

Promat



Compartmentation

PROMINA[®] 60

**Fire barrier for open kitchen concept
next to exit door
(FRR -/30/30, BS 476: Part 22)**

Technical manual



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etex inspiring ways
of living

THE EXPERTS IN PASSIVE FIRE PROTECTION & HIGH- PERFORMANCE INSULATION

We leave nothing to chance

Promat is the expert and worldwide reference in passive fire protection and high-performance insulation for the construction sector and a large number of industrial markets. We offer sustainable solutions that protect lives and assets, enhance comfort, optimise process efficiency, minimise the loss of space and energy and help reduce CO2 emissions.



Construction

Applications

- Tunnels
- Structural protection (steel, concrete, timber & composite structures)
- Compartmentation (wall, floor and ceiling structures)
- Fire stopping
- Ventilation and smoke extraction ducts

Industry

Markets

- Energy, Oil & Gas
- Fire Rated Components & Thermal Appliances
- Heavy Industry
- Transportation

A solution for every fireproofing or thermal problem

All our solutions and systems are backed by more than 60 years of experience and know-how. For each project we can rely on our extended, proven and certified range of calcium silicate, microporous and intumescent materials, and cementitious sprays. We make sure we always find the right solution for your fireproofing or thermal problem.

OUR EXPERTISE

60 years of hard work and dedication have given Promat a lead in the domain of passive fire protection. We have developed unique ways to design our products, test them in real life conditions and to predict their behaviour in the event of fire.

Promaxon® technology

Our Promaxon® technology explains the unique qualities of our PROMATECT® Fire boards. We have selected and processed the raw materials until we have discovered **a unique, patented formula**. Through our exclusive engineered mineral matrix structure, PROMAXON® creates a unique, controlled small pore size calcium silicate mix with amazing qualities. This allows us to develop boards with exactly the right density and stability they need to withstand extreme heat conditions.



Promat Fire Testing methods

At the Promat Research and Technology Center, we perform more than 200 fire tests a year to guarantee our products and systems will comply with the most stringent international standards and regulations. Our fire test lab methods go beyond what is regulatory demanded and **replicate the real-life context** where our products can be installed. When a Promat product passes the fire test, it gets an official certificate that guarantees supreme performance.

Promat fire safety engineering

Our fire safety engineers have developed a revolutionary new approach, called **performance based fire safety design**. This new method not only complies with the protective measures as prescribed in fire safety regulations, it explains why the measures are needed. The fire safety engineer delivers an exact risk assessment through the combination of detailed calculations and supportive fire test reports. The technical fire protection report delivers the calculated proof that the building has all the protection installed to offer its designer full peace of mind.



PROMINA® 60

Fire barrier for open kitchen concept next to exit door (FRR -/30/30, BS 476: part 22)

Since the requirement of an open kitchen barrier by the Hong Kong regulation* is a full height wall having an FRR -/30/30 should be produced adjacent to the flat exit door, our PROMINA® 60 fire resistant barrier could be an ideal option to consider. It can form a boundary in open kitchen to stop the fire propagation and therefore let the occupants escape safely and the rescue team, such as fire brigade, start intervention.

