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WOOD FIBRE INSULATION

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TECHNICAL HOTLINE Phone: 09636 / 9209 - 5454 technik@naturheld.global

AREAS OF APPLICATION

CEILING, ROOF

External insulation of roof or ceiling protected from weathering, insulation under coverings



External insulation of roof or ceiling, protected from weathering, insulation under waterproofing



Insulation between rafters, doubleskin roof, non-walkable but accessible top storey ceilings



nternal insulation of the ceiling (on ne underside) or the roof, insulation nder the rafters/supporting tructure, suspended ceiling, etc.



nternal insulation of the ceiling or floor slab (top side) under screed without sound insulation requirements



WALL

External insulation of the wal behind cladding



kternal insulation of the wall under laster



Insulation of double-skin walls, core



Insulation of timber frame and timber panel construction



Interior wall insulation



Insulation of partition walls



A

naturheld Product overview





ELIGIBLE BUILDINGS WITH NATURHELD:

Our insulating materials fulfil all the requirements of the QNG directive!



SUSTAINABLE:

- Wood chips as a
- sawmill by-product
 Wood chips for own
 heating plant
 Electricity from
- sustainable energy sources



ECOLOGICAL:

- 100% wood utilisation
- Water treatment at the plant
- Our pallets are disposable pallets from our own
- wood fibre residues are brought back into production



PEFC CERTIFIED

This product comes from sustainably managed forests and controlled sources.

www.pefc.de



Research centre QUANTENSPRUNG

INNOVATIVE:

• In our newly designed research centre, we are developing pioneering new solutions for timber construction



ZIEGLER LOGISTIK

RELIABLE:

Over 230 low-emission, companyowned, lorries





REGIONAL:

- Made in Germany, Bayern
- Wood chips from the sawmill just a few kilometres away

PRODUCT FINDER

Product	Format	Edge	Thickness	Applications Din 4108-10			
Product	mm		mm	DAD	DAA	DZ DZ	DZ DZ
Product				Rafter insulation under cover sarking board	Insulation under waterproofing flat roof	Insulation between rafters, cavity insulation	for attic cealings
naturheld FLOW Page 16							not walkable
naturheld FLEX Page 18	1220x575	square edged	30-240 (-300*)				not walkable
	1250x625	square edged	40-80				not walkable
naturheld 100 Page 26	1250x600	square edged	60-160				
naturheld 110 Page 28	1250x600	square edged	80-100				
	1200x400	square edged	120-200				
naturheld 140 Page 30	1250x600	square edged	40-60				
	1880x615	T+G	60-180 (-220*)				
naturheld 180 Page 32	1880x615	T+G	40-120				
	2550x615	T+G	40-60				
	2550x1185	T+G	60				
naturheld 220 Page 34	1250x600	square edged	22-35				
	2550x615	T+G	22-35				

on request ** behind water-dra

** behind water-draining layer

Suitable product:

...you will find the right product for your application!

	Applications Din 4108-10							
DI	DEO DEO	WAB	WAP	WZ WZ	WH	WI	WI	WTR
Interior insulation Roof and ceiling underside	Insulation Floor under screed	Insulation behind a curtain wall	External plastered insulation, approved as ETICS insulation	Insulation between double-ski walls with ventilation	Panelling of timber frame construction and timber panel construction walls, especially prefabrication	Interior wall insulation, plastered Note: from 60mm insulation, the structure must be inspected	Interior wall insulation panelled	Insulation of partition walls
				**				Wooden construction
				**				Metal construction
				**				
				**				
				**				
			80-160					
			40-60					
			Soffit panel					

naturheld product overview



The new naturheld formula for wood fibre insulation

VERSATILE APPLICATION POSSIBILITIES

The versatile application possibilities of the products enable economical warehousing.

PROFILING ADAPTED TO THE PANEL THICKNESS

With the thinner panels, the tongue is shorter, 20 and 22 instead of 24 mm. This makes it even more robust and production is more efficient. The 10mm sealing flank is still retained.

MORE COVERAGE WITH THE SAME GROSS PANEL SIZE

The panels are all milled from the same gross formats, the shorter edge profiling means there is less waste in production and the cover dimension is larger in relation to the gross panel size.

OPTIMISED SURFACE STRUCTURE FOR INCREASED SLIP RESISTANCE AND SURE-FOOTEDNESS

The clear structuring of the surface improves slip resistance on the roof and the rendering of the façade.



