

## DECLARATION OF PERFORMANCE, UPM PLYWOOD

**No. UPM002CPR**

1. Unique identification code of the product-type:  
Structural spruce plywood, uncoated or coated, 5–50 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
5. System of AVCP:  
AVCP system 2+
- 6a. Harmonised standard:  
EN 13986:2004 + A1:2015

**Notified body:**

Inspecta Sertifiointi 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 certificate of conformity of the factory production control 0416-CPR-7110.

7. Declared performance:

Essential characteristics	Performance	Harmonised standard
Reaction to fire	D-s2,d0 (min 9 mm)	EN 13986:2004+A1:2015
	E (< 9 mm)	
	Dfl-s1 (Flooring, min 9 mm)	
Water vapour permeability $\mu$	wet 70, dry 200 (uncoated)	
Release of formaldehyde	E1	
Content of pentachlorophenol (PCP)	Does not contain	
Airborne sound insulation	NPD	
Sound absorption $\alpha$	0,10/0,30	
Thermal conductivity $\lambda$	0,13	
Bonding quality (acc. to EN 314-2)	Class 3	
Biological durability	Use class 2 (uncoated)	
	Use class 3 (coated and edge sealed)	
Mean density kg/m <sup>3</sup>	500	

## 7. Declared performance

Nominal thickness		5	6,5	9	12	15	18	19	21	24	27	30	40	50	
Number of plies		3	3	5	7	7	9	9	11	11	13	15	21	21	
Essential characteristics		Performance													
Characteristic bending strength N/mm <sup>2</sup>	$f_{m,  }$	28,5	29,2	22,5	20,6	18,3	18,7	19,1	18,1	18,6	17,7	17,2	16,6	14,8	
	$f_{m,\perp}$	4,1	2,8	11,8	13,3	15,1	13,9	13,2	14,1	13,3	14,1	14,4	14,6	16,3	
Characteristic compression strength N/mm <sup>2</sup>	$f_{c,  }$	18,9	20,9	17,2	15,8	14,6	16,7	17,5	16,0	17,4	16,5	16,3	15,5	14,5	
	$f_{c,\perp}$	11,1	9,1	12,8	14,8	15,4	13,3	12,5	14,0	12,6	13,5	13,7	14,5	15,5	
Characteristic tension strength N/mm <sup>2</sup>	$f_{t,  }$	11,3	12,5	10,3	9,5	8,8	10,0	10,5	9,6	10,4	9,9	9,8	9,3	8,7	
	$f_{t,\perp}$	6,7	5,5	7,7	8,9	9,2	8,0	7,5	8,4	7,6	8,1	8,2	8,7	9,3	
Mean MOE in bending N/mm <sup>2</sup>	$E_{m,  }$	11390	11666	8995	8231	7308	7492	7641	7249	7444	7075	6873	6629	5905	
	$E_{m,\perp}$	610	334	3005	3826	4692	4508	4359	4751	4556	4925	5127	5371	6095	
Mean MOE in compression and tension N/mm <sup>2</sup>	$E_{t,c,  }$	7556	8364	6894	6328	5842	6667	7000	6393	6958	6586	6510	6203	5810	
	$E_{t,c,\perp}$	4444	3636	5106	5902	6158	5333	5000	5607	5042	5414	5490	5797	6190	
Char. panel shear N/mm <sup>2</sup>	$f_{v,  }$	3,5		3,5											
	$f_{v,\perp}$	3,5		3,5											
Char. Planar shear N/mm <sup>2</sup>	$f_{r,  }$	0,9		1											
	$f_{r,\perp}$	NPD		0,8											
Mean MOR in panel shear N/mm <sup>2</sup>	$G_{v,  }$	350		350											
	$G_{v,\perp}$	350		350											
Mean MOR in planar shear N/mm <sup>2</sup>	$G_{r,  }$	40		50											
	$G_{r,\perp}$	NPD		40											
Strength and stiffness under point load	NPD														
Impact resistance	NPD														
$k_{mod}$ and $k_{def}$ values according to EN 1995-1-1															

Harmonised standard EN 13986:2004+A1:2015

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, February 1st, 2017



Riku Härkönen, Product Manager  
UPM Plywood