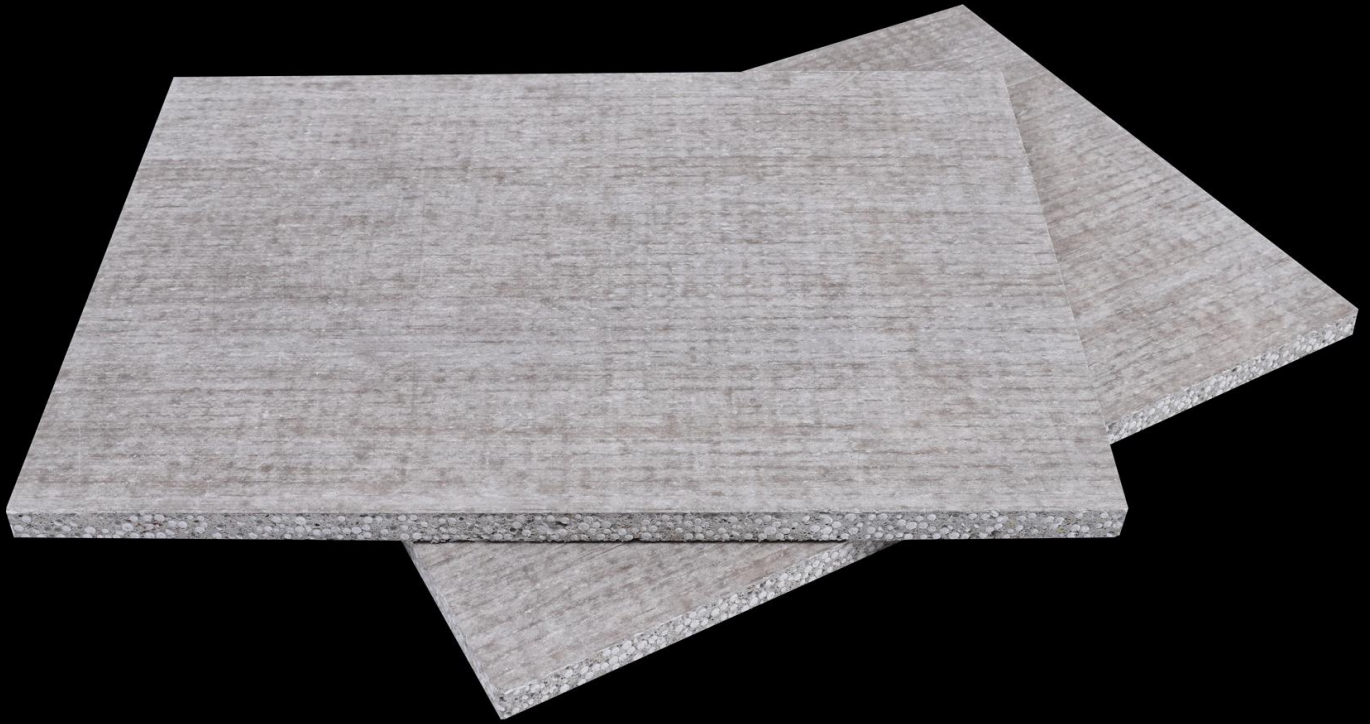


TECHNICAL DATASHEET



CE

Ver: 09-05-2024

CEM-ROCK®

www.cemrock.ie



Light Weight



Fire Resistance



Water Resistance



Sound Insulation



Moisture Resistance



Eco-Friendly

 **Greenspan®**
System Sales Ireland Ltd.

Greenspan System Sales Ireland Ltd.

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Description

Cem-Rock® Cement Board is an ideal substrate for a variety of exterior render and cladding systems in timber frame and steel frame structures. It is a light-weight EPS bonded board which is a multi-purpose highly durable non-combustible board for use in applications requiring a combination of moisture and thermal resistance as well as superior performance in fire. Cem-Rock® Cement Board is one of the lightest cement board in the market making it easy to use on site.

