

DECLARATION OF PERFORMANCE

No. **UPM003CPR**

1. Identification code of the product-type:
Structural spruce plywood, uncoated
2. Type, batch or serial number of any other element allowing identification of the construction product:
Structural spruce plywood, uncoated, 9,4-25 mm
3. Intended use or uses of the construction product:
For internal use as a structural component in dry conditions, EN 636-1
For protected external use as a structural component in humid conditions, EN 636-2
4. Name, registered trade name or registered trade mark and contact address of the manufacturer:
WISA®
UPM-Kymmene Wood Oy
P.O. Box 203
FI-15141 Lahti, Finland
www.wisaplywood.com
6. System or systems of assessment and verification of constancy of performance of the construction product:
AVCP system 2+
7. In case of the declaration of performance concerning a construction product covered by a harmonised standard:
Notified factory production control certification body Inspecta Sertifiointi Oy No. 0416 performed the initial inspection of the manufacturing plant and a factory production control and continuous surveillance, assessment and evaluation of factory production control and issued the certificate of conformity of the factory production control 0416-CPR-7110.
9. Declared performance

Essential characteristics	Performance	Harmonised technical specification
Reaction to fire	D-s2,d0	EN 13986:2004
Water vapour permeability μ	wet 66, dry 190 (uncoated)	
Release of formaldehyde	E1	
Content of pentachlorophenol (PCP)	No indication	
Airborne sound insulation	NPD	
Sound absorption α	0,10/0,30	
Thermal conductivity λ	0,13	
Bonding quality (acc. to EN 314-2)	Class 3	
Biological durability	Use class 2	

9. Declared performance, strength and stiffness for structural use

Nominal thickness	9,4	10	11	12	14	18	21	22	25		
Number of plies	3	3	3	4	4	5	6	7	7		
Essential characteristics	Performance										Harmonised technical specification EN 13986:2004
Characteristic bending strength N/mm ²	$f_{m }$	28,3	28,7	28,9	23,2	25,7	23,1	21,5	20,6	20,7	
	$f_{m\perp}$	4,4	3,7	3,3	5,8	8,2	11,1	12,3	12,8	12,7	
Characteristic compression strength N/mm ²	$f_{c }$	18,5	19,4	20,0	11,7	14,3	17,6	19,7	16,8	16,8	
	$f_{c\perp}$	11,5	10,6	10,0	13,2	15,7	12,4	10,3	13,2	13,2	
Characteristic tension strength N/mm ²	$f_{t }$	11,1	11,6	12,0	7,0	8,6	10,6	11,8	10,1	10,1	
	$f_{t\perp}$	6,9	6,4	6,0	7,9	9,4	7,4	6,2	7,9	7,9	
Mean MOE in bending N/mm ²	$E_{m }$	11326	11472	11556	9274	10296	9237	8615	8243	8277	
	$E_{m\perp}$	674	528	444	1027	1704	2763	3385	3757	3723	
Mean MOE in compression and tension N/mm ²	$E_{tc }$	7404	7765	8000	4678	5739	7034	7886	6716	6732	
	$E_{tc\perp}$	4596	4235	4000	5288	6261	4966	4114	5284	5268	
Char. panel shear N/mm ²	$f_{v }$	3,5				3,5			3,5	3,5	
	$f_{v\perp}$	3,5				3,5			3,5	3,5	
Char. Planar shear N/mm ²	$f_{r }$	0,8				0,8			1,0	0,8	
	$f_{r\perp}$	NPD				0,5			0,8	0,6	
Mean MOR in panel shear N/mm ²	$G_{v }$	350				350			350	350	
	$G_{v\perp}$	350				350			350	350	
Mean MOR in planar shear N/mm ²	$G_{r }$	33				51			52	52	
	$G_{r\perp}$	NPD				25			37	37	
Strength and stiffness under point load	NPD										
Impact resistance	NPD										

k_{mod} and k_{def} values according to EN 1995-1-1

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:

Lahti, Finland, 1 July, 2013



Riku Härkönen, Portfolio Manager