

TECHNICAL DATASHEET



Ver: 20241021



www.greenspan.ie/aquafire



High Strength



Fire Resistance



Water Resistance



Sound Insulation



Moisture Resistance



Eco-Friendly



Greenspan System Sales Ireland Ltd.

Finnoe, Ballyhahill, Co. Limerick, V94 Y2C6, Ireland.

Tel: 00353 (0) 69 82222, E-mail: sales@greenspan.ie

Website: www.greenspan.ie

Description

Aquafire® is a smooth faced multi-purpose fibre-reinforced lightweight cement board

Characteristics

- Extremely lightweight
- Highly insulating
- The easiest board to cut on the market
- Easy to screw
- Water resistant
- It can be used for indoor or outdoor applications
- It does not decay, deform, flake or crumble
- It does not deteriorate in the presence of water

AQUAFIRE® is an exceptional and resistant support for the application of ceramic tiles, glass mosaics brick coverings, render systems or any other type of covering.

Applications

- Internal Partitions
- Backer Board for the Wet Areas
- External Substrate with EIFS
- External Sheathing Board
- Laminating
- Render receiver board

Colour Appearance

- Grey

Loading and Unloading Boards

Aquafire® 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. Aquafire® boards should always be stored on a rigid base.

Storage

When storing Aquafire® boards the following steps should be taken to ensure that the boards remain in good condition during storage. All Aquafire® 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.

Maximum number of pallets stacked one above the other under warehouse conditions: All boards – maximum 5 pallets, recommended <4 pallets. All boards must be protected from inclement weather. Cover protection is essential for stacked boards. All boards must be stored under cover. Complete protection for stacked and covered boards in storage.

Sizes and Packaging

Size (mm)	Thickness (mm)	Horizontal Pallet (Q-ty)	Vertical Pallet (Q-ty)
2400x1200	12.5	50	50

Installation

Substrate	Steel stud		Timber stud
Grade	0.5-2.5 mm	1.2-4.0 mm	min. C16
Internal	WHX32	TSTF4.8-38-3	WHX42
Semi-exposed	BMDW4832	BMDW4.8-38-3	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.

Technical Properties

Property	Result
Reaction to fire (to EN 13501-1)	Class A1 (Non-Combustible)
Board classification (to EN 12467)	Category A
Nominal dimensions (length x width x thickness)	2400mm x 1200mm x 12.5mm ^
Dry density (to EN 12467)	960 kg/m ³ *
Weight (to EN 12467)	12 kg/m ² *
Modulus of Rapture (wet; to EN 12467)	5.8 MPa
Modulus of Elasticity (wet; to EN 12467)	1043 MPa
Bending radius (full sheet)	2.0 m
Thermal conductivity (to EN 12667)	0.20 W/m K
Water vapour diffusion (to EN 12572)	31 μ
Specific heat	1 KJ/Kg K
Fasteners shear load resistance (to ETAG 018-4)	840 N
Fasteners pull-through resistance (to ETAG 018-4)	803 N
Eccentric vertical load resistance (shelf; to ETAG 018-4)	30 kg
Soft body impact resistance (50kg; to EOTA TR01)	400 J
Hard body impact resistance (500g; to EOTA TR01)	>6 J
Tensile strength perpendicular to the plane (to EN 319)	0.99 MPa
Tensile strength parallel with the plane (to EN 789)	1.05 MPa
Water absorption	<20%
Water impermeability (to EN 12467)	100%
Linear variation in humid ambient	0.39 mm
Compressive strength	4.18 MPa
Linear thermal expansion	0.013 mm/°C m
Dimensional stability (to EN 318)	0.39mm/m
pH	12
Resistance to bacteria	No growth
Fungal resistance	No growth
TVOC	77 μg/m ³
Acoustic insulation	Rw = 32 dB
Fire rated build-ups	EI 120: Type 8

* - Tolerance ±15% ^ - Tolerance on length ± 5mm; width ± 3.6mm; thickness ± 1.2mm