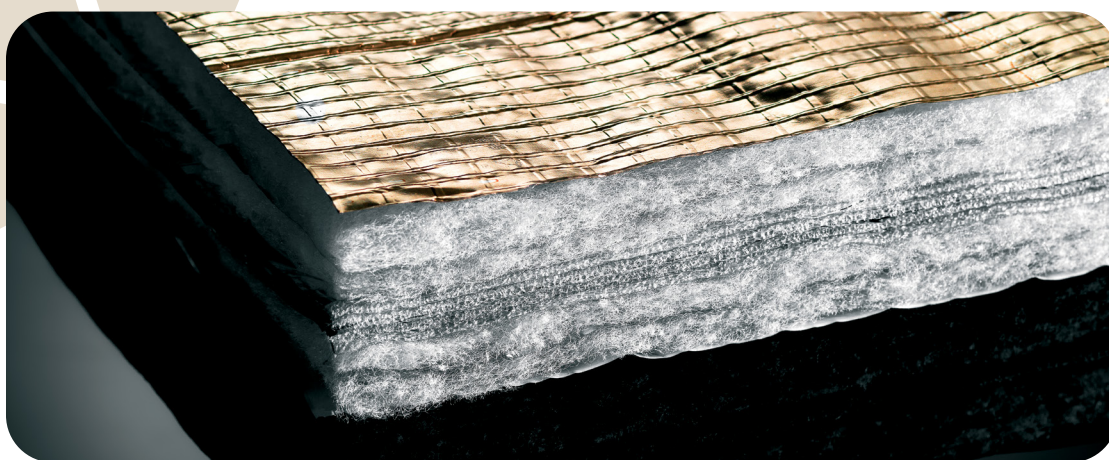


# HControl Hybrid



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.

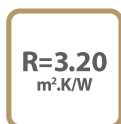
It can be used in conjunction with any type of insulation.



FLEXIBLE



VAPOUR BARRIER



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