Cem-Mesh ™

140/1

Cem-FIL* AR-systems

Technical data sheet

Cem-FIL fibres are manufactured from a specially formulated glass composition which exhibits a high degree of resistance to acids and alkalis, but was specifically developed to enable these fibres to resist the very high alkalinity produced by the hydration of Ordinary Portland Cement.

Cem-FIL fibres 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/m^2 and is produced using 320 tex and 640 tex Cem-FIL Direct rovings. The type of weave gives the mesh stability, which is helped further by the addition of a binder. Cem-FIL 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 (stucco).

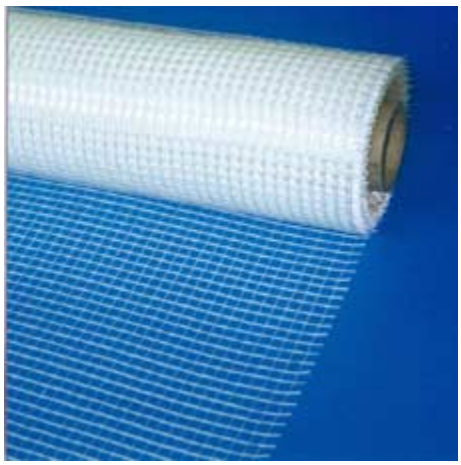
Technical characteristics (nominal values)

Type of glass	Filament Ø (µ)	Nominal weight (g/m^2)	Nominal roll length (m)	Nominal roll width (m)	Loss on Ignition (%)	Humidity (%)	Mesh Density
Cem-FIL (Alkali Resistant)	14 (±2)	**140**	50 (+0.5-0)	1.0 **(+0.05, -0)***	15 (acceptance range 11-19)	< 0.3	10 X 10 strands (warp & weft) per 10 cm

* measured from first to last warp

Properties

- indust. strand tensile strength :1,700 MPa
- elastic modulus :72,000 MPa
- specific gravity : 2.68
- strain at breaking point : 2.4 %
- water uptake : < 0.1 %
- softening temperature : 860 ° C



Renders

SAINT-GOBAIN VETROTEX

Packaging - Labelling

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 m^2 of Cem-Mesh™ 140/1), and it is possible to pack 18 pallets (3,150 kg or 22,500 m^2) 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.

- *Country of origin :*
  All Cem-FIL Direct Rovings are manufactured in Spain by Saint-Gobain Vetrotex España SA. Cem-Mesh™ 140/1 is woven by a sub-contractor on behalf of Saint-Gobain Vetrotex España SA and is sold as a Saint-Gobain Vetrotex product.

* Registered trademark

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