

DECLARATION OF PERFORMANCE, UPM PLYWOOD
No. UPM025CPR

1. Unique identification code of the product-type:
Structural birch plywood, Multi-coated, 4–30 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
For external use as a structural component with coating and edge sealing, EN 636-3
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 Sertifointi 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 certificates of conformity of the factory production control 0416-CPR-7108 (Joensuu), 0416-CPR-7110 (Pellos), 0416-CPR-7111 (Savonlinna), 0416-CPR-7112 (Chudovo), 0416-CPR-7113 (Otepää).

7. Declared performance:

Essential characteristics	Performance		Harmonised standard
Reaction to fire	End use condition: any	F	EN 13986:2004+A1:2015
Point load strength and stiffness	NPD		
Racking resistance	Calculation according to EN 1995-1-1		
Impact resistance	NPD		
Water vapour permeability μ	NPD		
	Mean density 680 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	0,17 W/mK		

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Domicile Helsinki

Business Identity Code

183 9206-5

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 3

Nominal thickness	4	6,5	9	12	15	18	21	24	27	30	Harmonised standard EN 13986:2004+A1:2015	
Number of plies	3	5	7	9	11	13	15	17	19	21		
Essential characteristics	Performance											
Characteristic bending strength N/mm ²	f _m	65,9	50,9	45,6	42,9	41,3	40,2	39,4	38,9	38,4		38,1
	f _{m⊥}	10,6	29	32,1	33,2	33,8	34,1	34,3	34,4	34,5		34,6
Characteristic compression strength N/mm ²	f _c	31,8	29,3	28,3	27,7	27,4	27,2	27	26,9	26,8		26,7
	f _{c⊥}	20,2	22,8	23,7	24,3	24,6	24,8	25	25,1	25,2		25,3
Characteristic tension strength N/mm ²	f _t	45,8	42,2	40,8	40	39,5	39,2	39	38,8	38,7		38,5
	f _{t⊥}	29,2	32,8	34,2	35	35,5	35,8	36	36,2	36,3		36,5
Mean MOE in bending N/mm ²	E _m	16471	12737	11395	10719	10316	10048	9858	9717	9607		9519
	E _{m⊥}	1029	4763	6105	6781	7184	7452	7642	7783	7893		7981
Mean MOE in compression and tension N/mm ²	E _{t,c}	10694	9844	9511	9333	9223	9148	9093	9052	9019		8993
	E _{t,c⊥}	6806	7656	7989	8167	8277	8352	8407	8448	8481		8507
Char. panel shear N/mm ²	f _v	9,5	9,5	9,5	9,5							
	f _{v⊥}	9,5	9,5	9,5	9,5							
Char. Planar shear N/mm ²	f _r	2,8	3,2	2,6	2,6							
	f _{r⊥}	NPD	1,8	2,4	2,4							
Mean MOR in panel shear N/mm ²	G _v	620	620	620	620							
	G _{v⊥}	620	620	620	620							
Mean MOR in planar shear N/mm ²	G _r	170	170	205	205							
	G _{r⊥}	NPD	120	160	180							
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, November 27th, 2020



Sirkku Salmikuukka, Product Manager
UPM Plywood