

## DECLARATION OF PERFORMANCE, UPM PLYWOOD

No. **UPM004CPR**

1. Unique identification code of the product-type:  
Structural spruce plywood, uncoated, 15–19 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-Kymmene Wood 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	EN 13986:2004+A1:2015
	Dfl-s1 (flooring)	
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>	450	

## 7. Declared performance

Nominal thickness		16	18	15	19	Harmonised standard EN 13986:2004+A1:2015
Number of plies		6	7	7	7	
Essential characteristics		Performance				
Characteristic bending strength N/mm <sup>2</sup>	$f_{m\parallel}$	28,9	27,7	36,7	36,1	
	$f_{m\perp}$	3,3	5,3	7,5	8,4	
Characteristic compression strength N/mm <sup>2</sup>	$f_{c\parallel}$	20,0	21,4	20,5	20,1	
	$f_{c\perp}$	10,0	8,6	9,5	9,9	
Characteristic tension strength N/mm <sup>2</sup>	$f_{t\parallel}$	12,0	12,9	12,3	12,1	
	$f_{t\perp}$	6,0	5,1	5,7	5,9	
Mean MOE in bending N/mm <sup>2</sup>	$E_{m\parallel}$	11556	11090	11006	10831	
	$E_{m\perp}$	444	910	994	1169	
Mean MOE in compression and tension N/mm <sup>2</sup>	$E_{t,c\parallel}$	8000	8571	8195	8041	
	$E_{t,c\perp}$	4000	3429	3805	3959	
Char. panel shear N/mm <sup>2</sup>	$f_{v\parallel}$	3,5				
	$f_{v\perp}$	3,5				
Char. Planar shear N/mm <sup>2</sup>	$f_{r\parallel}$	0,9				
	$f_{r\perp}$	NPD	0,4			
Mean MOR in panel shear N/mm <sup>2</sup>	$G_{v\parallel}$	350				
	$G_{v\perp}$	350				
Mean MOR in planar shear N/mm <sup>2</sup>	$G_{r\parallel}$	47	60	53		
	$G_{r\perp}$	NPD	20	24		
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, November 11th, 2016



Riku Härkönen, Product Manager  
UPM Plywood