



DECLARATION OF PERFORMANCE, UPM PLYWOOD No. UPM004CPR

- Unique identification code of the product-type:
 Structural spruce plywood, uncoated, 15–19 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

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 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.



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 vapour permeability µ	Wet 66, dry 190 (uncoated)				
	Mean density 450 kg/m ³				
Release of formaldehyde	E1				
Content of pentachlorophenol (PCP)	≤ 5 ppm	EN 42000-2004 - A4-2045			
Airborne sound insulation	NPD	EN 13986:2004+A1:2015			
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				
Biological durability	Use class 2				

Reaction to fire									
End use condition (6)		Class ⁽⁷⁾ (excluding floorings)	Class (8) (floorings)						
Without an air gap behind the wood-based panel (1), (2), (5)	15	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)	15	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.



Nominal thickness	Nominal thickness		18	15	19	
Number of plies		6	7	7	7	
Essential characteristics		Performance				
Characteristic bending strength N/mm²	f _m	28,9	27,7	36,7	36,1	
	f _{m_ _}	3,3	5,3	7,5	8,4	
Characteristic	f _c	20,0	21,4	20,5	20,1	+A1:2015
compression strength N/mm²	fc_ _	10,0	8,6	9,5	9,9	
Characteristic tension strength N/mm²	f _t	12,0	12,9	12,3	12,1	
	ft_ _	6,0	5,1	5,7	5,9	
Mean MOE in bending N/mm²	E _m	11556	11090	11006	10831	2004
	E _{m_l_}	444	910	994	1169	3986:
Mean MOE in compression and tension N/mm²	E _{t,c}	8000	8571	8195	8041	EN 1
	E _{t,c_}	4000	3429	3805	3959	idard
Char. panel shear N/mm²	f _v	3,5				Harmonised standard EN 13986:2004+A1:2015
	f _{v_l_}	3,5				
Char. Planar shear	f _r	0,9			Harmo	
N/mm²	f _{r_ _}	NPD 0,4				
Mean MOR in panel shear N/mm²	$G_{v }$	350				
	G _{v_l_}	350				
Mean MOR in planar shear N/mm²	G _r	47	60 53			
	G _{r_l_}	NPD 20 24				
Strength and stiffness under point load	NPD					
Impact resistance	NPD					
	k _{mod} and	l k _{def} values acc	ording to EN 19	995-1-1		

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

Riku Härkönen, Product Manager UPM Plywood