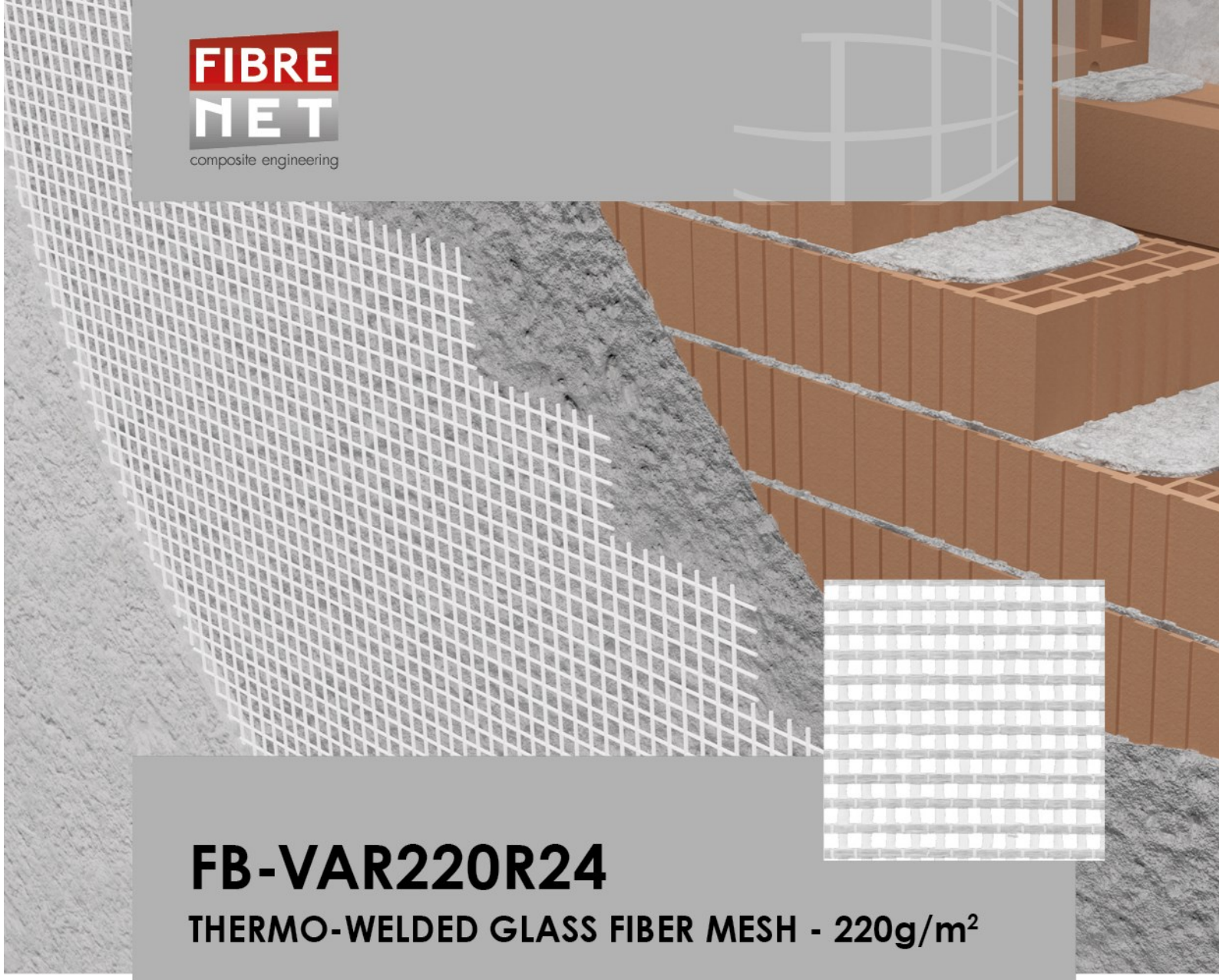

FB-VAR220R24

THERMO-WELDED GLASS FIBER MESH - 220g/m²

FB-VAR220R24 Alkali-resistant glass fiber thermo-welded mesh, 24x24mm mesh, weight 220gr/m², characterized by high mechanical properties, lightness, reversibility, compatibility with cementitious and natural lime-based mortars, and high adaptability to the substrate. These characteristics, combined with the absence of corrosion issues, make it suitable for application as reinforcement on historic masonry, infills, vaults, and masonry and concrete elements.

FB-VAR220R24

TECHNICAL DATA

	Description	Ref.
Commercial Name	FB-VAR220R24	-
Manufacturer	Fibre Net SpA	
Reinforcement type	Glass fiber mesh	CNR-DT 200/2004
Glass fiber total weight (g/m^2)	220	ISO 3374
Weight of glass fiber for each main direction (g/m^2)	110	

Geometrical and mechanical characteristics

Property	UoM	Value	Ref.
Mesh size	mm	24x24mm	CNR DT 203/2006 ISO 10406-1:2015
Mesh section	mm^2/m	40	
0° Tensile breaking load	kN/m	≥ 56	In-house method
90° Tensile breaking load	kN/m	≥ 56	
Tensile breaking strength of the fiber	MPa	≥ 1400	
Tensile elastic modulus of the fiber	GPa	≥ 74	
Fiber elongation at break	%	2	

Chemical and physical characteristics

Property	UoM	Value	Ref.
Fiber kind	-	AR glass (high alkali resistance)	-
Fiber density	g/cm^3	2,65	-
Recyclability	-	recyclable	-

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FB-VAR220R24

CHARACTERISTICS

- bi-directionality
- does not conduct electric currents
- non-magnetic
- radiolucency
- corrosion resistant

ADVANTAGES

- excellent mechanical properties
- durability
- recyclability
- resistance to weathering
- lightness and easy handling
- rapidity and ease of application
- compatibility with masonry substrate and lime- or cement-based mortars
- reversibility
- low thickness

LAYING INSTRUCTIONS

FB-VAR220R24 thermo-welded glass fiber mesh can be used for reinforcing masonry infills subject to the phenomenon of overturning or out-of-plane pressure-bending failure. The mesh can be applied in conjunction with:

-Water-based adhesion promoter IPN01-TIXO
-Structural mortar MATERIA RINFORZA RZ215
-Structural mortar EPOCA CALCE NHL115
-FibreNet Connection Systems.

PACKAGING

FB-VAR220R12 bidirectional mesh is supplied in 1÷1.5 m high rolls.
Supplied in rolls of 50 and 100 m.

HANDLING AND STORAGE CONDITIONS

The mesh should be stored in a covered, dry place, protected from rain and direct sunlight.
The material must be protected before its use from deposits of dust, grease, oil, and any other material capable of reducing the adhesion between the mesh and mortar. Particular attention should be paid during transport.
The user should refer to the most recent Material Safety Data Sheet.

SAFETY INSTRUCTIONS

When handling and applying FB-VAR220R24, the operator must use protective gloves. Refer to the most recent Material Safety Data Sheet for further information and advice on safety regulations and use and storage.

SPECIFICATION ITEM

FB-VAR220R24 Thermo-welded glass fiber mesh by Fibre Net, or equivalent, for application to masonry, wood and steel structures, mesh size 24x24 mm, reinforcement cross-section 40 mm^2/m for each of the two directions, weight of fiber in the mesh 220 g/m^2, tensile breaking strength of the mesh ≥ 56 kN/m for each direction. Made of alkali-resistant glass fibers, characterized by tensile strength ≥ 1,400 MPa, elastic modulus ≥ 74 GPa, elongation at break 2.0 %.

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