

*Specialist trade*

## Premium Wood

Quality and product safety for wood construction



**rettenmeier**<sup>®</sup>  
PREMIUM WOOD

**PREMIUM OF WOOD**

[www.retttenmeier.com](http://www.retttenmeier.com)



rettenmeier®

ZUNFTHOLZ

## Exceptional quality timbers.

We offer our customers in the specialist, timber, building-material and roofing specialist trades high-quality products, comprehensive expertise and an extensive product range. Our strong customer focus makes us the perfect partner for all aspects of timber construction. All kinds of expertise and customised delivery continue to set us apart from the competition.

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## The raw material wood

Wood is one of the oldest building and working materials, and accompanies each of us through our entire lives, from the cradle to the grave. A long tradition in craftsmanship and in industry has provided experience of how to use the right wood in an appropriate manner for various applications. It is possible to process, screw, drill, saw, groove, mill and carve wood with simple tools. Wood is a consumer product and a commodity, as well as being a healthy raw material. Wood is the everyday embodiment of Nature in its purest form, an environmentally friendly product with an extremely positive ecological profile.

Wood is a material with extremely varied properties: Wood is a material with extremely varied properties: the different types of wood, the location, the age of the tree, heartwood or sapwood, trunk or knotted wood all offer a wide range of biological, chemical, technological and visual characteristics. This is a disadvantage for rationalised, industrial-scale processing. On the other hand,

though, the variety in the properties and the appearance bring great advantages: it is possible to selectively satisfy the desires and requirements of the consumers. Strength and load-bearing capacity in construction timber, durability in windows and external doors, colour and wood texture for furniture and in interior fittings, hardness for parquet flooring or rational production technology and excellent product properties in pulp and paper – the right wood is available for every application concept. For the ideal construction and design of products made of wood, the material properties are crucial, such as the density, strength, the elasticity module, resilience, natural durability, permeability, extractive levels, anatomical structure, cell dimensions, the knottiness and the grain orientation. An analysis of the requirements for the product and, derived from that, for the wood material makes it possible to select the ideal type of wood.

## The best products for high demands

Your advantages:

- Premium quality
- High-quality products
- Comprehensive information
- Industry knowledge
- Committed to partnership

Rettenmeier is your professional partner for quality products in the fields of specialist trade, wood construction and roofing.

The benefits for our market partners range from comprehensive advice and information on all legal and product-related issues about creating ideal solutions through to the professional follow-up by our after-sales service.

# Conditions for use of wood and wood products

The life of outdoor timber can be significantly extended by applying the principles of structural wood protection. Otherwise, a component's useful life may be greatly affected by local conditions (high level of ambient moisture, permanent or occasional contact with water, lack of rear ventilation, etc.). On the other hand, favourable installation

conditions can also considerably increase service life by, for example, preventing contact with soil or providing cover.

**The overview below shows the use classes for wood and wood-based products according to DIN EN 335-1.**

Use classes*) according to DIN EN 335-1			
Class	Conditions for use		Durability class required
1	No direct contact with the ground, timber component covered, fully protected from the weather	No moisture (furniture, internal components)	5 to 1
2	No direct contact with the ground, timber component covered, protected from the weather	Exposed to high level of ambient moisture; occasional, non-permanent moisture (internal components in wet area, external components without direct exposure to weather)	3 to 1
3	Timber component exposed to weather, no contact with the ground	Frequent moisture (external components exposed to weather, no contact with the ground, internal components in wet area)	2 to 1; 3 poss. pressure-treated
4	Constant contact with freshwater or ground	Constant moisture (timber components partially or fully in the ground or water)	1; 2; 3 pressure-treated
5	Constant contact with seawater	Constant moisture	1; 2

\*) DIN 68800 is currently being revised; in its revised version, the previous hazard classes are replaced by use classes. No significant changes have been made to content.

## Structural wood protection increases the service life

Besides the individual species of wood selected and its natural durability, the **service life of timber** can be significantly influenced by structural timber protection.

If wood is exposed to high levels of moisture for lengthy periods, it will be damaged by fungal decay. This can be prevented by the proper planning of structural measures to protect the wood at the execution stage.

Outdoors, direct contact with the ground should always be avoided in the case of upright, load-bearing timber components. To protect them from splashing, it is advisable to maintain a minimum gap of approx. 15 cm (mounting on supports).

Horizontal wooden structures should likewise avoid any direct contact with the ground and be kept at a sufficient distance from the subsoil. To prevent water from collecting, horizontal areas should always have a slight gradient.

**Measures to extend the durability and service life of wooden structures:**

- Design timber components so that water can always run off
- Prevent waterlogging
- Ensure adequate ventilation
- Avoid contact with the ground
- Use stainless steel screws that will not rust
- Clean and maintain timber components at regular intervals
- Manual protection is possible, e.g. by dipping, painting or spraying




**Product description:**


- CE construction timber for the area that is not visible n-vis, spruce C24
- finger-jointed according to DIN EN 15497
- cut, heartwood-separated
- dried to 15% +/- 3% wood moisture content
- planed
- chamfered edges

**Examples of applications:**

- timber frame construction
- low-energy and passive houses
- environmentally friendly and ecological timber construction methods
- roof constructions
- ceiling constructions, etc.





