



*Passion for timber*

SOLID  
CONSTRUCTION  
TIMBER

# ASSORTMENT

Dimension [mm]		Packet formation [pc.]			Packet dimensions [cm]		Volume [m <sup>3</sup> ] 13 m	Volume [m <sup>3</sup> ] 5 m
width	height	high	wide	total	high	wide		
40	60	10	18	180	40	108		2,160
60	60	7	18	126	42	108		2,268
60	80	7	14	98	42	112	6,115	2,352
60	100	7	11	77	42	110	6,006	2,310
60	120	7	9	63	42	108	5,897	2,268
60	140	7	8	56	42	112	6,115	2,352
60	160	7	7	49	42	112	6,115	2,352
60	180	7	6	42	42	108	5,897	2,268
60	200	7	5	35	42	100	5,460	2,100
60	220	7	5	35	42	110	6,006	
60	240	7	4	28	42	96	5,242	
80	80	5	14	70	40	112		2,240
80	100	5	11	55	40	110	5,720	2,200
80	120	5	9	45	40	108	5,616	2,160
80	140	5	8	40	40	112	5,824	2,240
80	160	5	7	35	40	112	5,824	2,240
80	180	5	6	30	40	108	5,616	2,160
80	200	5	5	25	40	100	5,2	2,000
80	220	5	5	25	40	110	5,720	
80	240	5	4	20	40	96	4,992	
100	100	4	11	44	40	110	5,720	2,200
100	120	4	9	36	40	108	5,616	
100	140	4	8	32	40	112	5,824	
100	160	4	7	28	40	112	5,824	
100	180	4	6	24	40	108	5,616	
100	200	4	5	20	40	100	5,200	
100	220	4	5	20	40	110	5,720	
100	240	4	5	20	40	120	6,240	
120	120	3	9	27	36	108	5,054	1,944
120	160	3	7	21	36	112	5,242	
120	200	3	5	15	36	100	4,680	
120	220	3	5	15	36	110	5,148	
120	240	3	4	12	36	96	4,493	
140	140	3	8	24	42	112	6,115	2,352

# SOLID CONSTRUCTION TIMBER

## Classification norms for solid construction timber

Classification parameters	Solid construction timber requirements (not visible KVH NSi)	Notes
Resistance class	C24	
Classification norm in case of visible classification	DIN 4074-1	Other classification norms must be agreed upon separately
Product norm	DIN EN 14081-1 for non finger jointed KVH® , DIN EN 15497 for finger jointed KVH®	
Wood moisture	15 % ± 3 % Technically dried: Wood that was dried in a suitable technical system with a controlled process at a temperature $T \geq 55\text{ °C}$ for at least 48 hours to reach a wood moisture of $u \leq 20\text{ %}$ .	The specified moisture content is a precondition for dispensing for the most part with preservative treatment and can also be the precondition for finger joint assembly.
Type of cutting	Cutting is carried out keeping in mind that the pith of a log grown in ideal form is cut in half.	
Sapwood	$\leq 10\text{ %}$ of the smallest part of the cross-section	
Dimensional stability of the cross-section	DIN EN 336, Dimensional stability class 2: $\leq 10\text{ cm: } \pm 1\text{ mm}$ ;	The dimensional stability for the longitudinal dimensions must be agreed between the customer and supplier.
Branch condition	DIN 4074-1, class S10 TS	
Branches	S10: $A \leq 2/5$ , not exceeding 70 mm	In case of machine classification: branch dimensions are not taken into consideration for KVH®-NSi.
Bark inclusion	DIN 4074-1, class S10 TS	Branch bark is calculated with the branch itself
Cracks	Crack width $\leq 5\text{ %}$	Crack width refers to the respective cross-section width No limits for the length or number of cracks. Crack depths must comply with the construction work testing requirements.
Crack depth - shallow cracks - lightning cracks,	Not admissible up to 1/2	Measured according to DIN 4074-1
Resin sacks	Width $\leq 5\text{ mm}$	Compliant with DIN 68365 quality classes 1 and 2. No limits for the length or number of resin sacks.
Colour changes	Blue stain: admissible	Measured according to DIN 4704-1 according to DIN 4074-1, KVH®-NSi's requirements correspond to class S10
	Brown and red nail-resistant streaks: up to 2/5	
	Brown and white rot: inadmissible	
Insect infestation	Insect galleries up to 2 mm are admissible	As per 4074-1
Spiral grain	1 mm every 25 mm height	Measured according to DIN 4074-1
Longitudinal warping	$\leq 8\text{ mm} / 2\text{ m}$	Measured according to DIN 4074-1 Complies with the requirements of class S10 and S13 according to
Finishing of the ends	right angle (upon agreement)	
Surface finishing	Levelled, rounded edges from 6 cm high	

# SOLID CONSTRUCTION TIMBER (KVH®)

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## *Solid construction timber KVH® - precisely defined building material*

Solid construction timber KVH® is a construction material manufactured to meet the needs of contemporary wood construction with precisely defined characteristics. KVH® is a solid timber product that is technically dried, classified according to resistance and with softwood finger joints. Due to the cutting and to the low moisture, it is robust, does not crack easily and, if structural timber protection rules are observed, it can be employed without the need for chemical protection.



KVH® undergoes supplementary checks in addition to construction work testing. Additional quality corporate checks and supplementary external testing comply with the criteria of the agreements concerning solid construction timber KVH®

Further downloadable technical information can be found at the following link:  
[www.kvh.eu/downloads](http://www.kvh.eu/downloads)

## *Technical data*

- ≡ **Type of wood:** Spruce for the non-visible area
- ≡ **Wood section:** according to DIN 4074, C24/S10 classified, split-heart cutting
- ≡ **Production:** compliant with EN 15497
- ≡ **Surface:** planed on 4 sides and chamfered
- ≡ **Quality:** NSi
- ≡ **Glue:** Climaprotect melamine resin
- ≡ **Wood moisture:** 15 % ± 3 %
- ≡ **Certificates:** EC European Community EN 15497:2014, PEFC, external testing provided by MPA Stuttgart (Materials Testing Institute University of Stuttgart)



## *Quality and formats*

- ≡ **Standard length** 5 m and 13 m (with finger joints), maximum length 18 m.
- ≡ **Packet length** available.



### *Capacity & capability*

The Pfeifer Group started producing highest quality glulam products at the Imst location in 1985. With a production capacity of approximately 200.000 m<sup>3</sup>, we are one of Europe's leading manufacturers.

### *Quality*

Our internal quality control system ensures compliance with our high standards of quality. Furthermore, the quality of our production is also continuously monitored by two external organizations: Institute MPA Stuttgart and the Holzforschung Austria Wien.

### *Environment*

We harvest our timber from sustainably managed forests (PEFC / FSC). The use of wood binds the harmful greenhouse-gas CO<sub>2</sub> long term and thus has a strong emission-reducing effect.

### *Logistics*

Our products are available in more than 89 countries around the world, and we therefore have a well-established logistical network.



Förderung nachhaltiger  
Waldwirtschaft  
[www.pefc.de](http://www.pefc.de)



Das Zeichen für verantwortungs-  
volle Waldwirtschaft  
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## *At the heart of Europe* AND THE WORLD



Sawn timber



Single & three-ply panels



Formwork beams &  
shuttering panels



Pellets & Briquettes



Pallet blocks