DECLARATION OF CONFORMITY, UPM PLYWOOD
No. UPM021CPR

1. Unique identification code of the product-type:
Structural spruce plywood, uncoated or coated, 9–50 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
Rutherford House, First Floor, Warrington Road, Birchwood
Warrington, Cheshire
WA3 6ZH
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 certificate of conformity of the factory production control xxx-xxxx-xxx.

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 (uncoated)	
	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)
Without an air gap behind the wood-based panel [1], [2], [5]	15	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]	15	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		15 unsanded	18	18 unsanded	19	21	22	Harmonised standard EN 13986:2004+A1:2015
Number of plies		5	7	7	6	8	7	
Essential characteristics		Performance						
Characteristic bending strength N/mm²	$f_{m\,\|\|}$	23,8	27,5	21,3	23,4	20,8	20,6	
	$f_{m\_\|\_}$	10,4	5,7	12,1	10,2	12,9	12,8	
Characteristic compression strength N/mm²	$f_{c\,\|\|}$	18,0	21,1	17,1	21,8	16,0	16,8	
	$f_{c\_\|\_}$	12,0	8,9	12,9	8,2	14,0	13,2	
Characteristic tension strength N/mm²	$f_{t\,\|\|}$	10,8	12,7	10,3	13,1	9,6	10,1	
	$f_{t\_\|\_}$	7,2	5,3	7,7	4,9	8,4	7,9	
Mean MOE in bending N/mm²	$E_{m\,\|\|}$	9504	10994	8536	9359	8319	8243	
	$E_{m\_\|\_}$	2496	1006	3464	2641	3681	3757	
Mean MOE in compression and tension N/mm²	$E_{t,c\,\|\|}$	7200	8455	6857	8733	6408	6716	
	$E_{t,c\_\|\_}$	4800	3545	5143	3267	5592	5284	
Char. panel shear N/mm²	$f_{v\,\|\|}$	3,5	3,5	3,5	3,5	3,5	3,5	
	$f_{v\_\|\_}$	3,5	3,5	3,5	3,5	3.5	3,5	
Char. Planar shear N/mm²	$f_{r\,\|\|}$	1,1	1,0	1,0	1,2	1,0	1,0	
	$f_{r\_\|\_}$	0,6	0,4	0,8	0,5	0,8	0,8	
Mean MOR in panel shear N/mm²	$G_{v\,\|\|}$	350	350	350	350	350	350	
	$G_{v\_\|\_}$	350	350	350	350	350	350	
Mean MOR in planar shear N/mm²	$G_{r\,\|\|}$	51	59	52	89	48	52	
	$G_{r\_\|\_}$	28	21	36	22	41	37	
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 1st, 2023

Riku Härkönen, Product Manager
UPM Plywood