PRODUCT OVERVIEW

www.naturheld.global

ENVIRONMENTALLY FRIENDLY INSULATION SYSTEMS FROM THE UPPER PALATINATE

Made in Germany

Headquarter:
naturheld GmbH
Zur Betzenmühle 1
95703 Plößberg / OPf.

Production location:
naturheld GmbH
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92655 Grafenwöhr-Hütten

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Version No.: 002, valid from 03/2024.
Register court: County court Weiden
Registration number: HRB 5596
VAT ID no.: DE 340563629
Seat of the company: Plößberg
Managing directors: Robert Friedl, Andreas Sandner

Design and realization by Ziegler Group Marketing

CONTENTS

Grafenwöhr

the ideal solution for construction and nature

Eligible buildings with naturheld: Our insulation materials meet all the requirements of the QNG guideline!

SUSTAINABLE:
- Wood chips as a sawing by-product
- Bark for own combined heat and power plant
- Electricity from sustainable energies
- naturheld is entirely energy self-sufficient

ECOLOGICAL:
- 100% wood utilisation
- Water treatment in the plant
- Our pallets are reusable
- Wood fibre residues are returned to the production cycle

Forschungszentrum ***QUANTENSPRUNG***

INNOVATIVE:
In our newly designed research center we develop ground-breaking new solutions for timber construction

ZIEGLER LOGISTIK

RELIABLE:
More than 230 of our own state-of-the-art, low-emission lorries

Taking back of pallets and concept for taking back residual materials

ZIEGLER HOLZINDUSTRIE

REGIONAL:
- Made in Germany, Bavaria
- Wood chips from the sawmill which is only 25 km away

PEFC certified

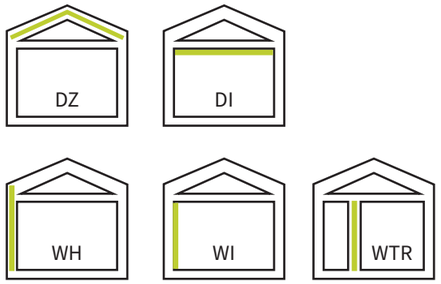
This product comes from sustainably managed forests and controlled sources.

www.pefc.de

PEFC/04-31-0671

WOOD FIBRE CAVITY WALL INSULATION

AREAS OF APPLICATION



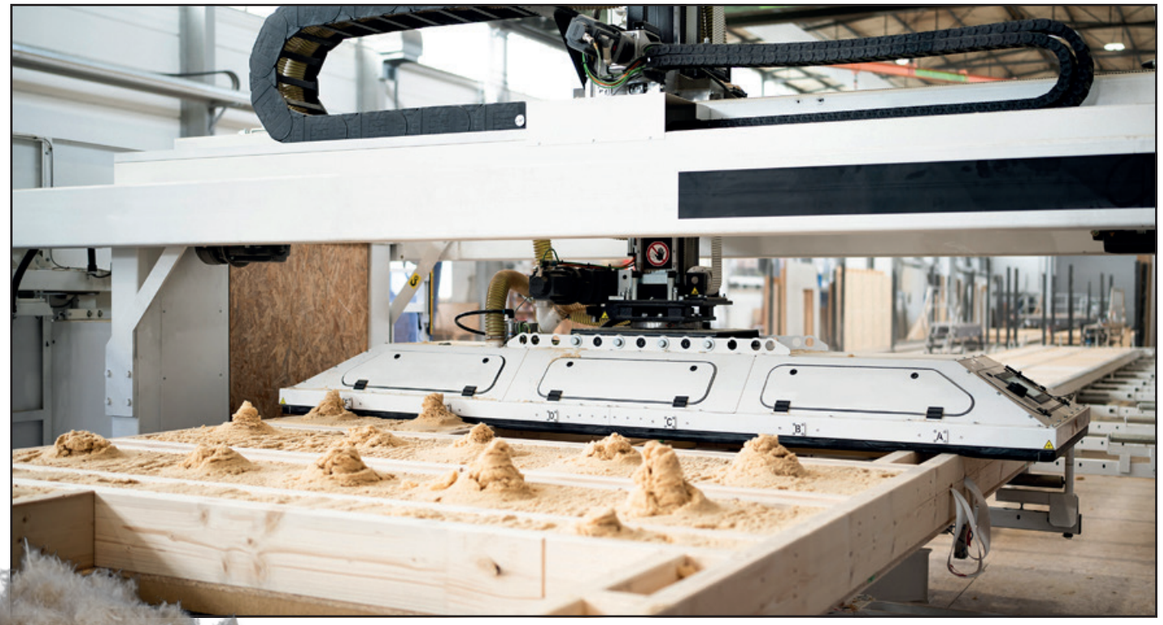
- Insulation between rafters
- Cavity insulation of walls in wood frame and timber stud construction
- Insulation of wood-beamed ceilings
- Insulation of the top storey ceilings
- Insulation of compensatory components on mineral bases

PROPERTIES OF NATURHELD WOOD FIBRE CAVITY WALL INSULATION				
Approval / European Technical Assessment		ETA-23/0125		
Recommended density enclosed	kg/m³	33–43		
Declared thermal conductivity λD	W/mK	0,038		
Thermal conductivity germany λB	W/mK	0,040	0,039	0,038
Fire class (RTF) according to EN 13501-1		E		
Fire class according to DIN 4102-1		B2		
Ingredients		wood fibre, fire retardent		
Water vapour diffusion resistance factor	μ	1-2		
Specific heat capacity	J/(kg*K)	2100		
AVV waste declaration germany		030105, 170201		
Areas of application according to DIN 4108-10		DZ, DI-zk, WH, WI-zk, WTR		

