

Paradeck Cement Board

Product Ref: (DsA38-1120)
Issue No: 01



DESCRIPTION

Paradeck Cement Board is a multi-purpose, A1 non-combustible (EN 13501-1), high strength, moisture and mould resistant magnesium oxide/sulphate cement board. **Paradeck Cement Board** is fully reinforced with a high-grade fibre glass mesh providing exceptional durability and load strength capabilities. **Paradeck Cement Board** offers a higher performing alternative to traditional and heavier fibre cement products.

USE

- Ideal for cladding parapets or general wall assemblies to provide a fully non-combustible construction (20mm thick).
- Suitable for over-decking fully supported combustible structural deck types to provide a non-combustible surface finish (12mm thick).

Application

Preparation

- When over-decking, all substrates must be suitably clean, dry and free from ice or loose debris.
- Cladding to vertical details should not trap excessive moisture within confined spaces that could potentially drive dampness internally.

Securement - Over-decking (12mm)

- Install 12mm thick **Paradeck Cement Board** to the combustible substrate that must provide full support in all instances. Secure with substrate specific non-corroding alkali resistant fixings (wood or gypsum screws are not recommended) at maximum 150mm centres around the perimeters of each panel and 300mm centres elsewhere. Fix panels with staggered cross-joints and with a gap of 1mm per metre of panel size at all edges.

Securement - Parapet Cladding (20mm)

- Overclad parapet wall top and inner face as necessary with 20mm thick **Paradeck Cement Board**. The contractor must include for all necessary battens / timber stud and levelling timbers, etc. Secure with substrate specific non-corroding alkali resistant fixings (wood or gypsum screws are not recommended) along all relevant supports. Interlocking joints between the boards to be glued.

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TECHNICAL INFORMATION

Product Properties			
Material description	Magnesium oxide and magnesium sulphate cement board		
	Testing Standard	12mm thick	20mm thick
Reaction to fire	EN 13501-1:2013	Class A1 (Non-combustible)	Class A1 (Non-combustible)
Dimensions tolerance	EN 12467:2012	<+3 mm	<+3 mm
Thickness tolerance	EN 12467:2012	<+0.5 mm	<+0.5 mm
Average weight	ASTM C1186-2008	13.25 kg/m ²	22.20 kg/m ²
Average density	EN 12647	1100 kg/m ³	1200 kg/m ³
Bending strength ambient conditions	EN 12647	21.36 N/mm ²	23.40 N/mm ²
Tensile strength perpendicular to the board	EN 319	0.61 N/mm ²	0.95 N/mm ²
Bending radius	EN 12647	2.2 m	1.7 m
Modulus of rupture / flexural resistance (dry)	EN 12467	20.75 Mpa	24.10 Mpa
Water vapour diffusion coefficient	EN ISO 12572	51 µ	55 µ
Thermal conductivity	EN ISO 10456	0.317 W/mK	0.395 W/mK
Water vapour resistance factor	EN ISO 12572	22 µ	23 µ
Allowable racking shear	ASTM E72-05	458 plf	-
Average nail head pull-out	ASTM D1037	0.9 kN	1.1 kN
Average screw pull out	BS EN 14566:2008 & A1:2009	1898 N	1900 N
Average screw pull through	BS EN 14566:2008 & A1:2009	2173 N	2200 N
Moisture content (at 90+2 °C)	EN 318 / ASTM C 1185 Section 10	8.5 %	10 %
Water absorption 24 hours	ASTM C 473	<10	<12
Freeze/thaw (cycles)	ASTM C 666	100	100
Breaking strength	EN 12467	1.95 Mpa	2.25 Mpa
Chloride ion determination	ASTM C 871-11	0.019%	0.019%
Smoke development index (SDI)	ASTM E84-18, UL 723-10	25 (Class A)	25 (Class A)
Smoke development index (FDI)	ASTM E84-18, UL 723-10	0 (Class A)	0 (Class A)
Humidified deflation	ASTM C473:2017, Clause 14	Nil	Nil

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PACKAGING

Paradeck Cement Board is supplied in the following sizes (palletised information is available upon request):

- 12mm thickness: 1200mm x 2400mm.
- 20mm thickness: 1200mm x 600mm or 1200mm x 2400mm.

STORAGE

- Sheets are supplied palletised with protective plastic sheet wrapping.
- Store on covered and dry level ground, away from the working area or mechanical plant.
- Pallets should be stored safely on firm level ground.
- Cover protection is essential for stacked boards.
- The number of pallets per stack is dictated by the site conditions, such as load strength or flatness of the ground.
- Under normal warehouse conditions a maximum stack of 5 pallets is permissible (<4 pallets recommend).
- All board should be suitably protected from adverse weather conditions.

HEALTH & SAFETY

- Plastic wrapping must not be burnt as toxic fumes are given off.
- Manual handling: Care should be taken when manually handling panels. Good lifting practices should always be followed to avoid the risk of sprains, strains or ruptures. Plan so that, wherever possible, products are positioned near to the point of use. Mechanical handling devices should be used where reasonably practicable.
- **Paradeck Cement Board** in its intact state does not present a health & safety risk. However, control measures should be implemented during cutting, sawing, sanding or drilling. See the appropriate Health and Safety Data Sheet for more detailed information.

This document is only a guide.

Langley Waterproofing Systems Ltd reserves the right to change the composition and fixing recommendations of products as a result of the evolution of knowledge and technology.