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

Notified body:
Inspecta Sertifiointi Oy No. 0416
Certificate of constancy of performance 0416-CPR-9606 and 0416-CPR-11970.

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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	Harmoniserad standard EN 13986:2004+A1:2015
Number of plies		5	5	7	7	9	9	11	
Essential characteristics			Performance						
Characteristic bending strength N/mm²	$f_{m\,\|\|}$	22,8	23	20,4	18,9	19,4	19,3	18,7	
	$f_{m\_\|\_}$	11,4	11,2	13	14,3	13,1	13,8	13,3	
Characteristic compression strength N/mm²	$f_{c\,\|\|}$	17,4	17,5	16,7	16,0	17,0	15,5	17,2	
	$f_{c\_\|\_}$	12,6	12,5	13,3	14,0	13,0	14,5	12,8	
Characteristic tension strength N/mm²	$f_{t\,\|\|}$	10,5	10,5	10	9,6	10,2	9,3	10,3	
	$f_{t\_\|\_}$	7,5	7,5	8	8,4	7,8	8,7	7,7	
Mean MOE in bending N/mm²	$E_{m\,\|\|}$	9123	9201	8170	7547	7751	7702	7479	
	$E_{m\_\|\_}$	2876	2799	3830	4453	4249	4298	4521	
Mean MOE in compression and tension N/mm²	$E_{t,c\,\|\|}$	6968	7013	6682	6408	6800	6182	6868	
	$E_{t,c\_\|\_}$	5032	4987	5318	5592	5200	5818	5132	
Char. panel shear N/mm²	$f_{v\,\|\|}$	3,5		3,5					
	$f_{v\_\|\_}$	3,5		3,5					
Mean MOR in panel shear N/mm²	$f_{r\,\|\|}$	1		1					
	$f_{r\_\|\_}$	0,6		0,8					
Mean MOR in panel shear N/mm²	$G_{v\,\|\|}$	350		350					
	$G_{v\_\|\_}$	350		350					
Mean MOR in planar shear N/mm²	$G_{r\,\|\|}$	50		50					
	$G_{r\_\|\_}$	30		30					
Strength and stiffness under point load	NPD								
Impact resistance	NPD								
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, June 19, 2023

Riku Härkönen, Product Manager
UPM Plywood