

StoTherm Mineral

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

Facade 

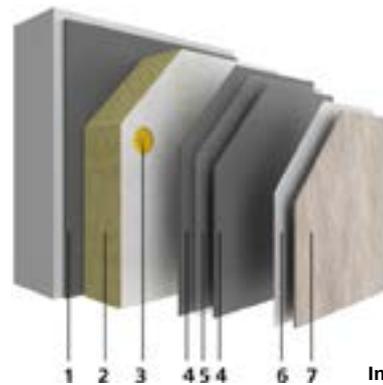
External wall insulation systems

System advantages

- Non-combustible
- Free choice of finishing renders
- Decorative facade finishes with ceramic and natural stone tiles possible
- Entirely mineral coating 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 CO₂



www.blauer-engel.de/uz140



- 1 — Bonding
2 — Insulation
3 — Fixing
- Reinforcing layer**
4 — Base coat
5 — Reinforcement
- Material layer**
6 — Finishing coat
7 — Cladding (optional)



Areas of application

- New and existing buildings up to a height of 100m
- 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 200mm

Reaction to fire

- Non-combustible, class A2-s1, d0 in accordance with EN 13501-1
- Entire mineral coating build up A1

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, 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

- The relevant European and/or national approvals apply

Title image:

**Residential complex
Straßburgerstraße,
Freudenstadt, DE**

Building owner:

Borgmann Immobilien,
Freudenstadt, DE

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,

StoSilent Decor M

Photo: Martin Baitinger,

Böblingen, DE

Material layer options



StoSignature



StoDeco



StoEcoshape



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

Sto SE & Co. KGaA
Ehrenbachstraße 1
79780 Stühlingen
Telephone +49 7744 57-0
Telefax +49 7744 57-2178

Infoservice

Telephone +49 7744 57-1131
Telefax +49 7744 57-2428
info.international@sto.com
www.sto.com

