

Promat



E&M services
enclosure

PROMATECT[®] -H

Fire resistant access panel for non-emergency services

Technical brochure



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etex inspiring ways
of living

PROMATECT®-H

Fire protective construction board



Product description

PROMATECT®-H is a non-combustible calcium silicate board manufactured under Promat's proprietary Mineral Matrix Engineering Technology. 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. PROMATECT®-H has the following intended uses (according to EAD⁽¹⁾ 350142-00-1106): internal use (type Z2), internal use in high humidity conditions (type Z1) and external semi-exposed use (type Y). For fully exposed conditions, consult Promat Technical Department.

EAD⁽¹⁾: European Assessment Document

Manufacturing Certification

PROMATECT®-H 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

- Structural steel fire protection
- Internal drywalls
- Internal lining to external walls
- Suspended and self-supporting hanger free ceilings
- Self-supporting airduct or cladding to steel sheet metal ducts
- Enclosures to E&M services
- Smoke screens
- Flame barrier
- Parapet & spandrel walls
- Upgrading fire performance of
 - Reinforced concrete
 - Masonry construction

Material properties

General description	Calcium Silicate board made with Mineral Matrix Engineering technology
Surface condition & appearance	Off-white colour Front face: smooth Back face: sanded
Nominal dry density (average)	Approx. 975kg/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	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: 4.0kN/mm ²	Longitudinal: 10N/mm ² Transverse: 7N/mm ²	Longitudinal: 4.11N/mm ² Transverse: 2.15N/mm ²	9.3N/mm ²

Reaction to Fire & Thermal Properties

Combustibility	Surface burning	Thermal conductivity
A1 Classification: EN 13501-1 Non-combustible: BS 476: Part 4	Class O: BS 476: Part 6 & 7	0.242W/m ² 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	181.5m ²	Approx. 29kg	Approx. 1,888kg
12mm	2440mm x 1220mm	46	136.9m ²	Approx. 39kg	Approx. 1,896kg
15mm	2440mm x 1220mm	36	107.3m ²	Approx. 49kg	Approx. 1,858kg
20mm	2440mm x 1220mm	27	80.4m ²	Approx. 65kg	Approx. 1,859kg
25mm	2440mm x 1220mm	22	65.4m ²	Approx. 82kg	Approx. 1,890kg

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.

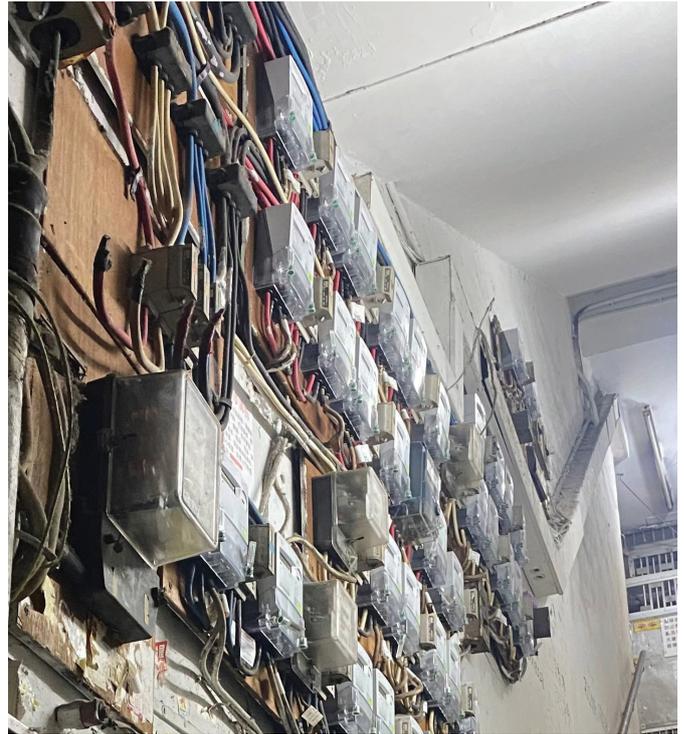
PROMATECT®-H Fire Protective Construction Board

PROMATECT®-H Fire Protective Construction Board are ideal protection for strategically important bulkheads, vertical sections and, particularly, E&M Services Enclosures. A 3-layer x 12mm or 4-layer x 9mm of PROMATECT®-H Board, provide 60 minutes integrity and insulation to BS 476 Part: 20/22.

Its light weight, robust durability and easy workability mean that PROMATECT®-H Fire Protective Board can be delivered to and installed within the space constraints of most work sites.

