



GRAMITHERM®

Grass Insulating Swiss  Technology



Negative Carbon Footprint

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



Indoor air quality +++



Circular economy example



Efficiency against cold / Efficiency against heat



Humidity regulation / Long-life insulation



Noise absorption / Comfort-calm

Sustainable thermal insulation made with grass for a natural comfort

Building, renovation, constructive system

Internal Thermal Insulation

External Thermal Insulation



Gramitherm Europe SA

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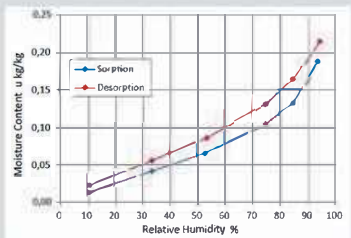

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TECHNICAL DATA

(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>at 23°C</p>
Environmental balance		FDES (EPD) 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