

Textile mesh energy textile

- > alkali-resistant
- > high tensile strength
- > dimensional stability



Product description

Alkali-resistant glass fibre fabric for reinforcing (arming) fillers. Component for the production of reinforced in-wall (reinforcement layers) for thermal insulation composite systems and in-wall.

Delivery format

Container	Outer packaging	Pallet
55 M2 / ROL	-	35 ROL

Storage

Can be stored frost-free, cool, and dry on wooden shelves in the unopened original container for 0 days

Processing

Processing

The insulation panels are ground and cleaned.

Mineral wool boards are not sanded over, here a levelling layer is applied after dowelling to compensate for offsets (a pot life of at least 3 days prior to application of the reinforced flush-mounted plaster must be maintained). The in-wall mortar is then applied with a stainless steel notched trowel (10 mm toothing). In the fresh in-wall mortar, the MUREXIN ENERGY TEXTILE is embedded in crease-free membranes which are as continuous as possible and have an overlap of at least 10 cm. The textile mesh must be covered at least 1 mm (in overlap area min. 0.5 mm, max. 3 mm) with in-wall mortar. The embedded textile glass mesh must be applied with in-wall mortar "wet on wet". Before each further coating a pot life at least 7 days must be maintained. Diagonal reinforcement: on the corners of the window and door opening, diagonal reinforcements are to be applied and embedded in the in-wall mortar before area reinforcement. The dimensions of the reinforcing strips are min. 20 x 30 cm.

Edge formation: If the building edges are formed with MUREXIN edge protection with fabric, it must be ensured that the fabric legs are embedded over the entire surface of the in-wall mortar. If the formation of the building edges takes place without a profile, this is done in the course of area reinforcement. To do this the membranes of the textile glass mesh are fed at least 20 cm around

Colour technology

the edge on one side and at least 10 cm overlapping embedded in the in-wall mortar.

Ichsen formation: The Ichsen are formed in the same way as the edge formation without profile with 10 cm overlap.

Protection for mechanically higher load facade areas: before applying the area reinforcement an additional layer of textile glass mesh is embedded in a layer of in-wall mortar. A pot life of at least 24 hours must be observed before applying the additional layer.

In addition to the quoted standards, the latest version of the MUREXIN ENERGY SAVIN SYSTEM processing guidelines must be observed!

Information and general: The air, material and substrate temperature must be at least +5 °C during the processing and setting process. Protect facade from direct sunlight, rain, and strong wind (e.g., with scaffold protection nets). When processing the textile glass fabric, ensure that cavities are not created under the text glass mesh. When deburring the in-wall section, make sure the mesh is never damaged or exposed.

Technical data

Mesh size	approx. 4 x 4mm
Tensile strength	≥ 145 g/m ²
Tensile strength after ageing	≥ 2000 N/50mm
Material requirement	≥ 1000 N/50mm
Surface-related mass	≥ 145 g/m ²

Test certificates

Tested in accordance with (standard, classification ...)

EAD 040016-01-0404

Product and processing instructions

Material information:

- The properties of the material may be significantly altered if not processed within the ideal temperature and/or humidity range.
- Bring the materials to the proper temperature before processing!
- To maintain the product properties, do not add any foreign materials!
- Water dosing quantities or dilution information must be strictly adhered to!
- Check tinted products for colour accuracy before application!
- Colour consistency can only be guaranteed within the same batch.
- The environmental conditions significantly impact colour formation.

Environmental information:

- Do not process at temperatures below + 5°C!
- The ideal temperature range for the material, substrate, and air is + 15°C to + 25°C.
- The ideal humidity range is 40% to 60% relative humidity.
- Increased air humidity and/or lower temperatures may prolong the drying, setting, and hardening time, while lower air humidity and/or higher temperatures will speed it up.
- Ensure adequate ventilation during the drying, reaction, and hardening phase; avoid draughts!
- Protect against direct sunlight, wind, and weather!
- Protect adjacent components!

Tips:

- We recommend using a test surface first or a small area for initial, small-scale testing.
- Please observe the product data sheets of all MUREXIN products used in the process.
- Keep a genuine original container of the respective batch for later repair work.

The information provided reflects average values obtained under laboratory conditions. Due to the use of natural raw materials, the indicated values of individual deliveries may vary slightly without impacting the product suitability.

Safety instructions

This leaflet is based on extensive experience, is intended to convey the best of our knowledge, is not legally binding and does neither constitute a contractual legal relationship nor a subsidiary obligation resulting from the bill of sale. The quality of our materials is guaranteed within the framework of our general terms and conditions. Our products may be used by professionals and/or experienced and accordingly technically skilled persons only. Users are not released from inquiring in case of uncertainties or from rendering professional workmanship. We recommend using a test surface first or a small area for initial, small-scale testing. Naturally, it is not possible to describe or foresee all possible current and future uses and peculiarities. Information that is assumed to be familiar to experts has been omitted.

Please observe the current, technical, national and European standards, guidelines and data sheets regarding materials, substrates and the subsequent construction. Please contact us if you have any reservations or doubt.

This version is rendered invalid if a new version is released. The most recent data sheets, safety data sheets and the terms and conditions are available online at www.murexin.com.

Appendices

Basic Parameters

Parameter	Unit	Performance	Technical Specification
Area weight	g/m ²	147 ± 5%	—
Mesh size warp/weft	mm	(4.0 / 4.5) ± 0.5	EAD 040016-01-0404
Thickness	mm	0.55 ± 0.1	—

General Information

Parameter	Unit	Performance	Technical Specification
Standard width	cm	110 ± 1%	Customer specification
Standard length	m	≥ 50	Factory test standard
Type of finish	—	Alkali-resistant, plasticizer-free, prevents yarn slippage	—

Other finishes and dimensions available upon request.

Tensile Strength and Elongation

Parameter	Unit	Performance	Technical Specification
Tensile strength in delivery condition warp/weft	N/50 mm	≥ 1900 / ≥ 1800	EAD 040016-01- 0404
Average tensile strength in delivery condition warp/weft	N/50 mm	≥ 2100 / ≥ 2000	—
Elongation in delivery condition warp/weft	%	≤ 5 / ≤ 5	—
Tensile strength after 28 days alkaline storage warp/weft	N/50 mm	≥ 1000 / ≥ 1000	—
Residual tensile strength after 28 days alkaline storage warp/weft	%	≥ 50 / ≥ 50	—
Average tensile strength after 28 days alkaline storage warp/weft	N/50 mm	≥ 1400 / ≥ 1300	—
Elongation after 28 days alkaline storage warp/weft	%	≤ 3.5 / ≤ 3.5	—