

DECLARATION OF PERFORMANCE

No. **UPM022CPR**

1. Identification code of the product-type:
Structural birch plywood, uncoated
2. Type, batch or serial number of any other element allowing identification of the construction product:
Structural birch plywood, uncoated, 12-30 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 Sertifointi 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 certificates of conformity of the factory production control 0416-CPR-7108 (Joensuu), 0416-CPR-7109 (Jyväskylä), 0416-CPR-7110 (Pellos), 0416-CPR-7111 (Savonlinna), 0416-CPR-7112 (Chudovo), 0416-CPR-7113 (Otepää).
9. Declared performance

Essential characteristics	Performance	Harmonised technical specification
Reaction to fire	D-s2,d0	EN 13986:2004
Water vapour permeability μ	wet 90, dry 220	
Release of formaldehyde	E1	
Content of pentachlorophenol (PCP)	No indication	
Airborne sound insulation	NPD	
Sound absorption α	0,10/0,30	
Thermal conductivity λ	0,17	
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		12	15	18	21	24	27	30	
Number of plies		9	11	13	15	17	19	21	
Essential characteristics		Performance							
Characteristic bending strength N/mm ²	$f_{m }$	59,0	55,5	52,9	50,9	49,2	47,9	46,8	
	$f_{m\perp}$	18,9	21,8	23,9	25,4	26,5	27,4	28,1	
Characteristic compression strength N/mm ²	$f_{c }$	33,8	32,3	31,3	30,6	30,0	29,6	29,3	
	$f_{c\perp}$	18,2	19,7	20,7	21,4	22,0	22,4	22,8	
Characteristic tension strength	$f_{t }$	48,8	46,6	45,2	44,1	43,3	42,7	42,2	
	$f_{t\perp}$	26,3	28,4	29,8	30,9	31,7	32,3	32,8	
Mean MOE in bending N/mm ²	$E_{m }$	14749	13886	13228	12715	12305	11970	11692	
	$E_{m\perp}$	2751	3614	4272	4785	5195	5530	5808	
Mean MOE in compression and tension N/mm ²	$E_{tc }$	11375	10878	10540	10294	10108	9962	9844	
	$E_{tc\perp}$	6125	6622	6960	7206	7392	7538	7656	
Char. panel shear N/mm ²	$f_{v }$	9,5			9,5				
	$f_{v\perp}$	9,5			9,5				
Char. Planar shear N/mm ²	$f_{r }$	2,7	2,8	2,7	2,8	2,7	2,7	2,7	
	$f_{r\perp}$	1,8	1,8	2,0	2,0	2,1	2,1	2,2	
Mean MOR in panel shear N/mm ²	$G_{v }$	620			620				
	$G_{v\perp}$	620			620				
Mean MOR in planar shear N/mm ²	$G_{r }$	222	219	217	215	214	213	213	
	$G_{r\perp}$	119	138	150	158	164	168	172	
Strength and stiffness under point load		NPD							
Impact resistance		NPD							
<small>k_{mod} and k_{def} values according to EN 1995-1-1</small>									

Harmonised technical specification EN 13986:2004

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, 8 May, 2015



Pasi Marttila, Product Manager