

# StoTherm Mineral

Economic external wall insulation system featuring a non-combustible insulant and a wide range of finishes

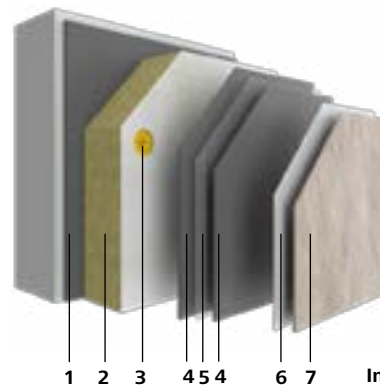
Facade



External wall insulation systems

## System advantages

- Non-combustible
- Free choice of finishing renders
- Decorative facade finishes with ceramic and natural stone tiles possible
- Entirely mineral coating system 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<sub>2</sub>



1 2 3 4 5 4 6 7

### Insulating layer

- 1 — Bonding
- 2 — Insulation
- 3 — Fixing

### Reinforcing layer

- 4 — Base coat
- 5 — Reinforcement

### Material layer

- 6 — Intermediat coat
- 7 — Finishing coat



### Areas 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

### 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 as free-style textured render
- Three-dimensional facade elements made of Verolith granulate
- Natural stone tiles, bricks, ceramic tiles, and glass mosaic

### Colour spectrum

- Limited tintability in accordance with the StoColor System
- Light reflectance value  $\geq 20$

### Application

- Suitable for application by machine
- Stop & Go Technology
- QS and FT Technology make it possible to carry out projects during the colder season
- 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

- The relevant European and/or national approvals apply

Cover photo reference:  
**Residential complex  
 Straßburgerstraße,  
 Freudenstadt, DE**  
 Building owner:  
 Borgmann  
 Immobilien,  
 Freudenstadt,  
 Architect: SCHMELZLE  
 + PARTNER mbB  
 Architekten BDA,  
 Hallwangen, DE  
 Application: Maler  
 Kübler, Freudenstadt,  
 DE  
 Sto-expertise:  
 StoTherm Mineral,  
 StoBrick, StoSilco® MP,  
 StoLotusan® G,  
 StoFentra Duo,  
 StoSilent Distance  
 Photo: Martin Baitinger,  
 Böblingen, DE

### Material layer options



StoSignature



StoEcoshape



StoDeco



StoCleyer B



StoCleyer W

### Finish

- StoSignature (rendered surface)

### Cladding

- StoEcoshapes (prefabricated render elements)

- StoDeco (three-dimensional facade elements), full-surface/partial
- StoCleyer B (resin brick slips)
- StoCleyer W (wood-grain appearance veneer)

### Headquarters | Market development

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