Characteristics

- Light weight multi-purpose board
- Suitable for wet areas
- Ideal tile backer board
- Non-combustible, Class A1 to EN 13501-1
- Archives 90min fire rating for external walls
- Archives 120min fire rating for internal partitions
- Easy to cut, screw and install on steel and timber frame

Application

Suitable for external applications:

- Cladding system receiver
- External soffits
- Sheathing

Suitable for internal applications:

- Drylining partition walls
- Tile backer board
- Wet rooms - tub and shower surrounds
- Floor underlayment
- Fire-rated partitions

Colour Appearance

- Grey

Loading and Unloading Boards

Cem-Rock® Cement Boards are supplied on pallets suitable for forklift unloading by forklift. If off-loading by crane and slings is envisaged, care should be taken to avoid damaging the edges of the boards. All pallets and crates can be safely handled by using a forklift or hoisting equipment and straps. Steel cables or chains should not be used as they will damage both the pallet and the boards.

Where crates are removed from a box container, care should be taken not to subject crates and pallets to any impact shock, as this could result in cracking of the boards. Always drive the delivery vehicle as close as possible to where the boards are to be used. When transporting the boards, it is essential to secure the pallets to prevent sliding. If the boards are subsequently moved around the site, they should be placed on a rigid base suitable for lifting by forklift. Cem-Rock® Cement Boards should always be stored on a rigid base.

Storage

All Cem-Rock® Cement Boards are supplied with a protective plastic sheet wrap. This protection should not be removed until the boards are ready for use. In general, the following steps should be taken to ensure that the boards remain in good condition during storage. All Cem-Rock® Cement Boards should be stored on covered and dry level ground, away from the working area or mechanical plant.

Pallets should be stored safely on firm level ground. If two or more pallets are stacked, the following guidance as well as local legislation and regulations must be observed. The number of pallets per stack is mainly determined by site conditions such as ground conditions, flatness and load capacity of the ground.

Sizes and Packaging

Size (mm)	Thickness (mm)	Horizontal Pallet (Q-ty)	Vertical Pallet (Q-ty)
2400 x 1200	12	65	74
2700 x 1200	12	65	74
2400 x 1200	10	78	88
2400 x 1200	6	130	148

Technical Properties

Property (Testing Standard)	Test Result
Nominal Dimensions	2400x1200x12mm
Dimensions tolerance (EN 12467:2012)	Level 1 (+/- 3mm)
Thickness tolerance (EN 12467:2012)	Level 1 (+/- 0.6mm)
Average weight (12mm thick sheets)	11.6 kg/m ²
Average density (EN 12467:2012)	< 950 kg/m ³
Bending strength (EN 12467:2012)	≥ 6.2 MPa
Bending radius	2.0 m
Modulus of Rupture Flexural Resistance	⊥ 10.3 N/mm ² (Class 2) ∥ 8.5 N/mm ² (Class 2)
Reaction to fire classification (EN 13501-1:2013)	A1 (non-combustible)
Water Vapour Transmission	1,975 g/hm ²
Water vapour diffusion coefficient μ (EN ISO 12572)	54
Thermal Conductivity (EN ISO 10456)	0.39 W/mK
Screw pull-out / head pull-through (Grabfix 4.8x40mm screw to BS EN 14566; Mean)	132 N / 358 N
Crying test (to British Board of Agreement specification)	Pass
Mould growth (MOAT 33)	Pass
Water Impermeability (EN 12467:2012)	Pass
Freeze/Thaw (EN 12467:2012)	Pass
Warm Water (EN 12467:2012)	Pass
Soak Dry (EN 12467:2012)	Pass
Heat Rain (EN 12467:2012)	Pass
Fire Rating (Internal Wall Partitions)	120 Minutes
Fire Rating (External Walls)	90 Minutes

Installation

Substrate	Steel stud		Timber stud
Grade	0.5-2.5 mm	1.2-4.0 mm	C16
Applications for 6, 9, 12 mm thick boards			
Internal	WHX32	TSTF4.8-38-3	WHX42
Semi-exposed	BMDW4832	BMWD4.8-38-3	BMDW4832

Note: Stainless steel type of the above listed screws must be used in case the project is situated in a coastal location (<1000m from the coastline) for semi-exposed installations or for interior installations, where fixings will be exposed to the element for extended period of time. Please contact Greenspan technical department for details.