



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



# naturheld 110





Compression-resistant wood fibre insulation board

## Advantages and characteristics

- 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 top storey ceiling
- For roof insulation on formwork or CLT
- Suitable for flat roof insulation



## Technical Data

<b>Labelling</b>	WF-EN 13171-T5-CS(10/Y)50-TR15-DS(70,-)3-AFr20-WS1,0-MU3		
<b>Density</b>	kg/m <sup>3</sup>	110	
<b>Nominal thermal conductivity <math>\lambda_b</math> EU</b>		W/(mK)	0,039
<b>Rated thermal conductivity</b>	$\lambda_b$ DE		W/(mK) 0,041
	$\lambda_b$ CH		W/(mK) 0,039
	$\lambda_b$ AT		W/(mK) 0,043
<b>Fire behaviour according to DIN EN 13501-1</b>	E		
<b>Building material class according to DIN 4102-1</b>	B2		
<b>Full declaration</b>	Wood fibres, PMDI adhesive, paraffin		
<b>Compressive stress at 10% compression</b>	kPa	≥ 50	
<b>Tensile strength perpendicular to the plane of the panel</b>	kPa	≥ 15	
<b>Linear flow resistance</b>	kPa*s/m <sup>2</sup>	80 mm > 50, 100 mm > 45, 160 mm > 35	
<b>Water vapour diffusion resistance factor</b>	μ 3		
<b>Specific heat capacity</b>	J/(kgK)	2100	
<b>Dynamic stiffness</b>	MN/m <sup>3</sup>	80 mm < 40, 100 mm < 30, 160 mm < 20	
<b>Waste key numbers according to AVV</b>	030105/170201, Wood and wood-based materials, waste wood category A II		

Generation 2.0



 MADE IN GERMANY



## Delivery form

### FORMAT 1880 x 615 mm · FOR FAÇADES AND ROOFS · WITH TONGUE AND GROOVE

Thickness (mm)	Cover dimension (mm)	m <sup>2</sup> /pallet (gross dimension)	m <sup>2</sup> /pallet (cover dimension)	pcs/pallet
60*	1856 x 591	43,94	41,68	38
80*	1856 x 591	32,37	30,71	28
100*	1856 x 591	25,44	24,13	22
120*	1856 x 591	20,81	19,74	18

### FORMAT 1200 x 400 mm · FOR FAÇADES AND ROOFS · SQUARE-EDGED

Thickness (mm)	m <sup>2</sup> /pallet	pcs/pallet
100	15,84	33
120	12,96	27
140	11,52	24
160	10,08	21
180	8,64	18
200	7,20	15

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

Panel format (mm)	Pallet dimensions (mm; approx.)	Pallets per lorry
1880 x 615	1885 x 1210 x 1300 (L x W x H)	28
1200 x 400	1200 x 1200 x 1300 (L x W x H)	44

\*auf Anfrage



## AREAS OF APPLICATION

### DIN 4108-10:

DAD, DAA-ds, DI, DEO-ds,  
WAB ds, WAP, WI, WH, WZ, DZ



# naturheld 140

## Compression-resistant wood fibre insulation board

### Advantages and characteristics

- Universal, lightweight insulation board
- UDP-A underlay board as a rainproof sub-roof in accordance with ZVDH regulations from a roof pitch of 15° (T+G 60-180mm)
- UDP-A: Tested as a rainproof sub-roof in accordance with ÖN B4119 by Holzforschung Austria (T+G 60-180mm)
- ETICS insulation can be plastered directly, for timber frame construction and stud frame (T+G 80-160mm)
- Numerous approved plaster systems
- Can be exposed to the weather for 4 weeks before protecting, when installed on a solid structure
- For rear-ventilated facades in which case the insulation boards can be exposed to the elements for up to 4 months
- Can be plastered or clad directly for interior insulation
- For the top storey ceiling
- For floor insulation under wet screed
- Suitable for flat roof insulation



