TECHNICAL DATA SHEET

EXTHA FIREMAT P

Description: Asbestos-free non-combustible insulating panels for fire-resistant smoke-extraction and ventilation ducts.

Composition: Mineral composite containing silicates, special cements and additives. Silica and abestos free.

Thickness: Variable and adaptable.
Standard: from 15 to 45mm.

Dimensions: Adaptable depending on the cross-section and thickness required.
Standard: 1,200x600 [mm²] for 30mm, 1,000x600 [mm²] for 45mm.

Density: +/- 1,100 kg/m^3

Mechanical properties:

Maximum tensile strength: 3.33 MPa (4-point bending)
Maximum compression strength: 5.22 MPa

Water absorption: 25% maximum (total immersion)

Intrinsic permeability: 3.10^{-14} [m²]

Chloride permeability - Diffusion coefficient: *c.a.* 10^{-10} m²/s

Expansion (maximum at 60 days):

- Total immersion in water: + 300 µm/m
- Immersion in H_2SO_4 (pH=3): < 500 µm/m
- Immersion in NaOH (pH=10): + 200 µm/m

Durability: Resistant to water and humidity. Resistant to strong acids and bases.

Reaction to fire: Non-combustible – A1.
Classification according to the law of 21 November 2002 "mineral composition containing no more than 1% organic material (in weight or volume)".

Resistance to fire: 120 minutes of standardised (ISO 834) fire exposure for 30mm version.

Tested in accordance with NF EN 1363-1 EI 120 to 180 according to NF EN 1366-1

TECHNICAL DATA SHEET
EXTHA FIREMAT P

THERMAL PROPERTIES

Density at 25°	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 at 124°C

Conductivity (λ) and diffusivity (λ /ρC) as a function of temperature:

	210°C	410°C	610°C	1,000°C
Conductivity (W/m.K)	0.38	0.18	0.19	0.20
Diffusivity x 10^{7}(m²/s)	2.6	1.8	2.1	1.6

Marketing address:
Route de Laval, 53 210 SOULGE SUR OUETTE, France
Tel: + 33 (0) 243 985985 / Fax: + 33 (0) 243 989948
www.extha.fr - extha@extha.fr