**Product benefits:**

- absolutely accurate dimensions
- form and dimensional stability
- calculable
- quality-tested
- decorative

 Spruce/fir

Species of wood	Quality	Dimension (mm)	Standard length (m)	System length (m)	Packaging		
					Width	Layers	Pcs/pallet

**Construction timber KVH®-1plus® n-vis, planed and chamfered on four sides, spruce/fir**


	N-vis	50x100	13.0	On request	11	10	110
		50x120	13.0	On request	9	10	90
		50x140	13.0	On request	8	10	80
		50x160	13.0	On request	7	10	70
		50x180	13.0	On request	6	10	60
		50x200	13.0	On request	5	10	50
		50x220	13.0	On request	5	10	50
		50x240	13.0	On request	4	10	40
	N-vis	60x100	5.0/13.0	9.0	11	8	88
		60x120	5.0/13.0	9.0	9	8	72
		60x140	5.0/13.0	9.0	8	8	64
		60x160	5.0/13.0	9.0	7	8	56
		60x180	5.0/13.0	9.0	6	8	48
		60x200	5.0/13.0	9.0	5	8	40
		60x220	5.0/13.0	9.0	5	8	40
		60x240	5.0/13.0	9.0	4	8	32
		60x260	5.0/13.0	9.0	4	8	32
		60x280	5.0/13.0	9.0	4	8	32
	N-vis	80x100	5.0/13.0	9.0	11	6	66
		80x120	5.0/13.0	9.0	9	6	54
		80x140	5.0/13.0	9.0	8	6	48
		80x160	5.0/13.0	9.0	7	6	42
		80x180	5.0/13.0	9.0	6	6	36
		80x200	5.0/13.0	9.0	5	6	30
		80x220	5.0/13.0	9.0	5	6	30
		80x240	5.0/13.0	9.0	4	6	24
		80x260	5.0/13.0	9.0	4	6	24
		80x280	5.0/13.0	9.0	4	6	24
	N-vis	100x100	5.0/13.0	9.0	11	4	44
		100x120	5.0/13.0	9.0	9	4	36
		100x140	5.0/13.0	9.0	8	4	32
		100x160	5.0/13.0	9.0	7	4	28
		100x180	5.0/13.0	9.0	6	4	24
		100x200	5.0/13.0	9.0	5	4	20
		100x220	5.0/13.0	9.0	5	4	20
		100x240	5.0/13.0	9.0	4	4	16
		100x260	5.0/13.0	9.0	4	4	16
		100x280	5.0/13.0	9.0	4	4	16


**Product description:**


- CE high-quality glue-laminated timber for the area that is not visible (n-vis), spruce C24
- slats finger-jointed in accordance with DIN EN 15497 and 2 pieces comprehensively glued in accordance with DIN EN 14080
- cut, heartwood-separated
- dried to max. 15% wood moisture content
- planed
- chamfered edges

**Product benefits:**

- absolutely accurate dimensions
- form and dimensional stability
- calculable
- quality-tested





**Examples of applications:**

- timber frame construction
- low-energy and passive houses
- environmentally friendly and ecological timber construction methods
- roof constructions
- ceiling constructions
- multi-storey wood construction
- carports, etc.

 Spruce/fir

Species of wood	Quality	Dimension (mm)	Standard length (m)	System length (m)	Packaging		
					Width	Layers	Pcs/pallet

**QLH®-Duo-plus® n-vis, planed and chamfered on four sides**


	N-vis	100x100	13.0	On request			
		100x120	13.0	On request			
		100x140	13.0		8	4	32
		100x160	13.0		7	4	28
		100x180	13.0		6	4	24
		100x200	13.0		5	4	20
		100x220	13.0		5	4	20
		100x240	13.0		4	4	16
		100x260	13.0	On request			
	N-vis	120x120	5.0/13.0	7/8/9/10/11	9	4	36
		120x140	5.0/13.0	7/8/9/10/11	8	4	32
		120x160	13.0	7/7.5	7	4	28
		120x180	13.0	8/8.5	6	4	24
		120x200	13.0	9/9.5	5	4	20
		120x220	13.0	10/10.5	5	4	20
		120x240	13.0	11/12	4	4	16
		120x260	13.0		4	4	16
		120x280	5.0/13.0	7/8/9/10/11	4	4	16
	N-vis	140x140	5.0/13.0	8/9/10/11	8	3	24
		140x160	13.0	8/9/10/11	7	3	15
		140x180	13.0	8/9/10/11	6	3	12
		140x200	13.0	8/9/10/11	5	3	15
		140x220	13.0	8/9/10/11	5	3	15
		140x240	13.0	8/9/10/11	4	3	12
		140x260	13.0	8/9/10/11	4	3	12
	N-vis	160x160	5/13.0	8/10	6	2	12
		160x180	13.0	8/10	6	2	12
		160x200	13.0	8/10	5	2	10
		160x240	13.0	8/10	4	2	8
		160x260	13.0	8/10	4	2	8
		160x280	13.0	8/10	4	2	8










**Product description:**


- construction timber for the area that is not visible
- spruce
- cut, heartwood-separated
- dried to 15% +/- 3% wood moisture content
- planed
- chamfered edges

**Examples of applications:**

- interior fittings
- drywall construction
- installation level

**Product benefits:**






- dry
- absolutely accurate dimensions
- form and dimensional stability
- calculable
- quality-tested

 Spruce/fir


Species of wood	Quality	Dimension (mm)	Standard length (m)	System length (m)	Packaging		
					Width	Layers	Pcs/pallet