### Technical Data

<b>Labelling</b>	WF-EN 13171-T5-CS(10/Y)100-TR20-DS(70,-)3-AFr60-WS1,0-MU3		
<b>Density</b>	kg/m <sup>3</sup>	140	
<b>Nominal thermal conductivity <math>\lambda_b</math> EU</b>		W/(mK)	0,041
<b>Rated thermal conductivity</b>	$\lambda_b$ DE	W/(mK)	0,043
	$\lambda_b$ CH	W/(mK)	0,041
	$\lambda_b$ AT	W/(mK)	0,045
<b>Fire behaviour according to DIN EN 13501-1</b>	E		
<b>Building material class according to DIN 4102-1</b>	B2		
<b>Full declaration</b>	Wood fibres, PMDI adhesive, paraffin		
<b>Compressive stress at 10% compression</b>	kPa	≥ 100	
<b>Tensile strength perpendicular to the plane of the panel</b>	kPa	≥ 20	
<b>Linear flow resistance</b>	kPa*s/m <sup>2</sup>	> 60	
<b>Water vapour diffusion resistance factor</b>	$\mu$ 3		
<b>Specific heat capacity</b>	J/(kgK)	2100	
<b>Dynamic stiffness</b>	MN/m <sup>3</sup>	60 mm < 65, 80 mm < 50, 140 mm < 30	
<b>Waste key numbers according to AVV</b>	030105/170201, Wood and wood-based materials, waste wood category A II		

Generation 2.0



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## Delivery form

### FORMAT 1250 x 600 mm · INTERIOR INSULATION · SQUARE-EDGED

Thickness (mm)	m <sup>2</sup> / pallet	pcs/pallet
40*	42,00	56
60*	28,50	38

### FORMAT 1880 x 615 mm · FOR FAÇADES AND ROOFS · WITH TONGUE AND GROOVE

Thickness (mm)	Cover dimension (mm)	m <sup>2</sup> /pallet (gross dimension)	m <sup>2</sup> /pallet (cover dimension)	pcs/pallet
60	1856 x 591	43,94	41,68	38
80	1856 x 591	32,37	30,71	28
100	1856 x 591	25,44	24,13	22
120	1856 x 591	20,81	19,74	18
140	1856 x 591	18,50	17,55	16
160	1856 x 591	16,19	15,36	14
180	1856 x 591	13,87	13,16	12
200*	1856 x 591	11,56	10,97	10
220*	1856 x 591	11,56	10,97	10

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

Panel format (mm)	Pallet dimensions (mm; approx.)	Pallets per lorry
1250 x 600	1250 x 1200 x 1300 (L x W x H)	40
1880 x 615	1880 x 1210 x 1300 (L x W x H)	28

\*auf Anfrage



## AREAS OF APPLICATION

### DIN 4108-10:

DAD, DAA-ds, DI, DEO-ds,  
WAB-ds, WAP, WI, WH, WZ,DZ



# naturheld 180

## Compression-resistant wood fibre insulation board

### Advantages and characteristics

- 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 before protecting, when installed on a solid structure
- For rear-ventilated facades, in which case the insulation boards can be exposed to the elements for up to 4 months
- Can be plastered directly for interior insulation
- For the top storey ceiling
- For floor insulation under wet screed
- Suitable for flat roof insulation



### Technical Data

<b>Labelling</b>	WF-EN 13171-T5-CS(10/Y)150-TR30-DS(70,-)3-AFr100-WS1,0-MU3		
<b>Density</b>	kg/m <sup>3</sup>		180
<b>Nominal thermal conductivity <math>\lambda_b</math> EU</b>	W/(mK)		0,043
<b>Rated thermal conductivity</b>	$\lambda_b$ DE		W/(mK) 0,045
	$\lambda_b$ CH		W/(mK) 0,043
	$\lambda_b$ AT		W/(mK) 0,047
<b>Fire behaviour according to DIN EN 13501-1</b>		E	
<b>Building material class according to DIN 4102-1</b>	B2		
<b>Full declaration</b>	Wood fibres, PMDI adhesive, paraffin		
<b>Compressive stress at 10% compression</b>	kPa		≥ 150
<b>Tensile strength perpendicular to the plane of the panel</b>	kPa		≥ 30
<b>Linear flow resistance</b>	kPa*s/m <sup>2</sup>		> 100
<b>Water vapour diffusion resistance factor</b>	$\mu$ 3		
<b>Specific heat capacity</b>	J/(kgK)		2100
<b>Dynamic stiffness</b>	MN/m <sup>3</sup>		40 mm < 90, 60 mm < 60
<b>Waste key numbers according to AVV</b>	030105/170201, Wood and wood-based materials, waste wood category A II		

Generation 2.0



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# Delivery form

## FORMAT 1880 x 615 mm · FOR FAÇADES AND ROOFS · WITH TONGUE AND GROOVE

Thickness (mm)	Cover dimension (mm)	m <sup>2</sup> /pallet (gross dimension)	m <sup>2</sup> /pallet (cover dimension)	pcs/pallet
40	1858 x 593	64,75	61,70	56
60	1856 x 591	43,94	41,68	38
80	1856 x 591	32,37	30,71	28
100	1856 x 591	25,44	24,13	22
120	1856 x 591	20,81	19,74	18