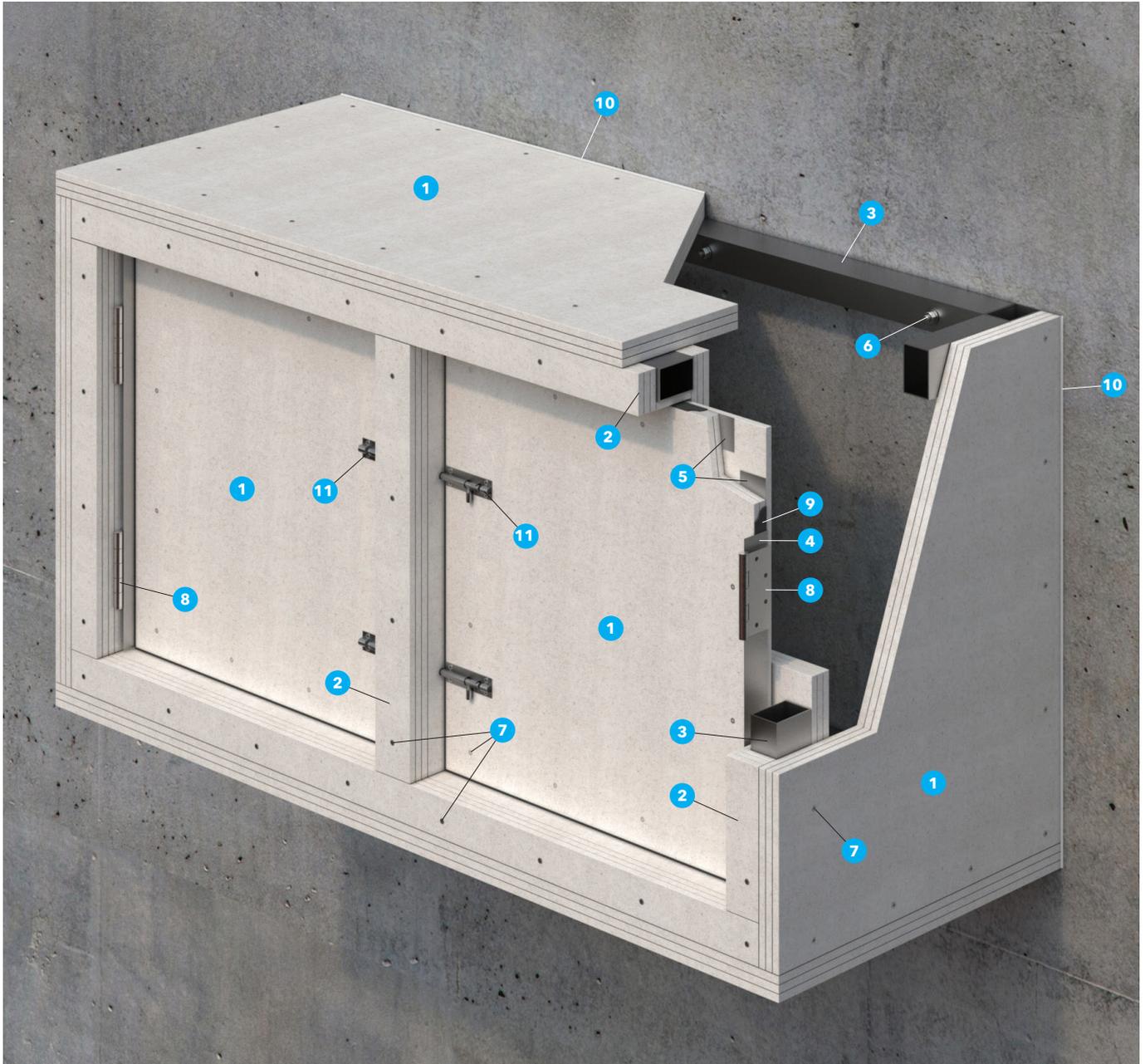
PROMATECT®-H Fire Protective Board in Access Panel and other enclosures can be hinged with no loss of performance, allowing frequent routine inspection of meters and cable works. These enclosures are tested systems and can be tailored to meet specific location and fire performance requirements.

For complete information and further details of PROMATECT®-H Board in special bespoke design, please contact the Promat Technical Department.



PROMATECT®-H – 1-hour fire rated access panel for non-emergency services

FRR	Model number	Board thickness	Test assessment report no. (BS 476: Part 20/22: 1987)
-/60/60	PH.82.60	3 x 12mm thick or 4 x 9mm thick	RED R22H05-1A issue 1



1. PROMATECT®-H board 3 x 12mm thick or 4 x 9mm thick.
2. PROMATECT®-H fillet 3 x 12mm thick or 4 x 9mm thick.
3. 75mm x 50mm x 2mm thick steel hollow section.
4. 20mm x 50mm x 2mm thick steel angle.
5. 50 x 2mm thick steel flat bar.
6. M8 steel anchor bolts at nominal 500mm centres.
7. Min. 35mm long self tapping screws at nominal 200mm centres.
8. Steel hinge.
9. 20mm x 2mm thick PROMASEAL® LFCSK intumescent strip.
10. All perimeter gaps seal with PROMASEAL®-A Acrylic Sealant.
11. Latch lock.

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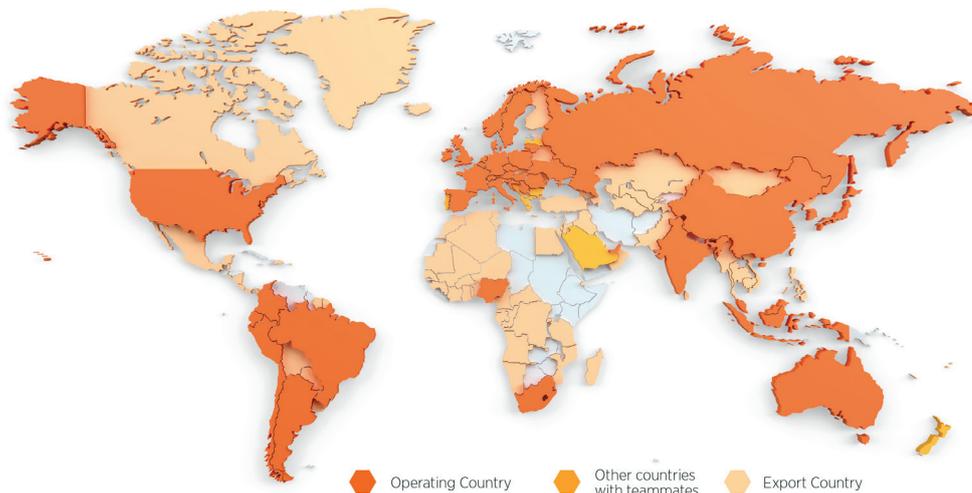
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- The technical data provided in this publication is based on mean values prevalent at time of publication and is thus subject to fluctuation. It should not be regarded as a guarantee to system performance.
- All data contained herein conforms to and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