### Construction timber n-vis, planed and chamfered on four sides



	N-vis	40x60*	5.0		18	12	216
		40x80*	5.0		14	12	168
		40x100*	5.0		11	12	132
		40x120	5.0		9	12	108
		40x140	5.0		8	12	96
		40x160	5.0		7	12	84
		40x200	5.0		5	12	60
	N-vis	60x60*	5.0		18	8	144
		60x80*	5.0/13.0		14	8	112
	N-vis	80x80*	5.0/13.0		14	6	84
	N-vis	38x63	2.4/3.0/3.6/4.2/4.8/5.0		17	18	306
		38x89	2.4/3.0/3.6/4.2/4.8/5.0		12	18	216
		38x140	2.4/3.0/3.6/4.2/4.8/5.0		8	18	144
	N-vis	25x45*	5.0		24	22	528
		45x95	5.0		11	11	121
		45x120	5.0/13.0		9	11	99
		45x145	5.0/13.0		7	11	77
		45x160*	5.0/13.0		7	11	77
		45x180*	5.0/13.0		6	11	66
		45x200*	5.0/13.0		5	11	55
		45x220*	5.0/13.0		5	11	55
		45x240*	5.0/13.0		4	11	44

### Finger-jointed slat, planed on three sides, sharp edges

	N-vis	30/60	5.0		18	13	234
		40/60	5.0		18	10	180
		50/60	5.0		18	8	144
		60/60	5.0		18	7	126
		60/80	5.0		14	7	98
		60/100	5.0	On request	11	8	88
		60/120	5.0	On request	9	8	72

\* Separation products




**Product description:**


- CE high-quality glue-laminated timber for the visible area (vis), spruce C24
- slats finger-jointed in accordance with DIN EN 15497 and 2 pieces comprehensively glued in accordance with DIN EN 14080
- cut, at least heartwood-separated
- dried to max. 15% wood moisture content
- planed
- chamfered edges
- individually shrink-wrapped

**Product benefits:**

- absolutely accurate dimensions
- form and dimensional stability
- calculable
- quality-tested





**Examples of applications:**

- timber frame construction
- low-energy and passive houses
- environmentally friendly and ecological timber construction methods
- visible roof and ceiling constructions
- multi-storey wood construction
- carports, etc.

 Spruce/fir

Species of wood	Quality	Dimension (mm)	Standard length (m)	System length (m)	Packaging		
					Width	Layers	Pcs/pallet

**QLH®-Duo-plus® vis, planed and chamfered on four sides**


	Vis	100x100	13.0	On request	11	3	33
		100x120	13.0	On request	9	3	27
		100x140	13.0	On request	8	3	24
		100x160	13.0	On request	6	3	18
		100x180	13.0	On request	6	3	18
		100x200	13.0	On request	5	3	15
		100x220	13.0	On request	5	3	15
		100x240	13.0	On request	4	3	12
		100x260*	13.0	On request	4	3	12
	Vis	120x120	13.0	On request	8	2	16
		120x140	13.0	On request	7	2	14
		120x160	13.0	On request	7	2	14
		120x180	13.0	On request	6	2	12
		120x200	13.0	On request	5	2	10
		120x220	13.0	On request	5	2	10
		120x240	13.0	On request	4	2	8
		120x260*	13.0	On request	4	2	8
	Vis	140x140	13.0	On request	7	2	14
		140x160	13.0	On request	7	2	14
		140x180	13.0	On request	6	2	12
		140x200	13.0	On request	5	2	10
		140x220	13.0	On request	5	2	10
		140x240	13.0	On request	4	2	8
		140x260*	13.0	On request	4	2	8
	Vis	160x160	13.0	On request	6	2	12
		160x180	13.0	On request	6	2	12
		160x200	13.0	On request	5	2	10
		160x220	13.0	On request	5	2	10
		160x240	13.0	On request	4	2	8

\* On request




**Product description:**

- CE construction timber for the visible area SELECT, Douglas fir C24
- finger-jointed in accordance with DIN EN 15497
- cut, heartwood-separated
- dried to 15% +/- 3% wood moisture content
- planed
- chamfered edges

**Product benefits:**


- high durability
- high strength
- decorative
- absolutely accurate dimensions
- form and dimensional stability
- calculable
- high natural resistance to fungi or insect infestation
- quality-tested

**SELECT sorting:**

- loose and fallen branches not permitted
- colour differences due to heartwood and sapwood




**Examples of applications:**

- decorative wood construction
- external constructions
- visible roof and ceiling constructions
- carports, etc.




 Douglas fir

Species of wood	Quality	Dimension (mm)	Standard length (m)	System length (m)	Packaging		
					Width	Layers	Pcs/pallet

**Construction timber, Douglas fir KVH®-1plus® SELECT**


	Select	60x100	5.0/13.0		11	4	44
		60x120	5.0/13.0		9	4	36
		60x140	5.0/13.0		8	4	32
		60x160	5.0/13.0		7	4	28
		60x180	5.0/13.0		6	4	24
		60x200	5.0/13.0		5	4	20
		60x240	5.0/13.0		4	4	16
	Select	80x120	5.0/13.0		9	3	27
		80x140	5.0/13.0		8	3	24
		80x160	5.0/13.0		7	3	21
		80x180	5.0/13.0		6	3	18
		80x200	5.0/13.0		5	3	15
		80x240	5.0/13.0		4	3	12
	Select	100x100	5.0/13.0		11	2	22
		100x160	5.0/13.0		7	2	14
		100x200	5.0/13.0		5	2	10
		100x240	5.0/13.0		4	2	8

**Construction timber, Douglas fir KVH®-1plus® n-vis**

	N-vis	60x120*	13.0		9	8	72
		60x160*	13.0		7	8	56
		60x180*	13.0		6	8	48
		60x200*	13.0		5	8	40
	N-vis	80x120*	13.0		9	6	54
		80x160*	13.0		7	6	42
		80x180*	13.0		6	6	36
		80x200*	13.0		5	6	30
	N-vis	100x100*	13.0		11	2	22

