



DECLARATION OF PERFORMANCE, UPM PLYWOOD No. UPM001CPR

Unique identification code of the product-type:
 Structural spruce plywood, uncoated or coated, 9–50 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

System of AVCP: AVCP system 2+

6a. Harmonised standard: EN 13986:2004 + A1:2015

Notified body:

Inspecta Sertificinti 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.

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				
Meter veneur nermeehility u	Wet 66, dry 190 (uncoated)				
Water vapour permeability μ	Mean density 460kg/m ³				
Release of formaldehyde	E1	EN 13986:2004+A1:2015			
Content of pentachlorophenol (PCP)	≤ 5 ppm				
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				
Dislogical durability	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 (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.

(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.



Naminal thickness		9	12	15	18	21	24	27	30	40	50	
Nominal thickness		-		15	7		9					
Number of plies Essential characteristics		3	3 5 5 7 7 9 9 11 13 17 Performance									
Characteristic bending strength N/mm²	<i>f</i> m	28,7	22,8	23,0	20,4	18,9	19,4	19,3	18,7	16,8	15,6	
	f _{m_ _}	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	fc∥	19,3	17,4	17,5	16,7	16,0	17,0	15,5	17,2	15,5	14,7	
	fc_ _	10,7	12,6	12,5	13,3	14,0	13,0	14,5	12,8	14,5	15,3	
Characteristic tension strength	<i>f</i> t	11,6	10,5	10,5	10,0	9,6	10,2	9,3	10,3	9,3	8,8	
N/mm²	<i>f</i> t_ _	6,4	7,5	7,5	8,0	8,4	7,8	8,7	7,7	8,7	9,2	2015
Mean MOE in bending N/mm ²	Em	10050	9123	9201	8170	7547	7751	7702	7479	6723	6227	4+A1:
	E _{m_ _}	539	2876	2799	3830	4453	4249	4298	4521	5277	5773	6:200
Mean MOE in compression and	Et,c	7733	6968	7013	6682	6408	6800	6182	6868	6211	5880	1398
tension N/mm²	<i>E</i> t,c_ _	4267	5032	4987	5318	5592	5200	5818	5132	5789	6120	ard EN
Char. panel shear	f _{∨∥}	3,5	3,5		3,5						standa	
N/mm²	f _{v_L}	3,5	3,5		3,5					nised		
Char. Planar shear	<i>f</i> r	1	1		1						Harmonised standard EN 13986:2004+A1:2015	
N/mm²	<i>f</i> r_ _	NPD	0,	6	0,8							
Mean MOR in panel shear N/mm²	G _v	350	350		350							
	G _{V_l_}	350	35	0	350							
shear N/mm²	Gr ∥	45	50		50							
	Gr_ _	NPD	30	0	40							
Strength and stiffness under point load		NPD										
Impact resistance	NPD											
			k _{mod} and k	_{def} values a	ccording	to EN 19	95-1-1					

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, January 1st, 2021

Riku Härkönen, Product Manager UPM Plywood