PACKAGING | WEIGHT

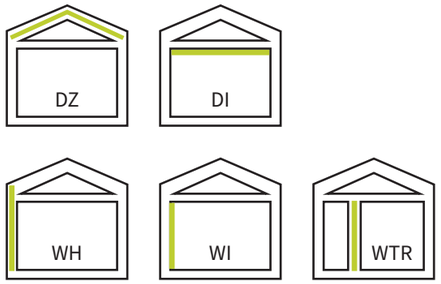
	Weight bales in kg	Number of bales per pallet	weight pallet in kg
foiled	15	21	315
unfoiled	20	18	360

SEPARATE LOADING ACCORDING TO PRODUCT TYPES	
Pallet format:	ca. 120 * 80 * 240 cm
Pallets per lorry (Standard lorry: interior 2.40 m wide, 13.60 m long)	32
Pallet height (incl. pallet)	255 cm



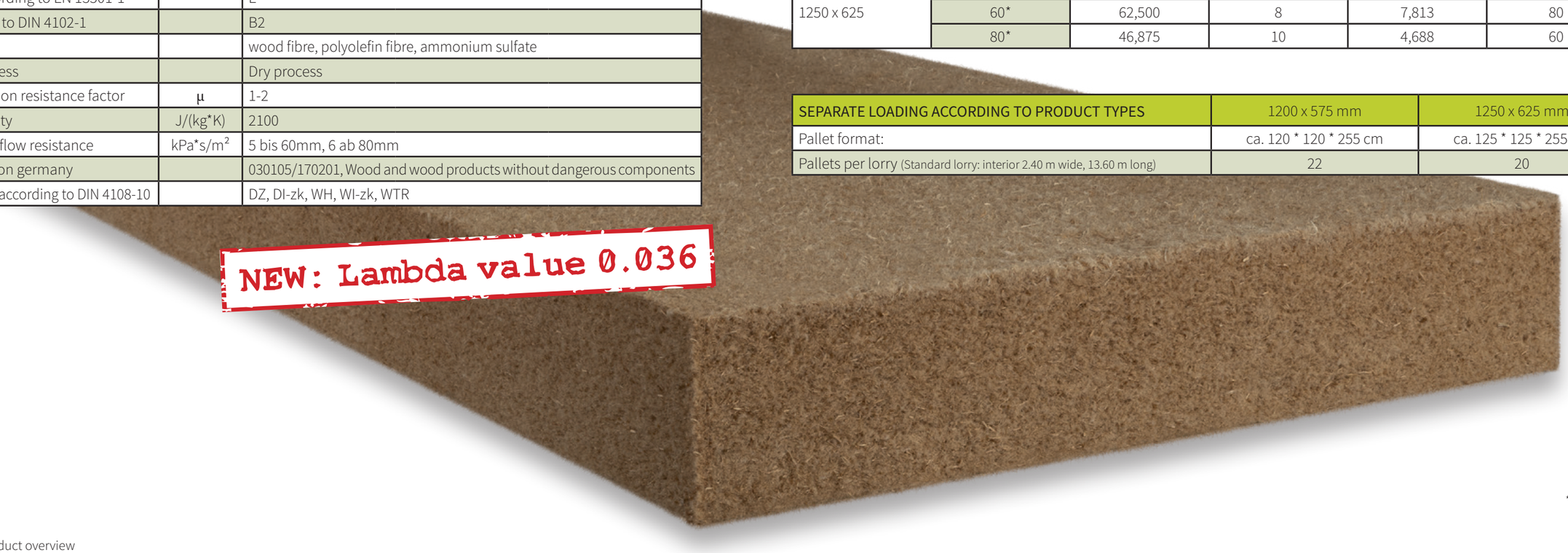
FLEX

AREAS OF APPLICATION



- Insulation between rafters
- Cavity insulation of walls in timber-frame construction
- Insulation of wooden beamed ceiling
- Insulation of top floor ceilings
- Insulation of installation levels
- Insulation of ribbing on mineral substrates

PROPERTIES OF NATURHELD WOOD FIBRE INSULATION PANEL FLEX						
Approval / European Technical Assessment		WF-EN 13171-T3-MU1/2-AFr10				
Recommended density enclosed	kg/m³	50				
Declared thermal conductivity λD	W/mK	0,036				
Thermal conductivity germany λB	W/mK	0,038		0,037		0,036
Fire class (RTF) according to EN 13501-1		E				
Fire class according to DIN 4102-1		B2				
Ingredients		wood fibre, polyolefin fibre, ammonium sulfate				
Manufacturing process		Dry process				
Water vapour diffusion resistance factor	μ	1-2				
Specific heat capacity	J/(kg*K)	2100				
Declared level of airflow resistance	kPa*s/m²	5 bis 60mm, 6 ab 80mm				
AVV waste declaration germany		030105/170201, Wood and wood products without dangerous components				
Areas of application according to DIN 4108-10		DZ, DI-zk, WH, WI-zk, WTR				



FORMATS | EDGES | THICKNESS

▲ Applications: Timber frame construction

Format (mm)	Thickness in mm	m² per pallet	Packages per pallet	m² per packages	Piece
1200 x 575	30*	110,400	10	11,040	160
	40	82,800	10	8,280	120
	50	66,240	8	8,280	96
	60	55,200	8	6,900	80
	80	41,400	10	4,140	60
	100	33,120	8	4,140	48
	120	27,600	8	3,450	40
	140	22,080	8	2,760	32
	160	20,700	10	2,070	30
	180	16,560	8	2,070	24
	200	16,560	8	2,070	24
	220*	13,800	10	1,380	20
	240	13,800	10	1,380	20
	260*	11,040	8	1,380	16
	280*	11,040	8	1,380	16
	300*	11,040	8	1,380	16

▲ Applications: Drywall construction with C-profiles

Format (mm)	Thickness in mm	m² per pallet	Packages per pallet	m² per packages	Piece
1250 x 625	40*	93,750	10	9,375	120
	60*	62,500	8	7,813	80
	80*	46,875	10	4,688	60

SEPARATE LOADING ACCORDING TO PRODUCT TYPES	1200 x 575 mm	1250 x 625 mm
Pallet format:	ca. 120 * 120 * 255 cm	ca. 125 * 125 * 255 cm
Pallets per lorry (Standard lorry: interior 2.40 m wide, 13.60 m long)	22	20

