DECLARATION OF CONFORMITY, UPM PLYWOOD
No. UPM023CPR

1. Unique identification code of the product-type:
Structural plywood with birch face and spruce and birch mixed core, uncoated or coated, 9–21 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

4. Authorized presentative
UPM Wood Material (UK) Limited
Station House Stamford New Road
Altrincham
WA14 1EP Cheshire
United Kingdom

5. System of AVCP:
AVCP system 2+

6a. Harmonised standard:
EN 13986:2004 + A1:2015

Notified body:
CATG Ltd. No. 1245 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 1245-CPR-5001 (Savonlinna), 1245-CPR-5002 (Joensuu), 1245-CPR-5003 (Pellos), 1245-CPR-5004 (Chudovo), 1245-CPR-5005 (Otepää).

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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 80, dry 210 (uncoated)	
	Mean density 560 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	0,15 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 (uncoated)	
	Use class 3 (coated and edge sealed)	

Reaction to fire			
End use condition (6)	Minimum thickness (mm)	Class (7) (excluding floorings)	Class (8) (floorings)
Without an air gap behind the wood-based panel (1), (2), (5)	9	D-s2, d0	D_{fl}-s1
With a closed or an open air gap not more than 22 mm behind the wood-based panel (3), (5)	9	D-s2, d2	–
With a closed air gap behind the wood-based panel (4), (5)	15	D-s2, d1	D_{fl}-s1
With an open air gap behind the wood-based panel (4), (5)	18	D-s2, d0	D_{fl}-s1

(1) Mounted without an air gap directly against class A1 or A2-s1, d0 products with minimum density 10kg/m3 or at least class D-s2, d2.
(2) A substrate of cellulose insulation material of at least class E may be included if mounted directly against the wood-based panel, but not for floorings.
(3) Mounted with an air gap behind. The reverse face of the cavity shall be at least class A2-s1, d0 products with minimum density 10 kg/m3.
(4) Mounted with an air gap behind. The reverse face of the cavity shall be at least class D-s2, d2 products with minimum density 400 kg/m3.
(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		9	12	15	18	21	Harmonised standard EN 13986:2004+A1:2015
Number of plies		5	7	8	11	11	
Essential characteristics		Performance					
Characteristic bending strength N/mm²	$f_{m\,\|\|}$	34,9	41,5	28,3	30,1	26,1	
	$f_{m\_\|\_}$	16,7	25,9	18,5	17,1	18,9	
Characteristic compression strength N/mm²	$f_{c\,\|\|}$	21,3	21,7	16,9	22,8	19,5	
	$f_{c\_\|\_}$	17,7	18,8	20,3	16,9	18,8	
Characteristic tension strength N/mm²	$f_{t\,\|\|}$	30,7	13,0	24,4	32,9	28,1	
	$f_{t\_\|\_}$	10,6	27,2	12,2	10,1	11,3	
Mean MOE in bending N/mm²	$E_{m\,\|\|}$	9314	9675	7050	8016	6968	
	$E_{m\_\|\_}$	5014	5595	6337	5988	6774	
Mean MOE in compression and tension N/mm²	$E_{t,c\,\|\|}$	6545	8414	5195	7011	6000	
	$E_{t,c\_\|\_}$	7091	5793	8104	6742	7500	
Char. panel shear N/mm²	$f_{v\,\|\|}$	3,5	3,5	3,5			
	$f_{v\_\|\_}$	3,5	3,5	3,5			
Char. Planar shear N/mm²	$f_{r\,\|\|}$	1,2	2,7	0,6	1,0		
	$f_{r\_\|\_}$	1,9	0,9	2,4	2,4		
Mean MOR in panel shear N/mm²	$G_{v\,\|\|}$	350	350	350			
	$G_{v\_\|\_}$	350	350	350			
Mean MOR in planar shear N/mm²	$G_{r\,\|\|}$	40	285	35			
	$G_{r\_\|\_}$	203	33	200			
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, January 10th, 2022

Sirkku Salmikuukka

Sirkku Salmikuukka, Product Manager
UPM Plywood