



A composite board manufactured with a fibre reinforced cement core, with outer facings of 0.6mm perforated galvanised steel mechanically bonded to each surface of the core. Other steel finishes such as monel or stainless steel, where greater resistance to corrosion is required, are also available.

Available in 2 thicknesses:

- PROMATECT®-S 6mm
- PROMATECT®-S 9.5mm

### Applications

- Structural Steel
- Ceilings, roofs and floors
- Partitions and external walls
- Ventilation and smoke extraction ducts
- Electrical & Mechanical services enclosures
- Smoke barriers, access hatch and panels
- Fire doors

### General Technical Data

Thickness Type		PROMATECT®-S 6mm	PROMATECT®-S 9.5mm	
Combustibility	BS 476: Part 4 ISO 1182 (amended) DIN 4102 AS 1530: Part 1	Non combustible Non combustible A1 Non combustible	Non combustible Non combustible A1 Non combustible	
Surface spread of flame		Class 1 to BS 476: Part 7 and AS 1530: Part 3	Class 1 to BS 476: Part 7 and AS 1530: Part 3	
Building regulations classification		Class 0	Class 0	
Density (composite including steel facings)	kg/m <sup>3</sup>	2480	2130	
Moisture content (composite)	%	6.6	9.7	
Water absorption (composite, oven-dry to saturated)	%	13.5	17.2	
Flexural strength F <sub>rupture</sub> (average)	N/mm <sup>2</sup>	300	300	
Modulus of elasticity E (average)	Gpa	195	195	
Impact strength BS 5669: Part 1: 1989	N/m	Exceeds 980	Exceeds 580	
Effect of hose stream to ASTM E119		Unaffected	Unaffected	
Loadbearing capacity	kN/m <sup>2</sup>	–	10	
Thermal conductivity (λ) 38°C	W/m K	0.40	0.41	
Synthetic high voltage discharge explosion test		Unaffected	Unaffected	
Thickness tolerance (mm)	Board thickness (mm)	Standard format (mm)	Approx. Weight (Kg/m <sup>2</sup> )	
			Dry	EMC 6% moisture
-1.0 / +2.0	6.0	2500 x 1200	19.2	20.3
-1.0 / +1.5	9.5	2500 x 1200	21.9	23.2

PROMATECT®-S is manufactured under a quality management system certified in accordance with ISO 9001: 2000 Certification and in accordance with the environmental standards of ISO 14001.

#### GENERAL NOTE:

WHEN MACHINING, AIRBORNE DUST MAY BE RELEASED. AVOID CONTACT WITH SKIN AND EYES. USE DUST EXTRACTION. RESPECT REGULATORY OCCUPATIONAL EXPOSURE LIMITS FOR TOTAL INHALABLE AND RESPIRABLE DUST. REQUEST SAFETY DATA SHEET.