*on request

ROOF 140

AREAS OF APPLICATION

- Robust, rainproof subroof panel with good insulation values for high thicknesses
- Rainproof subroof in accordance with ZVDH regulations for roof pitch from 15°
- UDP-A: Tested as rainproof subroof by Holzforschung Austria in accordance with ÖN B4119
- Weatherproof for 4 weeks

PROPERTIES OF NATURHELD WOOD FIBRE INSULATION PANEL ROOF 140				
Approval / European Technical Assessment		WF-EN 13171-T5-CS(10/Y)100-TR20-DS(70,-)3-AFr60-WS1,0-MU3		
Recommended density enclosed	kg/m³	140		
Declared thermal conductivity λD	W/mK	0,041		
Thermal conductivity germany λB	W/mK	0,043	0,045	0,041
Fire class (RTF) according to EN 13501-1		E		
Fire class according to DIN 4102-1		B2		
Ingredients		wood fibre, polyurethane resin, paraffin wax		
Manufacturing process		Dry process		
Compression strength at 10% deformation	kPa	100		
Tensile strength perpendicular to face	kPa	20		
Water vapour diffusion resistance factor	μ	3		
Specific heat capacity	J/(kg*K)	2100		
Dynamic stiffness	MN/m³	60mm<65, 80mm<50, 140mm<30		
Declared level of airflow resistance	kPa*s/m²	>60		
AVV waste declaration germany		030105/170201, Wood and wood products without dangerous components		
Areas of application according to DIN 4108-10		DAD, DAA ds, DI, DEO ds, WAB ds, WI, WH, WZ		

FORMATS | EDGES | THICKNESS

▲ Applications: UDP-A undercover plate

Format (mm)	Edge	Thickness in mm	m² per pallet	Piece
2000 x 580	N+F	60	44,080	38
		80	32,480	28
		100	25,520	22
		120	20,880	18
		140	18,560	16
		160	16,240	14
		180*	13,920	12
		200*	11,600	10
		220*	11,600	10

SEPARATE LOADING ACCORDING TO PRODUCT TYPES	2000 x 580 mm
Pallet format:	ca. 200 * 120 * 120 cm
Pallets per lorry (Standard lorry: interior 2.40 m wide, 13.60 m long)	26
Pallet height (incl. pallet)	130 cm

Alle Maße sind Deckmaße, Nut- und Federtiefe 2,5cm
ACHTUNG: Bei Platten mit Nut & Feder verrechnen wir Deckmaße. Dies bewirkt eine Preiseinsparung von ca. 4 – 6 %!

*on request

ROOF 180

AREAS OF APPLICATION

- Robust, rainproof subroof panel
- Rainproof subroof in accordance with ZVDH regulations for roof pitch from 15°
- UDP-A: Tested as rainproof subroof by Holzforschung Austria in accordance with ÖN B4119
- Weatherproof for up to 12 weeks if roof is open from below and subroof is visible
- Weatherproof for 4 weeks on completed and insulated roof

PROPERTIES OF NATURHELD WOOD FIBRE INSULATION PANEL ROOF 180				
Approval / European Technical Assessment		WF-EN 13171-T5-CS(10/Y)150-TR30-DS(70,-)3-AFr100-WS1,0-MU3		
Recommended density enclosed	kg/m³	180		
Declared thermal conductivity λD	W/mK	0,043		
Thermal conductivity germany λB	W/mK	0,045	0,047	0,043
Fire class (RTF) according to EN 13501-1		E		
Fire class according to DIN 4102-1		B2		
Ingredients		wood fibre, polyurethane resin, paraffin wax, Latex		
Manufacturing process		Dry process		
Compression strength at 10% deformation	kPa	150		
Tensile strength perpendicular to face	kPa	30		
Water vapour diffusion resistance factor	μ	3		
Specific heat capacity	J/(kg*K)	2100		
Dynamic stiffness	MN/m³	40 mm < 90, 60mm < 60, 80mm < 50, 100mm < 45		
Declared level of airflow resistance	kPa*s/m²	>100		
AVV waste declaration germany		030105/170201, Wood and wood products without dangerous components		
Areas of application according to DIN 4108-10		DAD, DAA ds, DI, DEO ds, WAB ds, WI, WH, WZ		

FORMATS | EDGES | THICKNESS

▲ Applications: UDP-A undercover plate

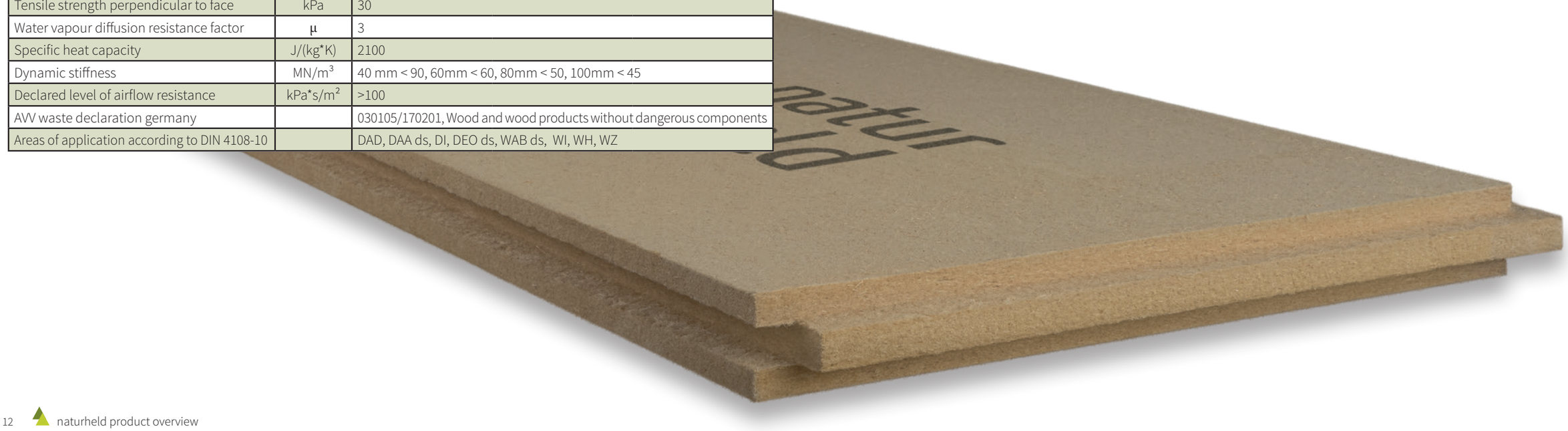
Format (mm)	Edge	Thickness in mm	m² per pallet	Piece
2000 x 580	N+F	80	32,480	28
		100	25,520	22

