

Promat



Compartmentation

PROMINA[®] 60

Smoke screen

Technical brochure

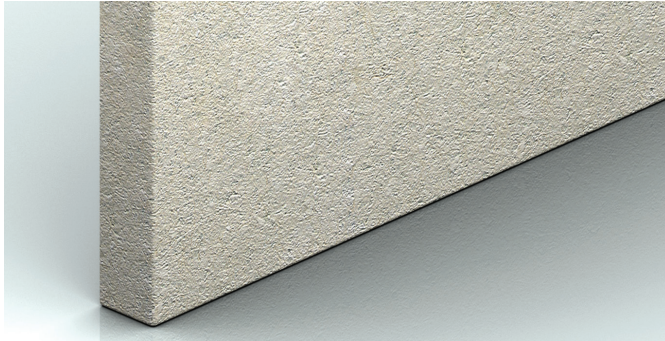


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PROMINA® 60

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/m ³ |
| 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) |

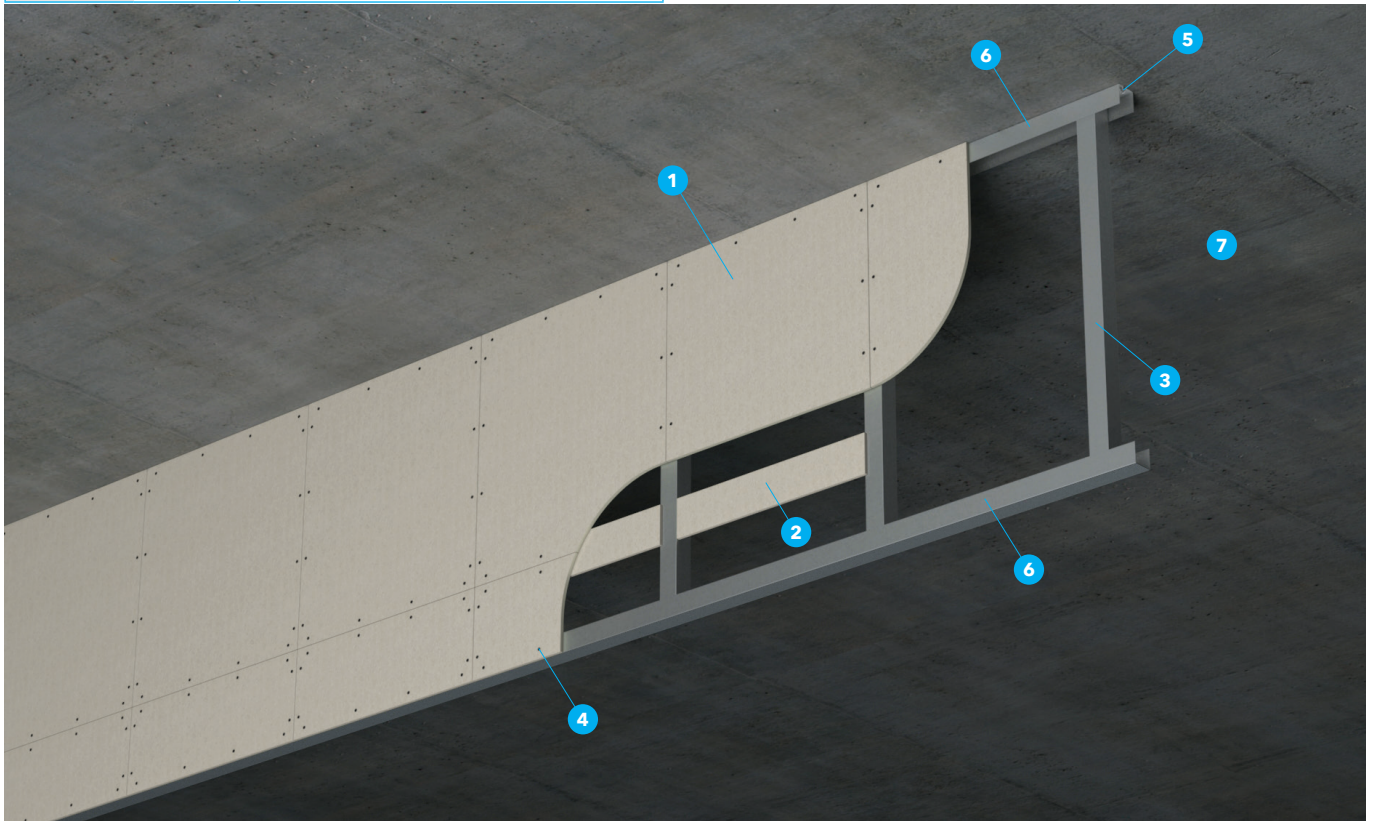
| Static Values | | | |
|--|---|--|------------------------------|
| Modulus of Elasticity E | Flexural Strength F | Tensile strength T | Compressive strength \perp |
| Longitudinal: 4.1kN/mm ² Transverse: 4.1kN/mm ² | Longitudinal: 10.0N/mm ² Transverse: 7.0N/mm ² | Longitudinal: 4.1N/mm ² Transverse: 2.1N/mm ² | 7.76N/mm ² |

| 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 ² K | |
| 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 | 181.5m ² | Approx. 30kg | Approx. 1970kg |
| 12mm | 2440mm x 1220mm | 46 | 136.9 m ² | Approx. 40kg | Approx. 1981kg |
| 15mm | 2440mm x 1220mm | 36 | 107.2 m ² | Approx. 50kg | Approx. 1941kg |

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.

