

THERMO

NATUR

HIGH PERFORMANCE INSULATING MATERIALS.

- THERMO HEMP Premium Plus
- THERMO HEMP Premium
- THERMO HEMP Combi Jute
- THERMO FAÇADE
- THERMO JUTE DUO
- THERMO FAÇADE
- Accessories and Service



INSULATING MATERIALS FOR INNOVATORS. HEALTHY AND NATURALLY ENERGY EFFICIENT.



YOUR AMBASSADORS FOR HEALTHY LIVING

- Yearning for healthy, sustainable and energysaving insulation?
- Wishing to increase the value of your property?
- **>** We have the perfect product for you.

This brochure covers the complete range of natural insulating materials from **THERMO NATUR**. In addition to the tried and tested **THERMO HEMP** products made of regrowing hemp plants, we can also offer you the attractively priced up-cycling product **THERMO JUTE**. Boasting a top lamda values and durability, this insulating material is also a trendsetter.

As **the market leader for natural insulating materials** in Europe, we preserve what is good whilst continuously developing the new. Manufacturing highly functional, resource-preserving and healthy insulating materials is our passion.

Kurt Hogh, THERMO NATUR GmbH & Co. KG and all our members of staff

ENVIRONMENTAL PROTECTION:

ENVIRON-MENIT

At the core of our work and our philosophy.

PRODUCTS WITH NO HARMFUL SUBSTANCES:

Man, animal, plant, soil, water, air and climate are all actively protected.

IN-HOUSE ENVIRONMENTAL PROTECTION:

Use of natural energy, optimised delivery routes, waste prevention.

CLOSED MATERIALS AND ECONOMIC CYCLE:

From natural fibres to processing up to recycling for the next generation of products.

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FUNDAMENTAL RIGHT TO HEALTHY LIVING:

Our products contain no borac acid, no formaldehyde and no isocyanate.

OUR PRODUCTS ARE NOT CARCINOGENIC.

EMPLOYEE HEALTH:

The materials we process are all harmless. Production dust is extracted.

THERMO HEMP IS natureplus[®] CERTIFIED:

The European seal of quality for climate protection, healthy living and sustainability.



COMBINING NATURE + SUCCESS:

Highly functional products, offering only benefits to man and the environment.

IDEAS PREVENT WASTE:

By recycling and up-cycling we save material costs and feed used materials back into the cycle.

NATURAL INSULATING AND BUILDING MATERIALS AS A STANDARD INTO THE FUTURE:

We aim at making our products indispensable during construction.

TOP PRICE/PERFORMANCE RATIO:

All our products offer **only advantages** at attractive prices.

MADE IN GERMANY

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HEALTHY AND NATURALLY ENERGY EFFICIENT

ADDED VALUE GUARANTEE

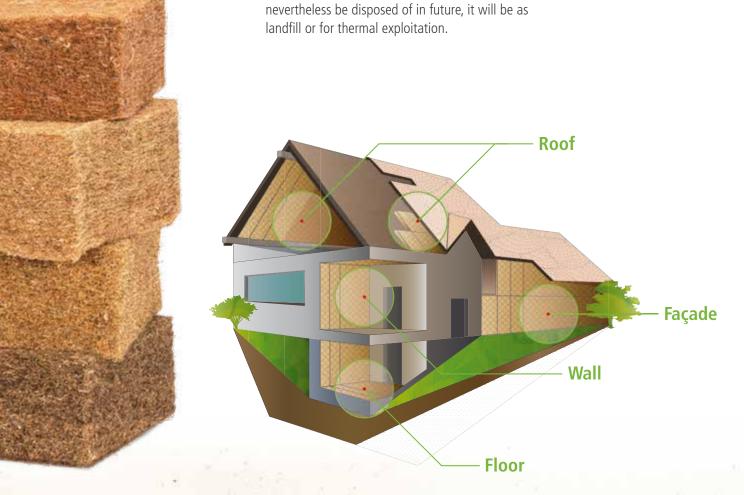
Natural fibre insulating materials from **THERMO NATUR** - the **perfect solution to insulating** any type of building. **They will save energy, are healthy** and create **no waste**.

