

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
Manufactured to ISO 14001	Certificate No: 23/3478

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	Certificate No: 23/3477

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