

DECLARATION OF PERFORMANCE

No. UPM007CPR

1. Identification code of the product-type:
Structural birch plywood, uncoated or coated
2. Type, batch or serial number of any other element allowing identification of the construction product:
Structural birch plywood, uncoated or coated, 4-50 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
For external use as a structural component with coating and edge sealing, EN 636-3
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 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 (min 9 mm)	EN 13986:2004
	E (< 9 mm)	
	F (Multicoated- products)	
Water vapour permeability μ	wet 90, dry 220 (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	0,17	
Bonding quality (acc. to EN 314-2)	Class 3	
Biological durability	Use class 2 (uncoated)	
	Use class 3 (coated and edge sealed)	

9. Declared performance, strength and stiffness for structural use

Nominal thickness		4	6,5	9	12	15	18	21	24	27	30	32	35	40	45	50	
Number of plies		3	5	7	9	11	13	15	17	19	21	23	25	29	32	35	
Essential characteristics		Performance															
Characteristic bending strength N/mm ²	$f_{m }$	65,9	50,9	45,6	42,9	41,3	40,2	39,4	38,9	38,4	38,1	37,8	37,6	37,2	37,0	36,8	
	$f_{m\perp}$	10,6	29,0	32,1	33,2	33,8	34,1	34,3	34,4	34,5	34,6	34,6	34,7	34,7	34,8	34,8	
Characteristic compression strength N/mm ²	$f_{c }$	31,8	29,3	28,3	27,7	27,4	27,2	27,0	26,9	26,8	26,7	26,7	26,6	26,5	25,6	26,4	
	$f_{c\perp}$	20,2	22,8	23,7	24,3	24,6	24,8	25,0	25,1	25,2	25,3	25,3	25,4	25,5	26,4	25,6	
Characteristic tension strength N/mm ²	$f_{t }$	45,8	42,2	40,8	40,0	39,5	39,2	39,0	38,8	38,7	38,5	38,4	38,4	38,3	37,0	38,1	
	$f_{t\perp}$	29,2	32,8	34,2	35,0	35,5	35,8	36,0	36,2	36,3	36,5	36,6	36,6	36,8	38,0	36,9	
Mean MOE in bending N/mm ²	$E_{m }$	16471	12737	11395	10719	10316	10048	9858	9717	9607	9519	9448	9389	9296	9243	9198	
	$E_{m\perp}$	1029	4763	6105	6781	7184	7452	7642	7783	7893	7981	8052	8111	8204	8257	8302	
Mean MOE in compression and tension N/mm ²	$E_{tc }$	10694	9844	9511	9333	9223	9148	9093	9052	9019	8993	8972	8953	8925	8631	8895	
	$E_{tc\perp}$	6806	7656	7989	8167	8277	8352	8407	8448	8481	8507	8528	8547	8575	8869	8605	
Char. panel shear N/mm ²	$f_{v }$	9,5	9,5	9,5							9,5						
	$f_{v\perp}$	9,5	9,5	9,5							9,5						
Char. Planar shear N/mm ²	$f_{r }$	2,8	3,2	2,6							2,6						
	$f_{r\perp}$	NPD	1,8	2,4							2,4						
Mean MOR in panel shear N/mm ²	$G_{v }$	620	620	620							620						
	$G_{v\perp}$	620	620	620							620						
Mean MOR in planar shear N/mm ²	$G_{r }$	170	170	205							205						
	$G_{r\perp}$	NPD	120	160							180						
Strength and stiffness under point load		NPD															
Impact resistance		NPD															

Harmonised technical specification EN 13986:2004

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



Kimmo Rinne, Portfolio Manager