

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
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.

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	
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)
Any ⁽⁵⁾	18	D-s2, d0	D _f -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.

⁽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	Harmonised standard EN 13986:2004+A1:2015
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				

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



Riku Härkönen, Product Manager
UPM Plywood