

DECLARATION OF PERFORMANCE, UPM PLYWOOD

No. **UPM023CPR**

1. Unique identification code of the product-type:
Structural plywood with birch face and spruce and birch mixed core, uncoated or coated, 9–21 mm
2. Intended uses:
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
3. Manufacturer:
WISA®
UPM Plywood Oy
P.O. Box 203
FI-15141 Lahti, Finland
www.wisaplywood.com
5. System of AVCP:
AVCP system 2+
- 6a. Harmonised standard:
EN 13986:2004 + A1:2015

Notified body:

Inspecta Sertifiointi Oy No. 0416 has 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-7109.

7. Declared performance:

Essential characteristics	Performance	Harmonised standard
Reaction to fire	D-s2,d0	EN 13986:2004+A1:2015
	Dfl-s1 (flooring)	
Water vapour permeability μ	wet 80, dry 210 (uncoated)	
Release of formaldehyde	E1	
Content of pentachlorophenol (PCP)	Does not contain	
Airborne sound insulation	NPD	
Sound absorption α	0,10/0,30	
Thermal conductivity λ	0,15	
Bonding quality (acc. to EN 314-2)	Class 3	
Biological durability	Use class 2 (uncoated)	
	Use class 3 (coated and edge sealed)	
Mean density kg/m ³	560	

7. Declared performance

Nominal thickness		9	12	15	18	21		
Number of plies		5	7	8	11	11		
Essential characteristics		Performance						Harmonised standard EN 13986:2004+A1:2015
Characteristic bending strength N/mm ²	$f_{m }$	34,9	41,5	28,3	30,1	26,1		
	$f_{m\perp}$	16,7	25,9	18,5	17,1	18,9		
Characteristic compression strength N/mm ²	$f_{c }$	21,3	21,7	16,9	22,8	19,5		
	$f_{c\perp}$	17,7	18,8	20,3	16,9	18,8		
Characteristic tension strength N/mm ²	$f_{t }$	30,7	13,0	24,4	32,9	28,1		
	$f_{t\perp}$	10,6	27,2	12,2	10,1	11,3		
Mean MOE in bending N/mm ²	$E_{m }$	9314	9675	7050	8016	6968		
	$E_{m\perp}$	5014	5595	6337	5988	6774		
Mean MOE in compression and tension N/mm ²	$E_{t,c }$	6545	8414	5195	7011	6000		
	$E_{t,c\perp}$	7091	5793	8104	6742	7500		
Char. panel shear N/mm ²	$f_{v }$	3,5	3,5	3,5				
	$f_{v\perp}$	3,5	3,5	3,5				
Char. Planar shear N/mm ²	$f_{r }$	1,2	2,7	0,6	1,0			
	$f_{r\perp}$	1,9	0,9	2,4	2,4			
Mean MOR in panel shear N/mm ²	$G_{v }$	350	350	350				
	$G_{v\perp}$	350	350	350				
Mean MOR in planar shear N/mm ²	$G_{r }$	40	285	35				
	$G_{r\perp}$	203	33	200				
Strength and stiffness under point load	NPD							
Impact resistance	NPD							
<small>k_{mod} and k_{def} values according to EN 1995-1-1</small>								

The performance of the product identified above is in conformity with the set of declared performances. This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:

Lahti, Finland, February 1st, 2017



Sirkku Heinonen, Product Manager
UPM Plywood