Technical Data Sheet

Thermal	
Thermal Conductivity	0.035 $Wm^{-1}K^{-1}$
Density	31 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			23.8%		
'Surface' water absorption coefficient ($kg/m^2 . h^{0.5}$)			1.49 (7.7%)		
'Edge' water absorption coefficient ($kg/m^2 . h^{0.5}$)			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	16.4%	11.10%	9.42%	7.95%	0.00%

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Technical Data Sheet

Environmental	
GWP (A1-A3) total	0.05 $kgCO_{2e}$ R1 Functional Unit
GWP (A1-C4) total	1.44 $kgCO_{2e}$ R1 Functional Unit
GWP (A1-D) total	-0.50 $kgCO_{2e}$ 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			Rw 41dB - 54dB @ 70mm				
Can be used to achieve airborne sound reduction of R_W			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/m³ @ 3 days, n.d. @ 28 days
Carcinogenic compounds	n.d. @ 3 days, n.d. @ 28 days
Formaldehyde	<2 µg/m³ @ 3 days, <2 µg/m³ @ 28 days

Quality	
Manufactured to ISO 9001	Certificate No: 23/3477
Dimensional stability to EN 1604	Pass

Dimensions	
Thicknesses (+20mm/-0mm)	50, 70, 90 mm
Widths (+20mm/-10mm)	390 & 590 mm
Slab Lengths (+25mm /-25mm)	12.00 mm, all sizes