

## 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-7109 (Jyväskylä), 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 $\mu$	NPD		
	Mean density 680 kg/m <sup>3</sup>		
Release of formaldehyde	E1		
Content of pentachlorophenol (PCP)	≤ 5 ppm		
Airborne sound insulation	NPD		
Sound absorption $\alpha$	0,10/0,30		
Thermal conductivity $\lambda$	0,17 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 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 <sup>2</sup>	f <sub>m  </sub>	65,9	50,9	45,6	42,9	41,3	40,2	39,4	38,9	38,4	38,1	
	f <sub>m⊥</sub>	10,6	29	32,1	33,2	33,8	34,1	34,3	34,4	34,5	34,6	
Characteristic compression strength N/mm <sup>2</sup>	f <sub>c  </sub>	31,8	29,3	28,3	27,7	27,4	27,2	27	26,9	26,8	26,7	
	f <sub>c⊥</sub>	20,2	22,8	23,7	24,3	24,6	24,8	25	25,1	25,2	25,3	
Characteristic tension strength N/mm <sup>2</sup>	f <sub>t  </sub>	45,8	42,2	40,8	40	39,5	39,2	39	38,8	38,7	38,5	
	f <sub>t⊥</sub>	29,2	32,8	34,2	35	35,5	35,8	36	36,2	36,3	36,5	
Mean MOE in bending N/mm <sup>2</sup>	E <sub>m  </sub>	16471	12737	11395	10719	10316	10048	9858	9717	9607	9519	
	E <sub>m⊥</sub>	1029	4763	6105	6781	7184	7452	7642	7783	7893	7981	
Mean MOE in compression and tension N/mm <sup>2</sup>	E <sub>t,c  </sub>	10694	9844	9511	9333	9223	9148	9093	9052	9019	8993	
	E <sub>t,c⊥</sub>	6806	7656	7989	8167	8277	8352	8407	8448	8481	8507	
Char. panel shear N/mm <sup>2</sup>	f <sub>v  </sub>	9,5	9,5	9,5	9,5							
	f <sub>v⊥</sub>	9,5	9,5	9,5	9,5							
Char. Planar shear N/mm <sup>2</sup>	f <sub>r  </sub>	2,8	3,2	2,6	2,6							
	f <sub>r⊥</sub>	NPD	1,8	2,4	2,4							
Mean MOR in panel shear N/mm <sup>2</sup>	G <sub>v  </sub>	620	620	620	620							
	G <sub>v⊥</sub>	620	620	620	620							
Mean MOR in planar shear N/mm <sup>2</sup>	G <sub>r  </sub>	170	170	205	205							
	G <sub>r⊥</sub>	NPD	120	160	180							
Strength and stiffness under point load	NPD											
Impact resistance	NPD											
k <sub>mod</sub> and k <sub>def</sub> 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



Sirkku Salmikuukka, Product Manager  
UPM Plywood