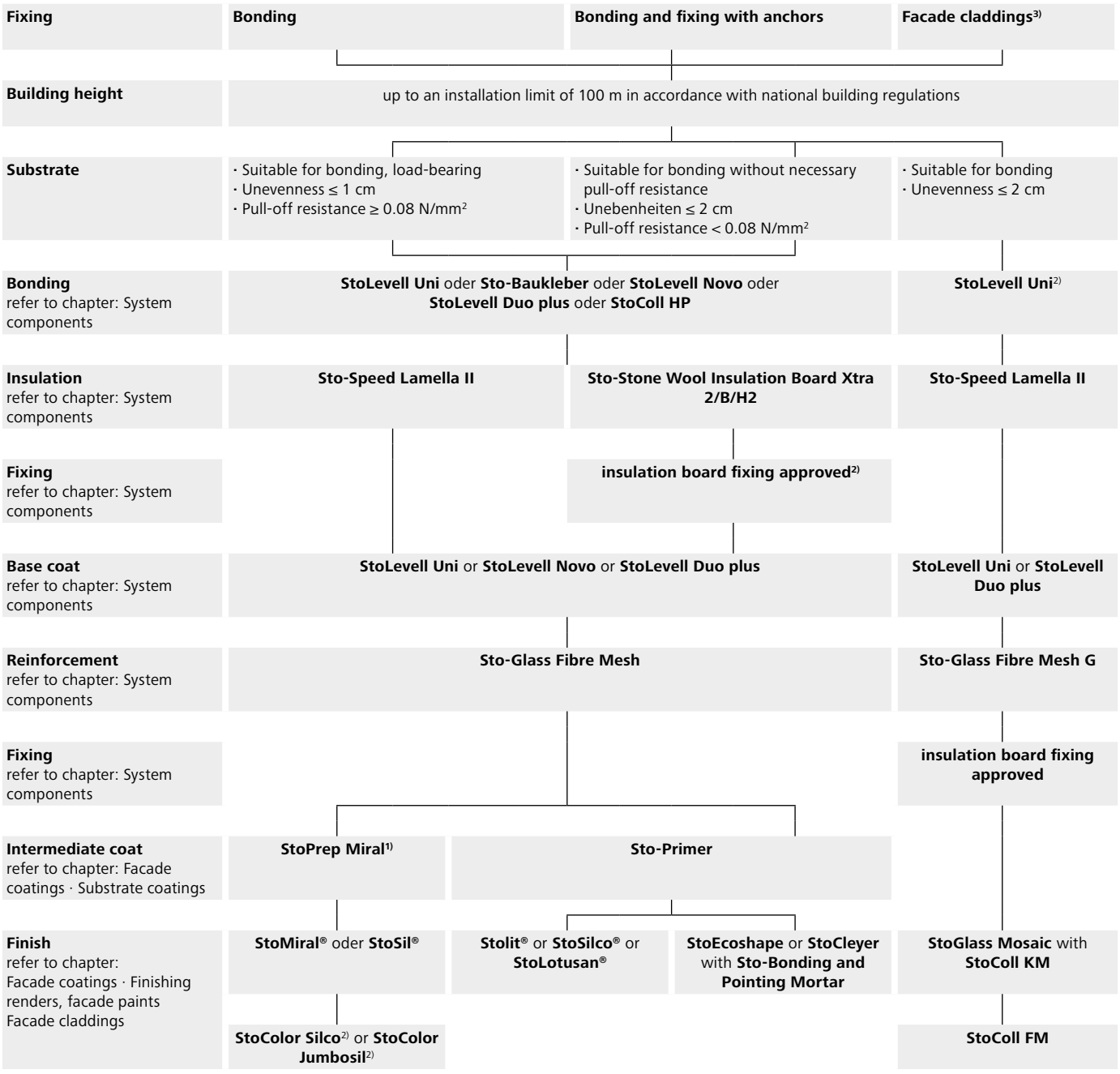


1 Bonding
2 Insulation
3 Fixing
4 Base coat
5 Reinforcement
6 Intermediate coat
7 Finishing coat

Overview StoTherm Mineral

Area of application	▪ new and existing buildings up to a height of 100 m ▪ especially suitable for high-rise, public and special-use buildings ▪ suitable for buildings in accordance with the lowest energy standard
Substrate	▪ masonry, e.g. brick, calcium silicate masonry units, cellular concrete, fair-faced masonry and masonry veneer ▪ concrete and concrete slab construction (three-layer concrete slabs) ▪ timber construction (solid, frame and panel construction) ▪ steel construction (column and framing) ▪ existing external wall insulation systems (doubling-up of insulation)
Fixing	▪ bonding ▪ bonding and fixing with anchors ▪ purely mechanical fixing
Thermal protection	▪ insulation board made of mineral wool, up to 340 mm thick ▪ for natural stone and ceramic cladding up to 200 mm
Reaction to fire	▪ non-combustible, class A2-s1, d0 in accordance with EN 13501-1
Impact resistance	▪ resistant to mechanical stress ▪ hail impact resistance class 3 in the appropriate system build-up
Other properties	▪ optional Lotus-Effect® Technology ▪ anti-electro-smog optional
Design options	▪ Organic renders, silicone resin renders, renders with Lotus-Effect® Technology, mineral renders, and silicate renders in stippled render texture, rilled render texture, or in free-style textured render ▪ three-dimensional facade elements made of Verolith granulate ▪ Natural stone tiles, glass mosaic, brick slips, and ceramic tiles ▪ natural stone tiles, bricks, ceramic tiles, and glass mosaic
Colour spectrum	▪ limited tintability in accordance with the StoColor System ▪ light reflectance value ≥ 20 %
Application	▪ suitable for application by machine ▪ Stop & Go Technology ▪ QS and FT Technology make it possible to carry out projects during the colder seasons ▪ double paint coat necessary depending on the render type and colour shade ▪ no paint coat necessary if using organic finishing renders ▪ special protection against algae and fungi with a double coat of paint
Approvals/standards	The relevant European and/or national approvals apply.

System description of StoTherm Mineral



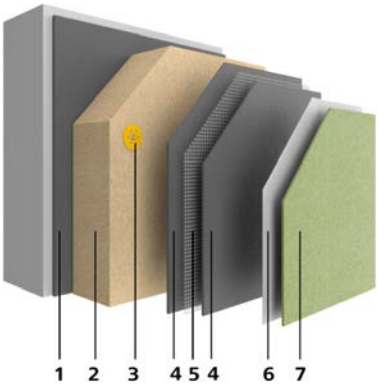
1) intermediate coating if necessary, 2) anchor fixing the Sto-Stone Wool Insulation Board Type 0/Type 1/Type 2 and fixing the Sto-Speed Lamella II with Sto-Dowel Head, 3) alternative: Sto-ADH-B or StoLevell Duo Plus, 4) in accordance with national requirements

StoTherm Wood

Climate-neutral external wall insulation system featuring a renewable insulant

System advantages

- natureplus®-certified
- improves the sound insulation in timber frame construction
- high resistance to microorganisms (algae and fungi), especially with an additional paint build-up (incl. prime coating)
- excellent thermal protection in summer
- highly weather-resistant
- permeable to water vapour and CO_2



1 Bonding
2 Insulation
3 Fixing
4 Base coat
5 Reinforcement
6 Intermediate coat
7 Finishing coat

Overview StoTherm Wood

Area of application	▪ new and existing buildings up to building class 3 (higher building classes also possible with fire protection concept in timber frame construction) ▪ building in accordance with the low-energy standard
Substrate	▪ onto external walls in timber frame construction with or without boarding made of standardised or approved board materials ▪ load-bearing timber frame constructions ▪ solid timber shells ▪ solid timber building elements, board pile elements ▪ masonry, for example, brick, calcium silicate masonry units, cellular concrete, fair-faced masonry ▪ concrete
Fixing	▪ in timber frame construction - fix with staples and anchors ▪ bonding and fixing solid, mineral substrates with anchors
Thermal protection	▪ insulation board made of soft wood fibre, up to 260 mm thick
Reaction to fire	▪ normal combustibility ▪ class B in accordance with EN 13501-1
Impact resistance	▪ resistant to mechanical stress
Other properties	▪ optional Lotus-Effect® Technology ▪ anti-electro-smog optional
Design options	▪ organic and silicone resin renders, render with Lotus-Effect® Technology, as well as mineral renders in stippled, rilled, and free-style textures ▪ resin brick slips
Colour spectrum	▪ limited tintability in accordance with the StoColor System ▪ light reflectance value ≥ 20 %
Application	▪ suitable for application by machine ▪ Stop & Go Technology ▪ QS and FT Technology make it possible to carry out projects during the colder seasons ▪ double paint coat necessary depending on the render type and colour shade ▪ no paint coat necessary if using organic finishing renders ▪ special protection against algae and fungi with a double coat of paint
Approvals/standards	The relevant European and/or national approvals apply.

System description of StoTherm Wood

Fixing	**Staple or anchor**	**Bonding and fixing with anchors**
Building height	**Installation limits in accordance with national building regulations**	
Substrate	directly onto the load-bearing timber frame construction, onto solid timber shells or timber board materials and solid wood elements	mineral, solid substrates
Bonding refer to chapter: System components		**StoLevell Uni**
Insulation refer to chapter: System components	**Sto-Soft Fibre Boards**	
Fixing refer to chapter: System components	**Sto-Screw Dowel H 60** or broad back staples	**insulation board fixing approved**
Base coat refer to chapter: System components	**StoLevell Uni** or **StoLevell Novo**	
Reinforcement refer to chapter: System components	**Sto-Glass Fibre Mesh**	
Intermediate coat refer to chapter: Facade coatings · Substrate coatings	**Sto-Primer**	

Finish refer to chapter: **Facade coatings** · Finishing renders, facade paints, facade claddings	**StoColor Lotusan®**[2)] or **StoColor Silco**[2)] or **StoColor Solical**[2)]	**StoSilco®** or **StoSilco® QS** or **StoLotusan®** or **StoSilco® blue**	**Stolit®** or **Stolit® QS**	**StoEcoshape** or **StoCleyer** with **Sto-Bonding and Pointing Mortar**

[1)] FT: Fast Technology, 2) For optimum protection against possible algae and/or fungal attack and general soiling, we recommend an additional paint build-up adapted to the system.
Note: A structural calculation is to be carried out for all wall structures! Numbe of anchors in accordance with wind suction load.

Doubling-up of existing EWIS

Refurbishment of old, damaged external wall insulation systems to restore functionality and achieve insulation in accordance with modern standards.

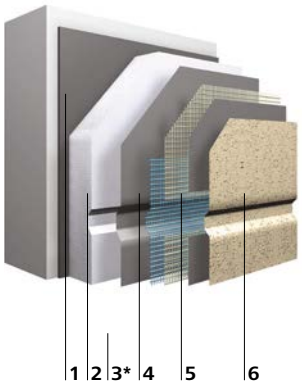
The system enables an existing but stable EWIS to remain in use by installing a new EWIS over the old system. Damage in the render system and obsolete insulation standards of older EWIS are thus ecologically and economically refurbished.

System description of doubled-up EWIS

	Checking the stability and properties of the old EWIS
Substrate	**suitable for bonding with existing coating**
Bonding	**full-surface and partial-surface bonding possible**
Doubled-up EWIS	**bonded and anchor-fixed EWIS**
Approvals	**The relevant European and/or national approvals apply.**

Overview of EWIS with rusticated appearance

Area of application	· Variants of the StoTherm Classic and StoTherm Vario systems · For facade desgins on load-bearing substrates · For renovation and design of existing and new buildings
Properties	· Insulation boards with central groove
Appearance	· Three groove forms · Scope for colour design by use of appropriate paint (e.g. StoColor Maxicryl)
Application	· Fixing by bonding and, if required, with anchors · Reinforcement of the rustication groove with the appropriate Sto-Rustication Mesh
Delivery	· The Sto-Rustication Boards Polystyrene are produced on a project-specific basis. Please note the delivery time.



1 bonding
2 insulation
3 fixing *not shown
4 base coat
5 reinforcement
6 finish

Area subject to a risk of impacts

Supplementary items to increase the mechanical resistance of Sto external wall insulation systems

System advantages

- maximum resistance to mechanical stress
- maximum shock and impact resistance
- very high crack resistance
- highly weather-resistant
- permeable to water vapour and CO_2

1 Bonding
2 Carrier board
3 Priming coat
4 Base coat
5 Reinforcement
6 Intermediate coat
7 Finishing coat

Overview Area subject to a risk of impacts

Area of application	▪ in areas subject to a risk of impact such as plinths, driveways, passages, children´s play areas, shopping centres ▪ with all Sto external wall insulation systems
Application	▪ complete selection of detail solutions

System description of area at risk of impact

	StoTherm Classic®
Insulation	**EPS/lamella/stone wool**
Intermediate coat refer to chapter: Facade coatings · Substrate coatings Additional reinforcement refer to chapter: System components	**StoArmat Classic plus G** with **Sto-Glass Fibre Mesh** or **Sto-Armour Mesh**
Base coat refer to chapter: System components	**StoArmat Classic plus G**
Reinforcement refer to chapter: System components	**Sto-Glass Fibre Mesh**
Finish refer to chapter: Facade coatings · Finishing renders	**StoLotusan® K** or **StoSilco®** or **Stolit®**

Plinth Area

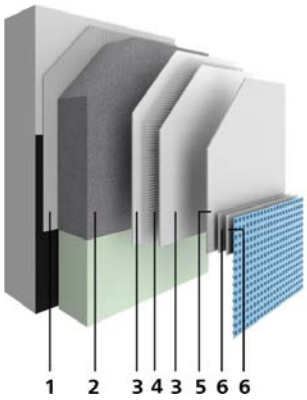
Supplementary items to increase the resistance to moisture of Sto external wall insulation systems

System advantages

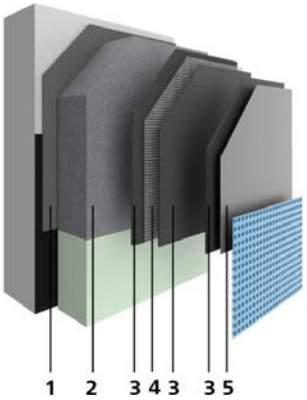
- very good moisture barrier in areas of increased water pollution due to splash water, rain, or meltwater
- very highly weather-resistant
- maximum shock and impact resistance of 15 joules (single-layered) and 60 joules (two-layered) in the corresponding system build-up

Overview Plinth Area

Area of application	▪ in the plinth and perimeter area ▪ with all Sto external wall insulation systems
Application	▪ complete selection of detail solutions

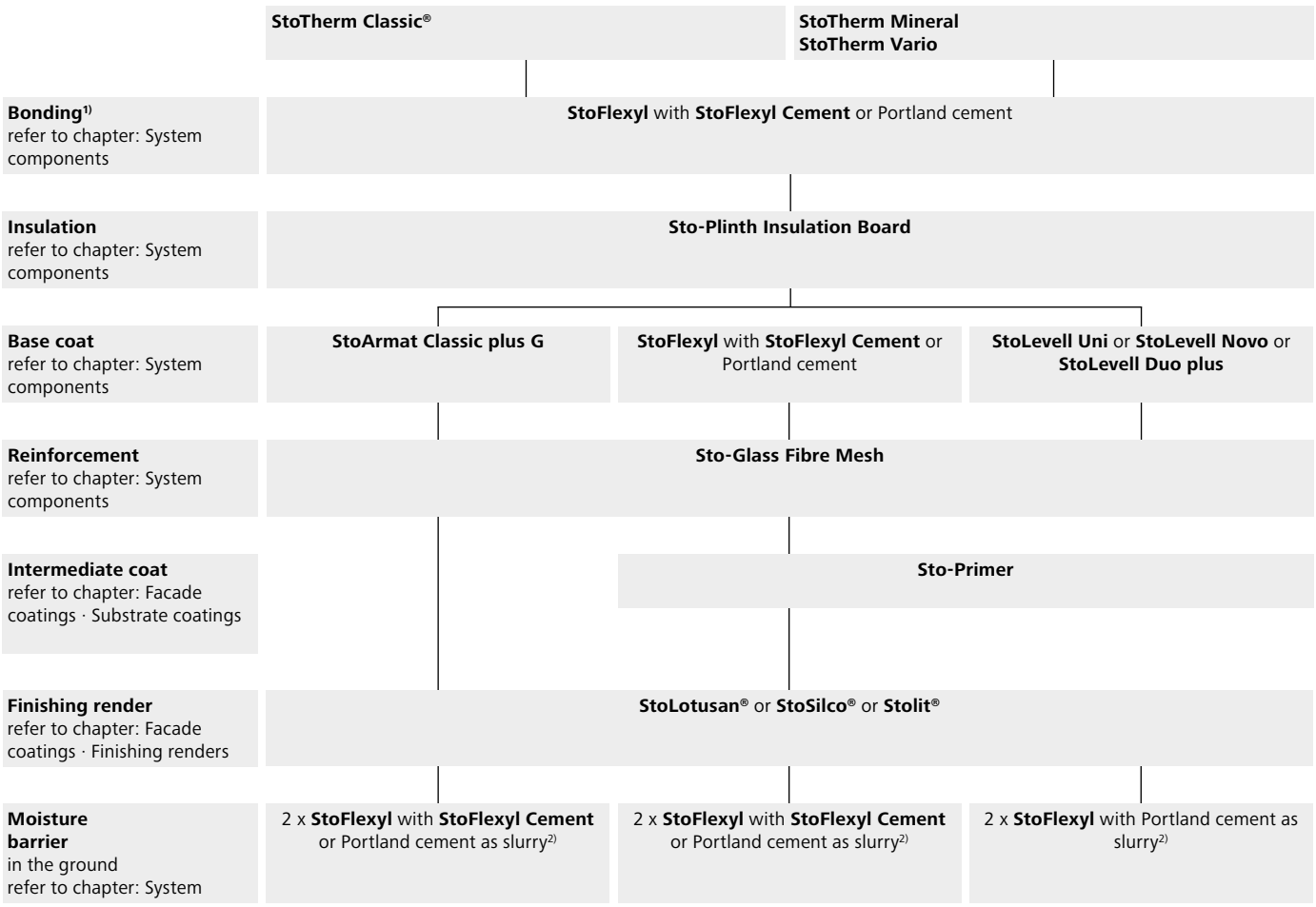


1 Bonding
2 Insulation
3 Base coat
4 Reinforcement
5 Finishing coat
6 Moisture barrier



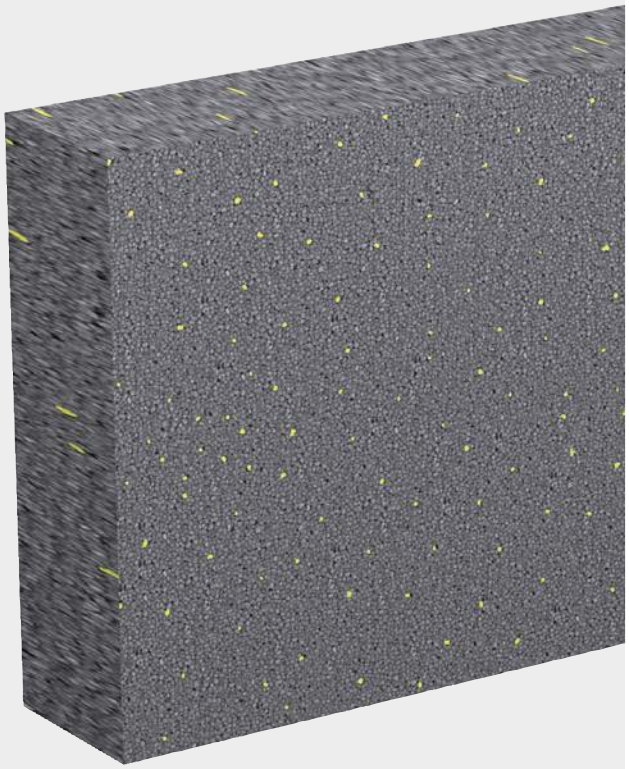
1 Bonding
2 Insulation
3 Base coat
4 Reinforcement
5 Finishing coat

System description of plinth/perimeter area



1) full-surface bonding to the wall (stipple technique or notched trowel 15 mm x 15 mm) – see Technical Data Sheet 2)at least 5 cm above ground

System components



Sto-Dispersion Adhesive

Organic adhesive compound for smooth substrates

Area of application
exterior, for the full-surface bonding of polystyrene rigid foam boards, for engineered wood, for load-bearing, level, weakly absorbent substrates, e.g. gypsum fibre boards and fibre cement slabs

Properties
ready-to-use

Notes
quantity required depends on substrate and insulant type, see Technical Data Sheet for detailed information

Approx. consumption	1.00 - 1.50 kg/m² bonding of EPS boards 4 x 4 notching 1.80 - 2.30 kg/m² bonding of EPS boards 6 x 6 notching
Colour shade	white
Application	

StoFlexyl

Organic filler for waterproofing and for protection from moisture

Area of application
exterior, as a primer, as a bonding mortar, as a filler, as a reinforcing compound, as an undercoat, for protection from moisture

Properties
provides protection against moisture in the plinth area and in the soil, good adhesion on bitumen substrates, highly versatile in use, sufficiently weather-resistant for use in plinth areas, crack extension: as reinforcement with mesh, approx. 2 %

Approx. consumption	3.90 kg/m² waterproofing (layer thickness [>=] 3.0 mm) 2.00 kg/m² bonding 0.50 kg/m² 2-fold slurry-applied moisture protection coat (approx. 0.7 mm) 1.30 kg/m² reinforcement
Colour shade	grey/white
Application	must be mixed with StoFlexyl Cement / cement CEM I or CEM II A/LL or CEM II B/LL parts by weight 1.0 : 1.0, as a moisture protection coat: additionally dilute with approx. 10 % water

StoFlexyl Cement

Special cement for StoFlexyl

Area of application
exterior, in combination with StoFlexyl

Properties
special cement for StoFlexyl type CEM II B-LL 42.5 R

Approx. consumption	3.90 kg/m² waterproofing 2.00 kg/m² bonding 0.50 kg/m² primer and moisture protection coat 1.30 kg/m² reinforcement
Appearance	white Portland cement
Colour shade	white
Application	see the Technical Data Sheet for StoFlexyl

Bonding mortars

Sto-ADH-B

Mineral bonding mortar

Area of application
exterior and interior, for bonding insulation boards onto mineral and organic substrates, as adhesive compound for StoTherm Classic®, StoTherm Vario and StoTherm Mineral

Properties
very high adhesive strength and adhesion to substrate, very good non-sag properties, highly permeable to water vapour

Notes
quantity required depends on substrate and insulant type, see Technical Data Sheet for detailed information

Approx. consumption	4.00 - 6.00 kg/m² bonding 1.33 kg/m² per mm layer thickness
Colour shade	cement-grey
Application	

StoColl IP

Mineral bonding mortar

Area of application
exterior and interior, for bonding insulation boards onto mineral and organic substrates, as adhesive compound for StoTherm Vario and StoTherm Mineral

Properties
high adhesive strength and adhesion to substrate, good resistance to flow, highly permeable to water vapour

Notes
quantity required depends on substrate and insulant type, see Technical Data Sheet for detailed information

Approx. consumption	4.00 - 6.00 kg/m² bonding
Colour shade	cement-grey
Application	

StoLevell Uni

Mineral bonding and reinforcing mortar/base coat

Area of application
exterior and interior, for reworking old mineral renders and nearly all old organic renders or masonry, for bonding insulation boards and render carrier boards to mineral or organic, non-elastic substrates, for thin-layer reinforcing coats, as adhesive and reinforcing compound for StoTherm Vario, StoTherm Mineral and StoTherm Reno

Properties
very good application properties, very high adhesive strength and adhesion to substrate, very highly permeable to water vapour, very highly water-repellent, very highly weather-resistant

Notes
natureplus®-certified as part of an insulation system, quantity required depends on substrate and insulant type, see Technical Data Sheet for detailed information

Approx. consumption	4.00 - 7.00 kg/m² bonding 4.00 - 5.00 kg/m² reinforcement 1.28 kg/m² per mm layer thickness
Colour shade	natural white
Application	

StoLevell Novo

Mineral lightweight mortar/base coat for bonding and reinforcing with polystyrene as lightweight aggregate

Area of application
exterior and interior, for bonding insulation boards onto mineral substrates, for producing medium- and thick-layer reinforcing coats, as adhesive and reinforcing compound for StoTherm Vario and StoTherm Mineral

Properties
highly economical in consumption, suitable for application in medium to thick layers, highly suitable for machine application, very highly permeable to water vapour, very highly weather-resistant, low weight

Notes
quantity required depends on substrate and insulant type, see Technical Data Sheet for detailed information

Approx. consumption	3.50 - 4.00 kg/m² bonding 5.00 - 15.00 kg/m² Reinforcement depends on system approval 4.50 - 14.00 kg/m² reinforcement for StoTherm Vario and Mineral 0.86 kg/m² per mm layer thickness
Colour shade	natural white
Application	sprayable with commonly available fine plaster and render spray machines

StoLevell Duo plus

Mineral bonding and reinforcing mortar/base coat

Area of application
exterior and interior, for reworking old mineral renders or masonry, for bonding insulation boards onto mineral substrates, for thin-layer reinforcing coats, as adhesive and reinforcing compound for StoTherm Vario and StoTherm Mineral

Properties
highly suitable for machine application, high adhesive strength and adhesion to substrate, highly permeable to water vapour, highly water-repellent, weather-resistant

Notes
quantity required depends on substrate and insulant type, see Technical Data Sheet for detailed information

Approx. consumption	4.50 - 7.50 kg/m² bonding 4.50 - 6.00 kg/m² reinforcement 1.30 kg/m² per mm layer thickness
Colour shade	light grey
Application	

StoColl KM

Mineral, flexible grout for brick slips, ceramic, natural stone tiles, and glass mosaic

Area of application
exterior and interior, as a grout (flexible adhesive) for suitable brick slips, ceramic and natural stone tiles, and glass mosaic, for bonding StoPanel Plus, on StoLevell Uni mineral reinforcing mortar, on organic reinforcing mortar with intermediate coat (StoPrep Contact)

Properties
excellent adhesive bond, resistant to frost and weathering, optimum non-sag properties, meets C1TE requirements in accordance with EN 12004

Approx. consumption	3.50 - 4.50 kg/m² bonding 1.20 kg/m² per mm layer thickness
Colour shade	grey, white
Application	application to both surfaces (back-buttering method)

EPS insulation boards

Sto-Insulation Board Top32

Insulation board made of expanded polystyrene foam in accordance with EN 13163

Area of application
exterior and interior, as an insulation board in external and internal wall insulation systems, fixing by bonding, or bonding and anchors, in StoTherm Classic® and StoTherm Vario, do not use in the ground

Properties
declared thermal conductivity λ_D: 0.031 W/(m*K), fire classification E in accordance with EN 13501-1

Notes
design thermal conductivity λ: 0.032 W/(m*K), packaging unit: bundle, amount/bundle of m² depends on board thickness

Approx. consumption	1.00 m²/m²
Format	100 x 50 cm edges: straight

Sto-EPS Board PS15SE 040

Insulation board made of expanded polystyrene foam in accordance with EN 13163

Area of application
exterior, as an insulation board in external wall insulation systems, fixing by bonding, or bonding and anchors

Properties
declared thermal conductivity λ_D: 0.038 W/(m*K), fire classification E in accordance with EN 13501-1

Notes
design thermal conductivity λ: 0.040 W/(m*K), amount/bundle of m² depends on board thickness, packaging unit: bundle

Format	100 x 50 cm edges: straight

Stone wool insulation boards

Sto-Speed Lamella Type II

Insulation board made of mineral wool in accordance with EN 13162

Area of application
exterior, as an insulation board in external wall insulation systems, fixing by bonding, or bonding and anchors, not suitable for use in the plinth area and in the soil

Properties
declared thermal conductivity λ_D: 0.040 W/(m*K), fire classification A1 in accordance with EN 13501-1, melting point: > +1000 °C, high pull-off resistance (≥ 80 kN/m²) due to vertical fibres, pre-coated on both sides (if one side of the lamella has strips without coating, use this side as the adhesive side)

Approx. consumption	1.00 m²/m²
Format	120 x 20 cm

Sto-Stone Wool Insulation Board Type 0/A

Insulation board made of mineral wool in accordance with EN 13162

Area of application
exterior, as an insulation board in external wall insulation systems, fixing with anchors, not suitable for use in the plinth area and in the soil

Properties
declared thermal conductivity λ_D: 0.034 W/(m*K), fire classification A1 in accordance with EN 13501-1, melting point: > +1000 °C, pull-off resistance: ≥ 5 kN/m², mineral, diffusion-open, uncoated

Approx. consumption	1.00 m²/m²
Format	80 x 62.5 cm

Sto-Stone Wool Insulation Board 2/A/D1 W3

Insulation board made of mineral wool in accordance with EN 13162

Area of application
exterior, as an insulation board in external wall insulation systems, fixing with anchors, not suitable for use in the plinth area and in the soil

Properties
declared thermal conductivity λ_D: 0.034 W/(m*K), fire classification A1 in accordance with EN 13501-1, melting point: > +1000 °C, pull-off resistance: ≥ 5 kN/m², mineral, diffusion-open, pre-coated on both sides (observe the marking, marked side = render side)

Notes
design thermal conductivity [LambdaR]: 0.034 W/(m*K)

Approx. consumption	1.00 m²/m²
Format	80 x 62.5 cm
Application	efficient application due to pre-coating

Sto-Stone Wool Insulation Board Xtra 2/B/H4

Insulation board made of mineral wool in accordance with EN 13162

Area of application
exterior, as an insulation board in external wall insulation systems, fixing with anchors, not suitable for use in the plinth area and in the soil

Properties
reduced weight for easy handling on the construction site, homogeneous board structure ensures adhesive and reinforcement side are not mixed up, pre-coating on both sides saves a time-consuming scratch coat, declared thermal conductivity λ_D: 0.034 W/(m*K), fire classification A1 in accordance with EN 13501-1, melting point: > +1000 °C, adhesive strength ≥ 10 kN/m², mineral, diffusion-open, no glowing combustion in accordance with EN 16733

Approx. consumption	1.00 m²/m²
Format	120 x 40 cm edges: straight for board thicknesses, see product guide

Sto-Stone Wool Insulation Board Xtra 2/B/H2

Insulation board made of mineral wool in accordance with EN 13162

Area of application
exterior, as an insulation board in external wall insulation systems, fixing with anchors, not suitable for use in the plinth area and in the soil

Properties
declared thermal conductivity λ_D: 0.034 W/(m*K), fire classification A1 in accordance with EN 13501-1, melting point: > +1000 °C, pull-off resistance: ≥ 7.5 kN/m², mineral, diffusion-open, pre-coated on both sides (product side with coating free strips = adhesive side)

Notes
application type: WAP-zh (rendered external insulation of walls - high tensile strength) in accordance with DIN 4108-10, in accordance with the guidelines of the Fachverband Wärmedämmverbundsystem e.V. - qualities beyond standard requirements

Approx. consumption	1.00 m²/m²
Format	edges: straight 120 x 40 cm
Application	efficient application due to pre-coating on both sides of the board

Sto-Stone Wool Insulation Board BR Xtra 2/C

Insulation board made of mineral wool in accordance with EN 13162

Area of application
exterior, as a fire strip in external wall insulation systems, fixing with anchors

Properties
declared thermal conductivity λ_D: 0.034 W/(m*K), fire classification A1 in accordance with EN 13501-1, pull-off resistance: ≥ 5 kN/m², mineral, diffusion-open, pre-coated on both sides

Notes
design thermal conductivity λ: 0.035 W/(m*K), packaging unit: bundle, amount/bundle of m² depends on board thickness

Approx. consumption	1.00 m²/m²
Format	120 x 20 cm
Application	efficient application due to pre-coating

Plinth and perimeter insulation boards

Sto-Plinth Insulation Board PS30SE

Insulation board made of expanded polystyrene foam in accordance with EN 13163

Area of application
exterior, as an insulation board in splash zone (plinth) and soil (perimeter), fixing by bonding, not permitted in the capillary fringe of the ground water (generally approx. 30 cm above the WT) and in the area of pressing water

Properties
declared thermal conductivity λ_D: 0.034 W/(m*K), fire classification E in accordance with EN 13501-1

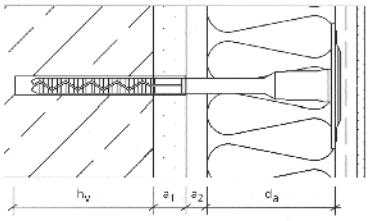
Notes
if using it as a perimeter board, observe the terms specified in the manufacturer´s approval, design thermal conductivity λ: 0.035 W/(m*K)

Approx. consumption	1.00 m²/m²
Format	100 x 50 cm edges: straight

Overview of anchors

Dowel	European Technical Approval	Use category/substrates
Insulation board fixing		
Sto-Thermo Dowel II UEZ 8/60	04/0023	A - Concrete B - Solid masonry C - Perforated masonry D - Lightweight concrete E - Cellular concrete
Sto-Screw-In Anchor K-RACE 8/60	16/0116	A - Concrete B - Solid masonry C - Perforated masonry D - Lightweight concrete E - Cellular concrete
Sto-Ecotwist	10/0208	A - Concrete B - Solid masonry C - Perforated masonry D - Lightweight concrete E - Cellular concrete
Sto-Hammer-In Anchor T-Save UEZ-K 8/60	14/0400	A - Concrete B - Solid masonry C - Perforated masonry
Sto-Screw-In Anchor H 60	–	Wood Board materials Sheet meta
Sto-Hammer-In Anchor UEZ-SK-08 8/60	09/0394	A - Concrete B - Solid masonry C - Perforated masonry D - Lightweight concrete

Overview of fixing options: calculation of required anchor length



minimum anchorage depth $_{hef}$ + existing render coat a_1 + adhesive mortar layer a_2 + insulant thickness d_a** = required anchor length*	Only approved anchors in accordance with the EWI system approval – selection in accordance with wall material, substrate and insulant thickness. The available anchor lengths are to be observed in each case.
* round up to next anchor length if necessary ** reduction when using Sto-Thermo Caps (but not with Sto-Thermo Dowel II UEZ 8/60)	

Sto-Thermo Anchor II UEZ 8/60

Insulation board fixing with European Technical Approval for recessed or surface-flush installation

Area of application
exterior, for concrete, solid and perforated building materials, no-fines lightweight concrete, cellular concrete - use category A, B, C, D, E

Properties
plate and anchor sleeve made of plastic, anchor screw made of galvanised steel, recessed installation in the insulant to prevent anchor pattern staining, chi value 0.002 W/K or 0.001 W/K depending on the type of installation, universal expanding zone for a very broad spectrum of substrates, high characteristic loads, automatic setting control
for recessed installation, countersunk installation is possible without milling dust

Notes
installation tool: see Tools (Sto-Thermo Anchor II MT), European Technical Approval ETA-04/0023

Format	ø 8 mm plate diameter: 60 mm
Colour shade	yellow
Application	surface-flush installation: concrete, brickwork, no-fines, lightweight concrete (use category A, B, C, D): drill-hole depth, ≥ 35 mm, anchorage depth ≥ 25 mm cellular concrete (use, category E) drill-hole depth ≥ 75 mm, anchorage depth ≥ 65, mm combination with Sto-Anchor Plate Enlarger possible,, seal the screw opening with a Sto-Thermo Anchor VE recessed, installation: concrete, brickwork, no-fines lightweight concrete, (use category A, B, C, D): drill-hole depth ≥ 50 mm, anchorage, depth ≥ 25 mm cellular concrete (use category, E): drill-hole depth ≥ 90 mm, anchorage depth ≥ 65, mm cover the anchor plate with the corresponding Sto-Thermo, Anchor Cap

Sto-Thermo Anchor Cap

Cap for countersunk installation

Area of application
exterior, for covering the Sto-Thermo Anchor II UEZ 8/60, Sto-Screw-In Anchor H 60, Sto-Screw-In Anchor H 60 E

Properties
for a homogenous insulant surface, for preventing anchor-related point thermal bridge staining

Approx. consumption	1.00 pcs./pcs.
Format	ø 66 mm thickness: 15 mm
Appearance	available in various insulant qualities EPS white EPS grey mineral wool phenolic resin PIR

Sto-Screw-In Anchor K-RACE 8/60

Approved insulation board fixing with a synthetic screw for surface-flush installation

Area of application
exterior, for surface-flush fixing of insulation boards in external wall insulation systems, for concrete, solid building materials, perforated building materials, no-fines lightweight concrete, cellular concrete, use categories: A, B, C D, E

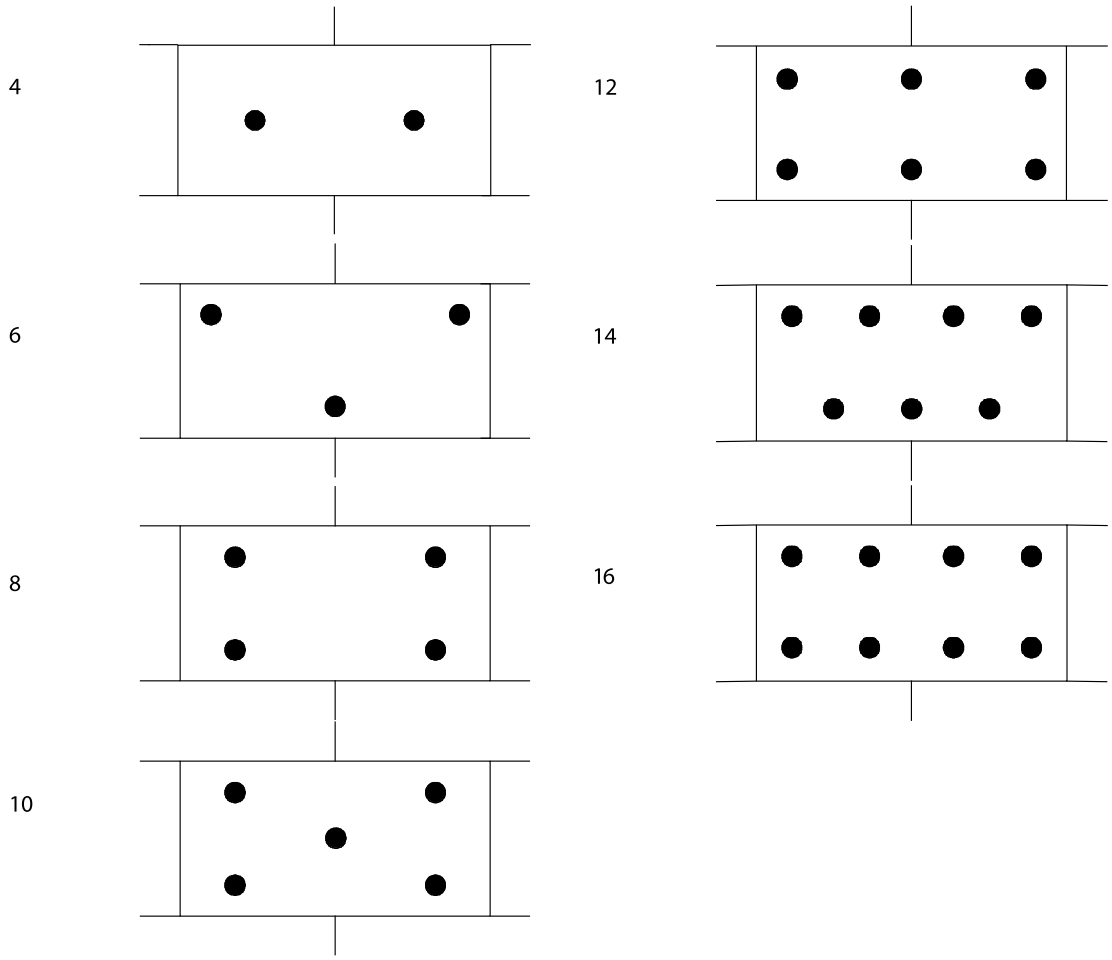
Properties
fast installation, convenient working due to low torque when screwing in, free from thermal bridges, chi value: 0.000 W/K, optionally available installation tool enables an optimum setting appearance

Notes
installation tool: see Tools (Sto-Screw-In Anchor K-RACE MT), European Technical Approval ETA 16/0116

Format	diameter of the anchor shaft: 8 mm plate diameter: 60 mm
Colour shade	anchor plate: red, screw: black, sleeve: black
Application	concrete, masonry, no-fines lightweight concrete, (use category A, B, C,, D): drill-hole depth ≥ 40 mm, nominal anchorage depth ≥ 30, mm, effective anchorage depth ≥ 25 mm (in the base in each case), cellular concrete (use category E): drill hole depth ≥ 60 mm,, nominal anchorage depth ≥ 50 mm, effective anchorage depth ≥ 45 mm, (in the base in each case), can be combined with the Sto-Anchor Plate Enlarger H

Overview of fixing options: anchor patterns for Sto-Ecotwist in EPS

Anchors/m² for board size 100 x 50 cm or 120 x 40 cm
Edge distances EPS 032/035: a ≥ 100 mm



Sto-Ecotwist

Insulation board fixing with European Technical Approval for recessed installation

Area of application
exterior, for concrete, solid and perforated building materials, no-fines lightweight concrete, cellular concrete - use category A, B, C, D, E in accordance with EAD 330196-01-0604, for use in external wall insulation systems, for fixing polystyrene rigid foam boards

Properties
plate and anchor sleeve made of plastic, anchor screw made of galvanised steel, countersunk installation in the insulant, chi value 0.002 W/K, or 0.001 W/K, or 0,000 W/K depending on the type of installation, only one anchor for insulant thicknesses of 100-400 mm, clean cut through the spiral plate tapered downwards

Notes
European Technical Approval ETA-12/0208, installation tool: see Tools (Sto-Ecotwist MT)

Format	ø 8 mm coil diameter: 66 mm total length: 162 mm (Sto-Ecotwist 0-10), 202 mm (Sto-Ecotwist 10-30) or 232 mm (Sto-Ecotwist 30-60)
Colour shade	spiral plate: yellow, anchor sleeve: grey
Application	anchorage depth in the load-bearing substrate for all anchor types: ≥35 mm, close the screw opening with Sto-Ecowist VE or PU foam

Sto-Ecotwist VE

Closing element for Sto-Ecotwist

Properties
made of expanded polystyrene foam, made of mineral wool

Format	ø 15 mm length: 20 mm
Colour shade	grey

Sto-Hammer-In Anchor T-Save UEZ-K 8/60

Insulation board fixing with European Technical Approval

Area of application
exterior, for concrete, solid building materials, perforated building materials, no-fines lightweight concrete, cellular concrete, use categories: A, B, C D, E

Properties
optimised setting action for easy driving-in and good surface quality, pre-fitted nails for fast installation, the fibre-reinforced composite material minimises the risk of breaking nails, free from thermal bridges, chi value: 0.000 W/K

Notes
European Technical Approval ETA-14/0400

Format	diameter of the anchor shaft: 8 mm plate diameter: 60 mm
Colour shade	anchor plate: white, anchor sleeve: black
Application	drill-hole depth: ≥ 40 mm, nominal anchorage depth: ≥ 30 mm, (in the load-bearing substrate), effective anchorage depth: ≥ 25 mm

Sto-Screw-In Anchor S1 short 8/60

Insulation board fixing with plastic screw for thin insulants

Area of application
exterior, for concrete, solid building materials, perforated building materials, no-fines lightweight concrete, cellular concrete, use categories: A, B, C D, E, for surface-flush installation of insulation boards with 20-60 mm thickness

Properties
convenient working due to low torque when screwing in

Notes
installation tool: see under tools (Sto-Screw-In Anchor S1 K-01 MT)

Format	thread diameter of screw: 8 mm plate diameter: 60 mm length, dimensions in mm: 60, 80, 100
Colour shade	anchor plate: grey, screw: black, sleeve: black

Sto-Screw-In Anchor H 60

Insulation fixing

Area of application
exterior, for timber, board materials, for sheet metals up to a thickness of 0.75 mm, for surface-flush fixing of insulation boards in external wall insulation systems, for recessed fixing of insulation boards in external wall insulation systems

Properties
recessed installation in EPS to prevent anchor pattern staining, recessed installation without milling dust

Notes
accessories: see tools and machines – system tool – EWIS, special lengths are available on request

Format	plate diameter: 60 mm thread diameter of screw: 6 mm
Colour shade	white
Application	recommended anchorage depth: > 25 mm, surface-flush installation using long T25 bit and closing the screw opening with closing element provided, recessed installation in EPS with Sto-Thermo Anchor II MT and covering the anchor plate with Sto-Thermo Anchor Cap

Sto-Thermo Cap

Anchor plate cover

Area of application
for covering the anchor plates of countersunk Sto-Screw-In/ Hammer-In/Self-Tapping Anchors

Notes
for accessories see System tools - EWIS

Format	ø 64 mm - polystyrene, stone wool thickness: 25 mm
Application	only in combination with Sto-Thermo Countersinking Tool, not suitable for Sto-Thermo Anchor II UEZ 8/60 and Sto-Screw-In Anchor H 60

Sto-Anchor Plate Enlarger

Anchor plate enlarger for enlarging the plate diameter of EWIS anchors

Area of application
for fixing stone wool insulation boards and lamellas, in combination with Sto-Thermo Anchor II UEZ 8/60, in combination with Sto-Hammer-In Anchor T UEZ 8/60, in combination with Sto-Hammer-In Anchor eco T SK 8/60, in combination with Sto-Schraubdübel H 60

Colour shade	white

Sto-Recessed Anchor Plate

Anchor plate enlarger for countersunk installation

Area of application
exterior, for countersunk installation of the Sto-Thermo Anchor II UEZ 8/60

Properties
additional plate for the Sto-Thermo Anchor II UEZ 8/60, for a homogeneous and smooth surface, no additional setting tool required

Notes
minimum insulant thickness ≥ 80 mm, maximum insulant thickness ≤ 300 mm

Colour shade	white, yellow
Application	suitable for use with mineral wool insulation boards that correspond to, the standard T5 - DS (T+) - WL (P) and fulfil the following criteria:, compressive strength or compression stress at 10 % compression - 4.0 kPa, in accordance with EN 826. Tensile strength · 3.5 kPa in accordance with, EN 1607 Euroclass A1 or A2-s-1, d-0 in accordance with EN 13501-1

Sto-Hammer-In Anchor S UEZ 8

Rail fixing with European Technical Approval

Area of application
for fixing profiles made of plastic or metal, for concrete, solid and perforated building materials, use categories: A, B, C

Notes
European Technical Approval ETA-05/0009

Format	diameter of the anchor shaft: 8 mm length, dimensions in mm: 45, 65, 85
Colour shade	white
Application	drill-hole depth: ≥ 35 mm, anchorage depth: ≥ 25 mm, in the load-bearing substrate

Base coat

StoArmat Classic S1

Organic, cement-free reinforcing compound/base coat with large texturing grain, non-combustible in accordance with EN 13501, basalt-fibre-modified

Area of application
exterior, on mineral and organic substrates, as a reinforcing compound/base coat for StoTherm Classic® S1, as a reinforcing compound/ base coat for StoVentec facades, as a levelling filler, as a renovation filler, not suitable for horizontal or sloping surfaces that are exposed to weather conditions

Properties
basalt-fibre-modified, cement-free, reaction to fire: class A2-s1, d0 in accordance with EN 13501-1, non-combustible, reaction to fire in the StoTherm Classic® S1 system: class A2-s1, d0 in accordance with EN 13501-1, non-combustible, mineral extenders, basalt-modified, very good application properties, highly reliable application thanks to additional large texturing grain, excellent application properties

Notes
crack extension: approx. 2 %, Impact resistance: > 15 joules are possible with appropriate system build-up.

Approx. consumption	3.50 - 4.50 kg/m² as reinforcing compound on EPS foam boards 4.50 - 6.50 kg/m² as reinforcing compound on mineral wool insulation boards
Colour shade	white StoColor
Application	

StoArmat Classic AimS®

Organic, cement-free reinforcing compound/base coat made from/with renewable resources

Area of application
exterior, on mineral and organic substrates, as a reinforcing compound/base coat for StoTherm Classic® MW/MW-L AimS, as a levelling filler, as a renovation filler, not suitable for horizontal or sloping surfaces that are exposed to weather conditions

Properties
cement-free, ready-to-use, very good application properties, highly reliable application thanks to additional large texturing grain, good filling properties, excellent application properties

Colour shade	white StoColor
Application	

StoArmat Classic plus F/M/G

Organic, cement-free reinforcing compound/base coat

Area of application
exterior, on mineral and organic substrates, as a reinforcing compound/base coat for StoTherm Classic®, as a reinforcing compound/base coat for StoVentec facades, as a levelling filler, as a renovation filler

Properties
cement-free, ready-to-use, very good application properties, high application reliability, good filling properties, excellent application properties

Notes
crack extension: approx. 2 %, Impact resistance: > 15 joules are possible with appropriate system build-up.

Approx. consumption	3.50 - 9.50 kg/m² as reinforcing compound on EPS foam boards 4.50 - 10.00 kg/m² as reinforcing compound on mineral wool insulation boards
Colour shade	white StoColor
Application	

StoArmat Classic plus QS F/M/G

Organic, cement-free reinforcing compound/base coat with early rainproofing properties

Area of application
exterior, on mineral and organic substrates, as a reinforcing compound/base coat for StoTherm Classic®, as a reinforcing compound/base coat for StoVentec facades, as a levelling filler, as a renovation filler

Properties
early rainproofing with QuickSet Technology, cement-free, ready-to-use, very good application properties, high application reliability, good filling properties, excellent application properties

Notes
crack extension: approx. 2 %, Impact resistance: > 15 joules are possible with appropriate system build-up.

Approx. consumption	3.50 - 9.50 kg/m² as reinforcing compound on EPS foam boards 4.50 - 10.00 kg/m² as reinforcing compound on mineral wool insulation boards
Colour shade	white StoColor
Application	

StoLevell Uni

Mineral bonding and reinforcing mortar/base coat

Area of application
exterior and interior, for reworking old mineral renders and nearly all old organic renders or masonry, for bonding insulation boards and render carrier boards to mineral or organic, non-elastic substrates, for thin-layer reinforcing coats, as adhesive and reinforcing compound for StoTherm Vario, StoTherm Mineral and StoTherm Reno

Properties
very good application properties, very high adhesive strength and adhesion to substrate, very highly permeable to water vapour, very highly water-repellent, very highly weather-resistant

Notes
natureplus®-certified as part of an insulation system, quantity required depends on substrate and insulant type, see Technical Data Sheet for detailed information

Approx. consumption	4.00 - 7.00 kg/m² bonding 4.00 - 5.00 kg/m² reinforcement 1.28 kg/m² per mm layer thickness
Colour shade	natural white
Application	

StoLevell Novo

Mineral lightweight mortar/base coat for bonding and reinforcing with polystyrene as lightweight aggregate

Area of application
exterior and interior, for bonding insulation boards onto mineral substrates, for producing medium- and thick-layer reinforcing coats, as adhesive and reinforcing compound for StoTherm Vario and StoTherm Mineral

Properties
highly economical in consumption, suitable for application in medium to thick layers, highly suitable for machine application, very highly permeable to water vapour, very highly weather-resistant, low weight

Notes
quantity required depends on substrate and insulant type, see Technical Data Sheet for detailed information

Approx. consumption	3.50 - 4.00 kg/m² bonding 5.00 - 15.00 kg/m² Reinforcement depends on system approval 4.50 - 14.00 kg/m² reinforcement for StoTherm Vario and Mineral 0.86 kg/m² per mm layer thickness
Colour shade	natural white
Application	sprayable with commonly available fine plaster and render spray machines

Reinforcement

Sto-Glass Fibre Mesh

Alkali-resistant reinforcing mesh

Area of application
exterior and interior, as a reinforcing mesh, all-purpose

Properties
optimised absorption of forces for the ultimate in reliability and crack prevention, high tensile strength, fibres resistant to dislocation, alkali-resistant, plasticiser-free, mass per unit area: approx. 165 g/m², tear resistance on delivery: ≥ 1750 N/50 mm

Approx. consumption	1.00 m/m² with an overlap of 10 cm
Format	mesh width: 6 x 6 mm roll width: 110 cm
Colour shade	white with yellow markings

Sto-Glass Fibre Mesh G

Alkali-resistant reinforcing mesh

Area of application
exterior, as a reinforcing mesh in facade insulation systems with rigid cladding made from e.g. natural stone, porcelain stoneware, glass mosaic, and brick

Properties
high tensile strength, fibres resistant to dislocation, highly alkali-resistant, plasticiser-free, mass per unit area: approx. 210 g/m², tear resistance on delivery: ≥ 2400 N/50 mm

Approx. consumption	1.00 m/m² with an overlap of 10 cm
Format	mesh width: 7 x 8 mm roll width: 110 cm
Colour shade	white with yellow markings

Sto-Armour Mesh

High-strength reinforcing mesh

Area of application
exterior, as additional reinforcement, for improving the compressive strength of facade insulation systems in areas subject to a risk of impact

Properties
high tensile strength, fibres resistant to dislocation, alkali-resistant, plasticiser-free, mass per unit area: approx. 450 g/m², tear resistance on delivery: ≥ 4000 N/50 mm

Approx. consumption	1.00 m/m²
Format	mesh width: 7.5 x 7.5 mm width: 100 cm
Colour shade	white

Sto-Detail Mesh

Extra-fine reinforcing mesh

Area of application
exterior, for producing details, only suitable for cement-free fillers

Approx. consumption	1.00 m²/m²
Format	mesh width: 3 x 3 mm width: 25 cm

Sto-Armour Angle

Preformed, reinforced glass fibre mesh

Area of application
exterior, for forming corners on facade insulation systems

Properties
fibres resistant to dislocation, alkali-resistant, plasticiser-free, mass per unit area: approx. 280 g/m², tear resistance on delivery: ≥ 2300 N/50 mm

Approx. consumption	7 x 9 cm	1.00 m/m
	11 x 13 cm	1.00 m/m
Format	mesh width clearance: 13 mm x 5 mm width: 7 x 9 cm or 11 x 13 cm length: 50 m	
Colour shade	white	

Sto-Rustication Mesh

Preformed mesh piece

Area of application
exterior, as reinforcement for rusticated facades

Properties
convex mesh part, alkali-resistant

Approx. consumption	0.53 pcs./m
Format	Length: 200 cm type I: trapezoidal groove, width 3.0/2.0 cm, depth 1.5 cm type II: trapezoidal groove, width 3.5/2.0 cm, depth 1.5 cm type III: triangular groove, width 3.0 cm, depth 1.8 cm

Sto-Rustication Mesh Corner Piece

Preformed mesh piece

Area of application
exterior, as reinforcement for rusticated facades, for corners of buildings

Properties
type for inward corner of buildings/outward corner of buildings, alkali-resistant

Approx. consumption	1.00 pcs./pcs.
Format	internal corner, external corner type I: trapezoidal groove, width 3.0/2.0 cm, depth 1.5 cm type II: trapezoidal groove, width 3.5/2.0 cm, depth 1.5 cm type III: triangular groove, width 3.0 cm, depth 1.8 cm

Sto-Rustication Mesh Cross- and T-Piece

Preformed mesh piece

Area of application
exterior, as reinforcement for rusticated facades, for cross-junctions of rustications

Properties
version for cross-junctions/T-junctions of rustications, alkali-resistant

Approx. consumption	1.00 pcs./pcs.
Format	cross-piece, T-piece type I: trapezoidal groove, width 3.0/2.0 cm, depth 1.5 cm type II: trapezoidal groove, width 3.5/2.0 cm, depth 1.5 cm type III: triangular groove, width 3.0 cm, depth 1.8 cm

Accessories

Sto-Starter Track Universal

Aluminium profile for the plinth area

Area of application
for the plinth area in facade insulation systems

Properties
made of piece-anodised aluminium, extruded for maximum stability, with an integrated drip edge

Approx. consumption	1.00 m/m
Format	projection: 22, 32, 42, 52, 62, 72, 82, 92, 102, 122, 142, 152, 162, 182, 202 mm Length: 200 cm

Sto-Starter Track Universal Corner Piece

Aluminium profile for the plinth area

Area of application
exterior, for the plinth area in facade insulation systems, for building corners

Properties
profile made of piece-anodised aluminium, extruded for maximum stability, with an integrated drip edge

Approx. consumption	1.00 pcs./m
Format	projection: 62, 82, 102, 122, 142, 162, 182 mm Length: 100 cm

Sto-Clip-on Bead Perfect

Additional profile with integrated glass fibre mesh

Area of application
exterior, for bridging in the joint area of the Sto-Starter Track Universal, guarantees a minimum layer thickness for reinforcements in the plinth area

Properties
made of plastic, with integrated glass fibre mesh

Approx. consumption	1.00 m/m
Format	length: 230 cm drip edge: 3 and 6 mm Length: 240 cm drip edge: 10 mm
Colour shade	white

Sto-Packing Shim

Spacer with central notch

Area of application
as an underlay to compensate for unevenness of the substrate, for starter tracks

Properties
made of plastic

Approx. consumption	1.00 pcs./pcs.
Format	30 x 30 mm

Sto-Starter Track Connector S

Connecting element

Area of application
for connecting Sto-Starter Track Universal in the joint area

Properties
made of plastic

Approx. consumption	1.00 pcs./pcs.
Format	length: 30 mm

Sto-Starter Track Connector L

Connecting element

Area of application
for connecting plinth profiles in the joint area

Properties
made of plastic, can be cut to size as needed

Approx. consumption	1.00 pcs./pcs.
Format	length: 115 cm

Sto-Mesh Angle Bead Standard

Edge profile with integrated glass fibre mesh

Area of application
exterior, for forming corners on facade insulation systems

Properties
made of plastic, with integrated glass fibre mesh

Approx. consumption	1.00 m/m
Format	mesh width: 4 x 4 mm mesh piece, dimensions in cm: 11/13, 11/22, 10/35 other formats on request length: 250 cm
Colour shade	yellow profile

Sto-Mesh Corner Roll Ideal

Mesh angle with variable angle formation

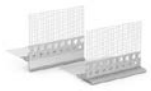
Area of application
exterior, for forming corners on facade insulation systems, for straight-edged or acute-angled external corners of buildings

Properties
made of plastic, with integrated glass fibre mesh, variable angle formation possible, with a robust plastic edge

Approx. consumption	1.00 m/m
Colour shade	white

Sto-Drip Edge Profile Vario

Variable drip edge profile with integrated glass fibre mesh



Area of application
exterior, for forming drip edges on facade insulation systems, for creating a horizontal edges for ceramic cladding, as edge protection in StoReno, for thin- and medium-layer reinforcement

Properties
made of plastic, with integrated glass fibre mesh

Approx. consumption	1.00 m/m
Format	length: 250 cm
Colour shade	white

Sto-Drip Edge Profile DP

Edge profile with integrated glass fibre mesh

Area of application
exterior, for forming drip edges on facade insulation systems

Properties
made of plastic, with integrated glass fibre mesh, with connecting pins for a flush butt joint

Approx. consumption	profile	1.00 m/m
	corner piece	1.00 pcs./pcs.
Format	drip edge: 3, 6, 10 mm Length: 240 cm	
Colour shade	white	

Overview of Sto-Seal Beads

	Area of application				
	Window recessed in the masonry (wall structure)		Window flush with the masonry (wall structure)		Window in front of the masonry (wall structure), in the insulant[1]
Window size	≤ 3 m²	≤ 10 m²	≤ 10 m²	≤ 10 m²	≤ 10 m²
Installation length	≤ 2,4 m (without joints)	≤ 7,2 m	≤ 7,2 m	≤ 7,2 m	≤ 7,2 m
Insulant thickness	≤ 160 mm	≤ 300 mm	≤ 160 mm	≤ 300 mm	≤ 300 mm
Sto-Seal Bead Supra	✔	✔	✔	✔	✔
Sto-Seal Bead Perfect	✔	✔	✔ [2]		

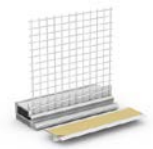
✔ suitable

[1] Does not apply to windows that are flush with the finished facade or protrude from it.