OUR NEW GENERATION 2.0









naturheld 110

naturheld 140

naturheld 180

naturheld 220
A Page 34





CAN BE USED VARIABLY FOR ROOF, WALL AND FLOOR

Whether solid, flexible or as loose fibres, our new naturheld products are always the best choice for insulating new and old buildings. The curved edges enable faster installation, which not only saves time but also labour and costs. Thanks to optimised production, the prices remain as favourable as ever.

The solid boards are symmetrically equipped with tongue and groove and can be used efficiently and quickly as a water-repellent, robust underlay board for walls or internal insulation. Modern roof constructions can be easily realised with a solid naturheld insulation board as a rainproof sub-roof in accordance with ZVDH regulations from a roof pitch of 15°. A thermal insulation composite system (ETICS) as an external wall construction can also be fully insulated with our insulation boards and permanently and effectively protected from the weather with coordinated plaster systems.

9 REASONS FOR NATURHELD...

WHY WOOD FIBRE INSULATION

FOR OUR ENVIRONMENT

Our entire company is consistently orientated towards the guiding principle: 'From tree to house'. It is of great importance to us to utilise the entire trunk and thus to work ef-ficiently and conserve resources. The combined goal of the different divisions: innovative and affordable timber houses for everyone.

Compared to its competitors, naturheld therefore has the invaluable advantage of being able to use material from its own sawmills. In addition, naturheld GmbH can use its own wood waste, such as sapwood and bark, to generate the energy required for gasification, and unlike chewed wood waste, the quality is always consistent. Even the ash contained in the flue gas can be reused. The separated components are used as fertiliser.

FOR EVERYONE - BECOME CHANGE ITSELF

Climate protection is of the utmost importance to us. Our insulation materials bind the CO2 contained in the wood and store it for the entire service life of the building. With our naturheld products, we can all help to reduce our carbon footprint and make a joint contribution to climate protection. Together, we can make smart decisions to reduce and reverse global warming. We cordially invite you to join us on our journey to a more sustainable future.



WATER-REPELLENT

Underlay boards are hydrophobised throughout and can be used on both sides.



OPTIMAL SOUND INSULATION

Reduces noise and ensures pleasant acoustics.



100 % NATURAL

PEFC-certified wood from regional forest areas



DIFFUSION-OPEN BUILDING

High room air quality for good sleep and well-being.



HEALTHY LIVING

Natural insulation made from regional wood without questionable additives.



HEAT PROTECTION IN SUMMER

Cools in summer



PROTECTION FROM THE COLD IN WINTER

Keeps you reliably warm in winter



HIGH LEVEL OF FIRE PROTECTION

Very slow fire progress due to heat protection and charring



CLIMATE PROTECTION

Thanks to the carbon bound in the wood, naturheld insulation actively removes CO₂.



66

Just a few years ago, it was just a vision. Today, it has become my personal mission: We only have a few viable factors to positively influence climate change. One of the realisable solutions is a shift towards building with wood across the board. I am committed to this turnaround with all the possibilities that my company offers in the various stages of production. It is the driving force behind my actions.

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naturheld FLOW





PACKAGING DETAILS

AREAS OF APPLICATION DIN 4108-10: DZ, DI-zk, WH, WI-zk, WTR





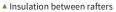












- ▲ Compartment insulation of walls in timber frame and timber stud construction
- ▲ Insulation of wooden joist ceilings
- ▲ Insulation of the attic ceilings
- ▲ Insulation of installation levels
- ▲ Insulation of ribbing on mineral substrates

TECHNICAL DATA:

Label		ETA-23/0125		
DoP / Declaration of Performance		Flow_01.09.24		
Density		kg/m³	33-45	
Nominal thermal conductivity λD EU	0	W/(mK)	0,038	
	λB DE	W/(mK)	0,040	
Rated thermal conductivity	λв СН +	W/(mK)	0,038	
	λВ АТ	W/(mK)	0,039	
Fire behaviour according to DIN EN	13501-1		Е	
PN-EN 13823+A1: 2022-12			B s2 d0	
Building material class according to	DIN 4102-1		B2	
Full declaration		Wood fibres, ammonium sulphate (fire retardant)		
Water vapour diffusion resistance fa	actor		μ1-2	
Specific heat capacity		J/(kgK)	2100	
Waste key numbers according to AV	V	030105/170201, Wood and wood-base	ed materials, waste wood category A II	

