

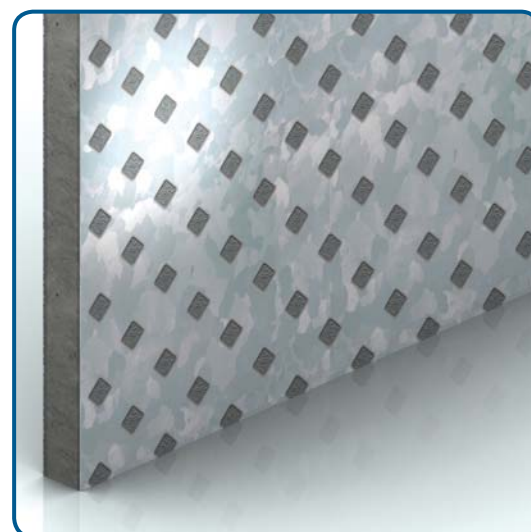
## General Description

PROMATECT®-S is a composite board manufactured with a fibre reinforced cement core, with outer facings of 0.5mm perforated galvanised steel mechanically bonded to each surface of the core. Other steel finishes such as stainless steel are also available for use where greater resistance to corrosion is required.

PROMATECT®-S systems combine lightness, strength, impact resistance and durability with exceptional fire resistance. These systems remain resistant to firefighter hoses leaving the board capable of performing their function should fire services be required to withdraw before a fire is extinguished.

PROMATECT®-S systems have been used successfully for many years, including rail and metro projects, military facilities and in commercial, pharmaceutical and petrochemical plants.

A health and safety data sheet is available from Promat and, as with any other material, should be read before working with the board. The board is not classified as a dangerous substance so no special provisions are required regarding the transportation and the disposal of the product to landfill. They 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.



## Typical Mechanical Properties

Thickness	mm	6	9.5
Modulus of elasticity, E	UDL G/Pa	414	199
Flexural strength, F <sub>rupture</sub>	UDL G/Pa (N/mm <sup>2</sup> )	333	351
Impact strength (BS 5669: Part 1: 1989)	N/m	> 980	> 580

Annotation and/or video of the applications is available in digital format. For system details, please refer to <http://www.promat-ap.com>. For information of cutting, fixing, fabrication, finishing etc, please consult Promat.

## General Technical Properties

Thickness	mm	6	9.5
Product generic description		Cement and steel composite board	Cement and steel composite board
Material class (ISO 1182: 2002, BS 476: Part 4: 1970 and AS 1530: Part 1: 1994)		Non combustible	Non combustible
Surface spread of flame (BS 476: Part 7: 1997)		Class 1	Class 1
Building regulations classification		Class 0	Class 0
Nominal density at EMC* (average)	kg/m <sup>3</sup>	2470	2280
Thermal conductivity (approximate) at 40°C (ASTM C518: 1991) W/m <sup>2</sup> K		0.179	0.179
Nominal moisture content at EMC*		7%	8%
Water absorption capacity (average)	g/cm <sup>3</sup>	5.73	4.77
Thickness tolerance of standard boards	mm	- 1, + 2	- 1 + 1.5
Length x Width tolerance of standard boards	mm	± 5	± 5
Surface condition		Galvanised steel with fibre cement core	Galvanised steel with fibre cement core

Thickness (mm)	Standard dimensions (mm x mm)	Number of boards per pallet	Surface per pallet (m <sup>2</sup> /pallet)	Weight per m <sup>2</sup> of sheet (approximate kg/m <sup>2</sup> )	Weight per pallet (approximate kg)
6	2500 x 1200	30	90	14	1350
9.5	2500 x 1200	25	75	20	1575

\*EMC: Equilibrium moisture content. The properties in above tables are mean values given for information and guidance only. If certain properties are critical for a particular application, it is advisable to consult Promat.

PROMATECT®-S 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.

**AS WITH MOST BUILDING PRODUCTS, THIS PRODUCT CONTAINS QUARTZ. MECHANICAL MACHINING (CUTTING, SANDING, DRILLING) OF BUILDING PRODUCTS WILL RELEASE DUST WHICH MAY CONTAIN QUARTZ PARTICLES. HOWEVER, FOR THIS PRODUCT, WITH EXPOSURE ASSESSMENTS PERFORMED BY ACCREDITED EUROPEAN LABORATORIES USING REFERENCE WORKPLACE MONITORING METHODS, ANY QUARTZ LEVELS IN THE RESPIRABLE DUST WERE BELOW THE DETECTION LIMITS. INHALATION OF HIGH CONCENTRATIONS OF DUST MAY IRRITATE THE RESPIRATORY SYSTEM. DUST MAY ALSO CAUSE IRRITATION OF THE EYES AND/OR SKIN. INHALATION OF RESPIRABLE DUST CONTAINING QUARTZ, IN HIGH CONCENTRATIONS OR OVER PROLONGED PERIODS OF TIME CAN LEAD TO LUNG DISEASE (SILICOSIS) AND AN INCREASED RISK OF LUNG CANCER. AVOID INHALATION OF DUST BY USING MACHINERY WITH DUST EXTRACTION. GUARANTEE ADEQUATE VENTILATION ON THE WORK FLOOR. AVOID CONTACT WITH THE EYES AND SKIN AND AVOID INHALATION OF DUST BY WEARING APPROPRIATE PERSONAL PROTECTION GEAR (SAFETY GOGGLES, PROTECTIVE CLOTHING AND DUST MASK). FOR MORE INFORMATION PLEASE CHECK THE APPROPRIATE MATERIAL SAFETY DATA SHEET, AVAILABLE UPON REQUEST.**

## Applications

- Structural steel protection
- Steel stud partitions
- Self-supporting ceilings, suspended ceilings
- Cladding to steel ducts, self-supporting ducts
- M&E services enclosure
- Smoke and fire barrier, parapet/spandrel wall
- Access panels and hatches, fire doors