DECLARATION OF PERFORMANCE

NO. MW/LVL/311-001/CPR/DOP



1 (3)

1. PRODUCT-TYPE: Kerto-S

Structural Laminated Veneer Lumber

2. TYPE, BATCH OR SERIAL NUMBER OR OTHER IDENTIFICATION: Kerto-S Structural Laminated Veneer Lumber

3. INTENDED USE OR USES:

Buildings and bridges

4. NAME AND ADDRESS OF THE MANUFACTURER:

Metsäliitto Cooperative Metsä Wood P.O.Box 24 FI-08101 Lohja, Finland Tel. +358 10 4656 499 www.metsawood.com

6. SYSTEM OF ASSESSMENT AND VERIFICATION OF CONSTANCY OF PERFORMANCE: AVCP System 1

7. CONSTRUCTION PRODUCT COVERED BY A HARMONISED STANDARD:

VTT Expert Services Ltd, Notified product certification body No. 0809 performed determination of the product type on the basis of type testing (including sampling), type calculation, tabulated values or descriptive documentation of the product; initial inspection of the manufacturing plants and of factory production control and performs the continuous surveillance, assessment and evaluation of factory production control under system 1 and issued the certificate of constancy of performance:

0809 - CPR - 1002



9. DECLARED PERFORMANCE

ESSENTIAL CHARACTERISTICS	SYMBOL	PERFORMANCE	HARMONIZED TECHNICAL SPECIFICATION
		KERTO-S THICKNESS 21 - 90 mm	
Modulus of elasticity and shear modulus Modulus of elasticity, mean values Parallel to grain, along	E _{0,mean}	N/mm ² or kg/m ³ 13800	
Parallel to grain, along Parallel to grain, across Perpendicular to grain, edgewise Perpendicular to grain, flatwise	E0,mean E90,mean E90,edge,mean E90,flat,mean	NPD NPD NPD	
Modulus of elasticity, fifth percentile value Parallel to grain, along Parallel to grain, across Perpendicular to grain, edgewise Perpendicular to grain, flatwise	E _{0,k} E _{90,k} E _{90,edge,k} E _{90,flat,k}	11600 NPD NPD NPD	
<u>Shear modulus, mean values</u> Edgewise Flatwise, parallel to grain Flatwise, perpendicular to grain	G _{0,edge,mean} G _{0,flat,mean} G _{90,flat,mean}	600 600 NPD	
<u>Shear modulus, fifth percentile value</u> Edgewise Flatwise, parallel to grain Flatwise, perpendicular to grain	G _{0,edge,k} G _{0,flat,k} G _{90,flat,k}	400 400 NPD	
Strength, fifth percentile values Bending strength			
Edgewise (depth 300mm) Size effect parameter Flatwise, parallel to grain Flatwise, perpendicular to grain	f _{m,0,edge,k} S f _{m,0,flat,k} f _{m,90,flat,k}	44.0 0.12 50.0 NPD	EN 14374:2004
<u>Compression strength</u> Parallel to grain Perpendicular to grain, edgewise Perpendicular to grain, flatwise (spruce) Perpendicular to grain, flatwise (pine)	f _{c,0,k} f _{c,90,edge,k} f _{c,90,flat,k} f _{c,90,flat,k}	35.0 6.0 1.8 3.3	
<u>Tension strength</u> Parallel to grain (length 3000mm) Perpendicular to grain, edgewise Perpendicular to grain, flatwise	$f_{t,0,k}$ $f_{t,90,edge,k}$ $f_{t,90,flat,k}$	35.0 0.8 NPD	
<u>Shear strength</u> Edgewise Flatwise, parallel to grain Flatwise, perpendicular to grain	f _{v,0,edge,k} f _{v,0,flat,k} f _{v,90,flat,k}	4.1 2.3 NPD	
Density Density, mean value Density, fifth percentile value	ρ _{mean} ρ _k	510 480	
Bonding quality		requirement fulfilled	
Reaction to fire		D-s1,d0	
Release of formaldehyde		E1	
Natural durability against biological attack (EN 350-2)		Class 4	

The material values in this DoP are to be used for structural calculations with EN 1995 (Eurocode 5).



10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9.

This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

Signed for and on behalf of the manufacturer by:

Arto Salo VP, Product Category Kerto Building and Industry business line

Lohja 15.10.2013

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