PACKAGING / WEIGHT

Packaging of the bales Weight per bale (kg)		Bales per pallet	Weight of the pallet (kg)	
foiled	foiled 15		315	
unfoiled	20	18	360	

Pallet dimensions (approx.)	Pallets per lorry
1200 x 800 x 2550 (L x W x H)	32





naturheld FLEX

AREAS OF APPLICATION DIN 4108-10: DZ, DI-zk, WH, WI-zk, WTR

















- ▲ Insulation between rafters
- ▲ Compartment insulation of walls in timber frame and timber stud construction
- ▲ Insulation of wooden joist ceilings
- ▲ Insulation of the attic ceilings
- ▲ Insulation of installation levels
- ▲ Insulation of ribbing on mineral substrates

TECHNICAL DATA:

	WF-EN 13171-T3-MU1/2-AFr10		
	kg/m³	50	
EU	W/(mK)	0,036	
λB DE	W/(mK)	0,038	
λВ СН	W/(mK)	0,036	
λВ АТ	W/(mK)	0,037	
EN 13501-1		E	
to DIN 4102-1		B2	
	Wood fibres, PP / PE (binding fibre),	ammonium sulphate (fire retardant)	
	kPa*s/m²	5 bis 60mm, 6 ab 80mm	
e factor		μ 1-2	
Specific heat capacity		2100	
Waste key numbers according to AVV		030105/170201, Wood and wood-based materials, waste wood category A II	
	λΒ DE λΒ CH λΒ AT EN 13501-1 g to DIN 4102-1	kg/m³ EU W/(mK) AB DE W/(mK) AB CH W/(mK) AB AT W/(mK) EN 13501-1 g to DIN 4102-1 Wood fibres, PP / PE (binding fibre), kPa*s/m² e factor J/(kgK)	

PACKAGING INFORMATION

TIMBER FRAME CONSTRUCTION, WIDTH 575MM

Format (mm)	Thickness (mm)	m²/pallet	pcs/pallet	Packages/ pallet	m²/package
	30*	112,24	160	10	11,22
	40	84,18	120	10	8,42
	50	67,34	96	8	8,42
	60	56,12	80	8	7,02
	80	42,09	60	10	4,21
	100	33,67	48	8	4,21
	120	28,06	40	8	3,51
	140	22,45	32	8	2,81
1220x575	160	21,05	30	10	2,10
	180	16,84	24	8	2,10
	200	16,84	24	8	2,10
	220*	14,03	20	10	1,40
	240	14,03	20	10	1,40
	260*	11,22	16	8	1,40
	280*	11,22	16	8	1,40
	300*	11,22	16	8	1,40

DRY CONSTRUCTION WITH METAL PROFILES, WIDTH 625MM

Format (mm)	Thickness (mm)	m²/pallet	pcs/pallet	Packages/ pallet	m²/package
	40	93,75	120	10	9,38
1250x625	60	62,50	80	8	7,81
	80	46,88	60	10	4,69

Panel format (mm)	Pallet dimensions (approx.)	Pallets per lorry
1220x575	1220 x 1150 x 2550 (L x W x H)	22
1250x625	1250 x 1200 x 2550 (L x W x H)	20

^{*}on request







The new naturheld edge profiling

OPTIMISED FORMATS:

LENGTH: 1.500 becomes **1.250** | 2.000 becomes **1.880**

This means that the Generation 2.0 can be installed more quickly on roofs and walls, and the adapted length means that more cubic metres fit into a lorry.

WIDTH: 580 net becomes **615 GROSS**

The panels are all milled from the same gross formats, the shorter edge profiling means there is less waste in production and the cover dimension is larger in

relation to the gross panel size.

