ACTIS REFLECTIVE INSULATION PRODUCTS

FOR WALLS, ROOFS, CEILINGS & FLOORS

HYBRID RANGE











TOMORROW'S INSULATION TODAY

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



AIRTIGHT

SPACE SAVING



VAPOUR BARRIER



45MM +/-5MM



ARFA





R=3.20 m².K/W







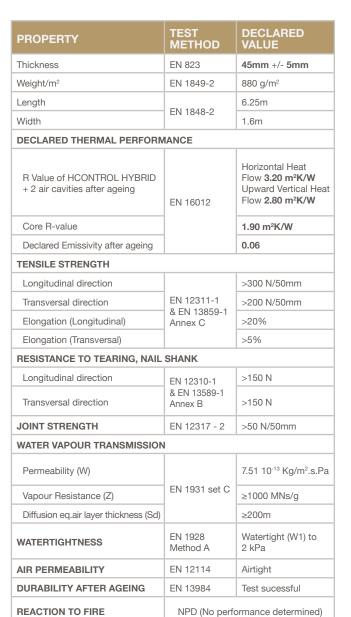


FIBRES





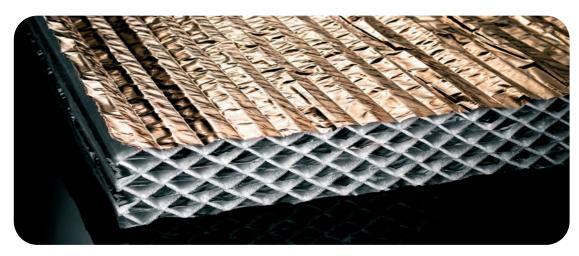








Hybris









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



THICKNESS 50 - 185MM



ACOUSTIC PERFORMANCE

UK



LIGHT

🔅 eurofins





NO IRRITATING



AIR GAP

BARRIER



FIBRES



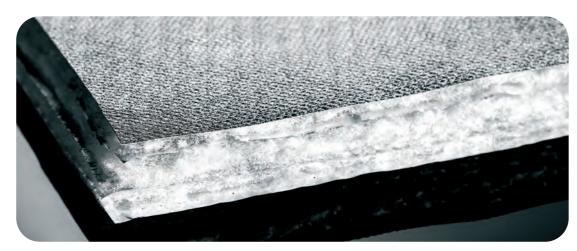
REACTION TO FIRE

DECLARED VALUE TEST METHOD PROPERTY Thickness EN 823 50 to 185mm Weight/m³ EN 1602 7.2 kg/m³ Length 1200mm EN 822 Width 1145mm DECLARED THERMAL PERFORMANCE Thermal conductivity λ_{n} 0.033 W/mK 1.50 m²K/W (50mm) Declared core thermal resistance to 5.65 m²K/W EN 16012 (185mm) Emissivity (inner/outer) 0.06/0.10 after ageing TENSILE STRENGTH (BEFORE AND AFTER AGEING) >45 kPa Longitudinal direction EN 1608 Transversal direction >30 kPa **RESISTANCE TO TEARING, NAIL SHANK** (BEFORE AND AFTER AGEING) Longitudinal direction >150 N EN 12310-1 part 1 Transversal direction >150 N WATER VAPOUR TRANSMISSION Permeability (W) <2,3 E-12 Kg/m².s.Pa Vapour Resistance (Z) 450 MNs/g EN 1931 Diffusion eq.air laver >90m thickness (Sd) EN 1928 WATERTIGHTNESS Watertight, W1 Method A AIR PERMEABILITY EN 12114 Airtight HEAT CAPACITY 2065 J/kg K

Class F

* 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.



FI FXIBI F



VAPOUR RESISTANCE

\$ \$ \$ \$

XXXXX

5555

Z = 0.55MN.s/q



35MM +/-5MM



AREA





SPACE SAVING



NO IRRITATING FIBRES

R=2.4

m².K/W

2 AIR VOIDS

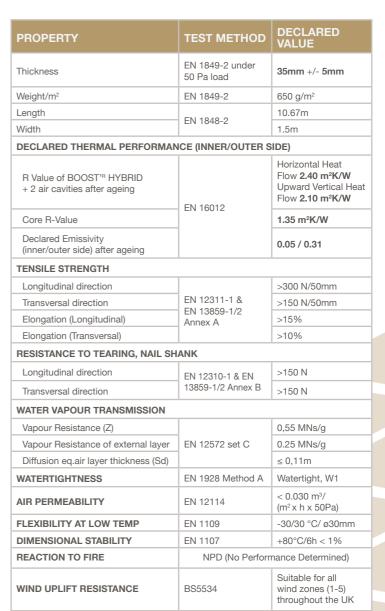
OF 20MM











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



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/m ²
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	EN 12311-1 & EN 13859-1/2 Annex A	>300 N/50mm
Transversal direction		>150 N/50mm
Elongation (Longitudinal)		>15%
Elongation (Transversal)		>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
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



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.

- SCOTLAND Area Sales Manager 07506 579 234 NORTH EAST Area Sales Manager 07506 579 234 EAST MIDLANDS NORTH WEST Area Sales Manager Area Sales Manager 07800 612 937 07800 612 936 WEST MIDLANDS EAST ENGLAND Area Sales Manager Area Sales Manager 07800 612 945 07944 324 867 NORTH SOUTH WEST SOUTH EAST Area Sales Manager Area Sales Manager 07946 025 874 07506 579 232 SOUTH SOUTH WEST SOUTH CENTRAL Area Sales Manager Area Sales Manager 07800 612 940 07800 612 935 ACTIS INSULATION LTD. **U-VALUE SIMULATOR FOLLOW US** Unit 2a Cornbrash Park - Bumpers Way **Bumpers Farm Industrial Estate** Discover a unique tool to get a quick LinkedIn page Chippenham - Wiltshire - SN14 6RA simulation of your project by visiting Th **ACTIS Insulation**
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Please visit www.insulation-actis.com for more details.

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