[2] Can also be used with an insulant thickness of up to 200 mm if the window is ≤ 6 m².

Sto-Seal Bead Supra

Reveal bead with integrated PU joint sealing tape



Area of application
exterior, for permanent waterproofing of junctions to other building elements (window and door frames, shutter guide tracks) in facade insulation systems, suitable for windows (< 10 m²) which are recessed in the brickwork, flush with the brickwork, or situated in front of the brickwork, insulant thickness: ≤ 300 mm, not suitable for windows that are flush with the finished facade or protrude from it

Properties
with a PUR joint sealing tape for the absorption of three-dimensional movements, self-adhesive, made of plastic, with integrated glass fibre mesh, with a shadow gap, with a self-adhesive protective strip for fixing masking foils

Notes
selection depends on window size, installation length, and insulant thickness in accordance with overview table or Technical Data Sheet

Approx. consumption	1.00 m/m
Format	length: 140 cm, 240 cm width: 22 mm
Colour shade	white, anthracite

Sto-Seal Bead Supra

Reveal bead with integrated PU joint sealing tape

Area of application
exterior, for permanent waterproofing of junctions to other building elements (window and door frames, shutter guide tracks) in facade insulation systems, suitable for windows (< 10 m²) which are recessed in the brickwork, flush with the brickwork, or situated in front of the brickwork, insulant thickness: ≤ 300 mm, not suitable for windows that are flush with the finished facade or protrude from it

Properties
with a PUR joint sealing tape for the absorption of three-dimensional movements, self-adhesive, made of plastic, with integrated glass fibre mesh, with a shadow gap, with a self-adhesive protective strip for fixing masking foils

Notes
selection depends on window size, installation length, and insulant thickness in accordance with overview table or Technical Data Sheet

Approx. consumption	1.00 m/m
Format	length: 155 cm, 260 cm width: 22 mm
Colour shade	white, anthracite

Sto-Seal Bead Perfect

Reveal bead with telescopic mechanism

Area of application
exterior, for permanent waterproofing of junctions to other building elements (window and door frames, shutter guide tracks) in facade insulation systems, suitable for windows (< 10 m²) that are set back or flush with the masonry, insulant thickness: ≤ 300 mm (set-back windows in masonry) or ≤ 160 mm (masonry-flush windows)

Properties
with a flexible telescope mechanism to absorb three-dimensional movements, self-adhesive, made of plastic, with integrated glass fibre mesh, with a visible white protective flap, with a self-adhesive protective strip for fixing masking foils

Notes
selection depends on window size, installation length, and insulant thickness in accordance with overview table or Technical Data Sheet, Recommendation: to improve the adhesion of the self-adhesive joint sealing tape, pre-treat the window frame with a primer pen, e.g. with the 3Ks primer pen.

Approx. consumption	1.0 m/m
Format	length: 140 cm, 240 cm width: 10 mm
Colour shade	white

Sto-Seal Bead Perfect

Reveal bead with telescopic mechanism

Area of application
exterior, for permanent waterproofing of junctions to other building elements (window and door frames, shutter guide tracks) in facade insulation systems, suitable for windows (< 10 m²) that are set back or flush with the masonry, insulant thickness: ≤ 300 mm (set-back windows in masonry) or ≤ 160 mm (masonry-flush windows)

Properties
with a flexible telescope mechanism to absorb three-dimensional movements, self-adhesive, made of plastic, with integrated glass fibre mesh, with a visible white protective flap, with a self-adhesive protective strip for fixing masking foils

Notes
selection depends on window size, installation length, and insulant thickness in accordance with overview table or Technical Data Sheet, Recommendation: to improve the adhesion of the self-adhesive joint sealing tape, pre-treat the window frame with a primer pen, e.g. with the 3Ks primer pen.

Approx. consumption	1.0 m/m
Format	length: 155 cm, 260 cm width: 10 mm
Colour shade	white

Sto-Render Stop Profile

Stop profile with stop and integrated glass fibre mesh

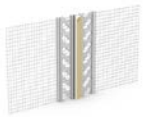
Area of application
exterior and interior, for producing neat render edges

Properties
made of plastic, with integrated glass fibre mesh

Approx. consumption	1.00 m/m
Format	smoothing ridge/layer thickness: 3, 6, 10, 15, 20 mm Length: 240 cm
Colour shade	white

Sto-Render Separation Profile

Profile to separate render coatings



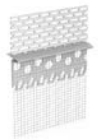
Area of application
for separating adjacent render coatings, for corner formation, for a layer thickness of 5 mm

Properties
made of plastic with integrated glass fibre mesh, variable angle formation possible, with two ridges for even smoothing

Approx. consumption	1.00 m/m
Format	length: 250 cm
Colour shade	white

Sto-Roof Vent Profile Air

Connection profile for roof ventilation with integrated glass fibre mesh



Area of application
exterior, for roof ventilation, as a roof connection between roof rafters in conjunction with external wall insulation systems

Properties
made of plastic, with integrated glass fibre mesh, ventilation cross-section ≥ 202 cm²/lrunning metre

Approx. consumption	1.00 m/m
Format	length: 250 cm
Colour shade	white

Sto-Parapet Profile

Connection profile with integrated glass fibre mesh

Area of application
exterior, for connection to parapet covering in facade insulation systems

Properties
made of plastic, with integrated glass fibre mesh, with a corresponding corner piece

Approx. consumption	1.00 m/m
Format	profile length: 230 cm corner piece: 10 x 10 cm
Colour shade	white

Sto-Transition Profile for Sheet Metal

Stop profile with integrated glass fibre mesh

Area of application
exterior, to form a transition at sheet metal flashing (flat roof, terrace, etc.) on facade insulation systems

Properties
made of plastic, with integrated glass fibre mesh, with plastic anchors for optional fixing in the insulant

Approx. consumption	1.00 m/m
Format	length: 250 cm
Colour shade	white

Sto-Edge Protection Profile 20 mm

Stop profile for render carrier boards

Area of application
as a bottom finish of render carrier boards with a thickness of 20 mm

Properties
made of plastic, with integrated glass fibre mesh

Approx. consumption	1.00 m/m
Format	drip edge: 3, 6, 10 mm Length: 240 cm
Colour shade	white

Joint formation, filling compounds

Sto-Expansion Joint Profile E

Profile for structural expansion joints where the wall surfaces are level

Area of application
exterior, for forming structural expansion joints between level wall surfaces in facade insulation systems, for joint widths of 20-30 mm

Properties
made of plastic, with a stable, mesh-reinforced, expanding joint cover, with a ridge for even smoothing, with integrated glass fibre mesh, weather-resistant, UV-resistant, can be combined with the Sto-Expansion Joint Cover E

Approx. consumption	1.00 m/m
Format	length: 250 cm
Colour shade	profile: white, expanding joint cover: dark grey

Sto-Expansion Joint Cover E

Additional profile for Sto-Expansion Joint Profile E

Area of application
exterior, for covering the expanding joint cover of the Sto-Expansion Joint Profile E, for vertical joints, for joint widths of 20-25 mm

Properties
made of plastic, absorbs movement, profile clips in, weather-resistant, UV-resistant

Approx. consumption	1.00 m/m
Format	length: 250 cm
Colour shade	white

Sto-Expansion Joint Profile E Cross Piece

Cross profile for structural expansion joints where the wall surfaces are level

Area of application
exterior, for forming structural expansion joints between level wall surfaces in facade insulation systems

Properties
made of plastic, with an expanding joint cover and integrated glass fibre mesh

Format	projection length: 30 cm each
Colour shade	dark grey, expanding joint cover

Sto-Expansion Joint Profile E T-Piece

T-profile for structural expansion joints where the wall surfaces are level

Area of application
exterior, for forming structural expansion joints between level wall surfaces in facade insulation systems

Properties
made of plastic, with an expanding joint cover and integrated glass fibre mesh

Format	projection length: 30 cm each
Colour shade	dark grey, expanding joint cover

Sto-Expansion Joint Profile E L-Piece

L-profile for structural expansion joints where the wall surfaces are level

Area of application
exterior, for forming structural expansion joints between level wall surfaces in facade insulation systems

Properties
made of plastic, with an expanding joint cover and integrated glass fibre mesh

Format	projection length: 30 cm each
Colour shade	dark grey, expanding joint cover

Sto-Expansion Joint Profile E External Corner Piece

External corner profile for structural expansion joints where the wall surfaces are level

Area of application
exterior, for forming structural expansion joints between level wall surfaces in facade insulation systems

Properties
made of plastic, with an expanding joint cover and integrated glass fibre mesh

Format	projection length: 30 cm each
Colour shade	dark grey, expanding joint cover

Sto-Expansion Joint Profile E Internal Corner Piece

Internal corner profile for structural expansion joints where the wall surfaces are level

Area of application
exterior, for forming structural expansion joints between level wall surfaces in facade insulation systems

Properties
made of plastic, with an expanding joint cover and integrated glass fibre mesh

Format	projection length: 30 cm each
Colour shade	dark grey, expanding joint cover

Sto-Expansion Joint Profile V

Profile for structural expansion joints where the wall surfaces are offset

Area of application
exterior, for forming structural expansion joints between offset wall surfaces in facade insulation systems, for joint widths of 20-30 mm

Properties
made of plastic, with a stable, mesh-reinforced, expanding joint cover, with a ridge for even smoothing, with integrated glass fibre mesh, weather-resistant, UV-resistant, can be combined with the Sto Expansion Joint Cover V

Approx. consumption	1.00 m/m
Format	length: 250 cm
Colour shade	profile: white, expanding joint cover: dark grey

Sto-Expansion Joint Tape

Compressed sealing tape made of impregnated flexible foam for structural expansion joints

Area of application
exterior, for waterproofing structural expansion joints, for joint widths (internal width plus movement capability) from 10-18 mm, 13-24 mm, 17-32 mm, and 28-40 mm

Properties
fully impregnated, self-expanding, self-adhesive

Notes
stress group BG 1 in accordance with DIN 18542, resistance to driving rain is only assured if the joint width is within the area of application (e.g. 13-24 mm), delivery form: roll, length of the roller cover depends on the tape width

Approx. consumption	Type 1	1.02 m/m
Format	width of the tape / joint width (area of application): 25 mm / 10-18 mm 30 mm / 13-24 mm 37 mm / 17-32 mm 47 mm / 28-40 mm	
Colour shade	anthracite, light grey	

Sto-Joint Sealing Tape Lento

Compressed sealing tape made of impregnated flexible foam

Area of application
for waterproofing connections between facade insulation systems and adjacent building elements, the slow expansion makes it particularly suitable for creating complex connections (e.g. for window sills), for the following joint widths (internal width plus movement capability). 2-6 mm, 3-9 mm, 5-12 mm, and 9-18 mm

Properties
resistant to driving rain, fully impregnated, slowly expanding, self-adhesive

Notes
resistance to driving rain is only assured if the joint width is within the area of application (e.g. 2-6 mm)

Approx. consumption	1.00 m/m
Format	width of the tape / joint width: 15 mm / 2-6 mm 15 mm / 3-9 mm 15 mm / 5-12 mm 25 mm / 9-18 mm
Colour shade	anthracite

Sto-Joint Sealing Tape 2D

Compressed joint sealing tape made of impregnated flexible foam

Area of application
for waterproofing connections to adjacent building elements on facade insulation systems, for the following joint widths (internal width plus movement capability): 2-6 mm and 5-12 mm, not suitable for joints and connections with large movements (e.g. structural expansion joints), for timber frame construction we recommend Sto-Joint Sealing Tape Lento

Properties
resistant to driving rain, impregnated on the sides, rapidly expanding, self-adhesive

Notes
resistance to driving rain is only assured if the joint width is within the area of application (e.g. 2-6 mm)

Approx. consumption	1.00 m/m
Format	width of the tape / joint width: 15 mm / 2-6 mm 15 mm / 5-12 mm
Colour shade	anthracite

Sto-Backing Rod

Cylindrical profile made of closed-cell polyethylene foam as joint backing strip

Area of application
for filling the backs of joints that are later to be filled with sealant, to prevent joint sealants from adhering on three sides

Properties
water-repellent, elastic

Approx. consumption	1.00 m/m
Format	cylindrical profile

StoSeal F 505

Joint sealant for facades, non-sag

Area of application
for waterproofing facade joints, window and door connections, for bonding fillet profiles

Properties
highly elastic, optimum non-sag properties, high adhesive strength, moisture-curing

Notes
also suitable for bonding joint sealing tapes in buildings, product is in accordance with EN 15651-1

Colour shade	grey, white
Application	with a suitable cartridge gun

StoColl Fix

Fixing aid and adhesive compound

Area of application
exterior, as a fixing aid, for example when using Sto-Turbofix, for bonding StoFix mounting elements, for bonding window sills on to a second waperproofing layer, for bonding sheet metal coverings onto StoDeco Facade Elements

Properties
single-component, very high initial adhesion, high adhesive strength

Approx. consumption	4.00 - 8.00 m²/piece
Format	cartridge: 290 ml
Colour shade	white
Application	with a suitable cartridge gun

Sto-Joint Filler WF

Acrylic sealant

Area of application
exterior and interior, for bonding interior profiles, for waterproofing joints with no or very little movement, not suitable for joints with moderate and large movements (e.g. window connection joints, expansion joints)

Properties
plasto-elastic, does not contain plasticisers which may be released from the product

Notes
the product is not resistant to constant water exposure and should be protected by a paint coat in exteriors

Format	310 ml cartridge
Colour shade	white
Application	with a suitable cartridge gun

Sto-Gun Foam SE

Single-component PU filler foam

Area of application
exterior, for foaming joints and holes in insulation boards of up to 5 mm in width, for filling holes and other cavities

Properties
free from CFCs, thermally insulating, moisture-curing, resistant to heat, water, and various chemicals, building material class: B1 in accordance with DIN 4102

Format	ø tin: 65 mm height: 330 mm content: 750 ml
Colour shade	grey

Sto-Gun Cleaner

Special cleaning agent on an acetone base

Area of application
exterior, for cleaning Sto-Filler Foam Pistols and removing uncured polyurethane foam

Notes
spray valve included

Format	ø tin: 65 mm Height: 250 mm content: 500 ml
Colour shade	transparent
Application	to be screwed onto the Sto-Filler Foam Gun

Mounting elements

StoFix Spiral

Mounting anchor made of plastic

Area of application
for subsequent fixing of lightweight building elements (bells, signs, etc.) in external wall insulation systems

Notes
not suitable for StoTherm Cell, observe the information in the technical documentation on StoFix mounting elements

Format	length: 60 mm

StoFix Cap

Mounting disc made of polypropylene

Area of application
exterior, to be bonded into the insulation board, as a mounting underlay for installing lightweight third-party components in external wall insulation systems without thermal bridging, for fixing building elements such as signs, shutter guiding rails etc., can be used in EPS and mineral wool insulation boards

Properties
made of high-quality plastic

Notes
only suitable for lightweight loads

Format	ø 90 mm ø usable area: 70 mm thickness: 10 mm
Colour shade	yellow
Application	bonding with StoColl Fix, mill out the insulation board with StoFix Cap milling tool

StoFix Zyrillo

Mounting cylinder made of polystyrene foam

Area of application
exterior, for bonding in EPS or mineral wool insulation boards, as a mounting underlay for installing lightweight third-party components in external wall insulation systems without thermal bridging, direct screw fixing within the mounting element possible

Properties
expanded polystyrene, volume weight: 170 kg/m³

Notes
may not be used if fixings have to undergo structural tests on this element, e.g. on railings, not building inspectorate approved, observe the information in the technical documentation on StoFix mounting elements

Format	available in two sizes ø 70 mm, usable area: 50 mm ø 125 mm, usable area: 105 mm thickness: 70 mm
Colour shade	white
Application	bonding with StoColl Fix, mill out the insulation board with StoFix Zyrillo milling tool

StoFix Ashlar ND Mini

Mounting ashlar made of polystyrene foam

Area of application
exterior and interior, for bonding onto the substrate, as a mounting underlay for installing lightweight third-party components in external wall insulation systems without thermal bridging, direct screw fixing within the mounting element possible, as a compression underlay for light loads

Properties
made of expanded polystyrene foam, volume weight: 170 kg/m³

Notes
may not be used if fixings have to undergo structural tests on this element, e.g. on railings, observe the information in the technical documentation on StoFix mounting elements

Approx. consumption	1.00 pcs./pcs.
Format	100 x 100 mm usable area: 80 x 80 mm thicknesses: 60-300 mm
Colour shade	white

StoFix Ashlar ND Midi

Mounting ashlar made of polystyrene foam

Area of application
exterior and interior, for bonding onto the substrate, as a mounting underlay for installing lightweight third-party components that are free from thermal bridges in external wall insulation systems and the StoSilent Direct acoustic system, direct screw fixing within the mounting element possible, as a compression underlay for light loads

Properties
made of expanded polystyrene foam, volume weight: 170 kg/m³

Notes
may not be used if fixings have to undergo structural tests on this element, e.g. on railings, observe the information in the technical documentation on StoFix mounting elements

Approx. consumption	1.00 pcs./pcs.
Format	150 x 100 mm usable area: 130 x 80 mm thicknesses: 60-300 mm
Colour shade	white

StoFix Ashlar Quick

Mounting ashlar made of polystyrene foam

Area of application
exterior and interior, for bonding onto the substrate, as a mounting underlay for installing lightweight third-party components that are free from thermal bridges in external wall insulation systems and the StoSilent Direct acoustic system, as a compression underlay for light loads

Properties
volume weight: 150 kg/m³, can be cut to size

Notes
building material class: B2 in accordance with DIN 4102, may not be used if fixings have to undergo structural tests on this element, e.g. on railings, observe the information in the technical documentation on StoFix mounting elements

Format	120 x 160 x 1000 mm
Colour shade	white

StoFix Ashlar HD Maxi

Mounting ashlar made of rigid polyurethane foam

Area of application
exterior, for bonding onto the substrate, as a compression underlay for heavy loads

Properties
made of rigid polyurethane foam (PUR), volume weight: 200 kg/m³

Notes
building material class: B2 in accordance with DIN 4102, design thermal conductivity λ: 0.049 W/(m*K), not building inspectorate approved, observe the information in the technical documentation on StoFix mounting elements

Approx. consumption	1.00 pcs./pcs.
Format	198 x 198 mm usable area: 198 x 198 mm thicknesses: 60-300 mm
Colour shade	beige

Supplementary products

Sto-Scaffold Plug

Plug made of impregnated flexible foam

Area of application
exterior, for waterproofing scaffold anchor holes in facade insulation systems

Properties
permanently elastic, made of impregnated flexible foam, with a plastic core, diffusion-open

Approx. consumption	1 pcs./pcs.
Colour shade	anthracite

Overview of StoFentra window sills

	StoFentra Uni
Basic profile	StoFentra Window Sill Profile
End profile	StoFentra Upstand Profile Uni
Properties	made of aluminium weather-proof and corrosion-resistant clipped-on end profiles resistant to driving rain up to 1200 Pa
Compensation of thermally induced length changes	very elastic expansion strip
Time of installation	before bonding the insulation boards
Accessories	StoFentra Window Sill Bracket StoFentra Anti-Drumming Covering Profi StoFentra Expansion Profile StoFentra Internal Corner Connector StoFentra External Corner Connector
Custom variants	natural anodised white powder-coated (RAL 9016) anthracite powder-coated (RAL 7016) coloured powder-coated (RAL colour shades)

StoFentra Window Sill Profile

StoFentra Window Sill Profile

Window sill basic profile made of coated aluminium

Area of application
in facade insulation systems, can be used in combination with the StoFentra Upstand Profile Uni or the StoFentra Sliding Stop Duo

Properties
weather-resistant, corrosion-resistant

Notes
RAL colour shades with mica or metallic effect and other special colours possible on request at a surcharge

Approx. consumption	1.00 m/m
Format	projection: 90, 110, 130, 150, 165, 180, 195, 210, 225, 240, 260, 280, 300, 320, 340, 360, 380, 400 mm
Colour shade	natural anodised, white powder-coated (RAL 9016), anthracite powder-coated (RAL 7016), powder-coated in RAL colours

StoFentra Uni

StoFentra Upstand Profile Uni

Aluminium profile with expansion strip

Area of application
in facade insulation systems, for inserting on to the StoFentra Window Sill Profile

Properties
resistant to driving rain up to 1200 Pa, with an expansion strip, with a T-shaped profile inserted at the side

Notes
RAL colour shades with mica or metallic effect and other special colours possible on request at a surcharge, also available as single items (order quantity is 0.5 pairs)

Approx. consumption	1.00 pair
Format	projection: 90-400 mm width: 25 mm
Colour shade	natural anodised, white powder-coated (RAL 9016), anthracite powder-coated (RAL 7016), coloured powder-coated in RAL colour shades

StoFentra Accessories

StoFentra Anti-Drumming Covering
Flexible foam tape

Area of application
for StoFentra Window Sill Profile, as a preventive measure for reducing noise (e.g. rain), for application by customer

Properties
self-adhesive

Format	width of the tape / max. window sill projection dimensions in mm: 50 / 150 80 / 240 100 / 300 130 / 380 160 / 500

StoFentra Window Sill Bracket
Accessories for Sto window sills

Area of application
for Sto window sills, for stabilising the window sills (wind loads)

Properties
two-part, with a stable aluminium angle bracket for fixing to the wall, with a self-adhesive plastic profile for fixing to the underside of the window sill, thermal decoupling, predetermines the correct window sill incline (5°)

Notes
select the bracket projection so that it ends approx. 6 cm in front of the drip edge of the window sill

Format	projection of the bracket: 95, 125, 170, 220, 300 mm

StoFentra Screws
Screws for fixing window sills

Properties
made of stainless steel

Approx. consumption	4.0 pcs./m
Colour shade	natural, white, anthracite, blended

StoFentra Expansion Profile
Profile with waterproofing for compensating changes in length of windows sills larger than 3 m

Area of application
as a connecting piece for window sills over 3 m

Properties
for tension-free installation of overlength sills

Notes
please note that coloured powder-coated versions are subject to longer delivery times

Format	50-500 mm
Colour shade	natural anodised, white powder-coated (RAL 9016), anthracite powder-coated (RAL 7016), powder-coated in RAL colours

StoFentra Internal Corner Connector
Profile for corner window sills for use in internal corners of buildings

Area of application
as a connecting piece for corner window sills (internal corner)

Format	50-500 mm
Colour shade	natural anodised, white powder-coated (RAL 9016), anthracite powder-coated (RAL 7016), powder-coated in RAL colours

StoFentra External Corner Connector
Profile for corner window sills for use in external corners of buildings

Area of application
as a connecting piece for corner window sills (external corner)

Notes
please note that coloured powder-coated versions are subject to longer delivery times

Format	50-500 mm
Colour shade	natural anodised, white powder-coated (RAL 9016), anthracite powder-coated (RAL 7016), powder-coated in RAL colours

Sto-Balcony Threshold

Sto-Balcony Threshold
Threshold made of aluminium chequer plate

Area of application
in the facade insulation system

Properties
made of aluminium, versions: coarse chequered, fine chequered, watertight as it is welded, weather-resistant

Notes
place an additional order for lateral upstands, The natural anodised colour shade is recommended for visual reasons. Other colour shades can cause the paint coat on the corrugation to abrade., the Sto-Balcony Threshold is also available in combination with the StoFentra Upstand Profile Profi

Approx. consumption	1.00 m/m
Format	length, dimensions in mm: 50 - 500
Colour shade	natural anodised, white powder-coated (RAL 9016), anthracite powder-coated (RAL 7016), powder-coated in RAL colours

Supplementary products

Sto-Window Sill Tape
Compressed sealing tape made of impregnated flexible foam

Area of application
especially for installing behind the Sto-Window Sill

Properties
resistant to driving rain in accordance with DIN 18542 BG 1, fully impregnated, slowly expanding, self-adhesive

Approx. consumption	1.00 m/m
Format	width of the tape / joint width: 20 mm / 1.5-3 mm
Colour shade	red

StoFlexyl
Organic filler for waterproofing and for protection from moisture

Area of application
exterior, as a primer, as a bonding mortar, as a filler, as a reinforcing compound, as an undercoat, for protection from moisture

Properties
provides protection against moisture in the plinth area and in the soil, good adhesion on bitumen substrates, highly versatile in use, sufficiently weather-resistant for use in plinth areas, crack extension: as reinforcement with mesh, approx. 2 %

Approx. consumption	3.90 kg/m² waterproofing (layer thickness [>=] 3.0 mm) 2.00 kg/m² bonding 0.50 kg/m² 2-fold slurry-applied moisture protection coat (approx. 0.7 mm) 1.30 kg/m² reinforcement
Colour shade	grey/white
Application	 must be mixed with StoFlexyl Cement / cement CEM I or CEM II A/LL or CEM II B/LL parts by weight 1.0 : 1.0, as a moisture protection coat: additionally dilute with approx. 10 % water

StoFlexyl Cement
Special cement for StoFlexyl

Area of application
exterior, in combination with StoFlexyl

Properties
special cement for StoFlexyl type CEM II B-LL 42.5 R

Approx. consumption	3.90 kg/m² waterproofing 2.00 kg/m² bonding 0.50 kg/m² primer and moisture protection coat 1.30 kg/m² reinforcement
Appearance	white Portland cement
Colour shade	white
Application	see the Technical Data Sheet for StoFlexyl

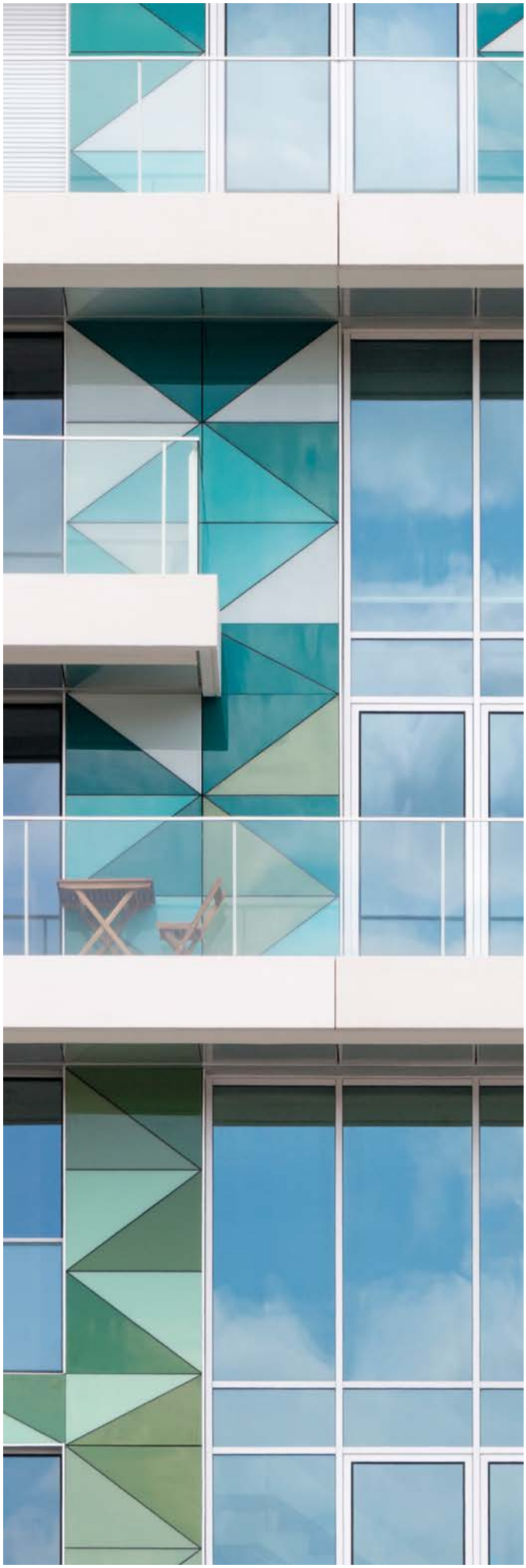
StoGuard Mesh
Self-adhesive, flexible reinforcing mesh

Area of application
to produce a second waterproofing layer underneath window sills in combination with StoFlexyl

Properties
alkali-resistant, plasticiser-free, self-adhesive, flexible, good adaptation to the substrate

Approx. consumption	1 m/m
Format	mesh width: 4 x 4 mm width: 100, 250 mm
Colour shade	white

Ventilated rainscreen cladding systems



Residential estate Residence Unik - Zac Seguin, Paris, FR
Photo: Manuel Panaget, Le Mesnil-le-Roi, FR

StoVentec: an overview

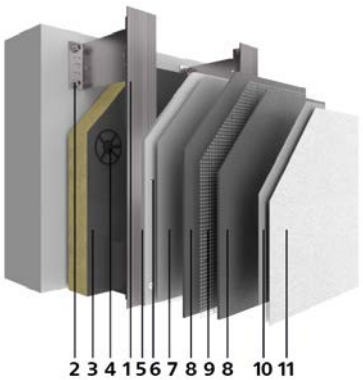
System	insulating layer		Carrier layer	Reinforcing layer	Material layer		
	Insulant	Conductivity group	Sub-construc-tion	Base coat	Surfaces	Fixing of the surface	Additional material options
StoVentec R	 Mineral wool, with nonwoven fabric	From WLG 032	wall bracket, T-profile and carrier board	 mineral or organic base coats	 StoSignature, StoEcoshape, StoCleyer B	non-visible	StoDeco can be freely combined with other facade materials
StoVentec S			wall bracket, T-profile and carrier board		 StoStone	non-visible	StoDeco, can be freely combined with other facade materials
StoVentec C			wall bracket, T-profile and carrier board		 StoCera, StoBrick	non-visible	StoDeco, can be freely combined with other facade materials
StoVentec M			wall bracket, T-profile and carrier board		 StoGlass Mosaic	non-visible	StoDeco, can be freely combined with other facade materials
StoVentec Glass			wall bracket, T-profile and agraffe profile		 StoVentec Glass	non-visible	Combination with other StoVentec systems possible

■■ excellent
■ good

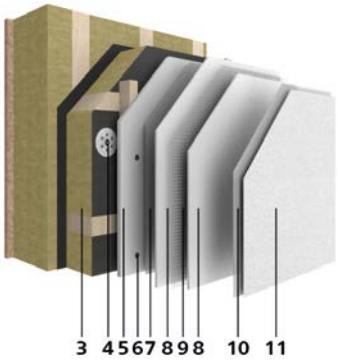
System properties					
Reaction to fire 	**Mechanical resistance** 	**Installation possible in all weathers**	**Curved facades, 3D facades**	**Sound insulation**	**Joint pattern**
Up to A2-s1, d0 in accordance with EN 13501-1	very high impact resistance, tested stability during earthquakes	■ surface to be applied on site	■■	tested sound insulation improvement of up to 12 dB	seamless
	very high impact resistance, tested stability during earthquakes	■ surface to be applied on site	■■	tested sound insulation improvement of up to 14 dB	seamless
	very high impact resistance, tested stability during earthquakes	■ surface to be applied on site	■■	tested sound insulation improvement of minimum 12 dB	seamless
	high impact resistance, tested stability during earthquakes	■ surface to be applied on site	■■	tested sound insulation improvement of minimum 12 dB	seamless
Up to A2-s1, d0 in accordance with EN 13501-1	high impact resistance, tested stability during earthquakes and in case of blast loads	■■ factory-produced panels	■	tested sound insulation improvement of up to 18 dB	accentuated joints

StoVentec R
Seamless, rainscreen cladding facade with render

System advantages
- benefits in terms of building physics thanks to rear ventilation of the facade (humidity, sound and thermal protection)
- almost unlimited creative possibilities using colours, textures, and materials
- large seamless facade surfaces possible
- unevenness can be levelled by means of an adjustable sub-construction
- high reliability due to system solution with matched components
- sub-construction consisting of a wall bracket and vertical carrier profile (StoVentro Y): curved forms possible



1 Sub-construction
2 Anchorage
3 Insulation
4 Fixing
5 Carrier board
6 Fixing of the carrier boards
7 Priming coat
8 Base coat
9 Reinforcement
10 Intermediate coat
11 Finishing coat
12

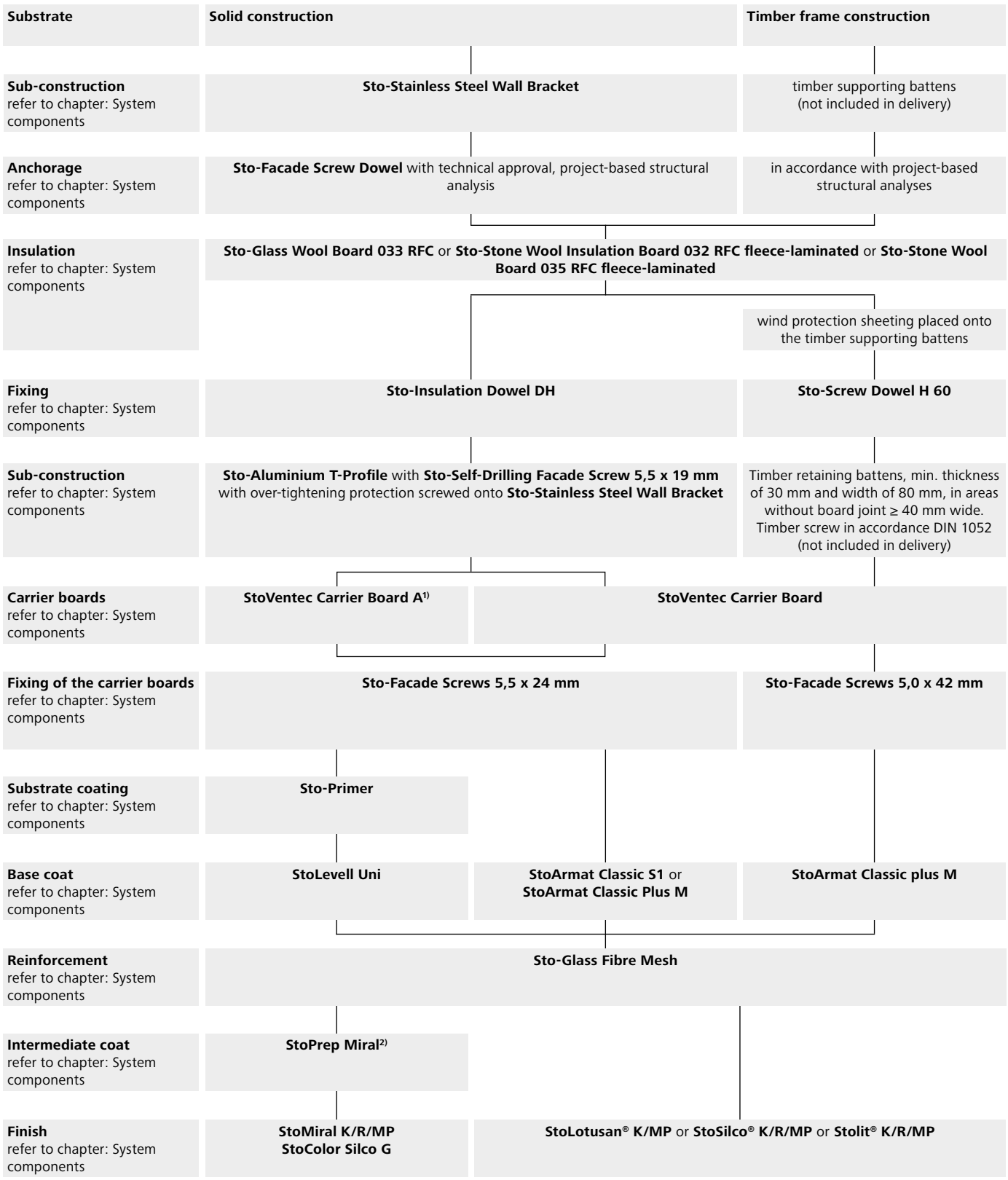


1 Sub-construction not included in the scope of delivery
2 Anchorage in accordance with project-based structural analyses
3 Insulation
4 Fixing
5 Carrier boards
6 Fixing of the carrier boards
7 Priming coat
8 Base coat
9 Reinforcement
10 Intermediate coat
11 Finishing coat
12

Overview StoVentec R

Area of application	▪ new and existing buildings, installation limits in accordance with national building regulations ▪ especially suitable for fine surface textures ▪ sub-construction consisting of a wall bracket and carrier profile (StoVentro Y): large system build-ups are possible, e.g. > 60 cm, suitable for the passivhaus standard with a certified sub-construction
Substrate	▪ masonry, e.g. brick, calcium silicate masonry units, cellular concrete, fair-faced masonry and masonry veneer ▪ concrete and concrete slab construction (three-layer concrete slabs) ▪ timber frame construction ▪ lightweight construction
Fixing	▪ in timber frame construction with timber supporting battens ▪ sub-construction consisting of a wall bracket and carrier profile (StoVentro Y): easily adjustable sub-construction made of a stainless steel and aluminium combination with the lowest thermal bridging coefficients
Thermal protection	▪ mineral wool faced with nonwoven ▪ system implementation also possible without insulation ▪ sub-construction consisting of a wall bracket and carrier profile (StoVentro Y): large insulant thicknesses possible
Reaction to fire	▪ class B-s1, d0 in accordance with EN 13501-1 with StoVentec Carrier Board ▪ class A2-s1, d0 in accordance with EN 13501-1 with StoVentec Carrier Board A and a mineral or special organic coating build-up ▪ class A2-s1, d0 in accordance with EN 13501-1 with StoVentec Carrier Board S and a mineral or special organic coating build-up ▪ Fire barriers may be required in accordance with national specifications.
Impact resistance	▪ highly resistant to mechanical stress
Sound insulation	▪ improvement of up to 12 dB (A) in the sound reduction index
Other properties	▪ very light, flexible carrier board made of expanded glass granulate with a low thermal expansion coefficient ▪ special protection against algae and fungi with a double coat of paint ▪ optional Lotus-Effect® Technology ▪ optional Dryonic Technology for protection against microorganisms and for fastest possible drying ▪ sub-construction consisting of a wall bracket and vertical carrier profile (StoVentro Y): resistant to earthquakes
Design options	▪ Organic renders, silicone resin renders, renders with Lotus-Effect® Technology, mineral renders, and silicate renders in stippled render texture, rilled render texture, or in free-style textured render ▪ can be combined with three-dimensional facade elements made of Verolith granulate
Colour spectrum	▪ tintable in accordance with the StoColor System ▪ no limitation to the light reflectance value if using an organic build-up
Application	▪ complete selection of detail solutions ▪ simple and fast installation due to light panel weight
Approvals/standards	The relevant European and/or national approvals apply.

System description of StoVentec R



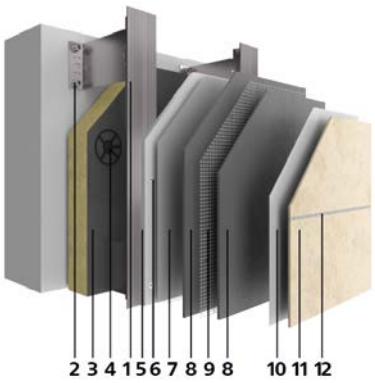
1) depending on national requirements, coat the rear side of the board with StoVentec Prep A, 2) intermediate coat if necessary

StoVentec S

Seamless, rainscreen cladding facade with a natural stone tiles

System advantages

- for the design of individual, high-quality natural stone surfaces
- benefits in terms of building physics thanks to rear ventilation of the facade (humidity, sound and thermal protection)
- unevenness can be levelled by means of an adjustable sub-construction
- lowest thermal bridging coefficient due to bespoke sub-construction made from a combination of stainless steel and aluminium
- passivhaus-certified sub-construction possible that is free from thermal bridges
- highly weather-resistant
- very high crack resistance



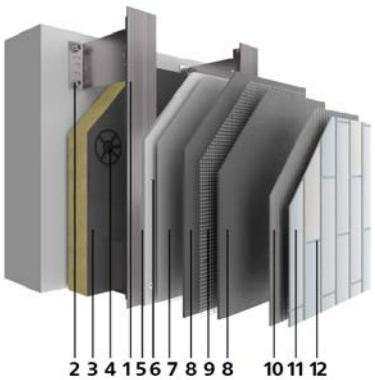
1 Sub-construction
2 Anchorage
3 Insulation
4 Fixing
5 Carrier board
6 Fixing of the carrier boards
7 Priming coat
8 Base coat
9 Reinforcement
10 Bonding
11 Facade cladding
12 Pointing

Overview StoVentec S

Area of application	▪ new and existing buildings, installation limits in accordance with national building regulations ▪ suitable for passivhaus standard with a certified sub-construction ▪ thick system build-ups (e.g. > 60 cm) possible
Substrate	▪ masonry, e.g. brick, calcium silicate masonry units, cellular concrete, fair-faced masonry and masonry veneer ▪ concrete and concrete slab construction (three-layer concrete slabs) ▪ timber frame construction
Fixing	▪ easily adjustable sub-construction made of a stainless steel/aluminium combination ▪ in timber frame construction with timber supporting battens
Thermal protection	▪ mineral wool faced with nonwoven ▪ thick insulant layer possible ▪ system implementation also possible without insulation
Reaction to fire	13501-1 when using the StoVentec Carrier Board A or in accordance with ▪ in a defined system build-up, class A2-s1, d0 in accordance with EN 13501-1 when using the StoVentec Carrier Board S, or in accordance with national standards when using the StoVentec Carrier Board ▪ fire barriers may be required in accordance with national specifications
Impact resistance	▪ highly resistant to mechanical stress
Design options	▪ natural stone tiles ▪ surface polished, honed, sand-blasted, brushed, edges bevelled as standard (also without bevel on request) ▪ can be combined with three-dimensional facade elements made of Verolith granulate
Colour spectrum	▪ extensive selection of colours due to various natural stones
Application	▪ complete selection of detail solutions ▪ fast installation
Approvals/standards	The relevant European and/or national approvals apply.

StoVentec C
Seamless, rainscreen cladding facade with ceramics

System advantages
- benefits in terms of building physics thanks to rear ventilation of the facade (humidity, sound and thermal protection)
- unevenness can be levelled by means of an adjustable sub-construction
- lowest thermal bridging coefficient due to bespoke sub-construction made from a combination of stainless steel and aluminium
- passivhaus-certified sub-construction possible that is free from thermal bridges
- highly weather-resistant
- very high crack resistance



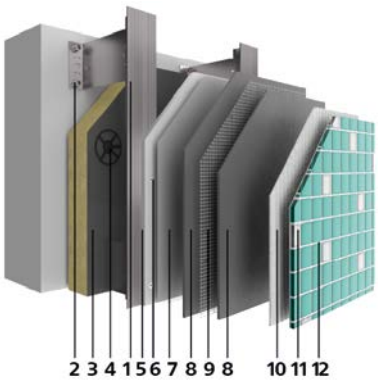
1 Sub-construction
2 Anchorage
3 Insulation
4 Fixing
5 Carrier boards
6 Fixing of the carrier boards
7 Priming coat
8 Base coat
9 Reinforcement
10 Bonding
11 Facade cladding
12 Pointing

Overview StoVentec C

Area of application	▪ new and existing buildings, installation limits in accordance with national building regulations ▪ suitable for passivhaus standard with a certified sub-construction ▪ thick system build-ups (e.g. > 60 cm) possible
Substrate	▪ masonry, e.g. brick, calcium silicate masonry units, cellular concrete, fair-faced masonry and masonry veneer ▪ concrete and concrete slab construction (three-layer concrete slabs) ▪ timber frame construction
Fixing	▪ easily adjustable sub-construction made of a stainless steel/aluminium combination ▪ in timber frame construction with timber supporting battens
Thermal protection	▪ mineral wool faced with nonwoven ▪ thick insulant layer possible ▪ system implementation also possible without insulation
Reaction to fire	13501-1 when using the StoVentec Carrier Board A or in accordance with ▪ in a defined system build-up, class A2-s1, d0 in accordance with EN 13501-1 when using the StoVentec Carrier Board S, or in accordance with national standards when using the StoVentec Carrier Board ▪ fire barriers may be required in accordance with national specifications
Impact resistance	▪ highly resistant to mechanical stress
Design options	▪ brick slips, ceramics ▪ can be combined with three-dimensional facade elements made of Verolith granulate
Colour spectrum	▪ extensive selection of colours, see e.g. brick range
Application	▪ complete selection of detail solutions ▪ fast installation
Approvals/standards	The relevant European and/or national approvals apply.

StoVentec M
Seamless, rainscreen cladding facade with glass mosaic

System advantages
- for the design of custom, shiny surfaces made of glass mosaic
- benefits in terms of building physics thanks to rear ventilation of the facade (humidity, sound and thermal protection)
- curved shapes possible
- great freedom of design due to combinations of colours and formats with no limitation to the light reflectance value
- unevenness can be levelled by means of an adjustable sub-construction
- lowest thermal bridging coefficient due to bespoke sub-construction made from a combination of stainless steel and aluminium
- passivhaus-certified sub-construction possible that is free from thermal bridges
- highly weather-resistant
- very high crack resistance
- high reliability due to system solution with matched components



1 Sub-construction
2 Anchorage
3 Insulation
4 Fixing
5 Carrier boards
6 Fixing of the carrier boards
7 Priming coat
8 Base coat
9 Reinforcement
10 Bonding
11 Facade cladding
12 Pointing

Overview StoVentec M

Area of application	▪ new and existing buildings, installation limits in accordance with national building regulations ▪ suitable for passivhaus standard with a certified sub-construction ▪ thick system build-ups (e.g. > 60 cm) possible
Substrate	▪ masonry, e.g. brick, calcium silicate masonry units, cellular concrete, fair-faced masonry and masonry veneer ▪ concrete and concrete slab construction (three-layer concrete slabs) ▪ timber frame construction
Fixing	▪ easily adjustable sub-construction made of a stainless steel/aluminium combination ▪ in timber frame construction with timber supporting battens
Thermal protection	▪ mineral wool faced with nonwoven ▪ thick insulant layer possible ▪ system implementation also possible without insulation
Reaction to fire	13501-1 when using the StoVentec Carrier Board A or in accordance with ▪ in a defined system build-up, class A2-s1, d0 in accordance with EN 13501-1 when using the StoVentec Carrier Board S, or in accordance with national standards when using the StoVentec Carrier Board ▪ fire barriers may be required in accordance with national specifications
Impact resistance	▪ shock-proof and impact-resistant
Design options	▪ glass mosaic ▪ glossy surface with a depth effect ▪ can be combined with three-dimensional facade elements made of Verolith granulate
Colour spectrum	▪ extensive selection of brilliant and intense colour shades
Application	▪ complete selection of detail solutions ▪ fast installation ▪ curves can be implemented
Approvals/standards	The relevant European and/or national approvals apply.

System description StoVentec S, C, M

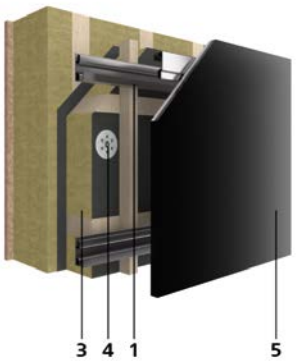
Substrate	**Solid construction**	**Timber frame construction**
Sub-construction refer to chapter: System components	**Sto-Stainless Steel Wall Bracket**	timber supporting battens (not included in delivery)
Anchorage refer to chapter: System components	**Sto-Facade Screw Dowel** with technical approval, project-based structural analysis	in accordance with project-based structural analyses
Insulation refer to chapter: System components	**Sto-Glass Wool Board 032 RFC** or **Sto-Stone Wool Insulation Board 033 RFC fleece-laminated** or **Sto-Stone Wool Board 035 RFC fleece-laminated**	wind protection sheeting placed onto the timber supporting battens
Fixing refer to chapter: System components	**Sto-Insulation Dowel DH**	**Sto-Screw Dowel H 60**
Sub-construction refer to chapter: System components	**Sto-Aluminium T-Profile** with **Sto-Self-Drilling Facade Screw 5,5 x 19 mm** with over-tightening protection screwed onto **Sto-Stainless Steel Wall Bracket**	Timber retaining battens, min. thickness of 30 mm and width of 80 mm, in areas without board joint ≥ 40 mm wide. Timber screw in accordance DIN 1052 (not included in delivery)
Carrier boards refer to chapter: System components	**StoVentec Carrier Board A**[1)]	**StoVentec Carrier Board**
Fixing of the carrier boards refer to chapter: System components	**Sto-Facade Screws 5,5 x 24 mm**	**Sto-Facade Screws 5,0 x 42 mm**
Substrate coating refer to chapter: System components	**Sto-Primer**	
Base coat refer to chapter: System components	**StoLevell Uni**	
Reinforcement refer to chapter: System components	**Sto-Glass Fibre Mesh**	
Bonding refer to chapter: System components	**StoColl KM**	
Facade claddings refer to chapter: System components	**Sto-Natural Stone Tiles (StoVentec S)** or **ceramic cladding (StoVentec C)** or **StoGlass Mosaic (StoVentec M)**	
Pointing refer to chapter: System components	**StoColl FM-S** or **FM-K**	

[1)] Depending on national requirements, coat the rear side of the board with StoPrep Ventec A

StoVentec Glass
Rainscreen cladding facade with accentuated joints and glass

System advantages
- exclusive glass panel system with non-visible fixing
- panel facade with accentuated joints for the decorative design of high-quality glass surfaces (individual formats available)
- benefits in terms of building physics thanks to rear ventilation of the facade (humidity, sound and thermal protection)
- smooth surface resistant to dirt, making for low maintenance costs regarding cleaning
- unevenness can be levelled by means of an adjustable sub-construction
- fast installation in all weather conditions due to prefabrication at the factory, can simply be hung on agraffe profiles
- high reliability due to system solution with matched components

1 Sub-construction
2 Anchorage
3 Insulation
4 Fixing
5 Glass panel



1 Sub-construction
2 Anchorage in accordance with project-based structural analyses
3 Insulation
4 Fixing
5 Facade cladding

Overview StoVentec Glass

Area of application	▪ new and existing buildings, installation limits in accordance with national building regulations ▪ thick system build-ups (e.g. > 60 cm) possible ▪ exterior and interior
Substrate	▪ masonry, e.g. brick, calcium silicate masonry units, cellular concrete, fair-faced masonry and masonry veneer ▪ concrete and concrete slab construction (three-layer concrete slabs) ▪ timber frame construction
Fixing	▪ by agraffe profiles, non-visible ▪ easily adjustable sub-construction made of a stainless steel-aluminium combination with the lowest thermal bridging coefficients ▪ in timber frame construction with timber supporting battens
Thermal protection	▪ mineral wool faced with nonwoven ▪ thick insulant layer possible ▪ system implementation also possible without insulation
Reaction to fire	▪ class B-s1, d0 in accordance with EN 13501-1, limited combustibility when using the StoVentec Glass glass panel ▪ class A2-s1, d0 in accordance with EN 13501-1, non-combustible when using the StoVentec Glass A glass panel ▪ Fire barriers may be required in accordance with national specifications.
Impact resistance	▪ high impact resistance ▪ high stability in case of blast loads ▪ low risk of injury in the event of glass breakage due to bonded tempered safety glass
Other properties	▪ resistant to earthquakes
Design options	▪ smooth, shiny surface made of tempered safety glass with a depth effect ▪ panel facade with joints as design elements ▪ formats available up to 6.5 m² ▪ other glass variants on request
Colour spectrum	▪ broad colour shade variety – RAL colour shades, screen printing, logos, etc. ▪ no limitation to the light reflectance value
Application	▪ factory-produced panels are inserted into the sub-construction on the construction site ▪ fast installation possible in all weathers ▪ complete selection of detail solutions
Approvals/standards	The relevant European and/or national approvals apply.

System description StoVentec Glass

Substrate	**Solid construction**	**Timber frame construction**
Sub-construction refer to chapter: System components	**Sto-Stainless Steel Wall Bracket**	timber supporting battens (not included in delivery)
Anchorage refer to chapter: System components	**Sto-Facade Screw Dowel** with technical approval, project-based structural analysis	in accordance with project-based structural analyses
Insulation refer to chapter: System components	**Sto-Glass Wool Board 032 RFC** or **Sto-Stone Wool Insulation Board 033 RFC fleece-laminated** or **Sto-Stone Wool Board 035 RFC fleece-laminated**	wind protection sheeting placed onto the timber supporting battens
Fixing refer to chapter: System components	**Sto-Insulation Dowel DH**	**Sto-Screw Dowel H 60**
Sub-construction refer to chapter: System components	**Sto-Aluminium T-Profile** with **Sto-Self-Drilling Facade Screw 5,5 x 19 mm** with over-tightening protection screwed onto **Sto-Stainless Steel Wall Bracket**	Timber retaining battens, min. thickness of 30 mm and width of 80 mm, in areas without board joint ≥ 40 mm wide. Timber screw in accordance DIN 1052 (not included in delivery)
	StoVentec Aluminium Agraffe Profiles with **Sto-Self-Drilling Facade Screw 5,5 x 19 mm** without over-tightening protection screwed onto T-profile	**StoVentec Aluminium-Agraffe Profile** screwed onto the retaining batten frame with a timber screw in accordance with structural analyses (not included in delivery)
Facade claddings refer to chapter: System components	**StoVentec Glass**	

System components

Sub-Construction for StoVentec Facade

Sub-construction for ventilated rainscreen cladding systems

Application	Various technically approved screw-in facade anchors are available for, anchoring the sub-construction. The anchors generally have a, ø ≥ 10 mm and must be selected according to the wall, material and type of sub-construction on a project-specific basis. A, structural analysis is required for this.