615 GROSS

1.250 / 1.880 / 2.550

AREAS OF APPLICATION DIN 4108-10: WI, WH, WZ, DZ



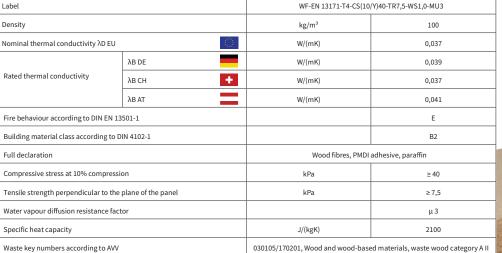






- ▲ New, high-performance, lightweight insulation board
- ▲ For the attic ceiling
- ▲ For roof insulation on formwork or CLT
- ▲ For interior insulation













PACKAGING INFORMATION

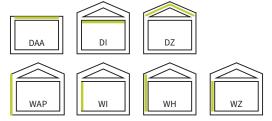
STANDARD FORMAT

Format (mm)	Edge	Thickness (mm)	m²/pallet	pcs/pallet
		40	42,00	56
		60	28,50	38
	square-edged	80	21,00	28
1250x600		100	16,50	22
		120	13,50	18
		140	12,00	16
		160	10,50	14

Pallet dimensions (approx.)	Pallets per lorry
1250 x 1200 x 1300 (L x W x H)	44



AREAS OF APPLICATION DIN 4108-10: DAA-dh, DI, DZ, WAP, WI, WH, WZ



- ▲ High-performance insulation board for numerous applications
- ▲ Can be plastered directly as ETICS insulation
- ▲ Numerous approved plaster systems
- ▲ Can be plastered or clad directly for interior insulation
- ▲ For the attic ceilings
- ▲ For roof insulation on formwork or CLT
- ▲ Suitable for flat roof insulation

TECHNICAL DATA:

Label		WF-EN 13171-T5-CS(10/Y)50-TR15-DS(70,-)3-AFr20-WS1,0-MU3		
Density		kg/m³	110	
Nominal thermal conductivity λD EU	0	W/(mK)	0,039	
Rated thermal conductivity	λB DE	W/(mK)	0,041	
	λВ CH +	W/(mK)	0,039	
	λВ АТ	W/(mK)	0,043	
Fire behaviour according to DIN EN 13501-1			Е	
Building material class according to DIN 4102-1			B2	
Full declaration		Wood fibres, PMDI adhesive, paraffin		
Compressive stress at 10% compression		kPa	≥ 50	
Tensile strength perpendicular to the plane of the panel		kPa	≥ 15	
Water vapour diffusion resistance fac	tor		μ3	
Specific heat capacity		J/(kgK)	2100	
Dynamic stiffness		MN/m³	80mm<40, 100mm<30, 160mm<20	
Linear flow resistance		kPa*s/m²	80mm>50, 100mm>45, 160mm>35	
Waste key numbers according to AVV		030105/170201, Wood and wood-bas	ed materials, waste wood category A II	

Previous name: naturheld Wand 110







PACKAGING INFORMATION

STANDARD FORMAT

Format (mm)	Edge	Thickness (mm)	m²/pallet	pcs/pallet
		80	21,00	28
1250x600		100	16,50	22
		120	12,96	27
	square-edged	140	11,52	24
1200×400		160	10,08	21
		180	8,64	18
		200	7,20	15

Panel format (mm)	Pallet dimensions (approx.)	Pallets per lorry
1250x600 1250 x 1200 x 1300 (L x W x H)		44
1200x400	1200 x 1200 x 1300 (L x W x H)	44



AREAS OF APPLICATION DIN 4108-10: DAD, DAA-ds, DI, DEO-ds, WAB ds, WAP, WI, WH, WZ, DZ







- ▲ Universal, lightweight insulation board
- ▲ UDP-A underlay board as a rainproof sub-roof in accordance with ZVDH regulations from a roof pitch of 15° (N+F 60-180mm)
- ▲ UDP-A: Tested as a rainproof sub-roof in accordance with ÖN B4119 by Holzforschung Austria (N+F 60-180mm)
- ▲ ETICS insulation can be plastered directly, for timber frame construction and stud frame (N+F 80-160mm)
- ▲ Numerous approved plaster systems
- ▲ 4 weeks freely weatherable
- ▲ For rear-ventilated facades
- ▲ Can be plastered or clad directly for interior insulation
- ▲ For the attic ceilings
- ▲ For floor insulation under wet screed
- ▲ Suitable for flat roof insulation

TECHNICAL DATA:

