

GRAMITHERM®

Grass Insulating Swiss Technology



Negative Carbon Footprint

1kg of Gramitherm absorbs 1,5kg CO₂-eq



Indoor air quality +++



Circular economy example



Efficiency against cold / Efficiency against heat



Humidity regulator / persistent insulation



Noise absorption / confort-calm

Sustainable thermal insulation made with grass for a natural confort

Building, renovation, constructive system
Internal Thermal Insulation
External Thermal Insulation



Gramitherm Europe SA

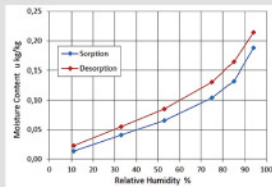

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TECHNICAL DATA

(European Technical Agreement N.ETA-21/0260)

Product composition	72% grass fibers, 20% recycled jute fibers, 8% synthetic binder fibers	
Density	40kg (+/-5) kg/m ³	
Thermal conductivity λ	0.041 W/m.K	
Phase shift time	9h (240mm thickness)	
Heat transfer coefficient U	0,27 W/m.K (150mm thickness)	
Specific heat capacity	1500J/kg.K	
Vapor diffusion resistance μ	1	
Moisture behaviour	Absorbs and desorbs moisture 4,6kg/m ² for 100mm thickness batt	
Tensile strength parallel to faces	>20kPa	
Dimensional stability	Length change +/-2% and maximum T2 class for the thickness	
Resistance against fungal attack	Level 1	
Fire behaviour	Euroclass E	
VOC emission	A+	
Biobased label	88% biobased mass (sourcing <300km manufacturer) (EN16785-2:2018)	
Hygroscopic absorption property	EN ISO 12571:2013 (ECOLABOR : N° ECO-P21007-20021)	 <p style="text-align: right;">À 23°C</p>
Environmental balance		FDES available on INIES/AFNOR basis and on our website www.gramitherm.eu

TECHNICAL INSULATION (Batts dimension : 1200 x 600mm)

Thickness mm	45	60	80	100	120	140	150	160	180	200	220	240
R (Thermal resistance)	1,11	1,48	1,98	2,47	2,96	3,46	3,70	3,95	4,44	4,94	5,43	5,93
U (Heat transmission)	0,90	0,67	0,50	0,40	0,34	0,29	0,27	0,25	0,22	0,20	0,18	0,17