

DECLARATION OF PERFORMANCE, UPM PLYWOOD

No. UPM024CPR

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
5. System of AVCP:
AVCP system 1
- 6a. Harmonized standard:
EN 13986:2004 + A1:2015
EN 13501-1+A1

Notified body:
Inspecta Sertifiointi Oy No. 0416
Certificate of constancy of performance 0416-CPR-9606.

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 μ	Wet 66, dry 190	
	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⁾	12	B-s1, d0	B _{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.

⁽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		12	15	18	21	24	27	30
Number of plies		5	5	7	7	9	9	11
Essential characteristics		Performance						
Characteristic bending strength N/mm ²	$f_{m\parallel}$	22,8	23	20,4	18,9	19,4	19,3	18,7
	$f_{m\perp}$	11,4	11,2	13	14,3	13,1	13,8	13,3
Characteristic compression strength N/mm ²	$f_{c\parallel}$	17,4	17,5	16,7	16,0	17,0	15,5	17,2
	$f_{c\perp}$	12,6	12,5	13,3	14,0	13,0	14,5	12,8
Characteristic tension strength N/mm ²	$f_{t\parallel}$	10,5	10,5	10	9,6	10,2	9,3	10,3
	$f_{t\perp}$	7,5	7,5	8	8,4	7,8	8,7	7,7
Mean MOE in bending N/mm ²	$E_{m\parallel}$	9123	9201	8170	7547	7751	7702	7479
	$E_{m\perp}$	2876	2799	3830	4453	4249	4298	4521
Mean MOE in compression and tension N/mm ²	$E_{t,c\parallel}$	6968	7013	6682	6408	6800	6182	6868
	$E_{t,c\perp}$	5032	4987	5318	5592	5200	5818	5132
Char. panel shear N/mm ²	$f_{v\parallel}$	3,5		3,5				
	$f_{v\perp}$	3,5		3,5				
Mean MOR in panel shear N/mm ²	$f_{r\parallel}$	1		1				
	$f_{r\perp}$	0,6		0,8				
Mean MOR in panel shear N/mm ²	$G_{v\parallel}$	350		350				
	$G_{v\perp}$	350		350				
Mean MOR in planar shear N/mm ²	$G_{r\parallel}$	50		50				
	$G_{r\perp}$	30		30				
Strength and stiffness under point load	NPD							
Impact resistance	NPD							
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, May 28th, 2019



Riku Härkönen, Product Manager
UPM Plywood