Label		WF-EN 13171-T5-CS(10/Y)100-TR20-DS(70,-)3-AFr60-WS1,0-MU3		
Density		kg/m³	140	
Nominal thermal conductivity λD EU	0	W/(mK)	0,041	
Rated thermal conductivity	λB DE	W/(mK)	0,043	
	λВ СН	W/(mK)	0,041	
	λВ АТ	W/(mK)	0,045	
Fire behaviour according to DIN EN 13501-1			E	
Building material class according to DIN 4102-1			B2	
Full declaration		Wood fibres, PMDI adhesive, paraffin		
Compressive stress at 10% compression		kPa	≥ 100	
Tensile strength perpendicular to the plane of the panel		kPa	≥ 20	
Water vapour diffusion resistance fac	ctor		μ3	
Specific heat capacity		J/(kgK)	2100	
Dynamic stiffness		MN/m³	60mm<65, 80mm<50, 140mm<30	
Linear flow resistance		kPa*s/m² >60		
Waste key numbers according to AVV		030105/170201, Wood and wood-based materials, waste wood category A		

[▲] Previous name: naturheld Wand 140

PACKAGING INFORMATION

LARGE FORMAT, FOR THE INSTALLATION LEVEL IN PREFABRICATION

Format (mm) Edge		Thickness (mm)	m²/pallet	pcs/pallet
2635x1250	square-edged	50*	72,46	22

INTERIOR INSULATION AND INSTALLATION LEVEL

Format (mm)	Edge	Thickness (mm)	m²/pallet	pcs/pallet
4050 000		40	42,00	56
1250x600	square-edged	60	28,50	38

WITH TONGUE AND GROOVE, FOR FAÇADES AND ROOFS

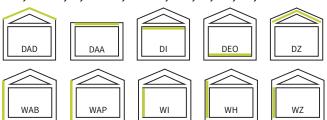
Format (mm)	Edge	Thickness (mm)	m²/pallet (gross dimension)	m²/pallet (cover dimension)	pcs/pallet		
				60	43,94	41,68	38
		80	32,37	30,71	28		
		100	25,44	24,13	22		
		120	20,81	19,74	18		
1880x615	Generation 2.0 with the new tongue and	140	18,50	17,55	16		
	groove profile	160	16,19	15,36	14		
		180	13,87	13,16	12		
		200*	11,56	10,97	10		
		220*	11,56	10,97	10		

SINGLE-VARIETY LOADING (ON STANDARD LORRY, LOADING SPACE 2,40 X 13,60M)

Panel format (mm) Pallet dimensions (approx.)		Pallets per lorry
2635x1250	2635 x 1250 x 1300 (L x W x H)	20
1250x600	1250 x 1200 x 1300 (L x W x H)	40
1880x615	1880 x 1210 x 1300 (L x W x H)	28

*on request

AREAS OF APPLICATION DIN 4108-10: DAD, DAA-ds, DI, DEO-ds, WAB-ds, WAP, WI, WH, WZ,DZ







- ▲ Robust universal insulation board
- ▲ UDP-A underlay board as a rainproof sub-roof in accordance with ZVDH regulations from a roof pitch of 15°
- ▲ UDP-A: Tested as a rainproof sub-roof in accordance with ÖN B4119 at Holzforschung Austria
- ▲ ETICS for timber frame construction up to 83.3 cm centre distance
- ▲ Numerous approved plaster systems
- ▲ Can be exposed to the weather for up to 12 weeks if the construction is open from the inside and the insulation board is visible
- ▲ Can be exposed to the weather for 4 weeks when the component has been removed and insulated
- ▲ For rear-ventilated facades
- ▲ Can be plastered directly for interior insulation
- ▲ For the attic ceilings
- ▲ For floor insulation under wet screed
- ▲ Suitable for flat roof insulation

TECHNICAL DATA:

Label		WF-EN 13171-T5-CS(10/Y)150-TR30-DS(70,-)3-AFr100-WS1,0-MU3		
Density		kg/m³	180	
Nominal thermal conductivity λD EU	0	W/(mK)	0,043	
	λB DE	W/(mK)	0,045	
Rated thermal conductivity	λВ СН	W/(mK)	0,043	
	λВ АТ	W/(mK)	0,047	
Fire behaviour according to DIN EN 13501-1			E	
Building material class according to DIN 4102-1			B2	
Full declaration		Wood fibres, PMDI adhesive, paraffin		
Compressive stress at 10% compress	ion	kPa	≥ 150	
Tensile strength perpendicular to the plane of the panel		kPa	≥ 30	
Water vapour diffusion resistance fac	tor		μ3	
Specific heat capacity		J/(kgK)	2100	
Dynamic stiffness		MN/m³	40 mm < 90, 60mm < 60	
Linear flow resistance		kPa*s/m² >100		
Waste key numbers according to AVV		030105/170201, Wood and wood-based materials, waste wood category		

