

Technical Data Sheet

Sto-Ecoshapes

Prefabricated render elements for customised facade decoration



Characteristics

- Area of application**
- exterior
 - render elements in various formats and looks for facade insulation systems
 - for customised facade decoration

- Properties**
- maximum shock and impact resistance
 - consisting of bonding and pointing mortar as well as the corresponding render elements

- Format**
- min. length 30 mm, max. length 840 mm
 - min. width 30 mm, max. width 420 mm
 - min. thickness 4 mm, max. thickness 8 mm
 - special shapes on request

- Appearance**
- according to customer specifications
 - plain prefabricated render elements as well as elements with up to two mixed colour shades possible
 - smooth, rough, regular, or unregular texture possible
 - up to two differently combined textures (e.g. rolled, combed) possible
 - special textures possible on request
 - aggregates: up to two different granulates (e.g. StoEffect Vetro or silicon carbide)

- Information/notes**
- prefabricated corner elements may be available on request depending on the format

Technical data

Criterion	Standard / test specification	Value/ Unit	Notes
Density	EN ISO 2811	1.6 - 1.8 g/cm ³	
Diffusion-equivalent air layer thickness	EN ISO 7783	0.49 - 0.58 m	V2 medium
Water permeability rate w	EN 1062-1	0.1 kgm ² h	W3 low
Water vapour diffusion-equivalent air layer thickness μ	EN ISO 7783	110	average value

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Dry layer thickness	EN 1062-1	4,850 µm	E5 > 400
Grain size	EN 1062-1	< 1,500 µm	S3 coarse

The characteristic values stated are average values or approximate values. Due to the natural raw materials in our products, the stated values can vary slightly in the same delivery batch; this does not affect the suitability of the product for its intended use.

Substrate

Requirements

The substrate must be firm, dry, clean, load-bearing, and free from sinter layers, efflorescence and release agents.

If using the product on mineral substrates, prime the substrate with Sto-Primer. If the product will be used in timber frame construction, a calculation of building physics is necessary. Alternatively if used in timber frame construction, StoPrep Miral can be used as an intermediate coat. Usage on mineral lightweight base coats is only possible after consultation with Sto SE & Co.KGaA.

Application

Application temperature

Lowest temperature of substrate/air: +5 °C

Consumption

Type of application	Approx. consumption	
project-specific	1.00	m ² /m ²

The consumption per m² depends on the design of the render elements developed by the planner, and must be determined on the basis of the specific project.

Coating build-up

Bonding:
Sto-Bonding and Pointing Mortar

Cladding:
Sto-Ecoshapes

Pointing:
Sto-Bonding and Pointing Mortar

Application

Bond and point prefabricated render elements directly on the system reinforcement.

Start laying Sto-Ecoshapes from the corner. Apply the Sto-Bonding and Pointing Mortar horizontally using the Sto-Smoothing Trowel toothed, 4 x 6 mm/6 x 6 mm.

Only apply as much mortar as you can process before a skin forms. Remove mortar from surfaces that have not been processed. Press and gently slide the render element into the freshly applied mortar, full-surface. Ensure that there are no gaps or cavities. Lay the render elements from top to bottom in accordance with the laying plan. As

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soon as you have bonded the render elements, rework the joint areas with a flat paint brush so they are even.

Cleaning the tools Clean tools with water immediately after use.

Delivery

Colour shade colour shades on request

Possible special options Special colour shades and special formats are possible.

Packaging box

Storage

Storage conditions Store in dry conditions. Do not store at temperatures below +10 °C before application.

Storage life The quality of the product in its original container is guaranteed until the maximum storage life has expired. The storage life date can be deduced from the batch number of the container.
 Batch number explanation:
 Number 1 = the last number of year, numbers 2 + 3 = a calendar week
 i.e.: 9450013223 – storage life until week 45 of the year 2019

Certificates/approvals

ETA-03/0037	StoTherm Vario 5 (EPS and StoLevell Beta) European Technical Approval
ETA-09/0288	StoTherm Classic® 5 MW/MW-L (StoArmat Classic plus) European Technical Approval
ETA-09/0267	StoTherm Resol European Technical Approval

Identification

Safety The product is a manufactured item. The creation of a safety data sheet in accordance with the REACH Regulation (EU) No. 1907/2006, Annex II, is not required.
 Detailed information can be found at www.sto.de under the category Fachhandwerker (tradesmen) / REACH.

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Special notes

The information in this Technical Data Sheet serves to ensure the product's intended use, or its suitability for use, and is based on our findings and experience. Users are nevertheless responsible for establishing the product's suitability and use.

Applications not specifically mentioned in this Technical Data Sheet are permissible only after prior consultation. Where no approval is given, such applications are at the user's own risk. This applies in particular when the product is used in combination with other products.

When a new Technical Data Sheet is published, all previous Technical Data Sheets are no longer valid. The latest version is available on the Internet.

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