PROMINA® 60 – 2-hour fire rated smoke screen

| | | |
|-----|---------|----------------------------|
| FRL | -/120/- | Model number: PMF.73.12.EN |
|-----|---------|----------------------------|



1. One layer of 9mm thick PROMINA® 60 board
2. 100mm wide x 9mm thick PROMINA® 60 cover strip for horizontal joints
3. 50mm x 50mm x 0.6mm steel channels at 610mm centres
4. M4 self-tapping screws at nominal 200mm centres
5. 50mm long M10 steel anchor bolts at nominal 500mm centres

6. 50mm x 50mm x 0.6mm steel channel perimeter rail
7. Concrete floor or wall or beam

Note: Caulk all perimeter gaps between the boards and masonry structure with PROMASEAL®-A Sealant to achieve the required fire resistance when necessary

Performance specification for PMF.73.12.EN smoke screen

- PROMINA® 60 up to two-hour fire integrity rated asymmetrical smoke screen system constructed with single layer 9mm facing board and relevant accessories tested to EN.12101-1.
- Shall have a valid system's Certificate of Conformity (CoC) of Class 1/1A/ISO System 5 for fire performance of integrity 120 minutes when tested to EN 12101-1.
- Shall have a valid material's Certificate of Conformity (CoC) Class 2 classification as EUROCLASS 'A1' when tested to EN 12101-1.
- Shall be severe duty (SD) graded impact resistant when tested to EN.12101-1.
- Shall hold a valid green label/mark issued by the SEC or SGBC.
- The board shall be calcium silicate, resistant to moisture, able to regain back its strength upon drying and has typical mechanical properties as seen on page 2.

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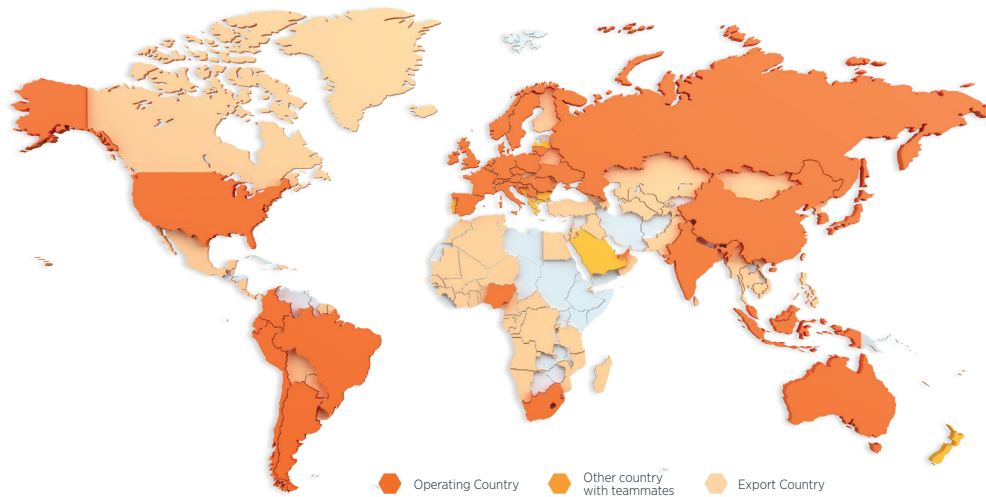
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About Etex

Etex is a global building material manufacturer and pioneer in lightweight construction. Etex wants to inspire people around the world to build living spaces that are ever more safe, sustainable, smart and beautiful.

Founded in 1905, headquartered in Zaventem, Belgium, Etex is a family-owned company with more than 13,500 employees globally. It operates more than 160 sites in 45 countries and recorded a revenue of EUR 3.7 billion in 2022. Etex fosters a collaborative and caring culture, a pioneering spirit and a passion to always do better for its customers.

Etex has five R&D centres supporting five global divisions:

- Building Performance: dry construction solutions including plasterboards and fibre cement boards, plasters and formulated products, passive fire protection and associated products.
- Exteriors: a range of aesthetic fibre cement materials for use in agriculture, architectural and residential exteriors.
- Industry: fire protection and high-performance insulation products for the construction and OEM (Original Equipment Manufacturer) industries.
- Insulation: glass mineral wool and extruded polystyrene (XPS) for thermal and acoustic insulation.
- New Ways: high-tech offsite modular solutions based on wood and steel framing.

Etex's global portfolio includes leading commercial brands such as Promat, Kalsi, Siniat, Equitone, Eternit, Cedral, Durlock, Gyplac, Pladur, Superboard and URSA.

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