

DECLARATION OF PERFORMANCE

No. UPM008CPR

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, 15-35 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-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 (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	15	18	21	22	24	25	27	28	30	31	35			
Number of plies	11	13	15	16	17	18	19	20	21	22	25			
Essential characteristics	Performance											Harmonised technical specification EN 13986:2004		
Characteristic bending strength N/mm ²	$f_{m }$	28,3	26,6	25,8	25,7	25,5	25,2	25,6	25,6	25,7	25,6		26,2	
	$f_{m\perp}$	48,9	49,6	49,5	49,3	49,1	48,6	48,6	48,2	48,0	47,5		46,8	
Characteristic compression strength N/mm ²	$f_{c }$	17,6	18,9	19,9	18,6	20,6	19,4	21,2	20,1	21,7	20,7		22,4	
	$f_{c\perp}$	34,4	33,1	32,1	33,4	31,4	32,6	30,8	31,9	30,3	31,3		29,6	
Characteristic tension strength	$f_{t }$	25,3	27,3	28,7	26,8	29,7	28,0	30,6	29,0	31,3	29,8		32,3	
	$f_{t\perp}$	49,7	47,7	46,3	48,2	45,3	47,0	44,4	46,0	43,8	45,2		42,7	
Mean MOE in bending N/mm ²	$E_{m }$	7087	6648	6453	6413	6386	6364	6388	6407	6428	6446		6555	
	$E_{m\perp}$	10413	10852	11047	11087	11114	11134	11112	11093	11072	11053		10945	
Mean MOE in compression and tension N/mm ²	$E_{tc }$	5912	6364	6691	6261	6940	6545	7135	6770	7292	6954		7529	
	$E_{tc\perp}$	11588	11136	10809	11239	10560	10955	10365	10730	10208	10546		9971	
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	$f_{r }$	2,6		2,5										
	$f_{r\perp}$	2,3		2,5										
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	$G_{r }$	160	170	180	175									
	$G_{r\perp}$	240	220	210	205									
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



Kimmo Rinne, Portfolio Manager