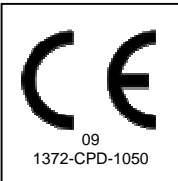


WIRAND[®] FIBRE FF1

DESCRIPTION:

Cold drawn steel wire fibre WIRAND[®] FF1, for structural concrete reinforcement.

NOMINAL DIMENSIONS:



- Diameter D: 1.00 mm
- Length L: 50 mm
- Aspect ratio L/D: 50
- Number of fibres/kg: 3200

MECHANICAL PROPERTIES

R_m (Tensile strength of the wire): 1130 MPa
 ΔL (ultimate strain): < 4%

SHAPE

The double end hooks of WIRAND[®] FF1 fibres ensure perfect anchorage in concrete.

Effect on strength of concrete: 25kg/m³ to obtain 1.5N/mm² at CMOD=0.5mm and 1.0N/mm² at CMOD=3.5mm.

Effect on consistency with 25kg/m³ of fibre: vebe time: 8 s

REFERENCE STANDARDS

- EN 14889-1: 2006 - Fibres for concrete — Part 1: Steel fibres — Definition, specifications and conformity;
- UNI EN 14845-2:2007 - Test method for fibres concrete—Part II: Effect on concrete;
- EN 14651-2005 - Test method for metallic fibre concrete - Measuring the flexural tensile strength (limit of proportionality (LOP), residual)
- UNI 11037: 2003 – Fibre d'acciaio da impiegare nel confezionamento di conglomerato cementizio rinforzato;
- UNI 11039: 2003 – Steel fibre-reinforced concrete—Part 1: definitions, classifications, specifics and conformity; Part II: Test method used to determine the early crack strength and ductility indexes;
- ASTM A820: 2001 - "Standard Specification for Steel Fibers for Fiber-Reinforced Concrete;
- CNR – DT 204/2006 – Istruzioni per la progettazione, l'Esecuzione ed il Controllo di Strutture di Calcestruzzo Fibrorinforzato;
- RILEM, 2001 - "Test and design methods for steel fibre reinforced: uniaxial tension test for steel fibre reinforced concrete", RILEM TC 162-TDF Recommendations, Materials and Structures.

PACKAGING

WIRAND[®] FF1 fibre are delivered in big bags of 600, 750, 950 kg or in carton boxes of 20 kg.

STORAGE

Preserve the pallets from atmospheric corrosion.

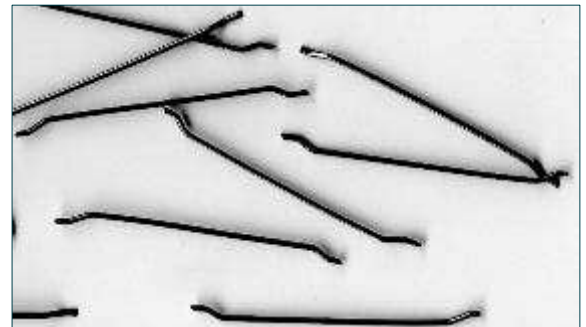


Figure 1

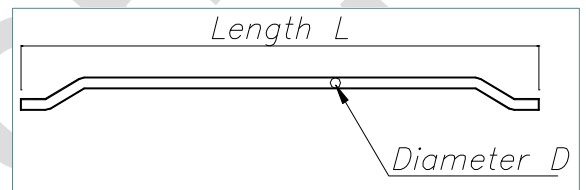


Figure 2



Figure 3



Figure 4

The producer, for his optimisation and improving process of the product's technical characteristics, has the faculty to modify the standards and the characteristics of the product without any pre-advise. All the information are given in base to our experience; in any case no responsibility for an incorrect use could be referred to the producer or one of his distributors.

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