

21.02.2020

# 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 Wood Products Oy Ltd, Varkaus LVL - mill

Address:

Taipaleentie 15

78201 Varkaus

Finland

Telephone:

+358 2046 111

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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 VTT Expert Services Oy (identification number 0809) 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. VTT Expert Services has issued CE Certificate of constancy of performance 0809-CPR-1214.



## 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	
Strength		
Bending strength		
Edgewise, parallel to grain	32 N/mm <sup>2</sup>	
Size effect parameter	0,12	
Flatwise, parallel to grain	36 N/mm <sup>2</sup>	
Flatwise, perpendicular to grain	8 N/mm <sup>2</sup>	
Tension strength,		EN 14374:2004
Parallel	26 N/mm <sup>2</sup>	
Perpendicular, edgewise	6 N/mm <sup>2</sup>	
Compression strength,		
Parallel	26 N/mm <sup>2</sup>	
Perpendicular, edgewise	9 N/mm <sup>2</sup>	
Perpendicular, flatwise	2,2 N/mm <sup>2</sup>	
Shear strength,		
edgewise, parallel to grain	4,5 N/mm <sup>2</sup>	
flatwise, parallel to grain	1,3 N/mm <sup>2</sup>	
flatwise, perpendicular to grain	0,6 N/mm <sup>2</sup>	
Modulus of elasticity		
Parallel to grain, mean	10 500 N/mm <sup>2</sup>	
Parallel to grain, 5 % -fractile	8 800 N/mm <sup>2</sup>	
perpendicular to grain, edgewise, mean	2 400 N/mm <sup>2</sup>	
perpendicular to grain, edgewise, 5 %-fractile	2 000 N/mm <sup>2</sup>	
perpendicular to grain, flatwise, mean	2 000 N/mm <sup>2</sup>	
perpendicular to grain, flatwise, 5 % -fractile	1 700 N/mm <sup>2</sup>	
Shear modulus,		
edgewise, mean	600 N/mm <sup>2</sup>	
edgewise, 5 % -fractile	400 N/mm <sup>2</sup>	
flatwise, mean	120 N/mm <sup>2</sup>	
flatwise, 5 % -fractile	100 N/mm <sup>2</sup>	
Density		
Mean	510 kg/m <sup>3</sup>	
5 % - fractile	480 kg/m <sup>3</sup>	
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, 21.02.2020

Operations Director
Stora Enso Wood Products Varkaus Unit