

## TecnoFib ST-ELT 0.8/24

### AISI 304 STAINLESS STEEL NET FOR THE STRENGTHENING OF STRUCTURES

**Description** AISI 304 stainless steel welded net.

**Advantages and characteristics** The system can be used for the reinforcement of structures of various type:

- masonry structures;
- Infill;
- repair of arches, vaults and other constructions;
- structural concrete elements

In particular, for interventions in seismic areas, the system with **Tecnofib ST-ELT 0.8/24** incorporated in one of our high-performance mortars of the **REFOR-tec<sup>®</sup>**, **VHDRS<sup>®</sup>**, **SPART<sup>®</sup>** families, allows:

- increase the flexural strength of structural elements;
- increase the shear strength of beams and columns;
- increase the tensile strength of structural elements at the structural nodes.

**Fields of use** The application of the reinforcing mesh must be preceded by a preparation of support by revitalization, sandblasting or cleaning to remove the friable or degraded parts. Before the reinforcement operation, the substrate will be drilled and metal stumps installed by means of the chemical anchoring resin **TECNOPOL** or **TECNO ANCORVINIL 380**. The tip of the stumps must protrude up to half the thickness of reinforcement layer expected. Subsequent application fresh on fresh of the first layer (maximum thickness per layer 2 cm) of high performance mortar (the choice of one of the mortar among **REFOR-tec<sup>®</sup>**, **VHDRS<sup>®</sup>**, **SPART<sup>®</sup>** families should be based on the structural specific needs and on the application methods). Fixing the net **Tecnofib ST-ELT Ø2 mm** mesh **24x24** mm on the head of the steel stumps. Application fresh on fresh, by trowel a second layer of (maximum thickness per layer is 2 cm) high performance mortar.

**Remark** The positioning of the net, the possible overlapping of several layers and the thickness of the mortar will have to refer to the structural dimensioning specification for the structure to be strengthened. Nets of the same type can also be specified and used but with different diameters and mesh, based on indications of our Project Promotion Assistance Office.

**Packaging** Rolls of 50 linear meters, width 100 cm

**Technical characteristics (typical values)**

- Tensile strength: 12000 N/m
- Diameter wire: 0,80 mm
- Mesh: 24x24 mm
- Weight: 0,280 kg/m<sup>2</sup>
- Type of steel: **AISI 304**

**Safety indications** Read carefully the indications on the packaging, or consult the specific Material Safety Datasheet .

The above data are based on our actual and most experienced practical and laboratory knowledge and the results are collected from application of the product in different situations. Tecnochem Italiana does not assume any responsibility regarding inadequate or negative performance as a result of improper use of the product or for defects deriving from factors or elements other than the quality of the product including improper storage. The technical characteristics and performance mentioned in this datasheet are updated periodically. The revision dates and number of revision of the datasheets are listed in the table below. Eventual variations are traceable on our website [www.tecnochem.it](http://www.tecnochem.it) where the most updated datasheets can be retrieved.

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