\* Full PU only





**Product description:**

- profile variations for vertical and horizontal installation
- high-quality SELECT sorting
- finely planed
- technically dried

**Processing:**


- simple processing
- note the structural timber protection
- use fixing hardware made of stainless steel

**Examples of applications:**

- design of facades, walls and gables
- soffit linings
- private, commercial, sports and leisure facilities
- screen elements
- carports, summer houses and fence construction



**Product benefits:**

- decorative design options for areas
- classic/modern profiles
- durable and long-lasting
- stable and resistant
- weatherproof



 Douglas fir

Species of wood	Quality	Dimension (mm)	Length (m)	PU Pcs/pallet	Pcs/bundle
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**Base-top covering/base-slat covering, planed on three sides**

	■	Select	21x95	4.0/5.0	275	
			21x145	4.0/5.0	168	
						

**Combined profile (Softline/chamfer), planed on three sides**

	■	Select	21x146	4.0/5.0	168	4
						




**Product description:**


- planed products
- spruce
- finely rotaplan planed
- dried to min. 18%+/- 2% wood moisture content







**Examples of applications:**

- lofts
- outer buildings
- blind floors
- summer houses
- substructure in wall and ceiling claddings

**Product benefits:**

- improves the interior climate
- promotes a sense of comfort
- warm to the feet
- hygienic
- breathable
- healthy
- low maintenance

 Spruce/fir

	Species of wood	Quality	Dimension (mm)	Length (cm)	Packaging		
					Width	Height	Pcs/pallet
<b>HW T&amp;G timber, spruce, tongue and groove</b>							
		II-IV	21x116	300-500	9	21	189
			24x136	300-500	8	20	160
			24x146	300-500	7	20	140
			24x165	300-500	7	20	140
			28x136	300-500	8	18	144
			28x165	300-500	7	18	126
<b>HW T&amp;G timber, spruce, taper groove</b>							
		II-IV	21*	300-500			
			24*	300-500			
			28*	300-500			
<b>HW T&amp;G timber, spruce, tongue and groove, dry produced from raw material C24M TS DIN EN 14081</b>							
		made of C24M	24x136	300-500	8	20	160

\* Width depending on availability


**Product description:**


- sawn timber, spruce
- finely sawed
- raw
- lengths 50 : 50 cm, ascending

**Product benefits:**

- cost-effective
- standard quality
- wide range of applications


**Examples of applications:**

- slats for roofing
- substructure timber for exterior façades
- wall and ceiling coverings
- flooring sleepers
- counter battens


 Spruce/fir

Species of wood	Quality	Dimension (mm)	Length (cm)	Packaging		
				Pcs/bundle	Bundles/pallet	Pcs/pallet


**Sawn timber slats and frames, unplaned, fresh, raw or pressure-treated, spruce**

	I-II	18x48	400-500	12	50	600
		24x48	400-500	10	36	360
		28x48	400-500	10	32	320
		30x50	400-500	10	28	280
		38x58	400-500	6	36	216
		40x60	400-500	6	36	216
		40x80	400-500	6	28	168
		58x58	400-500	4	36	144
		58x78	400-500	4	28	112

**Sawn timber slats and frame, unplaned, technically dried, spruce**

	I-II	18x48	400-500	12	50	600
		24x48	400-500	10	36	360
		28x48	400-500	10	32	320
		30x50	400-500	10	28	280
		38x58	400-500	6	36	216
		38x78	400-500	-	-	168
		40x60	400-500	6	36	216
		58x58	400-500	-	-	126
		58x78	400-500	-	-	98

**Roof batten CE/S10, DIN 4074-1, spruce, freshly sorted, unplaned, raw or pressure-treated**

	S 10	31x52	400-500	10	28	280
		41x62	400-500	6	36	216

**Roof batten CE/S10, DIN 4074-1, spruce, dry sorted, unplaned, raw**

	S 10	30x50	400-500	10	28	280
		40x60	400-500	6	36	216



green dip pressure treatment, free of heavy metals



yellow dip pressure treatment, free of heavy metals


**Product description:**


- sawn timber, spruce
- finely sawed
- raw
- lengths 50 : 50 cm, ascending


**Product benefits:**

- cost-effective
- wide range of applications

**Examples of applications:**

- structural works
- boarding purposes
- blind linings
- concrete formwork
- sheet piling
- stair formwork
- roof linings
- wood panelling


 Douglas fir

 Spruce/fir


Species of wood	Quality	Dimension (mm)	Length (cm)	Packaging		
				Width	Layers	Pcs/pallet

### Sawn timber board products, unplanned, fresh, raw or pressure treated, spruce




	II-IV	24x80	300-500	14	30	420
		24x100	300-500	11	30	330
		24x120	300-500	9	30	270
		24x140	300-500	8	30	240
		24x160	300-500	7	30	210
		24x180	300-500	6	30	180
		24x200	300-500	5	30	150

### Sawn timber board products, unplanned, technically dried, spruce

	II-IV	23x80	300-500	14	42	588
		23x100	300-500	11	42	462
		23x120	300-500	9	42	378
		23x140	300-500	8	42	336
		23x160	300-500	7	42	294
		23x180	300-500	6	42	252
		23x200	300-500	5	42	210