VALUE ADDED

It is only a matter of time before this sustainable method of insulating will be the standard. Insulate intelligently already now and improve the value of your property.

ENVIRONMENT + CLIMATE

Fully degradable (PREMIUM PLUS) **or recyclable**, natural insulating materials have infinite applications in the economic cycle. Should they nevertheless be disposed of in future, it will be as landfill or for thermal exploitation.



THIS APPLIES TO ALL OUR INSULATING MATERIALS



Fire behaviour: (tested according to EN ISO 11925-2:2002) Max. application temperature [°C]: B2, Class E (in acc. with EN 13501-1:2007)

120°C



Resistance against mould growth: (tested in acc. with EAD, Annex B)

Assessment level 0 (in acc. with EN ISO 846:1997)

FORM OF DELIVERY

FIRE PROTECTION



Board thicknesses: 30 – 220 mm

Standard dimensions of mats:

1200 x 625 mm, 1200 x 580 mm (wooden construction dimension) 2400 x 1000 mm

Customisation at no extra cost: 40 or more equal width mats (between 400 and 1200 mm)



Widths:

625 mm and 580 mm

Thicknesses:

from 30 mm to 60 mm, 80 mm (in increments of 10 mm)

THERMO HEMP PREMUIM PLUS is supplied only as mats.

Description:

- Insulating material with European approval
- certified ecologically and under building biology
- flexible mats made of durable, robust hemp and/or jute fibres, not resistant to compression
- compostable (PREMIUM PLUS)
- vegetable based binding fibre (PREMIUM PLUS)
- manufactured using thermobonding and 100% natural energy

Applications:

- Insulation between rafters
- Insulation on rafters between supporting rafters
- Insulation under rafters
- Insulation of wooden joists in ceilings,
- Insulation of external and internal walls in wooden frame and wooden stud constructions
- Insulation of metal stud walls
- Insulation of facings
- Exterior insulation behind cladding

Characteristics:

- top thermal protection due to low thermal conductivity
- top heat protection in summer due to excellent heat storage capacity
- good acoustic damping properties
- simple application using conventional electric cutting tools with counter-travelling wavecut knings of the TUEDMO NATUR insulation kn
- cut knives or the THERMO NATUR insulation knife • suitable for DIY
- humidity regulating due to high sorption capacity
- no nutrients for rodents and insects

General information:

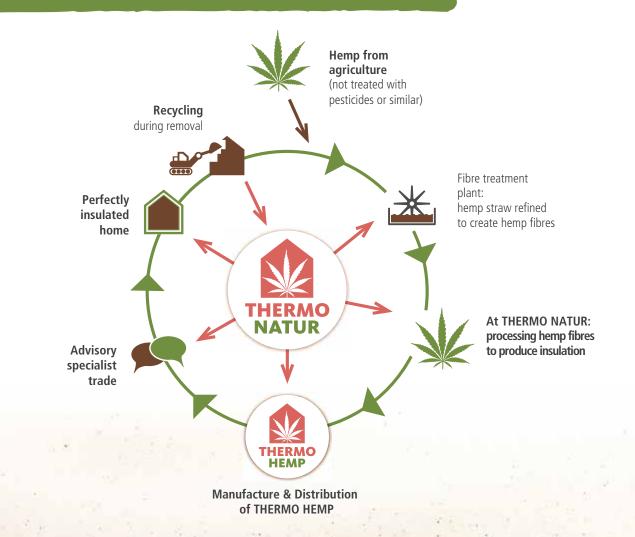
- THERMO NATUR insulating materials must be stored and applied in dry conditions
- store upright on the long side
- install without gaps and allow 10 – 30 mm oversize for tight fit
- immediately seal the thermal shell spaces with a vapour barrier after installation

HEMP

We offer our high-performance insulation pioneer THERMO HEMP in different types.

Hemp plants grow fast, shade the soil and in this way prevent weeds from growing. No chemical pest management is thus required in the field.

Due to its large biomass, hemp binds more CO_2 during the growth phase than any other agriculturally cultivated plant in our latitudes. So-called industrial hemp offers a highly tear-resistant, stable and durable natural fibre. It needs **no chemical treatment** against mould growth or pest infestation.





