Promat

PROMINA® 60

240 minutes fire integrity enclosure system for utility pipe

Technical manual

etex inspiring ways of living

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PROMINA® 60

Calcium silicate fire resistant board

Product description

PROMINA® 60 is a non combustible matrix engineered mineral board reinforced with selected fibres and fillers. It does not contain formaldehyde or any asbestos. The product is dimensionally stable and resistant to the effects of moisture. Its performance characteristics are not degraded by moisture. PROMINA®60 is suitable for internal use in high humidity conditions and external semi-exposed use. For fully exposed conditions, consult Promat Technical Department.

Manufacturing Certification

PROMINA® 60 is manufactured under a quality management system certified in accordance with ISO 9001:2015. The manufacturing site is also certified to meet the environmental standards of ISO 14001:2015 and the occupational health & safety requirements of ISO 45001:2018.

Fire Resistant Applications

→ Internal drywalls
→ Internal lining to external walls
→ Suspended and self-supporting hanger free ceilings
→ Cladding to steel sheet metal ducts
→ Enclosures to Pipes & services
→ Smoke screens

Material properties	
General description	Calcium Silicate board fire resistant board
Surface condition & appearance	Light beige colour Front face: smooth Back face: sanded
Nominal dry density (average)	Approx. 1000kg/m³
Moisture Content	Approx. 6.0% The moisture content varies and will reach an equilibrium over time with the atmospheric relative humidity of the environment
Alkalinity	Approx. pH 12
Thickness tolerance	Compliant with thickness tolerance of CE requirements (9mm thick standard sheets, +/-0.5mm)
Dimension tolerance	±5mm (standard board dimensions)

Static Values			
Modulus of Elasticity E	Flexural Strength F	Tensile strength T	Compressive strength ⊥
Longitudinal: 4.1kN/mm² Transverse: 4.1kN/mm²	Longitudinal: 10.0N/mm² Transverse: 7.0N/mm²	Longitudinal: 4.1N/mm² Transverse: 2.1N/mm²	7.76N/mm²

