

## DECLARATION OF PERFORMANCE, UPM PLYWOOD

**No. UPM008CPR**

1. Unique identification code of the product-type:  
Structural birch plywood, uncoated or coated, 15–35 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-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 certificates of conformity of the factory production control 0416-CPR-7108 (Joensuu), 0416-CPR-7109 (Jyväskylä), 0416-CPR-7110 (Pellos), 0416-CPR-7111 (Savonlinna), 0416-CPR-7112 (Chudovo), 0416-CPR-7113 (Otepää).

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 90, dry 220 (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 $\lambda$	0,17	
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>	680	

## 7. Declared performance

Nominal thickness		15	18	21	22	24	25	27	28	30	31	35	
Number of plies		11	13	15	16	17	18	19	20	21	22	25	
Essential characteristics		Performance											
Characteristic bending strength N/mm <sup>2</sup>	$f_{m\parallel}$	28,3	26,6	25,8	25,7	25,5	25,2	25,6	25,6	25,7	25,6	26,2	
	$f_{m\perp}$	48,9	49,6	49,5	49,3	49,1	48,6	48,6	48,2	48,0	47,5	46,8	
Characteristic compression strength N/mm <sup>2</sup>	$f_{c\parallel}$	17,6	18,9	19,9	18,6	20,6	19,4	21,2	20,1	21,7	20,7	22,4	
	$f_{c\perp}$	34,4	33,1	32,1	33,4	31,4	32,6	30,8	31,9	30,3	31,3	29,6	
Characteristic tension strength	$f_{t\parallel}$	25,3	27,3	28,7	26,8	29,7	28,0	30,6	29,0	31,3	29,8	32,3	
	$f_{t\perp}$	49,7	47,7	46,3	48,2	45,3	47,0	44,4	46,0	43,8	45,2	42,7	
Mean MOE in bending N/mm <sup>2</sup>	$E_{m\parallel}$	7087	6648	6453	6413	6386	6364	6388	6407	6428	6446	6555	
	$E_{m\perp}$	10413	10852	11047	11087	11114	11134	11112	11093	11072	11053	10945	
Mean MOE in compression and tension N/mm <sup>2</sup>	$E_{t,c\parallel}$	5912	6364	6691	6261	6940	6545	7135	6770	7292	6954	7529	
	$E_{t,c\perp}$	11588	11136	10809	11239	10560	10955	10365	10730	10208	10546	9971	
Char. panel shear N/mm <sup>2</sup>	$f_{v\parallel}$	9,5			9,5								
	$f_{v\perp}$	9,5			9,5								
Char. Planar shear N/mm <sup>2</sup>	$f_{r\parallel}$	2,6			2,5								
	$f_{r\perp}$	2,3			2,5								
Mean MOR in panel shear N/mm <sup>2</sup>	$G_{v\parallel}$	620			620								
	$G_{v\perp}$	620			620								
Mean MOR in planar shear N/mm <sup>2</sup>	$G_{r\parallel}$	160	170	180	175								
	$G_{r\perp}$	240	220	210	205								
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, November 11th, 2016



Sirku Heinen, Product Manager  
UPM Plywood