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Declaration of Performance

1. Ref. No. PM – 012 – 2019

2. Type Spruce laminated veneer lumber

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

02 for load-bearing, stiffening and non-load-bearing

elements

4. Trade name Pollmeier Spruce LVL Q

Manufacturer Pollmeier Furnierwerkstoffe GmbH

Pferdsdorfer Weg 6 D-99831 Creuzburg

5. Contact details not relevant (see 4)

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 spruce veneer sheets with a width of up to H = 1850 mm and a length of up to L 18 m.

Table 1: Structure of Pollmeier Spruce LVL Q ((spruce LVL, cross ply)

Element thickness B not	Number of plies			Structure	
sanded – nominal dimension in mm	parallel cross tota		total	Structure	
21	5	2	7	I-III-I or II-I-II	
24	6	2	8	II-II-II	
27	7	2	9	II-III-II	
30	8	2	10	II-IIII-II	
33	9	2	11	II-IIII-II	
36	10	2	12	III-IIII-III	
39	10	3	13	III-II-III	
42	12	2	14	III-IIIII-III	
45	12	3	15	III-III-III	
48	14	2	16	III-IIIIIII-III	
51	14	3	17	III-IIII-IIII	
54	16	2	18	III-IIIIIIIIII	
57	15	4	19	III-II-IIIII-II	
60	16	4	20	III-II-IIIIII-II-III	
63	16	5	21	III-II-III-III-III	
66	18	4	22	III-II-IIIIIII-II-III	
I ply parallel to	•	a side		,	

⁻ ply at right angles to long side

9.2 Application

"Pollmeier Spruce LVL Q" laminated veneer lumber according to EN 14374 is approved for the use in all load-bearing, stiffening and non-load-bearing elements dimensioned and produced according to EN 1995-1-1in conjunction with EN 1995-1-1/NA.

"Pollmeier Spruce LVL Q" laminated veneer lumber is approved for the use in service classes 1 and 2 according to EN 1995-1-1.



9.3 Declared strength, stiffness and density characteristics

Table 2: Characteristic strength and stiffness in N/mm², and density in kg/m³

Type of load	Pollmeier Spruce LVL Q						
Nominal thickness in mm	21	24 ≤ B ≤ 66					
Characteristic strength values							
Flatwise load [N/mm²]							
Bending	f _{m,0,flat,k}	32	36				
bending	f _{m,90,flat,k}	8	8				
ompression f _{c,90,flat,k}		4					
Shear	$f_{v,0,flat,k}$	1,3					
Edgewise load [N/mm²]							
Bending a)	$f_{m,0,edge,k}$	30	32				
	$f_{m,90,edge,k}$	10	7				
Tensile ∥ to grain	$f_{t,0,k}$	19	25,5				
Tensile ⊥ to grain	f _{t,90,edge,k}	7	3,5				
Compressive to grain	f _{c,0,k}	26	30				
Compressive ⊥ to grain	f _{c,90,edge,k}	11	9				
Shear	$f_{v,0,edge,k}$	4,1					
Characteristic stiffness values [N/mm²]							
	E _{0,mean}	10000	10600				
Modulus of elasticity	E _{0,05}	9000	9000				
	E _{90,edge,mean}	3500	2300				
Shear modulus edgewise	G _{v,0,edge,mean}	edge,mean 590					
Shear modulus flatwise	G _{v,0,flat,mean}	150					
Density [kg/m³]							
Mean density	ρ _{mean}	530					
Charact. density	ρ _k	480					
a) Values valid for H \leq 300 mm. For 300 < H \leq 1000 mm, the characteristic strength value must be multiplied with coefficient $k_h = (300/h)^{0,15}$. H is the total cross section in mm relevant for the determination of the bending strength.							

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9.4 Fire safety

According to Commission Delegated Regulation (EU) 2017/2293, the product "Pollmeier Spruce LVL Q" is in class D-s2, d0.

For design values of the charring rates for laminated veneer lumber, see EN 1995-1-2.

9.5 Formaldehyde class

With regard to formaldehyde emissions, "Pollmeier Spruce LVL Q" conforms to class E1, in line with the requirements laid down in EN 14374.

9.6 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, 09 January 2019

Ralf Polimeier

Managing Director