Building with conscience.

Certificate

Tested quality ✓

Reaction to fire in accordance with EN 13501-1

StoTherm Mineral facade insulation system

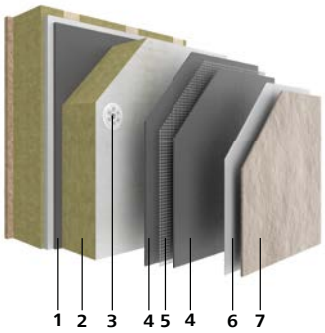
The StoTherm Mineral facade insulation system is a non-combustible external wall insulation system.

Reaction to fire in accordance with EN 13501-1

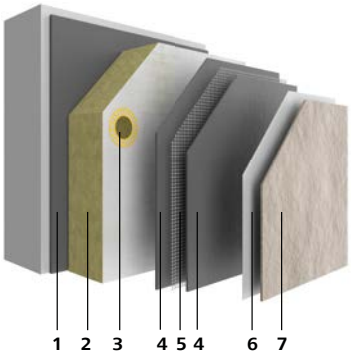
The reaction to fire of building products is tested in the Single Burning Item (SBI) test in accordance with EN 13823.
The building products are subjected to a thermal test from a single burning item over a period of 20 minutes. They are subsequently assigned classifications A to D.

SBI fire test equipment in accordance with EN 13823
Source: mpa.uni-stuttgart.de

StoTherm Mineral facade insulation system



1 — Timber frame/boarding/adhesive
2 — Insulant
3 — Fixing
4 — Base coat
5 — Reinforcement
6 — Adhesion promoter (optional)
7 — Finishing coat/finishing render with optional coating



1 — Solid substrate/adhesive
2 — Insulant
3 — Fixing
4 — Base coat
5 — Reinforcement
6 — Adhesion promoter (optional)
7 — Finishing coat/finishing render with optional coating

Test results

System:
StoTherm Mineral

Reaction to fire:

A2-s1, d0 in accordance with EN 13501-1

Confirmed by:

Classification report no.:	3.1/24-097-1
Test institute:	MFPA Leipzig (NB0800)
Issue date:	9 April 2024
Valid until:	No expiry date

Application range

Layer	Product/system alternatives covered by the classification report (the applicable approvals must be observed)
Carrier board/substrate	▪ The building product may be used on all substrates made of engineered wood conforming to Euroclass D-s2, d0 with a thickness of at least 10 mm and a density of at least 510 kg/m³, on substrates conforming to Euroclasses A1 and A2-s1, d0 with a thickness of at least 12.0 mm and a density of at least 525 kg/m³, and on substrates made of metal with a thickness of at least 0.8 mm, a density of at least 2,025 kg/m³, and a melting point of at least 500 °C. ▪ The building product may be fixed to the substrate either by mechanical means (bonded/anchor-fixed) or by using the bonding mortars listed below. ▪ A V 100 wood particle board (13 mm thickness) was used for the fire test.
bonding mortar	<u>Mineral bonding mortars (coverage ≤ 7.5 kg/m²):</u> Sto-ADH-B Sto-ADH-B QS StoColl Basic StoColl CX StoColl IP StoColl Mineral HP StoLevell Alpha StoLevell Basic StoLevell Combi plus StoLevell Duo StoLevell Duo plus StoLevell Duo plus QS StoLevell FT StoLevell Neo AimS StoLevell Novo StoLevell SW plus StoLevell Uni Stomix Multibond HD
Insulant	Mineral wool boards and mineral wool lamellas with reaction to fire A2-s1, d0 or A1 in accordance with EN 13501-1, bulk density of 73 – 129 kg/m³, thickness ≥ 60 mm
basecoat	<u>Mineral base coats:</u> StoArmat Novo (dry layer thickness min. 5 mm) Sto-Levelling Mortar F 100 (dry layer thickness min. 5 mm) StoLevell Combi plus (dry layer thickness min. 4 mm) StoLevell Reno (dry layer thickness min. 4 mm) StoLevell Duo (dry layer thickness min. 3 mm) StoLevell Duo plus (dry layer thickness min. 3 mm) StoLevell Duo plus QS (dry layer thickness min. 3 mm) StoLevell FT (dry layer thickness min. 3 mm) StoLevell Neo AimS (dry layer thickness min. 5 mm) StoLevell Novo (dry layer thickness min. 5 mm) StoLevell Uni (dry layer thickness min. 3 mm) StoLevell Basic (dry layer thickness min. 3 mm) Stomix Multibond HD (dry layer thickness min. 3 mm) <u>Organic base coats:</u> StoArmat Classic plus F/M/G (coverage 4.5 – 10.5 kg/m², dry layer thickness 2.5 – 5 mm) StoArmat Classic plus QS F/M/G (coverage 4.5 – 10.5 kg/m², dry layer thickness 2.5 – 5 mm) StoArmat Classic S1 (coverage 4.5 – 10.5 kg/m², dry layer thickness 2.5 – 5 mm) StoArmat Classic AimS (coverage 4.5 – 10.5 kg/m², dry layer thickness 2.5 – 5 mm) StoArmat Classic HD + StoAdditiv HD (coverage 4.5 – 10.5 kg/m², dry layer thickness 2.5 – 5 mm)
Reinforcement	Sto-Glass Fibre Mesh (6 x 6) Sto-Glass Fibre Mesh F (4 x 4)
Adhesion promoter (can be used as an option)	Stomix Primer HD (coverage 0.3 kg/m²) StoPrep Miral AimS (coverage 0.35 kg/m²) StoPrep Miral (coverage 0.35 kg/m²) StoPrep Isol Q (coverage 0.35 kg/m²) Sto-Primer (coverage 0.3 kg/m²) Sto-Primer QS (coverage 0.3 kg/m²)

