

Product properties

Promat SUPALUX® is a non combustible calcium silicate matrix board reinforced with selected fibres and fillers. It does not contain formaldehyde.

All below properties are mean values given for information and guidance only. If certain properties are critical for a particular application, it is advisable to consult Promat. Promat SUPALUX® is manufactured under a quality management system certified in accordance with ISO 9001: 2008. The product has passed the site audit in accordance with the environmental standards of ISO 14001: 2004 and occupational health and safety requirements of OHSAS 18001: 2007.

Promat SUPALUX® is off-white in colour. The front face is smooth and is suitable for any forms of architectural/finishing treatment; the reverse face is sanded. The board can be undecorated or easily finished with paints, wallpapers or tiles.

Promat SUPALUX® is resistant to effects of moisture and will not physically deteriorate in a damp or humid environment. Whilst its performance characteristics are not degraded by moisture or ages, Promat SUPALUX® is not designed for application in areas subject to continual damp or high temperatures.

Material properties

Generic description	Promat SUPALUX® calcium silicate matrix board
Surface condition	Front face: smooth Back face: sanded
Building regulations	Class 0
Alkalinity	Approx. pH 12
Coefficient of expansion	-6.4 x 10 ⁻⁶ m/mk
Thickness tolerance	±0.5mm (standard thickness boards)
Dimension tolerance	±5mm (standard dimension boards)

Application

- Structural steel fire protection
- Steel stud and solid/frameless partitions
- Self-supporting membrane ceilings
- Suspended ceilings
- Timber floor protection
- Cladding to steel ducts
- Services enclosures

Physical performance

Property	Test method	Test results
Density	EN 12467 ASTM C1185	Nominal 950kg/m ³
Bending strength	ISO 1896	Average 8.6N/mm ² (dry)
Tensile strength, T_{rupture}	BS 5669: Part 1	Longitudinal 7.14N/mm ² Transverse 4.94N/mm ²
Compressive strength	BS 5669: Part 1	11.36Mpa
Combustibility	BS 476: Part 4 AS 1530: Part 1 DIN 4102: Part 1	Non combustible
Surface burning	BS 476: Part 7 AS 1530: Part 3	Class 1 Class 0,0,0,0
Thermal conductivity	ASTM C518	0.24206W/mK
Moisture content	BS EN 322	Average 6.01%
Total volatile organic compounds (TVOC) emission rates	ASTM D5116	Passed criteria for Singapore Green Label product

Health and safety

When machining the Promat SUPALUX® product, airborne dust may be released, which may be hazardous to health. Do not inhale the dust. Avoid contact with skin and eyes. Use dust extraction equipment. Respect regulatory occupational exposure limits for total inhalable and respirable dust. A health and safety data sheet is available from Promat and, as with any other material, should be read before working with the product.

Promat SUPALUX® product is not classified as a dangerous substance so no special provisions are required regarding the transportation and the disposal of the product to landfill. The product can be placed in on-site rubbish skips with other general building waste which should then be disposed by a registered contractor in the appropriate and approved manner.

Standard thickness	Standard dimension	Number of boards per pallet	Surface per pallet	Weight of boards per m ²	Weight per pallet
9mm	2440mm x 1220mm	61	181.5m ²	Approx. 8.77kg	Approx. 1688kg
12mm	2440mm x 1220mm	46	136.9m ²	Approx. 11.7kg	Approx. 1698kg
15mm	2440mm x 1220mm	36	107.2m ²	Approx. 14.6kg	Approx. 1662kg
20mm	2440mm x 1220mm	27	80.4m ²	Approx. 19.5kg	Approx. 1664kg
25mm	2440mm x 1220mm	22	65.4m ²	Approx. 24.3kg	Approx. 1681kg