

VIPALL is a vacuum insulation panel

Name of product	VIP4ALL		
Function of product	thermal insulation with minimum space		
Form	panel		
Raw Material lightweight siliceous based mineral powder			
	I	Properties	<u></u>
Property	Unit	Value al/physical proper	Test methods/standardisation
Dully deposits		1	EN 1602
Bulk density Composition of materials	kg/m ³	250-300 siliceous minera	
Composition of materials		sinceous minera	powder
Structures and construction			
Dimensions of product	m	0,5x0,5x0,04	
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Mechanical properties			
Compressive strength	N/mm ²	300	at 10% compression
Flexural strength	N/mm ²		
Tensile strength	N/mm ²		
Thermal properties			
Thermal conductivity	W/(m·K)	0.006	initial value at 40 mm thickness
	W/(m·K)	0.01	value including aging, edge losses at 40 mm thickness
	W/(m·K)	0.05	ventilated
Specific heat capacity			
Liveriality at a little	Hygro	thermal propertie	es T
Humidity stability Water vapour diffusion resistance factor		0-60%	
Moisture buffer value	kg/(m²·%RH)		
Water vapour permeability	kg/(m·s·Pa)		
water vapour permeability	kg/(III·S·Fa)		
Acoustic properties			
Sound absorption coefficient	%	n/a	
Sound reduction index	dB	n/a	
Fire Safety			
Reaction to fire		inflamable (E)	EN ISO 11925-2
Resistance to fire	Minutes		
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Environmental properties			
Embodied energy (% renewable) Embodied energy (% renewable)	MJ/kg MJ/FU*		*FU= 1m² of insulation material for R=1 m²K/W
GHG emissions	kg CO ₂ eq		10- III OI IIISUIGUOII IIIGUEIIGI IOI N-I III N/VV
			*FILE 1m2 of inculation material for D. 4 ==21/A4/
GHG emissions	kg CO ₂ eq/FU*		*FU= 1m² of insulation material for R=1 m²K/W
TVOC (SVOC)	μg/m ³		
Radon	Bq/m ³		
Photocatalytic capacity			