



DECLARATION OF CONFORMITY, UPM PLYWOOD No. UPM027CPR

1. Unique identification code of the product-type: Structural spruce plywood, 12–30 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

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 1

6a. Harmonised standard:

EN 13986:2004 + A1:2015

EN 13501-1+A1

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-5003A.





7. Declared performance:

Essential characteristics	Performance	Harmonized standard		
Point load strength and stiffness	See attachment 1.			
Racking resistance	Calculation according to EN 1995-1-1			
Impact resistance	See attachment 1.			
Water vapour permeability μ	Wet 66, dry 190			
	Mean density 460 kg/m³			
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⁾	Minimum thickness (mm)	Class ⁽⁷⁾ (excluding floorings)	Class ⁽⁸⁾ (floorings)		
Any	18	B-s1, d0	B _{fl} -s1		

⁽⁶⁾ A vapour barrier with a thickness up to 0,4 mm and a mass up to 200 g/m2 can be mounted between the woodbased panel and 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		18	22	
Number of plies		7	9	
Essential characteristics		Performance		
Characteristic bending strength N/mm²	f _m	20,2	19,1	
	f _{m_ _}	12,7	13,6	
Characteristic compression strength N/mm²	fc∥	17,1	16,3	
	$f_{c_ _}$	12,9	13,7	2
Characteristic tension strength N/mm²	f _t	10,3	9,8	1:207
	f _{t_ _}	7,7	8,2	4+A
Mean MOE in bending N/mm²	E _{m II}	8131	7658	3:200
Mean MOE III bending N/IIIII	E _{m_L}	3866	4342	3986
Mean MOE in compression and tension N/mm²	E _{t,c}	6857	6526	EN 1
	E _{t,c_ _}	5143	5474	dard
0 1 1 1 2	f _v	3,5		Harmonised standard EN 13986:2004+A1:2015
Char. panel shear N/mm²	f _{v_ _}	3,5		
Char. Planar shear N/mm²	f _r	1,0		
Char. Planar shear N/mm²	f _{r_ _}	0,8		
Mean MOR in panel shear	G _{v II}	350		
N/mm²	$G_{v_l_}$	350		
Mean MOR in planar shear N/mm²	G _r	54	52	
	G _{r_l_}	36	42	
Strength and stiffness under point load	Appendix 1			
Impact resistance	Appendix 1			
	k _{mod} and k _{def} value	es 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





CONCENTRATED POINT LOAD OF WISA®-SPRUCEFLOORFR PLYWOOD

in accordance with Eurocode 5

The characteristic values are for a static concentrated load and mean stiffness according to EN 12871 for a structural floor and roof decking on joists.

The tested values are without safety factor calculations.

The concentrated load is located at the tongued and grooved joint which is the most vulnerable point.

Table: Static point load (50 x 50 mm²) values and impact resistance for WISA-Sprucefloor^{FR}.

Point load			Soft body impact			
			Characteristic strength		Mean stiffness	
Nominal thickness mm	Veneers/ layers	Span mm	Serviceability F _{ser} ' k	Ultimate F _{ult} ' k	Rm kN/mm	Impact resistance
			kN	kN		
Floor decking						
18	7/7	400	3.4	5.0	0.68	Fulfilled
18	7/7	600	3.3	3.9	0.34	Fulfilled
22	9/9	400	4.7	7.2	0.98	Fulfilled
22	9/9	600	4.4	6.2	0.55	Fulfilled

Detailed technical properties: Please see DoP (Declaration of Performance) UPM027CPR on www.wisaplywood.com/dop.