FICHA TECNICA

Version: Mayo 2021

CAÑAMO NATURAL

The insulation made of hemp and jute fibres

Description	THERMO HEMP COMBI JUTE									
European Technical Approval	ETA-05/0037									
Reference number	130701-041-01									
Components	58 % hempfibers, 29% jutefibers 9 % polymeric support fiber based on PET, 4 % soda									
Dimensional variations										
Length and Width (according to EN 822:2013)	length: ± 2 %, width: ± 1,5 %									
Thickness (according to EN 823:2013)	- 4 mm und + 10 mm / + 10 % (corresponds T3 according to EN 13171:2012, table 1)									
Bulk Density (according EN 1602:2013)	ca. 37kg/m³									
Tensile strength parallel to plate level (according to EN 1608:2013)	≥30 kPa									
Energy saving and heat insulation										
Thermal conductivity (according to EN 12667:2001) Declared thermal conductivity $\lambda_{D(23,50)}$	0,039 W/(m•K)									
Thermal conductivity for calculations									#	
[W/(m•K)]	0,043 0,042 0,039 0,039 0,039 0,039 0,039 0,039 0,039 0,039 0,039 0,042									
Conversion factors for the moisture	F _{m1} (dry to 23 °C/50 %) = 1,03									
COntent (conversations by DIN EN ISO 10456:2007+AC:2009)	F _{m2} (23 °C/50 % to 23 °C/80 %) = 1,08									
Security surchange (Germany-MVVTB)	γ = 1,03									
Specific thermal capacity c (according to EN 12667:2001)	2300 J/(kg•K)									
Water vapor diffusion resistance	1 to 2									
number μ (according to EN 12086:2013)										
Climate condition 23-50/93										
Water absorption (according to EN 1609:1996, Verfahren A)	≤4,2 kg/m²									
Soundproofing										
Declared level of airflow resistance (according to EN 29053:1993)	3,0 kPa•s/m2									
Sound absorption (according to EN ISO 354:2003 and EN ISO 11654:1997)	Nominal thickness [mm]	Practical levels of sound absorption α_P Evaluation after EN ISO 11654 Evaluation after EN ISO 11654								
		Octave center frequency [f/Hz]						Rated sound		
		125	250	500	1000	2000	4000	absorption level	Sound	
	40							αw	absorber class	
	40	0,2	0,45	0,70	0,85	0,90	0,95	0,7 (H)	C	
Fire waste stien	160	0,85	1,00	1,00	1,00	1,00	1,00	1,00	А	
Fire protection	_									
Fire class according to EN 13501-1	130 °C									
Maximum operating temperature	120 °C									
Hygiene, health and environmental protection										
Resistance against mold (according to EAD, appendix B)	Assessment level 0 (according to EN ISO 846:1997)									
Delivery form	Mat goods									
Standard dimensions	<u>Timber construction:</u> Thickness [mm]: 30, 40, 50, 60, 80, 100, 120, 140, 160, 180, 200, 220 Width [mm]: 580					Thic	Drywall construction: Thickness [mm]: 40, 60, 80 Width [mm] 625 mm			
Special dimensions	From 5 m ² of the same mats, we offer a custom-made width between 40 and 120 cm at no extra charge.									

FICHA TECNICA

Version: Mayo 2021

CAÑAMO NATURAL

The insulation made of hemp and jute fibres

Description:

- Insulation with the European Technical Approval
- Construction biologically and ecologically certified
- Flexible, mats or rolls made of durable, robust hemp fibres, not resistant to compression
- Produced with thermo bonding process and 100 % eco electricity

Characteristics:

- Best thermal insulation through low thermal conductivity
- Best heat protection in the summer through high heat storage capacity
- Good sound insulation properties
- Simple processing with the THERMO NATUR insulating knife or popular electric cutting tools with opposed serrated knives
- Suitable for DIY
- Humidity regulating due to its high moisture absorption capacity
- No nutrient base for rodents and insects

Fields of application:

- Insulation between the rafters
- Insulation on the rafters and between supporting rafters
- Insulation under the rafters
- Insulation of wooden joists in ceilings
- Insulation of the internal and external walls in timer frame, and post and beam constructions
- Insulation of metal studded constructions or partitions
- Internal dry-lining insulation in the refurbishment of masonry / solid constructions
- Exterior insulation behind cladding

General information:

- -THERMO HEMP COMBIJUTE is to be stored and processed in dry conditions
- Store upright
- To ensure the installation is achieved without gaps (joints) please oversize the insulation with an extra 10 30 mm relative to the void to be insulated
- Ensure a suitable sealed vapour check is applied and that the construction is sealed air tightly immediately after the insulation is installed
- The specified properties and performance can only be assumed if the product is installed according to the processing guidelines of the manufacturer and is protected against precipitation, weathering an moisture in the installed state as well as during transport, storage and installations