## LONG FORMAT 2550 x 615 mm · FOR FAÇADES AND ROOFS · WITH TONGUE AND GROOVE

Thickness (mm)	Cover dimension (mm)	m <sup>2</sup> /pallet (gross dimension)	m <sup>2</sup> /pallet (cover dimension)	pcs/pallet
40	2528 x 593	87,82	83,95	56
60	2526 x 591	59,59	56,73	38

## LARGE FORMAT 2700 x 1250 mm AND 3000 x 1250 mm · FOR PREFABRICATION · SQUARE-EDGED

Format (mm)	Thickness (mm)	Cover dimension (mm)	m <sup>2</sup> /pallet (cover dimension)	pcs/pallet
2700 x 1250	60*	2700 x 1250	64,13	19
3000 x 1250	60*	3000 x 1250	71,25	19

## LARGE FORMAT 2550 x 1185 mm · FOR PREFABRICATION · WITH TONGUE AND GROOVE

Thickness (mm)	Cover dimension (mm)	m <sup>2</sup> /pallet (gross dimension)	m <sup>2</sup> /pallet (cover dimension)	pcs/pallet
60*	2526 x 1161	57,41	55,72	19

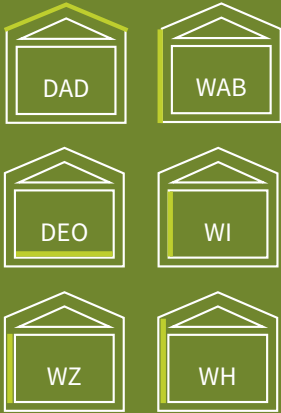
## SINGLE-VARIETY LOADING (ON STANDARD LORRY, LOADING SPACE 2,40 X 13,60M)

Panel format (mm)	Pallet dimensions (mm; approx.)	Pallets per lorry
3000 x 1250	3000 x 1250 x 1300 (L x W x H)	16
2700 x 1250	2700 x 1250 x 1300 (L x W x H)	20
2550 x 1185	2550 x 1185 x 1300 (L x W x H)	20
2550 x 615	2550 x 1210 x 1300 (L x W x H)	20
1880 x 615	1880 x 1210 x 1300 (L x B x H)	28

\*auf Anfrage



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



# naturheld 220

Compression-resistant wood fibre insulation board

## Advantages and characteristics

### 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, in which case the insulation boards can be exposed to the elements for up to 4 months
- 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 before protecting, when installed on a solid structure

### SQUARE-EDGED

- As a pressure-resistant substructure for dry and wet screed
- Can be plastered directly for interior insulation
- As reveal panel for ETICS



## Technical Data

<b>Labelling</b>		WF-EN 13171-T5-CS(10/Y)200-TR35-DS(70,-)3-AFr100-WS1,0-MU5	
<b>Density</b>		kg/m <sup>3</sup>	220
<b>Nominal thermal conductivity <math>\lambda_b</math> EU</b>		W/(mK)	0,047
<b>Rated thermal conductivity</b>	$\lambda_b$ DE 	W/(mK)	0,049
	$\lambda_b$ CH 	W/(mK)	0,047
	$\lambda_b$ AT 	W/(mK)	0,051
<b>Fire behaviour according to DIN EN 13501-1</b>		E	
<b>Building material class according to DIN 4102-1</b>		B2	
<b>Full declaration</b>		Wood fibres, PMDI adhesive, paraffin	
<b>Compressive stress at 10% compression</b>		kPa	≥ 200
<b>Tensile strength perpendicular to the plane of the panel</b>		kPa	≥ 35
<b>Linear flow resistance</b>		kPa*s/m <sup>2</sup>	> 100
<b>Water vapour diffusion resistance factor</b>		μ 5	
<b>Specific heat capacity</b>		J/(kgK)	2100
<b>Dynamic stiffness</b>		MN/m <sup>3</sup>	100
<b>Waste key numbers according to AVV</b>		030105/170201, Wood and wood-based materials, waste wood category A II	

Generation 2.0



 MADE IN GERMANY



## Delivery form

### FORMAT 2550 x 615 mm · BOTTOM COVER PANEL · WITH TONGUE AND GROOVE

Thickness (mm)	Cover dimension (mm)	m <sup>2</sup> /pallet (gross dimension)	m <sup>2</sup> /pallet (cover dimension)	pcs/pallet
22	2530 x 595	163,10	156,56	104
35	2528 x 593	100,37	95,94	64

### FORMAT 1250 x 600 mm · SQUARE-EDGED

Thickness (mm)	m <sup>2</sup> /pallet	pcs/pallet
22	78,00	104
35	48,00	64

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

Panel format (mm)	Pallet dimensions (mm; approx.)	Pallets per lorry
2550 x 615	2550 x 1210 x 1300 (L x W x H)	20
1250 x 600	1250 x 1200 x 1300 (L x W x H)	40