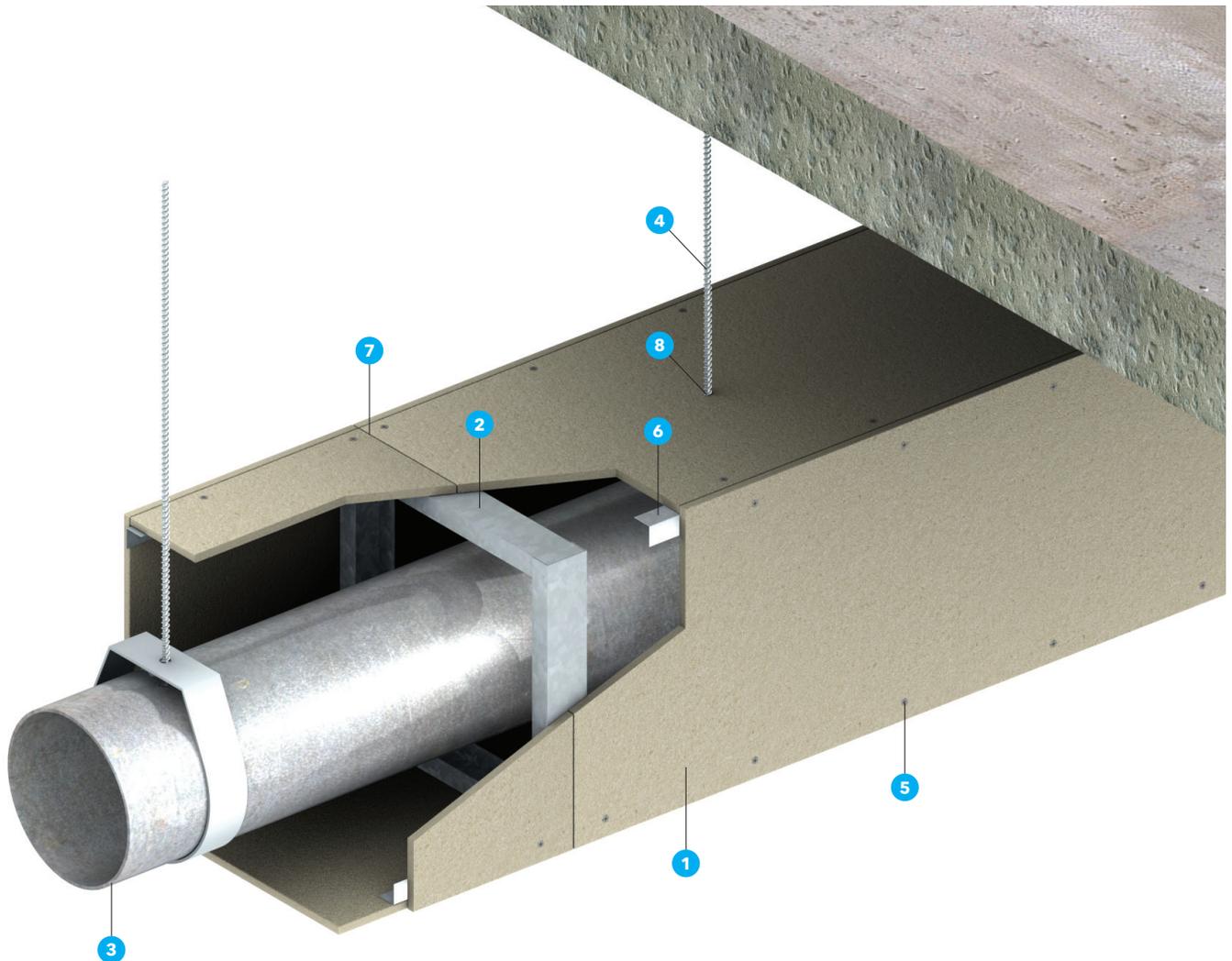| Reaction to Fire & Thermal Properties		
Combustibility	Surface burning	Thermal conductivity
A1 Classification: EN 13501-1 Non-combustible: BS 476: Part 4	Class 0: BS 476: Part 6 & 7	0.136W/m°K

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Standard thickness	Standard dimension	Number of boards per pallet	Surface area per pallet	Weight of standard sheet	Weight per pallet
9mm	2440mm x 1220mm	61	181.5m²	Approx. 30kg	Approx. 1970kg
12mm	2440mm x 1220mm	46	136.9 m²	Approx. 40kg	Approx. 1981kg
15mm	2440mm x 1220mm	36	107.2 m²	Approx. 50kg	Approx. 1941kg
20mm	2440mm x 1220mm	27	80.4 m²	Approx. 66kg	Approx. 1941kg
25mm	2440mm x 1220mm	22	65.4 m²	Approx. 83kg	Approx. 1972kg

All physical and mechanical values are averages based on standard production and tested according to internal procedures. The typical values are given for guidance. The figures can change dependent on the test methods used. If a particular value is of prime importance for a specification, please consult Promat Technical Department.