[▲] Previous name: naturheld Wand 180 UDP-A

PACKAGING INFORMATION

LARGE FORMAT, FOR PREFABRICATION

Format (mm)	Edge	Thickness (mm)	m²/pallet (gross dimension)	m²/pallet (cover dimension)	pcs/pallet
3000x1250	square-edged	60*	71,25		19
2550x1185	Generation 2.0 with the new tongue and groove profile	60	57,41	55,72	19

LONG FORMAT WITH TONGUE AND GROOVE, FOR FAST WORK ON ROOFS AND FAÇADES

Format (mm)	Edge	Thickness (mm)	m²/pallet (gross dimension)	m²/pallet (cover dimension)	pcs/pallet
0550 045	Generation 2.0	40	87,82	83,95	56
2550x615	and groove profilel	60	59,59	56,73	38

WITH TONGUE AND GROOVE, FOR FAÇADES AND ROOFS

Format (mm)	Edge	Thickness (mm)	m²/pallet (gross dimension)	m²/pallet (cover dimension)	pcs/pallet	
		40	64,75	61,70	56	
	Generation 2.0 with the new tongue and groove profile		60	43,94	41,68	38
1880x615		80	32,37	30,71	28	
		100	25,44	24,13	22	
		120	20,81	19,74	18	

SINGLE-VARIETY LOADING (ON STANDARD LORRY, LOADING SPACE 2,40 X 13,60M)

Panel format (mm)	Pallet dimensions (approx.)	Pallets per lorry
3000x1250	3000 x 1250 x 1300 (L x W x H)	16
2550x1185	2550 x 1185 x 1300 (L x W x H)	20
2550x615	2550 x 1210 x 1300 (L x W x H)	20
1880x615	1880 x 1210 x 1300 (L x W x H)	28

*on request

AREAS OF APPLICATION DIN 4108-10: DAD, DEO-ds, WAB-ds, WI, WH, WZ



With the new tongue and groove profile:

- ▲ High-strength insulation board for various applications
- ▲ UDP-A underlay board as a rainproof sub-roof in accordance with ZVDH regulations from a roof pitch of 15°
- ▲ UDP-A: Tested as a rainproof sub-roof in accordance with ÖN B4119 by Holzforschung Austria
- ▲ For rear-ventilated facades
- ▲ Can be exposed to the weather for up to 12 weeks if the construction is open from the inside and the insulation board is visible
- ▲ Can be exposed to the weather for 4 weeks when the component has been removed and insulated







Square-edged:

- ▲ Can be plastered directly for interior insulation
- ▲ As reveal panel for ETICS

- ▲ As a pressure-resistant substructure for dry and wet screed

TECHNICAL DATA:

Label		WF-EN 13171-T5-CS(10/Y)200-TR30-DS(70,-)3-AFr100-WS1,0-MU5	
Density		kg/m³	220
Nominal thermal conductivity λD E	U ()	W/(mK)	0,047
	λB DE	W/(mK)	0,049
Rated thermal conductivity	λв СН +	W/(mK)	0,047
	λВ АТ	W/(mK)	0,051
Fire behaviour according to DIN EN 13501-1			E
Building material class according to DIN 4102-1			B2
Full declaration		Wood fibres, PMDI adhesive, paraffin	
Compressive stress at 10% compre	ession	kPa	≥ 200
Tensile strength perpendicular to	he plane of the panel	kPa	≥ 50
Water vapour diffusion resistance	actor		μ5
Specific heat capacity		J/(kgK)	2100
Dynamic stiffness		MN/m³	100
Linear flow resistance		kPa*s/m²	>100
Waste key numbers according to A	w	030105/170201, Wood and wood-based materials, waste wood category	

[▲] Previous name: naturheld Dach 220 and Innen 220

PACKAGING INFORMATION

BOTTOM COVER PANEL WITH PROFILED EDGE

Format (mm)	Edge	Thickness (mm)	m²/pallet (gross dimension)	m²/pallet (cover dimension)	pcs/pallet
2552 245	Generation 2.0	22	163,10	156,56	104
2550x615 with the new tongue and groove profile	35	100,37	95,94	64	