StoVentro Bracket L200 GP

Sub-construction element in StoVentec facades

Area of application
for forming sliding points to absorb the effect of wind loads on the facade system

Properties
2 rows of holes, each with 2 oblong holes and 2 round holes, for fixing the Sto-Aluminium T- and L-profiles, with marking grooves for quick alignment of the carrier profiles and for dimensioning the wall bracket, made of aluminium: quality EN AW-6063 T66, tolerance in accordance with EN 755-9

Notes
order the optional thermal separating element separately

Format	anchor holes: 1 oblong hole: 11 mm x 18 mm, 2 oblong holes: 6.5 mm x 12 mm Height: 95.5 mm material thickness at a projection of 40-180 mm: 3.0 / 3.2 mm material thickness at a projection of 200-320 mm: 4.0 / 4.2 mm
Application	if necessary, anchor in the substrate with a thermal separating element

StoVentro Bracket L200 FP

Sub-construction element in StoVentec facades

Area of application
for forming fixed and sliding points to absorb the dead weight of the facade system and the impact from wind loads

Properties
2 rows of holes, each with 2 oblong holes and 4 round holes, for fixing the Sto-Aluminium T- and L-profiles, with marking grooves for quick alignment of the carrier profiles and for dimensioning the wall bracket, made of aluminium: quality EN AW-6063 T66, tolerance in accordance with EN 755-9

Notes
order the optional thermal separating element separately

Format	anchor holes: 3 oblong holes: 11 mm x 18 mm, 2 oblong holes: 6.5 mm x 12 mm height: 135 mm material thickness at a projection of 40-180 mm: 3.0 / 3.2 mm material thickness at a projection of 200-320 mm: 4.0 / 4.2 mm
Application	if necessary, anchor in the substrate with a thermal separating element

StoVentro Thermostop L100/L150

Thermal separating element between wall brackt and wall

Area of application
thermal separating element between wall bracket and wall, to reduce thermal bridges, geometrically matched to the StoVentro Bracket L100 and StoVentro Bracket L150 wall brackets

Properties
made of rigid PVC, with punched holes, thermal conductivity: 0.08-0.09 W/(m*K)

Approx. consumption	1 item/wall bracket
Format	material thickness: 6 mm height: 130 mm, for fixed point height: 75 mm, for sliding point width: 50 mm
Colour shade	white

Sto-Stainless Steel Corner Bracket

Sub-construction element for StoVentec facades

Area of application
for the formation of fixed and sliding points, for dead weight absorption of the facade system, for the absorption of wind loads, for use in corner detail solutions, verify the project-specific structural engineering

Properties
made of stainless steel: available in material no. 1.4301 and material no. 1.4404, compressive strength class S235 in accordance with ENEN 10088-2, tolerance in accordance with EN ISO 9445, with integrated retainer, with two oblong holes and three round holes for the formation of fixed and sliding points, for fixing the profiles: Sto-Aluminium-T-Profile, Sto-Aluminium-L-Profile

Notes
other corner bracket sizes are available on request, delivery time on request, consumption depends on the structural analysis

Format	anchor holes: one oblong hole: 11 mm x 15 mm, two round holes ø 11 mm height: 136 mm material thickness: 2.5 mm available lengths, dimensions in mm: 440, 475, 535, 595
Application	anchored into the substrate

Sto-Stainless Steel Lintel Bracket

Sub-construction element for StoVentec facades

Area of application
for the formation of fixed and sliding points, for dead weight absorption of the facade system, for the absorption of wind loads, for use in building openings, e.g. windows for formation of a lintel or reveal, verify the project-specific structural engineering

Properties
made of stainless steel: available in material no. 1.4301 and material no. 1.4404, compressive strength class S235 in accordance with ENEN 10088-2, tolerance in accordance with EN ISO 9445, with integrated retainer, with an oblong and a round hole for the formation of fixed and sliding points, for fixing the profiles: Sto-Aluminium-T-Profile, Sto-Aluminium-L-Profile

Notes
other lintel bracket sizes are available on request, special articles on request, delivery time on request, consumption depends on the structural analysis

Format	anchor holes: two round holes, ø 11 mm Height: 73 mm material thickness: 2.5 mm available lengths, dimensions in mm: 281, 290, 560
Application	anchored into the substrate

Sto-Aluminium-T- and -L-Profile

Profiles to support the StoVentec Carrier Board

Area of application
the StoVentec Facade ventilated rainscreen cladding system is fixed to a sub-construction consisting of aluminium profiles, horizontal or vertical carrier profile to accommodate the StoVentec Carrier Board (StoVentec Carrier Board facade) or facade panels (StoVentec Panel facade)

Properties
made of aluminium: quality EN AW-6063 T66, tolerance in accordance with EN 755-9

Notes
delivery time on request, special articles on request, minimum order quantity: complete packaging units

Format	T-profile: 90 x 52.7 x 2.7 mm (flange) / 2.4 mm (blade) L-profile: 50 x 40 x 2.7 mm rod lengths: 3 m or 6 m respectively

StoVentec Aluminium Agraffe Profile

Agraffe profile for fitting StoVentec panels

Area of application
horizontal agraffe profile (wall agraffe on a vertical T-profile) to absorb the Sto-Board Carrier Profile or the Sto-Stone Carrier Profile, for installing StoVentec panels, screwed onto the Sto-Aluminium T-Profile or vertical timber batten frame

Properties
made of aluminium: quality EN AW-6063 T66, tolerance in accordance with EN 755-9

Notes
installation in accordance with structural analysis with approved retaining elements, delivery form: item

Approx. consumption	1.00 m/m
Format	agraffe profile (wall agraffe): 30.6 mm wide, 65 mm high, 3 or 6 m rod lengths material thickness: 3.0 mm (rear panel of the agraffe profile for screw connection on the Sto-Aluminium-T-profile) board carrier profile: width 28.8 mm, height 62.5 mm, rod length 6 m

Sto-Self-Drilling Facade Screw

For connecting T- and L-profiles to wall brackets

Area of application
connecting the T- and L-profiles to the wall brackets

Properties
with a hexagon head, made of stainless steel

Notes
use the Sto-Self-Drilling Facade Screw with over-tightening protection for connecting T- or L-profiles with the wall bracket, and for connecting the agraffe profile with the T-profile, the Sto-Self-Drilling Facade Screw without over-tightening protection is only required to prevent the StoVentec ARTline Inlay panels from shifting sideways, delivery time on request, special articles on request, minimum order quantity: complete packaging units

Approx. consumption	2 pcs./wall bracket
Format	5.5 x 19 mm

StoVentro Screw 108

Drilling screw for connecting T-profiles and L-Profiles to the wall brackets

Area of application
drilling screw for joining Sto-Aluminium-T-Profiles and Sto-Aluminium-L-Profiles to wall brackets made of aluminium or stainless steel

Properties
made of stainless steel: material no. 1.4578, drive: external drive hexagon SW8, internal drive SR2, clamp area: 3.5 - 8 mm, high drilling performance: up to 5 mm in aluminium, drilling screw for sliding points and fixed points, adapted flange: 13 mm

Notes
insert the drilling screw in the specified clamp area to join the T-profiles and L-profiles to wall brackets, observe the transverse and longitudinal edge distances during installation

Format	5.5 x 22 mm

Anchorage

Sto-Screw-In Anchor VF BEZ-08 10

Screw-in anchors for RSC wall brackets

Area of application
for anchorage of metal sub-constructions in the substrate

Properties
anchor bolt made of stainless steel for use in non-cracked and cracked concrete

Notes
delivery time on request

Format	ø 10 mm length: 95 mm
Application	hexagon drive SW 17, use a high-performance anchor driver, the anchor must be fixed in the load-bearing substrate to a depth of at least 60 mm, drill-hole depth: ≥ 70 mm, anchorage depth: ≥ 60 mm

Sto-Frame Anchor VF UEZ-01 10

Frame anchors for RSC wall brackets

Area of application
for anchorage of metal sub-constructions in the substrate

Properties
anchor for cellular concrete with collared screw made of galvanised steel, for concrete, solid brick, solid sand-lime brick, solid masonry made of lightweight concrete, vertical coring bricks, lightweight vertical coring bricks, cored sand-lime bricks, hollow blocks made of lightweight concrete and no-fines lightweight concrete

Notes
delivery time on request

Format	ø 10 mm
Colour shade	identifying colour: red
Application	drive with bit type Torx T40, use a high-performance anchor driver, the anchor must be fixed in the load-bearing substrate to a depth of at least 70 mm, drill-hole depth ≥ 80 mm, anchorage depth ≥ 70 mm

Sto-Frame Anchor VF BVEZ-01 10

Frame anchors for RSC wall brackets

Area of application
for anchorage of metal sub-constructions in the substrate

Properties
anchor for cellular concrete with collared screw made of galvanised steel, for concrete, solid brick, solid sand-lime brick, solid masonry made of lightweight concrete

Format	ø 10 mm
Colour shade	identifying colour: blue
Application	drive with bit type Torx T40, use a high-performance anchor driver, the anchor must be fixed in the load-bearing substrate to a depth of at least 40 mm, concrete: drill-hole depth ≥ 50 mm, anchorage depth ≥ 40 mm, masonry: drill-hole depth ≥ 60 mm, anchorage depth ≥ 50 mm

Insulation

Sto-Stone Wool Insulation Board 033 RSC with nonwoven fabric backing

Insulation board made of mineral wool in accordance with EN 13162

Area of application
exterior, as an insulation board for StoVentec facades and ceiling claddings

Properties
thermal conductivity group 033, non-combustible, melting point: > +1000 °C, fire classification A1 in accordance with EN 13501-1, black nonwoven fabric facing on one side, water-repellent finish throughout, type of application: WAB (exterior insulation of walls behind cladding) in accordance with DIN 4108-10, sound-insulating, diffusion-open, recyclable, single-anchor technique possible with a thickness of ≥ 100 mm

Notes
article numbers/prices on request, other thicknesses/qualities on request

Approx. consumption	1.00 m²/m²
Format	100 x 62.5 cm
Application	anchor-fixed to substrate

Sto-Stone Wool Insulation Board 035 RSC with nonwoven fabric backing

Insulation board made of mineral wool in accordance with EN 13162

Area of application
exterior, as an insulation board for StoVentec facades and ceiling claddings

Properties
thermal conductivity group 035, non-combustible, melting point: > +1000 °C, fire classification A1 in accordance with EN 13501-1, black nonwoven fabric facing on one side, permanently water-repellent, type of application: WAB (exterior insulation of walls behind cladding) in accordance with DIN 4108-10, sound-insulating, diffusion-open, recyclable, single-anchor technique possible with a thickness of ≥ 100 mm, quick and easy to apply

Notes
approval and release is required for the single-anchor technique, packaging unit: bundle, amount/bundle of m² depends on board thickness, minimum order quantity 25 m³

Approx. consumption	1.0 m²/m²
Format	100 x 62.5 cm
Application	anchor-fixed to substrate

Sto-Glass Wool Board 032 RSC

Insulation board made of mineral wool in accordance with EN 13162

Area of application
exterior, as an insulation board for StoVentec facades and ceiling claddings

Properties
thermal conductivity group 032, non-combustible, can be used at temperatures of up to +150 °C, fire classification A1 in accordance with EN 13501-1, black nonwoven fabric facing on one side, water-repellent finish throughout, sound-insulating, diffusion-open, recyclable, unlimited use on buildings up to a height of 100 m

Notes
article numbers/prices on request, other thicknesses/qualities on request

Approx. consumption	1.00 m²/m²
Format	125 x 60 cm
Application	anchor-fixed to substrate

Fixing

Sto-Insulation Fastener DH

Hammer-in anchor for insulants in ventilated rainscreen cladding systems

Area of application
exterior, for fixing lightweight insulants for ventilated rainscreen cladding systems to facades and undersides, all-purpose use for all building materials, for concrete, solid and perforated building materials, no-fines lightweight concrete, cellular concrete - use category A, B, C, D, E

Properties
made of plastic, with embedment depth limitation to exactly 30 mm, prevents dimpled effect due to positioning the plate afterwards, suitable for Passivhaus buildings

Notes
two-part insulation fastener, shaft and plate must be ordered separately, the type name indicates the maximum insulant thickness to be fixed (not the shaft length)

Approx. consumption	5 pcs./m²
Format	ø anchor plate: 90 mm shaft lengths for insulant thicknesses from 60 to 300 mm
Application	drill-hole depth: ≥ 40 mm drill bit diameter: 8 mm anchorage depth: ≥ 30 mm, (in a load-bearing substrate)

Sto-Screw-In Anchor H 60

Insulation fixing

Area of application
exterior, for timber, board materials, for sheet metals up to a thickness of 0.75 mm, for surface-flush fixing of insulation boards in external wall insulation systems, for recessed fixing of insulation boards in external wall insulation systems

Properties
recessed installation in EPS to prevent anchor pattern staining, recessed installation without milling dust

Notes
accessories: see tools and machines – system tool – EWIS, special lengths are available on request

Format	plate diameter: 60 mm thread diameter of screw: 6 mm
Colour shade	white
Application	recommended anchorage depth: > 25 mm, surface-flush installation using long T25 bit and closing the screw opening with closing element provided, recessed installation in EPS with Sto-Thermo Anchor II MT and covering the anchor plate with Sto-Thermo Anchor Cap

Carrier boards

StoVentec Carrier Board

Render carrier board made of expanded glass granulate

Area of application
as a carrier board in the StoVentec RSC system for facade and ceiling cladding

Properties
mesh-reinforced on both sides, limited combustibility, resistant to mechanical stress, frost-resistant, low weight

Approx. consumption	1200 x 800	1.04 pcs./m²
	2400 x 1200	0.35 pcs./m²
Format	1200 x 800 x 12 mm 2400 x 1200 x 12 mm	
Application	The board is workable with all commercially available tools (knife, saw, etc.) and is screwed onto the sub-construction.	

StoVentec Carrier Board A

Render carrier board made of expanded glass granulate

Area of application
all-purpose use for all substrates and dry building constructions, boarding on round constructions, EXTERIOR:, carrier board for all StoTherm external wall insulation systems, carrier board for facade and ceiling cladding in the RSC system, impact protection through insulation renders or insulation systems, covering of non-load bearing substrates, openings, or roller shutter boxes, INTERIORS:, cladding of stud walls and sanitary front wall elements, on walls, ceilings, slopes, under roofs, cellars, tile substrates and filler and levelling coat in wall areas, for water impact W2-1 or W3-1 in wet rooms and rooms exposed to moisture: professional waterproofing in accordance with DIN 18534 is required

Properties
reaction to fire (class) in accordance with EN 13501-1: A2-s1, d0, frost-resistant, resistant to mechanical stress, low weight, easy processing, cut to size with a utility knife, moisture-resistant, but not suitable for permanent contact with fluid water, light appearance, visible mesh reinforcement on both sides

Notes
for a non-combustible system build-up (A2-s1, d0) in accordance with EN 13501 in the StoVentec S, M, C systems and depending on national approvals, use StoPrep Ventec A (applied quantity: 165 g/m²) to coat the side allocated to the ventilation airspace

Approx. consumption	1200 x 800 x 12 mm	1.04 pcs./m²
	2400 x 1200 x 12 mm	0.35 pcs./m²
Format	width x height, dimensions in mm: 1200 x 800, 2400 x 1200 thicknesses, dimensions in mm: 12	
Application	workable with all commercially available tools (knife, saw, etc.), screwed to sub-construction	

Fixing of the carrier boards

Sto-Facade Screws

Fixing screws for StoVentec Carrier Board

Area of application
to fix StoVentec Carrier Boards to the sub-construction

Properties
made of stainless steel, with Torx head TX25 (1 bit enclosed with each carton)

Approx. consumption	5.0 x 42 mm	12 - 20 pcs./m² depending on the wind load range
	5.5 x 24 mm	12 - 30 pcs./m² depending on the wind load range
	6.0 x 28 mm	12 - 30 pcs./m² depending on the wind load range
Format	5.0 x 42 mm (for timber sub-construction) 5.5 x 24 mm (for aluminium sub-construction) 6.0 x 28 mm (for steel sub-construction up to 1 mm thickness)	

Priming coat

Sto-Primer
Filled, pigmented, organic undercoat

Area of application
exterior, on mineral and organic substrates, for organic and silicone resin renders, for modified, mineral renders, for dispersion silicate renders, for finishing renders with Lotus-Effect® Technology

Properties
adhesion-promoting, absorbency-regulating, prolongs the open time of the finishing render during application, alkali-resistant, permeable to water vapour and CO_2, pigmented

Notes
only weather-resistant to a limited extent without a finishing coat

Approx. consumption	0.30 kg/m² per paint coat
Appearance	filled
Colour shade	white StoColor
Application	

Base coat

Sto-RFP
Organic, cement-free reinforcing compound/base coat, ready-to-use

Area of application
exterior, on mineral and organic substrates, as a reinforcing compound/base coat for StoTherm Classic®, as a reinforcing compound/base coat for StoVentec facades, as a levelling filler, as a renovation filler, not suitable for horizontal or sloping surfaces that are subject to weathering (does not apply to StoDeco Facade Elements)

Properties
cement-free, highly flexible, resistant to cracking, maximum resistance to mechanical stress

Approx. consumption	2.50 - 4.00 kg/m² as reinforcing compound on EPS foam boards
Colour shade	white StoColor
Application	

StoArmat Classic plus
Organic, cement-free reinforcing compound/base coat with large texturing grain

Area of application
exterior, on mineral and organic substrates, as a reinforcing compound/base coat for StoTherm Classic®, as a reinforcing compound/base coat for StoVentec facades, as a levelling filler, as a renovation filler

Properties
cement-free, ready-to-use, very good application properties, highly reliable application thanks to additional large texturing grain, good filling properties, excellent application properties

Notes
crack extension: approx. 2 %, Impact resistance: > 15 joules are possible with appropriate system build-up.

Approx. consumption	3.50 - 4.50 kg/m² as reinforcing compound on EPS foam boards 5.00 - 5.50 kg/m² as reinforcing compound on mineral wool insulation boards
Colour shade	white StoColor
Application	

StoArmat Classic plus F/M/G
Organic, cement-free reinforcing compound/base coat

Area of application
exterior, on mineral and organic substrates, as a reinforcing compound/base coat for StoTherm Classic®, as a reinforcing compound/base coat for StoVentec facades, as a levelling filler, as a renovation filler

Properties
cement-free, ready-to-use, very good application properties, high application reliability, good filling properties, excellent application properties

Notes
crack extension: approx. 2 %, Impact resistance: > 15 joules are possible with appropriate system build-up.

Approx. consumption	3.50 - 9.50 kg/m² as reinforcing compound on EPS foam boards 4.50 - 10.00 kg/m² as reinforcing compound on mineral wool insulation boards
Colour shade	white StoColor
Application	

StoArmat Classic plus QS F/M/G

Organic, cement-free reinforcing compound/base coat with early rainproofing properties

Area of application
exterior, on mineral and organic substrates, as a reinforcing compound/base coat for StoTherm Classic®, as a reinforcing compound/base coat for StoVentec facades, as a levelling filler, as a renovation filler

Properties
early rainproofing with QuickSet Technology, cement-free, ready-to-use, very good application properties, high application reliability, good filling properties, excellent application properties

Notes
crack extension: approx. 2 %, Impact resistance: > 15 joules are possible with appropriate system build-up.

Approx. consumption	3.50 - 9.50 kg/m² as reinforcing compound on EPS foam boards 4.50 - 10.00 kg/m² as reinforcing compound on mineral wool insulation boards
Colour shade	white StoColor
Application	

StoArmat Classic S1

Organic, cement-free reinforcing compound/base coat with large texturing grain, non-combustible in accordance with EN 13501, basalt-fibre-modified

Area of application
exterior, on mineral and organic substrates, as a reinforcing compound/base coat for StoTherm Classic® S1, as a reinforcing compound/base coat for StoVentec facades, as a levelling filler, as a renovation filler, not suitable for horizontal or sloping surfaces that are exposed to weather conditions

Properties
basalt-fibre-modified, cement-free, reaction to fire: class A2-s1, d0 in accordance with EN 13501-1, non-combustible, reaction to fire in the StoTherm Classic® S1 system: class A2-s1, d0 in accordance with EN 13501-1, non-combustible, mineral extenders, basalt-modified, very good application properties, highly reliable application thanks to additional large texturing grain, excellent application properties

Notes
crack extension: approx. 2 %, Impact resistance: > 15 joules are possible with appropriate system build-up.

Approx. consumption	3.50 - 4.50 kg/m² as reinforcing compound on EPS foam boards 4.50 - 6.50 kg/m² as reinforcing compound on mineral wool insulation boards
Colour shade	white StoColor
Application	

StoLevell Uni

Mineral bonding and reinforcing mortar/base coat

Area of application
exterior and interior, for reworking old mineral renders and nearly all old organic renders or masonry, for bonding insulation boards and render carrier boards to mineral or organic, non-elastic substrates, for thin-layer reinforcing coats, as adhesive and reinforcing compound for StoTherm Vario, StoTherm Mineral and StoTherm Reno

Properties
very good application properties, very high adhesive strength and adhesion to substrate, very highly permeable to water vapour, very highly water-repellent, very highly weather-resistant

Notes
natureplus®-certified as part of an insulation system, quantity required depends on substrate and insulant type, see Technical Data Sheet for detailed information

Approx. consumption	4.00 - 7.00 kg/m² bonding 4.00 - 5.00 kg/m² reinforcement 1.28 kg/m² per mm layer thickness
Colour shade	natural white
Application	

Reinforcement

Sto-Glass Fibre Mesh

Alkali-resistant reinforcing mesh

Area of application
exterior and interior, as a reinforcing mesh, all-purpose

Properties
optimised absorption of forces for the ultimate in reliability and crack prevention, high tensile strength, fibres resistant to dislocation, alkali-resistant, plasticiser-free, mass per unit area: approx. 165 g/m², tear resistance on delivery: ≥ 1750 N/50 mm

Approx. consumption	1.00 m/m² with an overlap of 10 cm
Format	mesh width: 6 x 6 mm roll width: 110 cm
Colour shade	white with yellow markings

Intermediate coat

StoPrep Miral

Filled, pigmented, silicate undercoat

Area of application
exterior, on mineral substrates, for finishing renders with Lotus-Effect® Technology, silicone resin, silicate, or mineral finishing render

Properties
on a silicate base, organic content < 5 %, adhesion-promoting, absorbency-regulating, CO_2 and water vapour permeable, pigmented

Notes
StoPrep Miral is not a finishing coat

Approx. consumption	0.30 - 0.40 kg/m² per paint coat
Appearance	filled
Colour shade	white StoColor
Application	

Finishing coat

StoLotusan® K/MP

Finishing render with Lotus-Effect® Technology

Area of application
exterior, on masonry, insulated and rainscreen cladding facades with a base coat, on mineral and organic substrates, not suitable for horizontal or sloping surfaces that are exposed to weather conditions

Properties
render in accordance with EN 15824, Lotus-Effect® Technology: dirt runs off with the rain, strongly supported self-cleaning effect when exposed to rain, A2-s1, d0 in accordance with EN 13501-1, with encapsulated film protection, excellent application, very high CO_2 and water vapour permeability, very highly weather-resistant, with high-quality marble grains made of natural deposits

Notes
if the selected colour shade has a light reflectance value ≥ 20, no additional finishing coat is necessary

Sto iQ
Intelligent Technology

Approx. consumption	K 1.0	1.90 kg/m²
	K 1.5	2.40 kg/m²
	K 2.0	3.20 kg/m²
	K 3.0	4.30 kg/m²
	MP	1.50 - 4.00 kg/m² depending on the texture
Appearance	as a stippled texture (K) or free-style textured render (MP)	
Colour shade	white StoColor	
Application		

StoSilco® K/R/MP

Silicone resin finishing render

Area of application
exterior, on masonry, insulated and rainscreen cladding facades with a base coat, on mineral and organic substrates, not suitable for horizontal or sloping surfaces that are exposed to weather conditions

Properties
render in accordance with EN 15824, genuine silicone resin render for reliable application and long-lasting facades, A2-s1, d0 in accordance with EN 13501-1, with encapsulated film protection, very high CO_2 and water vapour permeability, highly weather-resistant, hydrophobic capillary effect, highly water-repellent, water-dilutable, with high-quality marble grains made of natural deposits

Notes
light reflectance value ≥ 15 possible without additional finishing coat

Approx. consumption	K 1.0	2.00 kg/m²
	K 1.5	2.30 kg/m²
	K 2.0	3.00 kg/m²
	K 3.0	4.30 kg/m²
	R 1.5	2.20 kg/m²
	R 2.0	2.70 kg/m²
	R 3.0	3.50 kg/m²
	MP	1.50 - 4.00 kg/m² depending on the texture
Appearance	as stippled (K), rilled (R), or freestyle textured render (MP)	
Colour shade	white StoColor	
Application		

Stolit® K/R/MP

Organic finishing render

Area of application
exterior, on masonry, insulated and rainscreen cladding facades with a base coat, on mineral and organic substrates, not suitable for horizontal or sloping surfaces that are exposed to weather conditions

Properties
render in accordance with EN 15824, maximum reliability with regard to application, value retention, colour shade, and stability, A2-s1, d0 in accordance with EN 13501-1, with encapsulated film protection, shockproof and highly resistant to cracks and hail when combined with StoTherm Classic®, highly permeable to water vapour, highly water-repellent, weather-resistant, water-dilutable, with high-quality marble grains made of natural deposits

Notes
light reflectance value ≥ 15 possible without additional finishing coat

Approx. consumption	K 1.0	1.80 kg/m²
	K 1.5	2.30 kg/m²
	K 2.0	3.00 kg/m²
	K 3.0	4.30 kg/m²
	K 6.0	6.00 kg/m²
	R 1.5	2.20 kg/m²
	R 2.0	2.70 kg/m²
	R 3.0	3.50 kg/m²
	R 6.0	5.60 kg/m²
	MP	1.50 - 4.00 kg/m² depending on the texture
Appearance	as stippled (K), rilled (R), or freestyle textured render (MP)	
Colour shade	white StoColor	
Application		

StoAdditiv WE

Water-based drying accelerator

Area of application
exterior, use only in the finishing renders Stolit® and StoSilco® K/R/MP (not in products with QuickSet Technology)

Properties
drying is promoted at temperatures of ≥ +7 °C, solvent-free

Notes
Mix the additive with the finishing render directly before application., Apply the finishing render promptly after adding the additive.

Format	bottle: 500 ml (from 2020) bottle: 250 ml (only available until approx. Q1 / 2020)

StoMiral® K/R/MP

Mineral finishing render in accordance with EN 998-1

Area of application
exterior and interior, modified finishing plaster in accordance with EN 998-1, ideally suitable for Sto facade insulation systems with mineral base coats

Properties
very high CO_2 and water vapour permeability, weather-resistant, hydrophobic, with high-quality marble grains made of natural deposits

Approx. consumption	K 1.0	1.60 kg/m²
	K 1.5	1.80 kg/m²
	K 2.0	2.40 kg/m²
	K 3.0	2.70 kg/m²
	grain 4-6	5.20 kg/m²
	R 1.5	1.80 kg/m²
	R 2.0	2.40 kg/m²
	R 3.0	2.80 kg/m²
	R 6.0	6.20 kg/m²
	MP	1.50 - 4.00 kg/m² depending on the texture
Appearance	optimised texture as stippled (K), rilled (R), or freestyle textured render (MP)	
Colour shade	white StoColor	
Application		

StoColor Silco G

Genuine silicone resin facade paint, with increased encapsulated film protection, especially fail-proof

Area of application
exterior, on mineral and organic substrates

Properties
texture-retaining, genuine silicone resin paint (approx. 50 % of the total binding agent content) in accordance with the French standard FD T30-808, very good hiding power, highly water-repellent, with increased encapsulated film protection, maximum resistance to soiling, highly permeable to CO_2 and water vapour, low-tension, even drying, robust

Approx. consumption	0.18 - 0.20 l/m² per paint coat
Appearance	matt
Colour shade	white
Application	

Facade claddings

StoVentec Glass

Panel for ventilated rainscreen cladding system, prefabricated ex works

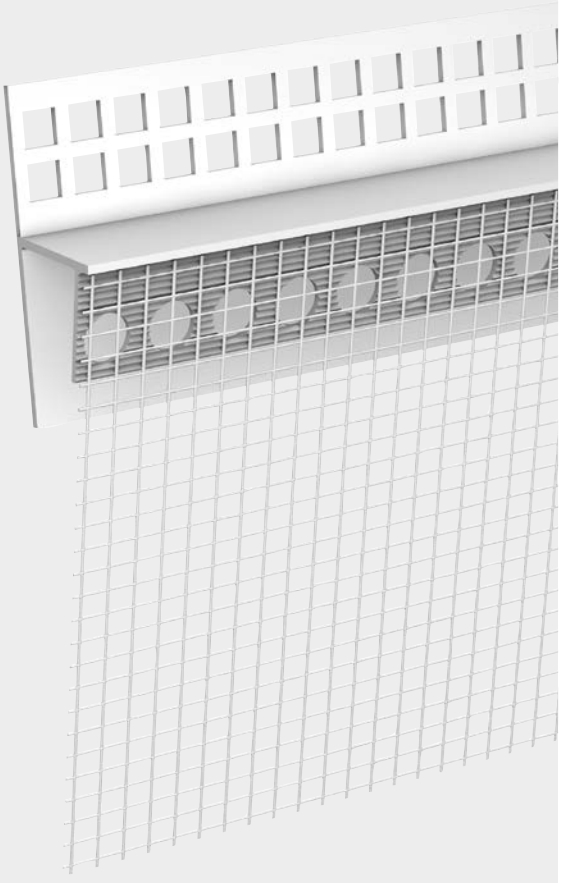
Area of application
exterior, interior, factory-produced panels are inserted into the sub-construction on the construction site, on walls, on ceilings

Properties
tempered safety glass: 6 mm, 8 mm, rear side: colour enamelled, bonding: full-surface to a 20 mm carrier board made of expanded glass granulate, crosslinking of the adhesive: neutral, screw connection: on the rear side with board carrier profiles, weight: approx. 30 kg/m², panel thickness without board carrier profile: 30 mm, panel thickness tolerance at a glass thickness of 6 mm: +0 mm to -2 mm, tempered safety glass: optionally with or without heat soak test, reaction to fire: class B-s1, d0 in accordance with EN 13501-1

Notes
type of application: rear ventilated, external wall cladding in accordance with DIN 18516-1, installation: in accordance with the structural analysis with approved fixings, Unevenness, tempered safety glass: the thermal tempering process may cause general and local warping in accordance with EN 12150-1., approved dimensions, tolerance: in accordance with EN 12150-1 and EN 14179

Format	maximum width x height, dimensions in m: standing: 1.25 x 2.6 / 1.5 x 3.75 / 1.25 x 4.5 / 2.5 x 2.6 lying: 2.6 x 1.25 / 3.75 x 1.5 minimum edge length: 10 cm, and minimum length of the larger edge: 30 cm
Appearance	high-quality glass surface no visible fixing high colour shade variety no limitation to the light reflectance value float glass or low-iron float glass

Accessories



Sto-Edge Protection Profile G

Protective profile for the outer edges of the render carrier board

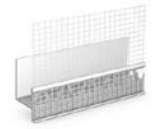
Area of application
exterior, for vertical and lower horizontal outer edges of the carrier board in the window and plinth area

Properties
made of plastic, PVC, with a perforated wing and integrated glass fibre mesh

Approx. consumption	1.00 m/m
Format	length: 250 cm
Colour shade	white

Sto-Edge Protection Profile GT-R

Edge protection profile with drip edge for render carrier boards



Area of application
exterior, for the lower outer edges of the render carrier board

Properties
made of plastic, PVC, with wing, with integrated glass fibre mesh

Approx. consumption	1.00 m/m
Format	length: 250 cm drip edge: 3 mm, 6 mm
Colour shade	white

Sto-Edge Protection Profile GF

Edge protection profile for joint formation with StoVentec Carrier Boards in the StoVentec R system

Area of application
exterior, for the formation of horizontal and vertical field demarcation joints

Properties
made of plastic, PVC, with a wing and integrated glass fibre mesh, improved protection from driving rain on field demarcation joints due to the overlapping profile wing for installation in combination with the Sto-Edge Protection Profile GT

Approx. consumption	1.00 m/m
Format	length: 250 cm
Colour shade	white, coating possible in accordance with the specifications of the system manufacturer

Sto-Edge Protection Profile GT

Edge protection profile with a drip edge for StoVentec Carrier Boards in the StoVentec R system

Area of application
exterior, for the lower outer edges of the carrier boards, in combination with the Sto-Edge Protection Profile GF for the formation of field demarcation joints

Properties
made of plastic, PVC, with a wing and integrated glass fibre mesh, with ventilation openings in the undersides of the profile bottoms

Approx. consumption	1.00 m/m
Format	length: 250 cm
Colour shade	white, coating possible in accordance with the specifications of the system manufacturer

Sto-Ventilation Profile

Stop and ventilation profile for protecting the back ventilation from pests

Area of application
for ventilation openings in the plinth and window lintel area on buildings with ventilated rainscreen cladding facades, for ensuring system ventilation and protection from small animals

Properties
made of aluminium

Notes
bonding: e.g. with Soudal Fix All Flexi or Sto-Stone Paste

Approx. consumption	1.00 m/m
Format	length: 250 cm

Sto-Rain Guard Profile G

Stop profile with drip edge

Area of application
exterior, Stop profile with drip edge, for the top junction of the StoVentec facade in parapet areas and under the window sill

Properties
made of plastic, PVC, with a perforated wing and integrated glass fibre mesh

Approx. consumption	1.00 m/m
Format	length: 250 cm

Sto-Roof Vent Profile G

Connection profile for roof ventilation

Area of application
exterior, as an edge protection profile, for roof ventilation, for the top junction of the StoVentec Facade in parapet areas, under the window sill and around the window lintel

Properties
made of plastic, PVC, with a perforated wing and integrated glass fibre mesh

Approx. consumption	1.00 m/m
Format	length: 250 cm
Colour shade	white

Joint formation, filling compounds

Sto-Joint Sealing Tape Lento

Compressed sealing tape made of impregnated flexible foam

Area of application
for waterproofing connections between facade insulation systems and adjacent building elements, the slow expansion makes it particularly suitable for creating complex connections (e.g. for window sills), for the following joint widths (internal width plus movement capability). 2-6 mm, 3-9 mm, 5-12 mm, and 9-18 mm

Properties
resistant to driving rain, fully impregnated, slowly expanding, self-adhesive

Notes
resistance to driving rain is only assured if the joint width is within the area of application (e.g. 2-6 mm)

Approx. consumption	1.00 m/m
Format	width of the tape / joint width: 15 mm / 2-6 mm 15 mm / 3-9 mm 15 mm / 5-12 mm 25 mm / 9-18 mm
Colour shade	anthracite

Sto-Joint Sealing Tape 2D

Compressed joint sealing tape made of impregnated flexible foam

Area of application
for waterproofing connections to adjacent building elements on facade insulation systems, for the following joint widths (internal width plus movement capability): 2-6 mm and 5-12 mm, not suitable for joints and connections with large movements (e.g. structural expansion joints), for timber frame construction we recommend Sto-Joint Sealing Tape Lento

Properties
resistant to driving rain, impregnated on the sides, rapidly expanding, self-adhesive

Notes
resistance to driving rain is only assured if the joint width is within the area of application (e.g. 2-6 mm)

Approx. consumption	1.00 m/m
Format	width of the tape / joint width: 15 mm / 2-6 mm 15 mm / 5-12 mm
Colour shade	anthracite

Supplementary products

Sto-Fire Barrier Profile

Profile to create a horizontal fire barrier

Area of application
exterior, for forming horizontal fire barriers in the ventilation airspace of ventilated rainscreen cladding systems, as well as for preventing fire flash-over in the ventilation airspace, in the area of the joints between the vertical carrier profiles

Properties
made of hot-dipped galvanised steel: DX51D+Z275, material no. 1.0917 in accordance with EN 10346, corrosion-proofed, non-combustible

Notes
select projection depending on the ventilation airspace

Format	material thickness: 1.0 mm available projections, dimensions in mm: 80, 120, 160, 200, 240, 280 others projections on request

Refurbishment and protection systems

Multiple dwelling, Cologne, DE
Photo: Guido Erbring, Cologne, DE

StoReno

Renovation system for external wall insulation systems and rendered facades

System advantages

- no costly demolition measures
- slim build-up (approx. 15 mm)
- usually no need to replace the existing window sills or covers
- very high crack resistance
- highly weather-resistant
- permeable to water vapour and CO_2

1 Bonding
2 Carrier boards
3 Fixing
4 Intermediate coat
5 Base coat
6 Reinforcement
7 Intermediate coat
8 Finishing coat

Overview StoReno

Area of application	· for damaged render facades and external wall insulation systems in need of refurbishment
Fixing	· full-surface bonding and fixing with anchors
Reaction to fire	· class B-s1, d0 in accordance with EN 13501-1
Impact resistance	· highly resistant to mechanical stress
Design options	· organic and silicone resin renders as well as renders with Lotus-Effect® Technology in stippled render texture, rilled render texture, and free-style textured renders
Colour spectrum	· tintable in accordance with the StoColor System · light reflectance value ≥ 20 % (< 20 % possible on request)
Application	· ready-to-use system components · efficient application through use of StoSilo technology · complete selection of detail solutions
Notes	· observe the current German Energy Savings Regulation (EnEV)
Approvals/standards	The relevant European and/or national approvals apply.

System description of StoReno

Fixing	Full-surface bonding and fixing with anchors
Substrate	at least suitable for bonding
Bonding	**StoColl KM** or **StoLevell Uni**
Carrier boards	**StoReno Plan 1200 x 800 x 8 mm**
Fixing	**StoReno Dowel Head Ø 90 mm** and **Sto-Screw Dowel UEZ 8**
Base coat	**StoArmat Classic plus M**
Reinforcement	**Sto-Glass Fibre Mesh**
Finish refer to chapter: Facade coatings · Finishing renders	**Stolit® K/R/MP** or **StoSilco® K/R/MP** or **StoLotusan® K/MP**

Bonding

StoLevell Uni

Mineral bonding and reinforcing mortar/base coat

Area of application
exterior and interior, for reworking old mineral renders and nearly all old organic renders or masonry, for bonding insulation boards and render carrier boards to mineral or organic, non-elastic substrates, for thin-layer reinforcing coats, as adhesive and reinforcing compound for StoTherm Vario, StoTherm Mineral and StoTherm Reno

Properties
very good application properties, very high adhesive strength and adhesion to substrate, very highly permeable to water vapour, very highly water-repellent, very highly weather-resistant

Notes
natureplus®-certified as part of an insulation system, quantity required depends on substrate and insulant type, see Technical Data Sheet for detailed information

Approx. consumption	4.00 - 7.00 kg/m² bonding 4.00 - 5.00 kg/m² reinforcement 1.28 kg/m² per mm layer thickness
Colour shade	natural white
Application	

StoColl KM

Mineral, flexible grout for brick slips, ceramic, natural stone tiles, and glass mosaic

Area of application
exterior and interior, as a grout (flexible adhesive) for suitable brick slips, ceramic and natural stone tiles, and glass mosaic, for bonding StoPanel Plus, on StoLevell Uni mineral reinforcing mortar, on organic reinforcing mortar with intermediate coat (StoPrep Contact)

Properties
excellent adhesive bond, resistant to frost and weathering, optimum non-sag properties, meets C1TE requirements in accordance with EN 12004

Approx. consumption	3.50 - 4.50 kg/m² bonding 1.20 kg/m² per mm layer thickness
Colour shade	grey, white
Application	application to both surfaces (back-buttering method)

Carrier boards

StoReno Plan

Render carrier board made of expanded glass granulate with anchor plate recesses

Area of application
exterior and interior, as a render carrier board for damaged render facades and external wall insulation systems in need of refurbishment

Properties
mesh-reinforced on both sides, with pressed-in anchor plate recesses, limited combustibility, shock-proof

Approx. consumption	1200 x 800 mm 1.04 pcs./m²
Format	1200 x 800 x 8 mm
Application	workable with all commercially available tools (knife, saw, etc.)

Fixing

StoReno Anchor Plate Enlarger

Anchor plate enlarger for Sto-Screw-In Anchor S UEZ 8

Area of application
exterior, as fixing element in combination with Sto-Screw-In Anchor S UEZ 8 for StoReno Plan

Approx. consumption	1.00 pcs./pcs.
Format	ø 90 mm

Sto-Screw-In Anchor S UEZ 8

Rail fixing with European Technical Approval

Area of application
exterior, for concrete, solid building materials, perforated building materials, no-fines lightweight concrete, cellular concrete, use categories: A, B, C D, E

Notes
European Technical Approval ETA-04/0023, suitable for the StoReno system in combination with the StoReno Anchor Plate Enlarger

Format	thread diameter of screw: 8 mm
Colour shade	white
Application	concrete, solid building materials, perforated building materials,, no-fines lightweight concrete: drill-hole depth ≥ 35 mm, anchorage, depth ≥ 25 mm, cellular concrete: drill-hole depth ≥ 75 mm, anchorage depth≥ 65 mm, in the load-bearing substrate

Base coat

StoArmat Classic plus F/M/G

Organic, cement-free reinforcing compound/base coat

Area of application
exterior, on mineral and organic substrates, as a reinforcing compound/ base coat for StoTherm Classic®, as a reinforcing compound/base coat for StoVentec facades, as a levelling filler, as a renovation filler

Properties
cement-free, ready-to-use, very good application properties, high application reliability, good filling properties, excellent application properties

Notes
crack extension: approx. 2 %, Impact resistance: > 15 joules are possible with appropriate system build-up.

Approx. consumption	3.50 - 9.50 kg/m² as reinforcing compound on EPS foam boards 4.50 - 10.00 kg/m² as reinforcing compound on mineral wool insulation boards
Colour shade	white StoColor
Application	

StoArmat Classic plus QS F/M/G

Organic, cement-free reinforcing compound/base coat with early rainproofing properties

Area of application
exterior, on mineral and organic substrates, as a reinforcing compound/ base coat for StoTherm Classic®, as a reinforcing compound/base coat for StoVentec facades, as a levelling filler, as a renovation filler

Properties
early rainproofing with QuickSet Technology, cement-free, ready-to-use, very good application properties, high application reliability, good filling properties, excellent application properties

Notes
crack extension: approx. 2 %, Impact resistance: > 15 joules are possible with appropriate system build-up.

Approx. consumption	3.50 - 9.50 kg/m² as reinforcing compound on EPS foam boards 4.50 - 10.00 kg/m² as reinforcing compound on mineral wool insulation boards
Colour shade	white StoColor
Application	

Reinforcement

Sto-Glass Fibre Mesh

Alkali-resistant reinforcing mesh

Area of application
exterior and interior, as a reinforcing mesh, all-purpose

Properties
optimised absorption of forces for the ultimate in reliability and crack prevention, high tensile strength, fibres resistant to dislocation, alkali-resistant, plasticiser-free, mass per unit area: approx. 165 g/m², tear resistance on delivery: ≥ 1750 N/50 mm

Approx. consumption	1.00 m/m² with an overlap of 10 cm
Format	mesh width: 6 x 6 mm roll width: 110 cm
Colour shade	white with yellow markings

Intermediate coat

Sto-Primer

Filled, pigmented, organic undercoat

Area of application
exterior, on mineral and organic substrates, for organic and silicone resin renders, for modified, mineral renders, for dispersion silicate renders, for finishing renders with Lotus-Effect® Technology

Properties
adhesion-promoting, absorbency-regulating, prolongs the open time of the finishing render during application, alkali-resistant, permeable to water vapour and CO_2, pigmented

Notes
only weather-resistant to a limited extent without a finishing coat

Approx. consumption	0.30 kg/m² per paint coat
Appearance	filled
Colour shade	white StoColor
Application	

Finishing coat

StoLotusan® K/MP

Finishing render with Lotus-Effect® Technology

Area of application
exterior, on masonry, insulated and rainscreen cladding facades with a base coat, on mineral and organic substrates, not suitable for horizontal or sloping surfaces that are exposed to weather conditions

Properties
render in accordance with EN 15824, Lotus-Effect® Technology: dirt runs off with the rain, strongly supported self-cleaning effect when exposed to rain, A2-s1, d0 in accordance with EN 13501-1, with encapsulated film protection, excellent application, very high CO_2 and water vapour permeability, very highly weather-resistant, with high-quality marble grains made of natural deposits

Notes
if the selected colour shade has a light reflectance value ≥ 20, no additional finishing coat is necessary

Sto iQ
Intelligent Technology

Approx. consumption	K 1.0	1.90 kg/m²
	K 1.5	2.40 kg/m²
	K 2.0	3.20 kg/m²
	K 3.0	4.30 kg/m²
	MP	1.50 - 4.00 kg/m² depending on the texture
Appearance	as a stippled texture (K) or free-style textured render (MP)	
Colour shade	white StoColor	
Application		

StoSilco® K/R/MP

Silicone resin finishing render

Area of application
exterior, on masonry, insulated and rainscreen cladding facades with a base coat, on mineral and organic substrates, not suitable for horizontal or sloping surfaces that are exposed to weather conditions

Properties
render in accordance with EN 15824, genuine silicone resin render for reliable application and long-lasting facades, A2-s1, d0 in accordance with EN 13501-1, with encapsulated film protection, very high CO_2 and water vapour permeability, highly weather-resistant, hydrophobic capillary effect, highly water-repellent, water-dilutable, with high-quality marble grains made of natural deposits

Notes
light reflectance value ≥ 15 possible without additional finishing coat

Approx. consumption	K 1.0	2.00 kg/m²
	K 1.5	2.30 kg/m²
	K 2.0	3.00 kg/m²
	K 3.0	4.30 kg/m²
	R 1.5	2.20 kg/m²
	R 2.0	2.70 kg/m²
	R 3.0	3.50 kg/m²
	MP	1.50 - 4.00 kg/m² depending on the texture
Appearance	as stippled (K), rilled (R), or freestyle textured render (MP)	
Colour shade	white StoColor	
Application		

Stolit® K/R/MP

Organic finishing render

Area of application
exterior, on masonry, insulated and rainscreen cladding facades with a base coat, on mineral and organic substrates, not suitable for horizontal or sloping surfaces that are exposed to weather conditions

Properties
render in accordance with EN 15824, maximum reliability with regard to application, value retention, colour shade, and stability, A2-s1, d0 in accordance with EN 13501-1, with encapsulated film protection, shockproof and highly resistant to cracks and hail when combined with StoTherm Classic®, highly permeable to water vapour, highly water-repellent, weather-resistant, water-dilutable, with high-quality marble grains made of natural deposits

Notes
light reflectance value ≥ 15 possible without additional finishing coat

Approx. consumption	K 1.0	1.80 kg/m²
	K 1.5	2.30 kg/m²
	K 2.0	3.00 kg/m²
	K 3.0	4.30 kg/m²
	K 6.0	6.00 kg/m²
	R 1.5	2.20 kg/m²
	R 2.0	2.70 kg/m²
	R 3.0	3.50 kg/m²
	R 6.0	5.60 kg/m²
	MP	1.50 - 4.00 kg/m² depending on the texture
Appearance	as stippled (K), rilled (R), or freestyle textured render (MP)	
Colour shade	white StoColor	
Application		

StoColor Lotusan® G

Facade paint with Lotus-Effect® Technology, with encapsulated film protection

Area of application
exterior, for paint coats with reduced adhesion of dirt particles on mineral and organic substrates

Properties
texture-retaining, very high CO_2 and water vapour permeability, reduced wettability with water, Lotus-Effect® Technology: reduced adhesion of dirt particles and self-cleaning when exposed to rain, dirt runs off with the rain, natural protection thanks to the Lotus-Effect and encapsulated film protection, low-tension

Sto iQ
Intelligent Technology

Approx. consumption	0.18 - 0.20 l/m² per paint coat	
Appearance	matt	
Colour shade	white StoColor	
Application		

StoColor Silco G

Genuine silicone resin facade paint, with increased encapsulated film protection, especially fail-proof

Area of application
exterior, on mineral and organic substrates

Properties
texture-retaining, genuine silicone resin paint (approx. 50 % of the total binding agent content) in accordance with the French standard FD T30-808, very good hiding power, highly water-repellent, with increased encapsulated film protection, maximum resistance to soiling, highly permeable to CO_2 and water vapour, low-tension, even drying, robust

Approx. consumption	0.18 - 0.20 l/m² per paint coat
Appearance	matt
Colour shade	white
Application	

Accessories

StoAdditiv WE

Water-based drying accelerator

Area of application
exterior, use only in the finishing renders Stolit® and StoSilco® K/R/MP (not in products with QuickSet Technology)

Properties
drying is promoted at temperatures of ≥ +7 °C, solvent-free

Notes
Mix the additive with the finishing render directly before application., Apply the finishing render promptly after adding the additive.

Format	bottle: 500 ml (from 2020) bottle: 250 ml (only available until approx. Q1 / 2020)

StoReno Joint Sealing Tape

Compressed sealing tape made of impregnated flexible foam

Area of application
for waterproofing connections in the StoReno renovation system, to fit StoReno Plan, for joint widths of 3-6 mm, not suitable for joints and connections with large movements (e.g. structural expansion joints)

Properties
resistant to driving rain, fully impregnated, slowly expanding, self-adhesive

Notes
stress group BG 1 in accordance with DIN 18542, Resistance to driving rain in accordance with DIN 18542, stress group BG 1, is only assured if the joint width is within the area of application (3-6 mm).

Approx. consumption	1.00 m/m
Format	width of the tape / joint width: 10 mm / 3-6 mm
Colour shade	anthracite

StoReno Edge Protection Profile

Protection profile for the outer edges of the StoReno Plan render carrier board

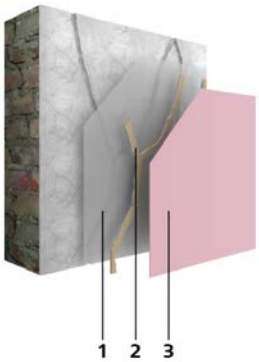
Area of application
as edge protection, to fit StoReno Plan 8 mm

Properties
edge protection profile with integrated glass fibre mesh, profile material: polyvinyl chloride (PVC)

Approx. consumption	1.00 m/m
Format	length: 250 cm mesh width: 125 mm
Colour shade	white

Sto-Crack Repair System with Facade Paints
Paint coating system for cracked substrates

System advantages
- highly effective at crack bridging or crack prevention
- matched system components
- water-repellent



1 Substrate coating
2 Filling of cracks
3 Finishing coat

Overview Sto-Crack Repair System with Facade Paints

Area of application	▪ for cracks in the render and the substrate ▪ not suitable for structural cracks or those due to the construction ▪ limited suitability for repairing cracks in old external wall insulation systems
Colour spectrum	▪ tintable in accordance with the StoColor System
Application	▪ produce a load-bearing substrate before applying the coatings ▪ depending on the type of crack, mesh reinforcement is required
Approvals/standards	tested in accordance with EN 1062-7 and Sto SE & Co. KGaA internal test specifications

Crack repair of paintwork in accordance with EN 1062-7 classification and Sto test results

Crack movement	**No movement**	**Crack movement up to 0.1 mm**	**Crack movement up to 0.25 mm**	**Crack movement up to 0.5 mm**
Substrate coating	**StoPrim Micro**			
Filling of cracks				**Sto-Rissfüller**
First intermediate coat	**StoColor Fibrasil[1)]**	**StoColor Silco Elast**	**StoColor Silco Elast**	**StoColor Lastic[2)]**
Second intermediate coat			**StoColor Silco Elast**	
Finish	**StoColor Fibrasil[1)]**	**StoColor Silco Elast**	**StoColor Silco Elast**	**StoColor Lastic**
Class EN 1062-7 for a roughness depth crack width (in mm)/ V-expansion (mm/min)	**none up to 0.1 mm none**	**A1 up to 0.1 mm none**	**A2 up to 0.25 mm 0.05**	**A3 up to 0,5 mm 0.05**

[1)] alternatively StoColor Silco Fill, StoColor S [2)] with StoLastic Mesh RF if necessary

Priming coat

StoPrim Micro

Deep priming concentrate with low solvent content on a silicone microemulsion base

Area of application
exterior, for mineral substrates, as a hydrophobic primer

Properties
consolidates mineral substrates, highly hydrophobic siloxane concentrate, the water-based emulsion has a high penetration capacity, absorbency-regulating, adhesion-promoting

Notes
not suitable on gypsum-containing substrates, This is a concentrate! when applying, dilute the primer 1:10 with water, protect sensitive areas (glass, marble, varnished surfaces or those to be varnished, etc.)

Approx. consumption	0.01 - 0.05 l/m² per coat as a primer 0.02 - 0.10 l/m² per coat as a hydrophobic agent
Colour shade	farblos
Application	1:10 water-dilutable as a primer, 1:4 water-dilutable as a hydrophobic agent

StoPrim Sol GT

Siliconate-reinforced hydrosol silicate primer with gel technology

Area of application
exterior and interior, on absorbent, mineral, and organic substrates and coatings, for consolidating chalky but load-bearing existing paint coats and crumbling renders, for reducing the absorption capacity of gypsum plasterboards, porous and absorbent substrates, e.g. plasters, renders, unfired masonry or cellular concrete, highly suitable underneath all StoColor facade and interior paints, ideal underneath Lotus-Effect®, sol silicate, and silicone resin emulsion paints

Properties
water-based, non-drip, hydrosol silicate, deep-acting priming cream, low tendency to dripping, even when working overhead, minimised emissions, solvent-free, plasticiser-free, regulates the absorption capacity and strengthens the substrate, siliconate-reinforced for increased water resistance, silicifying on mineral substrates

Approx. consumption	0.10 - 0.20 l/m² per paint coat, on a weakly absorbent substrate 0.20 - 0.30 l/m² per paint coat, on an absorbent substrate 0.30 - 0.60 l/m² per paint coat, on a highly absorbent substrate
Colour shade	farblos
Application	

Filling of cracks

Sto-Crack Filler fine

Filling compound on a dispersion base

Area of application
exterior, for crack filling as part of the Sto crack repair systems, for organic, mineral, and coated substrates

Properties
ready-to-use, elastic crack filler with extremely minimal post-contraction characteristics

Colour shade	natural white
Application	easy to apply

Finishing coat

StoColor Fibrasil

Facade paint for reliably bridging shrinkage and hairline cracks, fibre-filled, texture-imparting

Area of application
exterior, for bridging and filling hairline and shrinkage cracks of up to 0.1 mm width, for covering paint coats on mineral and organic substrates

Properties
very good hiding power, highly water-repellent, water vapour permeable, alkali-resistant, fibre-reinforced

Notes
with encapsulated film protection

Approx. consumption	0.20 - 0.30 l/m² per paint coat
Appearance	matt
Colour shade	white
Application	

StoColor Silco Elast

Facade paint on a silicone resin base

Area of application
exterior, for crack-bridging coatings on facades with cracks up to max. 0.2 mm, for organic and mineral substrates

Properties
very good hiding power, very highly water-repellent, water vapour permeable, elastic

Notes
with encapsulated film protection

Approx. consumption	0.30 - 0.50 l/m² per paint coat
Appearance	matt
Colour shade	white
Application	

StoColor Lastic

Facade paint on a emulsion base, cold-elastic

Area of application
exterior, as an intermediate coat and finishing coat in the Sto crack repair system for cracks with a max. width of 1.0 mm

Properties
UV-crosslinking, highly elastic, very high resistance to soiling for such a highly elastic facade paint, very good hiding power, very highly water-repellent, water vapour permeable, cold-elastic

Notes
with encapsulated film protection

Approx. consumption	0.40 l/m² per paint coat
Appearance	silk matt
Colour shade	white
Application	

Accessories

StoLastic Mesh RF

Reinforcing mesh for crack repair

Area of application
for bridging and repairing cracks as part of Sto crack repair systems for paintwork

Properties
perfectly supplements and supports StoColor Lastic and StoColor Poro Fill

Approx. consumption	1.10 m/m² with an overlap of 10 cm
Format	width: 100 cm
Application	must overlap when embedding

Sto-Crack Repair System with Render Coating
Render coating system for cracked substrates

System advantages
- highly effective at crack bridging or crack prevention
- matched system components
- in accordance with WTA and/or BFS Recommendation

1 Priming coat
2 Base coat
3 Reinforcement
4 Intermediate coat
5 Finishing coat

Overview Sto-Crack Repair System with Render Coating

Area of application	▪ for cracks in the render and the substrate ▪ not suitable for structural cracks or those due to the construction ▪ limited suitability for repairing cracks in old external wall insulation systems
Colour spectrum	▪ project-dependent, in accordance with the StoColor System
Application	▪ produce a load-bearing substrate before applying the coatings ▪ depending on the type of crack, mesh reinforcement is required
Approvals/standards	based on EN 1062-7 and in accordance with Sto SE & Co. KGaA internal test specifications

Crack repair with render

Bridging of cracks class in line with EN 1062-7	**Minimum 0.1 mm A1 (23 °C)**	**Mininum 0.25 mm A2 (23 °C)**	**Minimum 0.5 mm A3 (23 °C)**	**More than 0.5 mm**
substrate preparations, priming coats, and detail solutions are always project-specific				
System	mineral-organic render system	organic render systems		
Base coat	**StoLevell Reno** [6.5 kg/m²]	**StoArmat Classic plus F/M/G** [≥ 4 kg/m²]		
Reinforcement	**Sto-Glass Fibre Mesh**	**Sto-Glass Fibre Mesh**		
Intermediate coat	**Sto-Primer**	optional **Sto-Primer**		
Finish/system solution	**Stolit® K/R/MP**	**Stolit® K/R/MP**		StoTherm System, also doubling-up of existing EWIS
Increased surface requirement	facade paints depending on project requirements			

Priming coat

Stoplex W
Water-based, siloxane-modified all-purpose primer on an acrylate base

Area of application
exterior, on mineral and organic substrates, on weathered, load-bearing, existing coatings, for consolidating chalky but load-bearing existing paint coats and crumbling renders, for reducing the absorption capacity of new or weathered renders and similar building materials

Properties
surface-consolidating, siloxane-modified, highly water-repellent, high penetration capacity, absorbency-regulating, adhesion-promoting, water-dilutable

Notes
dilute primer with water if necessary, so that it does not dry glossy

Approx. consumption	0.10 - 0.40 l/m² per paint coat
Appearance	transparent, slightly yellowish
Colour shade	yellowish pigmentation
Application	

Base coat

StoArmat Classic plus F/M/G
Organic, cement-free reinforcing compound/base coat

Area of application
exterior, on mineral and organic substrates, as a reinforcing compound/base coat for StoTherm Classic®, as a reinforcing compound/base coat for StoVentec facades, as a levelling filler, as a renovation filler

Properties
cement-free, ready-to-use, very good application properties, high application reliability, good filling properties, excellent application properties

Notes
crack extension: approx. 2 %, Impact resistance: > 15 joules are possible with appropriate system build-up.

Approx. consumption	3.50 - 9.50 kg/m² as reinforcing compound on EPS foam boards 4.50 - 10.00 kg/m² as reinforcing compound on mineral wool insulation boards
Colour shade	white StoColor
Application	

StoArmat Classic plus QS F/M/G
Organic, cement-free reinforcing compound/base coat with early rainproofing properties

Area of application
exterior, on mineral and organic substrates, as a reinforcing compound/base coat for StoTherm Classic®, as a reinforcing compound/base coat for StoVentec facades, as a levelling filler, as a renovation filler

Properties
early rainproofing with QuickSet Technology, cement-free, ready-to-use, very good application properties, high application reliability, good filling properties, excellent application properties

Notes
crack extension: approx. 2 %, Impact resistance: > 15 joules are possible with appropriate system build-up.

