

TECHNICAL DATA SHEET

CicoFiber®195G

Fiber Reinforced Cementitious Mortar Glass Fiber Grid

DESCRIPTION

CicoFiber®195 G is a high-performance, bi-directional glass fiber grid, specifically designed with an alkali-resistant coating for enhanced durability. It is an integral component of the CIC textile-reinforced mortar system, offering reliable reinforcement solutions for structural applications.

USES

When embedded into CicoRepair®RM mortar, CicoFiber®195 G serves as a versatile reinforcement solution for various structural applications, including:

- **Reinforcing Masonry Walls:**
Strengthen walls made of bricks, blocks, or stone.
- **Reinforcing Infill Masonry Walls:**
Provides additional support for infill walls in masonry structures.
- **Connecting Masonry to Other Structures:**
Enhances the connection between masonry walls and reinforced concrete or other walls.
- **Improving Resistance to Earthquake Forces:**
Increases resistance to out-of-plane failures caused by horizontal earthquake actions.
- **Boosts in-plane strength and ductility of masonry walls under seismic loads.**
- **Repairing Cracked Masonry Walls:**
Provides structural repair for damaged walls.
- **Suitable for Interior and Exterior Applications:**
Ensures flexibility for a variety of environments.

ADVANTAGES

- High tensile resistance in both directions
- Economical
- Corrosion resistant
- Alkali resistant coating

PACKAGING

Roll 1,0 m width by 50 m .

SHELF LIFE & STORAGE

24 months storage life if stored in its original unopened containers under a dry and shaded place in a temperature from 5°C to 35°C.

TECHNICAL PROPERTIES

Form	Fiber Glass Grid
Fiber Type	E-Glass
Finished weight (g/m²)	375
Coating (g/m²)	81

Grid Specification	weft	wrap
Aperture size (mm x mm)	16,6	11,8
Yarn count (yarns/10 cm)	5,5	7
Tensile strength (N/5 cm)	3850	3850
Tensile strength KN/m	77	77
Elongation (%)	<5	<5
Coating type	SBR-Latex	
Thickness (mm)	1.2 mm	

APPLICATION INSTRUCTIONS

Surface Preparation

Substrate Inspection

Inspect the masonry wall to identify cracks, voids, loose materials, and other defects. Verify that the substrate is structurally sound and capable of supporting the TRM system. Remove loose debris, dirt, grease, and any previous coatings using a wire brush or mechanical grinder. Ensure the substrate is free of contaminants that could impair adhesion. **Repairs (if necessary)** Fill large cracks, voids, or holes using CicoRepair®RM. Allow repair materials to cure according to the manufacturer's guidelines.

Application

Hardener & Sealer Application

First Layer of Mortar

Using a trowel, apply a 3–5 mm thick layer of CicoRepair®RM onto the prepared masonry surface. Ensure the surface is smooth and uniform, without air pockets or voids.

Placement of CicoFiber®195 G Grid

Cut the CicoFiber®195 G Grid to the required size, ensuring overlaps of at least 100 mm between adjacent sheets.

Gently place the grid onto the wet mortar layer.

Use a spatula or roller to press the grid into the mortar, ensuring it is fully embedded and free of wrinkles or bubbles.

Second Layer of Mortar

Once the first layer has set slightly (but is still workable), apply a second layer of CicoRepair®RM over the grid.

Maintain a thickness of 3–5 mm, ensuring the grid is fully covered. Smooth and level the surface for uniform finish.

Curing

- Protect the applied TRM system from direct sunlight, wind, or rain during the curing period.
- Cure the mortar for at least 7 days to achieve optimal strength. Use wet curing methods (e.g., damp cloths or water misting) if required.
- Avoid any mechanical loading or stress on the surface during curing.

Quality Control

- Mortar Thickness: Verify that both mortar layers meet the specified thickness (3–5 mm each).
- Grid Embedding: Ensure the CicoFiber®195 G Grid is properly embedded without exposed fibers.
- Overlaps: Confirm that grid overlaps are correctly aligned and measure at least 100 mm.
- Surface Finish: Inspect the final surface for smoothness, uniformity, and absence of defects.

PRECAUTIONS

Health And Safety

CicoFiber®195 G is non-hazardous. However, it should not be swallowed or allowed to come into contact with skin or eyes. Suitable protective goggles should be worn. Splashes on the skin should be removed with water. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

TECHNICAL SUPPORT

CIC provides on-site assistance, as well as consulting services on projects when requested. Technical data sheets on other CIC products and guidance on their use are available on request.

Warranty

CIC products are guaranteed against defective materials and manufacture and sold subject to CIC's standard terms and conditions of sale. Whilst CIC endeavors to ensure that any advice, information or recommendation given is correct, the company cannot accept any liability either directly or indirectly arising from the use of its products. User of the product must test the product's suitability for the intended application and purpose, since the company has no control over the application of its products. Information contained in this document is given on the best current knowledge. Our Products are in continuous development and CIC reserves the right to change the product without prior notice.