

# Thermafleece CosyWool Slab

## Technical Data Sheet



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

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 <sup>2</sup> . h <sup>0.5</sup> )	0.82 (15.7%)					
'Edge' water absorption coefficient (kg/m <sup>2</sup> . h <sup>0.5</sup> )	1.09 (5.5%)					
Water Vapour Resistance Factor, $\mu$	(-) 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 <sub>2</sub> e R1 Functional Unit
GWP (A1-C4) total	1.09 kgCO <sub>2</sub> e R1 Functional Unit
GWP (A1-D) total	-0.34 kgCO <sub>2</sub> 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		Rw 40dB @ 75mm					
Can be used to achieve airborne sound reduction of R <sub>w</sub>		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 <sup>3</sup> @ 3 days, n.d. @ 28 days
Carcinogenic compounds	n.d. @ 3days, n.d. @ 28days
Formaldehyde	<2 µg/m <sup>3</sup> @ 3 days, <2 µg/m <sup>3</sup> @ 28 days

Quality	
Manufactured to ISO 9001 & 14001.	

Dimensions	
Thicknesses (+20mm/-0mm)	50, 75, 100, 140 mm
Widths (+20mm/-10mm)	390 & 590 mm
Slab Length (+25mm/-25mm)	1200 mm, all sizes