Approx. consumption	3.50 - 9.50 kg/m² as reinforcing compound on EPS foam boards 4.50 - 10.00 kg/m² as reinforcing compound on mineral wool insulation boards
Colour shade	white StoColor
Application	

StoLevell Reno
Mineral, float-finishable, fibre-reinforced filler, organically modified

Area of application
exterior and interior, renovation mortar for the refurbishment and overcoating of mineral and almost all organic substrates, for bonding insulation boards and render carrier boards to mineral or organic, non-elastic substrates, can be used as a universal bonding agent

Properties
fibre-reinforced, good adhesion to substrate, crack-bridging if embedded mesh is used, hydrophobic, float-finishable, water vapour permeable, resistant to frost and weathering

Notes
quantity required depends on substrate and insulant type, see Technical Data Sheet for detailed information

Approx. consumption	1.28 kg/m² per mm layer thickness
Colour shade	natural white
Application	

Reinforcement

Sto-Glass Fibre Mesh

Alkali-resistant reinforcing mesh

Area of application
exterior and interior, as a reinforcing mesh, all-purpose

Properties
optimised absorption of forces for the ultimate in reliability and crack prevention, high tensile strength, fibres resistant to dislocation, alkali-resistant, plasticiser-free, mass per unit area: approx. 165 g/m², tear resistance on delivery: ≥ 1750 N/50 mm

Approx. consumption	1.00 m/m² with an overlap of 10 cm
Format	mesh width: 6 x 6 mm roll width: 110 cm
Colour shade	white with yellow markings

Intermediate coat

Sto-Primer

Filled, pigmented, organic undercoat

Area of application
exterior, on mineral and organic substrates, for organic and silicone resin renders, for modified, mineral renders, for dispersion silicate renders, for finishing renders with Lotus-Effect® Technology

Properties
adhesion-promoting, absorbency-regulating, prolongs the open time of the finishing render during application, alkali-resistant, permeable to water vapour and CO_2, pigmented

Notes
only weather-resistant to a limited extent without a finishing coat

Approx. consumption	0.30 kg/m² per paint coat
Appearance	filled
Colour shade	white StoColor
Application	

Finishing coat

Stolit® K/R/MP

Organic finishing render

Area of application
exterior, on masonry, insulated and rainscreen cladding facades with a base coat, on mineral and organic substrates, not suitable for horizontal or sloping surfaces that are exposed to weather conditions

Properties
render in accordance with EN 15824, maximum reliability with regard to application, value retention, colour shade, and stability, A2-s1, d0 in accordance with EN 13501-1, with encapsulated film protection, shockproof and highly resistant to cracks and hail when combined with StoTherm Classic®, highly permeable to water vapour, highly water-repellent, weather-resistant, water-dilutable, with high-quality marble grains made of natural deposits

Notes
light reflectance value ≥ 15 possible without additional finishing coat

Approx. consumption	K 1.0	1.80 kg/m²
	K 1.5	2.30 kg/m²
	K 2.0	3.00 kg/m²
	K 3.0	4.30 kg/m²
	K 6.0	6.00 kg/m²
	R 1.5	2.20 kg/m²
	R 2.0	2.70 kg/m²
	R 3.0	3.50 kg/m²
	R 6.0	5.60 kg/m²
	MP	1.50 - 4.00 kg/m² depending on the texture
Appearance	as stippled (K), rilled (R), or freestyle textured render (MP)	
Colour shade	white StoColor	
Application		

Accessories

StoAdditiv WE

Water-based drying accelerator

Area of application
exterior, use only in the finishing renders Stolit® and StoSilco® K/R/MP (not in products with QuickSet Technology)

Properties
drying is promoted at temperatures of ≥ +7 °C, solvent-free

Notes
Mix the additive with the finishing render directly before application., Apply the finishing render promptly after adding the additive.

Format	bottle: 500 ml (from 2020) bottle: 250 ml (only available until approx. Q1 / 2020)

Filler and levelling coat

StoGold Fill

Filler on a dispersion base for filling and smoothing water-repellent and airtight joints in connection with StoGuard Mesh

Area of application
exterior, for filling and smoothing of water-repellent and airtight joints in connection with StoGuard Mesh, e.g. joints, corners, transitions, maximum joint width: 0.8 mm

Properties
flexible, water-repellent, airtight

Colour shade	natural
Application	

Mesh

StoGuard Mesh

Self-adhesive, flexible reinforcing mesh

Area of application
to produce a second waterproofing layer underneath window sills in combination with StoFlexyl

Properties
alkali-resistant, plasticiser-free, self-adhesive, flexible, good adaptation to the substrate

Approx. consumption	1 m/m
Format	mesh width: 4 x 4 mm width: 100, 250 mm
Colour shade	white

Waterproofing

StoGold Coat®

Waterproofing on a dispersion base, water-repellent, and airtight

Area of application
exterior, waterproofing for all facade coatings, as moisture protection under an EWIS

Properties
UV-resistant, ageing-resistant, capillary-breaking, diffusion-open, airtight, enables building moisture to dry

Notes
connections: see construction details, StoGold Coat® may not be directly plastered., only apply one of the following adhesives onto StoGold Coat®: Sto-ADH-B, Sto-Dispersion Adhesive, StoLevell Uni, Sto-Turbofix

Approx. consumption	0.40 - 0.60 l/m² per paint coat
Application	

Facade coatings

KJPZ Königsfelden, Windisch, CH
Photo: Daniel Erne, Laufenburg, CH

StoPrim Fungal

Water-based disinfectant solution for pre-treating surfaces subject to algae and fungal attack

Area of application
exterior, interior, for disinfecting areas under algal and/or fungal attack

Properties
disinfectant, highly effective against algae and fungal attack

Notes
ready-to-use, do not dilute, active ingredients are water-soluble and degradable - we recommend applying a finishing coat, Use biocidal products with care. Always read the label and product information before use.

Approx. consumption	0.60 l/m² at least twice on an absorbent substrate 0.30 l/m² at least twice on a non-absorbent substrate
Appearance	transparent
Application	

Hydrophobic agents

StoSilco HC

Impregnating hydrophobing cream with low solvent content on a silane-siloxane base

Area of application
exterior, for the impregnation and hydrophobisation of mineral, alkaline substrates

Properties
highly hydrophobic, good depth of penetration, high active agent content (silane and siloxane) of 80 %

Notes
create sample surfaces, protect sensitive surfaces, e.g. glass, marble, varnished surfaces and those to be varnished

Approx. consumption	0.20 kg/m² per paint coat
Appearance	transparent after drying
Colour shade	white
Application	

Overview of substrate preparation

Product	Product properties						Project			
	Basis	Pigmented	Filled	Hydrophobic	Penetration capacity	Adhesion-promoting	Absorbency-regulating	Surface-consolidating	Isolating	Surface-disinfecting
StoPrim Fungal	water-based				■					■■
StoSilco HC	emulsion			■■	■■		■■			
StoPrim Micro	emulsion			■■	■■	■	■	■		
Stoplex W	water-based			□	■	■	■	■		
StoPrim Plex	water-based				■	■	■	■		
StoPrim Silicate	water-based				■	■	■	■		
Sto-Primer	water-based	■■	■			■	■■			
StoPrep Isol Q	water-based	□	■			■	■■		■	
StoPrep Miral	water-based	■	■			■			□	
StoPrim LP	solvent-containing	■				■	■■		■	
StoPrim LQ	solvent-containing	■	■			■	■■		■	
StoPrep Contact	water-based	□	■			■■	□			
StoPrim Active	solvent-containing 2K	■				■■			■	

1) subject to the applied quantity and substrate

■■ excellent
■ good
□ to a limited extent

Substrates

Product	Concrete	Lime paint/ lime render	Lime/ cement render	Calcium silicate masonry unit	Cellular concrete	Sandstone	Silicone resin emulsion paint/ render	Silicate emulsion paint/ render	Cement bonded wood particle board	Fibre cement slab
StoPrim Fungal	■	■	■	■	■	■	■	■	■	■
StoSilco HC	■■	□	■	□	□		□	□		
StoPrim Micro	■■	■	■■	■■	■■	■	□	■		
Stoplex W	■■	□	■■	■■	■■	□	■■	■		□
StoPrim Plex	■	□	■■	■■	■■	□	■■	■		□
StoPrim Silicate	□	□	■■	■■	■■	□	■	■■		
Sto-Primer	■		■■	■			■■	■		□
StoPrep Isol Q	■		■■	■	□		■■	□		□
StoPrep Miral			■■	■■	□		■	■		
StoPrim Isol							■	■	■	□
StoPrim LP			■	■			■		■	□
StoPrim LQ			■	■			■		■	□
StoPrep Contact	■■		■	■	□		■	□		■
StoPrim Active			□	□						■■

■■ excellent
■ good
□ to a limited extent

Deep-acting primers

StoPrim Micro

Deep priming concentrate with low solvent content on a silicone microemulsion base

Area of application
exterior, for mineral substrates, as a hydrophobic primer

Properties
consolidates mineral substrates, highly hydrophobic siloxane concentrate, the water-based emulsion has a high penetration capacity, absorbency-regulating, adhesion-promoting

Notes
not suitable on gypsum-containing substrates, This is a concentrate! when applying, dilute the primer 1:10 with water, protect sensitive areas (glass, marble, varnished surfaces or those to be varnished, etc.)

Approx. consumption	0.01 - 0.05 l/m² per coat as a primer 0.02 - 0.10 l/m² per coat as a hydrophobic agent
Colour shade	farblos
Application	 1:10 water-dilutable as a primer, 1:4 water-dilutable as a hydrophobic agent

Stoplex W

Water-based, siloxane-modified all-purpose primer on an acrylate base

Area of application
exterior, on mineral and organic substrates, on weathered, load-bearing, existing coatings, for consolidating chalky but load-bearing existing paint coats and crumbling renders, for reducing the absorption capacity of new or weathered renders and similar building materials

Properties
surface-consolidating, siloxane-modified, highly water-repellent, high penetration capacity, absorbency-regulating, adhesion-promoting, water-dilutable

Notes
dilute primer with water if necessary, so that it does not dry glossy

Approx. consumption	0.10 - 0.40 l/m² per paint coat
Appearance	transparent, slightly yellowish
Colour shade	yellowish pigmentation
Application	

StoPrim Plex

Water-based acrylate deep-acting primer, tested for harmful substances

Area of application
exterior and interior, on mineral and organic substrates and coatings

Properties
absorbency-regulating, surface-consolidating, adhesion-promoting, solvent- and plasticiser-free, low-emission, TÜV seal of quality - externally monitored, free from substances that contribute to "black dust" on walls

Approx. consumption	0.10 - 0.40 l/m² per paint coat
Colour shade	farblos
Application	

StoPrim Silikat

Water-based, silicate deep-acting primer

Area of application
exterior and interior, on mineral substrates, as a priming coat before subsequent emulsion silicate coatings

Properties
silicate deep-acting primer, water-dilutable, absorbency-regulating, surface-consolidating, adhesion-promoting, good penetration capacity

Notes
dilute primer with water if necessary, so that it does not dry glossy, protect sensitive areas, e.g. glass, marble, varnished surfaces or those to be varnished

Approx. consumption	0.15 - 0.60 l/m² per paint coat
Colour shade	farblos
Application	

Organic undercoats and intermediate paint coats

Sto-Primer

Filled, pigmented, organic undercoat

Area of application
exterior, on mineral and organic substrates, for organic and silicone resin renders, for modified, mineral renders, for dispersion silicate renders, for finishing renders with Lotus-Effect® Technology

Properties
adhesion-promoting, absorbency-regulating, prolongs the open time of the finishing render during application, alkali-resistant, permeable to water vapour and CO_2, pigmented

Notes
only weather-resistant to a limited extent without a finishing coat

Approx. consumption	0.30 kg/m² per paint coat
Appearance	filled
Colour shade	white StoColor
Application	

StoPrep Isol Q

Water-based, stain-blocking, cationic primer

Area of application
exterior, interior, especially suitable for organic finishing renders, silicone resin finishing renders, and dispersion silicate plasters, for insulating water-soluble ingredients, e.g. for gypsum plasterboards, particleboards, for coating products with QuickSet Technology on mineral substrates, for substrates with different absorption capacity, for alkaline substrates

Properties
highly isolating, insulating for alkalinity-related stains and colour shade differences in the finish, insulating against nicotine stains, soot stains, water stains, insulating against discolouring of wood constituents, e.g. lignin in particleboards, gypsum plasterboards, very good adhesion, dries quickly due to a cationic binder, preserves early rainproofing QuickSet properties on new and mineral substrates, reduces substrate absorbency, adhesion-promoting

Approx. consumption	0.35 kg/m² paint brush, roller 0.50 kg/m² as spray application
Appearance	filled
Colour shade	white
Application	

Silicate undercoats and intermediate paint coats

StoPrep Miral

Filled, pigmented, silicate undercoat

Area of application
exterior, on mineral substrates, for finishing renders with Lotus-Effect® Technology, silicone resin, silicate, or mineral finishing render

Properties
on a silicate base, organic content < 5 %, adhesion-promoting, absorbency-regulating, CO_2 and water vapour permeable, pigmented

Notes
StoPrep Miral is not a finishing coat

Approx. consumption	0.30 - 0.40 kg/m² per paint coat
Appearance	filled
Colour shade	white StoColor
Application	

Stain-blocking primers

StoPrim LP

Solvent-containing, stain-blocking primer

Area of application
exterior, isolates nicotine, soot, and water stains, as well as discolouring wood constituents (lignin), especially suitable for subsequent coatings with facade paints

Properties
isolating undercoat for water-soluble marks, solvent-dilutable, pigmented (LP), aromatic content: < 0.5 %, absorbency-regulating, low-odour

Notes
only weather-resistant to a limited extent without a finishing coat

Approx. consumption	0.13 - 0.15 l/m² per paint coat
Appearance	white pigmentation
Colour shade	white
Application	

StoPrim LQ

Solvent-containing, isolating, filled primer

Area of application
exterior, isolates nicotine, soot, and water stains, as well as discolouring wood constituents (lignin), especially suitable for subsequent coatings with renders

Properties
isolating undercoat for water-soluble marks, solvent-dilutable, pigmented, filled (LQ), aromatic content: < 1 %, absorbency-regulating, low-odour

Notes
only weather-resistant to a limited extent without a finishing coat

Approx. consumption	0.20 - 0.30 kg/m² per paint coat
Appearance	white pigmentation filled
Application	

Adhesion primers

StoPrep Contact

Bonding agent for smooth substrates

Area of application
exterior and interior, as a bonding agent for plasters and fillers on smooth, non-absorbent wall and ceiling areas, e.g. smooth concrete, wood particle boards, gypsum plasterboards, and ceramic tiles, suitable as a bonding agent for gypsum, lime, and lime-cement plaster

Properties
adhesion-promoting, filled, alkali-resistant

Notes
when using the product in exteriors, in wet interior areas, or when applying lime-cement renders on top, add 20 weight percent cement to the material, if applying with a 4 mm notched trowel, it is possible to add up to 35 weight percent cement to the material

Approx. consumption	0.20 - 0.40 kg/m² paint brush, roller 0.40 - 0.60 kg/m² as spray application 1.50 - 2.00 kg/m² with notched trowel (4 x 4)
Appearance	matt
Colour shade	white
Application	can be mixed with cement CEM I 32.5, CEM I 52.5R, or StoFlexyl Cement

StoPrim Active

Two-component corrosion-proofing adhesion primer on an epoxy resin base

Area of application
exterior and interior, as an adhesion primer for e.g. glasal-coated panels and fibre cement slabs, as protection against corrosion (exterior), metal, wood and engineered wood, powder lacquering

Properties
highly adhesion-promoting, very high level of protection against corrosion, two-component

Approx. consumption	0.08 - 0.10 l/m² per paint coat
Appearance	silk gloss in accordance with EN 13300
Colour shade	white
Application	

Organic fillers

StoArmat Classic S1

Organic, cement-free reinforcing compound/base coat with large texturing grain, non-combustible in accordance with EN 13501, basalt-fibre-modified

Area of application
exterior, on mineral and organic substrates, as a reinforcing compound/base coat for StoTherm Classic® S1, as a reinforcing compound/base coat for StoVentec facades, as a levelling filler, as a renovation filler, not suitable for horizontal or sloping surfaces that are exposed to weather conditions

Properties
basalt-fibre-modified, cement-free, reaction to fire: class A2-s1, d0 in accordance with EN 13501-1, non-combustible, reaction to fire in the StoTherm Classic® S1 system: class A2-s1, d0 in accordance with EN 13501-1, non-combustible, mineral extenders, basalt-modified, very good application properties, highly reliable application thanks to additional large texturing grain, excellent application properties

Notes
crack extension: approx. 2 %, Impact resistance: > 15 joules are possible with appropriate system build-up.

Approx. consumption	3.50 - 4.50 kg/m² as reinforcing compound on EPS foam boards 4.50 - 6.50 kg/m² as reinforcing compound on mineral wool insulation boards
Colour shade	white StoColor
Application	

StoFlexyl

Organic filler for waterproofing and for protection from moisture

Area of application
exterior, as a primer, as a bonding mortar, as a filler, as a reinforcing compound, as an undercoat, for protection from moisture

Properties
provides protection against moisture in the plinth area and in the soil, good adhesion on bitumen substrates, highly versatile in use, sufficiently weather-resistant for use in plinth areas, crack extension: as reinforcement with mesh, approx. 2 %

Approx. consumption	3.90 kg/m² waterproofing (layer thickness [>=] 3.0 mm) 2.00 kg/m² bonding 0.50 kg/m² 2-fold slurry-applied moisture protection coat (approx. 0.7 mm) 1.30 kg/m² reinforcement
Colour shade	grey/white
Application	must be mixed with StoFlexyl Cement / cement CEM I or CEM II A/LL or CEM II B/LL parts by weight 1.0 : 1.0, as a moisture protection coat: additionally dilute with approx. 10 % water

StoFlexyl Cement

Special cement for StoFlexyl

Area of application
exterior, in combination with StoFlexyl

Properties
special cement for StoFlexyl type CEM II B-LL 42.5 R

Approx. consumption	3.90 kg/m² waterproofing 2.00 kg/m² bonding 0.50 kg/m² primer and moisture protection coat 1.30 kg/m² reinforcement
Appearance	white Portland cement
Colour shade	white
Application	see the Technical Data Sheet for StoFlexyl

Mineral fillers

StoLevell Reno

Mineral, float-finishable, fibre-reinforced filler, organically modified

Area of application
exterior and interior, renovation mortar for the refurbishment and overcoating of mineral and almost all organic substrates, for bonding insulation boards and render carrier boards to mineral or organic, non-elastic substrates, can be used as a universal bonding agent

Properties
fibre-reinforced, good adhesion to substrate, crack-bridging if embedded mesh is used, hydrophobic, float-finishable, water vapour permeable, resistant to frost and weathering

Notes
quantity required depends on substrate and insulant type, see Technical Data Sheet for detailed information

Approx. consumption	1.28 kg/m² per mm layer thickness
Colour shade	natural white
Application	

StoLevell Combi plus

Mineral combination mortar for bonding, reinforcing and renovating; fibre-reinforced, float-finishable

Area of application
exterior and interior, renovation mortar for the refurbishment and overcoating of mineral and almost all organic substrates, for bonding insulation boards and render carrier boards to mineral or organic, non-elastic substrates, for producing thin- to medium-layer reinforcing coats, together with a paint system it can be used in the plinth area, can be used as a universal bonding agent, as a textured or float-finished finishing plaster/render onto a reinforcing layer of StoLevell Combi plus with a paint system, as adhesive and reinforcing compound for StoTherm Vario and StoTherm Mineral

Properties
fibre-reinforced, high adhesive strength and adhesion to substrate, highly permeable to water vapour, suitable for float-finishing and texturing, highly water-repellent, highly weather-resistant

Approx. consumption	4.00 - 7.00 kg/m² bonding 5.00 - 8.00 kg/m² reinforcement 1.28 kg/m² per mm layer thickness
Colour shade	natural white
Application	

Base coats

StoArmat Classic plus F/M/G

Organic, cement-free reinforcing compound/base coat

Area of application
exterior, on mineral and organic substrates, as a reinforcing compound/base coat for StoTherm Classic®, as a reinforcing compound/base coat for StoVentec facades, as a levelling filler, as a renovation filler

Properties
cement-free, ready-to-use, very good application properties, high application reliability, good filling properties, excellent application properties

Notes
crack extension: approx. 2 %, Impact resistance: > 15 joules are possible with appropriate system build-up.

Approx. consumption	3.50 - 9.50 kg/m² as reinforcing compound on EPS foam boards 4.50 - 10.00 kg/m² as reinforcing compound on mineral wool insulation boards
Colour shade	white StoColor
Application	

StoArmat Classic plus QS F/M/G

Organic, cement-free reinforcing compound/base coat with early rainproofing properties

Area of application
exterior, on mineral and organic substrates, as a reinforcing compound/base coat for StoTherm Classic®, as a reinforcing compound/base coat for StoVentec facades, as a levelling filler, as a renovation filler

Properties
early rainproofing with QuickSet Technology, cement-free, ready-to-use, very good application properties, high application reliability, good filling properties, excellent application properties

Notes
crack extension: approx. 2 %, Impact resistance: > 15 joules are possible with appropriate system build-up.

Approx. consumption	3.50 - 9.50 kg/m² as reinforcing compound on EPS foam boards 4.50 - 10.00 kg/m² as reinforcing compound on mineral wool insulation boards
Colour shade	white StoColor
Application	

Lightweight base coats

StoMiral® FL Vario

Fibre-reinforced lightweight base coat in accordance with EN 998-1

Area of application
exterior and interior, lightweight base coat on insulating masonry, for mineral and organic finishing renders, as a two-layer base coat with additional reinforcement

Properties
fibre-reinforced lightweight render, type II, with organic lightweight aggregates (EPS), suitable for glass fibre mesh reinforcement, very good application properties, can be coated with any Sto finishing render

Approx. consumption	0.83 kg/m² per mm layer thickness
Appearance	natural white
Colour shade	natural white
Application	

Finishing renders

Paper Museum, Düren, DE
Photo: Guido Erbring, Cologne, DE

Overview of finishing renders

Product	Technology	Texture	Grain sizes	Water vapour diffusion	Water permeability w /water absorption Wc	Film protection (encapsulated)	Colour range
iQ INTELLIGENT TECHNOLOGY							
Stolit AimS®	emulsion	K/MP	1.0 - 3.0 / MP 0.8	V2	w3	free	
StoLotusan®	Lotus-Effect® Technology optional X-black Technology	K/MP	1.0 - 3.0 / MP 0.8	V1	w3	enhanced	
StoSilco® blue	blue Technology	K/MP	1.0 - 3.0 / MP 0.8	V1	w3	free	
Best standard							
StoSilco®	silicone resin optional X-black Technology	K/R/MP	1.0 - 3.0 / MP 0.8	V1	w3	enhanced	
Stolit®	emulsion optional X-black Technology	K/R/MP	1.0 - 6.0 / MP	V2	w3	enhanced	
Stolit® Effect	emulsion optional X-black Technology	MP	3.0	V2	w3	yes	
Stolit® Milano	emulsion optional X-black Technology	fine textured render	0.1	V2	w3	yes	
StoSil®	silicate	K/R/MP	1.0 - 3.0 / MP 0.8	V1	w2	yes	
Basics							
StoNivellit®	emulsion	fine textured render, float-finishable	0.5	V1	w2	free	
StoSuperlit®	emulsion	natural stone render	2.0	V1	w2	free	

■■ excellent
■ good
□ to a limited extent

tintable in accordance with the StoColor System
begrenzt tönbar nach StoColor System bzw. nach Farbtonkarte
colour shade from collection

Class in accordance with EN 1062-1

Wasserdampfdiffusion		Water permeability	
V1	high	**w1**	high
V2	medium	**w2**	medium
V3	low	**w3**	low

Class in accordance with EN 1015-18

Water absorption	
Wc1	high
Wc2	medium
Wc3	low

IQ INTELLIGENT TECHNOLOGY

StoLotusan® K/MP

Finishing render with Lotus-Effect® Technology

Area of application
exterior, on masonry, insulated and rainscreen cladding facades with a base coat, on mineral and organic substrates, not suitable for horizontal or sloping surfaces that are exposed to weather conditions

Properties
render in accordance with EN 15824, Lotus-Effect® Technology: dirt runs off with the rain, strongly supported self-cleaning effect when exposed to rain, A2-s1, d0 in accordance with EN 13501-1, with encapsulated film protection, excellent application, very high CO_2 and water vapour permeability, very highly weather-resistant, with high-quality marble grains made of natural deposits

Notes
if the selected colour shade has a light reflectance value ≥ 20, no additional finishing coat is necessary

Sto iQ Intelligent Technology

Approx. consumption	K 1.0	1.90 kg/m²
	K 1.5	2.40 kg/m²
	K 2.0	3.20 kg/m²
	K 3.0	4.30 kg/m²
	MP	1.50 - 4.00 kg/m² depending on the texture
Appearance	as a stippled texture (K) or free-style textured render (MP)	
Colour shade	white StoColor	
Application		

StoSilco® blue K/MP

Silicone resin finishing render without biocide film protection

Area of application
exterior, on masonry, insulated and rainscreen cladding facades with a base coat, on mineral and organic substrates, not suitable for horizontal or sloping surfaces that are exposed to weather conditions, optimal application in combination with structural moisture proofing of the facade

Properties
render in accordance with EN 15824, genuine silicone resin render for reliable application and long-lasting facades, without biocide film protection, works on natural principles, reduced bioavailability and low susceptibility to soiling, A2-s1, d0 in accordance with EN 13501-1, solvent- and plasticiser-free in accordance with VdL directive 01, highly permeable to water vapour, slightly water permeable, with high-quality marble grains made of natural deposits

Notes
light reflectance value ≥ 20 possible without additional finishing coat, depending on the project and application, if necessary, carry out additional measures for protection against microorganisms:
a. recommendation: apply the plinth offset to the facade (splash zone)
b. additional coating with facade paint
c. non-structural moisture protection measures for the facade

Sto iQ Intelligent Technology

Approx. consumption	K 1.0	1.60 - 2.00 kg/m²
	K 1.5	2.20 - 2.60 kg/m²
	K 2.0	2.80 - 3.40 kg/m²
	K 3.0	4.00 - 4.60 kg/m²
	MP	1.50 - 4.00 kg/m² depending on the application
Appearance	as a stippled texture (K) or free-style textured render (MP) as a float-finished, fine textured render	
Colour shade	white StoColor	
Application		

Stolit AimS® K/MP

Functional finishing render made of/with renewable resources

Area of application
exterior, on masonry with a load-bearing base coat, on insulated and rainscreen cladding facades, on mineral and organic render bases, external wall insulation systems with "Blue Angel" certification

Properties
high-quality finishing render in accordance with EN 15824 made of/with renewable resources, without biocide film protection, with natural protection against algae and fungal attack, highly weather-resistant with silicone resin emulsion, slightly water permeable, reaction to fire: class A2-s1, d0 in accordance with EN 13501-1, non-combustible, solvent-free and plasticiser-free in accordance with VdL directive 01, highly permeable to water vapour, with high-quality marble grains made of natural deposits

Notes
float-finished, washed fine textured renders: a double paint coat may be required to equalise the colour shade., not suitable for horizontal or sloping surfaces that are exposed to weather conditions, depending on the project and application: carry out additional measures for protection against microorganisms:
-recommendation for the splash zone: apply the plinth offset to the facade
-additional coating with a facade paint
-structural moisture protection measures for the facade, e.g. eaves

Sto iQ Intelligent Technology

Approx. consumption	K 1.0	1.60 - 2.00 kg/m²
	K 1.5	2.20 - 2.60 kg/m²
	K 2.0	2.80 - 3.40 kg/m²
	K 3.0	4.00 - 4.60 kg/m²
	MP	1.70 kg/m² for each mm of layer thickness
Appearance	as a stippled texture (K) or free-style textured render (MP)	
Colour shade	white StoColor	
Application		

Silicone resin finishing renders

StoSilco® K/R/MP

Silicone resin finishing render

Area of application
exterior, on masonry, insulated and rainscreen cladding facades with a base coat, on mineral and organic substrates, not suitable for horizontal or sloping surfaces that are exposed to weather conditions

Properties
render in accordance with EN 15824, genuine silicone resin render for reliable application and long-lasting facades, A2-s1, d0 in accordance with EN 13501-1, with encapsulated film protection, very high CO_2 and water vapour permeability, highly weather-resistant, hydrophobic capillary effect, highly water-repellent, water-dilutable, with high-quality marble grains made of natural deposits

Notes
light reflectance value ≥ 15 possible without additional finishing coat

Approx. consumption	K 1.0	2.00 kg/m²
	K 1.5	2.30 kg/m²
	K 2.0	3.00 kg/m²
	K 3.0	4.30 kg/m²
	R 1.5	2.20 kg/m²
	R 2.0	2.70 kg/m²
	R 3.0	3.50 kg/m²
	MP	1.50 - 4.00 kg/m² depending on the texture
Appearance	as stippled (K), rilled (R), or freestyle textured render (MP)	
Colour shade	white StoColor	
Application		

StoSilco® QS K/R/MP

Silicone resin finishing render with early rainproofing properties

Area of application
exterior, on organic substrates, on mineral substrates to a limited extent, especially for damp and cold weather (min. +1 °C to max. +15 °C), not suitable for horizontal or sloping surfaces that are exposed to weather conditions, on masonry, insulated and rainscreen cladding facades with a base coat

Properties
render in accordance with EN 15824, increased reliability for application during damp and cold weather, with early rainproofing properties (QuickSet Technology), 6 h after application night-frost-proof down to -5 °C, with encapsulated film protection, highly permeable to CO_2 and water vapour, highly weather-resistant, highly water-repellent, with high-quality marble grains made of natural deposits

Notes
limited early rainproofing properties on new, mineral substrates, use StoPrep QS as alkali-blocking primer on mineral substrates in order to preserve all QS properties

Approx. consumption	K 1.0	2.00 kg/m²
	K 1.5	2.40 kg/m²
	K 2.0	3.20 kg/m²
	K 3.0	4.30 kg/m²
	R 1.5	2.20 kg/m²
	R 2.0	2.90 kg/m²
	R 3.0	4.00 kg/m²
	MP	1.50 - 4.00 kg/m² depending on the texture
Appearance	as stippled (K), rilled (R), or freestyle textured render (MP)	
Colour shade	white StoColor	
Application		

Emulsion-based finishing renders

Stolit® K/R/MP

Organic finishing render

Area of application
exterior, on masonry, insulated and rainscreen cladding facades with a base coat, on mineral and organic substrates, not suitable for horizontal or sloping surfaces that are exposed to weather conditions

Properties
render in accordance with EN 15824, maximum reliability with regard to application, value retention, colour shade, and stability, A2-s1, d0 in accordance with EN 13501-1, with encapsulated film protection, shockproof and highly resistant to cracks and hail when combined with StoTherm Classic®, highly permeable to water vapour, highly water-repellent, weather-resistant, water-dilutable, with high-quality marble grains made of natural deposits

Notes
light reflectance value ≥ 15 possible without additional finishing coat

Approx. consumption	K 1.0	1.80 kg/m²
	K 1.5	2.30 kg/m²
	K 2.0	3.00 kg/m²
	K 3.0	4.30 kg/m²
	K 6.0	6.00 kg/m²
	R 1.5	2.20 kg/m²
	R 2.0	2.70 kg/m²
	R 3.0	3.50 kg/m²
	R 6.0	5.60 kg/m²
	MP	1.50 - 4.00 kg/m² depending on the texture
Appearance	as stippled (K), rilled (R), or freestyle textured render (MP)	
Colour shade	white StoColor	
Application		

Stolit® QS K/R/MP

Organic finishing render with early rainproofing properties

Area of application
exterior, on organic substrates, on mineral substrates to a limited extent, especially for damp and cold weather (min. +1 °C to max. +15 °C), not suitable for horizontal or sloping surfaces that are exposed to weather conditions, on masonry, insulated and rainscreen cladding facades with a base coat

Properties
render in accordance with EN 15824, increased reliability for application during damp and cold weather, with early rainproofing properties (QuickSet Technology), 6 h after application night-frost-proof down to -5 °C, with encapsulated film protection, highly permeable to water vapour, highly weather-resistant, highly water-repellent, with high-quality marble grains made of natural deposits

Notes
limited early rainproofing properties on new, mineral substrates, use StoPrep QS as alkali-blocking primer on mineral substrates in order to preserve all QS properties

Approx. consumption	K 1.0	1.80 kg/m²
	K 1.5	2.30 kg/m²
	K 2.0	3.00 kg/m²
	K 3.0	4.30 kg/m²
	R 1.5	2.20 kg/m²
	R 2.0	2.70 kg/m²
	R 3.0	4.00 kg/m²
	MP	1.50 - 4.00 kg/m² depending on the texture
Appearance	as stippled (K), rilled (R), or freestyle textured render (MP)	
Colour shade	white StoColor	
Application		

Stolit® Effect

Organic, coarse-grained free-style textured render

Area of application
exterior, on masonry, insulated and rainscreen cladding facades with a base coat, on mineral and organic substrates, as a finishing render or as dash receiver for special effect aggregates from Sto, not suitable for horizontal or sloping surfaces that are exposed to weather conditions

Properties
render in accordance with EN 15824, large texturing grain ensures free textural design and guarantees minimum layer thickness, maximum reliability with regard to application, value retention, colour shade, and stability, A2-s1, d0 in accordance with EN 13501-1, with encapsulated film protection, shockproof and highly resistant to cracks and hail when combined with StoTherm Classic®, highly permeable to water vapour, highly water-repellent, weather-resistant, water-dilutable, with high-quality marble grains made of natural deposits

Notes
see Services/Silo overview in the product guide or price list, if the selected colour shade has a light reflectance value ≥ 15, no additional finishing coat is necessary

Approx. consumption	3.50 - 5.50 kg/m²
Appearance	surface can be combined with selected special effect aggregates from Sto for a brush texture coarse-grained free-style textured render
Colour shade	white StoColor
Application	

Stolit Milano®

Organic, ultra fine-grained, free-style textured render

Area of application
exterior, on masonry, insulated and rainscreen cladding facades with a base coat, on mineral and organic substrates, thin-layer, as a multi-layer build-up of finishing render, not suitable for horizontal or sloping surfaces that are exposed to weather conditions

Properties
render in accordance with EN 15824, free-style textured render for fine-textured, freely-decorated surfaces, fine graining under 0.1 mm, good suitability for sanding, water-repellent, water vapour permeable, weather-resistant

Notes
if the selected colour shade has a light reflectance value ≥ 15, no additional finishing coat is necessary, with encapsulated film protection, sanded surfaces appear lighter

Approx. consumption	1.50 kg/m² 1 filler base coat 0.50 kg/m² intermediate filler coating 0.20 - 0.30 kg/m² spot-smoothed finish (per application cycle) 2.20 - 2.50 kg/m² overall build-up of Stolit Milano[R-Markenzeichen]
Appearance	fine to coarse spotted trowelling technique additional coating possible, e.g. with lasure in various StoSignature surface techniques in accordance with separate application instructions
Colour shade	white StoColor
Application	

Silicate finishing renders

StoSil® K/R/MP

Silicate finishing render

Area of application
exterior, on masonry, insulated and rainscreen cladding facades with a base coat, on mineral and organic substrates, not suitable for horizontal or sloping surfaces that are exposed to weather conditions

Properties
render in accordance with EN 15824, ready-to-use silicate render, matt, mineral surface, A2-s1, d0 in accordance with EN 13501-1, less than 6 organic components, with encapsulated film protection, very highly permeable to water vapour, water-repellent, weather-resistant, with high-quality marble grains made of natural deposits

Notes
protect sensitive areas (e.g. glass, marble, varnished surfaces or those to be varnished)

Approx. consumption	K 1.0	2.20 kg/m²
	K 1.5	2.40 kg/m²
	K 2.0	3.00 kg/m²
	K 3.0	4.30 kg/m²
	R 1.5	2.40 kg/m²
	R 2.0	3.00 kg/m²
	R 3.0	3.90 kg/m²
	MP	1.50 - 4.00 kg/m² depending on the texture
Appearance	as stippled (K), rilled (R), or freestyle textured render (MP)	
Colour shade	white, light reflectance value > 30 % StoColor	
Application		

Emulsion-based finishing renders

StoSuperlit®

Organic natural stone render

Area of application
exterior, on masonry, insulated and rainscreen cladding facades with a base coat, on mineral and organic substrates, particularly in plinth areas and passages, not suitable for horizontal or sloping surfaces that are exposed to weather conditions

Properties
render in accordance with EN 15824, not susceptible to soiling, robust, transparent binding agent with coloured stone granulate, highly weather-resistant, water vapour permeable, without biocide film protection

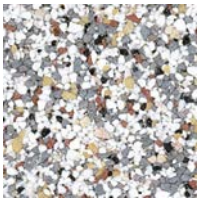
Notes
check the suitability of dark colour shades on EWIS in each use case, match the substrate colour shade to the StoSuperlit colour shade, StoSuperlit Protect can be used as an additional protective sealing coat

Approx. consumption	5.00 - 6.00 kg/m²
Appearance	natural stone render
Colour shade	special colour shades PG12 available on request at a surcharge (minimum order quantity 46 kg)
Application	


403 (00152-061)
LRV 21


404 (00152-076)
LRV 46


405 (00152-062)
LRV 13

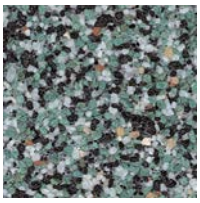

409 (00152-063)
LRV 43

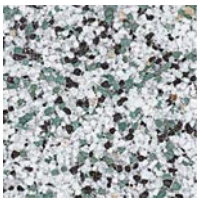

411 (00152-077)
LRV 35


412 (00152-078)
LRV 63


413 (00152-064)
LRV 24


414 (00152-079)
LRV 43


415 (00152-065)
LRV 22


416 (00152-080)
LRV 43

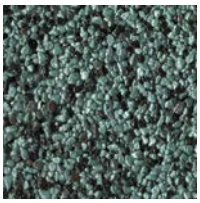

800 (00152-030)
LRV 68


818 (00152-041)
LRV 42


820 (00152-043)
LRV 44

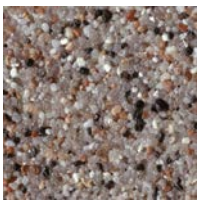

821 (00152-044)
LRV 54


824 (00152-047)
LRV 41

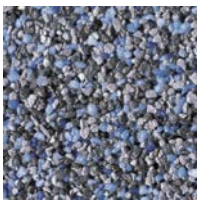

827 (00152-050)
LRV 15


828 (00152-051)
LRV 7


829 (00152-052)
LRV 13


831 (00152-054)
LRV 24


832 (00152-055)
LRV 11


833 (00152-056)
LRV 16


834 (00152-057)
LRV 17


836 (00152-059)
LRV 21


841 (00152-083)
LRV 9


842 (00152-084)
LRV 12

StoNivellit®

Organic finishing render, fine-grained

Area of application
exterior, on masonry, insulated facades and rainscreen cladding facades with a base coat, on mineral and organic substrates, only with a paint coat, not suitable for horizontal or sloping surfaces that are exposed to weather conditions

Properties
render in accordance with EN 15824, thin-layer fine textured render for float-finished surfaces, fine graining under 0.5 mm, silicate-enhanced organic binding agent, slightly flexible, water-repellent, highly permeable to water vapour, with high-quality marble grains made of natural deposits

Notes
do not coat with StoColor Lotusan® or StoColor Lotusan® G facade paint, protect sensitive areas, e.g. glass, marble, varnished surfaces or those to be varnished, especially with fine-textured render surfaces, prepare the substrate carefully in order to avoid markings from the substrate showing through

Approx. consumption	1.70 kg/m² per mm layer thickness
Appearance	fine textured render float-finished surface only with an additional paint coat
Colour shade	white StoColor
Application	

Supplementary products

StoSuperlit Protect

Transparent protective coating

Area of application
exterior, for coating old and new Sto natural stone render surfaces, as a protective coating on organic finishing renders and paints (use diluted), not suitable for damp substrates or substrates with moisture underneath, not suitable for surfaces subject to foot or vehicle traffic, only with limited guarantee for use on sloping StoSuperlit surfaces exposed to weather conditions

Properties
transparent, weather-resistant, protective, contains a highly effective UV light protection combination, silk matt, water-dilutable, water vapour permeable, without biocide film protection

Notes
without preventive protection against algae and fungal attack, transparent sealing coat, for the best transparency, only use the product on dry substrates in good drying conditions

Approx. consumption	250 g/m² on 2.0 grain natural stone render, per paint coat 160 g/m² on smooth substrate, per paint coat
Appearance	transparent silk matt
Colour shade	transparent
Application	

StoAdditiv WE

Water-based drying accelerator

Area of application
exterior, use only in the finishing renders Stolit® and StoSilco® K/R/MP (not in products with QuickSet Technology)

Properties
drying is promoted at temperatures of ≥ +7 °C, solvent-free

Notes
Mix the additive with the finishing render directly before application., Apply the finishing render promptly after adding the additive.

Format	bottle: 500 ml (from 2020) bottle: 250 ml (only available until approx. Q1 / 2020)

Facade paints

Student residence, Münster, DE
Photo: Guido Erbring, Cologne, DE

Overview of facade paints

Product	Technology	Klasse nach EN 1062-1			Filled	Film protection (encapsulated)	Colour range
		Water vapor diffusion	Water vapour permeability	CO^2 permeability			
iQ INTELLIGENT TECHNOLOGY							
StoColor Dryonic®	Dryonic Technology	V2	W3	C1	–	free	●
StoColor Dryonic® S	Dryonic Technology X-black Technology SunBlock Technology	V2	W3	C1	–	free	●
StoColor Dryonic® G	Dryonic Technology	V2	W3	C1	–	yes	●
StoColor X-black	X-black Technology	V2	W3	C1	–	yes	●
StoColor Lotusan® AimS	Lotus-Effect® Technology	V1	W3	C0	–	free	◐
StoColor Lotusan®	Lotus-Effect® Technology	V1	W3	C0	–	free	◐
StoColor Lotusan® G	Lotus-Effect® Technology	V1	W3	C0	–	yes	◐
Best standard – Hard-wearing/reliable							
StoColor Silco	genuine silicone resin paint	V1	W3	C0	–	yes	◐
StoColor Silco QS	genuine silicone resin paint	V1	W3	C0	–	yes	◐
StoColor Silco G	genuine silicone resin paint	V1	W3	C0	–	enhanced	◐
StoColor Silco Fill	silicone resin-enhanced	V1	W3	C0	yes	yes	◐
StoColor Silco G QS	genuine silicone resin paint	V1	W3	C0	–	enhanced	◐
StoColor Solical	silicate colloidal silica	V1	W3	C0	–	free	◐
StoColor Solical G	silicate colloidal silica	V1	W3	C0	–	yes	◐
StoColor Top	pure acrylate	V3	W3	C1	–	yes	●
Best standard – Brilliant/intense colour shades							
StoColor Maxicryl	pure acrylate	V2	W3	C0	–	yes	●
StoColor Metallic	pure acrylate	V2	W3	C0	–	free	◐

● tintable in accordance with the StoColor System
◐ limited tintability in accordance with the StoColor System

Class in accordance with EN 1062-1

Water vapor diffusion		Water vapour permeability		CO2 permeability	
V1	high	**W1**	high	**C0**	open
V2	medium	**W2**	medium	**C1**	inhibiting
V3	low	**W3**	low		

Overview of facade paints

Product	Technology	Class in accordance with EN 1062-1			Filled	Film protection (encapsulated)	Colour range
		Water vapour diffusion	Water vapour permeability	CO_2 permeability			
Basics							
StoColor Jumbosil	emulsion	V1	W3	C0	–	yes	
StoColor Crylan	emulsion	V2	W3	C0	–	yes	
StoColor S fein/grob	emulsion	V2	W3	C0	yes	yes	
StoColor Lastic	emulsion	V3	W3	C0	yes	yes	
StoColor Fibrasil	emulsion	V2	W3	C0	yes	yes	
StoColor Silco Elast	silicone resin-enhanced	V3	W3	C0	yes	yes	
StoColor Sil Lasura	silicate	V1	W3	C0	–	free	
StoColor Sil	silicate	V1	W3	C0	–	free	

tintable in accordance with the StoColor System
limited tintability in accordance with the StoColor System

Class in accordance with EN 1062-1

Water vapour diffusion		Water vapour permeability		CO_2 permeability	
V1	high	**W1**	high	**C0**	open
V2	medium	**W2**	medium	**C1**	inhibiting
V3	low	**W3**	low		

IQ INTELLIGENT TECHNOLOGY

StoColor Dryonic®

Facade paint with Dryonic® Technology, biomimetic principle for dry facades against algae and fungal attacks, without biocide film protection

Area of application
exterior, on mineral and organic substrates, on EWIS, on almost all conventional construction substrates, on sloping substrates not sensitive to humidity up to an inclination of 45°, project-specific consultation is necessary for EWIS with inclined surfaces, on concrete, on trapezoidal profiled sheet facades (e.g. coated using the coil coating method), on galvanised metal substrates (e.g. rainwater pipes), on fibre cement facades, on high pressure laminate facades, also suitable for roofs with an inclination > 3°, e.g. cement bricks, clay bricks, fibre cement (asbestos-free), sheet metal coverings

Properties
biomimetic principle for fastest drying after rain or dew formation, also available with X-black Technology: heat shield against solar heating, highest whiteness, high level of colour shade variety and stability, minimum extender material breakdown (not easily scuffed), high level of resistance to mechanical stress, texture-retaining, pure acrylate binding agent, CO_2 diffusion: class C1 in accordance with EN 1062-1, very good hiding power, water vapour permeable, alkali-resistant, very good adhesion to all substrates commonly used in construction, without biocide film protection

Sto iQ Intelligent Technology

Approx. consumption	0.12 - 0.15 l/m² per paint coat
Appearance	matt (G3) in accordance with EN 1062-1 depending on the angle, the surface seems silk matt
Colour shade	white StoColor
Application	

StoColor Dryonic® G

Facade paint with Dryonic® Technology, biomimetic principle for dry facades against algae and fungal attacks, with encapsulated film protection

Area of application
exterior, on mineral and organic substrates, on EWIS, on almost all conventional construction substrates, on sloping substrates not sensitive to humidity up to an inclination of 45°, project-specific onsultation is necessary for EWIS with inclined surfaces, on concrete, on trapezoidal profiled sheet facades (e.g. coated using the coil coating method), on galvanised metal substrates (e.g. rainwater pipes), on fibre cement facades, on high pressure laminate facades, wood that is dimensionally stable to a limited extent (e.g. roof soffits)

Properties
biomimetic principle for fastest drying after rain or dew formation, highest whiteness, high level of colour shade variety and stability, minimum extender material breakdown (not easily scuffed), high level of resistance to mechanical stress, texture-retaining, pure acrylate binding agent, CO_2 diffusion: class C1 in accordance with EN 1062-1, very good hiding power, water vapour permeable, alkali-resistant, very good adhesion to all substrates commonly used in construction, with encapsulated film protection

Sto iQ Intelligent Technology

Approx. consumption	0.12 - 0.15 l/m² per paint coat
Appearance	matt (G3) in accordance with EN 1062-1 depending on the angle, the surface seems silk matt
Colour shade	white StoColor
Application	

StoColor Dryonic® S

Facade paint with Dryonic® Technology and additional SunBlock Technology for maximum colour shade variety and stability, without biocide film protection

Area of application
exterior, on mineral and organic substrates, on EWIS, on almost all conventional construction substrates, on sloping substrates not sensitive to humidity up to an inclination of 45°, project-specific consultation is necessary for EWIS with inclined surfaces, on concrete, on trapezoidal profiled sheet facades (e.g. coated using the coil coating method), on galvanised metal substrates (e.g. rainwater pipes), on fibre cement facades, on high pressure laminate facades, also suitable for roofs with an inclination > 3°, e.g. cement bricks, clay bricks, fibre cement (asbestos-free), sheet metal coverings

Properties
biomimetic principle for fastest drying after rain or dew formation, also available with X-black Technology: heat shield against solar heating, minimum extender material breakdown (not easily scuffed), high level of resistance to mechanical stress, texture-retaining, pure acrylate binding agent, CO_2 diffusion: class C1 in accordance with EN 1062-1, very good hiding power, water vapour permeable, alkali-resistant, very good adhesion to all substrates commonly used in construction, without biocide film protection

Sto iQ Intelligent Technology

Approx. consumption	0.12 - 0.15 l/m² per paint coat
Appearance	matt (G3) in accordance with EN 1062-1 depending on the angle, the surface seems silk matt
Colour shade	white StoColor
Application	

StoColor X-black

Facade paint with X-black Technology, for reducing solar heating in case of dark colour shades

Area of application
exterior, for heat-reflective paint coats on mineral and organic substrates, for paint coats with an intense colour shade, not suitable for horizontal or sloping surfaces that are subject to weathering (does not apply to StoDeco Facade Elements)

Properties
reflects near-infrared components of sunlight, reduces solar heating of facade surfaces, increases protection against crack formation in the substrate, texture-retaining, very highly water-repellent, water vapour permeable, pure acrylate binding agent, alkali-resistant, very good adhesion, additional film protection possible, very good hiding power, especially for intense colour shades

Notes
with encapsulated film protection

Sto iQ Intelligent Technology

Approx. consumption	0.15 - 0.18 l/m² per paint coat
Appearance	matt
Colour shade	StoColor
Application	

StoColor Lotusan AimS®

Facade paint with Lotus-Effect® Technology, made of/with renewable resources, naturally against algae and fungi

Area of application
exterior, for paint coats with reduced adhesion of dirt particles on mineral and organic substrates, not suitable for horizontal or sloping surfaces that are exposed to weather conditions, e.g. joint areas in masonry, external wall insulation systems with "Blue Angel" certification

Properties
made of/with renewable resources, texture-retaining, very high CO_2 permeability, very highly permeable to water vapour, reduced wettability with water, Lotus-Effect® Technology: reduced adhesion of dirt particles and self-cleaning when exposed to rain, dirt runs off with the rain, natural protection against algae and fungi, without biocide film protection, low-tension

Sto iQ Intelligent Technology

Approx. consumption	0.17 - 0.20 l/m² per paint coat 0.34 - 0.40 l/m² for 2 coats
Appearance	matt
Colour shade	white StoColor
Application	

StoColor Lotusan®

Facade paint with Lotus-Effect® Technology, natural protection against algae and fungal attacks, without biocide film protection

Area of application
exterior, for paint coats with reduced adhesion of dirt particles on mineral and organic substrates

Properties
texture-retaining, very high CO_2 and water vapour permeability, reduced wettability with water, also available with X-black Technology: heat shield against solar heating, Lotus-Effect® Technology: reduced adhesion of dirt particles and self-cleaning when exposed to rain, dirt runs off with the rain, natural protection against algae and fungal attack, without biocide film protection, low-tension

Sto iQ Intelligent Technology

Approx. consumption	0.18 - 0.20 l/m² per paint coat
Appearance	matt
Colour shade	white StoColor
Application	

StoColor Lotusan® G

Facade paint with Lotus-Effect® Technology, with encapsulated film protection

Area of application
exterior, for paint coats with reduced adhesion of dirt particles on mineral and organic substrates

Properties
texture-retaining, very high CO_2 and water vapour permeability, reduced wettability with water, Lotus-Effect® Technology: reduced adhesion of dirt particles and self-cleaning when exposed to rain, dirt runs off with the rain, natural protection thanks to the Lotus-Effect and encapsulated film protection, low-tension

Approx. consumption	0.18 - 0.20 l/m² per paint coat
Appearance	matt
Colour shade	white
Application	

Hard-wearing/reliable

StoColor Silco

Genuine silicone resin facade paint, especially fail-proof

Area of application
exterior, on mineral and organic substrates

Properties
texture-retaining, genuine silicone resin paint (approx. 50 % of the total binding agent content) in accordance with the French standard FD T30-808, very good hiding power, highly water-repellent, highly permeable to CO_2 and water vapour, maximum resistance to soiling, low-tension, even drying, robust

Notes
with encapsulated film protection

Approx. consumption	0.18 - 0.20 l/m² per paint coat
Appearance	matt
Colour shade	white
Application	

StoColor Silco G

Genuine silicone resin facade paint, with increased encapsulated film protection, especially fail-proof

Area of application
exterior, on mineral and organic substrates

Properties
texture-retaining, genuine silicone resin paint (approx. 50 % of the total binding agent content) in accordance with the French standard FD T30-808, very good hiding power, highly water-repellent, with increased encapsulated film protection, maximum resistance to soiling, highly permeable to CO_2 and water vapour, low-tension, even drying, robust

Approx. consumption	0.18 - 0.20 l/m² per paint coat
Appearance	matt
Colour shade	white
Application	

StoColor Silco Fill

Genuine silicone resin facade paint, filled, texture-imparting

Area of application
exterior, as a covering, filled paint coat, on mineral and organic substrates

Properties
filled genuine silicone resin paint (approx. 50 % of the total binding agent content) in accordance with the French standard FD T30-808, brush render-like texture and effect, good hiding power, water-repellent, very high CO_2 and water vapour permeability, good filling capacity, low-tension

Notes
with encapsulated film protection

Approx. consumption	0.35 - 0.40 kg/m² per paint coat
Appearance	matt
Colour shade	white
Application	

StoColor Solical

Facade paint on a sol-silicate base without biocide film protection

Area of application
exterior, on mineral substrates, for renovating organic, non-elastic substrates, not suitable for horizontal or sloping surfaces that are exposed to weather conditions

Properties
texture-retaining, very good hiding power, water-repellent, highly weather-resistant, A2-s1, d0 in accordance with EN 13501-1, consists of a combination of colloidal silica and potassium silicate, very high CO_2 and water vapour permeability, maximum colour stability in the area of silicate paints, without biocide film protection, non-film-forming, solvent- and plasticiser-free, water-vapour transmission rate V: >2,000 g/(m²*d), also available with X-black Technology: heat shield against solar heating

Notes
silicate emulsion paint in accordance with DIN 18363

Approx. consumption	0.15 - 0.20 l/m² per paint coat
Appearance	matt (mineral)
Colour shade	white
Application	

StoColor Solical G

Facade paint on a sol-silicate base with encapsulated film protection

Area of application
exterior, on mineral substrates, for renovating organic, non-elastic substrates, not suitable for horizontal or sloping surfaces that are exposed to weather conditions

Properties
texture-retaining, very good hiding power, water-repellent, highly weather-resistant, A2-s1, d0 in accordance with EN 13501-1, consists of a combination of colloidal silica and potassium silicate, very high CO_2 and water vapour permeability, maximum colour stability in the area of silicate paints, with encapsulated film protection, non-film-forming, solvent- and plasticiser-free, water-vapour transmission rate V: >2,000 g/(m²*d)

Notes
silicate emulsion paint in accordance with DIN 18363

Approx. consumption	0.15 - 0.20 l/m² per paint coat
Appearance	matt (mineral)
Colour shade	white
Application	

StoColor Top

Facade paint as a universal paint, with high adhesive bond, rust-inhibiting

Area of application
exterior, on mineral and organic substrates, not suitable for horizontal or sloping surfaces that are exposed to weather conditions, not suitable for dimensionally stable wooden substrates, ideal for timber

Properties
texture-retaining, on a pure acrylate base, very good adhesion to the substrate due to special additives, not block resistant, very good hiding power, highly water-repellent, water vapour permeable, corrosion-inhibiting (flash rust)

Notes
with encapsulated film protection

Approx. consumption	0.17 - 0.19 l/m² per paint coat
Appearance	matt
Colour shade	white
Application	

Brilliant/intense colour shades

StoColor Maxicryl

Facade paint for maximum colour shade variety and stability

Area of application
exterior, for paint coats with intense colour shades on mineral and organic substrates

Properties
texture-retaining, very highly water-repellent, water vapour permeable, alkali-resistant, very good adhesion, pure acrylate binding agent, especially for intense colour shades

Notes
with encapsulated film protection

Approx. consumption	0.15 - 0.18 l/m² per paint coat
Appearance	matt
Colour shade	white
Application	

StoColor Metallic

Effect coating with metallic effect for creative interior and exterior designs, low-emission

Area of application
exterior and interior, as double finishing coat or decorative lasure onto prepared substrates, on the external wall insulation systems StoTherm Classic® and StoTherm Vario with individual release, on Sto RSC systems

Properties
coating with metallic effect, weather-resistant, highly water-repellent, without biocide film protection, almost solvent-free with only 2 g/l

Notes
only onto approved substrates, see Technical Data Sheet

Approx. consumption	0.15 - 0.20 l/m² per coat, covering 0.10 - 0.15 l/m² as a decorative lasure
Appearance	metallic appearance matt to silk gloss
Colour shade	StoColor Metallic colour fan Collection
Application	recommended tools for reworking are the Sto-Decorative Roller Cover Farfalla, the Sto-Loop Pile Roller Cover, a sponge, etc.

