

# Thermafleece UltraWool

## Technical Data Sheet



Thermal	
Thermal Conductivity	0.035 Wm <sup>-1</sup> K <sup>-1</sup>
Density	31 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	23.8 %				
'Surface' water absorption coefficient (kg/m <sup>2</sup> . h <sup>0.5</sup> )	1.49 (7.7%)				
'Edge' water absorption coefficient (kg/m <sup>2</sup> . h <sup>0.5</sup> )	0.79 (6.0%)				
Water Vapour Resistance Factor, μ	(-) Dry: 1.99 (5.8%) (-) Wet: 0.89 (7.7%)				
Vapour sorption:					
Relative Humidity					
Sorption	0%w/w	30%w/w	50%w/w	75%w/w	95%w/w
Moisture Content	0.00%	5.20%	7.91%	11.05%	16.74%
Deviation		(4.7%)	(7.9%)	(6.3%)	(11.0%)
Relative Humidity					
Desorption	95%w/w	75%w/w	50%w/w	30%w/w	0%w/w
Moisture Content	16.74%	11.10%	9.42%	7.95%	0.00%
Deviation	(11.0%)	(8.8%)	(5.2%)	(8.5%)	

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Environmental	
GWP (A1-A3) total	0.05 kgCO <sub>2</sub> e R1 Functional Unit
GWP (A1-C4)	1.44 kgCO <sub>2</sub> e R1 Functional Unit
GWP (A1-D)	-0.50 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
Manufactured to ISO 14001	Certificate No: 23/3478

Acoustic							
Sound absorption		NRC 1.10 @ 90mm					
Sound reduction		R <sub>w</sub> 41dB -54dB @ 70mm					
Can be used to achieve airborne sound reduction of R <sub>w</sub>		41dB					
Freq HZ		125	250	500	1000	2000	4000
UltraWool 50mm	Absorption Coefficient	0.2	0.55	0.85	0.9	1	1
UltraWool 90mm		0.5	1	1	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	Certificate No: 23/3477

Dimensions	
Thicknesses (+20mm/-0mm)	50,70,90 mm
Widths (+20mm/-0mm)	390 & 590 mm
Slab Length (+25mm/-25mm)	1200 mm, all sizes