\*auf Anfrage



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



# naturheld FLEX





## Flexible wood fibre insulation batt

### Advantages and characteristics

- Insulation between rafters
- Compartment insulation of walls in timber frame and timber stud construction
- Insulation of timber joist ceilings
- Insulation of the top storey ceilings
- Insulation of installation levels
- Insulation of ribbing on masonry substrates



### Technical Data

<b>Labelling</b>		WF-EN 13171-T3-MU1/2-AFr10	
<b>Density</b>		kg/m <sup>3</sup>	50
<b>Nominal thermal conductivity <math>\lambda_b</math> EU</b>		 W/(mK)	0,036
<b>Rated thermal conductivity</b>	$\lambda_b$ DE 	W/(mK)	0,038
	$\lambda_b$ CH 	W/(mK)	0,036
	$\lambda_b$ AT 	W/(mK)	0,037
<b>Fire behaviour according to DIN EN 13501-1</b>		E	
<b>Building material class according to DIN 4102-1</b>		B2	
<b>Full declaration</b>		Wood fibres, PP / PE (binding fibre), ammonium sulphate (fire retardant)	
<b>Linear flow resistance</b>		kPa*s/m <sup>2</sup>	5 up to 60 mm, 6 to 80 mm
<b>Water vapour diffusion resistance factor</b>		$\mu$ 1-2	
<b>Specific heat capacity</b>		J/(kgK)	2100
<b>Waste key numbers according to AVV</b>		030105/170201, Wood and wood-based materials, waste wood category A II	

  
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## Delivery form

**FORMAT 1220 x 575 mm · TIMBER FRAME CONSTRUCTION · WIDTH 575 mm**

Thickness (mm)	m <sup>2</sup> / pallet	pcs / pallet	packages / pallet	m <sup>2</sup> / 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
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

**FORMAT 1250 x 625 mm · DRY CONSTRUCTION WITH METAL PROFILES · WIDTH 625 mm**

Thickness (mm)	m <sup>2</sup> / pallet	pcs / pallet	packages / pallet	m <sup>2</sup> / package
40	93,75	120	10	9,38
60	62,50	80	8	7,81
80	46,88	60	10	4,69

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

Panel format (mm)	Pallet dimensions (mm; approx.)	Pallets per lorry
1220 x 575	1220 x 1150 x 2550 (L x W x H)	22
1250 x 625	1250 x 1250 x 2550 (L x W x H)	20

\*on request



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



# naturheld 100

**NEW**

Compression-resistant wood fibre insulation board

## Advantages and characteristics

- Stable insulation board for numerous applications
- For the top storey ceiling
- For roof insulation on formwork or CLT



## Technical Data

<b>Labelling</b>	WF-EN 13171-T4-CS(10/Y)50-TR10-AFr5-WS2,0-MU3		
<b>Density</b>	kg/m <sup>3</sup>		110
<b>Nominal thermal conductivity <math>\lambda_b</math> EU</b>		W/(mK)	0,038
<b>Rated thermal conductivity</b>	$\lambda_b$ DE	W/(mK)	0,040
	$\lambda_b$ CH	W/(mK)	0,038
	$\lambda_b$ AT	W/(mK)	0,042
<b>Fire behaviour according to DIN EN 13501-1</b>	E		
<b>Building material class according to DIN 4102-1</b>	B2		
<b>Full declaration</b>	Wood fibres, PMDI adhesive, paraffin		
<b>Compressive stress at 10% compression</b>	kPa		≥ 50
<b>Tensile strength perpendicular to the plane of the panel</b>	kPa		≥ 10
<b>Linear flow resistance</b>	kPa*s/m <sup>2</sup>		> 5
<b>Water vapour diffusion resistance factor</b>	μ 3		
<b>Specific heat capacity</b>	J/(kgK)		2100
<b>Waste key numbers according to AVV</b>	030105/170201, Wood and wood-based materials, waste wood category A II		



**MADE IN GERMANY**



## Delivery form

**FORMAT 1250 x 600 mm · FOR WALLS AND ROOFS · SQUARE-EDGED**

Thickness (mm)	m <sup>2</sup> /pallet	pcs/pallet
40*	42,00	56
60*	28,50	38
80*	21,00	28
100*	16,50	22
120*	13,50	18
140*	12,00	16
160*	10,50	14

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

Panel format (mm)	Pallet dimensions (mm; approx.)	Pallets per lorry
1250 x 600	1250 x 1200 x 1300 (L x W x H)	40

\*on request