



















HControl Hybrid









Use on the warm side of any insulation material, behind the internal finish in roofs, walls and ceilings.

HCONTROL HYBRID is a thin multifoil insulation product with a built-in vapour control function and an unrivalled thermal performance.

HCONTROL HYBRID provides dual performance within a single product: a vapour control layer 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.



FLEXIBLE



VAPOUR



2 AIR VOIDS OF 20MM



45MM +/-5MM



AIRTIGHT



LIGHT



AREA



SPACE SAVING



NO IRRITATING FIBRES

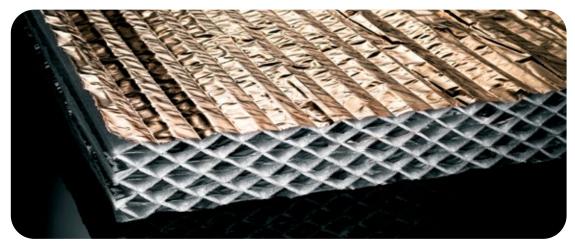






PROPERTY	TEST METHOD	DECLARED VALUE		
Thickness	EN 823	45mm +/- 5mm		
Weight/m ²	EN 1849-2	880 g/m ²		
Length	EN 1848-2	6.25m		
Width		1.6m		
DECLARED THERMAL PERFORMANCE				
R Value of HCONTROL HYBRID + 2 air cavities after ageing	EN 16012	Horizontal Heat Flow 3.20 m ² K/W Upward Vertical Heat Flow 2.80 m ² K/W		
Core R-value		1.90 m ² K/W		
Declared Emissivity after ageing		0.06		
TENSILE STRENGTH				
Longitudinal direction		>300 N/50mm		
Transversal direction	EN 12311-1 & EN 13859-1 Annex C	>200 N/50mm		
Elongation (Longitudinal)		>20%		
Elongation (Transversal)		>5%		
RESISTANCE TO TEARING, NAIL SHANK				
Longitudinal direction	EN 12310-1 & EN 13589-1 Annex B	>150 N		
Transversal direction		>150 N		
JOINT STRENGTH	EN 12317 - 2	>50 N/50mm		
WATER VAPOUR TRANSMISSION				
Permeability (W)		7.51 10 ⁻¹³ Kg/m ² .s.Pa		
Vapour Resistance (Z)	EN 1931 set C	≥1000 MNs/g		
Diffusion eq.air layer thickness (Sd)		≥200m		
WATERTIGHTNESS	EN 1928 Method A	Watertight (W1) to 2 kPa		
AIR PERMEABILITY	EN 12114	Airtight		
DURABILITY AFTER AGEING	EN 13984	Test sucessful		
REACTION TO FIRE	NPD (No performance determined)			

Hybris









DECLARED VALUE

50 to 185mm

9.5 kg/m³

1200mm

1145mm

0.033 W/mK

to 5.60 m²K/W

(185mm)

0.06/0.10

>45 kPa

>45 kPa

>150 N

>150 N

450 MNs/g

Watertight, W1

>90m

Airtight

<2,3 E-12 Kg/m².s.Pa

1.50 m²K/W (50mm)

TEST METHOD

EN 823

EN 1602

EN 822

EN 16012

EN 12310-1 part 1

EN 1931

EN 1928

Method A

EN 12114

Class F

2300 J/kg K

Use on timber frame or masonry walls, pitched roofs, ceilings and suspended timber floors.

HYBRIS is an innovative and unique insulation product providing an excellent thermal performance.

The only reflective insulation in Europe to achieve Bronze Cradle to Cradle certification for its sustainability credentials.

HYBRIS is a reflective insulation product designed with a unique honeycomb structure made of shaped polyethylene foams glued to aluminium coated polyethylene foils. The large number of low emissivity cavities protect from dust and excessive air movement ensuring a high thermal performance. Moreover, the low emissivity external films provide additional thermal resistance, when associated with air cavities.

It can be used in conjunction with any type of insulation.