Basics

StoColor Jumbosil

Facade paint on an emulsion base, filled, silicone-modified

Area of application
exterior, for slightly filling, covering paint coats on mineral and organic substrates

Properties
slight filling capacity, very good drying behaviour, low-tension, water-repellent, CO_2 and water vapour permeable

Notes
with encapsulated film protection

Approx. consumption	0.20 - 0.25 l/m² per paint coat
Appearance	matt
Colour shade	white StoColor
Application	

StoColor Crylan

Facade paint on a pure acrylate base

Area of application
exterior, for highly covering paint coats on mineral and organic substrates

Properties
texture-retaining, very good hiding power, highly water-repellent, water vapour permeable, alkali-resistant

Notes
with encapsulated film protection

Approx. consumption	0.15 - 0.18 l/m² per paint coat
Appearance	matt
Colour shade	white StoColor
Application	

StoColor S

Facade paint on an emulsion base, filled, with brush render appearance

Area of application
exterior, for fine or coarse brush render textures

Properties
water vapour permeable, good filling capacity, low-tension

Notes
with encapsulated film protection

Approx. consumption	0.30 - 0.40 kg/m² per paint coat
Appearance	matt fine or coarse filling
Colour shade	white StoColor
Application	

StoColor Lastic

Facade paint on a emulsion base, cold-elastic

Area of application
exterior, as an intermediate coat and finishing coat in the Sto crack repair system for cracks with a max. width of 1.0 mm

Properties
UV-crosslinking, highly elastic, very high resistance to soiling for such a highly elastic facade paint, very good hiding power, very highly water-repellent, water vapour permeable, cold-elastic

Notes
with encapsulated film protection

Approx. consumption	0.40 l/m² per paint coat
Appearance	silk matt
Colour shade	white
Application	

StoColor Fibrasil

Facade paint for reliably bridging shrinkage and hairline cracks, fibre-filled, texture-imparting

Area of application
exterior, for bridging and filling hairline and shrinkage cracks of up to 0.1 mm width, for covering paint coats on mineral and organic substrates

Properties
very good hiding power, highly water-repellent, water vapour permeable, alkali-resistant, fibre-reinforced

Notes
with encapsulated film protection

Approx. consumption	0.20 - 0.30 l/m² per paint coat
Appearance	matt
Colour shade	white
Application	

StoColor Silco Elast

Facade paint on a silicone resin base

Area of application
exterior, for crack-bridging coatings on facades with cracks up to max. 0.2 mm, for organic and mineral substrates

Properties
very good hiding power, very highly water-repellent, water vapour permeable, elastic

Notes
with encapsulated film protection

Approx. consumption	0.30 - 0.50 l/m² per paint coat
Appearance	matt
Colour shade	white
Application	

StoColor Sil Lasura

Lasure on a silicate base

Area of application
exterior, for easily-created lasure techniques that produce sophisticated decorative effects, especially suitable for mineral and silicate substrates, as a creative finishing coat

Properties
very high CO_2 and water vapour permeability, use as lasure binding agent and as lasure thinning, without biocide film protection

Notes
not suitable for areas with an increased risk of algae and/or fungal attack

Approx. consumption	0.13 l/m² per paint coat
Appearance	brilliant, clear colour shades lasure
Colour shade	tintable with StoTint Aqua and StoColor Sil
Application	

StoColor Sil

Facade paint on a silicate base

Area of application
exterior, on mineral and silicate substrates

Properties
texture-retaining, very good hiding power, water-repellent, very high CO_2 and water vapour permeability, without biocide film protection

Approx. consumption	0.15 - 0.20 l/m² per paint coat
Appearance	matt
Colour shade	white
Application	

Supplementary products

StoAdditiv QS

Water-based drying accelerator for early rainproofing

Area of application
exterior, for flexible use in highly fluctuating temperatures during the day and at night, only for use with facade paints: StoColor Silco, StoColor Silco G, StoColor Silco Fill, StoColor Maxicryl, StoColor Jumbosil, StoColor X-black, StoCryl V 200

Properties
solvent-free, accelerates drying of Sto facade paints in wet and cold seasons

Notes
The facade paints with StoAdditiv QS are night-frost-proof down to -5 °C for 6 hours after application.

Format	amount: 0.45 l
Colour shade	yellowish

Tinting concentrates

StoColor Tint

Mass tone paint and tinter on an emulsion base

Area of application
exterior, as a mass tone paint or tinter, suitable for creating small, richly coloured areas, for tinting Sto facade paints on an emulsion base, change in gloss level of matt and glossy emulsion paints when StoColor Tint is added, tint organic renders with max. 1 % StoColor Tint, do not use for tinting silicate products

Properties
water vapour permeable, water-repellent

Notes
observe the information in the respective Technical Data Sheets, consumption depends on the area of application

Appearance	silk matt
Colour shade	lemon yellow (00304-002), maize yellow (00305-002), ochre (00306-002), signal red (00307-002), brick red (00308-002), royal blue (00309-002), emerald (00310-002), leaf green (00311-002), umber (00312-002), cigar brown (00313-002), red-brown (00314-002), black (00315-002)

lemon-yellow (00304-002)
maize-yellow (00305-002)
ochre (00306-002)
signal-red (00307-002)
brick-red (00308-002)
royal blue (00309-002)
emerald (00310-002)
leaf-green (00311-002)
umber (00312-002)
cigar-brown (00313-002)
red-brown (00314-002)
black (00315-002)

StoTint Aqua

Binder-free tinting paste

Area of application
exterior and interior, for tinting water-based coating systems

Properties
only for paints and renders/plasters

Notes
depending on the coating material, add max. 1 % parts by weight, first tint the material, then dilute it

Appearance	depending on the colour intensity and material used (paint, render/plaster)
Colour shade	ochre (02305-001), umber (02305-002), oxide red (02305-003), oxide green (02305-004), black (02305-005), lemon yellow (02305-006), golden (02305-007), cobalt blue (02305-008), brick red (02305-009), brown (02305-010)

ochre (02305-001)

umber (02305-002)

oxide-red (02305-003)

oxide-green (02305-004)

black (02305-005)

lemon-yellow (02305-006)

golden (02305-007)

cobalt-blue (02305-008)

brick-red (02305-009)

brown (02305-010)

Effect aggregates

StoEffect Terrazzo natural

Natural sand mixture

Area of application
exterior and interior, for blowing onto and then pressing into freshly applied and textured Stolit Effect surfaces

Properties
special surface effect, weather-resistant

Notes
onto suitable finishing plasters and renders

Approx. consumption	0.20 kg/m² easy to disperse 0.35 kg/m² preferred medium dispersal 0.45 kg/m² dense dispersal
Appearance	defined sand mixture in natural stone colour shades
Colour shade	from natural beige to grey
Application	with the Sto-Terrazzo Effect Gun

StoEffect Vetro

Special effect aggregates made of glass

Area of application
exterior, interior, for blowing onto freshly applied finishes, on different substrates from grain size: grain ≥ 1.5

Properties
special surface effect, weather-resistant, non-combustible, tintable in accordance with the StoColor System, depending on the project, easy to apply, recycled granulate made of mirror glass

Notes
Check the production batches on the label before starting work., If there are different batch numbers, mix the batches homogeneously first.

Approx. consumption	0.1 kg/m² light coverage 0.3 kg/m² recommended/maximum coverage
Format	fine-particle glass mixture with broken edges
Appearance	reflecting
Colour shade	whitish transparent, reflecting

Sto-Silicon Carbide

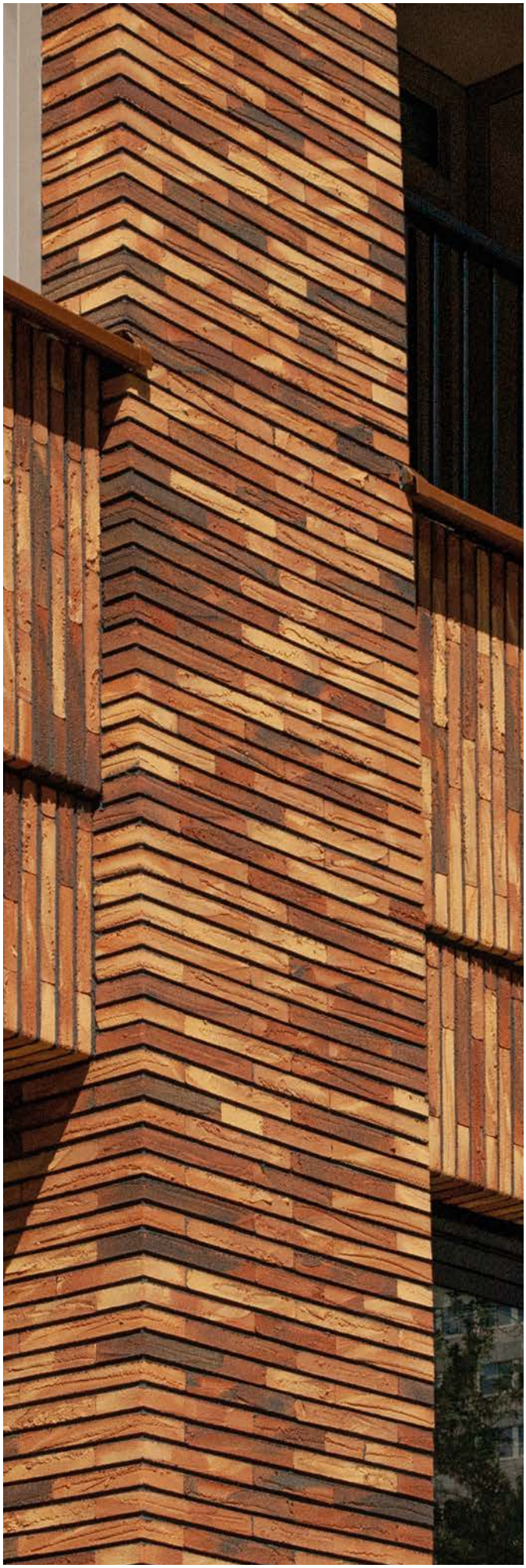
Scatter granulate, conductive, black

Area of application
conductive scatter granulate, as scatter material for achieving electrically conductive properties in combination with increased slip resistance

Notes
can also be used as effect scatter in selected facade finishes, request separate application instructions

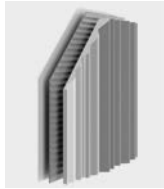
Appearance	gloss
Colour shade	black

Facade claddings



Collective Housing MyLoft World Fashion Center, Amsterdam, NL
Photo: Norbert Duijvelshoff (Sto Isoned bv), Tiel, NL

Overview of facade claddings

System/product	Bekleidungssystem			
	StoDeco	StoGlass Mosaic	StoEcoshape	Sto-Cleyer B
				

External wall insulation system

StoTherm Classic®	■	□	■■	■■
StoTherm Classic® S1	■	□	■■	■■
StoTherm Vario	■■	■■	■	■
StoTherm Mineral	■■	■■	■	■
StoTherm Wood	□		■	■

Ventilated rainscreen cladding facade

StoVentec R	■■		■■	■■
StoVentec S	■■			
StoVentec C	■■			
StoVentec M	■■	■■		

Solid substrate

Beton	■■	■■	■■	■■

■■ excellent
■ good
□ to a limited extent

Cladding system StoDeco
Facades with customised, three-dimensional facade elements

System advantages
- facade elements: class A2-s1, d0 in accordance with EN 13501-1, based on mineral granulate made of hollow silicate microspheres
- various shapes
- shock-proof and impact-resistant
- homogeneous material
- low weight
- value-retaining

1 Priming coat
2 Bonding
3 Cladding
4 Fixing
5 Substrate coating
6 Finishing coat

Overview Cladding system StoDeco

Area of application	- for individual facade design on load-bearing substrates - for the renovation and refurbishment of existing buildings, also for the protection of listed buildings - for the design of new buildings - can also be used in interiors
Substrate	- external wall insulation systems and ventilated rainscreen cladding systems with a reinforced base coat - solid substrates
Fixing	- full-surface bonding - additional mechanical fixing with anchors or constructing brackets in case of projections of ≥ 50 mm
Reaction to fire	- facade elements: class A2-s1, d0 in accordance with EN 13501-1, in the defined area in accordance with the classification report 902 6199 000-06k - facade elements on an external wall insulation system: in accordance with EN 13501-1, in the defined area in accordance with the classification report MA 39 – VFA 2014-1649.01 (EWIS with mineral wool insulation) and MA 39 – VFA 2014-1649.02 (EWIS with EPS insulation)
Impact resistance	- shock-proof and impact-resistant
Design options	- facade elements: ledges for creating surrounding lines and structure, panels for decorating entire areas, sculptural shapes for selective structuring of facades - smooth or rough surface - various shapes
Colour spectrum	- broad scope for colour design with a corresponding coating
Application	- easy to saw, sand and process

System description of cladding system StoDeco

Substrate	RSC, EWIS or solid substrate		
Substrate coating	**StoPrep Contact**		
Bonding	**StoDeco Coll white**		
Cladding	**StoDeco Facade Element**		
Fixing			**StoDeco Screw-In Anchor LZ 10** or **StoDeco Screw-In Anchor LZ 14** with **StoDeco Cap**
Priming coat see chapter: facade coatings · primer, facade paints	**Sto-Primer** (sandstone texture)	**StoColor S fine** (fine texture)	**StoColor Maxicryl** or **StoColor Dryonic®** or **StoColor X-Black** (smooth)
Intermediate coat and finish refer to chapterl: Facade coatings · facade paints	**StoColor Maxicryl** or **StoColor Dryonic®** or **StoColor X-Black**		

Priming coat

StoPrep Contact

Bonding agent for smooth substrates

Area of application
exterior and interior, as a bonding agent for plasters and fillers on smooth, non-absorbent wall and ceiling areas, e.g. smooth concrete, wood particle boards, gypsum plasterboards, and ceramic tiles, suitable as a bonding agent for gypsum, lime, and lime-cement plaster

Properties
adhesion-promoting, filled, alkali-resistant

Notes
when using the product in exteriors, in wet interior areas, or when applying lime-cement renders on top, add 20 weight percent cement to the material, if applying with a 4 mm notched trowel, it is possible to add up to 35 weight percent cement to the material

Approx. consumption	0.20 - 0.40 kg/m² paint brush, roller 0.40 - 0.60 kg/m² as spray application 1.50 - 2.00 kg/m² with notched trowel (4 x 4)
Appearance	matt
Colour shade	white
Application	can be mixed with cement CEM I 32.5, CEM I 52.5R, or StoFlexyl Cement

Bonding

StoDeco Coll white

Mineral bonding mortar for StoDeco Facade Elements

Area of application
exterior and interior, for bonding StoDeco Facade Elements to load-bearing, mineral and organic, non-elastic substrates

Properties
excellent adhesion properties

Approx. consumption	5.20 - 7.20 kg/m² depending on the notched trowel used for application
Colour shade	white
Application	apply to both surfaces (floating-buttering method)

Cladding

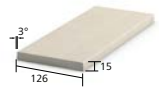
StoDeco Frame

Frame profile made of Verolith

Area of application
exterior and interior, for accentuating building openings, on solid substrates, external wall insulation systems, and ventilated rainscreen cladding systems

Properties
design element based on a mineral granulate consisting of hollow silicate microspheres, coloured decoration by applying corresponding paint coat, reaction to fire (class) in accordance with EN 13501-1: A2-s1, d0

Approx. consumption	1.00 m/m
Format	see collection drawings
Appearance	see collection drawings
Application	fixing by bonding



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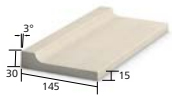

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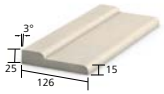

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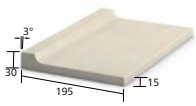

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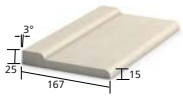

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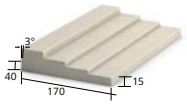

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type E 106

StoDeco Frame - L

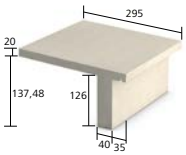
Profiled window sill element made of Verolith

Area of application
exterior and interior, for accentuating windows and as a window sill, on solid substrates, external wall insulation systems, and ventilated rainscreen cladding systems

Properties
design element based on a mineral granulate consisting of hollow silicate microspheres, coloured decoration by applying corresponding paint coat, reaction to fire (class) in accordance with EN 13501-1: A2-s1, d0, without shoulders, low weight, ecologically sound

Notes
reaction to fire, in accordance with EN 13501-1, in the defined range in accordance with classification report MPA Stuttgart 902 6199 000-06k, reaction to fire on external wall insulation systems in accordance with EN 13501-1, in the defined area in accordance with classification report MA 39 - VFA 2014-1649.01 (EWIS with mineral wool insulants) and MA 39 - VFA 2014-1649.02 (EWIS with EPS insulants), order quantity: by box, 2 pieces per box

Approx. consumption	1.00 m/m
Format	see collection drawings
Appearance	see collection drawings
Application	fixing by bonding



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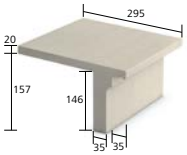

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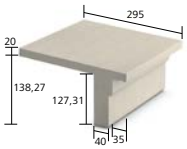

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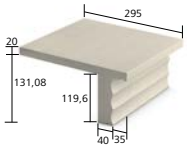

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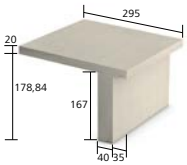

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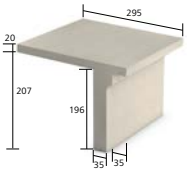

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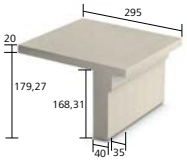

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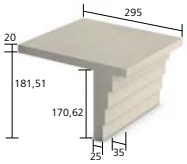

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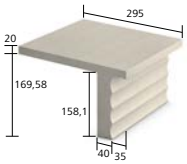


type E 106 L

StoDeco Line F

Window sill extension/cornice made of Verolith

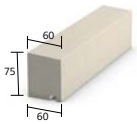
Area of application
exterior and interior, for accentuating building apertures and/or for horizontal and vertical structuring of facades, on solid substrates, external wall insulation systems, and ventilated rainscreen cladding systems

Properties
coloured decoration by applying corresponding paint coat, reaction to fire (class) in accordance with EN 13501-1: A2-s1, d0, design element based on a mineral granulate consisting of hollow silicate microspheres, without shoulders on the right and/or shoulders on the left-hand side

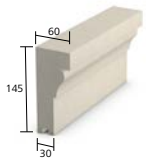
Approx. consumption	length: 1200 mm	0.83 pcs./m
	length: 1800 mm	0.56 pcs./m
	length: 2400 mm	0.42 pcs./m
Format	type FA 70 x 146 mm type FB 60 x 128 mm type FC 60 x 75 mm type FD 60 x 145 mm type FE 50 x 75 mm length: 1200 mm, 1800 mm, 2400 mm N - normal version RV - shoulders on the right-hand side LV - shoulders on the left-hand side BV - shoulders on both sides	
Appearance	see collection drawings	
Application	fixing by bonding, if the projection/element thickness is D ≥ 50 mm, additional mechanical fixing is necessary	

type FA

type FB



type FC



type FD

type FE

StoDeco Panel S

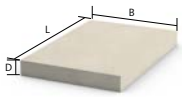
Panel made of Verolith

Area of application
exterior and interior, for decorating large areas of of facade, for creating rusticated facades with accentuated joints, on solid substrates, external wall insulation systems, and ventilated rainscreen cladding systems

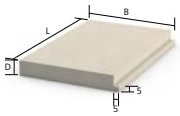
Properties
design element based on a mineral granulate consisting of hollow silicate microspheres, coloured decoration by applying corresponding paint coat, reaction to fire (class) in accordance with EN 13501-1: A2-s1, d0, low weight, ecologically sound, simple and fast installation

Notes
reaction to fire, in accordance with EN 13501-1, in the defined range in accordance with classification report MPA Stuttgart 902 6199 000-06k, reaction to fire on external wall insulation systems in accordance with EN 13501-1, in the defined area in accordance with classification report MA 39 - VFA 2014-1649.01 (EWIS with mineral wool insulants) and MA 39 - VFA 2014-1649.02 (EWIS with EPS insulants), max. format per element: 0.96 m², max. weight per element: 35 kg, for possible formats, see the overview of StoDeco Panel facade elements in the standard range, the articles are not kept in storage, please note longer delivery times, delivery time on request, not suitable for large-area use on StoTherm Cell and StoTherm Wood

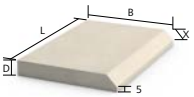
Approx. consumption	1.00 pcs./pcs.
Format	for element thicknesses of 15, 20, 25, 30, 35, and 40 mm, an element length of max. 2400 mm and an element width of max. 1200 mm is possible (max. format: 0.96 m²) for element thicknesses of 50, 60, 70, 80, 90, and 100 mm, an element length of max. 2400 mm and an element width of max. 1050 mm is possible (max. format: 0.96 m²)
Appearance	different edge types and formats
Application	fixing by bonding, if the projection/element thickness is D ≥ 50 mm, additional mechanical fixing is necessary



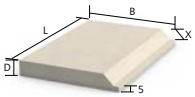
type G - straight



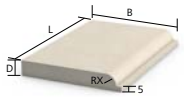
type K - edge



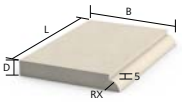
type F - bevel



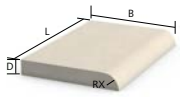
type T - trapezoid



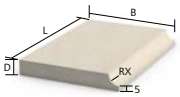
type RK - radius edge



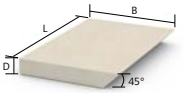
type KR - edge radius



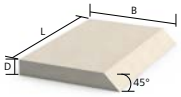
type R - radius



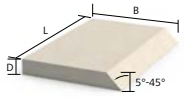
type H - fillet



type GA - mitre edge, external corner



type GI - mitre edge, internal corner



type SV - variable slope

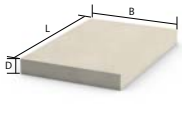
StoDeco Panel SF

Window sill cover made of Verolith

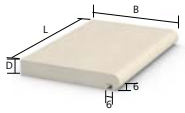
Area of application
exterior and interior, as window sill (cover), on solid substrates, external wall insulation systems, and ventilated rainscreen cladding systems

Properties
design element based on a mineral granulate consisting of hollow silicate microspheres, coloured decoration by applying corresponding paint coat, reaction to fire (class) in accordance with EN 13501-1: A2-s1, d0, low weight, ecologically sound

Approx. consumption	1.00 pcs./pcs.
Format	for element thicknesses of 15, 20, 25, 30, 35, and 40 mm, an element length of max. 2400 mm and an element width of max. 1200 mm is possible (max. format: 0.96 m²) for element thicknesses of 50, 60, 70, 80, 90, and 100 mm, an element length of max. 2400 mm and an element width of max. 1050 mm is possible (max. format: 0.96 m²)
Appearance	different edge types and formats
Application	fixing by bonding, if the projection/element thickness is D ≥ 50 mm, additional mechanical fixing is necessary

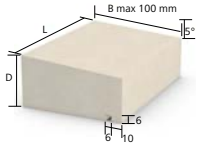


type G - straight



type A - cover

type W - water drip



type L - drip edge

StoDeco Plan

Facade panel made of Verolith

Area of application
exterior and interior, for individual facade designs, onto solid substrates, external wall insulation systems or ventilated rainscreen cladding systems, for cutting the fitting pieces to size

Properties
design element based on a mineral granulate consisting of hollow silicate microspheres, coloured decoration by applying corresponding paint coat, reaction to fire (class) in accordance with EN 13501-1: A2-s1, d0

Notes
reaction to fire, in accordance with EN 13501-1, in the defined range in accordance with classification report MPA Stuttgart 902 6199 000-06k, reaction to fire on external wall insulation systems in accordance with EN 13501-1, in the defined area in accordance with the classification report MA 39 – VFA 2014-1649.01 (EWIS with mineral wool insulants) and MA 39 – VFA 2014-1649.02 (EWIS with EPS insulants), per element: max. 0.96 m², max. 35 kg, possible formats are analogous to the overview of StoDeco Panel facade elements in the standard range, delivery time on request, maximum formats suitable for application are analogous to the overview of possible formats in the area of StoDeco Rustications, adhesion tests are required in advance

Approx. consumption	2420 x 1210 mm	0.34 pcs./m²
	2440 x 1080 mm	0.38 pcs./m²
Format	2420 x 1210 mm in the thicknesses: 15, 20, 25, 30, 35 and 40 mm 2440 x 1080 mm in the thicknesses: 50, 60, 70, 80, 90 and 100 mm	

StoDeco Line

Bespoke linear facade element made of Verolith

Area of application
exterior and interior, for accentuating building apertures and/or for horizontal and vertical structuring of facades, on solid substrates, external wall insulation systems, and ventilated rainscreen cladding systems

Properties
design element based on a mineral granulate consisting of hollow silicate microspheres, coloured decoration by applying corresponding paint coat, reaction to fire (class) in accordance with EN 13501-1: A2-s1, d0, low weight, ecologically sound, simple and fast installation

Appearance	ledges in many different shapes which are produced to order; frame profiles, ledges, arches, ornaments, columns, half-columns, etc.
Application	fixing by bonding, if the projection/element thickness is D ≥ 50 mm, additional mechanical fixing is necessary

StoDeco Panel

Bespoke panel made of Verolith

Area of application
exterior and interior, for decorating large areas of of facade, on solid substrates, external wall insulation systems, and ventilated rainscreen cladding systems

Properties
design element based on a mineral granulate consisting of hollow silicate microspheres, coloured decoration by applying corresponding paint coat, reaction to fire (class) in accordance with EN 13501-1: A2-s1, d0

Format	for element thicknesses of 15, 20, 25, 30, 35, and 40 mm, an element length of max. 2400 mm and an element width of max. 1200 mm is possible (max. format: 0.96 m²) for element thicknesses of 50, 60, 70, 80, 90, and 100 mm, an element length of max. 2400 mm and an element width of max. 1050 mm is possible (max. format: 0.96 m²)
Appearance	textured and/or with different edge types
Application	fixing by bonding, if the projection/element thickness is D ≥ 50 mm, additional mechanical fixing is necessary

StoDeco Element

Bespoke sculptural shape made of Verolith

Area of application
exterior and interior, for selective structuring of facades, on solid substrates, external wall insulation systems, and ventilated rainscreen cladding systems

Properties
design element based on a mineral granulate consisting of hollow silicate microspheres, coloured decoration by applying corresponding paint coat, reaction to fire (class) in accordance with EN 13501-1: A2-s1, d0

Approx. consumption	1.00 pcs./pcs.
Appearance	geometric shapes and alphanumerical symbols
Application	fixing by bonding, if the projection/element thickness is D ≥ 50 mm, additional mechanical fixing is necessary

Fixing

StoDeco Screw-In Anchor LZ 10

All-purpose anchor for fixing StoDeco Profiles

Area of application
for additional fixing of larger Deco profiles, for anchoring in all commonly available wall materials

Notes
2 items/profile are generally required, foam caps included, bit type T40

Format	ø 10 mm
Application	anchorage depth: 70 mm, (in a load-bearing substrate)

StoDeco Screw-In Anchor LZ 14

All-purpose anchor for fixing StoDeco Profiles

Area of application
for additional fixing of larger Deco profiles, for anchoring in all commonly available wall materials

Notes
2 items/profile are generally required, foam caps included

Approx. consumption	2 pcs./pcs.
Format	ø 14 mm
Application	anchorage depth: 70 mm, (in a load-bearing substrate)

StoDeco Cap

Caps made of Verolith granulate for covering StoDeco Screw-In Anchors

Area of application
for covering recessed StoDeco screw-in anchors

Approx. consumption	1.00 pcs./pcs.
Format	StoDeco Screw-In Anchor LZ 10: ø 20 mm, StoDeco Screw-In Anchor LZ 14: ø 30 mm thickness: 5 mm
Colour shade	white

Priming coat

Sto-Primer

Filled, pigmented, organic undercoat

Area of application
exterior, on mineral and organic substrates, for organic and silicone resin renders, for modified, mineral renders, for dispersion silicate renders, for finishing renders with Lotus-Effect® Technology

Properties
adhesion-promoting, absorbency-regulating, prolongs the open time of the finishing render during application, alkali-resistant, permeable to water vapour and CO_2, pigmented

Notes
only weather-resistant to a limited extent without a finishing coat

Approx. consumption	0.30 kg/m² per paint coat
Appearance	filled
Colour shade	white StoColor
Application	

StoColor S

Facade paint on an emulsion base, filled, with brush render appearance

Area of application
exterior, for fine or coarse brush render textures

Properties
water vapour permeable, good filling capacity, low-tension

Notes
with encapsulated film protection

Approx. consumption	0.30 - 0.40 kg/m² per paint coat
Appearance	matt fine or coarse filling
Colour shade	white StoColor
Application	

Finishing coat

StoColor Maxicryl

Facade paint for maximum colour shade variety and stability

Area of application
exterior, for paint coats with intense colour shades on mineral and organic substrates

Properties
texture-retaining, very highly water-repellent, water vapour permeable, alkali-resistant, very good adhesion, pure acrylate binding agent, especially for intense colour shades

Notes
with encapsulated film protection

Approx. consumption	0.15 - 0.18 l/m² per paint coat
Appearance	matt
Colour shade	white
Application	

StoColor Dryonic®

Facade paint with Dryonic® Technology, biomimetic principle for dry facades against algae and fungal attacks, without biocide film protection

Area of application
exterior, on mineral and organic substrates, on EWIS, on almost all conventional construction substrates, on sloping substrates not sensitive to humidity up to an inclination of 45°, project-specific consultation is necessary for EWIS with inclined surfaces, on concrete, on trapezoidal profiled sheet facades (e.g. coated using the coil coating method), on galvanised metal substrates (e.g. rainwater pipes), on fibre cement facades, on high pressure laminate facades, also suitable for roofs with an inclination > 3°, e.g. cement bricks, clay bricks, fibre cement (asbestos-free), sheet metal coverings

Properties
biomimetic principle for fastest drying after rain or dew formation, also available with X-black Technology: heat shield against solar heating, highest whiteness, high level of colour shade variety and stability, minimum extender material breakdown (not easily scuffed), high level of resistance to mechanical stress, texture-retaining, pure acrylate binding agent, CO_2 diffusion: class C1 in accordance with EN 1062-1, very good hiding power, water vapour permeable, alkali-resistant, very good adhesion to all substrates commonly used in construction, without biocide film protection

Sto iQ Intelligent Technology

Approx. consumption	0.12 - 0.15 l/m² per paint coat
Appearance	matt (G3) in accordance with EN 1062-1 depending on the angle, the surface seems silk matt
Colour shade	white
Application	

Cladding system StoGlass Mosaic

Facade with single-colour and motif-forming glass mosaics

1 Bonding
2 Cladding
3 Pointing

Overview Cladding system StoGlass Mosaic

Area of application	▪ exterior and interior
Substrate	▪ external wall insulation systems, ventilated rainscreen cladding systems, or massive substrates
Fixing	▪ bonding with StoColl KM ▪ white for light colours, otherwise grey
Impact resistance	▪ resistant to mechanical stress
Design options	▪ 40 different colour shades ▪ further colour shades possible on request ▪ thickness: 4 or 8 mm ▪ format: 50 x 50 mm ▪ format: 25 x 50 mm ▪ format: 25 x 25 mm
Colour spectrum	▪ see Sto Collection
Application	▪ Bond the cladding directly to the system reinforcement by applying adhesive to one side only in accordance with DIN EN 12004 ("floating-buttering method") and fill and smooth the joints.
Approvals/standards	The relevant European and/or national approvals apply.

Bonding

StoColl KM

Mineral, flexible grout for brick slips, ceramic, natural stone tiles, and glass mosaic

Area of application
exterior and interior, as a grout (flexible adhesive) for suitable brick slips, ceramic and natural stone tiles, and glass mosaic, for bonding StoPanel Plus, on StoLevell Uni mineral reinforcing mortar, on organic reinforcing mortar with intermediate coat (StoPrep Contact)

Properties
excellent adhesive bond, resistant to frost and weathering, optimum non-sag properties, meets C1TE requirements in accordance with EN 12004

Approx. consumption	3.50 - 4.50 kg/m² bonding 1.20 kg/m² per mm layer thickness
Colour shade	grey, white
Application	application to both surfaces (back-buttering method)

Cladding

StoGlass Mosaic

Coloured glass mosaic tiles

Area of application
exterior, as facade cladding on the external wall insulation systems StoTherm Vario, StoTherm Mineral and StoTherm Mineral L, as facade cladding on StoVentec M, the ventilated rainscreen cladding system, consisting of bonding and pointing mortar, as well as glass mosaic

Properties
high dimensional accuracy, depth effect, frost-resistant, water absorption: < 0.5 %, rear side adhesion-promoting agents fused with glass

Notes
packaging unit: box

Approx. consumption	1.00 m^2/m^2
Format	thickness of the mosaic tile, specified in mm: 4 or 8, tolerance: +/- 0.5 size of the mosaic tile, specified in mm: nominal dimension: standard format 50 x 50 or 25 x 25, special format 50 x 25 manufacturing dimension: standard format 47.5 x 47.5 or 22.5 x 22.5, special format 47.5 x 22.5 size of the mosaic sheet, specified in mm: nominal dimension: standard format 300 x 300 manufacturing dimension: standard format 297.5 x 297.5; tolerance +/- 0.5
Colour shade	Bright White, Pergamon, Florence brown, Hazelnut, Brown, Cotto, Chocolate, Mocca, Black, Royal blue, Steel blue, Sky blue, Shining blue, Surf, Ice, Cloud blue, Turquoise, Venice blue, Ireland green, Emerald, Olive green, Highland green, Grey stone, Clear grey, Manhattan, London blue, Dark grey, Amethyst, Burgundy, Red, Orange, Mandarin, Corn, Lime, Champagne, Nude, Lavender, Berry red, Lemon grass, Sugar rose
Application	joint width 2.5 mm (-0.5 / +1.5 mm), full-surface bonding in the adhesive bed without entrapped air, other joint widths are available on request


Bright white


Pergamon


Florence brown


Hazelnut


Brown


Cotto


Chocolate


Mocca


Black


Royal blue


Steel blue


Sky blue


Shining blue


Surf


Ice


Cloud blue


Turquoise


Venice blue


Ireland green

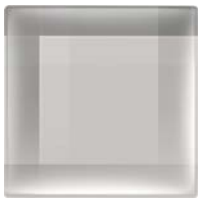

Emerald


Olive green


Highland green


Stone grey


Clear grey


Manhattan


London blue


Dark grey


Amethyst


Burgundy


Red


Orange


Mandarin


Corn

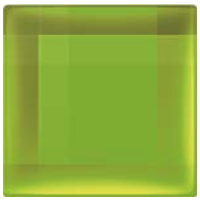

Lime


Champagne


Nude


Lavender


Berry red


Lemon grass


Sugar rose

Pointing

StoColl FM-K

Mineral pointing mortar for brick slips and natural stone tiles with a jointing trowel

Area of application
exterior, for trowel-pointing ceramic claddings and natural stone tiles, e.g. grained brick slips or blasted natural stone tiles, in StoTherm and StoVentec systems with approval for ceramic claddings and natural stone tiles, for walls and facades, for subsequent pointing of fair-faced masonry, e.g. narrow brick slips, fair-faced bricks, facade brick slips, and cast stones

Properties
weather-resistant, frost-proof, breathable, resistant to driving rain, good application properties, extremely water-repellent, pointing mortar in accordance with EN 998-2, pointing mortar in accordance with DIN EN 13888 CG2 W

Notes
always order the entire amount required for a project at the same time (this applies particularly to tinted material), always produce the exact same mixing ratio, colour shade deviations cannot be excluded, the consumption values apply for brick slips with a joint width of 12 mm, consumption, colour shade, and appearance depend on the format, bond, and thickness of the brick slips and tiles, and from the mixing ratio, joint width, and joint depth, Always create a sample surface area, in order to determine the consumption and workability, get an impression of the appearance, and test the flank adhesion with the selected mixing ratio., the workability must be tested on a sample surface area

Approx. consumption	5.00 - 6.00 kg/m² NF (normal format) 71 x 240 x 14 4.00 - 5.00 kg/m² NF (normal format) 71 x 240 x 11 6.00 - 7.00 kg/m² DF 52 x 240 x 14 5.00 - 6.00 kg/m² DF 52 x 240 x 11
Colour shade	natural white, dark grey, grey, anthracite, grey-white, beige-white, silver-grey, sand beige, red-grey, orange, light brick-red, dark brick-red, Project-specific special colour shades available on request.


StoColl FM-K grey


StoColl FM-K dark grey


StoColl FM-K silver grey


StoColl FM-K anthracite


StoColl FM-K grey white


StoColl FM-K beige white


StoColl FM-K natural white


StoColl FM-K sand beige


StoColl FM-K red grey


StoColl FM-K orange


StoColl FM-K brick-red, dark


StoColl FM-K brick-red, light

StoColl FM-S

Mineral universal pointing mortar for slurry pointing brick slips and tiles made of ceramics, natural stone and glass

Area of application
exterior, for the slurry grouting of suitable brick strips, ceramic tiles, natural stone tiles, and glass tiles with smooth, non-absorbent surfaces, in StoTherm and StoVentec systems with approval for ceramic claddings and natural stone tiles, for walls and facades, for subsequent pointing of fair-faced masonry, e.g. narrow brick slips, fair-faced bricks, facade brick slips, and cast stones

Properties
weather-resistant, frost-proof, breathable, resistant to driving rain, pliable, therefore easy to apply, low shrinkage deformation, crack-free, very easy to wash afterwards, pointing mortar in accordance with DIN EN 13888 CG2 WA

Notes
always order the entire amount required for a project at the same time (this applies particularly to tinted material), always produce the exact same mixing ratio, colour shade deviations cannot be excluded, the consumption values apply for brick slips with a joint width of 12 mm, consumption, colour shade, and appearance depend on the format, bond, and thickness of the brick slips and tiles, and from the mixing ratio, joint width, and joint depth, Always create a sample surface area, in order to determine the consumption and workability, get an impression of the appearance, and test the flank adhesion with the selected mixing ratio., the workability must be tested on a sample surface area

Approx. consumption	3.00 - 5.00 kg/m² for smooth split tiles and ceramic coverings
Colour shade	silver grey, manhattan, sand grey, grey, dark grey, anthracite, Project-specific special colour shades available on request.


StoColl FM-S silver grey


StoColl FM-S manhattan


StoColl FM-S sand grey


StoColl FM-S grey


StoColl FM-S dark grey


StoColl FM-S anthracite


StoColl FM-S grey K


StoColl FM-S dark grey K


StoColl FM-S silver grey K


StoColl FM-S anthracite K


StoColl FM-S grey white


StoColl FM-S beige white


StoColl FM-S natural white


StoColl FM-S sand beige


StoColl FM-S red grey


StoColl FM-S brick-red, dark


StoColl FM-S brick-red, light


StoColl FM-S orange

Accessories

Sto-Transition Profile for Ceramics

Profile to produce a transition from the render to the ceramic tiles

Area of application
to create a horizontal water-draining transition between render and ceramics

Properties
made of stainless steel

Notes
delivery form: 2.5 m/item

Approx. consumption	1.00 m/m project-specific
Format	projection: 17, 20, 23, 26, 30 mm length: 250 cm
Appearance	bare

Sto-Expansion Joint Tape

Compressed sealing tape made of impregnated flexible foam for structural expansion joints

Area of application
exterior, for waterproofing structural expansion joints, for joint widths (internal width plus movement capability) from 10-18 mm, 13-24 mm, 17-32 mm, and 28-40 mm

Properties
fully impregnated, self-expanding, self-adhesive

Notes
stress group BG 1 in accordance with DIN 18542, resistance to driving rain is only assured if the joint width is within the area of application (e.g. 13-24 mm), delivery form: roll, length of the roller cover depends on the tape width

Approx. consumption	Type 1 1.02 m/m
Format	width of the tape / joint width (area of application): 25 mm / 10-18 mm 30 mm / 13-24 mm 37 mm / 17-32 mm 47 mm / 28-40 mm
Colour shade	anthracite, light grey

Sto-Expansion Joint Profile E

Profile for structural expansion joints where the wall surfaces are level

Area of application
exterior, for forming structural expansion joints between level wall surfaces in facade insulation systems, for joint widths of 20-30 mm

Properties
made of plastic, with a stable, mesh-reinforced, expanding joint cover, with a ridge for even smoothing, with integrated glass fibre mesh, weather-resistant, UV-resistant, can be combined with the Sto-Expansion Joint Cover E

Approx. consumption	1.00 m/m
Format	length: 250 cm
Colour shade	profile: white, expanding joint cover: dark grey

Sto-Expansion Joint Profile V

Profile for structural expansion joints where the wall surfaces are offset

Area of application
exterior, for forming structural expansion joints between offset wall surfaces in facade insulation systems, for joint widths of 20-30 mm

Properties
made of plastic, with a stable, mesh-reinforced, expanding joint cover, with a ridge for even smoothing, with integrated glass fibre mesh, weather-resistant, UV-resistant, can be combined with the Sto Expansion Joint Cover V

Approx. consumption	1.00 m/m
Format	length: 250 cm
Colour shade	profile: white, expanding joint cover: dark grey

Sto-Backing Rod

Cylindrical profile made of closed-cell polyethylene foam as joint backing strip

Area of application
for filling the backs of joints that are later to be filled with sealant, to prevent joint sealants from adhering on three sides

Properties
water-repellent, elastic

Approx. consumption	1.00 m/m
Format	cylindrical profile

OTTOSEAL S70

Natural stone silicone

Area of application
exterior and interior, sealing and pointing of marble and all natural stones, waterproofing of expansion joints on facades

Properties
highly elastic, optimum non-sag properties, moisture-curing

Notes
maximum joint width: 30-35 mm at a maximum joint depth of 15 mm, does not cause any migratory soiling on natural stones, The current Technical Data Sheet can be found at www.otto-chemie.de.

Format	310 ml cartridge
Colour shade	see article
Application	with matching sealant gun (same as StoSeal F 505)

Cladding system StoEcoshape
Facades with customised, prefabricated render elements

System advantages
- form, texture and colour can be customised
- bonding and pointing with one product
- installation is possible on curved surfaces

1 Priming coat
2 Bonding
3 Cladding
4 Pointing

Overview Cladding system StoEcoshape

Area of application	▪ exterior
Substrate	▪ external wall insulation systems, ventilated rainscreen cladding systems, or massive substrates
Fixing	▪ bonding with Sto-Bonding and Pointing Mortar
Impact resistance	▪ highly resistant to mechanical stress
Design options	▪ according to customer specifications ▪ colour shade: plain colours or up to two mixed colour shades ▪ texture: smooth, rough, regular, uneven, or a combination of two textures (e.g. roller and comb texture) ▪ aggregates: up to two different toppings (e.g. natural sand mixtures or silicon carbide) ▪ special textures and aggregates possible on request ▪ min. length: 30 mm, max. length: 840 mm ▪ min. width: 30 mm, max. width: 420 mm ▪ min. thickness: 4 mm, max. thickness: 8 mm ▪ special dimensions on request
Colour spectrum	▪ in accordance with the Architectural Colours colour fan ▪ further colour shades possible on request
Application	▪ Bond and point prefabricated render elements directly onto the system reinforcement. ▪ No additive mortar application is necessary for pointing. Smooth the Sto-Bonding and Pointing Mortar which was applied to the joints during bonding using only a flat paint brush.
Approvals/standards	The relevant European and/or national approvals apply.

System description of Sto-Ecoshapes

Substrate	RSC, EWIS, or solid substrate
Bonding	**Sto-Bonding and Pointing Mortar**
Cladding	**Sto-Ecoshapes**
Pointing	**Sto-Bonding and Pointing Mortar**[1)]

[1)] No additive application necessary. Smooth the mortar in the joints using only a flat paint brush.

Priming coat

Sto-Primer

Filled, pigmented, organic undercoat

Area of application
exterior, on mineral and organic substrates, for organic and silicone resin renders, for modified, mineral renders, for dispersion silicate renders, for finishing renders with Lotus-Effect® Technology

Properties
adhesion-promoting, absorbency-regulating, prolongs the open time of the finishing render during application, alkali-resistant, permeable to water vapour and CO_2, pigmented

Notes
only weather-resistant to a limited extent without a finishing coat

Approx. consumption	0.30 kg/m² per paint coat
Appearance	filled
Colour shade	white StoColor
Application	

Bonding

Sto-Bonding and Pointing Mortar

Organic, cement-free bonding mortar for bonding and pointing StoCleyer B and StoEcoshape

Area of application
exterior, as a bonding and pointing mortar for StoCleyer B and StoEcoshape

Properties
thin-layer application

Approx. consumption	3.00 - 3.50 kg/m² as adhesive compound for resin brick slips
Colour shade	anthracite (2057 A), brown (2064 A), brown-grey (2063 A), graphite (2061 A), grey (2060 A), light grey (2059 A), sand yellow (2062 A), white (2056 A), cement-grey (2058 A), further colour shades on request


anthracite (2057 A)


brown (2064 A)


brown-grey (2063 A)


graphite (2061 A)


grey (2060 A)


light grey (2059 A)


sand yellow (2062 A)

white (2056 A)


cement-grey (2058 A)

Cladding

StoEcoshape

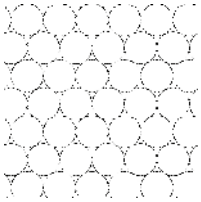
Prefabricated render elements, configurable shape and surface

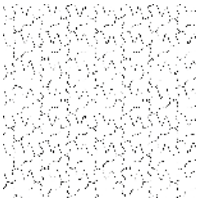
Area of application
exterior, as cladding, on external wall insulation systems, rainscreen cladding facades, and solid substrates

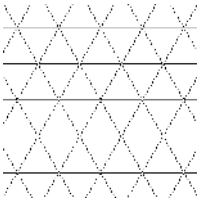
Properties
render elements in various formats and looks for facade insulation systems, for customised facade decoration, maximum shock resistance, maximum impact resistance

Notes
prefabricated corner elements: available on request depending on the format

Format	length: minimum 30 mm, maximum 840 mm width: minimum 30 mm, maximum 420 mm thickness: minimum 4 mm, maximum 8 mm special shapes on request
Appearance	according to customer specifications optional: prefabricated render element in universal colours with additional colour shades texture: smooth, rough, regular, or irregular textures combined texture: maximum two different combinations, e.g. roller sleeve, comb special texture: on request aggregates: maximum two different granulates, e.g. StoEffect Vetro, silicon carbide
Colour shade	colour shades on request


circle


amorphous


Polygon

Pointing

Sto-Bonding and Pointing Mortar

Organic, cement-free bonding mortar for bonding and pointing StoCleyer B and StoEcoshape

Area of application
exterior, as a bonding and pointing mortar for StoCleyer B and StoEcoshape

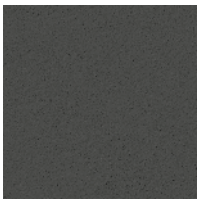
Properties
thin-layer application

Approx. consumption	3.00 - 3.50 kg/m² as adhesive compound for resin brick slips
Colour shade	anthracite (2057 A), brown (2064 A), brown-grey (2063 A), graphite (2061 A), grey (2060 A), light grey (2059 A), sand yellow (2062 A), white (2056 A), cement-grey (2058 A), further colour shades on request


anthracite (2057 A)


brown (2064 A)


brown-grey (2063 A)


graphite (2061 A)


grey (2060 A)


light grey (2059 A)


sand yellow (2062 A)

white (2056 A)


cement-grey (2058 A)

Cladding system StoCleyer B
Facades with resin brick slips, optimised for insulation systems

System advantages
- brick look in accordance with customer specification or original template possible
- bonding and pointing with one product

1 Priming coat
2 Bonding
3 Cladding
4 Pointing

Overview Cladding system StoCleyer B

Area of application	▪ exterior
Substrate	▪ external wall insulation systems, ventilated rainscreen cladding systems, or massive substrates
Fixing	▪ bonding with Sto-Bonding and Pointing Mortar
Impact resistance	▪ highly resistant to mechanical stress
Design options	▪ 89 different stones ▪ smooth, rough, regular, or unregular texture possible ▪ Sto-Bonding and Pointing Mortar available in 9 standard colour shades, special shades on request ▪ natural stone tiles, glass mosaic, bricks, ceramic tiles
Colour spectrum	▪ see StoCleyer B range ▪ further colour shades in accordance with customer specification or original template possible
Application	▪ Bond and point prefabricated render elements directly onto the system reinforcement. ▪ No additive mortar application is necessary for pointing. Smooth the Sto-Bonding and Pointing Mortar which was applied to the joints during bonding using only a flat paint brush.
Approvals/standards	The relevant European and/or national approvals apply.

System description of cladding system StoCleyer B

Substrate	**RSC, EWIS,** or **solid substrate**
Bonding	**Sto-Bonding and Pointing Mortar**
Cladding	**StoCleyer B**
Pointing	**Sto-Bonding and Pointing Mortar**[1)]

[1)] No additive application necessary. Smooth the mortar in the joints using only a flat paint brush.

Priming coat

Sto-Primer

Filled, pigmented, organic undercoat

Area of application
exterior, on mineral and organic substrates, for organic and silicone resin renders, for modified, mineral renders, for dispersion silicate renders, for finishing renders with Lotus-Effect® Technology

Properties
adhesion-promoting, absorbency-regulating, prolongs the open time of the finishing render during application, alkali-resistant, permeable to water vapour and CO_2, pigmented

Notes
only weather-resistant to a limited extent without a finishing coat

Approx. consumption	0.30 kg/m² per paint coat
Appearance	filled
Colour shade	white StoColor
Application	

Bonding

Sto-Bonding and Pointing Mortar

Organic, cement-free bonding mortar for bonding and pointing StoCleyer B and StoEcoshape

Area of application
exterior, as a bonding and pointing mortar for StoCleyer B and StoEcoshape

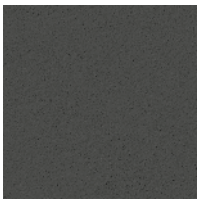
Properties
thin-layer application

Approx. consumption	3.00 - 3.50 kg/m² as adhesive compound for resin brick slips
Colour shade	anthracite (2057 A), brown (2064 A), brown-grey (2063 A), graphite (2061 A), grey (2060 A), light grey (2059 A), sand yellow (2062 A), white (2056 A), cement-grey (2058 A), further colour shades on request


anthracite (2057 A)


brown (2064 A)


brown-grey (2063 A)


graphite (2061 A)


grey (2060 A)


light grey (2059 A)


sand yellow (2062 A)

white (2056 A)


cement-grey (2058 A)

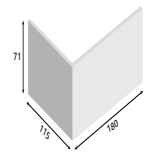
Cladding

StoCleyer B

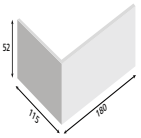
Resin brick slips, optimised for insulation systems

Area of application
exterior, as cladding, on external wall insulation systems, rainscreen cladding facades, and solid substrates

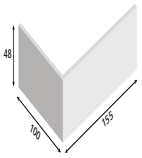
Approx. consumption	1.00 m²/m²
Format	resin brick slips: length x height, dimensions in mm: 240 x 71, approx. 48 pieces/m² 240 x 52, approx. 64 pieces/m² 220 x 60, approx. 60 pieces/m² 215 x 65, approx. 58 pieces/m² 210 x 50, approx. 72 pieces/m² 210 x 48, approx. 76 pieces/m² 165 x 60, approx. 78 pieces/m² 155 x 50, approx. 97 pieces/m² header (single header, EK): length x height, dimensions in mm: 115 x 71 (EK), approx. 96 pieces/m² 115 x 52 (EK), approx. 128 pieces/m² 102 x 65 (EK), approx. 116 pieces/m² 102 x 60 (EK), approx. 119 pieces/m² 100 x 50 (EK), approx. 144 pieces/m² 100 x 48 (EK), approx. 152 pieces/m² custom variant Corner resin brick slips (WR): 2/4 format (corner brick slips, WR): length / width x height, dimensions in mm: 100 / 100 x 50 (WR), approx. 16 pieces/m 3/4 format (corner brick slips, WR): length / width x height, dimensions in mm: 180 / 115 x 71 (WR), approx. 12 pieces/m 180 / 115 x 52 (WR), approx. 16 pieces/m 165 / 100 x 60 (WR), approx. 14 pieces/m 161 / 102 x 65 (WR), approx. 13 pieces/m 155 / 100 x 50 (WR), approx. 16 pieces/m 155 / 100 x 48 (WR), approx. 17 pieces/m 3/4 custom variant 4/4 format (corner brick slips, WR): length / width x height, dimensions in mm: 240 / 115 x 71 (WR), approx. 12 pieces/m 240 / 115 x 52 (WR), approx. 16 pieces/m 220 / 100 x 60 (WR), approx. 14 pieces/m 215 / 102 x 65 (WR), approx. 13 pieces/m 210 / 100 x 50 (WR), approx. 16 pieces/m 210 / 100 x 48 (WR), approx. 17 pieces/m 4/4 custom variant lintel resin brick slips (SW): length x width / height, dimensions in mm: 240 x 115 x 71 (SW), approx. 4 pieces/m 240 x 115 x 52 (SW), approx. 4 pieces/m 220 x 100 x 60 (SW), approx. 4.3 pieces/m 215 x 102 x 65 (SW), approx. 4.4 pieces/m 210 x 100 x 50 (SW), approx. 4.5 pieces/m 210 x 100 x 48 (SW), approx. 4.5 pieces/m custom variant
Colour shade	see range overview
Application	Bond the resin brick slips directly to the system reinforcement and point the joints.



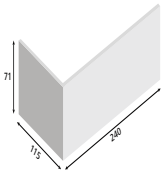
180 / 115 x 71



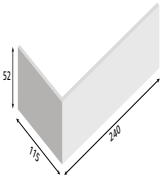
180 / 115 x 52



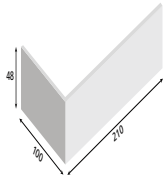
155 / 100 x 48



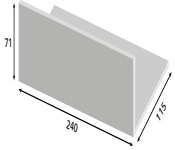
240 / 115 x 71



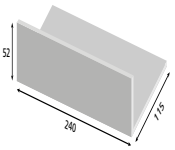
240 / 115 x 52



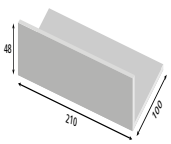
210 / 100 x 48



240 x 115 x 71



240 x 115 x 52



210 x 100 x 48


11130


11140


11150


11160


11180


11220


11230


11460


11470


11710


11720


11800


11810


11820


11830


11850

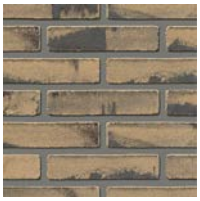

11860


11920


21130


21450


21460


21700


21750


21760


21770


21800


21820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21840


21850


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31140


31150


31160


31180


31190


31490


31720


31730


41850


51220


61460


61470


61710


61740


61810


61860


71130


71140


71180


71190

Pointing

Sto-Bonding and Pointing Mortar

Organic, cement-free bonding mortar for bonding and pointing StoCleyer B and StoEcoshape

Area of application
exterior, as a bonding and pointing mortar for StoCleyer B and StoEcoshape

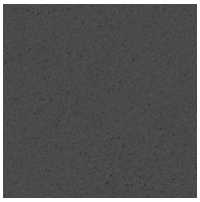
Properties
thin-layer application

Approx. consumption	3.00 - 3.50 kg/m² as adhesive compound for resin brick slips
Colour shade	anthracite (2057 A), brown (2064 A), brown-grey (2063 A), graphite (2061 A), grey (2060 A), light grey (2059 A), sand yellow (2062 A), white (2056 A), cement-grey (2058 A), further colour shades on request


anthracite (2057 A)


brown (2064 A)


brown-grey (2063 A)


graphite (2061 A)


grey (2060 A)


light grey (2059 A)


sand yellow (2062 A)

white (2056 A)


cement-grey (2058 A)

Priming coat

Sto-Primer

Filled, pigmented, organic undercoat

Area of application
exterior, on mineral and organic substrates, for organic and silicone resin renders, for modified, mineral renders, for dispersion silicate renders, for finishing renders with Lotus-Effect® Technology

Properties
adhesion-promoting, absorbency-regulating, prolongs the open time of the finishing render during application, alkali-resistant, permeable to water vapour and CO_2, pigmented

Notes
only weather-resistant to a limited extent without a finishing coat

Approx. consumption	0.30 kg/m² per paint coat
Appearance	filled
Colour shade	white StoColor
Application	

Bonding

StoArmat Classic plus F/M/G

Organic, cement-free reinforcing compound/base coat

Area of application
exterior, on mineral and organic substrates, as a reinforcing compound/base coat for StoTherm Classic®, as a reinforcing compound/base coat for StoVentec facades, as a levelling filler, as a renovation filler

Properties
cement-free, ready-to-use, very good application properties, high application reliability, good filling properties, excellent application properties

Notes
crack extension: approx. 2 %, Impact resistance: > 15 joules are possible with appropriate system build-up.

Approx. consumption	3.50 - 9.50 kg/m² as reinforcing compound on EPS foam boards 4.50 - 10.00 kg/m² as reinforcing compound on mineral wool insulation boards
Colour shade	white StoColor
Application	

Cladding

StoCleyer W

Timber resin brick slips, optimised for insulation systems

Area of application
exterior, not suitable for horizontal or sloping surfaces that are exposed to weather conditions, facade panels in timber appearance for facade insulation systems, on mineral and organic substrates

Properties
shock-proof and impact-resistant, cement-free, good application properties

Notes
The product is not available outside Europe.

