

## DECLARATION OF PERFORMANCE, UPM PLYWOOD

**No. UPM005CPR**

1. Unique identification code of the product-type:  
Structural spruce plywood, uncoated, 7,5–12 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
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	F	EN 13986:2004+A1:2015
Water vapour permeability $\mu$	wet 66, dry 190 (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	
Mean density kg/m <sup>3</sup>	460	

## 7. Declared performance

		Decor			Panel	
Nominal thickness		7,5	10	12	10	12
Number of plies		3	3	5	5	5
Essential characteristics		Performance				
Characteristic bending strength N/mm <sup>2</sup>	$f_{m\parallel}$	28,6	28,7	22,8	17,5	18,2
	$f_{m\perp}$	3,9	3,7	11,4	1,2	1,1
Characteristic compression strength N/mm <sup>2</sup>	$f_{c\parallel}$	19,2	19,4	17,4	14,4	13,9
	$f_{c\perp}$	10,8	10,6	12,6	1,2	1,3
Characteristic tension strength N/mm <sup>2</sup>	$f_{t\parallel}$	11,5	11,6	10,5	8,6	8,4
	$f_{t\perp}$	6,5	6,4	7,5	0,7	0,8
Mean MOE in bending N/mm <sup>2</sup>	$E_{m\parallel}$	11435	11472	9124	7009	7299
	$E_{m\perp}$	565	528	2876	324	288
Mean MOE in compression and tension N/mm <sup>2</sup>	$E_{t,c\parallel}$	7667	7765	6968	5760	5574
	$E_{t,c\perp}$	4333	4235	5032	480	503
Char. panel shear N/mm <sup>2</sup>	$f_{v\parallel}$	3,5	3,5	3,5	2,8	2,8
	$f_{v\perp}$	3,5	3,5	3,5	0,35	0,35
Char. Planar shear N/mm <sup>2</sup>	$f_{r\parallel}$	1,0	1,0	1,1	0,9	0,9
	$f_{r\perp}$	NPD	NPD	0,6	0,1	0,1
Mean MOR in panel shear N/mm <sup>2</sup>	$G_{v\parallel}$	350	350	350	280	280
	$G_{v\perp}$	350	350	350	35	35
Mean MOR in planar shear N/mm <sup>2</sup>	$G_{r\parallel}$	35	49	49	45	40
	$G_{r\perp}$	NPD	40	39	3	3
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