

**DECLARATION OF CONFORMITY, UPM PLYWOOD**

**No. UPM002CPR**

1. Unique identification code of the product-type:  
Structural spruce plywood, uncoated or coated, 5–50 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](http://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 $\mu$	Wet 70, dry 200 (uncoated)	
	Mean density 500 kg/m <sup>3</sup>	
Release of formaldehyde	E1	
Content of pentachlorophenol (PCP)	≤ 5 ppm	
Airborne sound insulation	NPD	
Sound absorption $\alpha$	0,10/0,30	
Thermal conductivity $\lambda$	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 <sup>(6)</sup>	Minimum thickness (mm)	Class <sup>(7)</sup> (excluding floorings)	Class <sup>(8)</sup> (floorings)
Without an air gap behind the wood-based panel <sup>(1), (2), (5)</sup>	9	D-s2, d0	D <sub>fi</sub> -s1
With a closed or an open air gap not more than 22 mm behind the wood-based panel <sup>(3), (5)</sup>	9	D-s2, d2	-
With a closed air gap behind the wood-based panel <sup>(4), (5)</sup>	15	D-s2, d1	D <sub>fi</sub> -s1
With an open air gap behind the wood-based panel <sup>(4), (5)</sup>	18	D-s2, d0	D <sub>fi</sub> -s1
Any <sup>(5)</sup>	5	E	E <sub>fi</sub>

<sup>(1)</sup> Mounted without an air gap directly against class A1 or A2-s1, d0 products with minimum density 10kg/m<sup>3</sup> or at least class D-s2, d2.

<sup>(2)</sup> 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.

<sup>(3)</sup> 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/m<sup>3</sup>.

<sup>(4)</sup> 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/m<sup>3</sup>.

<sup>(5)</sup> Veneered, phenol- and melamine-faced panels are included for class excl. floorings.

<sup>(6)</sup> A vapour barrier with a thickness up to 0,4 mm and a mass up to 200 g/m<sup>2</sup> can be mounted in between the wood-based panel and a substrate if there are no air gaps in between.

<sup>(7)</sup> Class as provided for in Table 1 of the Annex to Decision 2000/147/EC.

<sup>(8)</sup> Class as provided for in Table 2 of the Annex to Decision 2000/147/EC.

Nominal thickness	5	6,5	9	12	15	18	19	21	24	27	30	40	50	
Number of plies	3	3	5	7	7	9	9	11	11	13	15	21	21	
Essential characteristics	Performance													
Characteristic bending strength N/mm <sup>2</sup>	f <sub>m  </sub>	28,5	29,2	22,5	20,6	18,3	18,7	19,1	18,1	18,6	17,7	17,2	16,6	14,8
	f <sub>m⊥</sub>	4,1	2,8	11,8	13,3	15,1	13,9	13,2	14,1	13,3	14,1	14,4	14,6	16,3
Characteristic compression strength N/mm <sup>2</sup>	f <sub>c  </sub>	18,9	20,9	17,2	15,8	14,6	16,7	17,5	16,0	17,4	16,5	16,3	15,5	14,5
	f <sub>c⊥</sub>	11,1	9,1	12,8	14,8	15,4	13,3	12,5	14,0	12,6	13,5	13,7	14,5	15,5
Characteristic tension strength N/mm <sup>2</sup>	f <sub>t  </sub>	11,3	12,5	10,3	9,5	8,8	10,0	10,5	9,6	10,4	9,9	9,8	9,3	8,7
	f <sub>t⊥</sub>	6,7	5,5	7,7	8,9	9,2	8,0	7,5	8,4	7,6	8,1	8,2	8,7	9,3
Mean MOE in bending N/mm <sup>2</sup>	E <sub>m  </sub>	11390	11666	8995	8231	7308	7492	7641	7249	7444	7075	6873	6629	5905
	E <sub>m⊥</sub>	610	334	3005	3826	4692	4508	4359	4751	4556	4925	5127	5371	6095
Mean MOE in compression and tension N/mm <sup>2</sup>	E <sub>t,c  </sub>	7556	8364	6894	6328	5842	6667	7000	6393	6958	6586	6510	6203	5810
	E <sub>t,c⊥</sub>	4444	3636	5106	5902	6158	5333	5000	5607	5042	5414	5490	5797	6190
Char. panel shear N/mm <sup>2</sup>	f <sub>v  </sub>	3,5		3,5										
	f <sub>v⊥</sub>	3,5		3,5										
Char. Planar shear N/mm <sup>2</sup>	f <sub>r  </sub>	0,9		1										
	f <sub>r⊥</sub>	NPD		0,8										
Mean MOR in panel shear N/mm <sup>2</sup>	G <sub>v  </sub>	350		350										
	G <sub>v⊥</sub>	350		350										
Mean MOR in planar shear N/mm <sup>2</sup>	G <sub>r  </sub>	40		50										
	G <sub>r⊥</sub>	NPD		40										
Strength and stiffness under point load	NPD													
Impact resistance	NPD													
k <sub>mod</sub> and k <sub>def</sub> values according to EN 1995-1-1														

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 10th 2022



Riku Härkönen, Product Manager  
UPM Plywood