Approx. consumption	1 m²/m² StoCleyer W
Format	200 x 16 cm, approx. 2 mm thick 25 pieces/box
Appearance	authentic timber appearance colouring by applying an appropriate glaze coating
Colour shade	white/natural

Cladding system StoCleyer W

Facades with timber resin brick slips, optimised for insulation systems

System advantages

- Authentic timber appearance
- More cost-effective and durable than real wood
- Hard-wearing and easy to maintain
- Without sub-construction and easy connection to external wall insulation systems with polystyrene, stone wool insulation boards, and stone wool insulation lamellas
- Simple application
- Can be painted in many colours

1 Priming coat
2 Bonding
3 Cladding
4 Finishing coat

Overview cladding system StoCleyer W

Area of application	▪ exterior ▪ interior ▪ for the exclusive design of timber effect facade surfaces ▪ optimised for insulation systems
Substrate	▪ on external wall insulation systems ▪ on rainscreen cladding facades
Fixing	▪ bonding with StoArmat Classic Plus F
Impact resistance	▪ highly resistant to mechanical stress
Design options	▪ timber effect panels ▪ coatable with different colour systems within the available colour range
Colour spectrum	▪ see StoCleyer B range ▪ further colour shades in accordance with customer specification or original template possible
Application	▪ Bond the cladding directly onto the system reinforcement by application to both surfaces in accordance with DIN EN 12004 and point the joints.

System description of cladding system StoCleyer W

Substrate	RSC, EWIS or solid substrate
Substrate coating	**Sto-Primer**
Bonding	**StoArmat Classic Plus F**
Cladding	**StoCleyer W**
Intermediate coat and finish refer to chapter: Facade coatings · Facade paints	**StoColor Dryonic®** or **StoColor Dryonic® S** or **StoAqua Top Satin**

Finishing coat

StoColor Dryonic®

Facade paint with Dryonic® Technology, biomimetic principle for dry facades against algae and fungal attacks, without biocide film protection

Area of application
exterior, on mineral and organic substrates, on EWIS, on almost all conventional construction substrates, on sloping substrates not sensitive to humidity up to an inclination of 45°, project-specific consultation is necessary for EWIS with inclined surfaces, on concrete, on trapezoidal profiled sheet facades (e.g. coated using the coil coating method), on galvanised metal substrates (e.g. rainwater pipes), on fibre cement facades, on high pressure laminate facades, also suitable for roofs with an inclination > 3°, e.g. cement bricks, clay bricks, fibre cement (asbestos-free), sheet metal coverings

Properties
biomimetic principle for fastest drying after rain or dew formation, also available with X-black Technology: heat shield against solar heating, highest whiteness, high level of colour shade variety and stability, minimum extender material breakdown (not easily scuffed), high level of resistance to mechanical stress, texture-retaining, pure acrylate binding agent, CO_2 diffusion: class C1 in accordance with EN 1062-1, very good hiding power, water vapour permeable, alkali-resistant, very good adhesion to all substrates commonly used in construction, without biocide film protection

Sto iQ Intelligent Technology

Approx. consumption	0.12 - 0.15 l/m² per paint coat
Appearance	matt (G3) in accordance with EN 1062-1 depending on the angle, the surface seems silk matt
Colour shade	white StoColor
Application	

StoAqua Top Satin

Block resistant, open-pored, water-dilutable lasure on an alkyd resin base

Area of application
exterior and interior, for new and old timber, for semi-dimensionally-stable and non-stable building elements, do not apply to damp or soiled substrates

Properties
high penetration capacity, biocide-free, resistant to moisture, UV-resistant due to transparent iron oxides, good renovation properties, non-drip

Approx. consumption	0.12 - 0.17 l/m² per paint coat
Appearance	silk gloss in accordance with EN 13300
Colour shade	StoColor - RAL - wood colour shades
Application	

Interior coatings

Sto head office reception building, Stühlingen, DE
Photo: Martin Baitinger, Böblingen, DE

Overview of the substrate and intermediate coatings

Product	Substrates							
	Concrete	Lime paint/lime render	Lime/cement render	Cellular concrete	Emulsion paint/ organic plaster	Silicate paint/ render	Cement bonded wood particle board	Gypsum plasterboard
StoPrim Plex	■■	■	■■	■■	■	■		■■
StoPrim GT	■■	■	■■	■■	■	■■	□	■■
StoPrim Silicate	■■	□	■■	□		■■		
StoPrim Isol	■	□	■		■■	■■	■■	■■
StoPrim Color	■■	■■	■		■			■

Overview of substrate coatings

Product	Properties					Solution			Design
	Binding agent base	Pigmented	Adhesion-promoting	Penetration capacity	Seal of approval	Absorbency-regulating	Isolating	Consolidating	Tintability
StoPrim Plex	organic		■	■■		■■		■	
StoPrim GT	silicate		■	■■		■■		■	
StoPrim Silicate	silicate		■	■■		■■		■	
StoPrim Isol	organic		■■	□		■■	■■	□	
StoPrim Color	organic	■■	■■	□		■			■

Overview of undercoats and intermediate paint coats

Product	Properties					Solution			Design
	Binding agent base	Pigmented	Filled	Adhesion-promoting	Seal of approval	Absorbency-regulating	Isolating	Protection against moisture	Tintability
StoPrep In	organic	■	■	■■		■■			■
StoPrep Contact	water-based	■	■■	■■		■■			
StoPrep Sil	silicate	■	■	■■		■			■

■■ excellent
■ good
□ to a limited extent

Deep-acting primers

StoPrim Plex

Water-based acrylate deep-acting primer, tested for harmful substances

Area of application
exterior and interior, on mineral and organic substrates and coatings

Properties
absorbency-regulating, surface-consolidating, adhesion-promoting, solvent- and plasticiser-free, low-emission, TÜV seal of quality - externally monitored, free from substances that contribute to "black dust" on walls

Approx. consumption	0.10 - 0.40 l/m² per paint coat
Colour shade	farblos
Application	

StoPrim GT

Acrylate silicate primer with gel technology for optimum roll and spray application

Area of application
interior, on mineral and organic substrates and coatings, for consolidating chalky but load-bearing existing paint coats and crumbling renders, for reducing the absorption capacity of gypsum plasterboards, porous and absorbent substrates, e.g. plasters, renders, unfired masonry or cellular concrete

Properties
absorbency-regulating, surface-consolidating, adhesion-promoting, very low drip tendency, even when working overhead, thanks to new gel technology, even material application, low-emission, high penetration capacity

Approx. consumption	0.10 - 0.40 l/m² per paint coat
Colour shade	farblos
Application	

StoPrim Silikat

Water-based, silicate deep-acting primer

Area of application
exterior and interior, on mineral substrates, as a priming coat before subsequent emulsion silicate coatings

Properties
silicate deep-acting primer, water-dilutable, absorbency-regulating, surface-consolidating, adhesion-promoting, good penetration capacity

Notes
dilute primer with water if necessary, so that it does not dry glossy, protect sensitive areas, e.g. glass, marble, varnished surfaces or those to be varnished

Approx. consumption	0.15 - 0.60 l/m² per paint coat
Colour shade	farblos
Application	

StoPrim Color

Tintable, solvent- and plasticiser-free, low-emission priming and intermediate coat on silicone-colloidal silica base

Area of application
exterior and interior, as a priming and intermediate paint coat on a silicone-colloidal silica base for firm, smooth, poorly- or non-absorbent substrates, such as existing paint coats, gypsum construction boards, or concrete

Properties
absorbency-regulating, solvent- and plasticiser-free, highly permeable to water vapour, extends the open time for subsequent coatings

Approx. consumption	0.1 - 0.13 l/m² per paint coat
Colour shade	white StoColor
Application	

Organic undercoats and intermediate paint coats

StoPrep In

Water-based primer for interiors, tested for harmful substances

Area of application
interior, on mineral and organic substrates for subsequent organic and mineral finishing plasters

Properties
adhesion-promoting, absorbency-regulating, diffusion-open, solvent- and plasticiser-free, low-emission, TÜV seal of quality - externally monitored, free from substances that contribute to "black dust" on walls

Approx. consumption	0.2 - 0.3 kg/m² per paint coat
Appearance	matt in accordance with EN 13300
Colour shade	white StoColor
Application	

StoPrep Contact

Bonding agent for smooth substrates

Area of application
exterior and interior, as a bonding agent for plasters and fillers on smooth, non-absorbent wall and ceiling areas, e.g. smooth concrete, wood particle boards, gypsum plasterboards, and ceramic tiles, suitable as a bonding agent for gypsum, lime, and lime-cement plaster

Properties
adhesion-promoting, filled, alkali-resistant

Notes
when using the product in exteriors, in wet interior areas, or when applying lime-cement renders on top, add 20 weight percent cement to the material, if applying with a 4 mm notched trowel, it is possible to add up to 35 weight percent cement to the material

Approx. consumption	0.20 - 0.40 kg/m² paint brush, roller 0.40 - 0.60 kg/m² as spray application 1.50 - 2.00 kg/m² with notched trowel (4 x 4)
Appearance	matt
Colour shade	white
Application	can be mixed with cement CEM I 32.5, CEM I 52.5R, or StoFlexyl Cement

Silicate undercoats and intermediate paint coats

StoPrep Sil

Preservative-free, silicate primer for interiors

Area of application
interior, on mineral substrates for subsequent mineral finishing plasters, especially for natureplus® certified finishing plasters

Properties
preservative-free, mildew-inhibiting, highly permeable to water vapour, solvent- and plasticiser-free, low-emission, TÜV seal of quality - externally monitored, free from substances that contribute to "black dust" on walls, eco-certified in accordance with natureplus®, fulfills the strictest criteria in terms of environment, health and functionality, very high whiteness

Approx. consumption	0.35 kg/m² per paint coat
Appearance	matt in accordance with EN 13300
Colour shade	white StoColor
Application	

Overview of fillers

Product	Properties					Substrates			
	Binding agent base	Density g/cm3	Layer thickness in mm	Ready-to use	Seal of approval	Gypsum plasterboards	Concrete	Mineral substrates	Organic substrates
Organic fillers									
StoLevel In AS	organic	1.70	0,1 - 2	■		■■	■■	■	■■
StoLevell In Repair	organic	1,90		■		■	■	■	■
Silicate fillers									
StoLevel In Sil	silicate	1.70	0,1 - 2	■		■■	■■	■	■■
Mineral fillers									
StoLevell In Fill	gypsum	0,80[1)]	0.1 - 30			■■		■■	■
StoLevell In RS	Zement	1.10[1)]	0.1 - 30				■■	■	■■
StoLevell Calce FS	lime	1.27[1)]	3 - 5			■[2)]	■■	■■	■

■■ excellent
■ good
□ to a limited extent

1) bulk density
2) with StoPrep In

Organic fillers

StoLevell In AS

Organic spray- or hand-applied filler, fine; tested for harmful substances

Area of application
interior, on mineral and organic substrates, for achieving surface qualities Q3 and Q4, as a filler for prefabricated concrete elements, gypsum plasterboards, and other mineral substrates

Properties
efficient application with airless equipment, good suitability for sanding, can be quickly over-coated, can be applied by roller, rust-inhibiting, solvent- and plasticiser-free, low-emission, TÜV seal of quality - externally monitored, free from substances that contribute to "black dust" on walls, layer thickness: max. 2 mm per application cycle, not suitable for special wallpapers (e.g. metal or vinyl wallpapers)

Approx. consumption	1.70 kg/m² per mm layer thickness
Appearance	matt in accordance with EN 13300
Colour shade	natural white
Application	

StoLevell In Repair

Organic filler/spot filler

Area of application
interior, as a filler or spot filler on primed wood, plaster/render, concrete, and on small areas of primed metals

Properties
good suitability for sanding, can be quickly over-coated, rust-inhibiting

Notes
tube contains 0.375 kg

Appearance	matt in accordance with EN 13300
Colour shade	natural white
Application	with a spatula

Silicate fillers

StoLevell In Sil

Preservative-free, silicate emulsion filler

Area of application
interior, on mineral and organic substrates, for achieving the filled quality levels Q3 and Q4, especially for sensitive areas (e.g. nursery schools and hospitals), for high-quality refurbishments of mould-infested surfaces in interiors

Properties
preservative-free, efficient application with high-performance airless sprayers, mildew-inhibiting, good suitability for sanding, can be quickly over-coated, rust-inhibiting, solvent- and plasticiser-free, low-emission, TÜV seal of quality - externally monitored, free from substances that contribute to "black dust" on walls, not suitable for special wallpapers (e.g. metal or vinyl wallpapers)

Approx. consumption	1.70 kg/m² per mm layer thickness
Appearance	matt in accordance with EN 13300
Colour shade	natural white
Application	

Mineral fillers

StoLevell In Fill

Gypsum filler for filling and smoothing

Area of application
interior, on mineral and organic substrates, for achieving the filled quality levels Q1 to Q4, for filling joints between gypsum plasterboards and other construction boards by embedding paper joint tape or a glass fibre mesh tape

Properties
fine, organically modified, preservative-free, fibre-reinforced, good suitability for sanding, can be quickly over-coated

Approx. consumption	1.00 kg/m² per mm layer thickness
Colour shade	natural white
Application	

StoLevell In RS

Cement filler for fast reworking of wall and ceiling areas

Area of application
interior, exterior, for smoothing and filling wall and ceiling areas in renovation and new building projects, smoothing filler for concrete areas, stopper-filler for deep holes, blow-holes, and joints on element and precast ceilings, not for use on or under aluminium structural members

Properties
very good adhesion to concrete, quick-drying, can be over-coated, preservative-free, layer thickness: min. 0.1 mm, max. 30 mm

Notes
not essential to use in external wall insulation systems

Approx. consumption	1.5 kg/m² per mm layer thickness
Colour shade	light grey
Application	

StoLevell Calce FS

Ecological, functional filler on a lime base in accordance with EN 998-1

Area of application
interior, as functional filler compound for the StoCalce Functio sorption system

Properties
mineral, preservative-free, ideally matched to the StoCalce Functio Sorption System, very good non-sag properties, very good moisture management, highly diffusion-open, contributes towards optimising the ambient climate, easy and supple application, best regulation of humidity, rapid sorption and desorption, MBV practical > 2.0 (g/m² * % RH) in the system with StoLevell Calce RP, StoCalce Activ

Approx. consumption	1.10 kg/m² per mm layer thickness
Colour shade	natural white StoColor
Application	

Plasters

Detached house, Stuttgart, DE
Photo: Martin Baitinger, Böblingen, DE

Overview of plasters

Product	Product properties				Solution		Design		
	Binding agent base	Wasser-dampfdiffu-sion	Reaction to fire (class)	Seal of approval	Mildew-inhib-iting	Mechanical resistance	Texture/ graining	Colour range	Whiteness
Organic finishing plasters									
StoGranit	organic	■	A2-s1, d0			■ ■	natural stone plaster (1.5 mm)	■	
Silicate finishing plasters									
StoDecosit K/R/MP/ SP	silicate	■ ■	A2-s1, d0		■ ■	■ ■	stippled plaster, rilled plaster, free-style textured plaster, spray plaster	■	■ ■
Mineral finishing plasters									
StoCalce Activ K/MP	lime	■ ■	A1		■	■	stippled plaster, free-style textured plaster	□	■
StoCalce Natura K/ MP	lime	■ ■	A1		■	■	stippled plaster, free-style textured plaster		□
Mineral decorative plasters/fillers									
StoCalce Marmorino	lime	■			■	■	decorative filler	■	■
StoCalce Veneziano	lime	■			■	■	decorative filler	■	□
StoCalce Fondo	lime	■			■	■	decorative filler	■	□

■ ■ excellent
■ good
□ to a limited extent

Silicate finishing plasters

StoDecosit K/R/MP

Preservative-free dispersion silicate plaster

Area of application
interior, highly suitable for the creative design of wall areas and ceiling surfaces, especially for sensitive areas, e.g. nursery schools, hospitals, for high-quality refurbishments of mould-infested interior surfaces

Properties
preservative-free, resource-efficient, 97 % ingredients of natural origin, plaster in accordance with DIN EN 15824, high whiteness, fast and easy application, immediately suitable for texturing, hard-wearing surface, very good mildew-inhibiting properties, diffusion-open, very good moisture management, perfectly matched to StoCalce Functio in the system, solvent-free, plasticiser-free, low-emission, free from substances that contribute to "black dust" on walls, TÜV seal of quality - externally monitored, eco-certified - fulfills the strictest criteria in terms of environment, health and functionality (natureplus®)

Notes
grain size ≤ 1.0 mm: the substrate should meet at least quality level Q3., grain size > 1.0 mm: the substrate should meet at least quality level Q2., uncoated gypsum plasterboards: observe the light protection in accordance with BFS data sheet no. 12., Use StoPrep In as a background to extend the open time, StoPrep Sil for a natureplus® system., Adapt the colour shade to that of the finish.

Approx. consumption	K 1.0	2.00 kg/m²
	K 1.5	2.20 kg/m²
	K 2.0	2.90 kg/m²
	R 1.0	1.60 - 1.80 kg/m²
	R 1.5	2.20 kg/m²
	MP 0.5	1.50 - 4.00 kg/m²
Appearance	grain: stippled plaster texture R: rilled plaster texture MP: free-style textured plaster	
Colour shade	white StoColor	
Application		

StoDecosit SP

Preservative-free dispersion silicate spray plaster

Area of application
interior, highly suitable for the creative design of wall areas and ceiling surfaces, especially for sensitive areas, e.g. nursery schools, hospitals, for high-quality refurbishments of mould-infested interior surfaces

Properties
preservative-free, resource-efficient, 97 % ingredients of natural origin, plaster in accordance with DIN EN 15824, high whiteness, very good hiding power, efficient application with different spraying equipment, minimum rebound, hard-wearing surface, very good mildew-inhibiting properties, diffusion-open, very good moisture management, perfectly matched to StoCalce Functio in the system, solvent-free, plasticiser-free, low-emission, free from substances that contribute to "black dust" on walls, TÜV seal of quality - externally monitored, eco-certified - fulfills the strictest criteria in terms of environment, health and functionality (natureplus®)

Notes
for spray plasters, the substrate needs to be at least quality level Q3, uncoated gypsum plasterboards: observe the light protection in accordance with BFS data sheet no. 12.

Approx. consumption	SP 1.0	0.5 - 0.8 kg/m²
	SP 1.5	0.7 - 0.9 kg/m²
Appearance	SP: spray plaster	
Colour shade	white StoColor	
Application		

Organic finishing plasters

StoGranit

Organic natural stone render

Area of application
interior, for surfaces subject to mechanical stress

Properties
resistant to mechanical stress, highly elastic, maximum resistance to soiling, water vapour permeable

Notes
apply StoPrep In as a priming coat (adapt the colour shade to StoGranit)

Approx. consumption	4.00 - 5.00 kg/m²
Appearance	grain size: 1.5 mm
Colour shade	special colour shades PG12 available on request at a surcharge (minimum order quantity 46 kg) Collection
Application	


800 (00180-023)


801 (00180-024)


802 (00180-029)


803 (00180-025)


804 (00180-030)


808 (00180-031)


812 (00180-032)


813 (00180-033)


821 (00180-027)


824 (00180-028)

Mineral finishing plasters

StoCalce Activ K/MP

Ecological, mineral finishing plaster on a lime base in accordance with EN 998-1

Area of application
interior, modified finishing plaster in accordance with EN 998-1, highly suitable for Sto internal insulation systems, as a finishing plaster for the StoCalce Functio Functio sorption system

Properties
mineral, ideally matched to the StoCalce Functio Sorption System, highly diffusion-open, contributes towards optimising the ambient climate, simple and supple application, very good moisture management, best regulation of humidity, rapid sorption and desorption, MBV practical > 2.0 (g/m² * % RH) in the system with StoLevell Calce RP, StoCalce Activ

Approx. consumption	K 1.5	2.00 kg/m²
	MP 1,0	1.70 - 4.00 kg/m²
Appearance	as a stippled texture (K) or free-style textured render (MP)	
Colour shade	white	
Application		

StoCalce Natura K/MP

Ecological, mineral finishing plaster on a lime base, natural white

Area of application
interior, modified finishing plaster in accordance with EN 998-1

Properties
mineral, preservative-free, diffusion-open

Approx. consumption	K 1.0	2.00 kg/m²
	K 1.5	2.50 kg/m²
	MP 0.5	1.40 - 4.00 kg/m²
Appearance	as a stippled texture (K) or free-style textured render (MP)	
Colour shade	natural white	
Application		

Mineral decorative plasters/fillers

StoCalce Marmorino

Ecological, mineral decorative filler on a lime base

Area of application
interior, as a thin-layer decorative filler coating on smooth substrates, for creating high-class wall and ceiling surfaces, not suitable for wet areas

Properties
mineral, no use of preservatives (share < 0.005 %), very good moisture management, diffusion-open, highly permeable to water vapour, contributes towards optimising the ambient climate, various application techniques possible, great design variety, tested for harmful substances, solvent- and plasticiser-free, low-emission, TÜV seal of quality - externally monitored, free from substances that contribute to "black dust" on walls

Approx. consumption	0.2 kg/m² per application cycle
Appearance	smoothed silk gloss marble appearance
Colour shade	natural white, tintable with StoLook Punto F StoColor
Application	

StoCalce Veneziano

Ecological, highly decorative, paste-form, mineral smoothing filler on a lime base

Area of application
interior, decorative filler coating for smooth substrates, for creating high-quality wall and ceiling surface areas, not suitable for wet areas

Properties
mineral, no use of preservatives (share < 0.005 %), very good moisture management, diffusion-open, highly permeable to water vapour, contributes towards optimising the ambient climate, great design variety, stone-type surface finish, hard-wearing, tested for harmful substances, solvent- and plasticiser-free, low-emission, TÜV seal of quality - externally monitored, free from substances that contribute to "black dust" on walls

Approx. consumption	0.8 - 1.0 kg/m² per application cycle
Appearance	matt smoothed stone appearance
Colour shade	natural white, tintable with StoLook Punto F, Giallo Mori (yellow Mori marble), Rosso Verona (red Veronese marble), Verde Alpi (green Alpine marble), Nero Ebano (black marble), Coccio Pesto (cocciopesto), own collection in StoCalce Deco
Application	

StoCalce Fondo

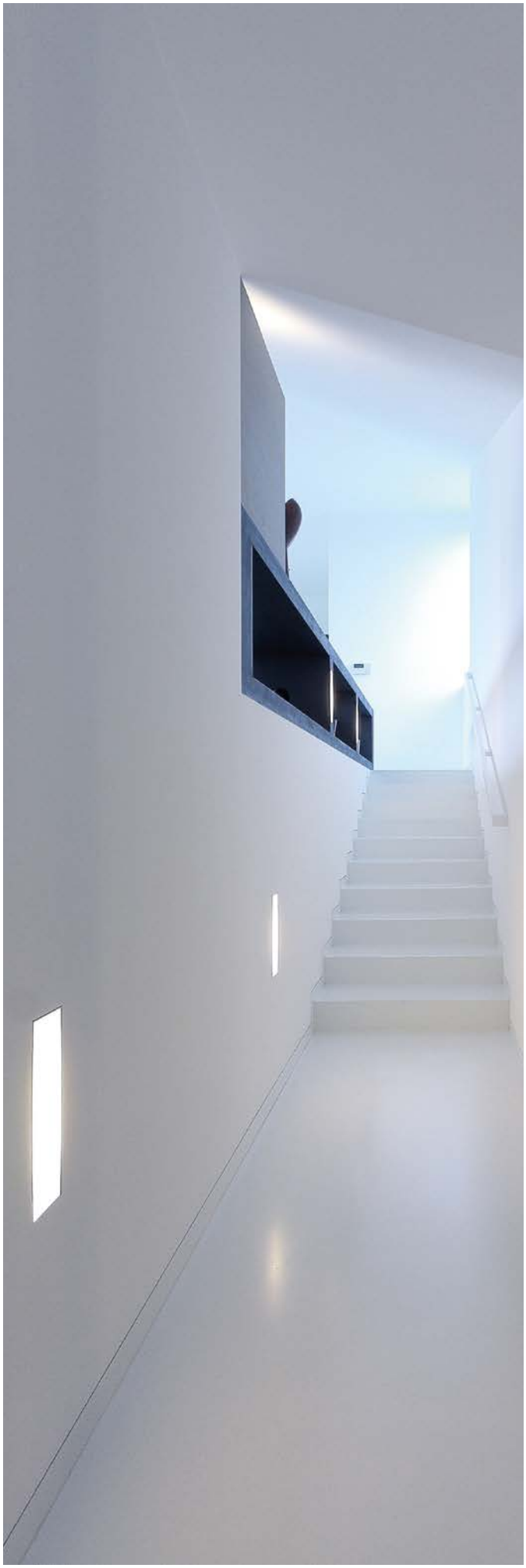
Ecological, mineral decorative filler on a lime base

Area of application
interior, for creating smooth surfaces as a substrate for StoCalce Marmorino, StoCalce Veneziano, and StoCalce Effetto, as a float-finished finishing coat, as a substrate for StoLook Lasura and StoSil Patina, not suitable for wet areas

Properties
mineral, very good moisture management, diffusion-open, highly permeable to water vapour, contributes towards optimising the ambient climate, various application techniques possible, great design variety, substrate-levelling, tested for harmful substances, solvent- and plasticiser-free, low-emission, TÜV seal of quality - externally monitored, free from substances that contribute to "black dust" on walls, no use of preservatives (share < 0.005 %)

Approx. consumption	0.8 - 1.0 kg/m² per application cycle
Appearance	matt with black marble grains
Colour shade	natural white StoColor
Application	

Interior paints



Dom K2, Kynceľová, SK
Photo: Braňo Havorka, Banská Bystrica, SK

Overview of interior paints

Product	Product properties						Solution						Design
	Wet-scrub resistance class (in accordance with EN 13300)	Hiding power (in accordance with EN 13300)	Gloss level (in accordance with EN 13300)	Seal of approval	Glancing light	Texture-retaining	Isolating	Resistance to surface disinfectants	Suitable for foodstuff industry	Mildew-inhibiting	Breaks down odours/harmful substances	Protection against electrosmog	Colour range
Premium paints													
StoColor Titanium	1	1	dead-matt					■■	■■				■■
Hard-wearing paints													
StoColor Opticryl Gloss	1	2	gloss			■■		■■	■■				■■
StoColor Opticryl Satin	1	2	mid sheen			■■		■■	■■				■■
StoColor Opticryl Satinmatt	1	2	mid sheen			■■		■■	■■				■■
StoColor Opticryl Matt	1	2	dead-matt			■■		■■	■■				■■
Rapid paints													
StoColor Rapid	3	1	dead-matt										■
StoColor Rapid Ultramatt	2	1	dead-matt		■■	■		■■					■
StoColor Rapid Satin	1	1	mid sheen			■		■■					■
Ecological paints													
StoColor Sil In	2	1	dead-matt					■■	■■	■■			■
StoColor Sil Mineral	3	2	dead-matt							■			■
StoColor Calcetura	3	3	dead-matt							■			natural white

■■ excellent
■ good
☐ to a limited extend

Overview of interior paints

Product	Product properties						Solution						Design
	Wet-scrub resistance class (in accordance with EN 13300)	Hiding power (in accordance with EN 13300)	Gloss level (in accordance with EN 13300)	Seal of approval	Glancing light	Texture-retaining	Isolating	Resistance to surface disinfect-ants	Suitable for foodstuff industry	Mildew-inhibiting	Breaks down odours/harmful substances	Protection against electrosmog	Colour range
Standard paints													
StoColor In	3	2	dead-matt										■■
StoColor Basic	3	2	dead-matt										■
Functional paints													
StoColor Puran Satin	1	2	mid sheen			■■		■■	■■				■■
StoColor Climasan	2	1	dead-matt					■			■■		■
StoColor Isol W	1	2	matt				■■						■
StoColor Isol	2	2	dead-matt				■■						■

■■ excellent ■ good □ to a limited exten

Wet-scrub resistance	
Class 1	< 5 µm at 200 strokes
Class 2	≥ 5 µm and < 20 µm in case of 200 strokes (“abrasion-resistant” in accordance with the old DIN 53778)
Class 3	≥ 20 µm and < 70 µm in case of 200 strokes (“wash-resistant” in accordance with the old DIN 53778)
Class 4	< 70 µm at 40 strokes
Class 5	≥ 70 µm at 40 strokes

Contrast ratio (hiding power)		
Class 1	≥ 99,5	classification in accordance with consumption and spreading rate in m²/l
Class 2	≥ 98 and < 99,5	
Class 3	≥ 95 and < 98	
Class 4	< 95	

Sto-White Shades Collection	
AW 11	yellowish aged white
AW 15	greyish aged white
STH 01	approx. RAL 9010
STH 02	approx. NCS S 0500 N
STH 04	approx. RAL 9016

Premium paints

StoColor Titanium

Dead-matt interior emulsion paint, tested for harmful substances, wet-scrub resistance 1 and hiding power 1 in accordance with EN 13300

Area of application
interior, as a highly covering emulsion paint on wall and ceiling areas, for areas subject to high stress (e.g. staircases, gymnasiums, etc.), can be used in food-processing areas

Properties
very good for touching up, high whiteness, very good filling capacity, resistance to surface disinfectants in accordance with the test report, solvent- and plasticiser-free, low-emission, TÜV seal of quality - externally monitored, free from substances that contribute to "black dust" on walls

Notes
aged white AW11/AW15, RAL 9010, RAL 9016, NCS S 0500N are tinted variants but cost the same as white

Approx. consumption	0.14 - 0.17 l/m² per paint coat
Appearance	dead-matt in accordance with EN 13300
Colour shade	white, aged white AW11/AW15, STH01 (RAL 9010), STH02 (NCS S 0500N), STH04 (RAL 9016)
Application	

Hard-wearing paints

StoColor Opticryl Matt

Dead-matt interior acrylate paint, wet-scrub resistance 1 and hiding power 2 in accordance with EN 13300, tested for harmful substances

Area of application
interior, for texture-retaining and hard-wearing wall and ceiling surfaces, especially for StoTap/StoTex wall coverings

Properties
good hiding power, good flow properties, high whiteness, resistance to surface disinfectants in accordance with the test report, non-combustible or of limited combustibility, depending on build-up, solvent- and plasticiser-free, low-emission, TÜV seal of quality - externally monitored, free from substances that contribute to "black dust" on walls, not harmful for food, TÜV-certified

Notes
aged white AW11/AW15, RAL 9010, RAL 9016, NCS S 0500N are tinted variants but cost the same as white

Approx. consumption	0.13 - 0.15 l/m² per paint coat
Appearance	dead-matt in accordance with EN 13300
Colour shade	white, aged white AW11/AW15, STH01 (RAL 9010), STH02 (NCS S 0500N), STH04 (RAL 9016)
Application	

StoColor Opticryl Satinmatt

Silk matt interior acrylate paint, tested for harmful substances, wet-scrub resistance 1 and hiding power 2 in accordance with EN 13300

Area of application
interior, for texture-retaining and hard-wearing wall and ceiling surfaces, especially for StoTap/StoTex wall coverings

Properties
good hiding power, very good flow properties, high whiteness, resistance to surface disinfectants in accordance with the test report, non-combustible or of limited combustibility, depending on build-up, solvent- and plasticiser-free, low-emission, TÜV seal of quality - externally monitored, free from substances that contribute to "black dust" on walls, not harmful for food, TÜV-certified, easy to clean, suitable for dark colour shades

Notes
aged white AW11/AW15, RAL 9010, RAL 9016, NCS S 0500N are tinted variants but cost the same as white

Approx. consumption	0.13 - 0.15 l/m² per paint coat
Appearance	mid sheen in accordance with EN 13300
Colour shade	white, aged white AW11/AW15, STH01 (RAL 9010), STH02 (NCS S 0500N), STH04 (RAL 9016)
Application	

StoColor Opticryl Satin

Silk gloss interior acrylate paint, wet-scrub resistance 1 and hiding power 2 in accordance with EN 13300, tested for harmful substances

Area of application
interior, for texture-retaining and hard-wearing wall and ceiling surfaces, especially for StoTap/StoTex wall coverings

Properties
good hiding power, good flow properties, high whiteness, resistance to surface disinfectants in accordance with the test report, non-combustible or of limited combustibility, depending on build-up, solvent- and plasticiser-free, low-emission, TÜV seal of quality - externally monitored, free from substances that contribute to "black dust" on walls, not harmful for food, TÜV-certified, very good to clean, highly suitable for dark colour shades

Notes
aged white AW11/AW15, RAL 9010, RAL 9016, NCS S 0500N are tinted variants but cost the same as white

Approx. consumption	0.13 - 0.15 l/m² per paint coat
Appearance	mid sheen in accordance with EN 13300
Colour shade	white, aged white AW11/AW15, STH01 (RAL 9010), STH02 (NCS S 0500N), STH04 (RAL 9016)
Application	

StoColor Opticryl Gloss

Gloss interior acrylate paint, tested for harmful substances, wet-scrub resistance 1 and hiding power 2 in accordance with EN 13300

Area of application
interior, for texture-retaining and hard-wearing wall and ceiling surfaces, especially for StoTap/StoTex wall coverings

Properties
good hiding power, good flow properties, high whiteness, resistance to surface disinfectants in accordance with the test report, non-combustible or of limited combustibility, depending on build-up, solvent- and plasticiser-free, low-emission, TÜV seal of quality - externally monitored, free from substances that contribute to "black dust" on walls, not harmful for food, TÜV-certified, very good to clean

Notes
aged white AW11/AW15, RAL 9010, RAL 9016, NCS S 0500N are tinted variants but cost the same as white

Approx. consumption	0.13 - 0.15 l/m² per paint coat
Appearance	gloss in accordance with EN 13300
Colour shade	white, aged white AW11/AW15, STH01 (RAL 9010), STH02 (NCS S 0500N), STH04 (RAL 9016)
Application	

Rapid paints

StoColor Rapid

Highly covering, dead-matt interior emulsion paint, tested for harmful substances, wet-scrub resistance 2, and hiding power 1 in accordance with EN 13300

Area of application
interior, as a highly covering emulsion paint on wall and ceiling areas

Properties
high whiteness, very good filling capacity, very good hiding power, solvent- and plasticiser-free, low-emission, TÜV seal of quality - externally monitored, free from substances that contribute to "black dust" on walls

Notes
aged white AW11/AW15, RAL 9010, RAL 9016, NCS S 0500N are tinted variants but cost the same as white

Approx. consumption	0.13 - 0.15 l/m² per paint coat
Appearance	dead-matt in accordance with EN 13300
Colour shade	white, aged white AW11/AW15, STH01 (RAL 9010), STH02 (NCS S 0500N), STH04 (RAL 9016)
Application	

StoColor Rapid Ultramatt

Highly covering, dead-matt interior emulsion paint, tested for harmful substances, wet-scrub resistance 2, and hiding power 1 in accordance with EN 13300

Area of application
interior, as a dead-matt, highly covering emulsion paint on wall and ceiling areas sensitive to glancing light

Properties
very good for touching up, very good hiding power, very high whiteness, resistance to surface disinfectants in accordance with the test report, solvent- and plasticiser-free, low-emission, TÜV seal of quality - externally monitored, free from substances that contribute to "black dust" on walls

Notes
aged white AW11/AW15, RAL 9010, RAL 9016, NCS S 0500N are tinted variants but cost the same as white

Approx. consumption	0.13 - 0.15 l/m² per paint coat
Appearance	dead-matt in accordance with EN 13300
Colour shade	white, aged white AW11/AW15, STH01 (RAL 9010), STH02 (NCS S 0500N), STH04 (RAL 9016)
Application	

Ecological paints

StoColor Sil In

Preservative-free, dead-matt, interior dispersion silicate paint, wet-scrub resistance 2, and hiding power 1 in accordance with EN 13300

Area of application
interior, for paint coats with a mineral appearance on walls and ceilings, especially for sensitive areas, e.g. nursery schools, hospitals, suitable for high-quality refurbishments of mould-infested interior surfaces, thanks to the mildew-inhibiting effect, as a preventative paint coat for food-processing areas, e.g. slaughterhouses, dairies, and breweries

Properties
preservative-free, mildew-inhibiting, resistance to surface disinfectants in accordance with the test report, meets the requirements of foodstuff hygiene, non-combustible depending on build-up, good hiding power, organic content < 5 %, solvent- and plasticiser-free, low-emission, TÜV seal of quality - externally monitored, free from substances that contribute to "black dust" on walls, eco-certified - fulfills the strictest criteria in terms of environment, health and functionality (natureplus®)

Notes
aged white AW11/AW15, RAL 9010, RAL 9016, NCS S 0500N are tinted variants but cost the same as white

Approx. consumption	0.12 - 0.14 l/m² per paint coat
Appearance	dead-matt in accordance with EN 13300
Colour shade	white, aged white AW11/AW15, STH01 (RAL 9010), STH02 (NCS S 0500N), STH04 (RAL 9016)
Application	

StoColor Sil Mineral

Preservative-free, dead-matt, interior dispersion silicate paint, wet-scrub resistance 3, and hiding power 2 in accordance with EN 13300

Area of application
interior, as a silicate paint with mineral appearance for matt coats on walls and ceiling surfaces

Properties
preservative-free, mildew-inhibiting, good hiding power, organic content < 5 %, solvent- and plasticiser-free, low-emission, TÜV seal of quality - externally monitored, free from substances that contribute to "black dust" on walls

Notes
aged white AW11/AW15, RAL 9010, RAL 9016, NCS S 0500N are tinted variants but cost the same as white

Approx. consumption	0.20 l/m² per paint coat
Appearance	dead-matt in accordance with EN 13300
Colour shade	white, aged white AW11/AW15, STH01 (RAL 9010), STH02 (NCS S 0500N), STH04 (RAL 9016)
Application	

StoColor Calcetura

Interior lime paint, preservative-free, wet-scrub resistance 3, and hiding power 3 in accordance with EN 13300

Area of application
interior, on walls and ceilings

Properties
preservative-free, mildew-inhibiting, solvent- and plasticiser-free, low-emission, TÜV seal of quality - externally monitored, free from substances that contribute to "black dust" on walls, eco-certified - fulfills the strictest criteria in terms of environment, health and functionality (natureplus®)

Approx. consumption	0.20 kg/m² per paint coat
Appearance	dead-matt in accordance with EN 13300
Colour shade	natural white
Application	

Standard paints

StoColor In

Dead-matt interior emulsion paint, wet-scrub resistance 3 and hiding power 1 in accordance with EN 13300, tested for harmful substances

Area of application
interior, on walls and ceilings

Properties
high whiteness, non-combustible or of limited combustibility, depending on build-up, solvent- and plasticiser-free, low-emission, TÜV seal of quality - externally monitored, free from substances that contribute to "black dust" on walls

Notes
aged white AW11/AW15, RAL 9010, RAL 9016, NCS S 0500N are tinted variants but cost the same as white

Approx. consumption	0.13 - 0.15 l/m² per paint coat
Appearance	dead-matt in accordance with EN 13300
Colour shade	white, aged white AW11/AW15, STH01 (RAL 9010), STH02 (NCS S 0500N), STH04 (RAL 9016)
Application	

StoColor Basic

Dead-matt interior emulsion paint, tested for harmful substances, wet-scrub resistance 3 and hiding power 2 in accordance with EN 13300

Area of application
interior, on walls and ceilings

Properties
solvent- and plasticiser-free, low-emission, TÜV seal of quality - externally monitored, free from substances that contribute to "black dust" on walls

Notes
aged white AW11/AW15, RAL 9010, RAL 9016, NCS S 0500N are tinted variants but cost the same as white

Approx. consumption	0.12 - 0.14 l/m² per paint coat
Appearance	dead-matt in accordance with EN 13300
Colour shade	white, aged white AW11/AW15, STH01 (RAL 9010), STH02 (NCS S 0500N), STH04 (RAL 9016)
Application	

Functional paints

StoColor Puran Satin

Highly resistant, water-based, 2-component PU gloss paint, wet-scrub resistance 1 and hiding power 2 in accordance with EN 13300

Area of application
interior, for areas subject to very high mechanical impact (e.g. textured wall covering, concrete) on wall and ceiling surfaces, especially for kitchens, baths, laboratory areas, hospitals, operating theatres, food-processing industry

Properties
resistant to surface disinfectants, weak acids, lye and mineral lubricants in accordance with the test report, low-emission and nonylphenol-free, TÜV seal of quality - externally monitored, free from substances that contribute to "black dust" on walls

Notes
aged white AW11/AW15, RAL 9010, RAL 9016, NCS S 0500N are tinted variants but cost the same as white

Approx. consumption	0.15 - 0.20 kg/m² per coat (components A+B)
Appearance	mid sheen in accordance with EN 13300
Colour shade	white, aged white AW11/AW15, STH01 (RAL 9010), STH02 (NCS S 0500N), STH03 (RAL 9003)
Application	

StoColor Climasan

Odour-reducing, dead-matt interior emulsion paint, tested for harmful substances, wet-scrub resistance 2 and hiding power 1 in accordance with EN 13300

Area of application
interior, for walls and ceilings with a sufficient light source, especially suitable for rooms subject to odours and harmful substances

Properties
breaks down harmful organic substance and odours, effective without UV light, very good hiding power, resistant to surface disinfectants, solvent- and plasticiser-free, low-emission, TÜV seal of quality - externally monitored, free from substances that contribute to "black dust" on walls

Notes
aged white AW11/AW15, RAL 9010, NCS S 0500N are tinted variants but cost the same as white

Approx. consumption	0.14 - 0.17 l/m² per paint coat
Appearance	dead-matt in accordance with EN 13300
Colour shade	white, aged white AW11/AW15, STH01 (RAL 9010), STH02 (NCS S 0500N)
Application	

StoColor Isol W

Water-based isolating and renovation paint, wet-scrub resistance 1 and hiding power 2 in accordance with EN 13300

Area of application
interior, on walls and ceilings, for problematic substrates, e.g. with nicotine, soot, lignin, or water stains

Properties
highly isolating, very good hiding power, good flow properties, high whiteness, does not yellow

Notes
aged white AW11/AW15, RAL 9010, RAL 9016, NCS S 0500N are tinted variants but cost the same as white

Approx. consumption	0.13 - 0.15 l/m² per paint coat
Appearance	matt in accordance with EN 13300
Colour shade	white, aged white AW11/AW15, STH01 (RAL 9010), STH02 (NCS S 0500N), STH04 (RAL 9016)
Application	

StoColor Isol

Solvent-containing isolating and renovation paint, wet-scrub resistance 2 and hiding power 2 in accordance with EN 13300

Area of application
interior, for walls and ceilings, for use on problematic substrates (e.g. nicotine, soot, lignin, water stains)

Properties
highly isolating, very good hiding power, good flow properties, high whiteness, low-tension, non-yellowing, free from aromatic solvents

Notes
aged white AW11/AW15, RAL 9010, RAL 9016, NCS S 0500N are tinted variants but cost the same as white

Approx. consumption	0.13 - 0.15 l/m² per paint coat
Appearance	dead-matt in accordance with EN 13300
Colour shade	white, aged white AW11/AW15, STH01 (RAL 9010), STH02 (NCS S 0500N), STH04 (RAL 9016)
Application	dilutable with StoFluid AF

Tinting concentrates

StoTint Aqua

Binder-free tinting paste

Area of application
exterior and interior, for tinting water-based coating systems

Properties
only for paints and renders/plasters

Notes
depending on the coating material, add max. 1 % parts by weight, first tint the material, then dilute it

Appearance	depending on the colour intensity and material used (paint, render/plaster)
Colour shade	ochre (02305-001), umber (02305-002), oxide red (02305-003), oxide green (02305-004), black (02305-005), lemon yellow (02305-006), golden (02305-007), cobalt blue (02305-008), brick red (02305-009), brown (02305-010)

ochre
(02305-001)

umber
(02305-002)

oxide-red
(02305-003)

oxide-green
(02305-004)

black
(02305-005)

lemon-yellow
(02305-006)

golden
(02305-007)

cobalt-blue
(02305-008)

brick-red
(02305-009)

brown
(02305-010)

Effect aggregates

StoLook Lasura

Interior emulsion lasure, wet-scrub resistance 2 in accordance with EN 13300

Area of application
interior, for decorative glazing techniques on mineral and organic coatings

Properties
low-emission

Approx. consumption	0.06 l/m² per paint coat
Appearance	dead-matt in accordance with EN 13300
Colour shade	transparent, tintable with StoTint Aqua
Application	with painter's brush, stencil brush, roller, natural sponge, cloth, etc. depending on the desired lasure effect

StoSil Patina

Ready-to-use, dead-matt dispersion silicate lasure, tested for harmful substances

Area of application
interior, for a decorative lasure coating onto silicate and lime coatings, especially for sensitive areas, e.g. nursery schools, hospitals, for high-quality refurbishments of mould-infested interior surfaces

Properties
very good mildew-inhibiting properties, highly permeable to water vapour, no use of preservatives (share < 0.005 %), solvent- and plasticiser-free, low-emission, TÜV seal of quality - externally monitored, free from substances that contribute to "black dust" on walls

Approx. consumption	0.06 l/m² per application cycle
Appearance	dead-matt in accordance with EN 13300
Colour shade	transparent StoColor
Application	with painter´s brush, stencil brush, roller, natural sponge, cloth, etc. depending on the desired lasure effect

StoLook Diamant

Transparent emulsion coating with ultra-fine effect pigments, wet-scrub resistance 2 in accordance with EN 13300

Area of application
interior, for effect coatings on existing coatings

Properties
Wet-scrub resistance class 2

Approx. consumption	0.18 l/m² per paint coat
Appearance	with ultra-fine, mother-of-pearl-type, reflective glittering mica chips transparent
Application	

StoLook Piccolo

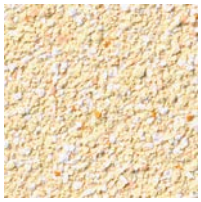
Multicolour chips coating, matt

Area of application
interior, for high-quality decoration on wall and ceiling surfaces, especially for public, private, and heavily frequented areas

Properties
scratch-resistant and shock-proof, cleanable (for application by roller), free from substances that contribute to "black dust" on walls, resistant to surface disinfectants, non-combustible, solvent- and plasticiser-free, low-emission, ready-to-use, light-resistant

Notes
Substrate colour shades should be ordered with the colour shade number of the finishing coat.

Approx. consumption	0.30 - 0.40 kg/m² application by roller 0.80 kg/m² spray application 0.60 - 0.70 kg/m² trowel application
Appearance	matt
Colour shade	18 standard colour shades, special colours possible on request at a surcharge (minimum order quantity of 25 kg) Collection
Application	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LP 0219
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LP 0203
(00330-052)


LP 0220
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LP 0221
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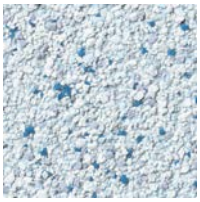
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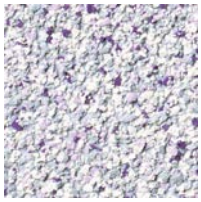
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LP 0228
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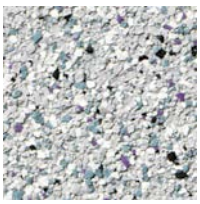
LP 0213
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LP 0229
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LP 0211
(00330-060)


LP 0210
(00330-059)

StoLook Punto Z

White marble sand for StoCalce Deco 0.5-1.0 mm

Area of application
interior, for adding to StoCalce Veneziano and StoCalce Fondo

Properties
for implementing special application techniques

Appearance	sandy white

StoLook Punto F

Extra-fine marble powder or cocciopesto for tinting StoCalce Veneziano and StoCalce Marmorino

Area of application
interior, for natural tinting of StoCalce Veneziano, StoCalce Marmorino, StoLevell Calce FS and StoCalce Activ

Properties
for producing surface finishes with marble and stone appearance

Colour shade	Giallo Mori (yellow Mori marble), Rosso Verona (red Veronese marble), Verde Alpi (green Alpine marble), Nero Ebano (black marble), Coccio Pesto (cocciopesto)

StoLook Oro/Argento/Rame

Effect powder in gold, silver, copper for decorative techniques

Area of application
interior, for adding to StoLook Wax, StoLook Wax forte, StoLook Lasura and StoSil Patina, finish for StoCalce Deco surfaces

Colour shade	available colours: StoLook Oro (gold), StoLook Argento (silver) and StoLook Rame (copper)

StoLook Wax

Transparent protective wax

Area of application
interior, as a protective coating for StoCalce Marmorino, StoCalce Veneziano, and StoCalce Fondo surfaces, as finishing coat in combination with StoLook Effect Powder, do not use in splash zones

Properties
protects the surface, resistant to mechanical stress, provides protection against early soiling

Approx. consumption	0.05 l/m² per application cycle
Appearance	enhances the gloss and depth effect
Colour shade	milky white, tintable with StoTint Aqua
Application	apply a thin and uniform wax layer and polish it using a cloth or a non-abrasive spatula

StoLook Wax forte

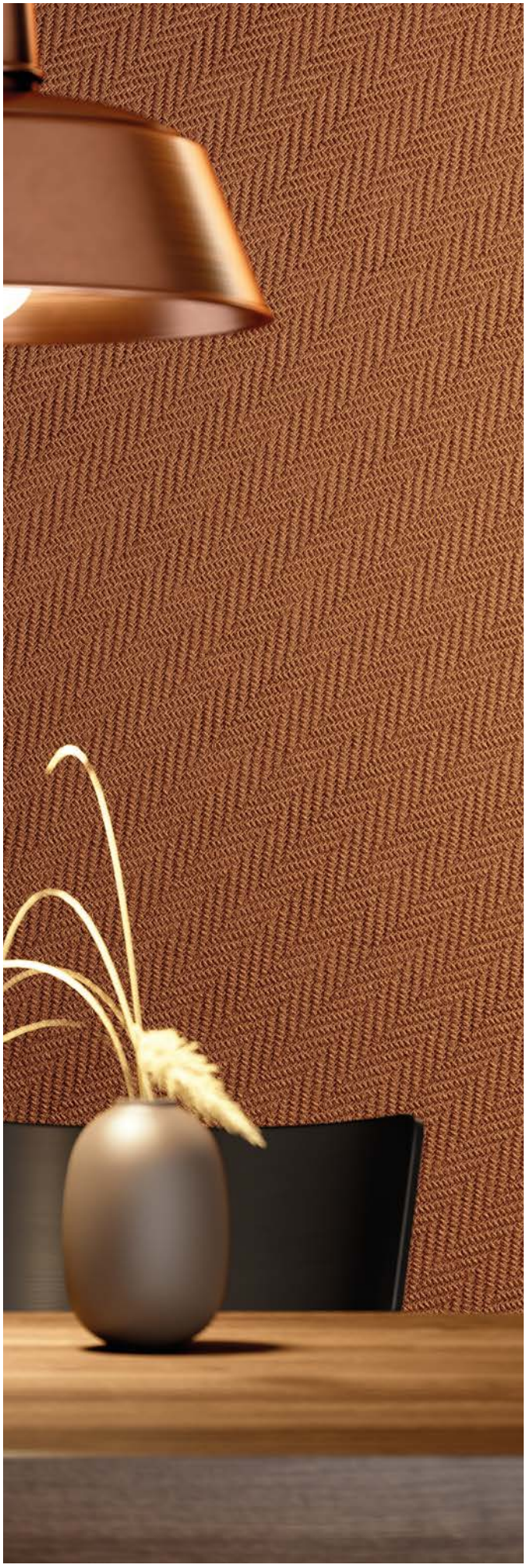
Transparent protective wax for rooms exposed to moisture

Area of application
interior, as a protective coating for StoCalce Marmorino, StoCalce Veneziano, and StoCalce Fondo surfaces, as finishing coat for surfaces in combination with StoLook effect powders, suitable for areas exposed to moisture, do not use in splash zones

Properties
provides temporary protection against water and other liquids (e.g. coffee or wine), resistant to mechanical stress

Approx. consumption	0.05 l/m² per application cycle
Appearance	enhances the gloss and depth effect intensifies the colour shade if StoLook Wax forte is used as a sealing coat, different levels of compaction can intensify the light-dark contrast
Colour shade	milky white, tintable, e.g. with Mixol
Application	apply a thin and uniform wax layer and polish it using a cloth or a non-abrasive spatula

Interior coverings



Overview of wall and ceiling coverings

Product	Product properties					Solution		Design
	Seal of approval	Suitable for wallpapering machines	Aqua-Quick Technology	Available with pigmentation	Wall pasting method	Crack-bridging	Mechanical resistance	Scope for design
StoTap Pro		■	■	■	■	■	■■	■■
StoTex Avantgarde		■			■	■	■	■
StoTex Classic		■	■	■	■	■	■	■
StoEuro Trend		■						

■■ excellent
■ good
□ to a limited extent

Bonding

StoColl Tap

Adhesive for nonwovens on a silicate emulsion base

Area of application
interior, for glass and cellulose nonwovens e.g. StoEuro Trend wood-chip wallpapers, and StoEuro Vlies, on walls and ceilings

Properties
tested for harmful substances, ideal for smooth nonwovens, non-drip, good wet adhesive strength when applied to ceilings (overhead work), very good and even material spreading, suitable for airless equipment and wallpapering devices, easy to shift the wallpaper strip in the wet adhesive layer, low-emission, solvent- and plasticiser-free, TÜV seal of quality - externally monitored, free from substances that contribute to "black dust" on walls, water-dilutable, diffusion-open

Approx. consumption	0.16 kg/m² depending on the type of nonwoven and substrate
Colour shade	transparent
Application	

StoColl Tex

Mesh adhesive on a dispersion base

Area of application
interior, for StoTex textured wall coverings, StoTap nonwovens, and heavy wallpapers, on walls and ceilings

Properties
very good wet adhesive strength when applied to ceilings (overhead work), good and even material spreading, suitable for wallpapering devices, easy to shift the wallpaper strip in the wet adhesive layer, low-emission, solvent- and plasticiser-free, free from substances that contribute to "black dust" on walls, water-dilutable, non-combustible or of limited combustibility, depending on build-up

Approx. consumption	0.18 - 0.25 kg/m² depending on the mesh type and substrate
Colour shade	transparent
Application	

Metylan TG/NP
Wallpaper paste

Area of application
interior, for wood-chip wallpaper and wallpaper, Metylan TG for wallpapering devices, Metylan NP especially for new plaster surfaces

Application	

Metylan TG Power Granulate
Wallpaper paste

Area of application
interior, for nonwoven embossed wallpapers with smooth rear sides, paper and wood-chip wallpapers, for standard bonding applications, ideal for wallpapering devices

Notes
pail contains 5 kg

Approx. consumption	2 g/m² priming/pre-pasting 7 g/m² rear side application (brush; machine) 8 g/m² application by roller
Application	

Metylan NP Power Granulate plus
Wallpaper paste

Area of application
interior, for wood-chip wallpaper even on difficult substrates, nonwovens for renovation purposes, embossed wallpapers, vinyl, textured, and textile wallpapers, bonding with special requirements, especially for new plaster surfaces

Notes
pail contains 5 kg

Application	

Glass-fibre nonwovens

StoTap Pro 100 S
Glass-fibre nonwoven, natural white

Area of application
interior, for renovation (crack bridging), refurbishment (substrate reworking), and decoration of wall and ceiling surface areas

Properties
resistant to mechanical stress, crack-bridging (shrinking and drying cracks), dimensionally stable, not respirable, as fibre diameter > 5 µm, coating possible, non-combustible or of limited combustibility, depending on build-up, mass per unit area: approx. 35 g/m²

Notes
finishing coat depends on individual requirements for different areas of application

Approx. consumption	1.00 m²/m² weight approx. 35 g/m²
Format	width of roller cover: approx. 1 m Length of roller cover: 50 m
Appearance	broad scope for colour design see StoTex/StoTap Collection
Colour shade	natural white
Application	

StoTap Pro 100 P

Glass-fibre nonwoven, tested for harmful substances, white pigmentation

Area of application
interior, for renovation (crack bridging), refurbishment (substrate reworking), and decoration of smooth wall and ceiling surfaces

Properties
resistant to mechanical stress, crack-bridging (shrinking and drying cracks), dimensionally stable, Oeko-Tex® standard 100, non-combustible or of limited combustibility, depending on build-up, non-swelling, stable when wet, not respirable, as fibre diameter > 5 µm, coating possible, mass per unit area: approx. 195 g/m²

Notes
finishing coat depends on individual requirements for different areas of application

Approx. consumption	1.00 m²/m² weight approx. 195 g/m²
Format	width of roller cover: approx. 1 m Length of roller cover: 50 m
Appearance	smooth and textureless surface broad scope for colour design see StoTex/StoTap Collection
Colour shade	white pigmentation
Application	

StoTap Pro 100 A

Glass-fibre nonwoven, white pigmentation, with water-activated adhesive coating, tested for harmful substances

Area of application
interior, for renovation (crack bridging), refurbishment (substrate reworking), and decoration of smooth wall and ceiling surfaces, efficient application makes it especially suited for large surfaces

Properties
made of natural raw materials, resistant to mechanical stress, crack-bridging (shrinking and drying cracks), dimensionally stable, Oeko-Tex® standard 100, resistant to rotting, time- and cost-saving application, non-swelling, stable when wet, no additional adhesive necessary, can be coated immediately, non-combustible or of limited combustibility, depending on build-up, not respirable, as glass fibre diameter approx. 10 µm, coating possible, mass per unit area: approx. 215 g/m²

Notes
finishing coat depends on individual requirements for different areas of application

Approx. consumption	1.00 m²/m² weight approx. 215 g/m²
Format	width of roller cover: approx. 1 m Length of roller cover: 25 m Roll length: 40 m
Appearance	smooth and textureless surface broad scope for colour design
Colour shade	white pigmentation
Application	Sto-Aqua-Quick Wallpapering Device

StoTap Pro 300 P

Glass-fibre nonwoven, tested for harmful substances, white pigmentation

Area of application
interior, for renovation (crack bridging), refurbishment (substrate reworking), and decoration of wall and ceiling surface areas, ideal substrate for creative techniques