The following thicknesses are available as a combination **wall panel 180 udp-a**
Further information about our **plasterable roof panel** can be found on **pages 24/25**

Format (mm)	Edge	Thickness in mm	m² per pallet	Piece
2525 x 580	N+F	40	82,012	56
2525 x 580		60	55,651	38
2000 x 580		60	44,080	38

SEPARATE LOADING ACCORDING TO PRODUCT TYPES	2000 x 580 mm	2525 x 580 mm
Pallet format:	ca. 200 * 120 * 120 cm	ca. 255 * 120 * 120 cm
Pallets per lorry (Standard lorry: interior 2.40 m wide, 13.60 m long)	26	20
Pallet height (incl. pallet)	130 cm	130 cm

All dimensions are effective measure, tongue and groove depth 2.5 cm **NOTE:** In the case of panels with tongue & groove as well as a rebated edge, we charge coverage dimensions. This results in price savings of approx. 4 – 6%!

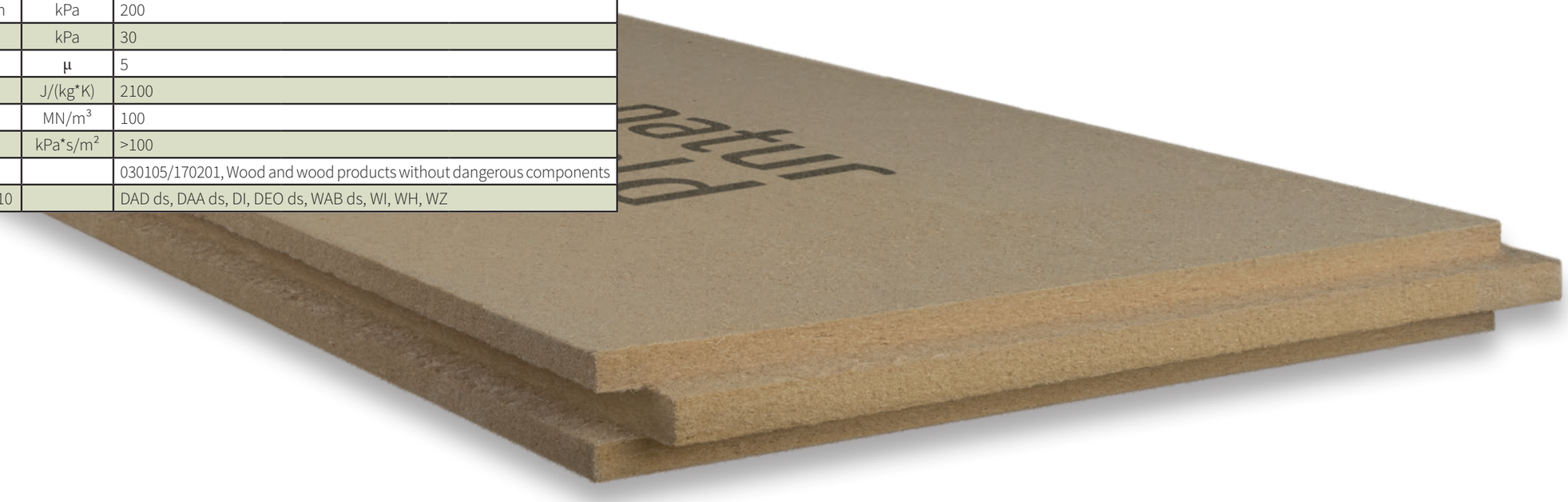


ROOF 220

AREAS OF APPLICATION

- High-strength insulation panel for various applications
- Temporarily weatherproof on-roof insulation, for roof pitch from 15°, ZVDH Class 3
- UDP-A: Tested as rainproof subroof by Holzforschung Austria in accordance with ÖN B4119
- Weatherproof for up to 12 weeks if roof is open from below and subroof is visible
- Weatherproof for 4 weeks on completed and insulated roof
- Pressure-resistant substructure for dry screed

PROPERTIES OF NATURHELD WOOD FIBRE INSULATION PANEL ROOF 220				
Approval / European Technical Assessment		WF-EN 13171-T5-CS(10/Y)200-TR30-DS(70,-)3-AFr100-WS1,0-MU5		
Recommended density enclosed	kg/m³	220		
Declared thermal conductivity λD	W/mK	0,047		
Thermal conductivity germany λB	W/mK	0,049	0,051	0,047
Fire class (RTF) according to EN 13501-1		E		
Fire class according to DIN 4102-1		B2		
Ingredients		wood fibre, polyurethane resin, paraffin wax, Latex		
Manufacturing process		Dry process		
Compression strength at 10% deformation	kPa	200		
Tensile strength perpendicular to face	kPa	30		
Water vapour diffusion resistance factor	μ	5		
Specific heat capacity	J/(kg*K)	2100		
Dynamic stiffness	MN/m³	100		
Declared level of airflow resistance	kPa*s/m²	>100		
AVV waste declaration germany		030105/170201, Wood and wood products without dangerous components		
Areas of application according to DIN 4108-10		DAD ds, DAA ds, DI, DEO ds, WAB ds, WI, WH, WZ		