THERMAL PERFORMANCE

HIGH PERFORMANCE AIR GAP

VAPOUR

BARRIER







THICKNESS 50 - 185MM

AIRTIGHT



ACOUSTIC PERFORMANCE

LIGHT

NO IRRITATING **FIBRES**















PROPERTY

DECLARED THERMAL PERFORMANCE

TENSILE STRENGTH (BEFORE AND AFTER AGEING)

RESISTANCE TO TEARING, NAIL SHANK (BEFORE AND AFTER AGEING)

Declared core thermal resistance

Thermal conductivity $\lambda_{\rm D}$

Emissivity (inner/outer)

Longitudinal direction

Transversal direction

Longitudinal direction

Transversal direction

Vapour Resistance (Z)

Diffusion eq.air laver

Permeability (W)

thickness (Sd)

WATERTIGHTNESS

AIR PERMEABILITY

REACTION TO FIRE

HEAT CAPACITY

WATER VAPOUR TRANSMISSION

after ageing

Thickness

Weight/m³

Length

Width

^{*} For more detailed product information on Hybris please refer to our Hybris leaflet.

Boost'R Hybrid







Use on the cold side of the building fabric in roofs, walls and suspended timber floors.

BOOST'R HYBRID is a thin multifoil insulation product with a built-in breather membrane function and an exceptional thermal performance.

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.



FLEXIBLE



VAPOUR RESISTANCE



2 AIR VOIDS OF 20MM



35MM +/-5MM



AIRTIGHT



LIGHT



AREA



SPACE SAVING



NO IRRITATING FIBRES







PROPERTY	TEST METHOD	DECLARED VALUE		
Thickness	EN 1849-2 under 50 Pa load	35mm +/- 5mm		
Weight/m ²	EN 1849-2	650 g/m ²		
Length	EN 1848-2	10.67m		
Width		1.5m		
DECLARED THERMAL PERFORMANCE (INNER/OUTER SIDE)				
R Value of BOOST'R HYBRID + 2 air cavities after ageing	FN 16012	Horizontal Heat Flow 2.40 m²K/W Upward Vertical Heat Flow 2.10 m²K/W		
Core R-Value	211 10012	1.35 m ² K/W		
Declared Emissivity (inner/outer side) after ageing		0.05 / 0.31		
TENSILE STRENGTH				
Longitudinal direction		>300 N/50mm		
Transversal direction	EN 12311-1 &	>150 N/50mm		
Elongation (Longitudinal)	EN 13859-1/2 Annex A	>15%		
Elongation (Transversal)		>10%		
RESISTANCE TO TEARING, NAIL SHANK				
Longitudinal direction	EN 12310-1 & EN	>150 N		
Transversal direction	13859-1/2 Annex B	>150 N		
WATER VAPOUR TRANSMISSION				
Vapour Resistance (Z)		0,55 MNs/g		
Vapour Resistance of external layer	EN 12572 set C	0.25 MNs/g		
Diffusion eq.air layer thickness (Sd)		≤ 0,11m		
WATERTIGHTNESS	EN 1928 Method A	Watertight, W1		
AIR PERMEABILITY	EN 12114	< 0.030 m³/ (m² x h x 50Pa)		
FLEXIBILITY AT LOW TEMP	EN 1109	-30/30 °C/ ø30mm		
DIMENSIONAL STABILITY	EN 1107	+80°C/6h < 1%		
REACTION TO FIRE	NPD (No Performance Determined)			
WIND UPLIFT RESISTANCE	BS5534	Suitable for all wind zones (1-5) throughout the UK		

Boost'^R Hybrid Roof





Use on the cold side of the building fabric in roofs and suspended timber floors.

BOOST'R HYBRID ROOF is a multifoil insulation product with a built-in breather membrane function and an exceptional thermal performance.

BOOST'R HYBRID ROOF is a variant of BOOST'R HYBRID providing all the same features and benefits, but has been specifically designed for use on roofs. The water vapour permeable roofing underlay also acts as a wind barrier and has been created with a built in self-adhesive lap, facilitating the sealing of joints between adjacent sheets.

It can be used in conjunction with any type of insulation.



