

DECLARATION OF CONFORMITY, UPM PLYWOOD

No. UPM001CPR

1. 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
4. Authorized presentative
UPM Wood Material (UK) Limited
Station House Stamford New Road,
Altrincham
WA14 1EP Cheshire
United Kingdom
5. System of AVCP:
AVCP system 2+
- 6a. Harmonised standard:
EN 13986:2004 + A1:2015

Notified body:

CATG Ltd No. 1245 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 1245-CPR-5003.

7. Declared performance:

Essential characteristics	Performance	Harmonised standard
Point load strength and stiffness	NPD	EN 13986:2004+A1:2015
Racking resistance	Calculation according to EN 1995-1-1	
Impact resistance	NPD	
Water vapour permeability μ	Wet 66, dry 190 (uncoated) Mean density 460kg/m ³	
Release of formaldehyde	E1	
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	
Biological durability	Use class 2 (uncoated)	
	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 _{fi} -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 _{fi} -s1
With an open air gap behind the wood-based panel ^{(4), (5)}	18	D-s2, d0	D _{fi} -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		9	12	15	18	21	24	27	30	40	50	Harmonised standard EN 13986:2004+A1:2015
Number of plies		3	5	5	7	7	9	9	11	13	17	
Essential characteristics		Performance										
Characteristic bending strength N/mm ²	$f_{m \parallel}$	28,7	22,8	23,0	20,4	18,9	19,4	19,3	18,7	16,8	15,6	
	$f_{m \perp}$	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	
	$f_{c \perp}$	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	
	$f_{t \perp}$	6,4	7,5	7,5	8,0	8,4	7,8	8,7	7,7	8,7	9,2	
Mean MOE in bending N/mm ²	$E_{m \parallel}$	10050	9123	9201	8170	7547	7751	7702	7479	6723	6227	
	$E_{m \perp}$	539	2876	2799	3830	4453	4249	4298	4521	5277	5773	
Mean MOE in compression and tension N/mm ²	$E_{t,c \parallel}$	7733	6968	7013	6682	6408	6800	6182	6868	6211	5880	
	$E_{t,c \perp}$	4267	5032	4987	5318	5592	5200	5818	5132	5789	6120	
Char. panel shear N/mm ²	$f_{v \parallel}$	3,5	3,5					3,5				
	$f_{v \perp}$	3,5	3,5					3,5				
Char. Planar shear N/mm ²	$f_r \parallel$	1	1					1				
	$f_r \perp$	NPD	0,6					0,8				
Mean MOR in panel shear N/mm ²	$G_{v \parallel}$	350	350					350				
	$G_{v \perp}$	350	350					350				
Mean MOR in planar shear N/mm ²	$G_r \parallel$	45	50					50				
	$G_r \perp$	NPD	30					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, January 10th, 2022



Riku Härkönen, Product Manager
UPM Plywood