

DECLARATION OF CONFORMITY, UPM PLYWOOD

No. UPM021CPR

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
Rutherford House, First Floor, Warrington Road, Birchwood
Warrington, Cheshire
WA3 6ZH
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 xxx-xxxx-xxx.

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 460 kg/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	

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)}	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		15 unsanded	18	18 unsanded	19	21	22
Number of plies		5	7	7	6	8	7
Essential characteristics		Performance					
Characteristic bending strength N/mm²	f _m	23,8	27,5	21,3	23,4	20,8	20,6
	f _m ⊥	10,4	5,7	12,1	10,2	12,9	12,8
Characteristic compression strength N/mm²	f _c	18,0	21,1	17,1	21,8	16,0	16,8
	f _c ⊥	12,0	8,9	12,9	8,2	14,0	13,2
Characteristic tension strength N/mm²	f _t	10,8	12,7	10,3	13,1	9,6	10,1
	f _t ⊥	7,2	5,3	7,7	4,9	8,4	7,9
Mean MOE in bending N/mm²	E _m	9504	10994	8536	9359	8319	8243
	E _m ⊥	2496	1006	3464	2641	3681	3757
Mean MOE in compression and tension N/mm²	E _{t,c}	7200	8455	6857	8733	6408	6716
	E _{t,c} ⊥	4800	3545	5143	3267	5592	5284
Char. panel shear N/mm²	f _v	3,5	3,5	3,5	3,5	3,5	3,5
	f _v ⊥	3,5	3,5	3,5	3,5	3,5	3,5
Char. Planar shear N/mm²	f _r	1,1	1,0	1,0	1,2	1,0	1,0
	f _r ⊥	0,6	0,4	0,8	0,5	0,8	0,8
Mean MOR in panel shear N/mm²	G _v	350	350	350	350	350	350
	G _v ⊥	350	350	350	350	350	350
Mean MOR in planar shear N/mm²	G _r	51	59	52	89	48	52
	G _r ⊥	28	21	36	22	41	37
Strength and stiffness under point load	NPD						
Impact resistance	NPD						
k _{mod} and k _{def} values according to EN 1995-1-1							

Harmonised standard EN 13986:2004+A1:2015

Harmonised standard EN 13986:2004+A1:2015

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, 2023

Riku Härkönen, Product Manager
UPM Plywood