



StoTherm Mineral

The mineral-based
external wall insulation system

Fire protection is becoming more and more crucial in the planning stages of new or existing buildings. Masonry External Wall Insulation Systems, which are used for high-rise or public buildings are recommended to consist of non-combustible components.

A recent addition for Sto New Zealand and the StoTherm family. StoTherm Mineral Insulation is a reliable non-combustible system for unrivalled fire protection, that offers a broad range of design options and is suitable for virtually any type of masonry substrate.

StoTherm Mineral External Wall Insulation System

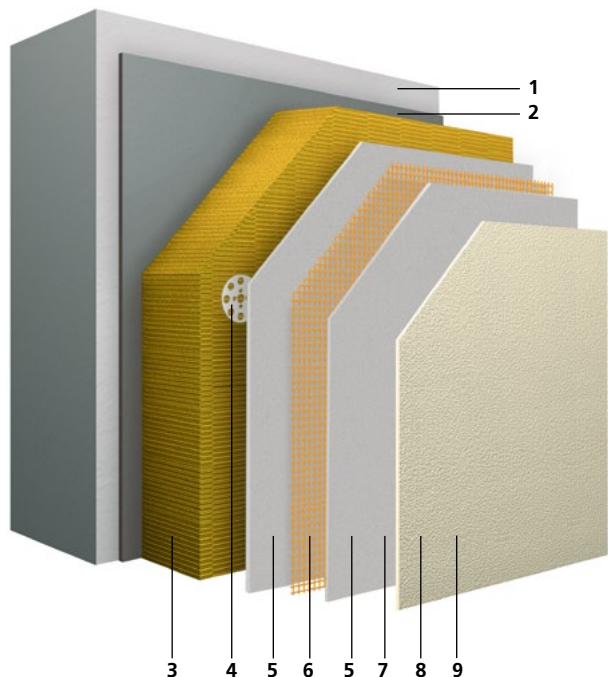
A non-combustible, mineral-wool insulation system for masonry construction

The StoTherm Mineral Insulation System is based upon the traditional benefits of the StoTherm family, with similar R-values, but provides a naturally resourced mineral-wool board with four main attributes; non-combustibility for fire resistance, high insulation values for energy-efficiency, moisture management through high vapour permeability and water tightness and good acoustics properties.

The StoTherm Mineral Board at the core of the system consists of mineral-wool insulation. Uniquely manufactured from molten rocks, similar to lava, that is then spun with binders and agents into fibres as it re-solidifies. A process that creates a non-combustible slab, which is then cut into mineral-wool boards.

Benefits at a glance

- Non-combustible for fire resistance
- Highly effective thermal insulant
- Highly Water tight and Permeable to CO₂ and water vapour
- Good acoustics values
- Crack resistant
- Combats mechanical and seismic stress
- Refurbishment and new buildings up to high-rise level
- StoArmat Render System alternative
- StoWarranty with StoService Assurance
- BRANZ Appraisal 604



Above: Residential house, The Crescent in Wiltshire, Great Britain
Architect: Ken Shuttleworth, Sir Norman Foster

Cover: Schlump ONE, Humburg, Germany
Architect: J. Mayer H. Architects

Perfect interaction

1. Substrate: Solid masonry

Such as concrete blocks, pre-cast, brick & insitu concrete

2. Adhesive: Gluecoat Mortar

3. Insulation (Mineral-wool): StoTherm Mineral Boards

80mm insulation boards made from stone mineral-wool, providing non-combustibility, insulation, acoustic and moisture management.

4. Fixing: StoTherm Masonry Anchors

Drill, install, countersunk and capped with an ST Insulation Cap to avoid thermal bridging.

5. Basecoat: StoLevel Nov / StoLevel Uni

White mineral renders with good adhesion and a calibration grain.

6. Mesh: StoMesh

Easy-to-install, meets the highest requirements for crack, stress and alkalinity resistance.

7. Sealer: StoPlex

Water-based, siloxane-enhanced sealer with water repellent and stability properties.

8. Coloured Finishing Renders: Stolit Range

Organically bound, strong, hard-wearing, impact-resistant, pre-coloured finishing renders.

9. Facade Paint: StoColor

StoColor coating based on IQ Net Technology for functional facades.



**Sto 15 Year Warranty
with StoService Assurance**