

Cem-MESH™

140/1

Technical data sheet

Cem-MESH™ is made from an engineered AR-glass direct roving designed to be used with concrete and cement-based mortars.

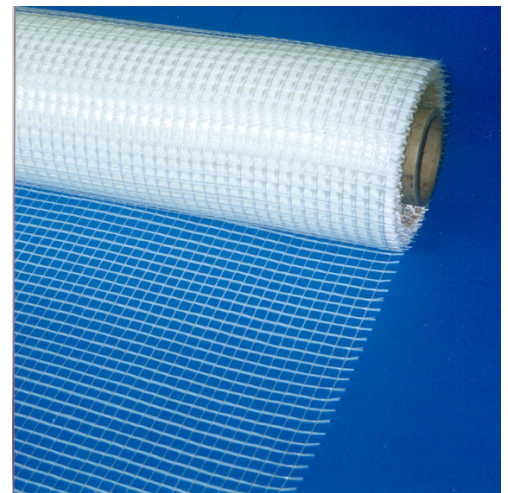
Unlike coated-E-glass products, the glass fibres used to produce Cem-MESH™ are themselves alkali-resistant. Therefore the product is not dependent on the binder to provide alkali-resistance. The binder on Cem-MESH™ is therefore thinner, making the reinforcement more effective and giving greater long-term security.

Cem-MESH™ will not rot or corrode, and is unaffected by UV radiation, making it suitable for use with minimum cover.

The weaving process gives the mesh stability, which is helped further by the addition of a binder.

Cem-MESH™ is most commonly used as a reinforcement for renders, where it is draped vertically on the side of a building and incorporated into the render thickness. It may also be used as a positioned reinforcement in sheet or precast products.

- Alkali Resistant Glass reinforcement, regulated by International Standards
- Safe and easy to handle
- Proven technology
- Overall enhancement of the durability and physical properties of renders
- Nominal strand tensile strength 1,700MPa
- Elastic Modulus: 72 GPa



Identification (ISO)

Example: ARC140/1 50:1
 AR: Alkali Resistant
 C: Continuous filament
 140: Weight g/m²
 1: Cem-FIL® binder reference
 50:1: Length : Width of one roll (m)

Technical considerations (nominal values)

Filament diameter (µm)	Nominal weight (g/m ²)	Nominal roll length (m)	Nominal roll width (m)	Moisture Content (%)	Loss on Ignition (L.O.I.) (%)	Mesh density
14	140	50 (+0.5 - 0)	1 (+0.05 - 0)*	< 0.3	14	9 x 10 strands (warp & weft) per 10cm

* Measured from first to last warp.



Packaging and 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 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 labels on two perpendicular sides, indicating the product reference, total net weight and gross weight.

Storage

Cem-FIL® fibres should be stored dry in their original packaging, the best conditions being at a temperature of 15 to 35° C, and at a relative humidity of 35 to 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 (the product used to make Cem-MESH™) is manufactured under a Quality Management System approved to ISO 9001.