

DECLARATION OF PERFORMANCE, UPM PLYWOOD No. UPM006CPR

- 1. Unique identification code of the product-type: Structural spruce plywood, uncoated, 18–22 mm
- 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
- 5. System of AVCP: AVCP system 2+
- 6a. Harmonised standard: EN 13986:2004 + A1:2015

Notified body:

Inspecta 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.

UPM Plywood Oy

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7. Declared performance:

Essential characteristics	Performance	Harmonised standard		
Point load strength and stiffness	Appendix 1.			
Racking resistance	Calculation according to EN 1995-1-1			
Impact resistance	NPD	-		
	Wet 66, dry 190 (uncoated)			
Water vapour permeability µ	Mean density 460 kg/m ³			
Release of formaldehyde	E1			
Content of pentachlorophenol (PCP)	≤ 5 ppm	EN 13986:2004+A1:2015		
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)		
Any ⁽⁵⁾	18	D-s2, d0	D _{fl} -s1		

⁽⁶⁾ 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		18	22	_	
Number of plies		7	9		
Essential characteristics		Performance			
Characteristic	f _m	20,2	19,1		
bending strength N/mm ²	f _{m_ _}	12,7	13,6		
Characteristic	f _{c ∥}	17,1	16,3		
compression strength N/mm ²	fc_ _	12,9	13,7		
Characteristic tension strength	ft	10,3	9,8	015	
N/mm ²	ft_ _	7,7	8,2	-A1:2	
Mean MOE in	Em II	8131	7658	2004-	
bending N/mm ²	Em_L	3866	4342	Harmonised standard EN 13986:2004+A1:2015	
Mean MOE in compression and	Et,c	6857	6526	EN 13	
tension N/mm ²	E _{t,c_l_}	5143	5474	lard E	
Char. panel shear	f _v	3,5		stanc	
N/mm²	$f_{v_l_}$	3,5		ised	
Char. Planar shear	fr∥	1,0		armor	
N/mm²	fr_l_	0,8		Ĥ	
Mean MOR in panel	$G_{v\parallel}$	350			
shear N/mm²	G _{v_l_}	350			
Mean MOR in planar shear N/mm²	Gr	54	52		
	Gr_L	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					

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, November 5th, 2018

Afor fla

Riku Härkönen, Product Manager UPM Plywood



Appendix 1

DoP UPM006CPR

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*.

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