



binderholz **SOLID WOOD FOR CONSTRUCTION KVH®**

Solid wood for construction KVH® is a building material specially developed for the high demands of modern wood construction with precisely defined product properties. KVH® is a kiln dried, strength-sorted solid wood product made of spruce or pine. KVH® is subject to additional controls that go beyond the general requirements of the building inspectorate. The operational quality control and the external monitoring are carried out in accordance with the criteria of the agreements on KVH®.

Production properties of wood for construction

- Solid wood for construction as standard panels
- Bespoke production and commissioning
- Machining on request
- Capping exact to the millimetre
- Stocklist delivered and individually labelled
- Produced according to international standards



SOLID WOOD FOR CONSTRUCTION FROM BRANDENBURG PINE

The original vegetation area of the Brandenburg pine is of course located in the forests of the Mark Brandenburg. Due to the typically barren sandy and nutrient-poor soil, it grows very slowly and develops a high wood density. These optimal growth conditions ensure maximum stability and resilience. The Brandenburg pine has thus long become synonymous with construction wood in modern wood construction.

Material properties of the Brandenburg pine

- Particularly dimensional
- Extremely resilient
- Extremely durable
- Sustainably economical
- Constant product quality
- With small annual rings and homogeneous
- Easy to process

BRANDENBURG PINE



Standard length 13 m | Strength C24 according to DIN EN 338:2010-02 (MPA Stuttgart)

Non-visible quality, kiln dried to 15% +/- 3% wood moisture, planed on 4-sides and chamfered, finger-joint glued polyurethane (PUR)		
Thickness mm	Width mm	PU Baruth pieces
60	80	84
60	100	66
60	120	54
60	140	48
60	160	42
60	180	36
60	200	30
60	220	30
60	240	24
60	260	24
60	280	24
80	80	70
80	100	55
80	120	45
80	140	40
80	160	35
80	180	30
80	200	25
80	220	25
80	240	20
80	260	20
80	280	20
100	100	44
100	120	36
100	140	32
100	160	28
100	180	24
100	200	20
100	220	20
100	240	16
120	120	27
120	140	24
120	180	18
120	220	15
120	240	12

Manufactured according to EN 15497:2014

DUO-LAM | BRANDENBURG PINE



Standard length 12 m | Strength C24 according to DIN EN 338:2010-02 (MPA Stuttgart)

Non-visible quality, kiln dried, finger-jointed, planed, chamfered edges		
Thickness mm	Width mm	PU Baruth pieces
140	140	24
140	160	21
140	180	18
140	200	15
140	240	12
160	160	14
160	180	12
160	200	10

Manufactured according to DIN EN 14080

TRIO-LAM | BRANDENBURG PINE



Standard length 12 m | Strength C24 according to DIN EN 338:2010-02 (MPA Stuttgart)

Non-visible quality, kiln dried, finger-jointed, planed, chamfered edges		
Thickness mm	Width mm	PU Baruth pieces
160	240	8
200	200	10

Manufactured according to DIN EN 14080

SLATS | BRANDENBURG PINE



Standard length 5 m | Strength I/II

Kiln dried, equalized		
Thickness mm	Width mm	PU Baruth pieces
24	65	480
30	65	336

FRAMES | BRANDENBURG PINE



Standard length 5 m | Strength I/II

Rough-hewn, kiln dried, dimensionally stable, fine saw cutting		
Thickness mm	Width mm	PU Baruth pieces
40	60	324
60	60	216

SPRUCE



Standard length 13 m | Strength C24 according to DIN EN 338:2010-02

Non-visible quality, kiln dried to 15% +/- 3% wood moisture, planed on 4-sides and chamfered, finger-joint glued polyurethane (PUR)		
Thickness mm	Width mm	PU Jenbach pieces
45	120	80
45	145	64
45	220	40
60	80	90
60	100	72
60	120	60
60	140	48
60	160	42
60	180	36
60	200	36
60	220	30
60	240	30
80	80	70
80	100	60
80	120	50
80	140	40
80	160	35
80	180	30
80	200	30
80	220	25
80	240	25
100	100	48
100	120	40
100	140	32
100	160	28
100	180	24
100	200	24
100	220	20
100	240	20
120	120	30
120	140	24
120	160	21
120	180	18
120	200	15
120	220	15
120	240	15

