# Hybris

WALLS

CEILINGS

ROOFS

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

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

HYBRIS is a reflective insulation product based on a honeycomb structure made of shaped polyethylene foams glued to aluminium coated polyethylene foils.

Its high thermal performance is provided by a special structure composed of a large number of low emissivity cavities, protected from dust and excessive air movement. Moreover, the low emissivity external films provide additional thermal resistance, when associated with air cavities.

EOTA ATE N°13/0121

$\lambda_D$33 THERMAL PERFORMANCE

HIGH PERFORMANCE AIR GAP

THICKNESS 50 - 205 MM

AIRTIGHT

VAPOUR BARRIER

ACOUSTIC PERFORMANCE

LIGHT

2 in 1 DUAL PERFORMANCE

registered details LABC

LABSS Registered Details

| PROPERTY | TEST METHOD | DECLARED VALUE |
|---|---|---|
| Thickness | EN 823 | **50** to **205mm** |
| Weight/m³ | EN 1602 | 9.5 kg/m³ |
| Length | EN 822 | 1200mm |
| Width | | 1145mm |
| **DECLARED THERMAL PERFORMANCE** | | |
| Thermal conductivity $\lambda_D$ | EN 16012 | **0.033 W/m.K** |
| Declared core thermal resistance | | **1.50 m2.K/W (50mm) to 6.20 m2.K/W (205mm)** |
| Emissivity (inner/outer) after ageing | | **0.06/0.10** |
| **TENSILE STRENGTH (BEFORE AND AFTER AGEING)** | | |
| Longitudinal direction | EN 1608 | >45 kPa |
| Transversal direction | | >45 kPa |
| **RESISTANCE TO TEARING, NAIL SHANK (BEFORE AND AFTER AGEING)** | | |
| Longitudinal direction | EN 12310-1 part 1 | >150 N |
| Transversal direction | | >150 N |
| **WATER VAPOUR TRANSMISSION** | | |
| Permeability (W) | EN 1931 | <2,3 E-12 Kg/m².s.Pa |
| Vapour Resistance (Z) | | 450 MNs/g |
| Diffusion eq.air layer thickness (Sd) | | >90m |
| **WATERTIGHTNESS** | EN 1928 Method A | Watertight, W1 |
| **AIR PERMEABILITY** | EN 12114 | Airtight |
| **HEAT CAPACITY** | 2300 JK/Kg.k | |
| **REACTION TO FIRE** | NPD (No performance determined) | |