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Promat



Promat SUPALUX®

A High Performance, Non-Combustible Fire Protection Board



Promat SUPALUX® Introduction

Promat SUPALUX® is a strong, lightweight, non-combustible building board, fully certified for constructions offering up to 240 minutes fire resistance.

Promat SUPALUX® APPLICATIONS

- Timber and steel frame partitions
- Single skin solid wall
- Fire protection to timber floors and mezzanine floors
- Wall, ceiling linings and suspended ceilings
- Ducting and structural steelwork casings
- Construction and upgrading of timber or panelled doors
- Soffits
- Fire protection of thatched roofs
- Boiler backing
- Wet rooms

Promat SUPALUX®	
Building Regulations classification	Class 0
Combustibility	Non-combustible (BS 476-4) and Euroclass A1 (EN 13501-1)
Fire protection	Up to 240 minutes
Thicknesses	6mm, 9mm, 12mm, 15mm, 20mm, 25mm
Length x Width (mm)	2440 x 1220 (6mm, 9mm, 12mm, 15mm) 2500 x 1200 (6mm, 9mm, 12mm, 15mm) 2500 x 1250 (20mm and 25mm)
Nominal dry density (average) Kg/m ³	950
Moisture resistance	Semi-exposed
Designation	Calcium silicate
Ease of fix/decoration	Excellent
Frame	Any standard timber or steel stud
Finish - Front face	Smooth, unsanded
Finish - Back face	Sanded
Cutting	Conventional woodworking equipment. For rough cutting, 6mm sheets can be scored and snapped
Edges	Square (or bevelled edge panels for suspended ceiling tiles)
Certification	CERTIFIRE



Promat SUPALUX® Performance

FIRE PERFORMANCE

- Up to 240 minutes fire resistance
- Non-combustible
- Class 0 buildings regulations classification
- Over 30 years of proven and tested performance

MOISTURE RESISTANCE

- Promat SUPALUX® retains its excellent dimensional stability even in damp and humid conditions and can be installed at an early stage in the construction programme, before wet trades are completed and the building is weather tight.

IMPACT RESISTANCE

- Promat SUPALUX® has good impact resistance making it suitable for most industrial applications.

BIOLOGICAL AND CHEMICAL RESISTANCE

- Promat SUPALUX® is resistant to mould growth, most chemicals and attack by rodents and insects.

EASY TO WORK, FIX AND DECORATE

- Promat SUPALUX® is easy to cut, drill, shape and can be worked in the same way as timber products with no special tools required.

ENVIRONMENTAL

- Water used in manufacturing is re-circulated in a closed system and most waste material can be re-used.

HEALTH AND SAFETY

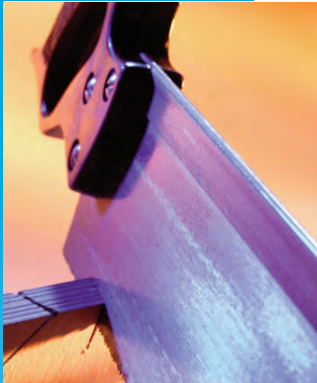
- Promat SUPALUX® is not classified as a dangerous substance and can be placed in an on-site skip with other general building waste.

CERTIFICATION

- Fire test specifications backed by independent assessment and certification.



Promat SUPALUX® Working, Fixing, Decorating



CUTTING

- Promat SUPALUX® can be worked with conventional woodworking equipment although the use of hand saws with hardened teeth is recommended.
- Promat SUPALUX® greater than 6mm thickness may be more easily cut using a power circular saw in conjunction with tungsten carbide tipped blades, or a jigsaw.
- For rough cutting, 6mm sheets can be deeply scribed and broken over a straight edge ('score and snap').

DRILLING

- Use normal low or high speed drills.
- Place scrap board under drilling location for clean hole.



SMOOTHING AND SANDING

- Smooth cut edges with a surform, plane, rasp or file.
- Sand with conventional papers. Garnet paper is best for fine sanding.

Promat materials provide a surface ready to receive most forms of decoration. Where finishes such as wallpaper are to be used, application can be made easier by first sealing the board with a proprietary sealer or paint.

PLASTERING

- It is recommended that a small test area is plastered initially to ensure that the boards have been adequately sealed.
- It is advisable that self-adhesive or hessian scrim is applied over joints and internal angles. Paper scrim is not recommended.

If a skim coat is desired:

- Apply a sealing coat of diluted universal primer/PVA (1 part PVA and 5 parts water).
- Sealing coat should be allowed to dry thoroughly (approximately 24 hours).
- Apply bonding coat (3 parts PVA and 1 part water).
- Apply plaster skim (maximum 5mm thick) while the bonding coat is wet and tacky.
- All calcium silicate boards have a high suction and therefore it is generally difficult to apply gypsum plaster.
- If plastering is essential please consult Promat Technical Services Department for advice.



TILING

- Promat SUPALUX® can be tiled with ceramic, marble, granite and natural stone tiles (maximum tile weight 30kg/m²).
- The minimum board thickness to be used should be 9mm. The boards should be sealed on both faces with PVA or watered down tile adhesive and allowed to dry.
- Fix the boards, preferably with back (textured) face outwards, to the supports at 200mm centres. The screws should be countersunk and corrosion resistant.
- The tiles should then be fixed using standard tile adhesive.

Please note: Do not use Promat SUPALUX® as a tile backer where it forms part of a fire resistant construction.



Promat SUPALUX® Working, Fixing, Decorating

DECORATIVE COATINGS

Decorative coatings applied to the surface of Promat board products should comply with the requirements of Approved Document B (Appendix A) of the Building Regulations, in terms of contribution to the fire loading and the rate of surface spread of flame.

Surfaces should be dry, free of oil, loose surface layers and dust. If required, screw holes and board joints may be filled with Promat READY-MIXED JOINT FILLER and sanded accordingly.

PAINTING

Typically water-based paints such as emulsions, may be used with a watered down first coat to seal the surface. Alternatively, other paint types may require a proprietary sealer, primer or undercoat, depending upon the paint system. Consult with the paint manufacturers for their recommendations for use on calcium silicate boards.

PAPERING

- When papering Promat SUPALUX®, size the surface to seal against suction and improve slip, then hang papers or vinyls in the normal way.

HANDLING AND STORING Promat SUPALUX®

- Carry boards on edge, do not drop on corners.
- Store fully protected from weather on a flat base, clear of ground.
- Fully support boards across width at not more than 1m centres.

HEALTH AND SAFETY

A safety data sheet is available from the Promat Technical Services Department and, as with any other materials, should be read before working with the board.

The board is not classified as a dangerous substance and so no special provisions are required regarding the carriage and disposal of the product to landfill. They can be placed in an on-site skip with other general building waste which should be disposed of by a registered contractor. Promat SUPALUX® is not load-bearing.

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