

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 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	EN 13986:2004+A1:2015
	Dfl-s1 (flooring)	
Water vapour permeability μ	wet 66, dry 190 (uncoated)	
Release of formaldehyde	E1	
Content of pentachlorophenol (PCP)	Does not contain	
Airborne sound insulation	NPD	
Sound absorption α	0,10/0,30	
Thermal conductivity λ	0,13	
Bonding quality (acc. to EN 314-2)	Class 3	
Biological durability	Use class 2	
Mean density kg/m ³	450	

7. Declared performance

Nominal thickness		16	18	15	19
Number of plies		6	7	7	7
Essential characteristics		Performance			
Characteristic bending strength N/mm ²	$f_{m\parallel}$	28,9	27,7	36,7	36,1
	$f_{m\perp}$	3,3	5,3	7,5	8,4
Characteristic compression strength N/mm ²	$f_{c\parallel}$	20,0	21,4	20,5	20,1
	$f_{c\perp}$	10,0	8,6	9,5	9,9
Characteristic tension strength N/mm ²	$f_{t\parallel}$	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 ²	$E_{m\parallel}$	11556	11090	11006	10831
	$E_{m\perp}$	444	910	994	1169
Mean MOE in compression and tension N/mm ²	$E_{t,c\parallel}$	8000	8571	8195	8041
	$E_{t,c\perp}$	4000	3429	3805	3959
Char. panel shear N/mm ²	$f_{v\parallel}$	3,5			
	$f_{v\perp}$	3,5			
Char. Planar shear N/mm ²	$f_{r\parallel}$	0,9			
	$f_{r\perp}$	NPD	0,4		
Mean MOR in panel shear N/mm ²	$G_{v\parallel}$	350			
	$G_{v\perp}$	350			
Mean MOR in planar shear N/mm ²	$G_{r\parallel}$	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					

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