Excellent diffusion properties

Thermal conductivity up to λ 10, dry = 0.0396 W/mK

- Fast, straightforward installation in roofs, walls and floors
- Straightforward installation in old and new buildings
- Complete declaration of all ingredients
- Soda based fire protection
- Clean, low-dust processing •
- Contains no harmful substances

- harmless to the respiratory tract
- No mould growth, Best mark "0" (as per EN ISO 846)
- Does not attract vermin (contains no proteins or starch)

THERMO HEMP

- Re-growing raw materials offer active environmental protection: Jute and hemp store CO₂ in their growing phase.
- Easy disposal and recycling
- Available in rolls and as mats Customisation at no extra cost: min. order of 40 mats of equal width.





wohn-medizinisch empfohlen

KEIN SCHIMMELPILZ



THE 100-PERCENT ONE

Produced exclusively from natural fibres, THERMO HEMP PREMIUM PLUS is the 100% consistently sustainable product in the THERMO HEMP range. Supplied in mat form only.

European Technic	cal Approval		ETA-05/0037											
Reference number			13070	130701-042-01										
Components			85–90	% hemp	o fibres, 8	3–10%	bi-com	iponent fi	bres ma	ade of c	ornstarc	h, 2–59	% soda a	s fire proofing
Dimensional vari	ations													
Length and Width	Ef	N 822:1994		$ength = \pm 2 \%$ /idth: $\pm 1.5 \%$										
Thickness	EI	N 823:1994	- 5 % /	5 % / - 5 mm and + 20 mm / + 20 % complies with EN13162:2008, table 1								table 1		
Bulk Density	EN	1602:1996	28 – 40	8 – 46 kg/m³										
Dimensional stabil (48h, 70°C, 50 rel.		1604:1996		ength and width max. ± 1 % Thickness max 5 / + 10 %										
		e 1608:1996	> 2 x net weight											
	d heat insulation													
Thermal conductive	Ity EN '	12667:2001												
Metered Value of t	10, dry	0.0396	0.0396 W/(m·K) category II											
Nominal thermal c	0.04 W	//(m•K)	category	/ 11										
Resistance to heat [m ² •K/W] with thickr			0.75 30	1.00 40	1.25 50	1.50 60	2.00 80	2.50 100	3.00 120	3.50 140	4.00 160	4.50 180	5.00 200	5.50 220
Specific thermal ca	apacity c		2300 J	/(kg•K)										
Water vapour diffu	ision resistance coeffi EN 1	cient µ 2086 :1997	1 to 2											
Water absorption	EN 1609:1996	6, process A	$\leq 4.2 \text{ kg/m}^2$											
Sound insulation	1													
Length related flow	V resistance EN 2	29053:1993	3.0 kPa	a•s/m²										
		Practica	al sound	absorp	tion coe			N ISO 11654	EN ISO 1	1654				
Sound	Nominal thickness													
absorption	[mm]	Octave	Octave middle frequency Rated sound absorption Sound							d abcorntion				
		125	250	500	1000) 2	2000	4000	Rate		ient α_w	non	Sour	nd absorption class
	40	0.20	0.45	0.70	0.85	; (0.90	0.95		0.	70 (H)			С
EN ISO 354:2003 and EN ISO 11654:1997	160	0.85	1.00	1.00	1.00) 1	1.00	1.00		1.	00			A



THERMO HEMP

THE CLASSIC ONE

The THERMO HEMP pioneer product has been demonstrating the strengths of hemp fibres for decades. You cannot go wrong when using THERMO HEMP PREMIUM.

