



## Technical Data Sheet

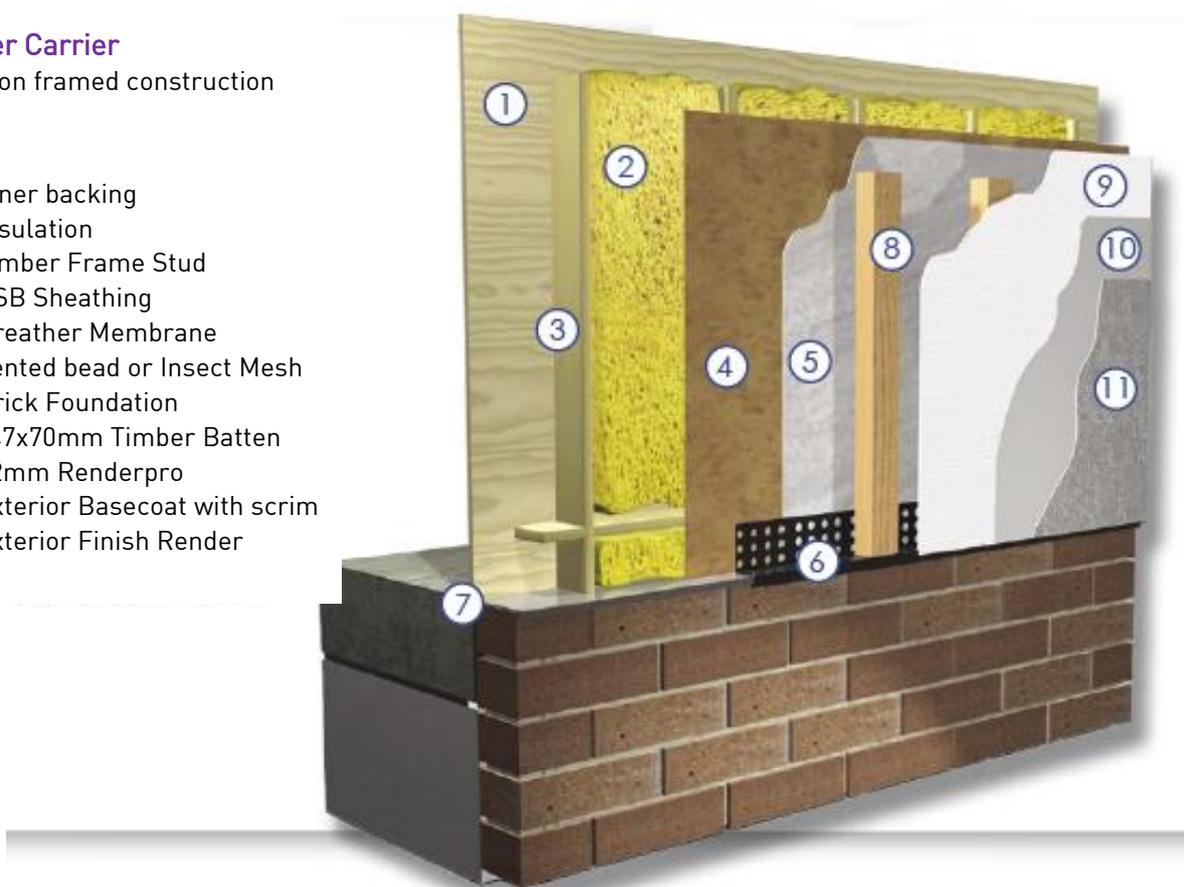
Renderpro is a high strength external board suitable for use as a receiver board for acrylic and cementitious renders in external locations. Consisting of four layers of mesh, Renderpro can provide a durable and consistent substrate with excellent dimensional stability that once installed is immediately ready to accept a suitable render system. Renderpro is moisture, frost and impact resistant, A1 non-combustible, user friendly and is approved by a number of major render manufacturers. The board should be kept dry and protected from inclement weather prior to finishing.

### Render Carrier

Detail on framed construction

#### Key:

- 1 Inner backing
- 2 Insulation
- 3 Timber Frame Stud
- 4 OSB Sheathing
- 5 Breather Membrane
- 6 Vented bead or Insect Mesh
- 7 Brick Foundation
- 8 \*47x70mm Timber Batten
- 9 12mm Renderpro
- 10 Exterior Basecoat with scrim
- 11 Exterior Finish Render



### MANUFACTURE

Renderpro is manufactured using inorganic substances, SiO<sub>2</sub>, CaCO<sub>3</sub>, MgO, MgCl<sub>2</sub>, and alkaline resistant fibreglass mesh.

The product is naturally cured using no energy through cold fusion unlike other products on the market which use autoclaving technology. This ensures that Renderpro has a relatively low impact on the environment. Renderpro achieves its superior strength and flexibility by the introduction of four layers of alkaline resistant glass fibre mesh. The consistent high quality of the product is maintained and monitored through a sophisticated digitally controlled process to ensure a superior finished board is maintained.