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PROMINA® 60 240 minutes fire integrity enclosure system for utility pipe
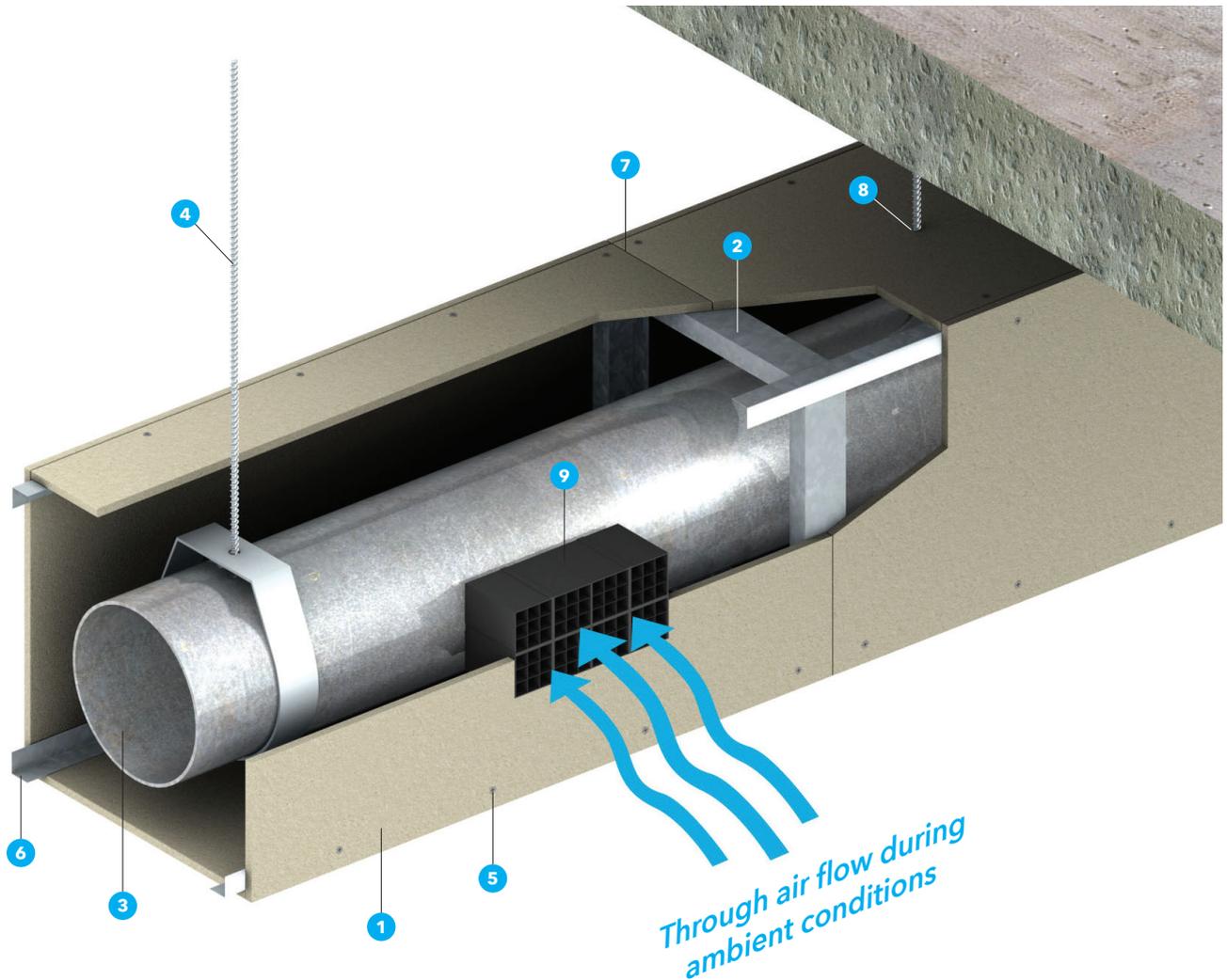
Up to 240/240/60 fire resistance in accordance with the requirements of BS 476: Part 20: 1987 and EN 13501-1: 2007

1. One layer of PROMINA® 60 9mm thick.

2. Steel channel collar coincides with butt-joints at 1200mm centres:

    I)   U 50 x 25 x 0.5mm enclosure witdth up to 100mm
    II) U 50 x 50 x 0.6mm enclosure width above 100mm

3. Utility steel pipe.

4. M12 steel hanger rod.

5. M4 self-tapping screws at nominal 200mm centres.

6. Steel corner angles:

    I)   L 30 x 30 x 0.5mm enclosure witdth up to 100mm
    II) L 50 x 50 x 0.6mm enclosure width above 100mm

7. Any undulating gaps between the interfacing board and masonry substrate shall be sealed with PROMASEAL®-A Acrylic Sealant.

