

DECLARATION OF PERFORMANCE, UPM PLYWOOD No. UPM001CPR

- 1. Unique identification code of the product-type: Structural spruce plywood, uncoated or coated, 9–50 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
- 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 certificate of conformity of the factory production control 0416-CPR-7110 & 0416-CPR-7109.

UPM Plywood Oy

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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 66, dry 190 (uncoated)				
water vapour permeability p	Mean density 460kg/m ³				
Release of formaldehyde	E1				
Content of pentachlorophenol (PCP)	≤ 5 ppm	EN 13986:2004+A1:2015			
Airborne sound insulation	NPD				
Sound absorption α	0,10/0,30				
Thermal conductivity λ	0,13 W/mK				
Embedment strength	Calculation according to EN 1995-1-1				
Air permeability	NPD				
Bonding quality (acc. to EN 314-2)	Class 3				
Pielogical durability	Use class 2 (uncoated)				
	Use class 3 (coated and edge sealed)				

Reaction to fire										
End use condition (6)	Minimum thickness (mm)	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.

^(a) A substrate of cellulose insulation material of a feast class E mode of included in mounted directly against the wood-based panel, but not not in (a) Mounted with an air gap behind. The reverse face of the cavity shall be at least class D-s2, d2 products with minimum density 10 kg/m3.
^(b) 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.
^(c) Veneered, phenol- and melamine-faced panels are included for class excl. floorings.
^(e) 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 the products is the second based panel and a substrate if the products is the second based panel and a substrate if the products is the second based panel and a substrate if the products is the second based panel and a substrate if the products is the second based panel and a substrate if the products is the second based panel and a substrate if the products is the second based panel and a substrate if the products with prod

there are no air gaps in between. ⁽⁷⁾ Class as provided for in Table 1 of the Annex to Decision 2000/147/EC. ⁽⁸⁾ Class as provided for in Table 2 of the Annex to Decision 2000/147/EC.



Nominal thickness		9	12	15	18	21	24	27	30	40	50	
Number of plies		3	5	5	7	7	9	9	11	13	17	
Essential Characteristics		Performance										
Characteristic bending strength N/mm ²	f _{m∥}	28,7	22,8	23,0	20,4	18,9	19,4	19,3	18,7	16,8	15,6	
	$f_{m_{l_{-}}}$	3,8	11,4	11,2	13,0	14,3	13,1	13,8	13,3	14,9	15,9	_
Characteristic compression strength N/mm ²	$f_{c\parallel}$	19,3	17,4	17,5	16,7	16,0	17,0	15,5	17,2	15,5	14,7	
	$f_{c_l_}$	10,7	12,6	12,5	13,3	14,0	13,0	14,5	12,8	14,5	15,3	
Characteristic tension strength N/mm ²	$f_{t\parallel}$	11,6	10,5	10,5	10,0	9,6	10,2	9,3	10,3	9,3	8,8	
	f_{t_L}	6,4	7,5	7,5	8,0	8,4	7,8	8,7	7,7	8,7	9,2	015
Mean MOE in bending N/mm²	E _{m∥}	11461	9123	9201	8170	7547	7751	7702	7479	6723	6227	A1:20
	E _{m_L}	539	2876	2799	3830	4453	4249	4298	4521	5277	5773	004+
Mean MOE in compression and tension N/mm ²	E _{t,c ∥}	7733	6968	7013	6682	6408	6800	6182	6868	6211	5880	986:2
	E_{t,c_L}	4267	5032	4987	5318	5592	5200	5818	5132	5789	6120	N 139
Char. panel shear N/mm²	$f_{v\parallel}$	3,5	3	,5	3,5						ard E	
	$f_{v_l_}$	3,5	3	,5	3,5						tanda	
Char. Planar shear N/mm²	f _{r∥}	1		1 1						sed s		
	f_{r_L}	NPD	0	,6	0,8						moni	
Mean MOR in panel shear N/mm²	G _{v∥}	350	35	50	350						Har	
	$G_{v_\!$	350	35	50	350							
Mean MOR in planar shear N/mm²	Gr∥	45	50 50									
	$G_{r_l_}$	NPD	3	0	40							
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

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Riku Härkönen, Product Manager UPM Plywood