Manufactured according to EN 15497:2014

Only available in combination with glulam at the Jenbach location

SOLID WOOD FOR CONSTRUCTION KVH® LOAD TABLE

Load (KN/m)	Single-span beams												Two-span beams											
	1,5	2	2,5	3	3,5	4	4,5	5	5,5	6	6,5	7	1,5	2	2,5	3	3,5	4	4,5	5	5,5	6	6,5	7
Cross-section (mm)	max. span length (m)												max. span length (m)											
60/80	1,63	1,48	-	-	-	-	-	-	-	-	-	-	1,94	1,68	1,50	-	-	-	-	-	-	-	-	-
60/100	2,04	1,85	1,72	1,61	1,54	-	-	-	-	-	-	-	2,42	2,10	1,87	1,70	1,58	-	-	-	-	-	-	-
60/120	2,45	2,22	2,07	1,93	1,84	1,70	1,60	1,51	-	-	-	-	2,90	2,52	2,24	2,04	1,90	1,78	1,68	1,58	-	-	-	-
60/140	2,86	2,59	2,41	2,26	2,14	1,98	1,87	1,76	1,68	1,61	1,55	1,49	3,38	2,94	2,61	2,38	2,21	2,08	1,96	1,85	1,76	1,69	1,63	1,57
60/160	3,27	2,97	2,76	2,58	2,44	2,27	2,13	2,02	1,92	1,84	1,77	1,70	3,87	3,36	2,99	2,72	2,53	2,37	2,24	2,11	2,01	1,93	1,86	1,79
60/180	3,67	3,34	3,10	2,91	2,73	2,55	2,40	2,27	2,17	2,07	1,99	1,91	4,35	3,78	3,36	3,06	2,85	2,67	2,52	2,38	2,26	2,17	2,09	2,01
60/200	4,08	3,71	3,45	3,23	3,03	2,83	2,67	2,52	2,41	2,31	2,22	2,13	4,83	4,20	3,73	3,40	3,17	2,96	2,79	2,64	2,52	2,42	2,32	2,24
60/220	4,49	4,08	3,79	3,56	3,33	3,12	2,93	2,78	2,66	2,54	2,44	2,34	5,31	4,62	4,10	3,74	3,48	3,26	3,07	2,91	2,77	2,66	2,55	2,46
60/240	4,90	4,45	4,14	3,88	3,63	3,40	3,20	3,03	2,90	2,77	2,66	2,55	5,79	5,04	4,47	4,08	3,80	3,55	3,35	3,17	3,02	2,90	2,78	2,68
80/100	2,25	2,04	1,90	1,78	1,69	1,62	1,54	-	-	-	-	-	2,79	2,42	2,16	1,98	1,82	1,70	1,61	1,53	-	-	-	-
80/120	2,70	2,45	2,28	2,14	2,03	1,94	1,85	1,75	1,67	1,60	1,53	1,46	3,35	2,91	2,59	2,37	2,19	2,05	1,93	1,84	1,75	1,68	1,61	-
80/140	3,14	2,86	2,65	2,49	2,37	2,27	2,16	2,04	1,95	1,87	1,79	1,71	3,90	3,39	3,03	2,76	2,56	2,39	2,26	2,14	2,04	1,96	1,88	1,80
80/160	3,59	3,27	3,03	2,85	2,71	2,59	2,47	2,34	2,22	2,13	2,05	1,96	4,46	3,88	3,46	3,15	2,93	2,74	2,58	2,45	2,33	2,24	2,15	2,06
80/180	4,04	3,68	3,40	3,21	3,04	2,91	2,77	2,63	2,50	2,40	2,31	2,21	5,01	4,36	3,90	3,55	3,29	3,08	2,91	2,76	2,63	2,52	2,42	2,32
80/200	4,49	4,09	3,78	3,57	3,38	3,23	3,08	2,92	2,77	2,67	2,56	2,46	5,57	4,85	4,33	3,94	3,66	3,43	3,23	3,07	2,92	2,79	2,68	2,58
80/220	4,93	4,50	4,15	3,92	3,72	3,56	3,39	3,22	3,05	2,93	2,82	2,71	6,12	5,33	4,77	4,33	4,03	3,77	3,56	3,37	3,21	3,07	2,95	2,84