FLEXIBLE



VAPOUR RESISTANCE



AIRTIGHT



35MM +/-5MM



REFLECTIVE



NO IRRITATING FIBRES







PROPERTY	TEST METHOD	DECLARED VALUE		
Thickness	EN 1849-2 under 50 Pa load	35mm +/- 5mm		
Weight/m ²	EN 1849-2	650 g/m²		
Length	EN 1848-2	10m		
Width		1.5m		
DECLARED THERMAL PERFORMANCE (INNER/OUTER SIDE)				
R Value of BOOST'R HYBRID ROOF + 2 air cavities after ageing	EN 16012	Horizontal Heat Flow 2.15 m²K/W		
Core R-Value		1.35 m ² K/W		
Declared Emissivity (inner/outer side) after ageing		0.05 / 0.9		
TENSILE STRENGTH				
Longitudinal direction		>300 N/50mm		
Transversal direction	EN 12311-1 & EN 13859-1/2 Annex A	>150 N/50mm		
Elongation (Longitudinal)		>15%		
Elongation (Transversal)		>10%		
RESISTANCE TO TEARING, NAIL SH	ANK			
Longitudinal direction	EN 12310-1 &	>150 N		
Transversal direction	EN 13859-1/2 Annex B	>150 N		
WATER VAPOUR TRANSMISSION				
Vapour Resistance (Z)	EN 12572 set C	0.55 MNs/g		
Vapour Resistance of external layer		0.25 MNs/g		
Diffusion eq.air layer thickness (Sd)		≤ 0.11m		
WATERTIGHTNESS	EN 1928 Method A	Watertight, W1		
AIR PERMEABILITY	EN 12114	< 0.030 m³/ (m² x h x 50Pa)		
FLEXIBILITY AT LOW TEMP	EN 1109	-30/30 °C/ ø30mm		
DIMENSIONAL STABILITY	EN 1107	+80°C/6h < 1%		
REACTION TO FIRE	NPD (No Performance Determined)			
WIND UPLIFT RESISTANCE	BS5534	Suitable for all wind zones (1-5) throughout the UK		

BENEFITS OF THE HYBRID PRODUCTS

DUAL PERFORMANCE



- Each Hybrid product combines insulation, air tightness, moisture resistance and reflective properties.
- ACTIS Hybrid products are resistant to air infiltration and create a barrier to thermal losses through convection.
- · All components are moisture resistant.
- They take advantage of radiation effects due to the very low emissivity of their external films.
- High thermal performance insulation suitable for all climate conditions, providing both summer & winter comfort.

DUAL TESTING, IN A LABORATORY & IN-SITU



Hybrid is a range of innovative insulation products that are fully tested both under laboratory and real conditions of use, so their performance is guaranteed.

- Laboratory testing according to EN 16012
- · Real life testing according to ISO 9869

A UNIQUE PATTERN

Easy to recognise, each hybrid product has a copper coloured film with a very low emissivity, as low as 0.05.

Their additional resistance value can be gained from the air voids facing these highly reflective films.

- The foils' low emissivity is protected from degrading by surface lacquering.
- The foils reflect **up to 95%** of the solar thermal radiation outside the building, contributing to summer comfort.

USE SEPARATELY OR AS A SYSTEM

All Hybrid products can be used separately or together to provide a total insulation system in roofs, walls and ceiling applications.

Together, they can achieve the best U-Value requirements with a minimal thickness compared to standard solutions.

For more detailed information on how our products work together as a system please refer to our Solutions & Systems brochure.

ACTIS Hybrid products, if used in accordance with certification, are accepted by major insurance providers such as NHBC.

NORTH WEST

Area Sales Manager 07800 612 937

WEST MIDLANDS

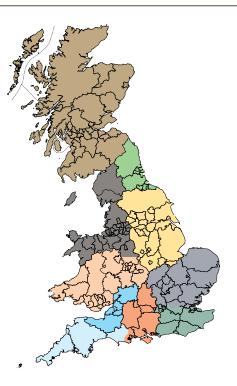
Area Sales Manager 07800 612 945

NORTH SOUTH WEST

Area Sales Manager 07946 025 874

SOUTH SOUTH WEST

Area Sales Manager 07800 612 940



SCOTLAND

Area Sales Manager 07506 579 234

NORTH EAST

Area Sales Manager 07506 579 234

EAST MIDLANDS

Area Sales Manager 07800 612 936

EAST ENGLAND

Area Sales Manager 07944 324 867

SOUTH EAST

Area Sales Manager 07506 579 232

SOUTH CENTRAL

Area Sales Manager 07800 612 935

U-VALUE SIMULATOR

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CPD

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