

DECLARATION OF PERFORMANCE, UPM PLYWOOD No. UPM010CPR

- 1. Unique identification code of the product-type: Structural birch maxi plywood, uncoated or coated, 9–31 mm
- 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-7111.

UPM Plywood Oy

Niemenkatu 16 P.O. Box 203 FI-15141 Lahti Finland Tel. +358 204 15 113 Fax +358 204 15 112 www.wisaplywood.com Domicile Helsinki Business Identity Code 183 9206-5



7. Declared performance:

Essential characteristics	Performance	Harmonised standard			
Point load strength and stiffness	NPD				
Racking resistance	Calculation according to EN 1995-1-1				
Impact resistance	NPD				
Water veneur permechility u	Wet 90, dry 220 (uncoated)				
Water vapour permeability µ	Mean density 680 kg/m ³				
Release of formaldehyde	E1				
Content of pentachlorophenol (PCP)	≤ 5 ppm				
Airborne sound insulation	NPD	EN 13986:2004+A1:2015			
Sound absorption α	0,10/0,30				
Thermal conductivity λ	0,17 W/mK				
Embedment strength	Calculation according to EN 1995-1-1				
Air permeability	NPD				
Bonding quality (acc. to EN 314-2)	Class 3				
	Use class 2 (uncoated)				
Biological durability	Use class 3 (coated and edge sealed)				

Reaction to fire									
End use condition ⁽⁶⁾	Minimum thickness (mm)	Class ⁽⁷⁾ (excluding floorings)	Class ⁽⁸⁾ (floorings)						
Without an air gap behind the wood-based panel $^{(1), (2), (5)}$	9	D-s2, d0	D _{fl} -s1						
With a closed or an open air gap not more than 22 mm behind the wood-based panel $^{\rm (3),(5)}$	9	D-s2, d2	_						
With a closed air gap behind the wood-based panel ^{(4), (5)}	15	D-s2, d1	D _{fl} -s1						
With an open air gap behind the wood-based panel $^{(4), (5)}$	18	D-s2, d0	D _{fl} -s1						

⁽¹⁾ Mounted without an air gap directly against class A1 or A2-s1, d0 products with minimum density 10kg/m3 or at least class D-s2, d2.
⁽²⁾ A substrate of cellulose insulation material of at least class E may be included if mounted directly against the wood-based panel, but not for floorings.
⁽³⁾ Mounted with an air gap behind. The reverse face of the cavity shall be at least class A2-s1, d0 products with minimum density 10 kg/m3.
⁽⁴⁾ Mounted with an air gap behind. The reverse face of the cavity shall be at least class D-s2, d2 products with minimum density 400 kg/m3.
⁽⁵⁾ Veneered, phenol- and melamine-faced panels are included for class excl. floorings.
⁽⁶⁾ A vapour barrier with a thickness up to 0,4 mm and a mass up to 200 g/m2 can be mounted in between the wood-based panel and a substrate if there are no air gaps in between.
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(a) Class as provided for in Table 1 of the Annex to Decision 2000/147/EC.
(b) Class as provided for in Table 2 of the Annex to Decision 2000/147/EC.



Nominal thickne	SS	9	12	15	18	21	22	24	27	30	31	
Number of plies		7	9	11	13	15	16	17	19	21	22	
Essential characteristics				1	Perfor	mance			1			
Characteristic bending	f _{m ∥}	32,1	30,7	30,0	29,5	29,3	29,2	29,1	28,9	28,8	28,7	
	$f_{m_l_}$	32,1	33,2	33,8	34,1	34,3	34,3	34,4	34,5	34,6	34,6	
Characteristic compression strength N/mm ²	f _{c∥}	NPD										
	$f_{c_l_}$		NPD									
Characteristic tension strength N/mm ²	$f_{t\parallel}$		NPD						5			
	$f_{t_l_}$					N	PD					Harmonised standard EN 13986:2004+A1:2015
Mean MOE in bending N/mm²	E _{m∥}	10026	9591	9366	9231	9142	9114	9080	9034	8999	8983	04+⁄2
	E _{m_L}	6105	6781	7184	7452	7642	7713	7783	7893	7981	8020	86:20
Mean MOE in compression	E _{t,c ∥}	NPD							N 139			
and tension N/mm ²	E _{t,c_L}		NPD						ard El			
Char. panel	$f_{v\parallel}$		NPD .						stand			
shear N/mm ²	$f_{v_l_}$		NPD							ised a		
Char. Planar	$f_{r\parallel}$		NPD						rmon			
shear N/mm ²	$f_{r_l_}$		NPD						На			
Mean MOR in panel shear N/mm²	$G_{v\parallel}$					N	PD					
	$G_{v_\!$	NPD										
Mean MOR in planar shear N/mm²	$G_{r\parallel}$					N	PD					
	G_{r_L}		NPD									
Strength and stiffness under point load		NPD										
Impact resistance		NPD										
k _{mod} and k _{def} values according to EN 1995-1-1												

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, November 5th, 2018

Silen almikuukka

Sirkku Salmikuukka, Product Manager UPM Plywood