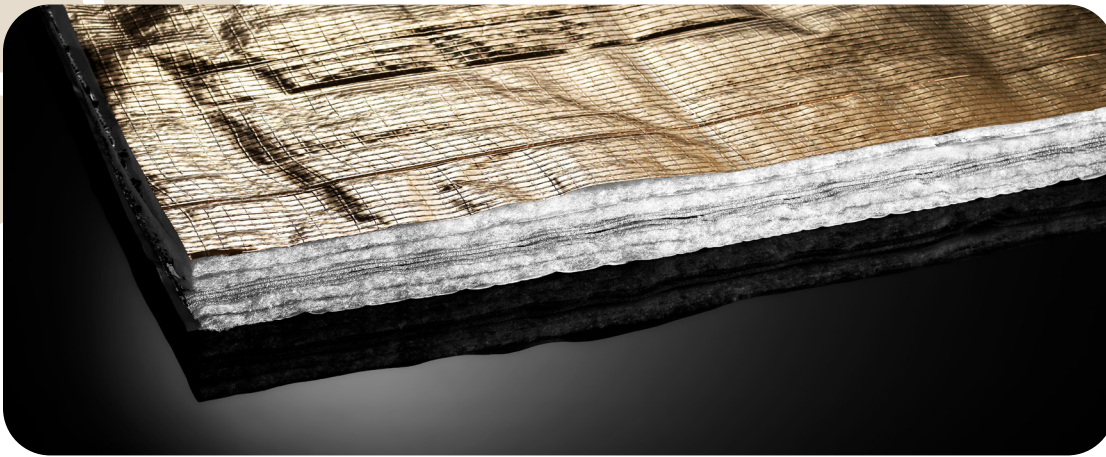


# HControl Hybrid



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

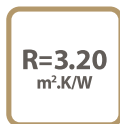
**HCONTROL HYBRID is a thin multifoil insulation product with a built-in vapour control function and an unrivalled thermal performance.**

**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.



VAPOUR BARRIER



2 AIR VOIDS OF 20MM



45MM +/-5MM



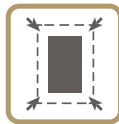
AIRTIGHT



LIGHT



AREA



SPACE SAVING



DUAL PERFORMANCE



| 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><br>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) |   |