European Technie	cal Approval			ETA-05	/0037										
Reference number				130701	-040-01	1									
Components				85-90% hemp fibres, 8-10% bi-component fibres PE-based, 2-5% soda as fire proofing								oofing			
Dimensional vari	iations														
Length and Width		EN 8	822:1994	Length= $\pm 2 \%$ Width: $\pm 1.5 \%$											
Thickness		EN 8	323:1994	- 5 % / - 5 mm and + 20 mm / + 20 % complies with EN13162								3162:2008,	, table 1		
Bulk Density		EN 10	602:1996	28 – 46	5 kg/m³										
Dimensional stabil (48h, 70°C, 50 rel.		EN 16	504:1996		and wid		nax. ± 1 % +10 %	6							
	arallel to the mat plan	e en 10	608:1996	> 2 x n	et weig	ht									
	nd heat insulation														
Thermal conductiv	ity	EN 12	667:2001	2001											
Metered Value of thermal conductivity λ $_{10,dry}$					0.0396 W/(m•K) category II										
Nominal thermal conductivity $\lambda_{D}^{(23,50)}$					/(m•K) c	atego	ory II								
Resistance to heat [m ² •K/W] with thick				0.75 1.00 1.25 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 30 40 50 60 80 100 120 140 160 180 200 220											
Specific thermal ca	apacity c			2300 J/(kg•K)											
Water vapour diffu	usion resistance coeffi	cient µ EN 120	086:1997	1 to 2											
Water absorption	EN	1609:1996, j	process A	≤ 4.2 kg/m²											
Sound insulation	1														
Length related flow	w resistance	EN 290	53 :1993	3.0 kPa	•s/m²										
		Practic	al sound	d absorp	tion coe		e nt α_p alculated by E	N ISO 11654	EN ISO	11654					
Sound absorption	Nominal thickness [mm]	Octave	middle	iddle frequency											
		125	250	Rated sound absorption 250 500 1000 2000 4000 coefficient α _w						Sound absorption class					
	40	0.20	0.45	0.70	0.8	5	0.90	0.95		0	.70 (H)			С	
EN ISO 354:2003 and EN ISO 11654:1997	160	0.85	1.00	1.00	1.0	0	1.00	1.00		1	.00			А	



THE COMBINER

Optimal mixture of only the best. Comprising of mainly hemp with ca. 20-25% jute, THERMO HEMP COMBI JUTE is an attractively priced solution for hemp fans.

European Technical Approval		ETA-05/0037	
Reference number		130701-041-01	
Components		60 - 70 hemp fibres, $20 - 25$ % jute fibres, $8 - 10$ % bi-co 2 - 5 % soda as fire proofing	omponent fibres PE-based,
Dimensional variations			
Length and Width	EN 822:1994	Length= $\pm 2 \%$ Width: $\pm 1.5 \%$	
Thickness	EN 823:1994	- 5 % / - 5 mm and + 20 mm / + 20 %	complies with EN13162:2008, table 1
Bulk Density	EN 1602:1996	28 – 46 kg/m ³	
Dimensional stability (48h, 70°C, 50 rel. humidity)	EN 1604:1996	Length and width max. ± 1 % Thickness max 5 / +10 %	
Tensile strength parallel to the mat plane	EN 1608:1996	> 2 x net weight	

Energy saving and heat insulation

Thermal conductivity	EN 12667:2001												
Metered Value of thermal conductivity	λ 10, dry	0.0396	5 W/(m•	K) cateo	gory II								
Nominal thermal conductivity $\lambda_{D}^{}_{(23,50)}$		0.04 W/(m•K) category II											
Resistance to heat admission R [m ² •K/W] with thickness [mm]		0.75 30	1.00 40	1.25 50	1.50 60	2.00 80	2.50 100	3.00 120	3.50 140	4.00 160	4.50 180	5.00 200	5.50 220
Specific thermal capacity c		2300 J	/(kg•K)										
Water vapour diffusion resistance coef	ficient µ EN 12086 :1997	1 to 2											
Water absorption	N 1609:1996, process A	≤ 4.2 k	kg/m²										
Sound insulation													
Length related flow resistance	EN 29053:1993	3.0 kPa	a•s/m²										

		Practica	al sound	absorpti	on coeffic	tient α_{P}						
Sound absorption	Nominal thickness [mm]	Octave	ctave middle frequency									
		125	250	500	1000	2000	4000	Rated sound absorption coefficient α_w	Sound absorption class			
		123	250	500	1000	2000	-1000	coefficient a _w	ciuss			
	40	0.20	0.45	0.70	0.85	0.90	0.95	0.70 (H)	С			
EN ISO 354:2003 and												
EN ISO 11654:1997	160	0.85	1.00	1.00	1.00	1.00	1.00	1.00	А			



FOR QUIET FLOORS

Used as an underlay for floating parquet and laminate floors. Felt strips as decoupling and partitioning strips in light partition wall construction, with wood-on-wood laying and with wooden floors.