SQUARE-EDGE

Format (mm)	Edge	Thickness (mm)	m²/pallet	pcs/pallet
4070.000	60x600 square-edged -	22	78,00	104
1250x600		35	48,00	64

Panel format (mm)	Pallet dimensions (approx.)	Pallets per lorry
2550x615	2550 x 1210 x 1300 (L x W x H)	20
1250x600	1250 x 1200 x 1300 (L x W x H)	40



naturheld LVL P

- ▲ Laminated veneer lumber made from rotary-cut softwood veneers
- ▲ For bar-shaped components such as beams or columns
- ▲ High strength and high resistance to deformation
- ▲ Slim cross-sections with high dimensional stability
- ▲ Consisting exclusively of longitudinal veneer layers

TECHNICAL DATA:

	VMG LIGNU H= 30	UM LVL 48P 00 MM	GLUED TIMBER GL 24H H= 300 MM		SAWN TIMBER C24 H=300MM		24	
	STRENGTH MPA	THICKNESS MM	STRENGTH MPA	THICKNESS MM	INCREASED MATERIAL CONSUMPTION COMPARED TO LVL	STRENGTH MPA	THICKNESS MM	INCREASED MATERIAL CONSUMPTION COMPARED TO LVL
Bending strength, on edge, parallel to the grain	44,0	45	24,0	80	78%	24,0	89	99%
Tensile strength, parallel to the grain	39,0	45	19,2	89	97%	14,5	131	191%
Compressive strength, parallel to the grain	39,0	45	24,0	76	69%	21,0	91	101%
Compressive strength, perpendicular to the grain	7,0	45	2,5	131	192%	2,5	137	203%
Shear strength, upright, parallel to the grain	4,6	45	3,5	72	60%	4,0	75	66%
Modulus of elasticity, mean value, parallel to the fibre	14 000	45	11 500	55	22%	11 000	57	27%

PACKAGING INFORMATION

STANDARD FORMAT

THICKNESS IN MM	WIDTH IN MM	LENGTH IN MM	STK/PACKAGE	M³/PACKAGE
39	240	13000	30	3,650
39	300	13000	24	3,650
45	100	13000	72	4,212
45	120	13000	60	4,212
45	160	13000	42	3,931
45	200	13000	36	4,212
45	240	13000	30	4,212
45	300	13000	24	4,212
45	360	13000	18	3,791
45	400	13000	18	4,212
57	200	13000	24	3,557
57	240	13000	20	3,557
57	300	13000	16	3,557
75	240	13000	20	4,680
75	300	13000	16	4,680

	PACKAGE OPENING	CUTTING	JOINING	
ADDITIONAL COSTS OPTIONAL	✓	✓	✓	



naturheld Particleboard P5

TECHNICAL DATA:

	Unit	P5			
	mm	10-12	15-20	> 20-22	38
Bending strength (lengthwise)	N/mm²	≥ 18	≥16	≥ 14	≥10
Bending strength (transverse)	N/mm²	≥ 18	≥16	≥ 14	≥10
Modulus of elasticity (lengthwise)	N/mm²	≥ 2550	≥ 2400	≥2150	≥ 1700
Modulus of elasticity (transverse)	N/mm²	≥ 2550	≥ 2400	≥2150	≥1700
Shear strength	N/mm²	≥ 0,45	≥ 0,45	≥ 0,40	≥ 0,30
24h thickness swelling	%	11	10	10	9
Formaldehyde class	Class		E	1	
Vapour permeability S _d	m	15/50 0,12			
Thermal conductivity λ	W/(m*k)				
Fire resistance class	Class		D-s2	2, d0	

PACKAGING INFORMATION

NATURHELD PARTICLE BOARD P5 T+G

THICKNESS IN MM	WIDTH IN MM (COVER SIZE)	LENGTH IN MM (COVER SIZE)	STK/PACKAGE	M² / PALLET
22	600	2400	40	57,60





PACKAGING INFORMATION

NATURHELD CE ROOF BATTENS TS ACCORDING TO DIN 4074-1 S10

THICKNESS IN MM	WIDTH IN MM	LENGTH IN MM	STK/PACKAGE	M³/PACKAGE
30	50	4000	560	3,360
30	50	5000	560	4,200
40	60	4000	378	3,629
40	60	5000	378	4,536

NATURHELD FRAME C24 LEVELLED

THICKNESS IN MM	WIDTH IN MM	LENGTH IN MM	STK/PACKAGE	M3/PACKAGE
40	80	4000	308	3,942

OUR CERTIFICATES



NATURHELD "WALD-TÜV" TESTED

PEFC is a transparent and independent system for ensuring sustainable forest management. PEFC certification is therefore a kind of global 'forest MOT'. Wood and paper products with the PEFC seal come from ecologically, economically and socially sustainable forest management. Naturheld's sustainable production naturally only uses PEFC-certified wood from forest areas in Bavaria.



