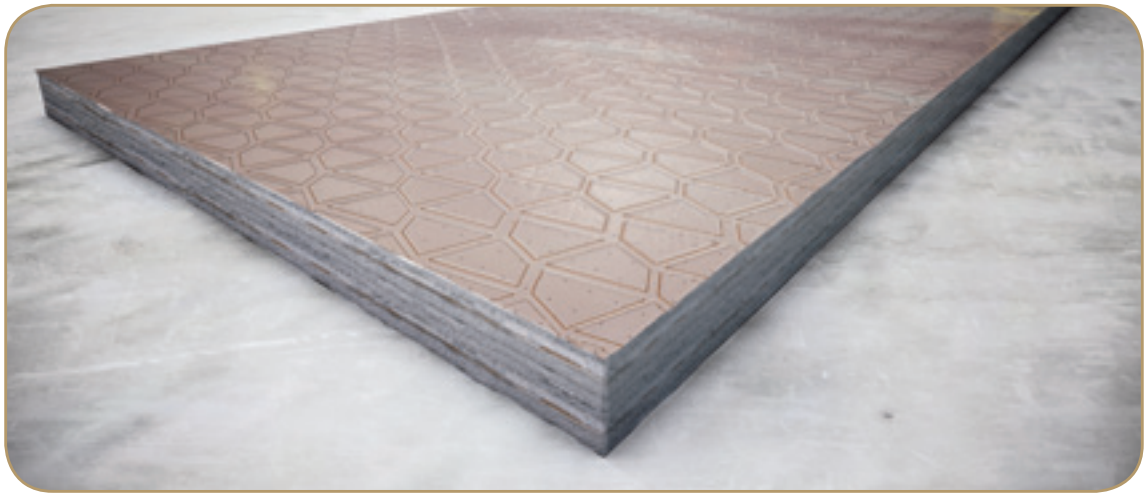
Boost'R Hybrid

= VAPOUR RESISTANCE Z = 0.55MN.s/g + R=2.4 m².K/W EN 16012 WITH 2 AIR VOIDS



BOOST'R HYBRID is a reflective breathable membrane with a built-in thermal performance for use on the cold side of the building fabric in roofs and walls.

WALLS

ROOFS

BOOST'R HYBRID provides dual properties within a single product : A breathable membrane and insulation, allowing a reduction in the number of installation steps whilst reducing the thickness of the main insulation to achieve the same required U-Value. It can be used in conjunction with any type of insulation.

BOOST'R HYBRID is available in rolls of 10 m^2 (1600 mm wide), 35 mm thick.

DUAL PERFORMANCE

VAPOUR RESISTANCE Z = 0.55MN.s/g

With a **Z-value = 0,55 MNs/g**, Sd =0,11 m, BOOST'R HYBRID allows for water vapour diffusion through the fabric of the building, thus preventing any risk of condensation.

AIRTIGHT

With an air permeability value of <0.030 m^3/m^2xhx50Pa), BOOST'R HYBRID acts as a barrier against air leakage and thermal convection.

R=2.4 m².K/W EN 16012 WITH 2 AIR VOIDS

Thanks to its sandwich assembly, its 35 mm thickness and its two low emissivity external faces (**inner side ε = 0,05, outer side ε = 0.31**), BOOST'R HYBRID achieves a declared core R-value of **1,35 m².K/W** (with no air gaps – in direct contact) and an R value of **2,40 m².K/W** with 2 air voids of 20 mm (horizontal flow), as certified by VTT.

Combined with a second layer of insulation, BOOST'R HYBRID helps to keep the fabric element to a minimum thickness and saves space !

DUAL TESTING

BOOST'R HYBRID has been tested **in a laboratory** according to the following EN Standards:

- **EN 13859-1/2** : *« Flexible sheets for waterproofing. Definitions and characteristics of underlays. Part 1 : Underlays for discontinuous roofing. Part 2 : Underlays for walls ».*
- **EN 16012** : *« Thermal insulation for buildings. Reflective insulation product. Determination of the declared thermal performance ».*