Properties
resistant to mechanical stress, crack-bridging (shrinking and drying cracks), dimensionally stable, Oeko-Tex® standard 100, non-combustible or of limited combustibility, depending on build-up, non-swelling, stable when wet, not respirable, as fibre diameter > 8 µm, made of natural raw materials, very good for processing with a wallpapering device, coating possible, mass per unit area: approx. 130 g/m²

Notes
finishing coat depends on individual requirements for different areas of application

Approx. consumption	1.00 m²/m² weight approx. 130 g/m²
Format	width of roller cover: approx. 1 m Length of roller cover: 50 m
Appearance	smooth and textureless surface broad scope for colour design
Colour shade	white pigmentation
Application	

Cellulose-based nonwovens

StoTap Pro 500

Cellulose-based nonwoven, white

Area of application
interior, for renovation (crack bridging), refurbishment (substrate reworking), and decoration of smooth wall and ceiling surfaces

Properties
resistant to mechanical stress, crack-bridging (shrinking and drying cracks), dimensionally stable, limited combustibility, no soaking time, application with wallpaper paste makes the nonwoven easier to remove later, coating possible, low-emission, solvent- and plasticiser-free, TÜV seal of quality - externally monitored, free from substances that contribute to "black dust" on walls, mass per unit area approx. 150 g/m² - 160 g/m²

Notes
various finishes are possible depending on the area of application

Approx. consumption	1.33 m/m² weight approx. 150 - 160 g/m²
Format	width of roller cover: approx. 0.75 m Length of roller cover: 25 m
Appearance	smooth and textureless surface broad scope for colour design see StoTex/StoTap Collection
Colour shade	white
Application	

StoTap Pro 550

Light cellulose-based nonwoven, white

Area of application
interior, for renovation (crack bridging), refurbishment (substrate reworking), and decoration of smooth wall and ceiling surfaces

Properties
textureless, resistant to mechanical stress, crack-bridging (shrinking and drying cracks), dimensionally stable, limited combustibility, no soaking time, application with wallpaper paste makes the nonwoven easier to remove later, coating possible, low-emission, solvent- and plasticiser-free, TÜV seal of quality - externally monitored, free from substances that contribute to "black dust" on walls, mass per unit area: approx. 120 g/m² - 130 g/m²

Notes
various finishes are possible depending on the area of application

Approx. consumption	width: 0.75 m	1.33 m/m² weight approx. 120 g/m²
	width: 1.00 m	1.00 m/m² weight approx. 120 g/m²
Format	roll width: approx. 0.75 m or 1.00 m Length of roller cover: 50 m	
Appearance	smooth and textureless surface broad scope for colour design	
Colour shade	white	
Application		

Glass-Fibre Wall Covering

StoTex Avantgarde

Textured wall covering with exclusive textures, natural white, tested for harmful substances

Area of application
interior, especially suitable for prestigious surfaces

Properties
made of natural raw materials, protects the substrate from mechanical stress, crack-bridging (shrinking and drying cracks), dimensionally stable, non-swelling, resistant to rotting, stable when wet, non-combustible or of limited combustibility, depending on build-up, if a suitable coating is applied: mechanically resistant, resistant to disinfectants, and decontaminable, not respirable, as fibre diameter > 5 µm, high-quality Jacquard weaving technique, coating possible

Notes
depending on the requirements, different finishes can be individually selected for different areas of application which are specifically matched to these requirements in their appearance, gloss level, and mechanical strength

Approx. consumption	1.00 m²/m²
Format	width of roller cover: approx. 1 m Length of roller cover: 25 m
Appearance	exclusive mesh textures see StoTex/StoTap Collection
Colour shade	natural white
Application	


StoTex Avantgarde Linea


StoTex Avantgarde Dune


StoTex Avantgarde Mikado

StoTex Classic S

Textured wall covering with classic textures, natural white, tested for harmful substances

Area of application
interior, decorative and functional, suitable for e.g. hotels, catering areas, hospitals, doctor´s surgeries, schools, nursery schools, and private rooms, especially suitable for areas subject to a high level of stress, e.g. corridors and staircases

Properties
made of natural raw materials, protects the substrate from mechanical stress, crack-bridging (shrinking and drying cracks), dimensionally stable, non-swelling, resistant to rotting, stable when wet, Oeko-Tex® standard 100, non-combustible or of limited combustibility, depending on build-up, if a suitable coating is applied: mechanically resistant, resistant to disinfectants, and decontaminable, not respirable, as fibre diameter > 5 µm, coating possible

Notes
depending on the requirements, different finishes can be individually selected for different areas of application which are specifically matched to these requirements in their appearance, gloss level, and mechanical strength

Approx. consumption	1.00 m²/m²
Format	width of roller cover: approx. 1 m length of roller cover: 25 m or 50 m, depending on the mesh texture
Appearance	see StoTex/StoTap Collection eleven mesh textures from super fine to super coarse
Colour shade	natural white
Application	

StoTex Classic 205 S
Super Fine

StoTex Classic 210 S
Fine

StoTex Classic 215 S
Fine

StoTex Classic 220 S
Medium

StoTex Classic 225 S
Medium

StoTex Classic 235 S
Super Coarse

StoTex Classic 240 S
Double Thread

StoTex Classic 245 S
Fine Jute

StoTex Classic 265 S
Herringbone

StoTex Classic P

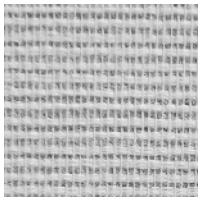
Textured wall covering with classic textures, white pigmentation, tested for harmful substances

Area of application
interior, decorative and functional, suitable for e.g. hotels, catering areas, hospitals, doctor´s surgeries, schools, nursery schools, and private rooms, especially suitable for areas subject to a high level of stress, e.g. corridors and staircases

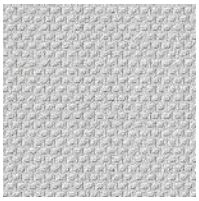
Properties
made of natural raw materials, protects the substrate from mechanical stress, crack-bridging (shrinking and drying cracks), dimensionally stable, non-swelling, resistant to rotting, stable when wet, Oeko-Tex® standard 100, non-combustible or of limited combustibility, depending on build-up, if a suitable coating is applied: mechanically resistant, resistant to disinfectants, and decontaminable, not respirable, as fibre diameter > 5 µm, coating possible

Notes
depending on the requirements, different finishes can be individually selected for different areas of application which are specifically matched to these requirements in their appearance, gloss level, and mechanical strength

Approx. consumption	1.00 m²/m²
Format	width of roller cover: approx. 1 m length of roller cover: 25 m or 50 m, depending on the mesh texture
Appearance	four mesh textures from super fine to coarse see StoTex/StoTap Collection
Colour shade	white pigmentation
Application	



StoTex Classic 205 P
Superfine



StoTex Classic 210 P
Fine

StoTex Classic 220 P
Medium

StoTex Classic A

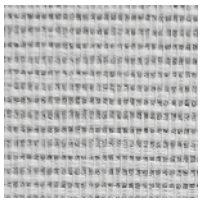
Textured wall covering with classic textures, white pigmentation with water-activated adhesive coating, tested for harmful substances

Area of application
interior, efficient application makes it especially suited for large surfaces, decorative and functional, suitable for e.g. hotels, catering areas, hospitals, doctor´s surgeries, schools, nursery schools, and private rooms, especially suitable for areas subject to a high level of stress, e.g. corridors and staircases

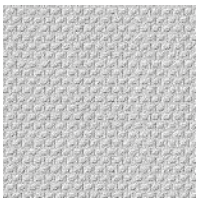
Properties
made of natural raw materials, protects the substrate from mechanical stress, crack-bridging (shrinking and drying cracks), dimensionally stable, non-swelling, resistant to rotting, stable when wet, Oeko-Tex® standard 100, non-combustible or of limited combustibility, depending on build-up, if a suitable coating is applied: mechanically resistant, resistant to disinfectants, and decontaminable, not respirable, as fibre diameter > 5 µm, coating possible

Notes
depending on the requirements, different finishes can be individually selected for different areas of application which are specifically matched to these requirements in their appearance, gloss level, and mechanical strength

Approx. consumption	1.00 m²/m²
Format	width of roller cover: approx. 1 m length of roller cover: 25 m or 50 m, depending on the mesh texture
Appearance	three mesh textures from superfine to medium see StoTex/StoTap Collection
Colour shade	white pigmentation
Application	Sto-Aqua-Quick Wallpapering Device



StoTex Classic 205 A
Superfine



StoTex Classic 210 A
Fine

StoTex Classic 220 A
Medium

Wood-chip wallpapers

StoEuro Trend

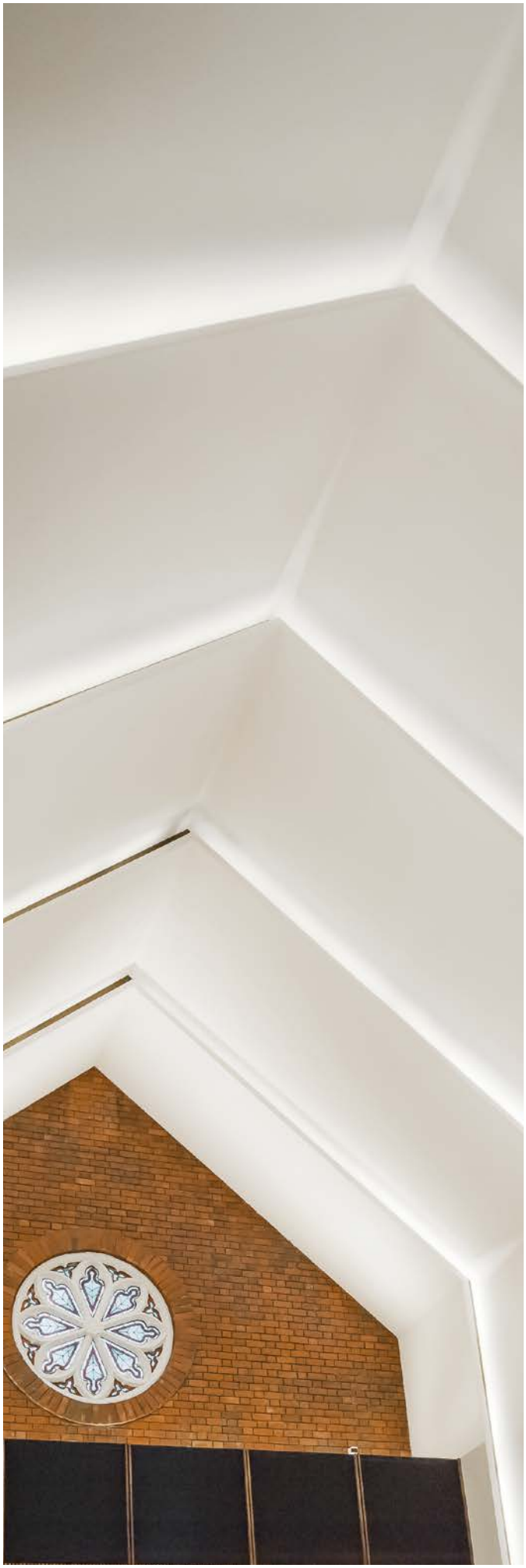
Three-layer wood-chip wallpaper

Area of application
interior, for all interior wall and ceiling surfaces suitable for wallpapering, e.g private living areas, public buildings, council housing, and refurbishment of old buildings

Properties
three-layer wall covering in professional quality, firmly integrated, texture-imparting wood chips, high strength when wet, neat edge cut, high whiteness, can be repainted several times, mainly manufactured from recycled products (Blue Angel), free from chlorine-containing bleaching agents, PVC, and plasticisers, water vapour permeable, "suitable for allergy sufferers" seal

Format	medium/coarse small roll: 0.53 x 33.5 m large roll medium/coarse: 0.75 x 125 m
Appearance	textures: medium (32), coarse (52)
Colour shade	natural white
Application	

Acoustics



Wesley Methodist Church, Singapore, SG

Overview of acoustic systems

System	Version	Acoustic panel	Finish	Maximum sound absorption αW in accordance with EN 11654	Reaction to fire (class) in accordance with EN 13501	Area of application	
						Ceiling	Wall
Suspended acoustic systems	StoSilent Distance C	StoSilent Board 205 C	StoSilent Decor	0,70 (L)[1)]	A2-s1, d0	■■	■■
			StoSilent Top Basic natural	0,55		■■	■■
			StoSilent Top Finish	0,65 (L)[1)]		■■	■■
		StoSilent Board 105 C	StoSilent Decor	0,951)		■■	■■
			StoSilent Top Basic natural	0,65 (L)[1)]		■■	■■
			StoSilent Top Finish	0,80[1)]		■■	■■
	StoSilent Distance S	StoSilent Board 100 S	StoSilent Top Basic natural	0.65		■■	■■
			StoSilent Top Finish	0.80		■■	■■
		StoSilent Board 110 S	StoSilent Decor	0.80		■■	■■
	StoSilent Distance F	StoSilent Board 310 F	StoSilent Decor	0,45 (H)	B-s1, d0	■■	■■
Bonded acoustic systems	StoSilent Direct	StoSilent Board MW 100	visible joints uncoated	1.00	A2-s1, d0	■■	■■
			visible joints StoColor Climasan	0.95		■■	■■
			visible joints StoSilent Decor	1.00		■■	■■
			seamless StoSilent Miral AP	0,85		■■	■■
			seamless StoSilent Decor	0.80		■■	■■
			seamless StoSilent Top Basic - spray plaster	1.00		■■	■■
			seamless StoSilent Top Basic natural	0,75 (single-layer) 0,65 (L) (with intermediate coating)		■■	■■
			seamless StoSilent Top Finish	0.65		■■	■■
	StoSilent Frame	StoSilent Board R 400	colour coating	depending on format snd suspension height	on request	■■	■■
Acoustic plaster systems	StoSilent Compact		StoSilent Sil AP with StoSilent Decor	0,45 (MH)	C-s1, d0	■■	■■
			StoSilent Miral AP optional StoColor Silent	0,30 (H) 15 mm 0,50 (MH) 25 mm	A2-s1, d0	■■	■■
Acoustic elements	StoSilent Modular	StoSilent Modular 100	without	depending on format and suspension height	B-s1, d0	■■	■■
		StoSilent Modular 230	colour coating		A2-s1, d0 (panel) C-s3, d0 (fleece)	■■	■■
	StoSilent Baffle	StoSilent Baffle R 100	colour coating	0,55 (MH)	on request	■■	■■

■■ excellent
■ good

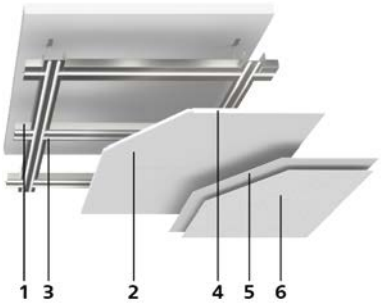
[1)] with 30 mm pad made of 30 mm mineral wool EN 13162 AF5 20 - 30 kg/m²

StoSilent Distance C

Suspended acoustic system made of expanded glass granulate boards Suspended, bonded acoustic system for level, ventilated, seamless surfaces

System advantages

- low weight
- simple application thanks to a homogeneous panel structure
- high degree of stiffness
- low moisture-induced and thermal expansion
- seamless installation possible on areas of up to 200 m²
- harmonious sound absorption across a wide frequency range
- bonded acoustic panels



1 Sub-construction
2 Acoustic panel
3 Bonding
4 Edge finish
5 Intermediate coat
6 Finishing coat

Overview StoSilent Distance C

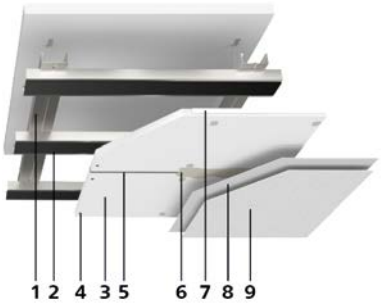
Area of application	▪ interior ▪ for reducing noise and reverberation ▪ as a construction with cavity ▪ for level wall surfaces and level ceiling areas ▪ not bendable ▪ not suitable for wall areas which can be reached by hand or which are exposed to other types of mechanical stress ▪ especially suitable for ceilings and upper wall areas of escape routes, corridors, staircases or meeting places ▪ not suitable for splash zones
Fixing	▪ sub-construction at the same level ▪ metal sub-construction in accordance with EN 13964 with vernier hangers
Reaction to fire	▪ class A2-s1, d0 in accordance with EN 13501-1
Sound absorbtion	▪ coating StoSilent Top on StoSilent Board 105 C: - α_w: maximum 0.80, in accordance with EN 11654 - NRC: maximum 0.80, in ▪ coating StoSilent Decor on StoSilent Board 105 C: - [AlphaW]: maximum 0.95, in accordance with EN 11654 - NRC: maximum 0.90, in ▪ coating StoSilent Top on StoSilent Board 205 C: - α_w: maximum 0.65, in accordance with EN 11654 - NRC: maximum 0.65, in ▪ coating StoSilent Decor on StoSilent Board 205 C: - [AlphaW]: maximum 0.70, in accordance with EN 11654 - NRC: maximum 0.75, in accordance with ASTM C 423 ▪ values depending on the construction height
Design options	▪ acoustic plaster with smooth surface and fine graining with StoSilent Top Basic ▪ acoustic plaster with a smooth surface and finest graining with StoSilent Top Finish ▪ acoustic spray plaster with a textured surface and fine graining with StoSilent Decor M or StoSilent Decor MF
Application	▪ complete selection of detail solutions ▪ simple and fast installation due to light panel weight
Approvals/standards	The relevant European and/or national approvals apply.

StoSilent Distance S

Suspended acoustic system made of expanded glass granulate boards Suspended, screwed acoustic system for level, ventilated, seamless surfaces

System advantages

- low weight
- simple application thanks to a homogeneous panel structure
- high degree of stiffness
- low moisture-induced and thermal expansion
- with airtight facing
- seamless installation possible on areas of up to 200 m²
- harmonious sound absorption across a wide frequency range
- screwed acoustic panels



1 Sub-construction
2 Waterproofing
3 Acoustic panel
4 fixing with screws, bonded board joints
5 Bonding
6 Filler and levelling coat
7 Edge finish
8 Intermediate coat
9 Finishing coat

Overview StoSilent Distance S

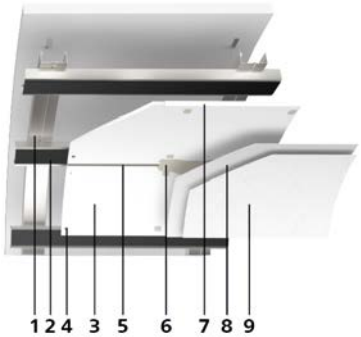
Area of application	· interior · as a construction with cavity · for level wall surfaces and level ceiling areas · for ventilated wall areas and ventilated ceiling areas · not bendable · not suitable for wall areas which can be reached by hand or which are exposed to other types of mechanical stress · especially suitable for ceilings and upper wall areas of escape routes, corridors, staircases or meeting places · not suitable for splash zones
Fixing	· height offset sub-construction · metal sub-construction in accordance with EN 13964 with vernier hangers
Reaction to fire	· class A2-s1, d0 in accordance with EN 13501-1
Sound absorption	· coating StoSilent Top on StoSilent Board 100 S: - α_w: coating StoSilent Decor on StoSilent Board 110 S: - α_w: maximum 0.80, in accordance with EN 11654 - NRC: maximum 0.75, in accordance with ASTM C 423 · values depending on the construction height
Design options	· acoustic plaster with smooth surface and fine graining with StoSilent Top Basic · acoustic plaster with a smooth surface and finest graining with StoSilent Top Finish · acoustic spray plaster with a textured surface and fine graining with StoSilent Decor M or StoSilent Decor MF
Application	· complete selection of detail solutions · simple and fast installation due to light panel weight
Approvals/standards	The relevant European and/or national approvals apply.

StoSilent Distance F

Suspended, bendable acoustic system made of expanded glass granulate boards Suspended, screwed acoustic system for curved, ventilated, seamless surfaces

System advantages

- low weight
- simple application thanks to a homogeneous panel structure
- high degree of stiffness
- low moisture-induced and thermal expansion
- with airtight facing
- seamless installation possible on areas of up to 200 m²
- screwed acoustic panels

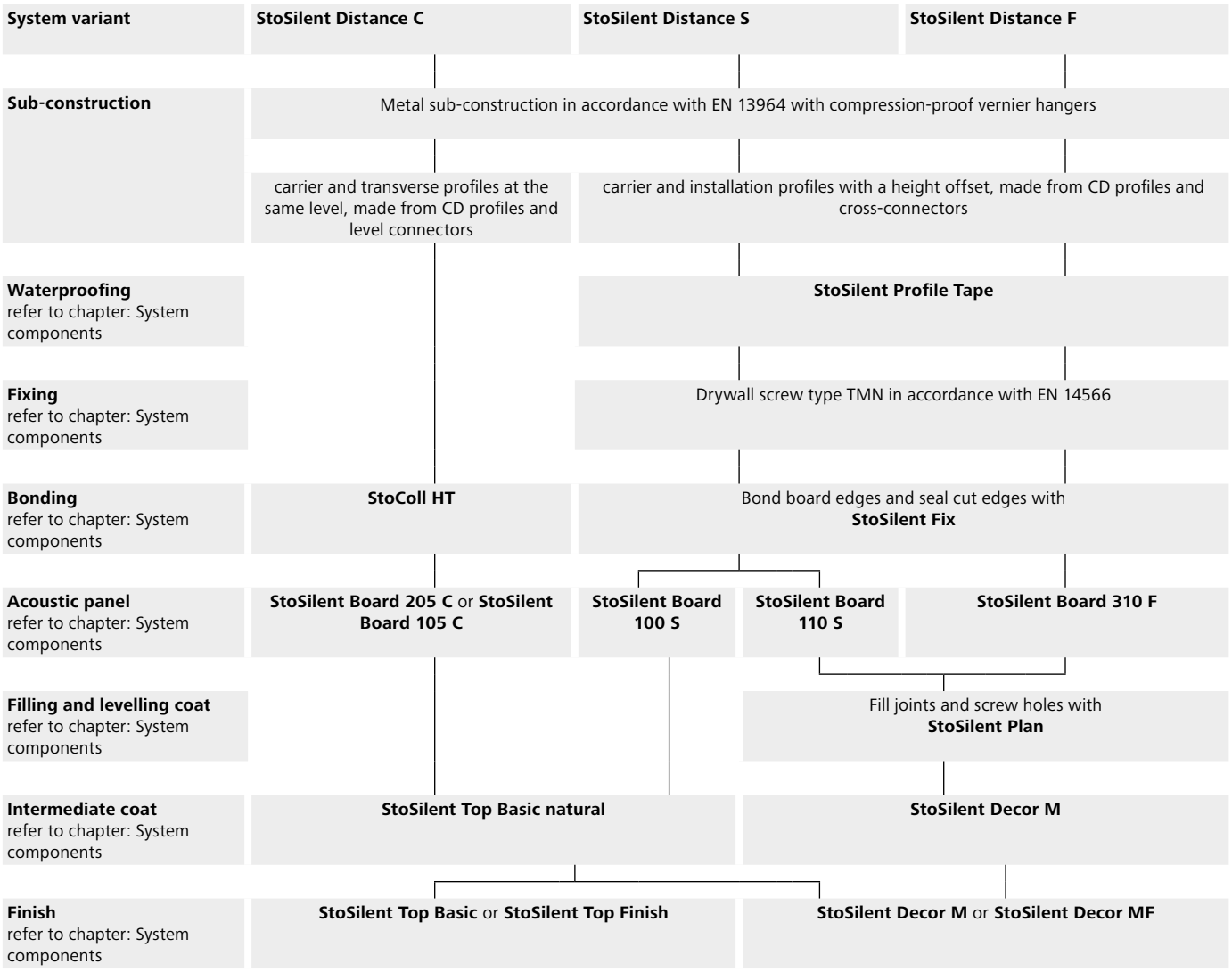


1 Sub-construction
2 Waterproofing
3 Acoustic panel
4 fixing with screws, bonded board joints
5 Bonding
6 Filler and levelling coat
7 Edge finish
8 Intermediate coat
9 Finishing coat

Overview StoSilent Distance F

Area of application	- interior - as a construction with cavity - for level wall surfaces and level ceiling areas - for ventilated wall areas and ventilated ceiling areas - for curved wall areas and curved ceiling areas - bendable from radii of 5 m - not suitable for wall areas which can be reached by hand or which are exposed to other types of mechanical stress - not suitable for splash zones
Fixing	- height offset sub-construction - metal sub-construction in accordance with EN 13964 with vernier hangers
Reaction to fire	- class B-s1, d0 in accordance with EN 13501-1
Sound absorb-tion	- StoSilent Decor coating - StoSilent Board 310 F: α_w in accordance with EN 11654: max. 0.45; NRC in accordance with ASTM C 423: max. 0.50 - values depending on the construction height
Design options	- acoustic spray plaster with a textured surface and fine graining with StoSilent Decor M or StoSilent Decor MF
Application	- complete selection of detail solutions - simple and fast installation due to light panel weight
Approvals/stand-ards	The relevant European and/or national approvals apply.

System description of StoSilent Distance

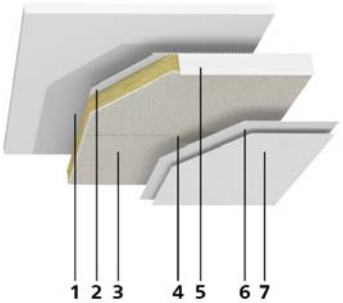


StoSilent Direct

Bonded acoustic system made of coated acoustic boards Directly bonded acoustic system for seamless surfaces

System advantages

- reaction to fire (class) in accordance with EN 13501-1: A2-s1, d0
- reduced reverberation time and noise level
- installation without sub-construction
- easy to apply
- available system thicknesses: 40 mm, 50 mm, and 70 mm

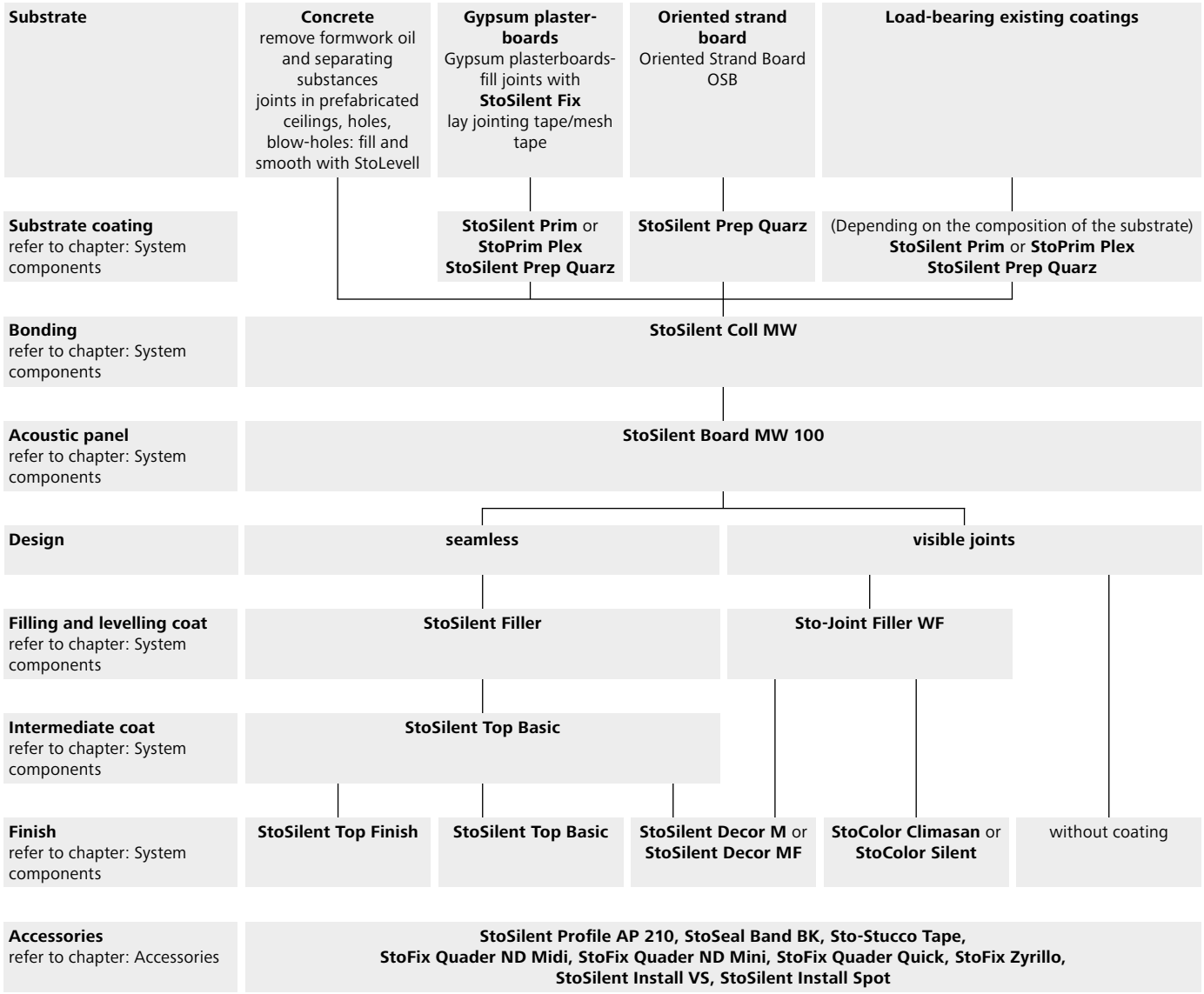


1 Priming coat
2 Bonding
3 Acoustic panel
4 Filler and levelling coat
5 Edge finish
6 Intermediate coat
7 Finishing coat

Overview StoSilent Direct

Area of application	▪ interior ▪ for ceilings and upper wall areas ▪ not suitable for wall areas which can be reached by hand or which are exposed to other types of mechanical stress ▪ especially suitable for ceilings and upper wall areas of escape routes, corridors, staircases or meeting places ▪ suitable for solid building elements, coarse chipboard OSB, and gypsum plasterboard suspended ceilings ▪ exterior, for selected areas (see StoSilent planning manual) ▪ for smooth surfaces and curved surfaces (convex, concave, no spherical surfaces)
Fixing	▪ full-surface bonding directly to substrate
Reaction to fire	▪ reaction to fire (class) in accordance with EN 13501-1: A2-s1, d0 ▪ fire resistance class REI60 in accordance with EN 13501-2 (wooden beam ceiling) classification report no. KB 3.2/19-423-1 ▪ covering in class K260 classification report no. KB 3.2/19-423-2
Sound absorb-tion	▪ seamless, StoSilent Top Finish coating on StoSilent Top Basic: α_w in accordance with EN 11654 max. 0.65; NRC in accordance with ASTM C 423 max. 0.65 ▪ seamless, StoSilent Top Basic finishing coat on StoSilent Top Basic Basic: α_w in accordance with EN 11654 max. 0.65; NRC in accordance with ASTM C 423 max. 0.65 ▪ seamless, StoSilent Decor M/MF coating on StoSilent Top Basic: α_w in accordance with EN 11654 max. 0.80; NRC in accordance with ASTM C 423 max. 0.90 ▪ seamless, single-layer coating StoSilent Top Basic: α_w in accordance with EN 11654 max. 0.75; NRC in accordance with ASTM C 423 max. 0.75 ▪ visible joints, StoSilent Decor M/MF coating: α_w in accordance with EN 11654 max. 1.00; NRC in accordance with ASTM C 423 max. 1.00 ▪ visible joint, StoColor Climasan or StoColor Silent coating: α_w in accordance with EN 11654 max. 0.95; NRC in accordance with ASTM C 423 max. 1.00 ▪ visible joints, without coating: α_w in accordance with EN 11654 max. 1.00; NRC in accordance with ASTM C 423 max. 1.00 ▪ values depend on system thickness in each case
Design options	▪ acoustic plaster with smooth surface and fine graining with StoSilent Top Basic ▪ acoustic plaster with a smooth surface and finest graining with StoSilent Top Finish ▪ acoustic spray plaster with a textured surface and fine graining with StoSilent Decor M or StoSilent Decor MF ▪ StoColor Climasan or StoColor Silent ▪ without coating
Application	▪ by trained specialists
Approvals/stand-ards	The relevant European and/or national approvals apply.

System description of StoSilent Direct

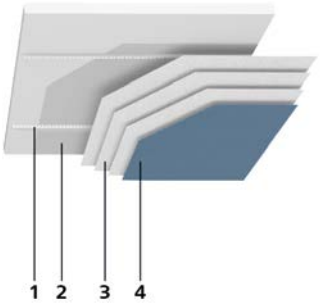


StoSilent Compact

Silicate acoustic plaster system with a finely textured plaster coating Acoustic system for seamless surfaces

System advantages

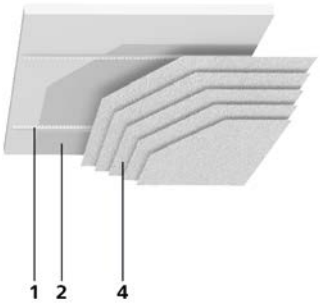
- porous decorative coating
- low weight
- good sound absorption in the medium- and high-frequency range



1 System profile
2 Priming coat
3 Intermediate coat
4 Finishing coat

Overview StoSilent Compact

Area of application	▪ interior ▪ for ceilings and upper wall areas ▪ do not use in brine pools, steam baths and on gypsum fibre boards ▪ for smooth surfaces and barrel vaults
Reaction to fire	▪ reaction to fire (class) in accordance with EN 13501-1: C-s1, d0
Sound absorb-tion	▪ StoSilent Decor coating: α_w in accordance with EN 11654 max. 0.45 (MH); NRC in accordance with ASTM C 423 max. 0.60 ▪ values depend on the application method
Design options	▪ acoustic spray plaster with a textured surface and fine graining with StoSilent Decor M or StoSilent Decor MF ▪ broad scope for colour design
Colour spectrum	▪ white (ca. RAL 9010) ▪ tintable in accordance with the StoColor System
Application	▪ by trained specialists ▪ multi-layer ▪ thickness: 25 mm
Approvals/stand-ards	The relevant European and/or national approvals apply.

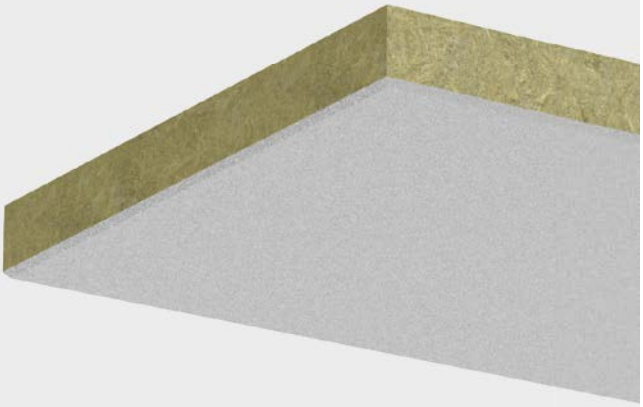


1 System profile
2 Priming coat
3 No intermediate coat required
4 Finishing coat

System description of StoSilent Compact Sil

System profile refer to chapter: System components	**StoSilent Profile PL** **Sto-Stone Paste**
Substrate coating refer to chapter: System components	**StoSilent Prim** or **StoPrim Plex** **StoSilent Prep Quarz**
Intermediate coat refer to chapter: System components	1st and 2nd layer **StoSilent Sil AP Comp. A** with **StoSilent Sil AP Comp. B**
	3rd layer **StoSilent Sil AP Comp. A** with **StoSilent Sil AP Comp. B**
Finish refer to chapter: System components	**StoSilent Decor M** or **StoSilent Decor MF**

System components



Sub-Construction for Acoustic Panels

Compression-proof metal sub-construction in accordance with EN 13964

System profiles

StoSilent Profile PL

Depth gauge for application of even layers

Area of application
for the application of StoSilent Sil AP in an even layer thickness

Properties
made of rigid PVC

Notes
bonded with e.g. Soudal Fix All Flexi

Approx. consumption	1.00 m/m
Format	20 x 20 mm length: 250 cm
Colour shade	white
Application	fix to substrate at intervals of 1 m

StoSilent Profile AS

Stop profile for StoSilent Miral AP

Area of application
stop profile for junctions and for creating friezes, for StoSilent Miral AP

Approx. consumption	1.00 m/m
Format	20 x 10 mm length: 250 cm
Colour shade	white
Application	fix to substrate at intervals of 1 m

Sto-Stone Paste

Dispersion adhesive with extremely high adhesive strength

Area of application
exterior and interior, for all-purpose applications, e.g. on wood particle boards in the prefabricated housing sector, on galvanised sheet metal, wood, expanded polystyrene, as well as for bonding profiles in the area of acoustics

Properties
paste-form, with very high adhesive strength

Approx. consumption	1.00 kg/m²
Colour shade	natural white
Application	

Priming coat

StoPrim Plex

Water-based acrylate deep-acting primer, tested for harmful substances

Area of application
exterior and interior, on mineral and organic substrates and coatings

Properties
absorbency-regulating, surface-consolidating, adhesion-promoting, solvent- and plasticiser-free, low-emission, TÜV seal of quality - externally monitored, free from substances that contribute to "black dust" on walls

Approx. consumption	0.10 - 0.40 l/m² per paint coat
Colour shade	farblos
Application	

StoSilent Prep Quarz

Organic bonding agent for acoustic plasters from Sto

Area of application
interior, for the StoSilent Direct and StoSilent Compact acoustic systems, on substrates that are not suitable for direct plastering due to high density or low absorption capacity (smooth concrete, gypsum plasterboards, type A in accordance with EN 520, etc.)

Properties
filled, adhesion-promoting

Approx. consumption	0.90 kg/m² as a primer (adhesion primer) for spray application 1.0 - 1.1 kg/m² as a primer (adhesion primer) for trowel application
Colour shade	green
Application	

StoPrep Vapor

Two-component vapour barrier suitable for brush and roller application

Area of application
interior, for all types of wet rooms and rooms exposed to moisture (swimming pools, showers, areas of high humidity in industrial buildings, saunas and similar)

Properties
liquid vapour barrier, thixotropic

Approx. consumption	0.60 kg/m² for 2 coats 0.90 kg/m² for 3 coats
Application	

Waterproofing

StoSilent Profile Tape

Self-adhesive special adhesive tape for CD profiles

Area of application
interior, for suspended ceiling and wall structures in the StoSilent Distance system, for the airtight installation of acoustic panels onto the sub-construction, for an airtight seal of the screw points, for attaching to the fine grid of the compression-proof suspended or set-forward metal sub-construction

Properties
self-adhesive, high flexibility, composition: elastomer film based on a rubber system with a self-adhesive facing

Approx. consumption	2.50 m/m²
Format	length: 25 m 60 x 0.5 mm
Colour shade	black
Application	bonding onto sub-construction

StoSilent Board 105 C

Acoustic panel made of expanded glass granulate for suspended ceiling structures

Area of application
Interior, for suspended ceiling and wall structures, for the StoSilent Distance A2 acoustic system, fixing with screws, bonded board joints

Properties
up to 200 m² possible without expansion joint (max. side length: 20 m), reduction in the reverberation time and noise level, improved ability to concentrate, improvement in speech intelligibility, weighted sound absorption coefficient αw of up to 0.80 depending on the suspension height, low weight and high stiffness, low moisture-induced and thermal expansion

Notes
use in brine or saltwater swimming pools only on request, not suitable for radii and areas subject to mechanical stress, not suitable in splash water zones, observe installation instructions

Approx. consumption	1.00 m²/m²
Format	board edge: sharp-edged length x width x thickness 1200 x 625 x 25 mm
Appearance	smooth surface depending on the finishing coat: fine graining with StoSilent Top Basic or ultra-fine graining with StoSilent Top Finish
Colour shade	visible side: white (approx. RAL 9002) rear side: grey (approx. RAL 7047)

StoSilent Board 205 C

Acoustic panel made of expanded glass granulate for suspended ceiling and wall structures

Area of application
Interior, for suspended ceiling structures, for suspended wall structures, for the StoSilent Distance acoustic system, fixing: bonded

Properties
structure without expansion joint up to 200 m² possible and maximum 20 m side length, reduction in the reverberation time, reduction of noise level, improved ability to concentrate, improvement in speech intelligibility, weighted sound absorption coefficient αw: maximum 0.70 (l), depending on the suspension height, low weight, high degree of stiffness

Notes
use the product in brine or saltwater swimming pools only on request, the product is not suitable for splash zones, the product is not suitable for radiuses < 10 m, the product is not suitable for areas subject to mechanical stress, observe the installation instructions of the acoustic panel

Approx. consumption	1.00 m²/m²
Format	board edge: sharp-edged, coated length x width x thickness: 1200 x 800 x 19 mm
Appearance	smooth surface depending on the finishing coat: fine graining with StoSilent Top Basic or ultra-fine graining with StoSilent Top Finish
Colour shade	white, ca. RAL 1013

Acoustic panel

StoSilent Board 100 S

Acoustic panel made of expanded glass granulate for suspended ceiling and wall structures

Area of application
interior, for suspended ceiling and wall structures, for the StoSilent Distance A2 acoustic system, fixing with screws, bonded board joints

Properties
up to 200 m² possible without expansion joint (max. side length: 20 m), reduction in the reverberation time and noise level, improved ability to concentrate, improvement in speech intelligibility, weighted sound absorption coefficient α_w of up to 0.80 depending on the suspension height, low weight and high stiffness, low moisture-induced and thermal expansion

Notes
use in brine or saltwater swimming pools only on request, not suitable in splash water zones, not suitable for radii and areas subject to mechanical stress, observe installation instructions

Approx. consumption	1.00 m²/m²
Format	board edge: sharp-edged/coated length x width x thickness 1200 x 625 x 25 mm
Appearance	smooth surface depending on the finishing coat: fine graining with StoSilent Top Basic or ultra-fine graining with StoSilent Top Finish
Colour shade	visible side: white (approx. RAL 9002), rear side: grey (approx. RAL 7039)

StoSilent Board 110 S

Acoustic panel made of expanded glass granulate for suspended ceiling and wall structures

Area of application
interior, for suspended ceiling and wall structures, for the StoSilent Distance A2 acoustic system, fixing with screws, bonded board joints

Properties
up to 200 m² possible without expansion joint (max. side length: 20 m), reduction in the reverberation time and noise level, improved ability to concentrate, improvement in speech intelligibility, weighted sound absorption coefficient α_w of up to 0.80 depending on the suspension height, low weight and high stiffness, low moisture-induced and thermal expansion

Notes
use in brine or saltwater swimming pools only on request, not suitable in splash water zones, not suitable for radii and areas subject to mechanical stress, observe installation instructions

Approx. consumption	1.00 m²/m²
Format	board edge: sharp-edged/coated length x width x thickness 1200 x 625 x 25 mm
Appearance	textured surface fine graining with the StoSilent Decor M or StoSilent Decor MF finishing coat
Colour shade	visible side: white (approx. RAL 9003), rear side: grey (approx. RAL 7039)

StoSilent Board 310 F

Acoustic panel made of expanded glass granulate for suspended ceiling and wall structures

Area of application
interior, for suspended ceiling and wall structures, for the StoSilent Distance Flex acoustic system, for structures with increased requirements on mechanical resistance as well as for bent constructions (radius > 5 m), fixing with screws, bonded board joints

Properties
up to 200 m² possible without expansion joint (max. side length: 20 m), reduction in the reverberation time and noise level, improved ability to concentrate, improvement in speech intelligibility, weighted sound absorption coefficient α_w of up to 0.45 depending on the suspension height, low weight and high stiffness, low moisture-induced and thermal expansion

Notes
use in brine or saltwater swimming pools only on request, not suitable in splash water zones, not suitable for areas subject to mechanical stress, observe installation instructions

Approx. consumption	1.00 m²/m²
Format	board edge: sharp-edged/coated length x width x thickness 2400 x 1200 x 15 mm
Appearance	textured surface fine graining with the StoSilent Decor M or StoSilent Decor MF finishing coat
Colour shade	visible side: white (approx. RAL 9010), rear side: grey (approx. RAL 7039)

StoSilent Board MW 100

Acoustic panel made of coated mineral wool

Area of application
interior, for smooth and curved areas, for the StoSilent Direct acoustic system, fixing by bonding

Properties
weighted sound absorption coefficient α_w of up to 1.00 depending on the board thickness and finishing coat, seamless installation possible on areas of up to 200 m², low weight and high stiffness, low moisture-induced and thermal expansion, easy to apply

Notes
use in brine or saltwater swimming pools only on request, not suitable in splash water zones, not suitable for areas subject to mechanical stress, observe installation instructions

Approx. consumption	2.08 pcs./m²
Format	straight-edged board edge with 45° bevel in the ceiling membrane length x width x thickness 600 x 800 x 36 mm 600 x 800 x 46 mm 600 x 800 x 66 mm
Appearance	granulate surface finishing coat options: without coating, visible joints StoColor Climasan or StoColor Silent, visible joints StoSilent Decor M/MF, visible joints StoSilent Decor M/MF, seamless StoSilent Top Basic, seamless StoSilent Top Finish, seamless
Colour shade	visible side: grey-white (approx. RAL 9002), rear side: yellow-grey

Fixing

StoSilent Install M100

4-part suspension set for StoSilent Modular 100

Area of application
interior, for suspending the StoSilent Modular 100 acoustic ceiling element

Properties
suspension height: max. 50 cm or 250 cm, 4 hangers per set, 3 versions to choose from

Notes
select appropriate fixing (not included) for the substrate/structure, vernier hanger 50 cm long, consisting of: 4 top vernier parts 49 cm (galvanised), 4 bottom vernier parts 17 cm (galvanised), 4 StoSilent Modular 100 Connector connecting hooks (galvanised), 4 hexagon bolts M5 x 8, 4 hexagon nuts M5, 2 locking pins, 2 washers, rod hanger 50 cm long, consisting of: 4 threaded rods M6 50 cm (stainless steel), 8 hexagon nuts M6, 4 StoSilent Modular 100 Connector connecting hooks, 8 washers, cable hanger 50 cm or 250 cm long, consisting of: 4 ceiling fasteners (nickel-plated), 4 screw caps (nickel-plated), 4 cable holders (nickel-plated), 4 wire cables 50 cm or 250 cm long (galvanised), 4 StoSilent Modular 100 Connector connecting hooks, 4 hexagon bolts M5 x 8, 4 washers

Format	suspension height: max. 50 cm or 250 cm
Appearance	vernier hanger: galvanised rod hanger: stainless steel cable hanger: nickel-plated, galvanised

Bonding

StoSilent Fix

Joint filler on a gypsum base for Sto acoustic panel systems

Area of application
interior, for bonding the board joints of the StoSilent Distance acoustic system, for filling the screw holes

Properties
very good adhesive strength, quick-drying, good adhesion

Notes
do not mix with other materials, consumption may vary depending on the system

Approx. consumption	0.50 kg/m² for small-format boards 0.30 kg/m² for large-format boards
Appearance	matt
Colour shade	natural white
Application	 apply with a filler scraper or a cartridge

StoSilent Coll MW

Mineral system adhesive for StoSilent acoustic systems

Area of application
interior, as a bonding mortar for the StoSilent Direct acoustic system, on mineral substrates, on organic substrates with an intermediate coat of StoSilent Prep Quarz, on organic substrates with an intermediate coat of StoPrep Contact

Properties
reaction to fire (class) A1 in accordance with EN 13501-1, good wet adhesive strength, optimum non-sag properties, perfectly matched to the StoSilent Direct acoustic system

Approx. consumption	3.5 - 4.0 kg/m² bonding 1.2 kg/m² per mm layer thickness
Colour shade	white
Application	

StoSilent Coll MW-G

System adhesive on a gypsum base for bonding the StoSilent Direct acoustic system onto substrates made of gypsum boards and gypsum fibreboards

Area of application
interior, for bonding the StoSilent Board MW 100 acoustic panels, substrates: on uncoated gypsum plasterboards, type A in accordance with EN 520, on primed gypsum fibreboards, type GF in accordance with EN 15283-2, on primed, filled gypsum plasterboard surfaces

Properties
reaction to fire (class) A1 in accordance with EN 13501-1, good wet adhesive strength, optimal resistance to flow, perfectly matched to the StoSilent Direct acoustic system

Approx. consumption	3.0 - 4.0 kg/m² bonding 1.2 kg/m² per mm layer thickness
Colour shade	white
Application	

StoColl HT

Adhesive and sealant with very high initial adhesion

Area of application
interior, exterior, for the bonding and sealing of profiles and tracks, for the bonding of materials, in the system StoSilent Distance: Fix the acoustic panels with the adhesive compound.

Properties
single-component, very high initial adhesion, high resistance, very high adhesive strength, very low emissions, non-corrosive, colour-fast, weather-resistant, UV-resistant, very low-emission: Emicode® EC1 Plus, elastic, on an MS polymer base

Notes
storage life: 12 months from the date of manufacture, in unopened packaging, stored in a cold and dry area (+5 °C bis +25 °C), close opened containers tightly and use within a short period of time, consumption depends on the substrate, observe the application guideline for StoSilent Distance, scope of delivery: 12 tubular bags in a box, 5 nozzles with V-shaped detail

Approx. consumption	240 - 260 g/m² Consumption for bonding the acoustic panels in the StoSilent Distance system.
Format	tubular bag: 600 ml
Colour shade	white

Filler and levelling coat

StoSilent Plan

Organic filler for suspended acoustic panel systems from Sto

Area of application
interior, for the StoSilent Distance and StoSilent Distance A2 acoustic systems, for levelling unevenness of max. 1 mm, for filling and closing butt joints and screw holes, on acoustic panel systems from Sto which will subsequently be coated with StoSilent Decor M or StoSilent Decor MF

Properties
high adherence in fresh state, quick-drying, good suitability for sanding

Notes
consumption may vary depending on the system

Approx. consumption	0.25 kg/m² as levelling compound for small-format panels 0.20 kg/m² as levelling compound for large-format panels
Appearance	matt
Colour shade	white (ca. RAL 9003)

StoSilent Filler

Porous joint filler made of expanded glass granulate

Area of application
interior, for filling and smoothing open joints in the StoSilent Direct acoustic system, do not mix with other materials

Properties
good wet adhesive strength, easily workable, porous texture, suitable for sanding

Approx. consumption	0.10 kg/m²
Colour shade	grey white

Sto-Joint Filler WF

Acrylic sealant

Area of application
exterior and interior, for bonding interior profiles, for waterproofing joints with no or very little movement, not suitable for joints with moderate and large movements (e.g. window connection joints, expansion joints)

Properties
plasto-elastic, does not contain plasticisers which may be released from the product

Notes
the product is not resistant to constant water exposure and should be protected by a paint coat in exteriors

Format	310 ml cartridge
Colour shade	white
Application	with a suitable cartridge gun

Edge finish

StoSilent Profile AP

Stop profile

Area of application
stop profile for acoustic panel systems with a board thickness of 15 mm, stop profile for acoustic panel systems with a board thickness of 25 mm

Properties
made of steel sheet, powder-coated

Notes
bonded with e.g. Soudal Fix All Flexi or StoSeal F 505

Approx. consumption	1.00 m/m
Format	27 x 16.5 mm 27 x 27.5 mm length: 250 cm
Colour shade	white (ca. RAL 9016)
Application	bond along the edges of the board

Sto-Stucco Tape

High-quality foam tape with adhesive edge

Area of application
ideal for joint, wall, and ceiling junctions in drywall construction and plastering work, interior, for edge junctions in the StoSilent Direct system, as a decoupling tape for the Sto internal insulation system for walls

Properties
prevents crack formation, with an adhesive edge

Format	length: 30 m width: 30, 50, 70 mm thickness: 3 mm
Colour shade	white

Intermediate coat

StoSilent Top Basic

Organic, porous primer for StoSilent acoustic systems

Area of application
interior, as a priming coat for the StoSilent Direct, StoSilent Distance and StoSilent Modular 400 acoustic systems, can also be used as a finishing coat if applied in 2 layers, in the StoSilent Direct system, seamless coated and with low visual quality requirements, if applied with a 6 mm notched trowel can also be used as a single layer

Properties
porous, fine graining

Notes
porosity is produced by means of a special application technique

Approx. consumption	1.50 - 3.00 kg/m² as intermediate coat
Appearance	matt smooth surface
Colour shade	white (ca. RAL 9001) StoColor
Application	

StoSilent Decor M

Preservative-free, porous, silicate acoustic coating

Area of application
interior, as a finishing coat for the following acoustic systems: StoSilent Direct,StoSilent Distance,StoSilent Modular 400,StoSilent Compact and StoSilent Fleece

Properties
porous, solvent- and plasticiser-free, low-emission, TÜV seal of quality - externally monitored, free from substances that contribute to "black dust" on walls, eco-certified (natureplus®), fine graining, preservative-free

Notes
porosity is produced by means of a special application technique, StoSilent Board 310, StoSilent Board 310 F, StoSilent Fleece (3 application cycles), StoSilent Board 110 (4 application cycles)

Approx. consumption	1.80 kg/m² for 2 application cycles (only StoSilent Compact) 2.70 kg/m² for 3 application cycles (depending on the colour shade, a further application cycle may be necessary) 3.20 kg/m² for 4 application cycles
Appearance	matt textured surface
Colour shade	signal white (approx. RAL 9003) StoColor
Application	

StoSilent Sil AP

Multi-layer silicate acoustic plaster

Area of application
interior, for ceilings and upper wall areas, for the StoSilent Compact Sil acoustic system

Properties
porous decorative coating, system consisting of 3 components: StoSilent Sil AP Comp. A (binding agent), StoSilent Sil AP Comp. B (extender - medium graining), StoSilent Sil AP Comp. C (extender - fine graining), low weight, layer thickness: approx. 25 mm, good sound absorption in the medium- and high-frequency range

Notes
do not use in brine pools, steam baths and on gypsum fibre boards

Approx. consumption	component A	10.50 kg/m² for layers 1, 2 and 3
	component B	34.00 l/m² for layers 1 and 2
	component C	5.00 l/m² for layer 3
Appearance	textured surface with fine graining broad scope for colour design	
Colour shade	natural white StoColor	
Application	manual application in four layers, layer thickness: approx. 25 mm	

Finishing coat

StoSilent Decor M

Preservative-free, porous, silicate acoustic coating

Area of application
interior, as a finishing coat for the following acoustic systems: StoSilent Direct,StoSilent Distance,StoSilent Modular 400,StoSilent Compact and StoSilent Fleece

Properties
porous, solvent- and plasticiser-free, low-emission, TÜV seal of quality - externally monitored, free from substances that contribute to "black dust" on walls, eco-certified (natureplus®), fine graining, preservative-free

Notes
porosity is produced by means of a special application technique, StoSilent Board 310, StoSilent Board 310 F, StoSilent Fleece (3 application cycles), StoSilent Board 110 (4 application cycles)

Approx. consumption	1.80 kg/m² for 2 application cycles (only StoSilent Compact) 2.70 kg/m² for 3 application cycles (depending on the colour shade, a further application cycle may be necessary) 3.20 kg/m² for 4 application cycles
Appearance	matt textured surface
Colour shade	signal white (approx. RAL 9003) StoColor
Application	

StoSilent Decor MF

Organic, porous acoustic coating

Area of application
interior, as a finishing coat for the following acoustic systems: StoSilent Direct,StoSilent Distance,StoSilent Modular 400,StoSilent Compact and StoSilent Fleece, as a tinted finishing coat for StoSilent Decor M

Properties
porous, fine graining

Notes
porosity is produced by means of a special application technique

Approx. consumption	1.80 kg/m² for 2 application cycles of StoSilent Compact 1.40 kg/m² for 2 application cycles on StoSilent Decor M 2.70 kg/m² for 3 application cycles (depending on the colour shade, a further application cycle may be necessary) 3.20 kg/m² for 4 application cycles
Appearance	matt textured surface
Colour shade	white StoColor
Application	

StoSilent Top Basic

Organic, porous primer for StoSilent acoustic systems

Area of application
interior, as a priming coat for the StoSilent Direct, StoSilent Distance and StoSilent Modular 400 acoustic systems, can also be used as a finishing coat if applied in 2 layers, in the StoSilent Direct system, seamless coated and with low visual quality requirements, if applied with a 6 mm notched trowel can also be used as a single layer

Properties
porous, fine graining

Notes
porosity is produced by means of a special application technique

Approx. consumption	1.50 - 3.00 kg/m² as intermediate coat
Appearance	matt smooth surface
Colour shade	white (ca. RAL 9001) StoColor
Application	

StoSilent Top Finish

Organic, porous finishing coat for StoSilent acoustic systems

Area of application
interior, as a finishing coat for the StoSilent Direct, StoSilent Distance and StoSilent Modular 400 acoustic systems

Properties
porous, ultra-fine grain size

Notes
porosity is produced by means of a special application technique

Approx. consumption	3.00 kg/m² as finish
Appearance	matt smooth surface
Colour shade	white (ca. RAL 9016) StoColor
Application	

StoSilent Miral AP

Mineral acoustic spray plaster

Area of application
interior, for ceilings and upper wall areas, for the StoSilent Compact Miral acoustic system

Properties
porous decorative coating, coarse graining, good sound absorption in the medium- and high-frequency range, low weight

Notes
do not use in brine pools, steam baths and on gypsum fibre boards

Approx. consumption	15.0 l/m² at the highest point (15 mm plaster application)/dry matter
Appearance	rough surface
Colour shade	white (ca. RAL 9003), limited tintability with StoTint Aqua
Application	minimum of five layers, thickness: approx. 15 mm

StoColor Climasan

Odour-reducing, dead-matt interior emulsion paint, tested for harmful substances, wet-scrub resistance 2 and hiding power 1 in accordance with EN 13300

Area of application
interior, for walls and ceilings with a sufficient light source, especially suitable for rooms subject to odours and harmful substances

Properties
breaks down harmful organic substance and odours, effective without UV light, very good hiding power, resistant to surface disinfectants, solvent- and plasticiser-free, low-emission, TÜV seal of quality - externally monitored, free from substances that contribute to "black dust" on walls

Notes
aged white AW11/AW15, RAL 9010, NCS S 0500N are tinted variants but cost the same as white

Approx. consumption	0.14 - 0.17 l/m² per paint coat
Appearance	dead-matt in accordance with EN 13300
Colour shade	white, aged white AW11/AW15, STH01 (RAL 9010), STH02 (NCS S 0500N)
Application	

StoColor Silent

Organic, porous, renovation paint

Area of application
interior, for suitable acoustic systems from Sto, open-pored renovation paint for acoustic systems and similar systems that are compatible with a water-based coating, suitable as a coating on StoSilent Decor M

Properties
solvent- and plasticiser-free, low-emission, porous, good hiding power, high whiteness, wide colour shade variety

Notes
porosity is achieved by means of a special application technique

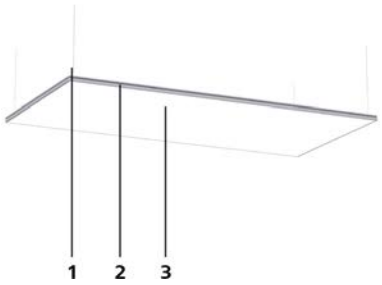
Approx. consumption	0.15 - 0.30 l/m² per paint coat
Appearance	dead-matt in accordance with EN 13300
Colour shade	white
Application	

StoSilent Modular 100

Sound-absorbing ceiling element made of recycled PET fibres on an aluminium frame

System advantages

- high degree of sound absorption
- easy to install
- low weight
- prefabricated system
- very large formats available



1 Hangers
2 Aluminium frame
3 PET fibre board

Overview StoSilent Modular 100

Area of application	- interior - for reducing noise and reverberation - for a bespoke acoustic room treatment
Fixing	- with a separately available suspension system - suspension sets in 3 versions: vernier hangers, threaded rod, cable hanger
Reaction to fire	- class B-s1, d0 in accordance with EN 13501 (PET board)
Sound absorbtion	- high sound absorption (depending on suspension height and format)
Sustainability	- board made of recycled PET fibres
Design options	- rectangular formats, min. 500 x 500 mm, max 3000 x 1250 mm - special shapes on request - fine, unidirectional fibre structure
Colour spectrum	- PET board: white (approx. RAL 9003) - frame: anodised aluminium silver, natural without texture, colour shade approx. RAL 9006
Application	- easy to install thanks to prefabricated parts and modules in accordance with installation instructions - quick, clean, and easy application
Approvals/standards	The relevant European and/or national approvals apply.

