

TECHNICAL DATA SHEET

RendaClad Lite Boards – Render Carrier Board CLASS O A1 FIRE RATED NON-COMBUSTIBLE



Product Code: ESPS- RCL06mm/09mm/12mm 1.2mx2.4m Board Sizes



SPS ENVIROWALL PROMOTES THE RE-USE –RECYCLING AND RESPONSIBLE DISPOSING OF ALL OF ITS PRODUCT RANGE, VIA THE LOCAL ENVIRONMENTAL RECYCLING SCHEMES.

Characteristics

SPS Envirowall RendaClad Lite is a Class O A1 non-combustible render carrier, high performance cellulose fibre cement building board, offering excellent strength, weathering and stability properties when used in conjunction with Envirowall basecoat and SPS Envirowall thin coat finishes. Formulated to achieve a strong key between basecoat and top coat and high tensile strength (ILB) essential for long term durability. Developed to minimise board movement reducing any stress being applied to the render system. RendaClad Lite is A1 non-combustible.

Technical Data

RENDACLAD LITE BOARD ONLY

Nominal density	1200kg/m ³
Bending Strength (Modulus of Rupture)	EMC Average 8.8Mpa
Modulus of Elasticity (MoE)	4.0Mpa
Thermal Conductivity	0.12W/mk
Moisture Content	≤9%
Moisture Movement (EMC to Saturated)	0.06%
Fire Rating	Class O A1 non-combustible
Biological Resistance	Highly resistant
Frost resistance	4 star
Surface Condition	Front face – Smooth, Back face -Textured
Durability (life expectancy – minimum)	30 years
Standard board size	2400 x 1200mm

Thickness (mm)	6	9	12
Weight (kg/m ²)	7.3	11.1	14.6
Sound insulation (dB)†	24	29	31

Dimensional Tolerance

Length	+3mm
Width	+2mm
Thickness	+0.5mm

RENDACLAD LITE BBA APPROVED SYSTEM

Strength and stability — the systems can resist the loadings likely to be met in the UK (see sections 4 and 6 of certificate).

Performance in relation to fire — the board has a reaction-to-fire classification of Class O A1 Non-combustible and has a spread-of-fire rating equivalent to Class 0 as defined in the national Building Regulations (see section 7 of certificate).

Weather tightness — the systems resist the passage of moisture from the ground and from weather (see section 9 of certificate).

Durability — the systems have acceptable durability and can be expected to have a service life in excess of 30 years (see section 12 of certificate).

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Substrate

SPS Envirowall RendaClad Lite boards can be fitted to timber battens or the SPS Envirowall metal perforated top hat rail support system. It can also be used as a Rainscreen solution and a soffit board supported by a helping hand system or suitable framework (SPS Envirowall can offer a supply & Design service if required). Movement joints, both horizontal and vertical must be a part of the design consideration prior to applying any RendaClad Lite board system and could form a part of the specific insurers warranty requirements, if in doubt please consult our Technical Department for advice.

Application

The RendaClad Lite board can be installed up to three storeys high.

Cut with a fine tooth hand saw or power saw ensuring suitable dust control measures are taken and observing all necessary health and safety regulations. Damaged boards must not be used. The RendaClad Lite boards are fitted horizontally, ensure boards are secured in a staggered bond pattern with L shapes around all aperture details.

Metal rails – 0.9 mm thick, 5009 grade galvanised perforated steel top hat profiles manufactured to BS EN 10143. Profiles are 25 mm deep by 60 mm wide, or

Timber battens – 25 mm by 50 mm.

For timber batten application use support timber battens 50mm x 25mm at a maximum of 600mm centres.

Metal top hat rails must be at a maximum of 600mm centres. Metal top hat rails application are slotted top and bottom to allow for them to be installed horizontally to maintain ventilation and drainage throughout the cavity.

For Timber battens, secure using Climaseal self-tapping screw for Timber **Ref. ESPS-RKW41x5mm**. For Metal top hat rails use Climaseal self-tapping screw for Steel **Ref. ESPS-RKC42 or 32mmx5mm (dependant on metal supports)** .

Fix a minimum of 15mm from board edges, 50mm in from the corners and spaced at a maximum of 300mm, the screws must not be over-tightened.

RendaClad Lite Board Joints – allow a 2mm gap around all board joints and apply a 50mm wide self-adhesive scrim tape over board joints prior to basecoating.

For cutting the product in any volume, we recommend the use of a Poly Crystalline diamond (PCD) blade with flat teeth configuration, to avoid excessive wear on unsuitable blades. Provide appropriate dust extraction and wear eye protection, gloves and follow the product Health and Safety data sheet. Please contact our technical department for details.

IMPORTANT – Render must be applied to smooth face of the board.

The Height and location of the project application will have an influence on the required board thickness. Various beads, movement joints and profiles are available for the system application. Follow render application requirements from appropriate specification (Request system application specification from SPS Envirowall Limited)

Storage

Supplied in full pallets and covered with shrink-wrapped polythene for protection during transit. This packaging should not be considered adequate for long term outside protection. For longer term protection on site, the

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products should be stored either indoors, or under cover and off the ground and should not be left permanently exposed to the elements.

Certificates/approvals

BBA Agrément Approved Certificated system 12/4939

Identification

Supplied palletised with polythene shrink-wrap, available in 45 or 60 sheets per pallet.

Special Information

Disposal

RECYCLING AND RESPONSIBLE DISPOSING OF ALL OF ITS PRODUCT RANGE, VIA LOCAL ENVIRONMENTAL RECYCLING SCHEMES.

Do not empty contents into the ground, water courses or drains. Check local landfill requirements for correct disposal. See the SPS Envirowall Limited Health & Safety data sheet on this product for information regarding the safe disposal of this product.

The information supplied in this Technical Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process.

Our application recommendations, whether verbal, written or as graphics, are given to the best of our knowledge and the state of the art. Information about values, quantities etc. are based on approximate figures. The recommendations do not constitute a legally binding warranty of quality. In particular no liability claims may be based on these recommendations; the provisions of the product liability law remain unaffected.

The recommendations do not release the purchaser from his own duty to test the product or from his own responsibility, and in particular they do not release the purchaser from compliance with the relevant technical guidelines, regulations, DIN and laws. Publication of a revised version of this technical information sheet due to technical progress invalidates all older versions of this document.