

31.01.2022

Declaration of Performance

No. SEWPVARDOP 06

LVL by Stora Enso, X grade

1. Construction product

Structural laminated veneer lumber which fulfills the requirements according to EN 14374:2004. For further or more detailed information on the delivered product, in addition to what is given below, see information on the packaging or in possible accompanying commercial document.

2. Type

LVL by Stora Enso, X grade. Dimensions: Thickness 24-75 mm, Width 45-2500 mm

3. Intended use of the construction product

Buildings and bridges.

4. Producer

Company: Stora Enso Oyj, Varkaus LVL mill
Address: Taipaleentie 15
78201 Varkaus
Finland
Telephone: +358 2046 111
E-mail: jaakko.huovinen@storaenso.com
Web site: www.storaenso.com

5. System of assessment and verification of constancy of performance of the construction product

System 1

6. Certification

The notified body Inspecta Sertifiointi Oy (identification number 0416) has performed an initial inspection of the manufacturing plant and of the factory production control and performs continuous surveillance, assessment and evaluation of our factory production control. Inspecta Sertifiointi Oy has issued CE Certificate of constancy of performance 0416-CPR-13111-01.

7. Declared performance

Performance for LVL in conformity with the harmonized European standard EN 14374:2004 Timber Structures – Structural laminated veneer lumber – Requirements.

Property	Performance	
Thickness	24–75 mm	EN 14374:2004
Strength		
Bending strength Edgewise, parallel to grain Size effect parameter Flatwise, parallel to grain Flatwise, perpendicular to grain	32 N/mm ² 0,12 36 N/mm ² 8 N/mm ²	
Tension strength, Parallel Perpendicular, edgewise	26 N/mm ² 6 N/mm ²	
Compression strength, Parallel Perpendicular, edgewise Perpendicular, flatwise	26 N/mm ² 9 N/mm ² 2,2 N/mm ²	
Shear strength, edgewise, parallel to grain flatwise, parallel to grain flatwise, perpendicular to grain	4,5 N/mm ² 1,3 N/mm ² 0,6 N/mm ²	
Modulus of elasticity Parallel to grain, mean Parallel to grain, 5 % - fractile perpendicular to grain, edgewise, mean perpendicular to grain, edgewise, 5 %- fractile perpendicular to grain, flatwise, mean perpendicular to grain, flatwise, 5 % - fractile	10 500 N/mm ² 8 800 N/mm ² 2 400 N/mm ² 2 000 N/mm ² 2 000 N/mm ² 1 700 N/mm ²	
Shear modulus, edgewise, mean edgewise, 5 % - fractile flatwise, mean flatwise, 5 % - fractile	600 N/mm ² 400 N/mm ² 120 N/mm ² 100 N/mm ²	
Density		
Mean 5 % - fractile	510 kg/m ³ 480 kg/m ³	
Reaction to fire	D-s1, d0	
Release of formaldehyde	E1	
Natural durability against biological attack	4	

8. The performance for our construction product LVL by Stora Enso, X grade, product thicknesses (24-75) mm, is in accordance with the declared performance given in point 7. The manufacturer mentioned in point 4 is solely responsible for this declaration of performance.

Varkaus, 31.01.2022



Jaakko Huovinen
Operations Director

Stora Enso Oyj, Wood Products Varkaus Unit