FORMATS | EDGES | THICKNESS

▲ Applications: UDP-A undercover plate

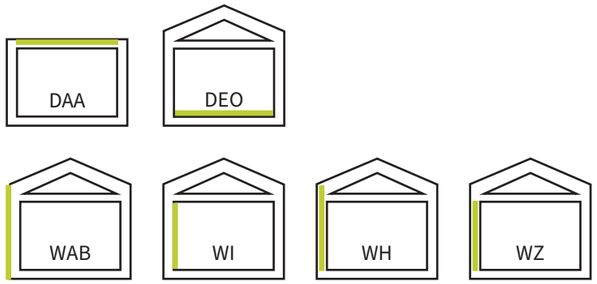
Format (mm)	Edge	Thickness in mm	m² per pallet	Piece
2525 x 580	N+F	22	152,308	104
		35	93,728	64

SEPARATE LOADING ACCORDING TO PRODUCT TYPES	2525 x 580 mm
Pallet format:	ca. 255 * 120 * 120 cm
Pallets per lorry (Standard lorry: interior 2.40 m wide, 13.60 m long)	20
Pallet height (incl. pallet)	130 cm

All dimensions are effective measure, tongue and groove depth 2.5 cm **NOTE:** In the case of panels with tongue & groove as well as a rebated edge, we charge coverage dimensions. This results in price savings of approx. 4 – 6%!

THERM 110

AREAS OF APPLICATION



▲ Substructure panel for roofs and walls (not weatherproof)

PROPERTIES OF NATURHELD WOOD FIBRE INSULATION PANEL THERM 110						
Approval / European Technical Assessment		WF-EN 13171-T4-CS(10/Y)50-TR10-DS(70,-)3-AFr20-WS1,0-MU3				
Recommended density enclosed	kg/m³	110				
Declared thermal conductivity λD	W/mK	0,039				
Thermal conductivity germany λB	W/mK	0,041		0,043		0,039
Fire class (RTF) according to EN 13501-1		E				
Fire class according to DIN 4102-1		B2				
Ingredients		wood fibre, polyurethane resin, paraffin wax				
Manufacturing process		Dry process				
Compression strength at 10% deformation	kPa	50				
Tensile strength perpendicular to face	kPa	10				
Water vapour diffusion resistance factor	μ	3				
Specific heat capacity	J/(kg*K)	2100				
Dynamic stiffness	MN/m³	40mm<60, 80mm<40, 100mm<30, 160mm<20				
Declared level of airflow resistance	kPa*s/m²	40mm>55, 80mm>50, 100mm>45, 160mm>35				
AVV waste declaration germany		030105/170201, Wood and wood products without dangerous components				
Areas of application according to DIN 4108-10		DAA dh, DEO dm, WAB dm, WI, WH, WZ				

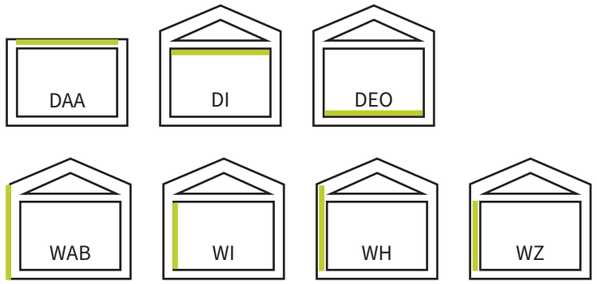
FORMATS | EDGES | THICKNESS

Format (mm)	Edge	Thickness in mm	m² per pallet	Piece
1500 x 600	square edged	80	25,200	28
		100	19,800	22
		120	16,200	18
		140	14,400	16
		160	12,600	14

SEPARATE LOADING ACCORDING TO PRODUCT TYPES	1500 x 600 mm
Pallet format:	ca. 150 * 120 * 120 cm
Pallets per lorry (Standard lorry: interior 2.40 m wide, 13.60 m long)	34
Pallet height (incl. pallet)	130 cm

THERM 140

AREAS OF APPLICATION



- Substructure panel for roofs and walls (not weatherproof)
- Plaster base for interior wall insulation
- Underlay for floor coverings

PROPERTIES OF NATURHELD WOOD FIBRE INSULATION PANEL THERM 140						
Approval / European Technical Assessment		WF-EN 13171-T5-CS(10/Y)100-TR20-DS(70,-)3-AFr60-WS1,0-MU3				
Recommended density enclosed	kg/m³	140				
Declared thermal conductivity λD	W/mK	0,041				
Thermal conductivity germany λB	W/mK	0,043		0,045		0,041
Fire class (RTF) according to EN 13501-1		E				
Fire class according to DIN 4102-1		B2				
Ingredients		wood fibre, polyurethane resin, paraffin wax				
Manufacturing process		Dry process				
Compression strength at 10% deformation	kPa	100				
Tensile strength perpendicular to face	kPa	20				
Water vapour diffusion resistance factor	μ	3				
Specific heat capacity	J/(kg*K)	2100				
Dynamic stiffness	MN/m³	60mm<65				
Declared level of airflow resistance	kPa*s/m²	>60				
AVV waste declaration germany		030105/170201, Wood and wood products without dangerous components				
Areas of application according to DIN 4108-10		DAA ds, DI, DEO ds, WAB ds, WI, WH, WZ				

FORMATS | EDGES | THICKNESS

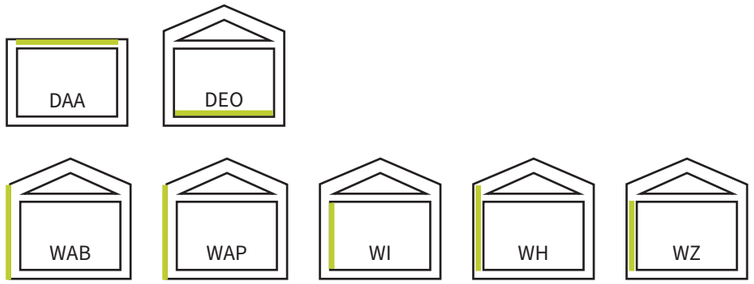
Format (mm)	Edge	Thickness in mm	m² per pallet	Piece
1500 x 600	square edged	40*	50,400	56
		60*	34,200	38
		80	25,200	28
		100	19,800	22

