

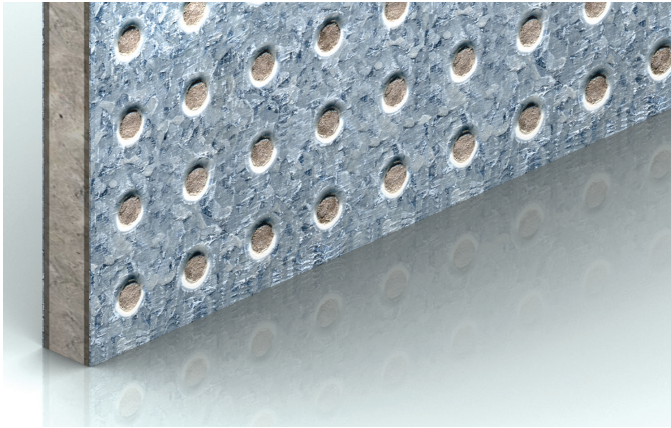
DURASTEEL® Product Data Sheet

Fire protective construction board



www.promat-international.com





General description

Promat DURASTEEL® is a non-combustible composite panel of fibre reinforced cement mechanically bonded to punched steel sheets on both surfaces.

Promat DURASTEEL® has been developed and supported through rigorous testing for use in partitioning, ducting, door and ceiling applications, with a wide range of specifications available.

Promat DURASTEEL® systems combine lightweight, strength, impact resistance and durability with exceptional fire resistance. These systems remain resistant to fire fighters' hoses, leaving them capable of performing their original function even in the aftermath of a fire.

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

Properties and advantages

- High mechanical strength
- High impact resistance
- Blast resistance
- Moisture resistance
- Resistance to water and frost, suited for outdoor use
- Good chemical resistance
- Large size and thin boards
- Load-bearing

Application

- Commercial, Industrial, Transport and Power
- Steel stud partition
- Self-supporting ceilings, suspended ceilings
- Plenums
- Fire doors
- Cladding to steel ducts, self-supporting ducts
- M&E services enclosure
- Smoke barrier, parapet/spandrel wall
- Access panels and hatches
- Stand-alone barriers
- Tunnel linings
- Plant rooms
- Transformer enclosures
- Protected zones

Loading/unloading, storage and handling

Please refer to Handling Guidelines for Promat boards.

Properties and performance

Material Class	Non- combustible
Surface spread of flame	Class 1
Building Regulation classification	Class 0
Alkalinity (approximately) pH (core)	10-13
Thermal conductance (approximately)	60 (9.5 mm)
Coefficient of expansion (20-100°C)	15 x 10 ⁻⁶ (9.5 mm)
Nominal moisture content (air dried)	6%
Thickness tolerance of standard boards	+1.0 to -1.0 (9.5 mm)
Length x Width tolerance of stand	±2.0

Mechanical properties

Flexural strength, _{F_{rupture}}	6 mm	Average, dry	109 N/mm ²
Flexural strength, _{F_{rupture}}	9.5 mm	Average, dry	84 N/mm ²
Modulus of elasticity E	6 mm	Average, dry	55000 N/mm ²
Modulus of elasticity E	9.5 mm	Average, dry	40000 N/mm ²

Thickness (mm)	Length x Width (mm)	Approximate Weight (kg/m ²)	
		Dry	With approx. 6% moisture
6	2500 x 1200	15.9	16.8
9.5	2500 x 1200	19.8	21.0



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