### Sawn timber board products, unplanned, technically dried, Douglas fir

	II-IV	23x140	300-500	8	42	336
		23x160	300-500	7	42	294
		23x180	300-500	6	42	252
		23x200	300-500	5	42	210



green dip pressure treatment, free of heavy metals



yellow dip pressure treatment, free of heavy metals





**Table 3: Requirements for KVH<sup>®</sup>-1plus<sup>®</sup>**

Sorting feature	Requirements for KVH <sup>®</sup> -1plus <sup>®</sup>		Comments
	SELECT visible area	N-vis not visible area	
Sorting class according to DIN 4074-1	At least S 10 TS or S 10K TS; C 24 in accordance with DIN EN 338	At least S 10 TS or S 10K TS; C 24 in accordance with DIN EN 338	The code K stands for a board or plank sorted as squared timber
Wood moisture content	15% ±3%	15% ±3%	The specified wood moisture content is a prerequisite for a far-reaching waiving of preventive wood protection
Cut type	Heartwood-separated	Heartwood-separated	Since the pith does not necessarily run through the centre of a tree, "heartwood-separated" is defined as follows: for a tree with an ideal growth form, the pith would be cut through in two-strand cutting
Tree edge	Not permitted	≤ 10% of the smaller cross-section side	Tree edge measured diagonally
Dimensional accuracy of the cross-section	DIN EN 336 dimensional accuracy class 2 b ≤ 100 mm ± 1 mm b ≥ 100 mm ± 1.5 mm		The dimensional accuracy for the length dimension must be agreed between the Purchaser and the supplier
Branch condition	DIN 4074-1 Sorting class S 10	DIN 4074-1 Sorting class S 10	
Knottiness	S 10: A ≤ 2/5 Not more than 70 mm	In the event of automatic sorting, the branch sizes are not taken into account; otherwise, the following applies: S 10: A ≤ 2/5	Knottiness A is determined in accordance with DIN 4074-1
Bark inclusion	Not permitted	DIN 4074-1	
Cracks, radial shrinkage cracks (dry cracks)	Crack width of b ≤ 3% of the respective cross-section width	DIN 4074-1	With SELECT, increased requirements compared with sorting class S 10 in accordance with DIN 4074-1
Pitch pockets	Width b ≤ 5 mm	-	Additional criterion
Discolourations	Not permitted	DIN 4074-1	With SELECT, increased requirements compared with sorting class S 10 in accordance with DIN 4074-1
Insect infestation	Not permitted	DIN 4074-1	With SELECT, increased requirements compared with sorting class S 10 in accordance with DIN 4074-1
Distortion	-	-	The permitted level of distortion is not defined further, as – given compliance with all other criteria – no intolerable distortion is to be expected
Longitudinal curvature	With heart-separated cut ≤ 8 mm/2m	With heart-separated cut ≤ 8 mm/2m	
Processing of the ends	Capped at right angles	Capped at right angles	
Surface quality	Planed and chamfered	Equalised and chamfered	
Finger joint	DIN EN 15497		

**Table 4: Requirements for QLH®-Duo/Trio-plus®**

Sorting feature	Requirements for QLH®-Duo/Trio-plus®		Comments
	Vis visible area	N-vis not visible area	
Technical regulation	DIN EN 14080		
Sorting class in accordance with DIN 4074-1	At least S 10K TS, C 24 in accordance with DIN EN 338		
Wood moisture content	max. 15%		Prerequisite for the bonding
Dimensional accuracy of the cross-section	DIN EN 336 dimensional accuracy class 2 $b \leq 100 \text{ mm} \pm 1 \text{ mm}$ , $b \geq 100 \text{ mm} \pm 1.5 \text{ mm}$		The dimension tolerances for lengths must be agreed between the purchaser and the supplier
Distortion	$\leq 4 \text{ mm}/2 \text{ m}$		For comparison: DIN 4074-1: S 10 $\leq 8 \text{ mm}/2 \text{ m}$
Longitudinal curvature	$\leq 4 \text{ mm}/2 \text{ m}$		For comparison: DIN 4074-1: S 10 $\leq 8 \text{ mm}/2 \text{ m}$
Surface quality	Planed and chamfered	Equalised and chamfered	The right sides (sides close to the core) must be facing outwards
Processing of the ends	Capped at right angles		
Bonding the timber	DIN EN 14080		Adhesive type I in accordance with DIN EN 301, characteristics of use in accordance with DIN 68141
Finger joint	DIN EN 15497		

## Structural-physical parameters and labelling

**Table 5: Structural-physical characteristics for KVH®-1plus® and QLH®-Duo/Trio-plus®**

Swelling and shrinkage dimensions	
Dimensional changes / differential swelling and shrinkage Given a change in the wood moisture content, per 1%	0.24%
Swelling and shrinkage anisotropy Ratio, tangential to radial	2
Characteristic variables and key indicators	
Bulk density $\rho$ (at approx. 15% wood moisture content) on average	450-480 kg/m <sup>3</sup>
Water vapour diffusion resistance coefficient $\mu$ (DIN 4108)	40
Thermal conductivity $\lambda_R$ (DIN 4108)	0.13 W/(m* K)
Dimensional and form stability	Good
Building material class (DIN EN 13501-1)	D-s2, d0
Building material class (DIN 4102)	B2 (normally flammable)
Burning rate on average	0.65-0.70 mm/min.