SEPARATE LOADING ACCORDING TO PRODUCT TYPES	1500 x 600 mm
Pallet format:	ca. 150 * 120 * 120 cm
Pallets per lorry (Standard lorry: interior 2.40 m wide, 13.60 m long)	34
Pallet height (incl. pallet)	130 cm

*on request

WALL 110

AREAS OF APPLICATION



- Exterior and interior insulation, can be plastered directly
- EIFS for large surfaces such as solid wood and masonry
- High-performance insulation, ideal for refurbishing masonry and for new CLT constructions

PROPERTIES OF NATURHELD WOOD FIBRE INSULATION PANEL WALL 110				
Approval / European Technical Assessment		WF-EN 13171-T5-CS(10/Y)50-TR15-DS(70,-)3-AFr20-WS1,0-MU3		
Recommended density enclosed	kg/m³	110		
Declared thermal conductivity λD	W/mK	0,039		
Thermal conductivity germany λB	W/mK	0,041	0,043	0,039
Fire class (RTF) according to EN 13501-1		E		
Fire class according to DIN 4102-1		B2		
Ingredients		wood fibre, polyurethane resin, paraffin wax		
Manufacturing process		Dry process		
Compression strength at 10% deformation	kPa	50		
Tensile strength perpendicular to face	kPa	15		
Water vapour diffusion resistance factor	μ	3		
Specific heat capacity	J/(kg*K)	2100		
Dynamic stiffness	MN/m³	80mm<40, 100mm<30, 160mm<20		
Declared level of airflow resistance	kPa*s/m²	80mm>50, 100mm>45, 160mm>35		
AVV waste declaration germany		030105/170201, Wood and wood products without dangerous components		
Areas of application according to DIN 4108-10		DAA dh, DEO dm, WAB dm, WAP, WI, WH, WZ		

FORMATS | EDGES | THICKNESS

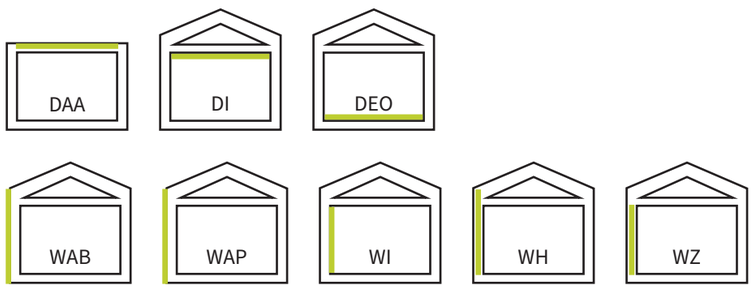
Format (mm)	Edge	Thickness in mm	m² per pallet	Piece
1200 x 400	square edged	80*	20,160	42
		100	14,400	30
		120	11,520	24
		140	11,520	24
		160	8,640	18
		180	8,640	18
		200	7,200	15

SEPARATE LOADING ACCORDING TO PRODUCT TYPES	1200 x 400 mm
Pallet format:	ca. 120 * 120 * 120 cm
Pallets per lorry (Standard lorry: interior 2.40 m wide, 13.60 m long)	44
Pallet height (incl. pallet)	130 cm

*on request

WALL 140

AREAS OF APPLICATION



- Versatile insulation panels with tongue and groove profiling
- Also suitable for non-weatherproof on-roof insulation; the insulation must be protected with suitable sheeting or UDP-A subroof panel
- As wall insulation panel: weatherproof for 4 weeks
- EIFS insulation for timber-frame construction with centre-to-centre dimension of up to 83.3 cm
- For interior and exterior use, can be plastered directly
- Suitable as interior insulation and as floor insulation below screed

PROPERTIES OF NATURHELD WOOD FIBRE INSULATION PANEL WALL 140				
Approval / European Technical Assessment		WF-EN 13171-T5-CS(10/Y)100-TR20-DS(70,-)3-AFr60-WS1,0-MU3		
Recommended density enclosed	kg/m³	140		
Declared thermal conductivity λD	W/mK	0,041		
Thermal conductivity germany λB	W/mK	0,043	0,045	0,041
Fire class (RTF) according to EN 13501-1		E		
Fire class according to DIN 4102-1		B2		
Ingredients		wood fibre, polyurethane resin, paraffin wax		
Manufacturing process		Dry process		
Compression strength at 10% deformation	kPa	100		
Tensile strength perpendicular to face	kPa	20		
Water vapour diffusion resistance factor	μ	3		
Specific heat capacity	J/(kg*K)	2100		
Dynamic stiffness	MN/m³	60mm<65, 80mm<50, 140mm<30		
Declared level of airflow resistance	kPa*s/m²	>60		
AVV waste declaration germany		030105/170201, Wood and wood products without dangerous components		
Areas of application according to DIN 4108-10		DAA ds, DI, DEO ds, WAB ds, WAP, WI, WH, WZ		

FORMATS | EDGES | THICKNESS

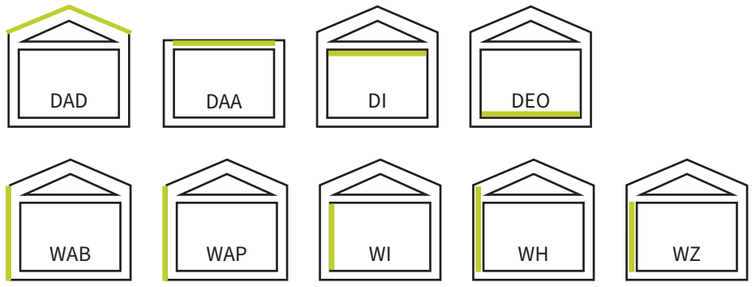
Format (mm)	Edge	Thickness in mm	m² per pallet	Piece
1500 x 580	N+F	80	24,360	28
		100	19,140	22
		120	15,660	18
		140*	13,920	16