THE GAP FILLER

Seal small gaps with high quality and sustainably. Exploit the positive natural effect of hemp fibres on surrounding components and materials.



Description	THERMO STEP HEMP					
European Technical Approval	Z-158.10-117					
Components	100 % hemp fibres , no binding material					
Thickness	3, 5, 10 mm ± 10 %					
Total mass per unit area	630 g/m² to 1550 g/m² \pm 10 %					
Bulk density	155 to 210 kg/m ³					
Specific thermal capacity c	2300 J/(kg•К)					
Water vapour diffusion resistance coefficient $\mu_{\text{EN 12086}}$	1 bis 2					
Fire behaviour EN ISO 11925-2	B2, Class E EN ISO 13501-1					
Max. processing temperature [°C]	160 °C					
Thickness reduction with a static load of 1600 N/m ² (1,6 kg/dm ²)	3 mm material thickness: 8 % to 20 % 5 mm material thickness: 6 % to 18 % 10 mm material thickness: 5 % to 15 %					
Delivery form	Rolls					
Measures	Hemp Felt Strips: 3 mm x 100 mm x 25 m 5 mm x 100 mm x 25 m 10 mm x 100 mm x 15 m					

Description	THERMO WOOL HEMP
European Technical Approval	No requirement, regulated according to BR list C
Components	95 – 98 % loose hemp fibres, 2 – 5 soda as fire proofing
Length of fibre	approx. 50 mm $< L < 160$ mm
Shive content	< 5 %
Water content	approx. 10 – 12 % with 65 % rel. humidity
Roasting Class	1 to 10
Specific thermal capacity c	2300 J/(kg•K)
Water vapour diffusion resistance coefficient µ	1 to 2
Fire behaviour	B2, class E
Max. processing temperature [°C]	160 °C
Delivery form	Cardboard [58 cm x 58 cm x 65 cm]
Content per Cardboard	10 kg
Bulk density depending on processing	approx. 30 to 50 kg/m ³
Render depending on processing	approx. 0.2 to 0.35 m ³

FOR LOG HOUSES

Natural sealing strips especially for insulating log houses. Particularly easy and good application quality and safe handling. Form of delivery: Rolls: thickness 40 - 80 mm, length 6 - 8 m, width 110 mm (details in Data sheet www.thermo-natur.de)



THE FAÇADE. One system - two natural fibres.

The high quality solution for sustainable thermal protection. Perfect for new construction and restoration. The supports are predrilled in the factory and fastened directly to the outside wall using wall plugs. The infill using our insulation is straightforward. Personally select the suitable insulation for your system: either a **THERMO HEMP** product or **THERMO JUTE DUO**.



More benefits:

- Increasing your property value: Permeability assures long-term preservation of the building structure.
- No gluing: The thermal protection cladding is suspended from the external wall.
- **Prevents growth of mildew:** By reducing thermal bridges.
- Easy to remove: Quick to remove - no residues left behind.
- Fully recyclable:

Insulation and support system, in timber façades the façade components are also individually recyclable.

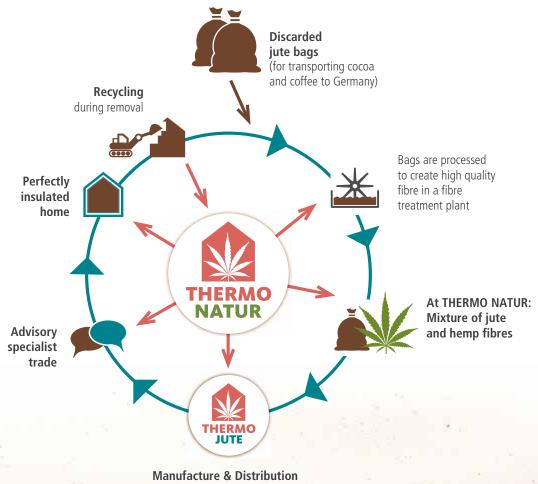
- Limitless façade designs: The insulation ensures thermal protection and the support system adapts to the desired façade cladding.
- Conveniently square cross-section: Ideal supports for insulating with THERMO NATUR INSULATING MATERIALS. Load support through filigree softwood ladder supports.
- Active thermal protection ex factory: Spaces in the ladder supports are insulated with wood fibre board strips in the factory. Significantly lower thermal conductivity than conventional scantling cross-sections.
- Mats with customised dimensions at no extra charge (40 and more mats of the same width and thickness)