CE
COMPLIES WITH
EN 13859-1 AND
EN 13859-2

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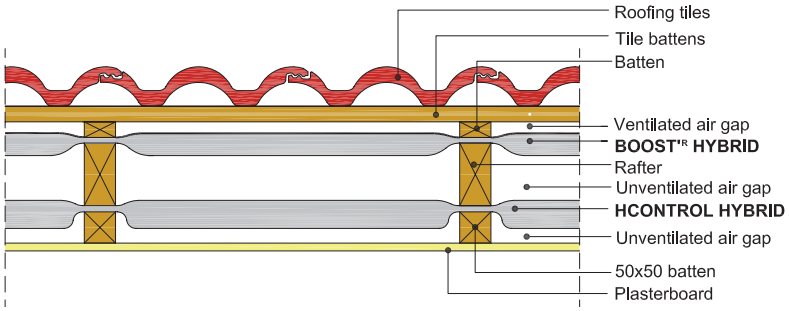
BOOST'R HYBRID has been tested **on site** by the Glasgow Caledonian University according to:

- **ISO 9869** *« Thermal insulation - Building elements - In-situ measurement of thermal resistance and thermal transmittance - Part 1 : Heat flowmeter method »*

GCU Glasgow Caledonian University

The following construction was used for thermal testing carried out on site in roofs :



In roofs once installed : The R Value of BOOST'R HYBRID with adjacent air cavities was measured at **2,17 m².K/W.**
The slight difference from the performance in a laboratory is due to the fact that BOOST'R HYBRID has been measured with a ventilated air gap on the cold side, which is not taken into account in the laboratory tests.

FULLY CERTIFIED

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BH TRADA
Construction Products Scheme
Certificate Number CPS-014

BOOST'R HYBRID is fully certified by two accredited bodies.

BOOST'R HYBRID complies with BS5250 – Code of Practice for Control of Condensation in Buildings and helps to meet the requirements of Approved Document L 2010 (England & Wales) and Section 6 (Scotland)

USER FRIENDLY

- BOOST'R HYBRID is **classified A+** for internal air quality according to ISO 16000
- BOOST'R HYBRID is clean - does not generate dust or fibre

QUICK AND EASY TO INSTALL

BOOST'R HYBRID can be stapled or nailed

BOOST'R HYBRID can be fitted to rafters with a maximum span of 600 mm

BOOST'R HYBRID can be cut with a cutter

The flexible properties of BOOST'R HYBRID enable fitting to any uneven surfaces, allowing a continual insulation, thus offering a high quality installation without air leakages.

BOOST'R HYBRID PROPERTIES

PRODUCT

PROPERTY	TEST METHOD	DECLARED VALUE
Thickness	EN 1849-2 under 50 Pa load	35mm
Weight/m^2	EN 1849-2	650 g/m^2
Length	EN 1848-2	6,7m
Width		1,5m
DECLARED THERMAL PERFORMANCE (OUTER/INNER SIDE)		
R Value of Boost'r Hybrid + 2 air cavities after ageing	EN 16012	**2,40 m^2.K/W**
R value of material		**1,35 m^2.K/W**
Declared Emissivity (outer / inner side) after ageing		**0,31/0,05**
TENSILE STRENGTH		
Longitudinal direction	EN 12311-1 & EN 13859-1/2 annex A	>300 N/50mm
Transversal direction		>200 N/50mm
Elongation (Longitudinal)		>20%
Elongation (Transverse)		>10%
RESISTANCE TO TEARING, NAIL SHANK		
Longitudinal direction	EN 12310-1 & EN 13859-1/2 annex B	>150 N
Transversal direction		>150 N
WATER VAPOUR TRANSMISSION		
Vapour Resistance (Z)	EN 12572 set C	0,55 MNs/g
Diffusion eq.air layer thickness (Sd)		0,11 m
WATERTIGHTNESS	EN 1928 method A	Watertight, W1
AIR PERMEABILITY	EN 12114 (50Pa)	< 0,030 $m^3/(m^2$ x h x 50Pa)
FLEXIBILITY AT LOW T	EN 1109, 30°C/ ø30mm	-30/30 °C/ ø30mm
DIMENSIONAL STABILITY	EN 1107, +80°C/6h	< 1%
FIRE RESISTANCE		Class F
AFTER AGEING		
TENSILE STRENGTH		
Longitudinal direction	EN 12311-1 & EN 13859-1/2 annex A	545 N/50mm
Transversal direction		250 N/50mm
Elongation (Longitudinal)		32%
Elongation (Transverse)		19%
WATERTIGHTNESS	EN 1928 method A	Watertight, W1

All these values are certified by VTT

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