

StoTherm Vario

Economic external wall insulation system with with a wide range of finishes

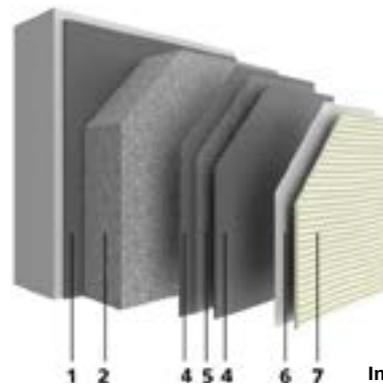
Facade



External wall insulation systems

System advantages

- 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 CO₂



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



Areas 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
- Classe B, C in accordance with EN 13501-1, depending on the 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

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
- 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 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:

Rehabilitation centre, Bolzano, IT

Design: Modus Architects, Brixen, IT
Execution: Amac-Bau, Rodeneck, IT

Sto-expertise: StoTherm Vario, StoSignature, Texture: Linear 30

Photo: © René Rillers, Schlanders, IT

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

Sto SE & Co. KGaA
Ehrenbachstraße 1
79780 Stühlingen

Infoservice

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