LADDER SUPPORT SYSTEM THERMO FAÇADE

INSULATING MAT THERMO HEMP

JUTE

The jute bag is making a name for itself here – as a high-performance insulating material with astonishing capabilities – thanks to upcycling. Treated jute fibres (cocoa or coffee bags) used for insulation **combines durability with excellent insulating figures**. We pass on the **attractive price advantage** after upcycling directly to our customers. The fibres contain **no harmful substances** and are **odourless**. Main jute producing regions: India, Bangladesh and other South Asian countries.





• Excellent indoor climate due to moisture compensating properties

Specific heat storage capacity C= 2325 J/kgK

- Fast, straightforward installation on facades, roofs, walls and floors
- Contains no harmful substances

. W.

- Contains no substances harmful to the environment
- Extremely low requirement for primary energy since manufactured from recycled jute fibres

- No mould growth, Best mark "0" (as per EN ISO 846)
- **Does not attract vermin** (contains no proteins or starch)
- Re-growing raw materials offer active environmental **protection:** Jute sequesters CO₂ in its growing phase.
- Easy disposal and recycling
- No odour emission
- Available as mats Customisation at no extra cost: for orders of 40 and up mats of equal width.



THE RECYCLE STAR

Our objective in terms of successful raw material cycling is the infinite re-use of as many raw materials as possible. With THERMO JUTE DUO, we have indeed succeeded in creating this 100% closed production cycle! THERMO JUTE DUO utterly convinces with benefits in terms of building biology and physics. It is ideally suited for new

construction as well as energy-centred renovation of existing buildings. Achieving thermal conductivities of λ 10, dry = 0.0368 W/mK is sensational – no other hemp or jute fibre insulating material on the market has thus far achieved such lambda values.

European Technical Approval		ETA-1	4/0479)									
Reference number		13070	1-043-0)1									
Components		70 – 80 % jute fibres, 10 – 15 % hemp fibres, 8 – 10 % bi-component fibres PE-based, 2 – 5 % soda as fire proofing											
Dimensional variations													
Length and Width	EN 822:2013		= ± 2 ° ± 1.5 °										
Thickness	EN 823:2013	- 4 mm	n and +	10 mm	/ + 10	%				complies	with EN131	71:2012, ta	ble 1
Bulk Density	EN 1602:2013	30 – 3	5 kg/m	3									
Dimensional stability (48h, 70°C)	EN 1604:2013			idth ma x. 3%	x. ± 1.5	%							
Tensile strength parallel to the mat plane	EN 1608:2013	≥ 30 kPa											
Energy saving and heat insulation													
Thermal conductivity	EN 12667:2001												
Measured Value λ 10, dry		0.0368	8 W/(m•	K)									
Metered Value of thermal conductivity λ $_{\rm 10,0}$	dry	0.0379 W/(m•K) category II											
Nominal thermal conductivity $\lambda_{D}^{(23,50)}$		0.0391	W/(m•	K), roun	ded 0.0	4 W/(m	•K) cat	egory II		DIN EN I	SO 10456		
Resistance to heat admission R [m²•K/W] with thickness [mm]		0.75 30	1.00 40	1.25 50	1.50 60	2.00 80	2.50 100	3.00 120	3.50 140	4.00 160	4.50 180	5.00 200	5.50 220
Specific thermal capacity c		2325 J/(kg•K)											
	tμ N 12086:2013 ition 23-50/93	1 to 2											
Water absorption EN 1609:2	013, process A	≤ 2.0 k	kg/m²										
Sound insulation													
Length related flow resistance	N 29053:1993	3.2 kPa	a•s/m²										



