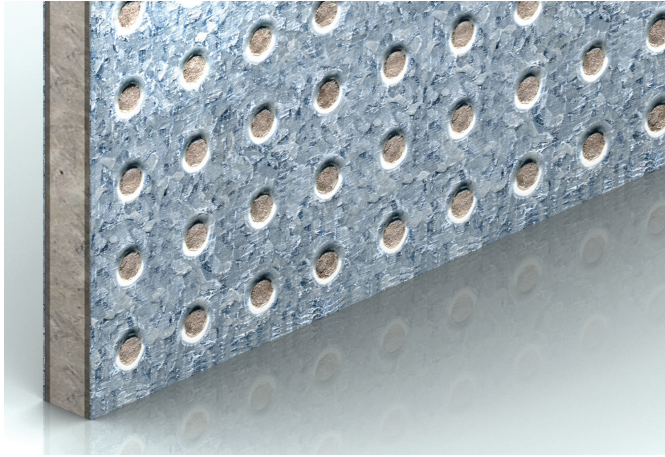


## DURASTEEL®

### Cement and steel composite board



#### Product description

DURASTEEL® 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.

DURASTEEL® 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.

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

Material properties	6.0mm thick	9.5mm thick
<b>General description</b>	Fibre reinforced cement core with outer facings of galvanised punched steel faced mechanically bonded to each surface of the core	
<b>Surface condition &amp; appearance</b>	Galvanised Steel or Stainless Steel	
<b>Fire resistance after 24 hrs water immersion</b>	Satisfactory	
<b>Moisture movement</b>	0.01%	0.01%
<b>Moisture content</b>	7.81%	8.72%
<b>Weight per sqm</b>	17.54 kg/m <sup>2</sup>	22.53 kg/m <sup>2</sup>
<b>Thickness tolerance</b>	+1.5/-0.0 mm	+1.5/-1.0 mm
<b>Length tolerance</b>	+2.0/-2.0 mm	+2.0/-2.0 mm
<b>Width tolerance</b>	+2.0/-2.0 mm	+2.0/-2.0 mm

Static Values	
Modulus of Elasticity E	Flexural Strength F
6.0mm: 35 Gpa 9.5mm: 24 Gpa	6.0mm: 109 Mpa 9.5mm: 83 Mpa

#### Manufacturing Certification

DURASTEEL® is manufactured under a quality management system certified in accordance with ISO 9001. The manufacturing site is also certified to meet the environmental standards of ISO 14000 and the occupational health & safety requirements of OHASA 18001.

#### Fire Resistant Applications

- Internal drywalls
- Internal lining to external walls
- Suspended and self-supporting hanger free ceilings
- Self-supporting airduct or cladding to steel sheet metal ducts
- Enclosures to E&M services
- Smoke screens
- Fire barrier
- Parapet & spandrel walls
- Other applications such as fire resistant flooring and fire resistant trap door

Reaction to Fire & Thermal Properties		
Combustibility	Surface burning	Thermal conductivity
A1 Classification: EN 13501-1 Non-combustible: BS 476: Part 4 AS 1530: Part 1	Class O: BS 476: Part 6 & 7	0.129W/m <sup>2</sup> K

# DURASTEEL®

## Cement and steel composite board

Standard thickness	Standard dimension	Number of boards per pallet	Surface area per pallet	Weight of boards per m <sup>2</sup>	Weight per pallet
6mm	2400mm x 1200mm	30	86.4m <sup>2</sup>	17.54 kg/m <sup>2</sup>	Approx. 1,515kg
9.5mm	2400mm x 1200mm	25	72m <sup>2</sup>	22.53 kg/m <sup>2</sup>	Approx. 1,622kg

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.

## GLOBAL EXPERT IN PASSIVE FIRE PROTECTION

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 CO<sub>2</sub> emissions.

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Promat Asia Pacific

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