

Declaration of Performance

1. Ref. no. PM – 017 – 2022

2. Type Laminated veneer lumber made from beech

3. Purpose Laminated veneer lumber according to EN 14374:2005-02 for

non-load-bearing, load-bearing and stiffening elements

4. Trade name Board BauBuche S

Board BauBuche Q

Manufacturer Pollmeier Furnierwerkstoffe GmbH

Pferdsdorfer Weg 6 D-99831 Creuzburg

5. Contact details of authorised person

No authorised representative

6. Constancy of

performance

System 1

7. Certifying body MPA Stuttgart 0672

Certificate of Constancy of Performance No. 0672-CPR-0415

8. Certifying body not relevant



9. Declared performance

9.1 Product description

The laminated veneer lumber is made from glued, dried beech veneer sheets with a width of up to H = 1850 mm and a length of up to L = 35 m.

Table 1: Structure of Board BauBuche S (beech LVL, parallel ply)

Element thickness B not sanded – nominal dimension in mm	Element thickness B sanded – nominal dimension in mm	Number of plies	Structure		
21	19	7	IIIIIII		
21	20	7	IIIIIII		
24	22	8	IIIIIIII		
27	25	9	IIIIIIIII		
30	28	10	IIIIIIIII		
33	30	11	IIIIIIIIII		
33	31	11	IIIIIIIIII		
36	34	12	IIIIIIIIII		
39	37	13	IIIIIIIIIII		
42	40	14	IIIIIIIIIIII		
45	43	15	IIIIIIIIIIII		
48	46	16	IIIIIIIIIIIII		
51	49	17	IIIIIIIIIIIIII		
54	50	18	IIIIIIIIIIIIII		
54	52	18	IIIIIIIIIIIIIII		
57	55	19	IIIIIIIIIIIIIIII		
60	58	20	IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII		
63	60	21	IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII		
63	61	21	IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII		
66	64	22	IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII		
I ply parallel to long side					





Table 2: Structure of Board BauBuche Q (beech LVL, cross ply)

Element thickness B not sanded – nominal	Element thickness B sanded – nominal	Number of plies			Structure
dimension in mm	dimension in mm	parallel	cross	total	
21	19	5	2	7	I-III-I
21	20	5	2	7	I-III-I
24	22	6	2	8	I-IIII-I
27	25	7	2	9	II-III-II
30	28	8	2	10	II-IIII-II
33	30	9	2	11	II-IIII-II
33	31	9	2	11	II-IIII-II
36	34	10	2	12	III-IIII-III
39	37	11	2	13	III-IIIII-III
42	40	12	2	14	III-IIIIII-III
45	43	13	2	15	III-IIIIIII-III
48	46	14	2	16	III-IIIIIIII-III
51	49	15	2	17	III-IIIIIIII-III
54	50	16	2	18	III-IIIIIIIIII-III
54	52	16	2	18	III-IIIIIIIIII-III
57	55	17	2	19	III-IIIIIIIIIII-III
60	58	18	2	20	III-IIIIIIIIIIIIII
63	60	17	4	21	III-II-IIIIIII-II-III
63	61	17	4	21	III-II-IIIIIII-II-III
66	64	18	4	22	III-II-IIIIIIII-II-III

I ply parallel to long side

⁻ ply at right angle to long side



9.2 Application

"Board BauBuche S" and "Board BauBuche Q" laminated veneer lumber according to EN 14374 are approved for use in all non-load bearing, load bearing and stiffening elements dimensioned and produced according to EN 1995-1-1 in conjunction with EN 1995-1-1/NA.

"Board BauBuche S" and "Board BauBuche Q" laminated veneer lumber are approved for use in service classes 1 and 2 according to EN 1995-1-1.

9.3 Declared strength, stiffness and density characteristics

Table 3: Characteristic strength and stiffness in N/mm², and density in kg/m³

Type of load Nominal thickness in mm		Board BauBuche S laminated veneer lumber	Board BauBuche Q laminated veneer lumber			
		20 ≤ B ≤ 80	≤ 24 ^{a)}	27 ≤ B ≤ 66		
Characteristic strength values						
Flatwise load						
Bending	f _{m,0,flat,k}	80	70	75		
	f _{m,90,flat,k}		34	21		
Compression	f _{c,90,flat,k}	10 °)	16 °)			
Shear	f _{v,0,flat,k}	8	3.8			
Edgewise load						
Bending ^{b)}	f _{m,0,edge,k}	75	54	59		
	f _{m,90,edge,k}		16	9		
Tensile to grain	f _{t,0,k}	60	46	49		
Tensile [⊥] to grain	f _{t,90,edge,k}	1.5	15	8		
Compressive to grain	f _{c,0,k}	57.5 °)	57 ^{c)}	62 ^{c)}		
Compressive [⊥] to grain	f _{c,90,edge,k}	14	40 c)	22 ^{c)}		
Shear	$f_{v,0,\text{edge},k}$	8	7.8			



Type of load		Board BauBuche S laminated veneer lumber	Board BauBuche Q laminated veneer lumber			
Nominal thickness in mm		20 ≤ B ≤ 80	≤ 24 ^{a)}	27 ≤ B ≤ 66		
Characteristic stiffness values						
Modulus of elasticity	E _{0,mean}	16800	11800	12800		
	E _{0.05}	14900	10900	11800		
	E _{90,mean}	470	3500	2000		
Shear modulus edgewise	G _{v,0,edge,mean}	760	820			
Shear modulus flatwise	G _{v,0,flat,mean}	850	430			
Density						
Mean density	p _{mean}	800	770	800		
Charact. density	pk	730				

- a) "Board BauBuche Q" with a nominal thickness of ≤ 24 mm according to appendix 2 must not be used in edge bending constructions.
- Values valid for H \leq 300 mm. For 300 < H \leq 1000 mm, the characteristic strength value must be multiplied with coefficient $k_h = (300/h)^{0.12}$. H is the total cross section in mm relevant for the determination of the bending strength.
- c) For use in service class 1, the compressive strength may be increased by factor 1.2.



9.4 Fire safety

According to the Commission Delegated Regulation (EU) 2017/2293, the products "Board BauBuche S" and "Board BauBuche Q" are in class D-s2, d0. For design values of the charring rates for laminated veneer lumber, see EN 1995-1-2.

9.5 Moisture protection, sound insulation, thermal insulation

For the required analyses with regard to moisture protection, sound insulation and thermal insulation, the existing regulations, standards and guidelines for glulam ("Board BauBuche S") and laminated veneer lumber for building construction ("Board BauBuche Q") apply. For shrinking and swelling values, see the national annex EN 1995-1-1/NA.

9.6 Formaldehyde class

With regard to formaldehyde emissions, the laminated veneer lumber products "Board BauBuche S" and "Board BauBuche Q" conform to class E1, in line with the requirements laid down in EN 14374.

10. Declaration

The performance of the products specified in 1 and 2 corresponds to the declared performance in 9. This Declaration of Performance has been issued at the sole responsibility of the manufacturer named in 4.

Signed on behalf of the manufacturer:

Creuzburg, 13 April 2022

Patrik Rodlberger

Managing Director