**Table 6: Labelling of KVH® 1-plus® and QLH®-Duo/Trio-plus®**

Product	Product rule	Labelling	
Not finger-jointed KVH®-1plus®	DIN EN 14081-1 with DIN 20000-5	CE mark	CE
Not finger-jointed KVH®-1plus®	DIN EN 15497 with DIN 20000-7	CE mark	CE
QLH®-Duo/Trio-plus®	DIN EN 14080 with DIN 20000-3	CE mark	CE

## General Terms and Conditions (purchasing conditions) of

- Rettenmeier Holzindustrie Wilburgstetten GmbH, Industriestr. 1, D-91634 Wilburgstetten  
- Rettenmeier Holzindustrie Hirschberg GmbH, Ullersreuth 61, 07927 Hirschberg, Germany  
- Rettenmeier Holzindustrie Ramstein GmbH, Industriestr. 1, D-66877 Ramstein-Miesenbach  
- Rettenmeier Holding AG, Industriestr. 1, D-91634 Wilburgstetten  
regarding the purchase of goods

## Article 1 General information, scope

(1) The present General Purchasing Conditions (AEB) shall apply to all business relations with our business partners and suppliers (hereinafter: "Seller").  
(2) The AEB shall apply in particular to contracts for the sale and/or supply of movable property, regardless of whether the Seller manufactures the product themselves or purchases it from suppliers (Articles 433, 451 of the German Civil Code (Bürgerliches Gesetzbuch, BGB)), and any services (hereinafter also referred to as "product"). The AEB shall apply in their respective version as a framework agreement to future contracts for the sale and/or delivery of goods with the same Seller, without the need for us to refer to them again in each individual case; we shall inform the Seller immediately about any changes to our AEB in accordance with Article 12.  
(3) These AEB apply exclusively. Any deviating, conflicting or supplementary general terms and conditions of business of the Seller shall become a component of this contract only if and insofar as we have explicitly agreed to their validity in writing. This consent requirement shall apply in each case, for example, even when we are aware of the general terms and conditions of the Seller and unreservedly accept delivery from the Seller.  
(4) Individual agreements concluded in individual cases with the Seller (including ancillary agreements, supplements and amendments) shall in all cases take precedence over these AEB. A written contract or our written confirmation is crucial with regard to the contents of such agreements.  
(5) Any legally relevant declarations and notifications which the Seller must submit to us after conclusion of the contract (e.g. deadlines, reminders, statement of resignation) must be made in writing to become effective.  
(6) Any information on the application of statutory provisions serves only the purpose of clarification. The statutory provisions therefore apply even without such clarification, insofar as they are not directly amended or expressly excluded in these AEB.

## Article 2 Conclusion of the contract

(1) Our order is deemed to be binding at the earliest upon written submission or confirmation. The Seller must draw our attention to any obvious errors (e.g. typing or calculation errors) and any incompleteness in the order, including the order documents, for the purpose of correction or completion prior to acceptance; otherwise the contract shall be deemed to be not concluded. The customer shall be entitled to rights of compensation and retention to the statutory and/or contractually agreed extent.  
(2) The Seller is obliged to issue an order confirmation immediately upon receipt of the order.  
(3) Any late acceptance is deemed to be a new offer and requires our acceptance.

## Article 3 Delivery time and delay in delivery

(1) The delivery time stated in the order is binding. If the delivery time is not specified in the order and has also not been otherwise agreed, it shall be 48 hours from when the contract is concluded. The Seller is obliged to inform us immediately in writing if the Seller will presumably be unable to comply with any agreed delivery times – for whatever reason.  
(2) If the Seller does not perform its service at all or not by the agreed delivery time or if the Seller falls into arrears, our rights – in particular with regard to withdrawal and compensation for damages – shall be determined in accordance with the statutory provisions. The provisions in Article 3 shall remain unaffected.  
(3) Should the Seller fall into arrears, we may demand – in addition to any further statutory claims – a lump-sum compensation for our losses due to arrears in the amount of 1% of the net price per completed calendar week, but not more than 5% of the net price of the products delivered late. We reserve the right to prove that we have incurred a greater loss. The Seller reserves the right to prove that we have not incurred any loss or only a much lower level of loss.

## Article 4 Performance, delivery, transfer of risk, default of acceptance

(1) Without our prior written consent, the Seller is not entitled to have the due service performed by third parties (e.g. sub-contractors). The Seller bears the procurement risk for its own performance, unless otherwise agreed in individual cases (e.g. sale of stocked goods). The Seller is entitled to make partial deliveries and/or to perform partial services only with our express written consent.  
(2) Delivery shall be made carriage paid within Germany to the place specified in the order. If the destination is not specified and not otherwise agreed, the delivery must be made to our office in Wilburgstetten. The destination is also the place of performance (debt payable at the address of the creditor).  
(3) The delivery must be accompanied by a delivery note specifying the date (issue and dispatch), contents of the delivery (item number and quantity) as well as our order identifier (date and number). If the delivery note is missing or incomplete, we shall not accept liability for any resulting delays in the processing and payment.  
In addition to the delivery note, a corresponding dispatch report with the same content must be sent to us.  
(4) The risk of accidental loss and accidental deterioration of the goods is transferred to us upon handover at the place of performance. Insofar as an acceptance has been agreed, it is crucial for the transfer of risk. In addition, the statutory provisions of the German contract law for work and services (Werkvertragsrecht) shall apply accordingly to any acceptance. It is irrelevant to the handover and/or acceptance if we are in default of acceptance.  
(5) Our default of acceptance shall be subject to the statutory provisions. The Seller must explicitly offer us his service even if an action or participation on our part (e.g. provision of material) is subject to an agreed, identified or identifiable calendar period. Should we fall into default of acceptance, the Seller is entitled under the statutory provisions to demand compensation for any additional expenses (Article 304 BGB). Should the contract relate to an unjustifiable matter to be produced by the Seller (individual production), the Seller shall be entitled to further rights only insofar as we have undertaken to participate and we are responsible for any failure to participate.