80/240	5,38	4,91	4,53	4,28	4,06	3,88	3,70	3,51	3,32	3,20	3,08	2,96	6,68	5,82	5,20	4,72	4,40	4,12	3,88	3,68	3,50	3,35	3,22	3,10
100/100	2,42	2,20	2,04	1,92	1,82	1,75	1,68	1,61	1,56	1,49	-	-	3,12	2,70	2,42	2,20	2,05	1,91	1,80	1,71	1,63	1,56	1,50	-
100/120	2,90	2,64	2,45	2,30	2,19	2,10	2,02	1,94	1,87	1,79	1,72	1,65	3,74	3,24	2,91	2,64	2,46	2,29	2,16	2,05	1,96	1,88	1,80	1,73
100/140	3,39	3,08	2,86	2,69	2,55	2,45	2,35	2,26	2,18	2,09	2,06	1,98	4,36	3,79	3,39	3,09	2,87	2,68	2,52	2,39	2,28	2,19	2,10	2,02
100/160	3,87	3,52	3,27	3,07	2,92	2,80	2,69	2,59	2,49	2,39	2,41	2,31	4,98	4,33	3,88	3,53	3,28	3,06	2,88	2,73	2,61	2,51	2,40	2,30
100/180	4,35	3,96	3,68	3,45	3,28	3,14	3,02	2,91	2,81	2,68	2,75	2,65	5,59	4,87	4,36	3,97	3,69	3,45	3,25	3,08	2,94	2,82	2,70	2,59
100/200	4,83	4,40	4,09	3,83	3,65	3,49	3,36	3,24	3,12	2,98	3,10	2,98	6,21	5,41	4,85	4,41	4,10	3,83	3,61	3,42	3,27	3,14	3,00	2,88
100/220	5,32	4,84	4,50	4,22	4,01	3,84	3,69	3,56	3,43	3,28	3,44	3,31	6,83	5,96	5,33	4,86	4,51	4,22	3,97	3,76	3,59	3,45	3,30	3,16
100/240	5,80	5,28	4,91	4,60	4,38	4,19	4,03	3,89	3,74	3,58	3,44	3,31	7,45	6,50	5,82	5,30	4,92	4,60	4,33	4,10	3,92	3,77	3,60	3,45
120/120	3,08	2,80	2,60	2,44	2,33	2,22	2,14	2,07	2,00	1,94	1,88	1,81	4,08	3,55	3,17	2,90	2,68	2,50	2,37	2,25	2,15	2,06	1,97	1,90
120/140	3,60	3,27	3,03	2,85	2,72	2,59	2,50	2,41	2,33	2,27	2,20	2,11	4,77	4,15	3,70	3,39	3,13	2,92	2,77	2,63	2,51	2,40	2,30	2,21
120/160	4,11	3,73	3,46	3,26	3,10	2,96	2,85	2,75	2,67	2,59	2,51	2,42	5,45	4,74	4,24	3,87	3,58	3,33	3,16	3,00	2,87	2,74	2,62	2,53
120/180	4,63	4,20	3,90	3,67	3,49	3,34	3,21	3,10	3,00	2,92	2,83	2,72	6,14	5,34	4,77	4,36	4,03	3,75	3,56	3,38	3,23	3,08	2,95	2,84
120/200	5,15	4,67	4,33	4,08	3,88	3,71	3,57	3,44	3,33	3,24	3,14	3,02	6,83	5,93	5,30	4,85	4,48	4,17	3,95	3,75	3,58	3,42	3,28	3,15
120/220	5,66	5,13	4,76	4,49	4,26	4,08	3,92	3,78	3,67	3,57	3,46	3,33	7,51	6,53	5,84	5,33	4,93	4,58	4,35	4,13	3,94	3,76	3,60	3,47
120/240	6,18	5,60	5,19	4,90	4,65	4,45	4,28	4,12	4,00	3,89	3,77	3,63	8,20	7,12	6,37	5,82	5,38	5,00	4,74	4,50	4,30	4,10	3,93	3,78

Note: All design tables are for sizing purposes only and do not replace a static calculation that can only be performed by authorized persons.

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