### TYPICAL USES

It is ideal for applications requiring a combination of these properties, for example:

- Render carrier board for a range of silicone, acrylic and cementitious render system
- POD / modular construction
- Render carrier for timber / steel frame structures
- Pre-fabricated caravan construction



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# Technical SPECIFICATION

Test Subject	Test	Result
Density Dry (ex works)		1050 kg/m <sup>3</sup> (+/- 10%)
Modulus of Rupture	BSEN 310	17.7 Nmm <sup>2</sup> (across grain) 12.4 Nmm <sup>2</sup> (along grain)
Modulus of Elasticity	BSEN 310	6415 Nmm <sup>2</sup>
Impact strength (Brinell)		34 Nmm <sup>2</sup>
Vapour Permeability	BSEN 12086	53 mg/m <sup>2</sup> /h
Thermal Conductivity at 50°	BSEN 594	0.26 w/m/°k
Fire Test	A1 Euroclass	Class Non-Combustible
Change in thickness (after immersion in water)	BSEN 317	0 – 0.1% Nmm <sup>2</sup>
Tensile Strength (perpendicular to plane)	BSEN 319	2.11 Nmm <sup>2</sup>
Screw Withdrawal Strength	BSEN 320	1.15 KN
Cyclic tests in humid conditions	BSEN 321	
Average Thickness Swelling	BSEN 321	2.04 Nmm <sup>2</sup>
Moisture Content	BSEN 322	8.6%

### DIMENSIONS

Renderpro is supplied as a rectangular board with square edges and is white in colour.

Size: 1200 x 2400mm

Thickness: 12mm

### TOLERANCES

Length and Width: + / - 2mm

Thickness: + / - 0.2mm

Edge Straightness: 1mm / metre

Squareness of Edge: < 3mm

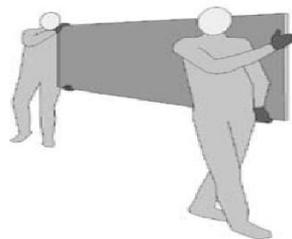
**ATTENTION – Site-batched and traditional sand and cement renders cannot be used directly onto Renderpro. This can result in the moisture being withdrawn from the sand and cement leading to cracking and ultimate failure.**

APPROVED RENDER CARRIER BOARD SUITABLE FOR THE FOLLOWING SYSTEMS (AMONGST OTHERS)





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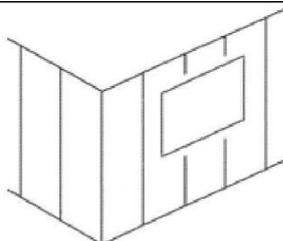
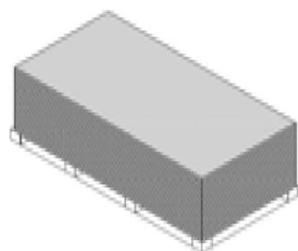
Renderpro should be carried upright.

Take care not to damage corners and edges when setting down the board.

Ensure the base is strong enough to support the Renderpro.

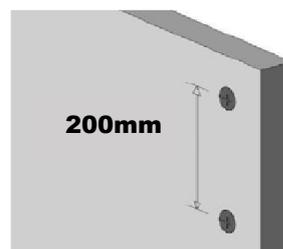
The boards should be protected from moisture and frost before being installed. If the boards get wet, they should be dried before installation.

Do not install Renderpro if the temperature is below 5°C. Do not apply finishing coats when air temperature is below 5°C.



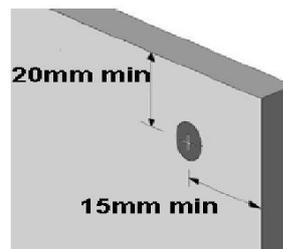
Install vertical battens at 400-600mm centres to the structure.

Surround the openings with extra battens.



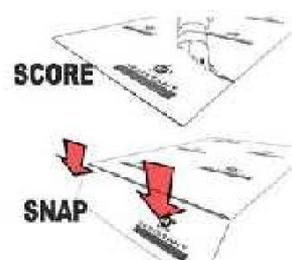
Fix the Renderpro to the framework using approved stainless steel screws.

Fixings should be placed at a maximum 200mm centres.



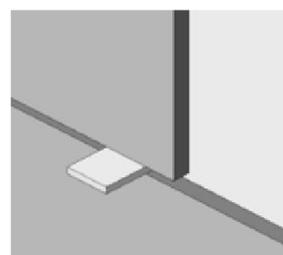
The fixings should be 15mm in from the edge of the board and 20mm from the end.

Leave a gap of 3-4mm between the boards using a suitable spacer.

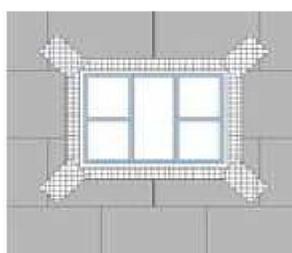


Use a utility knife to mark, score and snap the board to size.

A handsaw or ripsaw can also be used in a ventilated area but precaution should be taken for personal protection: safety glasses, protective gloves, overalls and mask with dust filter.

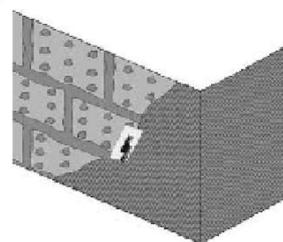


Fill the joints with an approved silicone or acrylic mastic depending on the base coat to be used and then cover with an alkali resistant joint tape.



All apertures & openings should be reinforced with mesh.

There should be no continuous joints.



Fill screw caps and joint tape with our approved joint filler.

Apply HPX, HyPol or JLM20 base coat and scrim cloth prior to the application of the final coat.

- The finished render should be no thicker than the board.
- When fitting the boards, make sure that it is fitted with the textured face out. This will improve the adhesion of the render to the board.
- The board should be protected from the elements and kept dry prior to render application.