CE KONFORM - EU-WIDE PROMISE OF QUALITY

CE stands for 'Conformité Européenne' - 'European Conformity'. The CE marking of our Naturheld products proves that our wood fibre insulation meets all the applicable basic requirements of the European Union, e.g. in terms of warranty, health protection, safety standards and environmental and consumer protection. To this end, our products have successfully undergone conformity assessment procedures. Processors throughout the EU can benefit from our CE quality promise.



ISO 50001 CERTIFICATE: MAXIMUM ENERGY EFFICIENCY

Naturheld's high energy efficiency has been recognised: ISO 50001 certifies companies' futureoriented energy management systems at European level. Efficiency potential is to be tapped, energy costs reduced and greenhouse gas emissions minimised. It is logical that we score highly with our 100% self-generated heat from bark and the use of wood as a sustainable raw material for our insulation products.



FOR A FUTURE THAT IS FRIENDLY TO WOOD

We support the German Timber Industry Council's (DHWR) initiative for active climate protection. The vision is to establish the central role of wood in a sustainable, climate-friendly future. Germany should be a leader in the utilisation and processing of sustainable, domestic wood - for the benefit of the climate, our forests and people, and the initiative should secure jobs in the timber industry while making an important contribution to global warming.



NATURHELD IS 'QNG READY'

The 'Quality Seal for Sustainable Buildings' (QNG) is a state seal of approval that takes a holistic view of a building and its surroundings: the focus is not only on energy consumption, but also on the entire life cycle of the materials - from production to recycling. Products labelled 'QNG ready' fulfil the requirements catalogue of the QNG label's profile 3.1.3. This helps planners, construction companies and investors to choose from those building products that make QNG certification of the entire building possible in the first place.our Naturheld wood fibre insulation is 'QNG ready'. This means that our products can be used perfectly in the construction of subsidised sustainable buildings - whether new or old.



OUR TEAM





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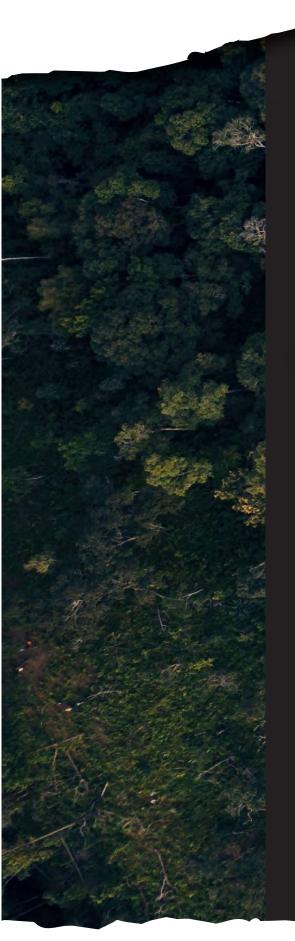
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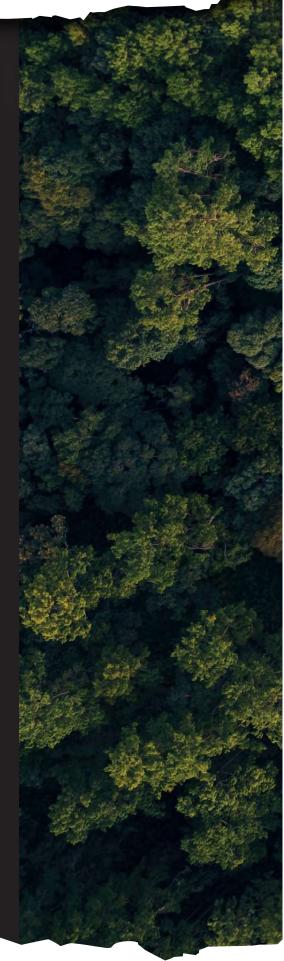
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