Application range

Layer	Product/system alternatives covered by the classification report (the applicable approvals must be observed)
finish	Mineral finishing renders: StoMiral® K/R/MP (coverage 1.5–11 kg/m², thickness 1–6 mm) StoMiral® Scratch Render (coverage 15.0–25.0 kg/m², thickness 8–10 mm) StoMiral® Nivell F (coverage 3.0–7.0 kg/m², thickness 2–5 mm) Sto-Textured Render K/R (coverage 3.0–6.0 kg/m², thickness 1–4 mm) Silicate finishing renders: StoSil® K/R/MP (coverage 2.2–4.4 kg/m², thickness 1–3 mm) Organic finishing renders: Stolit® AimS (coverage 1.5–4.6 kg/m², thickness 1–3 mm) Stolit® K/R/MP (coverage 1.5–6.5 kg/m², thickness 1–6 mm) Stolit® QS K/R/MP (coverage 1.5–5.0 kg/m², thickness 1–3 mm) StoLotusan® K/MP (coverage 1.5–5.0 kg/m², thickness 1.5–3 mm) StoMarlit (coverage 2.2–4.9 kg/m², thickness 1.5–3 mm) StoNivellit (coverage 1.5–3.5 kg/m², thickness 1–4 mm) StoSilco® K/R/MP (coverage 1.5–5.0 kg/m², thickness 1–3 mm) StoSilco® QS K/R/MP (coverage 1.5–5.0 kg/m², thickness 1–3 mm) StoSilco® blue K/MP (coverage 1.8–5.0 kg/m², thickness 1–3 mm) Sto-Silkolit® K/R/MP (coverage 2.3–4.3 kg/m², thickness 1.5–3.5 mm) Sto-Ispolit® K/R/MP (coverage 2.3–4.3 kg/m², thickness 1.5–3.5 mm) Stolit Effect (coverage 1.5–5.5 kg/m², thickness 1–3 mm) Stolit Milano® (coverage 1.5–3.0 kg/m², thickness 1–2 mm) Stomix Silkotex HD (coverage 2.5–5.0 kg/m², thickness 1.5–3.5 mm)
Coating	Coatings (coverage up to 0.6 kg/m²): StoColor AimS StoColor Crylan StoColor Jumbosil StoColor Jumbosil +2 % StoAdditiv QS StoColor Maxicryl StoColor Maxicryl +2 % StoAdditiv QS StoColor Maxisil StoColor S StoColor Sil StoColor Silco StoColor Silco +2 % Sto-Additiv QS StoColor Silco Elast StoColor Silco Fill StoColor Silco G StoColor Silco Variant/G StoColor Silcocryl StoColor Solical Fill StoColor Solical/G StoColor X-Black StoLotusan StoLotusan G Coatings (coverage up to 0.4 kg/m²): StoColor Dryonic®/G StoColor Fibrasil StoColor Top Coatings (coverage up to 0.2 kg/m²) StoColor Dryonic® M

Application range

The building product must be used with a mesh overlap of at least 100 mm.
The render thickness (base coat + finishing render) must be at least 4 mm (dry layer thickness).

Signiert von:
96F16E7E04B0422...
Francisco Javier Ramos Fernandez
Head of Business Fields Facade and Interiors

Signiert von:
8252F1D90D194F8...
Theresia Holder
Technical Support
Approvals and Testing Procedures

The test was carried out in accordance with the requirements of DIN EN 13501-1. The corresponding technical documentation is available. We certify this with our signature.

This certificate is the product manufacturer's Declaration of Conformity in accordance with DIN EN ISO/IEC 17050-1.

This certificate replaces the version CERT 73102.2023 dated 23 February 2023.

Sto SE & Co. KGaA

CERT 73|06.2024
Stühlingen, 19 June 2024

This is a translation of the original German version. Only the original version is legally binding.