SEPARATE LOADING ACCORDING TO PRODUCT TYPES	1500 x 580 mm
Pallet format:	ca. 150 * 120 * 120 cm
Pallets per lorry (Standard lorry: interior 2.40 m wide, 13.60 m long)	34
Pallet height (incl. pallet)	130 cm

*on request

WALL 180 UDP-A

AREAS OF APPLICATION



- Robust insulation panel for use as substructure and as EIFS for timber-frame construction
- Rainproof subroof in accordance with ZVDH regulations for roof pitch from 15°
- UDP-A: Tested as rainproof subroof by Holzforschung Austria in accordance with ÖN B4119
- Weatherproof for up to 12 weeks if structure is open from inside and insulation panel is visible
- Weatherproof for 4 weeks on completed and insulated component
- EIFS insulation for timber-frame construction with centre-to-centre dimension of up to 83.3 cm
- With tongue and groove profiling or in large formats with blunt edge

PROPERTIES OF NATURHELD WOOD FIBRE INSULATION PANEL WALL 180						
Approval / European Technical Assessment		WF-EN 13171-T5-CS(10/Y)150-TR30-DS(70,-)3-AFr100-WS1,0-MU3				
Recommended density enclosed	kg/m³	180				
Declared thermal conductivity λD	W/mK	0,043				
Thermal conductivity germany λB	W/mK	0,045		0,047		0,043
Fire class (RTF) according to EN 13501-1		E				
Fire class according to DIN 4102-1		B2				
Ingredients		wood fibre, polyurethane resin, paraffin wax				
Manufacturing process		Dry process				
Compression strength at 10% deformation	kPa	150				
Tensile strength perpendicular to face	kPa	30				
Water vapour diffusion resistance factor	μ	3				
Specific heat capacity	J/(kg*K)	2100				
Dynamic stiffness	MN/m³	40 mm < 90, 60mm < 60				
Declared level of airflow resistance	kPa*s/m²	>100				
AVV waste declaration germany		030105/170201, Wood and wood products without dangerous components				
Areas of application according to DIN 4108-10		DAD, DAA ds, DI, DEO ds, WAB ds, WAP, WI, WH, WZ				

FORMATS | EDGES | THICKNESS

2 in 1 the renderable roof panel

▲ Applications: ETICS and underlay board

Format (mm)	Edge	Thickness in mm	m² per pallet	Piece
2525 x 580	N+F	40	82,012	56
		60	55,651	38
2000 x 580		60	44,080	38

SEPARATE LOADING ACCORDING TO PRODUCT TYPES	2000 x 580 mm	2525 x 580 mm
Pallet format:	ca. 200 * 120 * 120 cm	ca. 255 * 120 * 120 cm
Pallets per lorry (Standard lorry: interior 2.40 m wide, 13.60 m long)	26	20
Pallet height (incl. pallet)	130 cm	130 cm

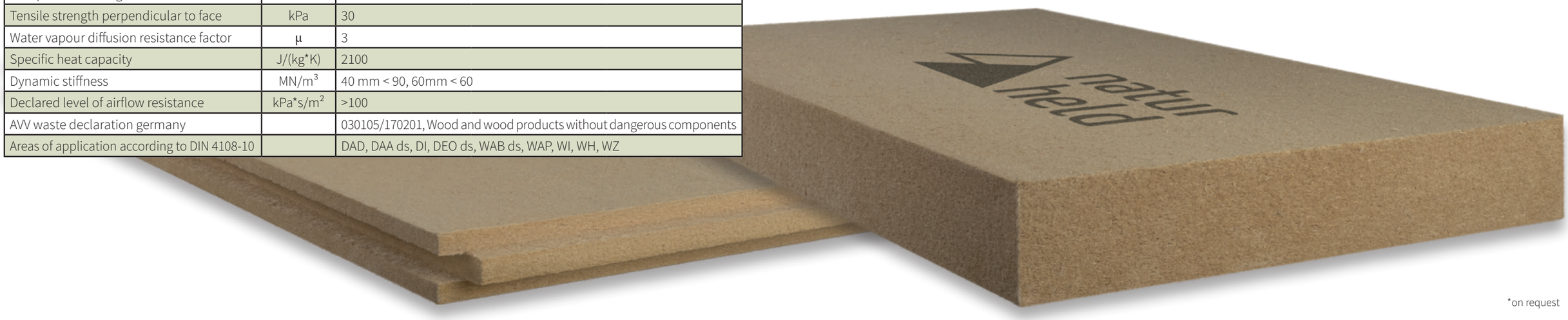
▲ Applications: Large format for prefabrication

Format (mm)	Edge	Thickness in mm	m² per pallet	Piece
2700 x 1250	square edged	60*	64,125	19

Format (mm)	Edge	Thickness in mm	m² per pallet	Piece
3000 x 1250	square edged	60	71,250	19

SEPARATE LOADING ACCORDING TO PRODUCT TYPES	3000 x 1250 mm	2700 x 1250 mm
Pallet format:	ca. 300 * 125 * 120 cm	ca. 270 * 125 * 120 cm
Pallets per lorry (Standard lorry: interior 2.40 m wide, 13.60 m long)	8	10
Pallet height (incl. pallet)	130 cm	130 cm

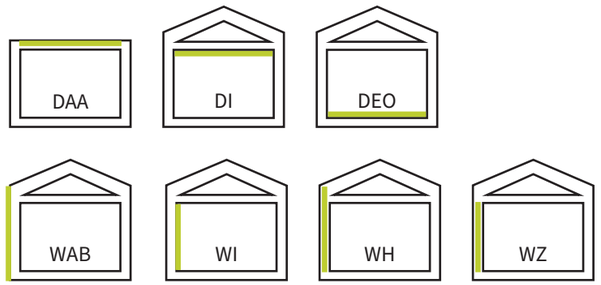
All dimensions are effective measure, tongue and groove depth 2.5 cm **NOTE:** In the case of panels with tongue & groove as well as a rebated edge, we charge coverage dimensions. This results in price savings of approx. 4 – 6%!



