

# Declaration of Performance

## No. SEWPVARDOP 05

### LVL by Stora Enso, S grade

**1. Construction product**

Structural laminated veneer lumber (LVL) 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, S 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 Oyj, Varkaus LVL mill  
Address: Taipaleentie 15  
78201 Varkaus  
Finland  
Telephone: +358 2046 111  
E-mail: [lvl.supply@storaenso.com](mailto:lvl.supply@storaenso.com)  
Web site: [www.storaenso.com](http://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-13109-1.

## 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	
<b>Thickness</b>	24–75 mm	EN 14374:2004
<b>Strength</b>		
Bending strength Edgewise Size effect parameter Flatwise	44 N/mm <sup>2</sup> 0,12 50 N/mm <sup>2</sup>	
Tension strength, Parallel Perpendicular	35 N/mm <sup>2</sup> 0,8 N/mm <sup>2</sup>	
Compression strength, Edgewise, parallel Edgewise, perpendicular Flatwise, perpendicular	35 N/mm <sup>2</sup> 6 N/mm <sup>2</sup> 2,2 N/mm <sup>2</sup>	
Shear strength, edgewise, parallel flatwise, parallel	4,2 N/mm <sup>2</sup> 2,3 N/mm <sup>2</sup>	
Modulus of elasticity in bending Parallel to grain, along, <b>mean</b> Parallel to grain, along, <b>5 % -fractile</b>	13 800 N/mm <sup>2</sup> 11 600 N/mm <sup>2</sup>	
Modulus of elasticity in compression Perpendicular to grain flatwise <b>mean</b> <b>5 % -fractile</b>	80 N/mm <sup>2</sup> 50 N/mm <sup>2</sup>	
Shear modulus, edgewise, <b>mean</b> edgewise, <b>5 % -fractile</b>	600 N/mm <sup>2</sup> 400 N/mm <sup>2</sup>	
<b>Density</b>		
Mean 5 % - fractile	510 kg/m <sup>3</sup> 480 kg/m <sup>3</sup>	
<b>Reaction to fire</b>	D-s1, d0	
<b>Release of formaldehyde</b>	E1	
<b>Natural durability against biological attack</b>	4	

8. The performance for our construction product LVL by Stora Enso, S 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 31.07.2023



Olli Pyylampi  
Mill Director

Stora Enso Oyj, Wood Products Varkaus Unit