* Code of Practice 2011 For Fire Safety in Buildings 2011

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

PROMINA[®] 60

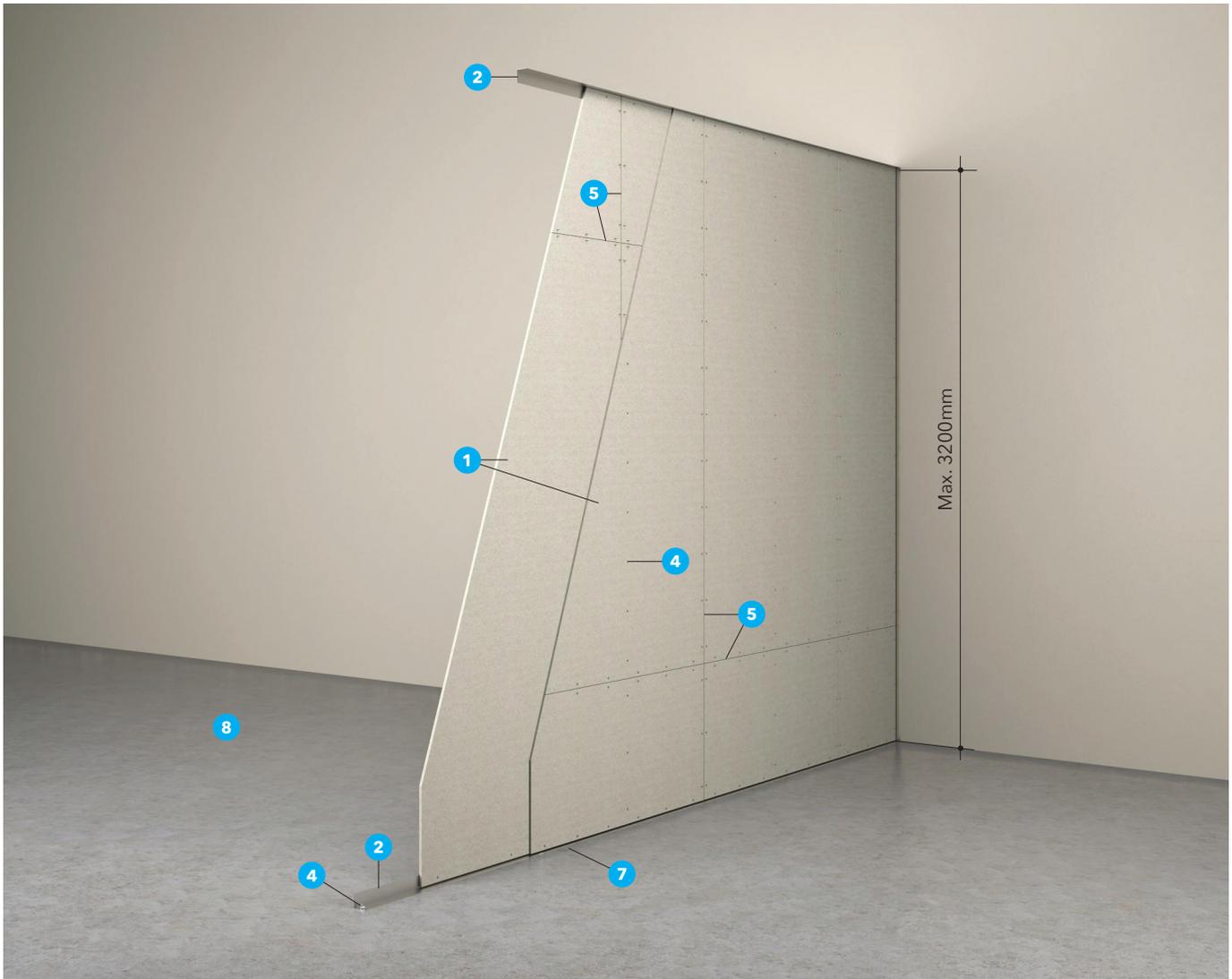
Calcium silicate fire resistant board

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 (-/30/30) fire rated solid partition

Resisting fire from either side / Non loadbearing			
	Fire Resistance FRR	-/30/30	System code: PMF.23.30.BS
	Standard	BS 476: Part 22: 1987	
Construction Partition thickness	Nominal 22mm		



1. PROMINA® 60 board 12mm thick + 9mm thick installed in staggered joints between boards.
2. Steel L-angle min. 50 x 50 x 1.0mm thick.
3. M4 self-tapping screws at nominal 200mm centers.
4. M6 all steel anchors bolts at nominal 500mm centres.
5. Line indicate board joints
6. Mineral wool seal (optional)
7. PROMASEAL®-A Acrylic Sealant to seal gaps on irregularities surface.
8. Concrete wall/floor slab.

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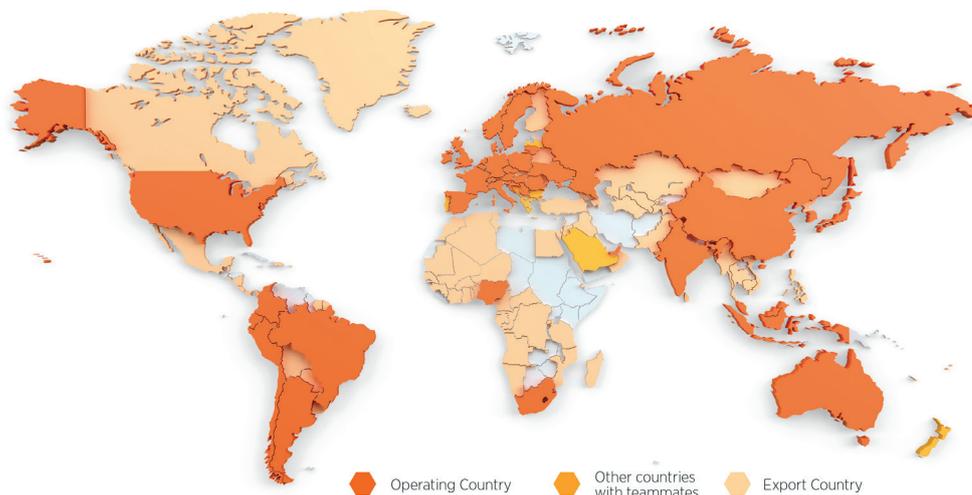
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- The technical data provided in this publication is based on mean values prevalent at time of publication and is thus subject to fluctuation. It should not be regarded as a guarantee to system performance.
- All data contained herein conforms to and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