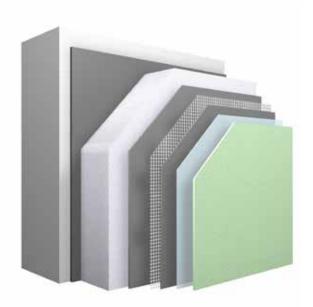


| Facade | External Wall Insulation Systems |





StoTherm Vario The alternative with polystyrene insulation and a mineral base coat

The StoTherm Vario combination system is the ideal choice for those seeking to combine the advantages of a light, organic insulant with a mineral finishing render. The system also impresses with silicate finishing renders. Alongside the facade renders and paints, design possibilities know almost no boundaries thanks to further combination options, e.g. using ceramic tiles, glazed brick slips, natural stones or architectural elements.

StoTherm Vario

The flexible combination system



Maria-Montessori school centre, Leipzig, Germany Ilg. Friebe. Nauber architectural office, Leipzig, Germany Photographer: Günther Fotodesign, Leipzig, Germany

System advantages

- Free choice of finishing renders
- Decorative facade finishes with ceramic and natural stone tiles possible
- High resistance to micoorganisms (algae and fungi), especially with an additional paint build-up (incl. prime coating)
- Clean building site through the use of Sto-Turbofix the adhesive based on PU foam
- Highly weather-resistant
- Highly weather-resistant
- Permeable to water vapour and CO₂



- **1 Bonding** StoLevell Uni or Sto-ADH-B
- **2 Insulation** Sto-Polystyrene Rigid Foam Board
- 3 Fixing *not shown
- 4 Base coat StoLevell Uni or StoLevell Duo plus
- 5 Reinforcing coat Sto-Glass Fibre Mesh
- 6 Intermediate paint coat Sto-Primer
- 7 Top coat StoLotusan[®] K/M

Overview of StoTherm Vario

Area of application	Suitable for passive house standard
Substrate	 Masonry, e.g. brick, calcium silicate masonry units, porous concrete, fair-faced masonry and facing masonry Concrete and concrete slab construction (three-layer concrete slabs) Timber construction (solid, frame and panel construction) Steel construction (post and beam and frame construction) Existing external wall insulation systems (doubling-up of insulation)
Fixing	BondingBonding and dowellingPurely 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
Design options	 Organic and silicone resin renders, render with Lotus-Effect® Technology, as well as mineral and silicate renders in stippled, rilled and free-style textures Resin brick slips and 3D facade elements made of Verolith granulate Natural stone tiles, 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 QuickSet and FastTrack Technology makes it possible to carry out projects during the colder seasons No paint coat necessary if using organic finishing renders Special protection against algae and fungi with a double coat of paint
Approvals	The relevant national approvals apply

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