



Rainspan

NORclad®

eurobond

delivering low risk building solutions

Part of Eurobond Laminates range of architectural façade systems

Rainspan™ NORclad®

Rainspan™ NORclad® is part of Eurobond Laminates range of architectural façade systems. The system comprises of Eurobond's Rainspan™ composite panel support system with a timber weatherboard façade. As well as Rainspan's excellent 'built-in' fire, acoustic, thermal and structural performance, the timber rainscreen can be installed vertically or horizontally with varying widths and wood types to create unique, natural, building solutions with a number of inherent benefits:

- All Rainspan™ systems utilise a non-combustible stone wool core and are fully tested to provide guaranteed fire resistance of up to two hours.
- Fire rated spans of up to 7.5 metres reduce the need for secondary steelwork, lowering overall building costs.
- Rainspan™ is quick and easy to install, allowing a weathertight building envelope to be created, removing the rainscreen installation from the critical path.
- All Rainspan™ systems help to reduce operational carbon and achieve BREEAM excellent rated buildings by providing U-values as low as 0.23 W/m²/K.
- The Rainspan™ system provides continuity of thermal performance and 'as tested' air tightness of <1m³/m²/hr well in excess of the requirements of ADL2 2010.
- The NORclad® system can be laid vertically or horizontally to create a wide range of unique building externals.
- System fasteners are available, specifically designed to eliminate over-tightening.
- Rainspan™ has a high recycled content, both steel and stone wool can be recycled at end of life.



Rainspan™ NORclad® Technical Overview

Loads and Fixings

Advancements in fixings technology have enabled the tried and tested Rainspan™ NORclad® system to be designed to withstand the highest of wind loads and to provide support to interfacing elements of glazing and cladding.

Substructure

Fast and lightweight, the vertical batten detail allows for drainage of the wet zone, preventing potentially hazardous moisture build up and micro environment generation. The battens are securely fixed to the face of the Rainspan™ panel with tested and approved stainless steel fasteners.

Buildability

The system is suitable for installation by cladding contractors providing they have undergone suitable training by Eurobond.

Strength and Stability

The system has been tested to resist all wind loads normally encountered in the UK.

Air and Water Penetration

Any water collecting in the cavity will be removed by drainage and ventilation.

30 Year Warranty

Osmose Micro Pro and Micro Shades Brunnea High Pressure treated products treated to Hazard Class 3 provide the surety of a 30 year warranty against rot and fungal decay out of ground contact with an expected service life of 50 years.

Technical Support

The system is suitable for installation by cladding contractors with full technical services support available:

- On-site or in-house training by our dedicated applications engineers
- Project specific design advice entailing bespoke CAD details and site specific load/span calculations in addition to a full suite of standard details
- Guidance in specifying the most appropriate products to meet project specific requirements

Durability

In normal UK conditions, the system has been assessed to have a life expectancy in excess of 60 years.

Behaviour in Relation to Fire

As well as Class 0 surface spread of flame (where specified), the Rainspan™ NORclad® system is fire resistant for up to two hours according to EN1364-1 and also achieves up to two hours fire resistance to LPS 1208. All Rainspan™ panels have at their core a stone wool structural insulation board which is defined as non-combustible when tested to BS EN ISO 1182.

Certification

NORclad is both FSC and PEFC certified.

Sustainability and Choice

NORclad® envelops a range of sustainable, renewable and responsibly procured timber species such as European Redwood, Western Red Cedar, Siberian Larch, UK Larch, UK Cedar and Douglas Fir, which are manufactured in the UK to provide total cladding timber solutions for any form of architectural and construction project.

Eurobond Rainspan™ Structural Support Panel

Application

The Rainspan™ system is fully tested and has been developed as a robust, interlocking, insulated panel, with long fire-rated spans of up to 7.5 metres and an ease of installation that creates a quick, weathertight building envelope. The Rainspan™ system provides the perfect structural support for the NORclad® façade. The system blends together the benefits of a composite panel and a rainscreen application to provide greater freedom for architectural expression. The panel is finished with an external flat profile creating an 'in-plane' surface to receive the façade carrier.

Standard Specification

- Module width of 1200mm
- Rainspan™ panels have an external facing of 0.7 mm gauge steel, finished in standard white RAL9010 from the Tata Colorcoat Prisma® range
- Flat external face providing a flat 'in-plane' fixing surface
- A rear air sealed panel system offering exceptionally low air permeability of <1m³/m²/hr

NOTE: Other specifications/variations are available upon request.

Rainspan™ System Information

Product Tolerances

Length	± 10 mm	Thickness	± 2 mm
Width	± 5 mm	Joint Gap	± 2 mm

Dimensions and Weight

Core Thickness (mm)	125	150	175
Weight (kg/m² – 0.7/0.7mm)	27	30.5	34

Acoustic Performance

Core Thickness (mm)	125	150	175
Weighted Sound Reduction Index Rw (dB)	31.4	32.76	33.1

Thermal Performance

Core Thickness (mm)	125	150	175
U Value (W/m²K)	0.33	0.27	0.23

Fire Performance

Thickness (mm)		125	150	175
Fire Resistance (minutes)	Integrity	120	120	120
	Insulation	120	120	120
Max. Unsupported Length (m)	LPS 1208	7.5	7.5	7.5
	BS 476 Pt22	10.5	11.5	12.0

