

Cem-MESH™

140/1

Cem-FIL® AR-systems

Technical data sheet

Cem-MESH™ is made from an engineered AR-glass roving designed to be used with concrete, mortar and all hydraulic binders-based mix-designs.

► **Cem-MESH™** is engineered by **Cem-FIL® Reinforcements**, a **SAINT-GOBAIN VETROTEX** company.

Cem-FIL® fibers have a high Elastic Modulus and Tensile Strength making them ideal as an effective reinforcement for cement/concrete matrices. They will not rot or corrode, and are unaffected by UV radiation, making them suitable for use with minimal cover.

Cem-MESH™ 140/1 has a nominal weight of 140 g/m² and is produced using Cem-FIL® direct roving. The type of weave gives the mesh stability, which is helped further by the addition of a binder. Cem-MESH™ may be used as a positioned reinforcement in sheet or precast products, or draped vertically on the side of a building for incorporation in a render.

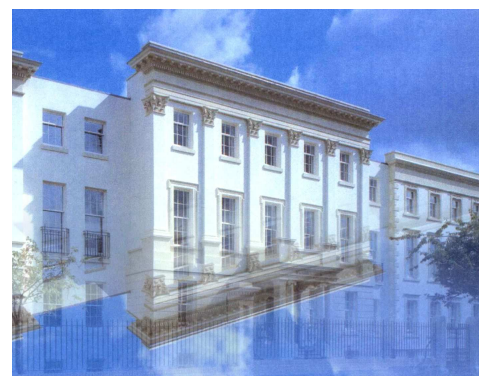
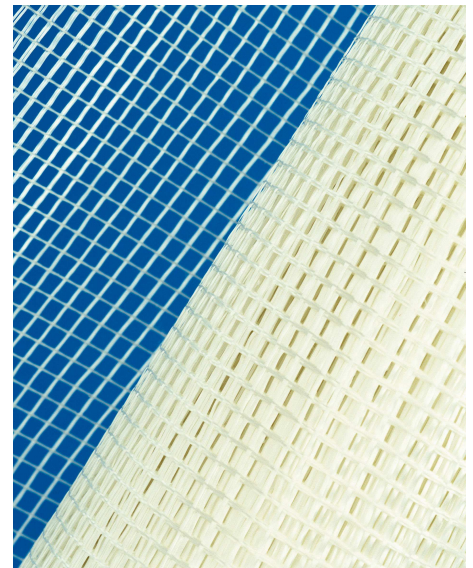
Technical characteristics (nominal values)

Type of glass	Filament Ø (μ)	Nominal weight (g/m ²)	Nominal roll length (m)	Nominal roll width (m)	Humidity (%)	Mesh Density
Cem-FIL® AR	14 (±2)	140	50 (+0.5-0)	1.0 (+0.05, -0)*	< 0.3	10 X 10 strands (warp & weft) per 10 cm

(*) measured from first to last warp

Properties

- Alkali Resistant (AR)-Glass reinforcement as regulated by E.N.
- Safe and easy to handle.
- Proven technology.
- Overall enhancement of durability and physical properties of renders.
- Nominal filament tensile strength: 1,700MPa (dry).
- Elastic modulus: 72,000 MPa.
- Specific gravity: 2.68
- Strain at breaking point: 2.4 %.
- Water uptake: < 0.1 %.



External rendering

Packaging – Labeling

Each 50 m roll of Cem-MESH™ 140/1 is supplied on a 75 mm (3") diameter cardboard tube and protected by a polyethylene bag. Each roll is packed in a cardboard carton of nominal dimensions 105 cm x 20 cm x 20 cm.

25 rolls are loaded vertically on a wooden pallet of dimensions 114 cm x 114 cm (total height 117 cm). Each complete pallet is protected by polyethylene shrink-wrap. To allow double stacking, a plywood sheet may be placed across the top of the lower pallet.

The approximate net weight of one pallet is 175 kg (1,250 m² of Cem-MESH™ 140/1), and it is possible to pack 18 pallets (3,150 kg or 22,500 m²) inside a 20' container.

Each carton has a self-adhesive label indicating the product reference, individual roll net weight and nominal length. Each pallet will have two labels on two perpendicular sides, indicating the product reference, total net weight and gross weight.

Storage

Cem-FIL® products should be stored dry in their original packaging, the best conditions being at a temperature of between 15 and 35° C and at a relative humidity of between 35 and 65%. If the product is stored at low temperature (below 15°C) it is advisable to condition in the workshop for 24 hours before use to prevent condensation.

Quality

Cem-FIL® direct roving is manufactured under a quality Management System approved to ISO 9001. Additionally the actual performance of Cem-FIL® is subject to independent assessment and approval in Germany (Zulassung).

Rozenblat®

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stabilizujemy niestabilny świat