## Article 5 Prices and payment terms

(1) The price stated in the order is binding. All prices are inclusive of statutory VAT, unless this is identified separately.  
(2) Unless otherwise agreed in individual cases, the price includes all services and ancillary services of the Seller (e.g. assembly, installation) as well as all associated costs (e.g. proper packaging, transport costs, including any possible transportation and liability insurance).  
(3) The agreed price is due for payment within 90 calendar days from the date of complete delivery and performance (including, if necessary, an agreed acceptance) as well as access to a proper invoice. Should we make a payment within 45 calendar days, the Seller will grant us a 3% discount on the net amount of the invoice. In the case of a bank transfer, the payment is deemed to have been made on time if our transfer order is received by our bank prior to expiry of the payment deadline; we accept no liability for any delays caused by banks involved in the payment transaction.  
(4) We owe no interest due. The default rate is 5 percentage points above the base rate per annum. The start of any default on our part is subject to the statutory provisions, although a written reminder from the Seller is required in all circumstances, as a possible deviation from the statutory provisions.  
(5) Rights of compensation and retention as well as the plea of an unfulfilled contract are available to us to the statutory extent. In particular, we are entitled to retain any due payments insofar as we hold any claims arising from incomplete or inadequate services against the Seller.  
(6) The Seller has a right of set-off or retention only in relation to legally established or undisputed counterclaims.  
(7) The agreed prices remain as a price cap for the future. Any changes must be agreed separately with us in writing.

## Article 6 Confidentiality and retention of title

(1) We reserve right of ownership and copyright on all illustrations, plans, drawings, calculations, version instructions, product descriptions and other documents. Such documents are to be used exclusively for the contractual service and must be returned to us after completion of the contract. The documents and any orders, deliveries and prices must be kept strictly confidential in relation to third parties, even after expiry of the contract. The duty of confidentiality shall expire only if and insofar as the knowledge contained in the transferred documents has become generally known.  
(2) The foregoing provision shall apply mutatis mutandis for substances and materials (e.g. software, finished and semi-finished products) as well as for tools, templates, samples and other items which we provide to the Seller for production. As long as they are not processed, such items must be stored separately at the expense of the Seller and secured to an appropriate extent against destruction and loss.  
(3) Any processing, mixing or combining (processing) of supplied goods by the Seller will be carried out on our behalf. The same applies for further processing of the delivered goods by us, so that we are deemed to be the manufacturer and acquire ownership of the product at the latest upon such further processing in accordance with the statutory provisions.  
(4) The goods must be transferred to us without fail and without regard to the payment of the price. However, if in individual cases we should accept an offer from the Seller for transfer of ownership that is conditional on payment of the purchase price, the right of retention of the Seller shall expire at the latest upon payment of the purchase price for the delivered goods. We shall remain authorised in the course of ordinary business activities even before payment of the purchase price to resell the goods under the proviso of assigning in advance the resulting claim (alternatively, assertion of a simple right of retention extended to include the further processing). In all cases, all other forms of retention of title are hereby excluded, and in particular any extended right, transferred right and right of retention prolonged to include further processing.

## Article 7 Faulty delivery

(1) Unless determined otherwise below, the statutory provisions shall apply with regard to our rights in the event of material and legal defects concerning the goods (including incorrect and incomplete delivery, improper installation, defective assembly or operating manuals) and in the event of other breaches of duty by the Seller.  
(2) According to the statutory provisions, the Seller shall in particular be liable for ensuring that the product has the agreed characteristics upon the transfer of risk to us. In all cases, the product descriptions that are the subject of the respective contract – particularly when identified or referred to in our order – or that have been integrated in the contract in the same way as these AEB shall be deemed to be an agreement regarding such characteristics. It makes no difference whether the product description was produced by us, the Seller or the manufacturer.  
The Seller assures us that the delivered goods are free of defects in every respect, in particular as regards composition, design and labelling, and are marketable without restriction in Germany and/or in the destination country specified in the order, and that any distribution of such goods would not infringe any applicable legal regulations or the rights of third parties, particularly industrial property rights or distribution arrangements.  
(3) By way of derogation from Article 442(1) Clause 2 BGB, we shall even be entitled to unrestricted warranty claims if the defect remained unknown to us at the time of concluding the contract due to gross negligence.  
(4) The statutory provisions (Articles 377, 381 HGB) apply to the commercial obligation to examine the goods and to notify the Seller of any defects, under the following conditions: our obligation to examine is limited to defects that come to light in an external assessment during our incoming goods inspection, including the delivery documents, and during our quality checks on a random spot-check basis (e.g. transport damage, incorrect and incomplete delivery). Insofar as an acceptance has been agreed, there is no obligation to examine. Moreover, it is significant to consider to what extent an examination is feasible in light of the individual circumstances with regard to standard business activities.  
Our obligation to notify the Seller regarding defects discovered at a later time shall remain unaffected. In all cases, our complaint (notification of defect(s)) shall be deemed to be immediate and in good time if it is received by the Seller within 10 working days. The notification of defect(s) may be given verbally or in writing.  
The Seller may not claim an infringement of the obligation to notify about defects on the part of the Purchaser if the defective nature of the goods is based on circumstances of which the Seller is aware or of which the Seller could only be unaware as a result of gross negligence.  
(5) Any costs incurred by the Seller with regard to examination and reworking (including possible removal and installation costs) shall be borne by the Seller, even if it becomes evident that no defect was actually present. Our liability for compensation for damages shall remain unaffected in the event of an unjustified demand for the rectification of defects; however, we shall be liable only insofar as we recognised, or failed to recognise due to gross negligence, that no defect was present.  
(6) If the Seller fails to comply with its obligation for subsequent performance – at our discretion, by removing the defect (subsequent improvement) or by delivering a defect-free product (replacement) – within a reasonable period of time set by us, we may eliminate the defect ourselves and demand compensation from the Seller for any expenses incurred thereby and/or a corresponding advance payment. Should such subsequent performance by the Seller have failed or be unacceptable for us (e.g. due to particular urgency, endangering of operational security or risk of disproportionate damage), it is not necessary to set a deadline; we shall inform the Seller immediately about such circumstances, and if possible in advance.  
(7) In addition, we are entitled in accordance with the statutory provisions, in the event of a material or legal defect, to reduce the purchase price or to withdraw from the contract. Moreover, we are entitled to claim compensation for damages and expenses in accordance with the statutory provisions.

