

TECHNICAL DATA SHEET

EXTHA FIREMAT C



Description :	Cable shafts protection designing a cable duct and its support, insulating and resistant high temperature, molded in factory.
Composition :	Mineral composite containing silicates, special cements and additives. Silica and Asbestos free.
Thickness :	45 mm.
Dimensions :	Custom-made according to quantity. Standard: Unit of 1000mm length. <ul style="list-style-type: none">• Internal section 310 x 60 mm.• External section 400 x 150 mm.
Density :	+/-1100 kg/m ³
Mechanical properties:	Tensile strength: 3,33 MPa (4-point bending) Compression strength: 5,22 Mpa
Intrinsic permeability :	3.10 ⁻¹⁴ [m ²]
Durability :	Resistant to water and humidity. Resistant to strong acids and bases
Reaction to fire :	Non-combustible: A1
Resistance to fire :	Tested in accordance with NF EN 1363-1: standardised fire exposure ISO 834 loaded with 20 kg / ml : immaterial collapse. 2 configurations : <i>EXTHA FIREMAT C1 : electrical cables protection</i> Contact temperature between cable/protection lower to 90°C during one hour. <i>EXTHA FIREMAT C2 : optical fibres protection</i> Contact temperature between cable/protection lower to 65°C during one hour.
Implementation :	System of units assembly. Delivery and application of expansion joints or anti vibration system of the same fire resistance Support (protected with the same material).
Specificity :	Washable with high pressure jet (150 -200 bars 25 cm from surface).

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THERMAL PROPERTIES

Density at 25°C	1,1
Conductivity at 25°C	0,52 W/m.K
Specific heat, Cp	0,7 J/g.K
Latent heat, Cv	900 J/g à 124 °C

Conductivity (λ) and diffusivity ($\lambda / \rho C$) as a function of temperature:

	210°C	410°C	610°C	1000°C
Conductivity (W/m.k)	0,38	0,18	0,19	0,20
Diffusivity x 10^7 (m ² /s)	2,6	1,8	2,1	1,6



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