THE BIG STAR

A very good lambda value as well as the specific thermal conductivity make **THERMO JUTE 100** an ideal and extremely durable high-performance insulating material - both in winter and summer. **THERMO JUTE 100** represents the well-priced version of our insulation materials. **As a one hundred percent upcycling product THERMO JUTE 100 can only convince.**

ETA-14/0479									
130701-044-01									
85 – 90 % jute fibres, 8 – 10 % bi-component fibres PE-based, 2 – 5 % soda as fire proofing									
Length= $\pm 2 \%$ Width: $\pm 1.5 \%$									
- 4 mm and + 10 mm / + 10 % complies with EN13171:2012, table 1									
ca. 34 – 40 kg/m³									
≥ 30 kPa									
0.0359 W/(m•K)									
0.0368 W/(m•K) category II									
0.038 W/(m•K) category II									
0.79 1.05 1.32 1.58 2.11 2.63 3.16 3.68 4.21 4.74 5.26 5.79 30 40 50 60 80 100 120 140 160 180 200 220									
2350 J/(kg•K)									
≤ 2.0 kg/m²									
3.4 kPa•s/m ²									
0 EN ISO 846:2013									



FOR QUIET FLOORS

Used as an underlay for floating parquet and laminate floors. Felt strips for decoupling and partition strips in light partition wall construction, with wood-on-wood laying and for wooden floors.

The product is in the development phase.



THE GAP FILLER

Seal small gaps with high quality and sustainably. Utilise the positive natural effect of jute fibres on surrounding components and materials.

European Technical Approval	No requirement, regulated according to BR list C
Components	95 – 98 % loose jute fibres, 2 – 5 soda as fire proofing
Length of fibre	approx. 20mm < L < 90 mm
Shive content	< 0 %
Water content	approx. 12.5 – 14 % with 65 % rel. humidity
Specific thermal capacity c	2350 J/(kg•K)
Water vapour diffusion resistance coefficient µ	1 to 2
Fire behaviour	B2, class E
Max. processing temperature [°C]	160 °C
Delivery form	Cardboard (58 cm x 58 cm x 65 cm)
Content per Cardboard	10 kg
Bulk density depending on processing	approx. 30 to 50 kg/m ³
Render depending on processing	approx. 0.2 to 0.35 m ³



TRAINING + SEMINARS

Boost your sales! With specialised know-how on technology, application and current trends. Our instructors are selected practitioners. As application technicians and construction biologists, they will offer you very high direct benefits to your daily business.

You will receive:

- valuable tips for reliable application of the products
- arguments towards successful advice and sales
- accurate quality statements covering the entire range

Information and registration at info@thermo-natur.de

ACCESSORIES

Do you need accessories such as air- and wind-seals, under-decking, tools or our **AGATON LEHM** building materials?

Simply include in your order and save freight charges!



MAT CUTTING



- Free of charge from 40 and more equal width mats or rolls
 TIP! Measure correctly:
- Measure the clear joist or rafter spacing and add ca.

20 - 30 mm (the oversize prevents thermal bridges and allows a tight fit of the mats). For insulation thicknesses < 100 mm or large rafter spaces: tack mats in addition.

SHORT DELIVERY TIMES



- Drop shipping directly to site
- combined shipments for lower freight charges



OUR INSULATION MATERIALS RANGE: THERMO THERMO THERMO ERMO RMO τн **HEMP HEMP** HEMP FAÇADE **STEP** PREMIUM COMBI JUTE REMIUM HEMP HEMP ERMO JUTE FACADE

DUO



THERMO NATUR GmbH & Co. KG Industriestraße 2, D-86720 Nördlingen · **www.thermo-natur.de**

This brochure reflects the technical state of the art at the time of going to press and remains valid until a new edition is printed. It is applicable in the context of other THERMO NATUR GmbH & Co. KG documentation. Please heed our application notes when working with our products. The National Building Regulations must be complied with. Liability by THERMO NATUR GmbH & Co. KG is excluded. This includes printing errors and later changes to technical detail.