

Thermafleece CosyWool Slab

Technical Data Sheet



| Thermal | |
|------------------------|--|
| Thermal Conductivity | 0.038 Wm ⁻¹ K ⁻¹ |
| Density | 20 kg/m ³ |
| Specific Heat Capacity | 1800 Jkg ⁻¹ K ⁻¹ |
| Vapour Resistivity | 9 MNsg ⁻¹ m ⁻¹ |

| Material Protection | |
|----------------------------------|------|
| Mould Resistance CUAP 2002-01-25 | Pass |
| Moth/Beetle Proofing ISO 3998 | Pass |

| Fire | |
|---|-------------|
| BS 5803-4, Flammability & Smoulder Resistance | Pass |
| EN11925-2, Reaction to Fire | Pass |
| Fire Classification | EuroClass E |

| Physical | |
|--------------------------------------|------|
| Recoverability and thickness, EN 823 | Pass |
| Dimensional stability to EN 1604 | Pass |

| Hygrothermal | | | | | |
|--|---|--------|--------|---------|--------|
| Porosity | 33.2% | | | | |
| 'Surface' water absorption coefficient (kg/m ² . h ^{0.5}) | 0.82 (15.7%) | | | | |
| 'Edge' water absorption coefficient (kg/m ² . h ^{0.5}) | 1.09 (5.5%) | | | | |
| Water Vapour Resistance Factor, μ | (-) Dry: 1.98 (5.8%) (-) Wet: 0.59 (7.8%) | | | | |
| Vapour sorption: | | | | | |
| Relative Humidity | | | | | |
| Sorption | 0%w/w | 30%w/w | 50%w/w | 75%w/w | 95%w/w |
| Moisture Content | 0.00% | 4.01% | 6.57% | 9.75% | 13.97% |
| Deviation | | (7.4%) | (9.4%) | (13.6%) | (5.0%) |
| Relative Humidity | | | | | |
| Desorption | 95%w/w | 75%w/w | 50%w/w | 30%w/w | 0%w/w |
| Moisture Content | 13.97% | 10.94% | 8.16% | 6.52% | |
| Deviation | (5.0%) | (9.6%) | (6.6%) | (4.7%) | |

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| Environmental | |
|---------------------|--|
| GWP (A1-A3) total | 0.06 kgCO ₂ e R1 Functional Unit |
| GWP (A1-C4) total | 1.09 kgCO ₂ e R1 Functional Unit |
| GWP (A1-D) total | -0.34 kgCO ₂ e R1 Functional Unit |
| Recycled Content | 20% |
| Recyclable | Yes |
| EPD registration no | S-P-04468 |
| EPD valid to | 31/10/26 |

| Acoustic | | | | | | | |
|---|------------------------|----------------------------|------|------|------|------|------|
| Sound absorption | | NRC 1.05 @ 100mm | | | | | |
| Sound reduction | | R _w 40dB @ 75mm | | | | | |
| Can be used to achieve airborne sound reduction of R _w | | 40dB | | | | | |
| Freq HZ | | 125 | 250 | 500 | 1000 | 2000 | 4000 |
| Cosywool 50mm | Absorption Coefficient | 0.2 | 0.4 | 0.65 | 0.75 | 0.85 | 0.95 |
| Cosywool 75mm | | 0.25 | 0.6 | 0.85 | 0.9 | 0.95 | 1 |
| Cosywool 100mm | | 0.45 | 0.85 | 1 | 1 | 1 | 1 |
| Cosywool 140mm | | 0.6 | 0.9 | 0.95 | 1 | 1 | 1 |

| Air Quality | |
|------------------------|---|
| TVOC | 9 µg/m ³ @ 3 days, n.d. @ 28 days |
| Carcinogenic compounds | n.d. @ 3days, n.d. @ 28days |
| Formaldehyde | <2 µg/m ³ @ 3 days, <2 µg/m ³ @ 28 days |

| Quality | |
|-----------------------------------|--|
| Manufactured to ISO 9001 & 14001. | |

| Dimensions | |
|---------------------------|---------------------|
| Thicknesses (+20mm/-0mm) | 50, 75, 100, 140 mm |
| Widths (+20mm/-10mm) | 370 & 570 mm |
| Slab Length (+25mm/-25mm) | 1200 mm, all sizes |