*on request

INTERIOR 220

AREAS OF APPLICATION



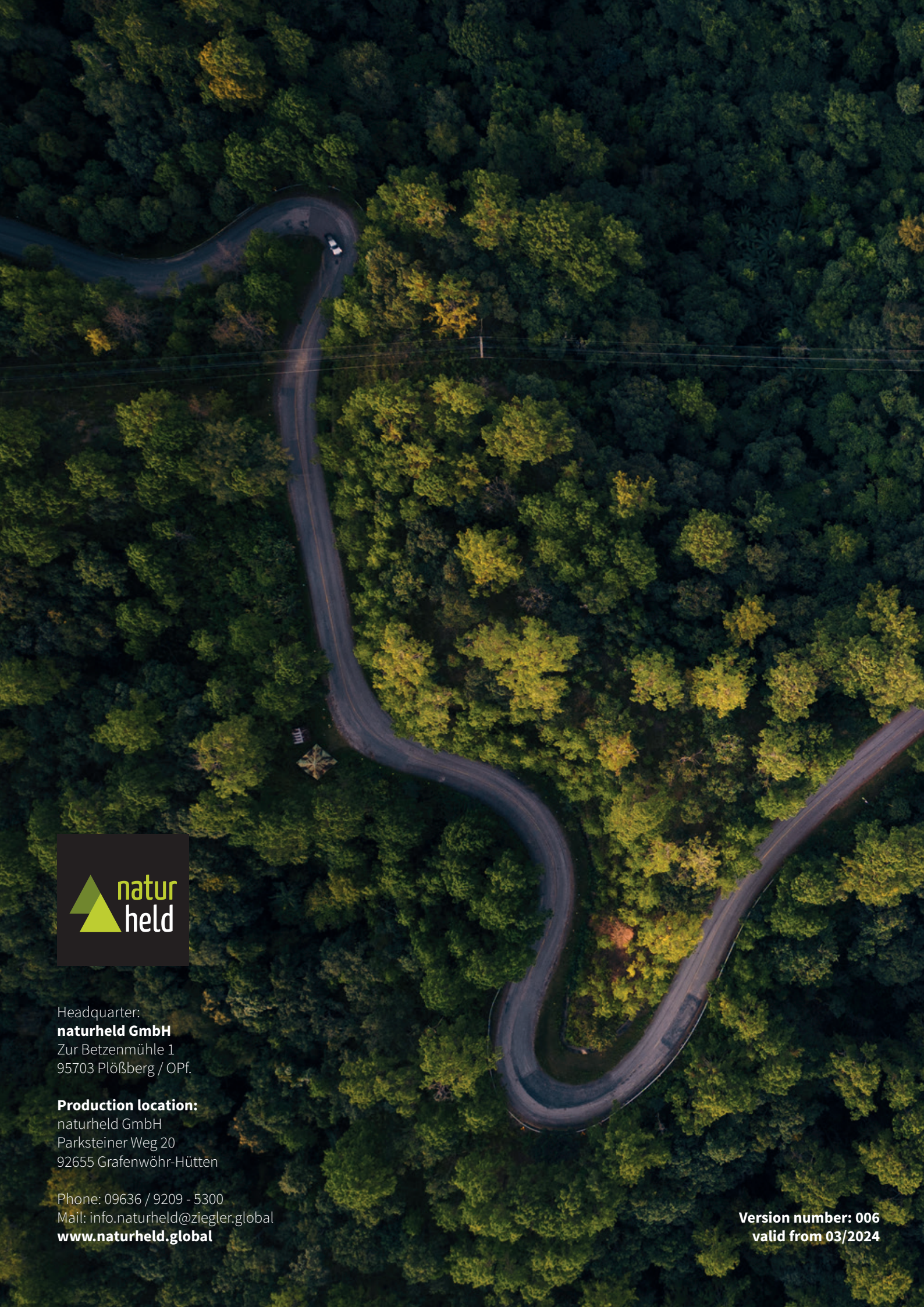
- High-strength insulation panel for various applications
- Pressure-resistant substructure for dry screed
- Suitable for use as reveal board and thin plaster baseboard

PROPERTIES OF NATURHELD WOOD FIBRE INSULATION PANEL INTERIOR 220						
Approval / European Technical Assessment		WF-EN 13171-T5-CS(10/Y)200-TR30-DS(70,-)3-AFr100-WS1,0-MU5				
Recommended density enclosed	kg/m³	220				
Declared thermal conductivity λD	W/mK	0,047				
Thermal conductivity germany λB	W/mK	0,049		0,051		0,047
Fire class (RTF) according to EN 13501-1		E				
Fire class according to DIN 4102-1		B2				
Ingredients		wood fibre, polyurethane resin, paraffin wax				
Manufacturing process		Dry process				
Compression strength at 10% deformation	kPa	200				
Tensile strength perpendicular to face	kPa	30				
Water vapour diffusion resistance factor	μ	5				
Specific heat capacity	J/(kg*K)	2100				
Dynamic stiffness	MN/m³	100				
Declared level of airflow resistance	kPa*s/m²	>100				
AVV waste declaration germany		030105/170201, Wood and wood products without dangerous components				
Areas of application according to DIN 4108-10		DAA ds, DI, DEO ds, WAB ds, WI, WH, WZ				

FORMATS | EDGES | THICKNESS

Format (mm)	Edge	Thickness in mm	m² per pallet	Piece
1500 x 600	square edged	20	100,800	112
		30	68,400	76
		40	50,400	56
		60	34,200	38

SEPARATE LOADING ACCORDING TO PRODUCT TYPES	1500 x 600 mm
Pallet format:	ca. 150 * 120 * 120 cm
Pallets per lorry (Standard lorry: interior 2.40 m wide, 13.60 m long)	34
Pallet height (incl. pallet)	130 cm



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