Acoustic ceiling elements

StoSilent Modular 100

Sound-absorbing ceiling element made of recycled PET fibres on an aluminium frame

Area of application
interior, for reducing noise and regulating reverberation, as a ceiling element

Properties
high sound absorption (depending on suspension height and format), carrier board made of synthetic fibres, prefabricated with white nonwoven surface, board material awarded the Oeko-Tex® standard 100 (class 1), surrounding frame and carrier profiles made of anodised aluminium, low weight, robust, stable construction, for immediate installation

Notes
use as wall element on request, easy to install via carrier profiles pre-assembled at the factory, and StoSilent Install M100, The StoSilent Install M100 suspension set and the StoSilent Install M100 Connectors need to be ordered separately (delivery without anchors)., do not backlight the elements

Approx. consumption	1.00 pcs.
Format	frame: aluminium profile standard format approx. length x width x 26.5 mm 1150 x 750 mm 1150 x 1150 mm 1250 x 1250 mm 2350 x 1150 mm 3000 x 1250 mm custom variant on request (min. 500 x 500 mm, max. 3000 x 1250 mm)
Appearance	white nonwoven surface with fine, directed fibre texture direction of the texture depends on the element format frame edge visible from the bottom: approx. 1.5 mm
Colour shade	nonwoven: white (approx. RAL 9003), frame: anodised aluminium silver

Fixing

StoSilent Install M100

4-part suspension set for StoSilent Modular 100

Area of application
interior, for suspending the StoSilent Modular 100 acoustic ceiling element

Properties
suspension height: max. 50 cm or 250 cm, 4 hangers per set, 3 versions to choose from

Notes
select appropriate fixing (not included) for the substrate/structure, vernier hanger 50 cm long, consisting of: 4 top vernier parts 49 cm (galvanised), 4 bottom vernier parts 17 cm (galvanised), 4 StoSilent Modular 100 Connector connecting hooks (galvanised), 4 hexagon bolts M5 x 8, 4 hexagon nuts M5, 2 locking pins, 2 washers, rod hanger 50 cm long, consisting of: 4 threaded rods M6 50 cm (stainless steel), 8 hexagon nuts M6, 4 StoSilent Modular 100 Connector connecting hooks, 8 washers, cable hanger 50 cm or 250 cm long, consisting of: 4 ceiling fasteners (nickel-plated), 4 screw caps (nickel-plated), 4 cable holders (nickel-plated), 4 wire cables 50 cm or 250 cm long (galvanised), 4 StoSilent Modular 100 Connector connecting hooks, 4 hexagon bolts M5 x 8, 4 washers

Format	suspension height: max. 50 cm or 250 cm
Appearance	vernier hanger: galvanised rod hanger: stainless steel cable hanger: nickel-plated, galvanised

StoSilent Modular 200

Sound-absorbing ceiling element made of expanded glass granulate with a fine-textured paint coat

System advantages
- high degree of sound absorption
- easy to install
- prefabricated system

1 Hangers
2 Sub-construction made of galvanised steel sheet
3 Carrier board with a layer of PET fibre
4 Finishing coat

Overview StoSilent Modular 200

Area of application	▪ interior ▪ for reducing noise and reverberation ▪ for a bespoke acoustic room treatment
Fixing	▪ suspension system included
Reaction to fire	▪ reaction to fire (class) in accordance with EN 13501: C-s3, d0 (layer of PET fibres) ▪ reaction to fire (class) in accordance with EN 13501: A2-s1, d0 (coated carrier board)
Sound absorbtion	▪ high sound absorption (depending on suspension height and format)
Design options	▪ format: max. 2400 x 1200 mm ▪ special shapes on request ▪ finely textured colour coating on StoSilent Modular 230 ceiling element ▪ with a layer of PET fibre
Colour spectrum	▪ StoSilent Modular 230 - paint coat, full tintability in accordance with the StoColor System
Application	▪ easy to install thanks to prefabricated parts and modules in accordance with installation instructions ▪ quick, clean, and easy application
Approvals/standards	The relevant European and/or national approvals apply.

Acoustic ceiling elements

StoSilent Modular 230

Sound-absorbing ceiling element with fine-textured paint coating

Area of application
interior, for reducing noise and regulating reverberation, as a ceiling element

Properties
high sound absorption (depending on suspension height, format, and surface finish), carrier board made of expanded glass granulate, rear side with a layer of 40-mm-thick PET fibre board, reaction to fire (class) in accordance with EN 13501-1: A2-s1, d0 (carrier board with coating), reaction to fire (class) in accordance with EN 13501-1: C-s3, d0 (layer of PET fibre board), robust, stable construction, for immediate installation, ex works finishing coat with fine-textured paint coat, photocatalytic function with white paint, for the degradation of harmful substances and odours

Notes
easy to install thanks to prefabricated elements applied in accordance with installation instructions, slight deviations in the colour shade are possible between production batches., recommendation: only install elements from a single production batch in one room, all ceiling elements including height-adjustable suspension set consisting of: 4 cable hangers (cable length: 2.5 m) and 4 concrete nail anchors (fischer nail anchors FNA II 6 x 30 M6/5), drill hole depth: min. 40 mm, nominal drill bit diameter: 6 mm, use as wall element on request, not suitable for saltwater baths, over ice baths, or in the exit area of sauna baths

Approx. consumption	1.00 pcs.
Format	board edge: sharp-edged standard formats: approx. length x width x 19 mm 1150 x 1150 mm 2350 x 750 mm 2350 x 1150 mm 1150 mm circular custom variant on request max. 2350 x 1150 mm individual design by creation of recesses on request polygons and free shapes, up to 2350 x 1150 mm
Appearance	hard-wearing board edge with edge veneer visible underside and edges with fine-textured paint coat
Colour shade	white (ca. RAL 9016), order colour shades according to the StoColor System as custom variants StoColor

Acoustic renovation paints

StoColor Silent

Organic, porous, renovation paint

Area of application
interior, for suitable acoustic systems from Sto, open-pored renovation paint for acoustic systems and similar systems that are compatible with a water-based coating, suitable as a coating on StoSilent Decor M

Properties
solvent- and plasticiser-free, low-emission, porous, good hiding power, high whiteness, wide colour shade variety

Notes
porosity is achieved by means of a special application technique

Approx. consumption	0.15 - 0.30 l/m² per paint coat
Appearance	dead-matt in accordance with EN 13300
Colour shade	white StoColor
Application	

StoSilent Profile FB

Stop profile for producing an edge

Area of application
for forming an internal corner, for surface area limitation with the StoSilent Top and StoSilent Decor coating systems

Properties
made of rigid PVC

Notes
bonded with e.g. Soudal Fix All Flexi or StoSeal F 505

Approx. consumption	1.00 m/m
Format	width: 24 mm smoothing ridge: 3 mm Length: 200 cm
Colour shade	white, approx. RAL 9010
Application	bond the profile along the surface area limitation

StoSilent Profile EW

Corner protection angle for forming an external corner

Area of application
for the formation of an external corner in the StoSilent Top and StoSilent Decor coating systems

Properties
made of rigid PVC

Notes
bonding: e.g. with Soudal Fix All Flexi or Sto-Stone Paste, StoSilent Profile EW-Q: edge with square cross-section, StoSilent Profile EW-V: edge with V-shaped cross-section, due to the sharp edges, do not use StoSilent Profile EW-V for external corners on walls where people come into contact with grip and joint areas, use StoSilent Profile EW-Q instead

Approx. consumption	1.00 m/m
Format	24 x 24 mm smoothing ridge: 3 mm Length: 200 cm
Colour shade	white, approx. RAL 9010
Application	bond the profile along the board edge

StoSilent Profile AP

Stop profile

Area of application
stop profile for acoustic panel systems with a board thickness of 15 mm, stop profile for acoustic panel systems with a board thickness of 25 mm

Properties
made of steel sheet, powder-coated

Notes
bonded with e.g. Soudal Fix All Flexi or StoSeal F 505

Approx. consumption	1.00 m/m
Format	27 x 16.5 mm 27 x 27.5 mm length: 250 cm
Colour shade	white (ca. RAL 9016)
Application	bond along the edges of the board

Sto-Ventilation Profile

Stop and ventilation profile for protecting the back ventilation from pests

Area of application
for ventilation openings in the plinth and window lintel area on buildings with ventilated rainscreen cladding facades, for ensuring system ventilation and protection from small animals

Properties
made of aluminium

Notes
bonding: e.g. with Soudal Fix All Flexi or Sto-Stone Paste

Approx. consumption	1.00 m/m
Format	length: 250 cm

StoSilent Profile AP 210

Stop profile for StoSilent Direct, made of aluminium, powder-coated, white (approx.RAL 9003)

Area of application
stop profile for the StoSilent Direct acoustic system

Properties
extruded aluminium in a thickness of 1.5 mm, powder-coated

Notes
bonded with e.g. Soudal Fix All Flexi or StoSeal F 505

Approx. consumption	1.00 m/m
Format	length: 250 cm thickness: 30 mm widths: 40 mm, 50 mm, or 70 mm
Appearance	powder coating
Colour shade	white (ca. RAL 9003)
Application	bond along the edges of the board

StoSeal Band BK

Diffusion-tight adhesive tape made of butyl rubber, with nonwoven fabric on the rear side

Area of application
interior, for creating a diffusion-tight connection in the area of window/balcony door connection joints, and joints between the base coat and integrated building elements such as wooden beams and ceilings, for creating an airtight substrate/airtight connections in the acoustic system StoSilent Direct

Properties
self-adhesive, high adhesive strength, can be coated with plasters and renders, compatibility with acrylic glass and polycarbonate, the adhesive surface is protected by masking paper separated in the centre

Approx. consumption	1.00 m/m
Format	width: 75 mm Length of roller cover: 10 m
Colour shade	front side: anthracite, rear side: white

StoSeal Band BK-2

Diffusion-tight adhesive tape made of butyl rubber, with nonwoven fabric on the rear side

Area of application
exterior and interior, for waterproofing junctions to other building elements when creating a second waterproofing layer underneath window sills

Properties
self-adhesive, high adhesive strength, the side with nonwoven fabric backing can be coated with base coats from STo

Approx. consumption	1.00 m/m
Format	width: 75 mm Length of roller cover: 10 m
Colour shade	front side: anthracite, rear side: white

StoSilent Fleece

Glass-fibre nonwoven as carrier for acoustic coatings

Area of application
interior, as a carrier board for StoSilent Decor acoustic coatings

Properties
resistant to mechanical stress, crack-bridging (shrinking and drying cracks), dimensionally stable, porous, non-swelling, stable when wet, no health hazard if inhaled, swallowed, or in contact with the skin, as fibre diameter ≥ 8 µm

Approx. consumption	1.00 m/m²
Format	width of roller cover: approx. 1 m Length of roller cover: 50 m thickness: approx. 0.6 mm
Appearance	smooth surface slight fibre texture visible
Colour shade	white
Application	full-surface bonding of the nonwoven using StoSilent Fleece Coll, the nonwoven strips must abut

StoSilent Fleece Coll

Organic dispersion adhesive for StoSilent Fleece

Area of application
interior, as a special adhesive for bonding StoSilent Fleece to Sto acoustic elements

Properties
very good adhesive strength

Approx. consumption	0.35 kg/m² as adhesive
Application	

Sto-Stone Paste

Dispersion adhesive with extremely high adhesive strength

Area of application
exterior and interior, for all-purpose applications, e.g. on wood particle boards in the prefabricated housing sector, on galvanised sheet metal, wood, expanded polystyrene, as well as for bonding profiles in the area of acoustics

Properties
paste-form, with very high adhesive strength

Approx. consumption	1.00 kg/m²
Colour shade	natural white
Application	

StoColl HT

Adhesive and sealant with very high initial adhesion

Area of application
interior, exterior, for the bonding and sealing of profiles and tracks, for the bonding of materials, in the system StoSilent Distance: Fix the acoustic panels with the adhesive compound.

Properties
single-component, very high initial adhesion, high resistance, very high adhesive strength, very low emissions, non-corrosive, colour-fast, weather-resistant, UV-resistant, very low-emission: Emicode® EC1 Plus, elastic, on an MS polymer base

Notes
storage life: 12 months from the date of manufacture, in unopened packaging, stored in a cold and dry area (+5 °C bis +25 °C), close opened containers tightly and use within a short period of time, consumption depends on the substrate, observe the application guideline for StoSilent Distance, scope of delivery: 12 tubular bags in a box, 5 nozzles with V-shaped detail

Approx. consumption	240 - 260 g/m² Consumption for bonding the acoustic panels in the StoSilent Distance system.
Format	tubular bag: 600 ml
Colour shade	white

Tools

Kip 358 Concrete and Brick Mesh Tape

Polyethylene-coated, tear-resistant and water-proof mesh tape of very high adhesive strength

Area of application
exterior and interior, for masking rough substrates such as concrete, stone, and masonry, duration of use in interiors: 2 weeks, duration of use in exteriors: 2 weeks

Properties
temperature-resistant up to +65 °C, high adhesive strength, good clinging properties, tear-resistant and water-proof

Format	width: 44 mm length: 50 m
Colour shade	yellow

Sto-EWIS Sanding Board

Aluminium sanding board with wooden handle and Velcro fastener

Properties
complete with K16 abrasive paper

Format	width: 120 mm, length: 240 mm width: 200 mm, length: 420 mm
Colour shade	silver

Sto-EWIS Abrasive Paper

Spare sandpaper for Sto-EWIS Sanding Board with hook-and-loop fastener

Area of application
for sanding insulants

Format	width: 120 mm, length: 240 mm width: 200 mm, length: 420 mm grain size: K 16
Colour shade	red-brown

Sto-Filler Foam Gun Standard

Filler foam gun for applying PU foams

Area of application
for all filler and fixing foams

Properties
made of metal (plastic handle), adjustment screw for dosages

Notes
adapter: adapter for all standard screw-on bottles

Format	length: 350 mm pipe: 200 mm
Colour shade	silver/yellow

Sto-Rounded Finishing Spatula with Soft Grip

Finishing spatula with profile holder made of aluminium and soft handle

Area of application
for smoothing

Properties
particularly stable, aluminium profile holder with a soft handle and rounded edges

Format	width: 480, 570 mm
Colour shade	silver/black

Sto-Spatula Trowel

Spatula trowel made of hardened, rust-free spring band steel

Properties
rust-free, with a spot-welded blade, made of 0.8 mm thick, hardened, mirror-finished, rust-free spring band steel, with a tang made of rust-free round steel, wooden handle

Format	width: 80, 100 mm
Colour shade	silver

Sto-Finishing Trowel Profi

Finishing trowel made of rust-free steel with curved wooden handle

Area of application
for texturing finishing plasters and renders

Properties
with a 0.7 mm thick blade made of hardened rust-free steel and rust-free rivets, light metal support and curved wooden grip, high quality

Format	width: 130 mm length: 280 mm thickness: 0.7 mm
Colour shade	silver

Sto-Finishing Trowel Notched

Finishing trowel made of rust-free steel with curved wooden handle

Area of application
for applying and combing mortar compounds

Properties
with a curved wooden handle, rust-free blade

Format	width: 130 mm length: 280 mm notching: 4 x 6 x 4 mm, 4 x 4 mm, 6 x 6 mm, 8 x 8 mm
Colour shade	silver

Sto-Swiss Smoothing Trowel

Application and smoothing trowel made of stainless steel

Area of application
for application by trowel, for smoothing, for embedding mesh

Properties
with an 0.7 mm thick blade made of hardened, mirror-finished rust-free steel and rust-free screws

Format	width: 130 mm length: 500 mm thickness: 0.7 mm
Colour shade	silver

Sto-Swiss Smoothing Trowel Notched

Notched application and smoothing trowel made of stainless steel

Area of application
for applying and combing mortar compounds

Properties
rust-free blade, with countersunk rust-free screws

Format	width: 120 mm length: 480 mm notching: 4 x 4 mm, 6 x 6 mm, 10 x 10 mm
Colour shade	silver

Sto-Finishing Trowel Plastic

Finishing trowel made of plastic

Area of application
for texturing finishing plasters and renders

Properties
with blade made of grey, impact-resistant rigid PVC and a 190 mm long, bonded-on plastic web underneath a light metal support and a wooden grip, high quality

Notes
article number 08289-001 is not suitable for use in the acoustic area

Format	width: 135 mm length: 280 mm thickness: 1 and 2 mm
Colour shade	grey

Sto-Notched Trowel

Notched trowel made of stainless steel

Area of application
specially for applying adhesive compounds and fillers

Properties
with blade made of 0.7 mm thick, hardened and polished spring band steel, notched on one side, with light metal support and curved wooden grip

Format	width: 130 mm length: 280 mm notching: 10 x 10 x 10 mm, 15 x 15 x 30 mm
Colour shade	silver

Sto-Adjustable Notched Trowel

Adjustable notched trowel made of hardened, rust-free spring band steel with welded-on rust-free clamping strip for attaching a blade

Area of application
for applying and combing mortar compounds

Properties
made of 0.6 mm thick, rust-free special steel, with a welded-on rust-free blade clamping strip, light metal support and round wooden grip, without notched blade

Format	width: 100 mm length: 280 mm
Colour shade	silver

Sto-Notched Blades

Spare notched blades made of hardened spring band steel

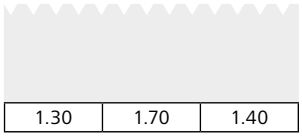
Area of application
for trowels and squeegees

Properties
made of 0.5 mm thick, hardened spring band steel

Format	width: 25 mm length: 280 mm notching: A2, A3, B1, C1, C2, S1, S2, S3, S4, 7, 25, 48, 78, 92, 95
Colour shade	grey

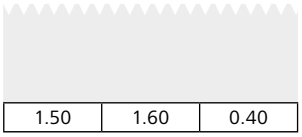
Overview of notch shapes (original sizes)

Notch shape A2



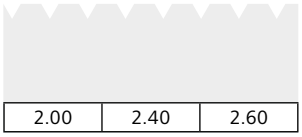
1.30	1.70	1.40

Notch shape A3



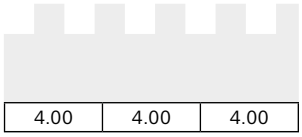
1.50	1.60	0.40

Notch shape B1



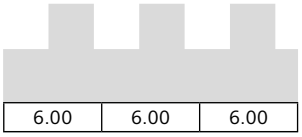
2.00	2.40	2.60

Notch shape C1



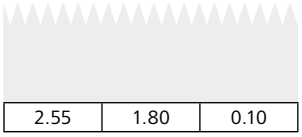
4.00	4.00	4.00

Notch shape C2



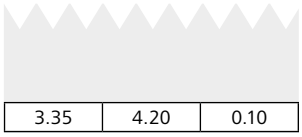
6.00	6.00	6.00

Notch shape S1



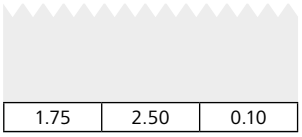
2.55	1.80	0.10

Notch shape S2



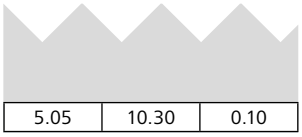
3.35	4.20	0.10

Notch shape S3



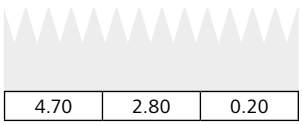
1.75	2.50	0.10

Notch shape S4



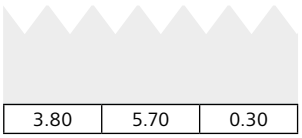
5.05	10.30	0.10

Notch shape 7



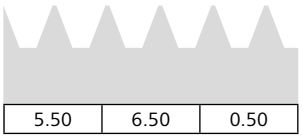
4.70	2.80	0.20

Notch shape 25



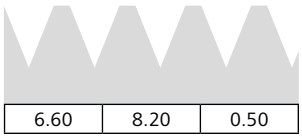
3.80	5.70	0.30

Notch shape 48



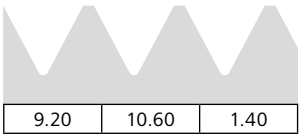
5.50	6.50	0.50

Notch shape 78



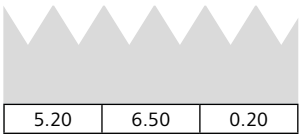
6.60	8.20	0.50

Notch shape 92



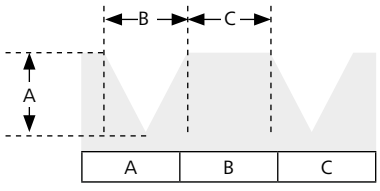
9.20	10.60	1.40

Notch shape 95



5.20	6.50	0.20

What do the numbers and colours mean?



A = notch depth, B = gap width, C = notch width

as two-sided notched blade

as one-sided notched blade

Sto-Bucket Trowel

Bucket trowel made of hardened, rust-free spring band steel with swan´s neck tang

Properties
with a spot-welded blade made of 1.0 mm thick, hardened, mirror-finished rust-free spring band steel, with a tang made of rust-free round steel, straight, wooden grip

Format	rear width: 120 mm, 110 mm length: 180 mm, 160 mm thickness: 1 mm
Colour shade	silver

Sto-External Corner Trowel

Corner trowel made of rust-free spring band steel with a wooden handle

Properties
high quality, made of 0.7 mm thick, hardened, mirror-finished, rust-free spring band steel, with a sharp-edged, curved blade, with a rust-free steel support and wooden grip

Format	width: 65 mm length: 65 mm thickness: 0.7 mm
Colour shade	silver

Sto-Internal Corner Trowel

Corner trowel made of rust-free spring band steel with a wooden handle

Properties
high quality, made of 0.7 mm thick, hardened, mirror-finished, rust-free spring band steel, with a sharp-edged, curved blade, with a rust-free steel support and wooden grip

Format	width: 65 mm length: 65 mm thickness: 0.7 mm
Colour shade	silver/blue

Sto-Rustication Trowel

Special tool with blade made of polished rust-free stainless steel and spot-welded support

Area of application
for rusticated facades

Properties
with a blade made of polished rust-free stainless steel, spot-welded support, with 3 plastic inserts

Format	trapezoidal groove 25 x 15 mm wide, 15 mm deep trapezoidal groove 40 x 15 mm wide, 18 mm deep triangular groove 30 mm wide, 18 mm deep
Colour shade	silver

Sto-Rubber Float Sponge

Rubber float sponge with velour backing

Area of application
for use with the Sto-Velcro Float Handle, suitable for float-finished plasters, e.g. StoLook Lasura

Properties
types: fine or coarse

Format	width: 140 mm length: 280 mm
Colour shade	orange

Sto-Moltopren® Sponge

Foam rubber® sponge with velour backing

Area of application
for use with the Sto-Velcro Float Handle, suitable for StoNivellit and Stolit Milano

Format	width: 140 mm length: 280 mm
Colour shade	white

Sto-Filler Foam Gun Standard

Filler foam gun for applying PU foams

Area of application
for all filler and fixing foams

Properties
made of metal (plastic handle), adjustment screw for dosages

Notes
adapter: adapter for all standard screw-on bottles

Format	length: 350 mm pipe: 200 mm
Colour shade	silver/yellow

Sto-Thermo Anchor II MT

Multi-part installation tool for fitting anchors

Area of application
exterior, for recessed and surface-flush fitting of the Sto-Thermo Anchor II and the Sto-Screw-In Anchor H 60

Properties
with a hexagon drive, with an adjustable shaft and length marking, contents: 1 Sto-Thermo Anchor II with long cutting plate, 1 short cutting plate, 1 hex key, size 3, 1 special bit T25 for Sto-Screw-In Anchor H 60

Notes
a high-performance machine is required to screw in the anchor

Application	using an drill/driver with jaw chuck (the Sto-Thermo Anchor II MT SDS Adjustable Shaft is required for machines with SDS bit holder), torque ≥ 25-30 Nm for correct drawing-in and compacting force

Sto-Anchor Setting Spare Bits

Tool to aid with setting anchors

Area of application
surface-flush installation:
T30 long - suitable for Sto-Thermo Anchor

Properties
robust

Notes
delivery form: 1 item or 3 items / bag

Format	length: T30 long
Colour shade	grey

Sto-Ecotwist MT

Installation tool for fitting Sto-Ecotwist

Area of application
for recessed setting of the Sto-Ecotwist

Properties
hexagonal bar with axial sliding stop ring, robust, with an Allen key

Format	length: 260 mm, 400 mm
Application	Sto-Ecotwist MT 260 mm for insulant thicknesses from 100-260 mm, , Sto-Ecotwist MT 400 mm for insulant thicknesses from 100-400 mm

Sto-Screw-In Anchor K-RACE MT

Installation tool for fitting the Sto-Screw-In Anchor K-RACE 8/60

Area of application
exterior, for efficient installation of the Sto-Screw-In Anchor K-RACE 8/60

Properties
self-decoupling, with a hexagon drive

Format	hexagon drive
Colour shade	red/silver

Sto-Screw-In Anchor S1 K-01 MT

Installation tool for fitting Sto-Screw-In Anchoer S1 K-01 8/60

Area of application
exterior, for installation of the Sto-Schraubdübels S 1 K-01 8/60

Properties
hexagon drive, 30IPRx89 bit for single use, installation tool (MT) and installation tool pro (MTpro): self-decoupling mounting disc for high setting accuracy, installation tool pro (MTpro):screw head centring for optimal bit location

Sto-Thermo Countersinking Tool, aluminium

Tool made of aluminium for fitting the Sto-Thermo Cap

Area of application
to create recesses for a Sto-Thermo Cap in conjunction with Sto-Screw-In/Hammer-In/Drill-In Anchors

Properties
made of aluminium

Format	length: 75 mm ø 64 mm
Colour shade	silver

Sto-Thermo Countersinking Tool, plastic

Tool made of plastic for setting the Sto-Thermo Cap

Area of application
to create recesses for a Sto-Thermo Cap in conjunction with Sto-Screw-In/Hammer-In/Drill-In Anchors

Properties
made of plastic

Format	length: 75 mm ø 63 mm
Colour shade	yellow

Sto-Bead Snips

Bead snips made of plastic

Area of application
for cutting seal beads and mesh angle beads to size

Properties
with a fixed, hardened blade, hardened hacksaw blade with special toothing

Format	length: 200 mm cut: 35 mm
Colour shade	grey/green

Sto-Profile Saw

Handsaw with hardened spring band steel blade

Area of application
for quick and accurate sawing of commonly available boards, e.g. made of wood, plastic, etc.

Properties
blade made of 1 mm hardened band steel, set, ground, and inductively hardened teeth, closed 2-component plastic handle with guide edge for 45° and 90° angle, plastic blade protector with magnetic strip

Format	length: 500 mm thickness: 1 mm
Colour shade	silver/blue/yellow

Sto-Handsaw

Handsaw with hardened teeth

Area of application
for sawing wood

Properties
A1 steel quality, lacquered wooden handle, with hardened teeth

Format	length: 400 mm thickness: 1 mm
Colour shade	silver

Sto-Joint Sealing Tape Dispenser

Dispenser for Sto-Joint Sealing Tape

Area of application
for housing joint sealing tapes, for preventing uncontrolled expansion

Properties
made of plastic, with a scaffolding hook for suspension from the scaffolding

Format	ø 310 mm strip width max: 20 mm
Colour shade	yellow

Sto-Decorative Roller Cover Farfalla

Roller sleeve for designing decorative surfaces

Area of application
for texturing roller-applied plaster and render, for retexturing StoColor Metallic to achieve a homogeneous surface

Format	width: 250 mm ø: 47 mm
Appearance	folded leather pieces
Colour shade	orange

Sto-Relief Roller Cover

Roller cover to produce coloured, textured effects

Area of application
for decorative surface design, for forming colourful, three-dimensional effects

Format	size/ø: 180/60 mm
Appearance	texture: oak
Colour shade	yellow

StoCalce Marmorino Finishing Trowel

Finishing trowel made of special rust-free steel with rounded blade corners

Area of application
for applying and working StoCalce Marmorino products

Properties
made of 0.6 mm thick, rust-free special steel, with rounded blade corners, glass-fibre reinforced plastic support and unlacquered wooden grip, edges polished absolutely burr-free, with specially ground edges

Format	200 x 80/70 mm, 240 x 100/80 mm, 280 x 100/90 mm
Colour shade	silver

Sto-Velcro Float Handle without Covering

Velcro float handle made of plastic

Area of application
for all coverings with velour backing

Properties
durable and resistant hook-and-loop fastening system, time-saving and simple to change the coverings, full-surface hook-and-loop backing

Format	width: 130 mm length: 270 mm
Colour shade	black/red

StoLook Sponge Float

Hard sponge float

Area of application
for applying and smoothing StoCalce Fondo and StoCalce Effetto

Properties
hard sponge float

Format	length: 220 mm width: 140 mm
Colour shade	turquoise

Sto-Texturing Brush

Texturing brush with synthetic fibres in wooden body

Area of application
for decorative surface design, for forming colourful, three-dimensional effects

Format	length: 300 mm bristle length: 90 mm

Sto-Roller Terrazzo Effect

Special hard rubber roller with wooden handle

Area of application
for pressing StoEffect Terrazzo natural sand into render/plaster

Properties
wooden handle

Notes
delivery form: item

Format	width: 250 mm
Colour shade	red

Sto-Special Smoothing Trowel

Rust-free special smoothing trowel

Area of application
for applying a filler and levelling coat of StoPox WB 50 over large areas, for applying a fairing coat on StoCrete TF 100 and 200, for smoothing StoSilent Top Basic and StoSilent Top Finish

Properties
rust-free

Format	length: 800 mm width: 120 mm
Colour shade	silver

Sto-Rounded Finishing Spatula with Soft Grip

Finishing spatula with profile holder made of aluminium and soft handle

Area of application
for smoothing

Properties
particularly stable, aluminium profile holder with a soft handle and rounded edges

Format	width: 480, 570 mm
Colour shade	silver/black

Sto-Notched Trowel

Notched trowel made of stainless steel

Area of application
specially for applying adhesive compounds and fillers

Properties
with blade made of 0.7 mm thick, hardened and polished spring band steel, notched on one side, with light metal support and curved wooden grip

Format	width: 130 mm length: 280 mm notching: 10 x 10 x 10 mm, 15 x 15 x 30 mm
Colour shade	silver

Sto-Spiked Roller Sleeve Duo Frame

Roller cover made of polypropylene

Area of application
for rolling entrapped air out of polyester and epoxy resin coatings

Properties
made of polypropylene, with a metal handle and bar

Format	width: 500 mm spike length: 12 mm
Colour shade	silver/white

Sto-Replacement Spiked Roller Sleeve Duo Frame

Roller cover made of polypropylene

Area of application
for Sto-Spiked Roller Sleeve Duo Bar

Properties
made of polypropylene

Format	width: 500 mm spike length: 12 mm
Colour shade	white

Sto-Spiked Roller Sleeve Standard

Roller cover made of polypropylene

Area of application
for rolling entrapped air out of polyester and epoxy resin coatings

Properties
made of polypropylene, with a metal handle and bar

Format	width: 250 mm spike length: 12 mm
Colour shade	silver/white

Sto-Replacement Spiked Roller Sleeve Standard

Roller cover made of polypropylene

Area of application
for Sto-Spiked Roller Sleeve Standard

Properties
made of polypropylene

Format	width: 250 mm spike length: 12 mm
Colour shade	white

Sto-Loop Pile Roller Cover

High-quality roller cover for de-airing

Area of application
for rolling entrapped air out of coatings

Properties
fits on to standard roller handles

Format	width: 250 mm loop length: 4 mm
Colour shade	blue

Sto-Squeegee for Notched Rubber Blades

Robust squeegee

Properties
made of aluminium

Notes
delivery without notched blade

Format	width: 580 mm handle ø: 28 mm notching: unnotched, 2, 4, 6, 8, 10, 12 mm
Colour shade	silver

Sto-Notched Blades

Spare notched blades made of hardened spring band steel

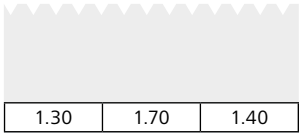
Area of application
for trowels and squeegees

Properties
made of 0.5 mm thick, hardened spring band steel

Format	width: 25 mm length: 280 mm notching: A2, A3, B1, C1, C2, S1, S2, S3, S4, 7, 25, 48, 78, 92, 95
Colour shade	grey

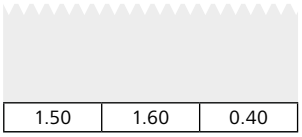
Overview of notch shapes (original sizes)

Notch shape A2



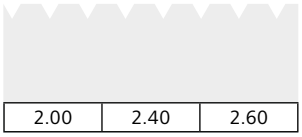
1.30	1.70	1.40

Notch shape A3



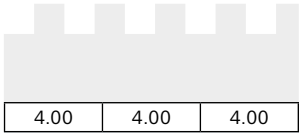
1.50	1.60	0.40

Notch shape B1



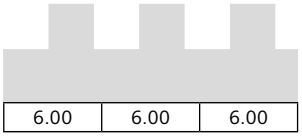
2.00	2.40	2.60

Notch shape C1



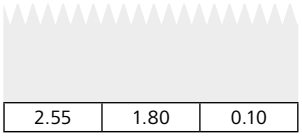
4.00	4.00	4.00

Notch shape C2



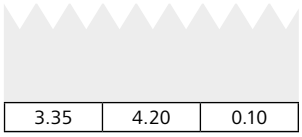
6.00	6.00	6.00

Notch shape S1



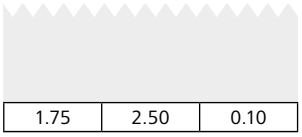
2.55	1.80	0.10

Notch shape S2



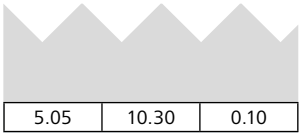
3.35	4.20	0.10

Notch shape S3



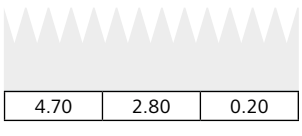
1.75	2.50	0.10

Notch shape S4



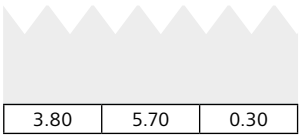
5.05	10.30	0.10

Notch shape 7



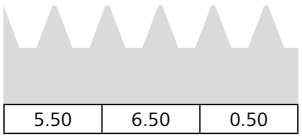
4.70	2.80	0.20

Notch shape 25



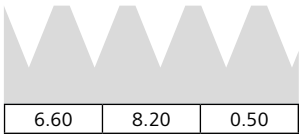
3.80	5.70	0.30

Notch shape 48



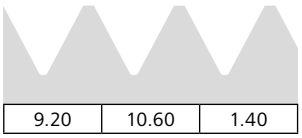
5.50	6.50	0.50

Notch shape 78



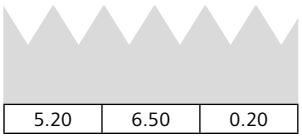
6.60	8.20	0.50

Notch shape 92



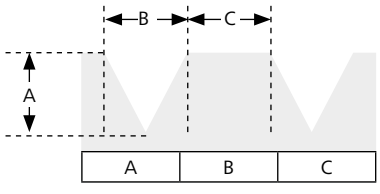
9.20	10.60	1.40

Notch shape 95



5.20	6.50	0.20

What do the numbers and colours mean?



A = notch depth, B = gap width, C = notch width

as two-sided notched blade

as one-sided notched blade

Sto-Rubber Squeegee Profi

Double-lipped rubber squeegee with very stable metal backing

Area of application
for priming and sealing scattered and uneven surfaces

Properties
extra quality, double-lipped, very stable metal backing, with a bracket attachment for the handle, firm foam rubber

Format	width: 550 mm width: 600 mm handle ø: 28 mm
Colour shade	black, brown, red

Sto-Nail Sole

Spiked sole made of solvent-resistant plastic with screwed-in steel spikes

Area of application
for walking over fresh coatings without leaving any marks

Properties
made of solvent-resistant plastic, with screwed-in steel spikes, complete with straps, with additional spare pair of Velcro straps

Format	size: 48 nail length: 30 mm, pointed
Colour shade	black

Sto-Hopper Gun

Application of plasters, as well as paste-form ceiling and wall coverings

Properties
the air supply can be shut off and regulated

Notes
delivery includes: nozzles: 4, 6, 8, 10 mm and 7 l tank

Sto-Terrazzo Effect Gun

Producing creative facades

Properties
the air supply can be shut off and regulated

Notes
delivery includes: fine air control valve, special nozzle, nozzle needle, and 5 l tank

Services

We are here to help you every step of the way, from the planning phase to the implementation of your new building or renovation project. Our technical consultant can also provide advice on the construction site. When it comes to aesthetic considerations, we can help you with aspects such as colour and material concepts, CAD drawings, and BIM objects. You can find our comprehensive service portfolio at www.sto.com

For the love of building. **Building with conscience.**

Services

Expert advice is part and parcel of good service.

Here you can find an overview of our advisory and support services.

Advice from Sto for every project phase:
Comprehensive advice is a key component of our service portfolio. We offer you expert advice quickly during every stage of the project – from the planning phase, with respect to the optimum coordination of different processes, right up to the correct application of our products.

Sto advisors at the construction site:
Our technical consultants come to your construction site directly to provide training on special material characteristics or working with special application methods. For example, they can show you the best way to use products and tools in order to optimise your productivity.

Sto service for your queries:
Should you have any questions, simply contact either the service hotline at +49 77 44 57-1131, your local sales representative or Sto distribution partner. A list of Sto branches and Sto distribution partners near you can be found at www.sto.com

Services

Sample service

Sto helps you to select the right system and surface with material samples that are specific to your project.
infoservice.export@sto.com

Material workshops

We organise "Experiencing is understanding" workshops which focus on the materials for facade design. These workshops explore the process of planning surfaces design-relevant properties, technical application techniques, and design potential. Current dates available at
werkstatt.sto.com/en/werkstatt/cpd/cpd.html

Tender specifications

Tender specifications are available from Sto to provide support during the planning stage.
infoservice.export@sto.com

Details

The Sto technical consultant team develops highly individual details together with architects, planners, and tradesmen upon request:
infoservice.export@sto.com

Our service team provides CAD drawings and BIM objects:
infoservice.export@sto.com

StoDesign

The StoDesign team develops and tests various technical and design versions and defines materials, surfaces, and colour shades for aesthetic questions relating to paint and facade materials – from individual buildings to large-scale urban design.
infoservice.export@sto.com

Because colour and architecture belong together.

Architecture, material, and colour are intrinsically linked, as coloured decoration gives the building an immediate emotional value. It can lend the building visual structure, as well as a certain accent and its own specific character.

StoColor System:
The new StoColor System is based on a colorimetric grid and contains 1000 colour shades which can be used in building design. The system comprises 72 colour areas and a neutral area with numerous black, grey, and white tones. Over 70 historical pigment shades and dyestuffs have also been incorporated into the system. The carefully thought-out arrangement and fine increments of colour shade, brightness, and chroma allow users to combine shades and create colourful designs with confidence.

Precise design tools:
In addition to our colour collection you can find perfectly matched tools for professional colouring. The colour fans are a classic tool, representing all colour shades of the respective collections. The colour sample boxes containing individual cards are ideal for collages or extensive colour schemes.

The colour cards can also be ordered individually from a Sto distribution partner or by calling the telephone number +49 77 44 57-1131.

Colour check with the aid of the sample service:
Genuine samples of surfaces, colours, and textures can be created in DIN A3 format.

StoColor Dryonic®, Stolit® K 2, residential building in the district of Lörrach, Germany

Colour design aids

StoColor System – colour fan (as of March 2022)

Application	• The 1000 colour shades of the new StoColor System in the form of a fan complete with all key data, including light reflectance value, colour shade surcharge class, feasibilities, and TSR value. • All colour shades can be implemented on the facade, depending on the product in question.
	• StoColor System – colour fan

StoColor System – box (as of March 2022)

Application	• The box contains 1000 colour cards as indicative samples in approx. DIN A6 size. • The cards are sorted into yellow, red, blue, and neutral areas to provide a clear overview and additional cards can be ordered on an individual basis.
	• StoColor System – box

StoColor System – edition (as of March 2022)

Application	• Comprising 6 individual fans, this edition serves as a comprehensive tool for professional colour design in the field of architecture. • The 1000 colour shades of the StoColor System in four fans (yellow/red/blue/neutral and nature) • 225 special interior colour shades grouped together in one fan • One fan with 38 wood stain shades, the RAL paint shades, and 14 DB colour shades.
	• StoColor System – edition

StoColor – interior colour shades (as of March 2022)

Application	• 225 colour shades specifically intended for interior design in one fan. • The perfect addition to the StoColor System • Including 5 gloss levels for interiors
	• StoColor – interior colour shades

AC – colour fan

Application	• The 300 colour shades of the StoDesign Architectural Colours colour fan perfectly supplement the tried-and-tested StoColor System. • The majority of the colour shades are suitable for organic and mineral external wall insulation systems.
	• AC – colour fan

Colour design aids

StoColor Metallic fan

Application	• The StoColor Metallic Collection comprises 60 colour shades in 9 areas. StoColor Metallic creates a special look and feel on a variety of surfaces, both inside and outside, with a metallic effect.
	• StoColor Metallic fan

StoColor colour fan for lacquers, glazes, and stains

Application	• 1 fan with 38 wood stain shades, the RAL paint shades, and 14 DB colour shades.
	• StoColor colour fan for lacquers, glazes, and stains

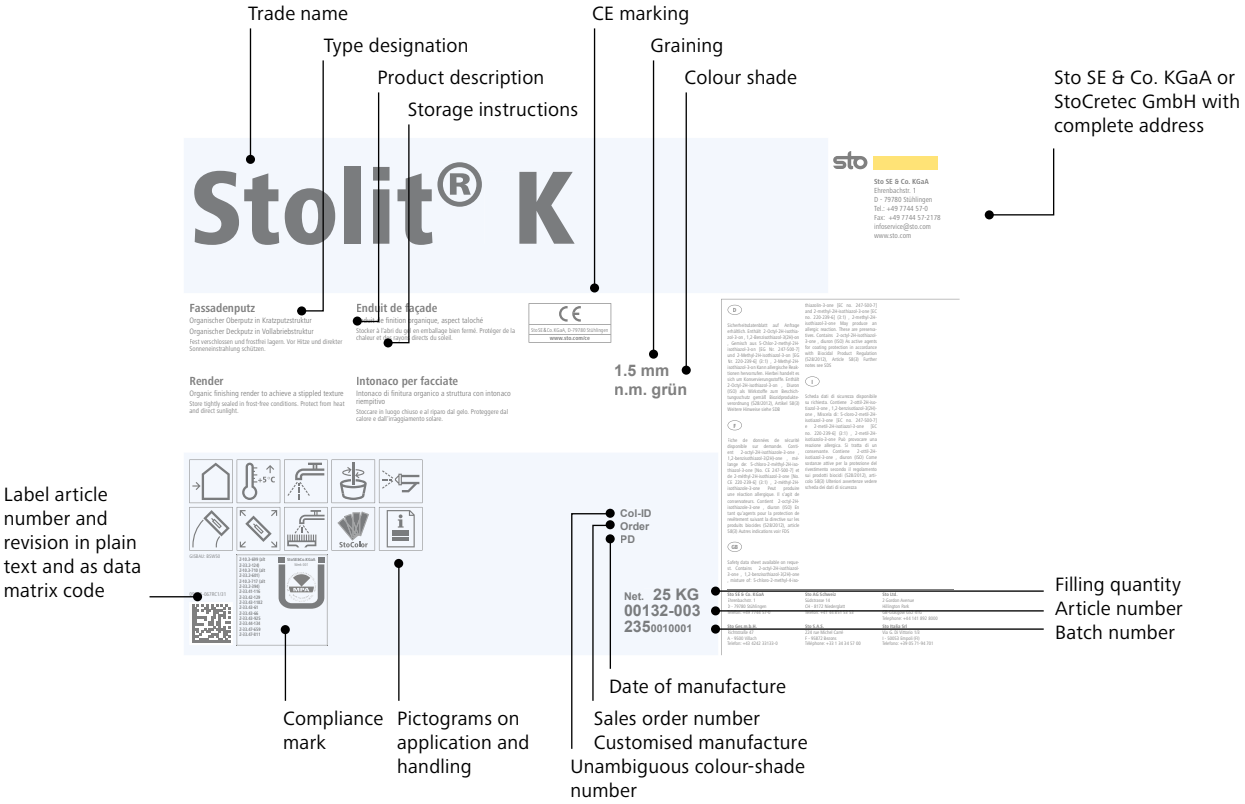
For labels, clarity is the most important attribute.

Labels on packaging are more than mere decorative elements or a means of presenting the product's name. Particularly when there's no data sheet at hand, container labels are the one vital source of information, which they should provide in a concise and readily comprehensible manner.

Each item of information on the label is assigned its own specific position. Font sizes, symbols, and the use of language follow clearly defined rules which apply to all products. Three different background colours provide an initial distinction between exterior (light blue background) and interior use (bright yellow), as well as concrete repair and floor coating (light grey).

Information on the form of use and type of application is provided by a number of self-explanatory pictograms.

The size of the written information reflects its importance. Product names, additional categorisations, such as grain sizes and container volumes, are displayed in large fonts, while the multilingual product type or the article number are displayed in significantly smaller fonts. Of course, the labels also contain all legally required items of information, such as the manufacturer's address or hazard warnings. Sto SE & Co. KGaA has successfully further developed the labels with this clear and also visually appealing system.



Explanation of official logos

“Tested for harmful substances” label

- This label confirms that the relevant products have been tested by an independent test institute such as TÜV and have been classified as safe.

“Preservative-free” label

- In addition to the confirmation that the relevant products have been tested for harmful substances by an independent test institute, this label confirms that they are free of preservatives.

TÜV seal of quality – “low-emission, tested for harmful substances, and production monitored”

- The corresponding testing and inspection has confirmed that the applicable TUV SÜD test standard is met in full.

TÜV seal of quality – “low-emission, nonyl phenol-free, and production monitored”

- The corresponding testing and inspection has confirmed that the applicable TUV SÜD test standard is met in full.

natureplus – seal of quality for environmentally friendly, healthy, and functional building products and furnishings in Europe

- Certified products must contain at least 85% renewable and/or mineral raw materials.

Austrian eco label – a guarantee for environmentally friendly products and services

- This label is only awarded to such products as are proven to be environment-friendly, to possess adequate suitability for use and to offer an adequate standard of quality.

RAL quality seal for wallpapers

- The requirements on wallpaper (wall coverings), particularly with consideration to their health and ecological harmlessness are fulfilled. The requirements are inclusive in the quality mark and are overseen by the goods community of wallpaper.

The “Blue Angel” label for standard and wood-chip wallpaper

- Based on ecological and health aspects, taking into consideration the origins of the raw materials, the percentage of recycled paper, and the materials and substances used. The criteria exceed the statutory requirements.

Textiles that have been tested for harmful substances

- Oeko-Tex® standard 100 is an eco label for textile and clothing products. It regulates the analysis of harmful substances which are suspect in the context of human ecology, stipulating scientifically verified limits for the respective substances concerned.

TÜV NORD “suitable for allergy sufferers”

- The test includes microbiological, chemical and emission examinations.

Compliance mark

- The compliance mark is displayed on building products that comply with the relevant technical regulations, technical approval, general building inspection test certificate, or have special approval.

Explanation of official logos

Wissenschaftlich-technische Arbeitsgemeinschaft für Baudenkmalpflege und Altbauerhaltung (International Association for Science and Technology of Building Maintenance and Monuments Preservation)

- Products bearing this logo have proven effective for refurbishment purposes and meet the requirements of the study group's respective recommendations.

Protection from electromagnetic fields

- Products bearing this label afford protection from immediate dangers and are also suitable for preventive measures.

The GREEN BRANDS seal

- Provides a high recognition factor. Consumers are able to identify brands standing for environment, nature, sustainability and environmentally friendly living and production conditions.

Seal of quality for wood preservative

- Confirmation from the Gütegemeinschaft Holzschutzmittel e.V. (quality assurance association for wood preservatives) with regard to efficacy and environmental compatibility. The quality assurance association committee requires the adherence to the quality label and testing requirements to be monitored as well as the proper production process of wood preservative.

The Swiss environmental label

- Rates the entire range of interior wall paints as well as the "Lacquer, wood, and floor coatings" interior products, thus making it easier to choose environmentally friendly products which are fit for purpose. The product are classified in seven categories (A–G). Categories A to E stand for water-dilutable products, categories F and G for solvent-dilutable products.

Environmental label for France (French VOC regulation)

- All building products as well as decorative and furnishing products to be traded in France must be labelled with an emission classification (A+, A, B, C) on the basis of VOC emission tests in accordance with ISO 16000.

Overview of pictograms

1000 Area of application

									
1010 exterior application only	1020 interior application only	1030 Interior and exterior application	1040 Interior application only – ceilings	1050 Exterior application only – floors	1060 Interior application only – floors	1070 exterior and interior application – floors	1080 Interior application – walls and ceilings	1090 Application only on roof	

2000 Application conditions

			
2010 Lowest application temperature	2020 Highest application temperature	2030 Lowest air humidity	2040 Highest air humidity

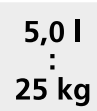
3000 Preparation


3100 Shaking

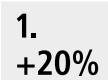
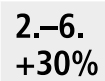
3200 Components

			
3210 component A	3220 component B	3230 Component C	3240 Decant material

3300 Mixing ratio

									
3311 Mixing ratio of product and water by volume	3312 Mixing ratio of product and solvent by volume	3321 Mixing ratio of product and water by weight	3322 Mixing ratio of product and solvent by weight	3324 Mixing ratio for components by weight	3325 Mixing ratio for components A and B by volume	3326 Mixing ratio for components A and C by volume	3327 Mixing ratio of water to product	3328 Mixing ratio of additive to product	

3400 Addition

									
3410 Amount to be added in litres	3420 Amount to be added in %	3430 Maximum amount to be added	3430_010 Addition of max. 20 % for 1st	3430_011 Addition of max. 30 % for 2nd-6th kg	3440 Addition of water	3450 Addition of solvent	3460 Water-dilutable	3470 Solvent-dilutable	3480 Solvent-dilutable. Free from aromatic compounds

3400 Addition


3490 Addition in kg

3500 Stirring, maturing time, transfer to clean container and remix

				
3510 Transfer to clean container and remix	3520 Stir	3530 Minimum stirring time	3540 Waiting time until application (maturing time) at 20 °C/65 % rel. humidity	3550 Mix with mixing shaft

4000 Application

4110 Pot life, max. time for application at 0 °C/65 % rel. humidity

Overview of pictograms

4200 Application methods

									
4210 By paint brush, slurry, brush	4220 By roller	4230 Airless spraying	4240 Wet-mix spraying/ application with screw pump	4250 Dry spraying	4260 Apply with plastering trowel	4270 Apply with notched trowel	4280 Texturing	4281 Scratch brushing	4290 Float-finishing

4200 Application methods

			
4291 Apply with squeegee	4292 Texture with texturing roller	4293 apply a scratch coat	4294 Spray with a hopper gun

4300 Consumption and application cycles

					
4305 Wet substrate	4310 Application cycles	4320 Consumption/ minimum quantity to be applied in g/ m²	4330 Apply in two layers	4360 Consumption/ minimum quantity to be applied in ml/m	4370 Consumption/ minimum quantity to be applied in g/ m²/mm

4400 Overcoating, drying, curing

					
4410 Over-coatable after	4420 Drying time	4430 Curing with film	4440 Curing with liquid	4450 de-air	4460 Curing necessary

4500 Cleaning

	
4510 Can be washed out with water	4520 Can be washed out with solvent

4600 Colour shades

				
4621 StoColor System – complete colour choice	4622 StoColor System – limited colour choice	4640 transparent	4650 Own Collection	4660 RAL

4700 Wet-scrub resistance

			
4710 Class 1	4720 Class 2	4730 Class 3	4740 Class 5

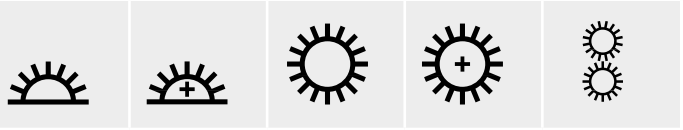
4800 Contrast ratio/ hiding power

		
4810 Class 1	4820 Class 2	4830 Class 3

5000 Wallpapers
5100 Mechanical resistance

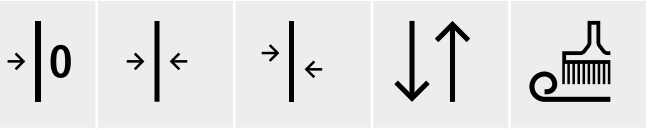
5110 Water-resistant	5120 Washable	5130 Highly washable	5140 Abrasion-resistant	5150 Highly abrasion-resistant	5160 Shock resistant

5200 Colour retention



5210	5220	5230	5240	5250
Adequate colour retention	Satisfactory colour retention	Good colour retention	Very good colour retention	Excellent colour retention

5300 Application properties

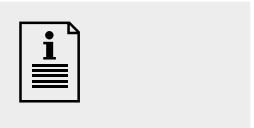


5305	5310	5315_003	5320	5325
Seamless	Straight seam	Offset seam	Alternate top-down bottom-up pasting	Adhesive on wall covering

5300 Application properties

5330	5335	5340	5345	5350	5355	5360	5380	5390
Adhesive on substrate	Pre-pasted wall covering	Removable without leaving remnants	Splittable	Remove in wet condition	Overlap and double cut	Duplexed embossed wall covering	Application with a wallpapering device	Overcoat wall coverings

6000 Observe technical info



6010
Observe technical info

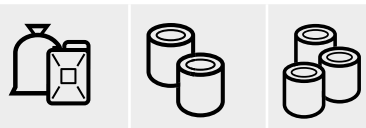
7000 Packaging

7005	7010	7015	7020	7025	7030	7035	7040
Bag	Pail	Tin	Can	Bag	Tube	Cartridge	Aerosol

7000 Packaging

7045	7050	7055	7060	7065	7070	7080	7081	7082	7083
Roll	Silo	Barrel	Pallet	Box	Bundle	Two pails	Pail and bag	Pail and can	Pail and tin

7000 Packaging



7084	7085	7086
Bag and can	Two tins	Three tins

Notes

Headquarters

Sto SE & Co. KGaA
Market Development
Ehrenbachstrasse 1
79780 Stühlingen
Germany

Phone +49 7744 57-1131
Fax +49 7744 57-2428
infoservice.export@sto.com
www.sto.com

StoWerkstatt
International Project
Support Hub
153-157 Goswell Road
Clerkenwell
London EC1 7HD

Phone +44 20 7222 2221
werkstatt@sto.com
werkstatt.sto.com

Your Contact

Art.-no. 012922 rev.-no. 02/02.22 Printed in Germany