



DECLARATION OF PERFORMANCE, UPM PLYWOOD

No. UPM006CPR

1. Unique identification code of the product-type:
Structural spruce plywood, uncoated, 18–22 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
Askonkatu 9 C
15100 Lahti, Finland
www.wisaplywood.com
5. System of AVCP:
AVCP system 2+
- 6a. Harmonised standard:
EN 13986:2004 + A1:2015

Notified body:

KIWA 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	Appendix 1.	EN 13986:2004+A1:2015
Racking resistance	Calculation according to EN 1995-1-1 $\geq 18\text{mm } \rho_k = 420 \text{ kg/m}^3$	
Impact resistance	Appendix 1.	
Water vapour permeability μ	Wet 66, dry 190 (uncoated)	
	Mean density 460 kg/m^3	
Release of formaldehyde	E1 And Compliant with Commission Regulation (EU) 2023/1464	
Content of pentachlorophenol (PCP)	$\leq 5 \text{ ppm}$	
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, EN 13986:2004+A1:2015			
End use condition ⁽⁶⁾	Minimum thickness (mm)	Class (excluding floorings)	Class (floorings)
Any ⁽⁵⁾	18	D-s2, d0	D _{fl} -s1

⁽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.

3(4)

Nominal thickness		18	22
Number of plies		7	9
Essential characteristics		Performance	
Characteristic bending strength N/mm ²	$f_{m\parallel}$	20,2	19,1
	$f_{m\perp}$	12,7	13,6
Characteristic compression strength N/mm ²	$f_{c\parallel}$	17,1	16,3
	$f_{c\perp}$	12,9	13,7
Characteristic tension strength N/mm ²	$f_{t\parallel}$	10,3	9,8
	$f_{t\perp}$	7,7	8,2
Mean MOE in bending N/mm ²	$E_{m\parallel}$	8131	7658
	$E_{m\perp}$	3866	4342
Mean MOE in compression and tension N/mm ²	$E_{t,c\parallel}$	6857	6526
	$E_{t,c\perp}$	5143	5474
Char. panel shear N/mm ²	$f_{v\parallel}$	3,5	
	$f_{v\perp}$	3,5	
Char. Planar shear N/mm ²	$f_{r\parallel}$	1,0	
	$f_{r\perp}$	0,8	
Mean MOR in panel shear N/mm ²	$G_{v\parallel}$	350	
	$G_{v\perp}$	350	
Mean MOR in planar shear N/mm ²	$G_{r\parallel}$	54	52
	$G_{r\perp}$	36	42
Strength and stiffness under point load	Appendix 1		
Impact resistance	Appendix 1		
k_{mod} and k_{def} 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 1st, 2026

Riku Härkönen, Product Manager
UPM Plywood

Appendix 1.

CONCENTRATED POINT LOAD OF WISA®-SPRUCEFLOOR 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.

			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) UPM006CPR on www.wisaplywood.com/dop.