8. Penetration gap seal with PROMASEAL®-A Acrylic Sealant.

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PROMINA® 60 240 minutes fire integrity enclosure system for utility pipe with fire stopping ventilation grille

Up to 240/240/60 fire resistance in accordance with the requirements of BS 476: Part 20: 1987 and EN 13501-1: 2007

Through air flow during ambient conditions

1. One layer of PROMINA® 60 9mm thick.

2. Steel channel collar coincides with butt-joints at 1200mm centres:
   I) U 50 x 25 x 0.5mm enclosure witdth up to 100mm
   II) U 50 x 50 x 0.6mm enclosure width above 100mm

3. Utility steel pipe.

4. M12 steel hanger rod.

5. M4 self-tapping screws at nominal 200mm centres.

6. Steel corner angles:

   I) L 30 x 30 x 0.5mm enclosure witdth up to 100mm
   II) L 50 x 50 x 0.6mm enclosure width above 100mm

7. Any undulating gaps between the interfacing board and masonry substrate shall be sealed with PROMASEAL®-A Acrylic Sealant.

8. Penetration gap seal with PROMASEAL®-A Acrylic Sealant.

9. PROMASTOP® IM Grille.

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→ The technical data provided in this publication is based on mean values prevalent at time of publication and is thus subject to fluctuation. It should not be regarded as a guarantee to system performance.

→ All data contained herein conforms to and frequently surpasses generally accepted fire protection standards recognised by most professional fire science practitioners and regulatory authorities worldwide. The same general principle is equally applicable to all Promat products and systems. Promat has access to a considerable body of test authentication data and this can be provided on a complimentary basis upon request. It should be noted however that this publication replaces all previous editions in its entirety.

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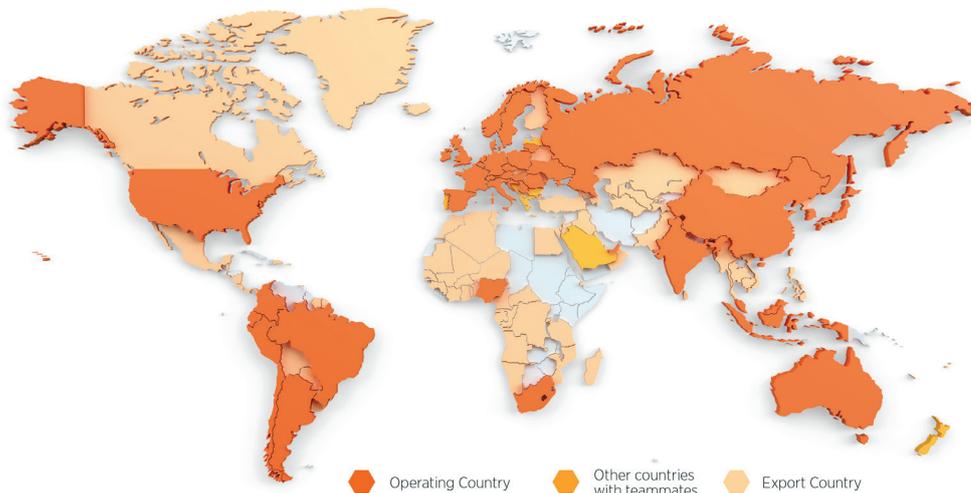
About Etex

Etex is an international building materials specialist; the company wants to inspire people around the world to build living spaces that are ever more safe, sustainable, smart and beautiful. Founded since 1905 and headquartered in Belgium, Etex currently operates in 110 production sites in 42 countries with over 11,000 employees globally.

Etex fosters a collaborative and caring culture, a pioneering spirit and a passion to always do better for its customers. Building on its experience and global market needs, the company strives to improve its customers quality of living with ever more effective lightweight solutions.

Its three R&D centres support four global sales divisions:
• Building Performance: Leader in plasterboards and fibre cement boards, and the global reference in passive fire protection solutions for the residential and commercial segments.
• Exteriors: Provider of innovative, durable, high performance and beautiful fibre cement exterior materials for architectural, residential and agricultural projects.
• Industry: Front runner of engineering expertise to drive the future of high performance thermal and acoustic insulation as well as passive fire protection in the industrial, aerospace and energy sectors.
• New Ways: As a new division created in January 2020, New Ways offers high-tech offsite modular solutions based on wood and steel framing.

Etex is Inspiring Ways of Living, for more information, please visit our website: www.etexgroup.com

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