

GRAMITHERM®

Sustainable Grass Insulation



Negative Carbon Footprint

1 kg Gramitherm captures 1,5 kg CO₂-eq



Indoor air quality +++



Circular economy exemple and recyclable



+ 50 years



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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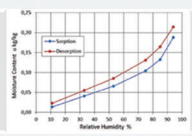


TECHNICAL DATA

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



Product composition	70% (+/- 5%) grass fibers, 20% (+/- 5%) recycled jute fibers, 10% (+/- 2%) synthetic binder fibers
Density	40kg (+/-5) kg/m ³
Thermal conductivity λ	0.041 W/m.K
Phase shift time	8h (240mm thickness)
Specific heat capacity	1560J/kg.K
Vapor diffusion resistance μ	2
Moisture behaviour	Absorbs and desorbs moisture
Tensile strength parallel to faces	>20kPa
Dimensional stability	Length change +/-2% and maximum T2 class for the thickness
Resistance against fungal attack	Resistant to fungal contamination at 28°C & 85% RH
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)



At 23°C

Environmental balance




CREATE | EVALUATE | INNOVATE

FDES available on INIES/AFNOR database on our website www.gramitherm.eu

B-EPD available on totem database and on our website www.gramitherm.eu

TECHNICAL INSULATION

(Batts dimension : 1200 x 600mm) Option : 1200 x 450mm

Thickness mm	45	60	70	80	90	100	120	140	150	160	180	200	220	240
R (Thermal resistance)	1,11	1,48	1,71	1,98	2,20	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	0,59	0,50	0,46	0,40	0,34	0,29	0,27	0,25	0,22	0,20	0,18	0,17