## Article 8 Suppliers' recourse

(1) In addition to warranty claims, we shall be entitled without restriction to our statutory recourse claims within a supply chain (suppliers' recourse in accordance with Articles 478, 479 BGB). In particular, we shall be entitled to demand precisely the type of subsequent performance (subsequent improvement or replacement) from the Seller which we are due to provide to our customer in the individual case. Our statutory right of choice (Article 439(1) BGB) shall remain unaffected by this.  
(2) Before we recognise or fulfil a claim of defects asserted by our customer (including reimbursement in accordance with Sections 478(3) and 439(2) BGB), we shall inform the Seller and request a written statement following a brief summary of the matter. Should such a statement not be provided within an appropriate period of time and should no mutually agreed solution be reached, the claim of defects that is actually accepted by us shall be deemed to be due to our customer; in such case, the Seller shall bear the responsibility of proof of the contrary.  
(3) Our claims arising from suppliers' recourse shall apply even if the goods were processed further by us or one of our customers, e.g. by installation in another product, prior to their sale to a consumer.

## Article 9 Producer liability

(1) If the Seller is responsible for product damage, for an infringement of industrial property rights or for any other infringement of the rights of third parties, the Seller must exempt us from any claims of third parties insofar as the cause lies within the auspices of the Seller's control and organisation and the Seller himself is liable with regard to external relations. The Seller's obligation to grant exemption relates in particular to all costs and expenses, including the costs of legal proceedings.  
(2) In the context of its obligation to grant exemption, the Seller must reimburse expenses in accordance with Sections 683 and 670 BGB which may arise from or in connection with any involvement of third parties, including recall campaigns carried out by us. We shall inform the Seller – wherever possible and reasonable – about the content and scope of any recall campaigns and give the Seller the opportunity to make a statement. Any further statutory claims shall remain unaffected.  
(3) The Seller must acquire and maintain a product liability insurance policy with a lump-sum total cover of at least EUR 10 million per injury/property damage claim. The Seller must present a confirmation of such insurance upon written request from us.  
(4) The Seller may be charged up to an amount of EUR 100,000 per claim, and is liable for the fault of its vicarious agents in the same way as for its own fault.  
(5) The Seller guarantees to meet the requirements of the REACH (Regulation (EC) No. 1907/2006 dated 30.12.2006) in the respective valid version, in particular regarding the registration of substances. The Purchaser is not obliged to obtain a permit under the REACH regulation for a product supplied by the supplier.

## Article 10 Limitation

(1) The mutual claims of the contractual parties shall be subject to limitation in accordance with the statutory provisions, unless determined otherwise below.  
(2) By way of derogation from Section 439(1) No. 3 BGB, the general limitation period for warranty claims is three years from the transfer of risk. Insofar as an acceptance is agreed upon, the limitation period begins with the acceptance. The three-year limitation period also applies to claims arising from legal defects, although the statutory limitation period for in-rem claims for restitution of third parties (Section 438(1) No. 1 BGB) remains unaffected; moreover, claims arising from legal defects shall not become statute-barred in any case, insofar as the third party can still assert its right against us – particularly due to a lack of limitation.  
(3) The limitation periods under the law on the sale of goods (Kaufrecht) including the above-mentioned extension shall apply – to the statutory extent – to all contractual warranty claims. Insofar as we are also entitled to non-contractual claims for compensation for damages due to a defect, the regular statutory limitation shall apply (Sections 195, 199 BGB), unless the application of the limitation periods under the law on the sale of goods leads to a longer limitation period in an individual case.

## Article 11 Choice of applicable law and court of jurisdiction

(1) These AEB and all legal relationships between ourselves and the Seller are subject to the law of the Federal Republic of Germany under exclusion of international uniform law, and in particular the UN Convention on Contracts for the International Sale of Goods (CISG). Any prerequisites and effects of retention of title are subject to the law of the respective storage location of the goods, insofar as the agreed choice of law in favour of German law is impermissible or ineffective.  
(2) The exclusive – including international – jurisdiction for all disputes arising from this contractual relationship is our registered office in Wilburgstetten, Germany. However, we shall also be entitled to file legal proceedings at the place of performance of the delivery obligation.

## Article 12 Amendments to the AEB

Any amendments to these AEB shall be offered to the supplier no later than 30 days before the proposed date of application in text form or via an electronic communication channel. The consent shall be deemed granted if the supplier has not notified its refusal of the offer prior to the proposed date of application of the amendments. The Purchaser shall be informed separately of such deemed approval.

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