

GRAMITHERM®

Sustainable Grass Insulation



Negative Carbon Footprint

1 kg Gramitherm captures 1,5 kg 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



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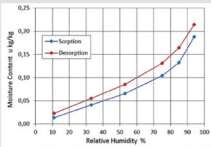
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TECHNICAL DATA

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

Product composition	72% grass fibers, 20% recycled jute fibers, 8% synthetic binder fibers		
Density	40kg (+/-5) kg/m³		
Thermal conductivity λ	0.041 W/m.K		
Phase shift time	9h (240mm thickness)		
Heat transfer coefficient U	0,27 W/m².K (150mm thickness)		
Specific heat capacity	1500J/kg.K		
Vapor diffusion resistance μ	1		
Moisture behaviour	Absorbs and desorbs moisture 4,6kg/m² 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)		
Sound absorption property	99% at 1000 Hertz (HEIG-VD-2015)		
Hygroscopic absorption property	EN ISO 12571:2013 (ECOLABOR : N° ECO-P21007-20021)		
Environmental balance	FDES available on INIES/AFNOR basis and on our website www.gramitherm.eu		



À 23°C

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