

## DECLARATION OF PERFORMANCE

**No. UPM010CPR**

1. Identification code of the product-type:  
Structural birch maxi plywood, uncoated or coated
2. Type, batch or serial number of any other element allowing identification of the construction product:  
Structural birch maxi plywood, uncoated or coated, 9-31 mm
3. Intended use or uses of the construction product:  
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
4. Name, registered trade name or registered trade mark and contact address of the manufacturer:  
WISA®  
UPM-Kymmene Wood Oy  
P.O. Box 203  
FI-15141 Lahti, Finland  
www.wisaplywood.com
6. System or systems of assessment and verification of constancy of performance of the construction product:  
AVCP system 2+
7. In case of the declaration of performance concerning a construction product covered by a harmonised standard:  
Notified factory production control certification body Inspecta Sertifiointi Oy No. 0416 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-7111.

9. Declared performance

Essential characteristics	Performance	Harmonised technical specification
Reaction to fire	D-s2,d0	EN 13986:2004
Water vapour permeability $\mu$	wet 90, dry 220 (uncoated)	
Release of formaldehyde	E1	
Content of pentachlorophenol (PCP)	No indication	
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)	

## 9. Declared performance, strength and stiffness for structural use

Nominal thickness	9	12	15	18	21	22	24	27	30	31	
Number of plies	7	9	11	13	15	16	17	19	21	22	
Essential characteristics	Performance										
Characteristic bending strength N/mm <sup>2</sup>	$f_{m  }$	32,1	30,7	30,0	29,5	29,3	29,2	29,1	28,9	28,8	28,7
	$f_{m\perp}$	32,1	33,2	33,8	34,1	34,3	34,3	34,4	34,5	34,6	34,6
Characteristic compression strength N/mm <sup>2</sup>	$f_{c  }$	NPD									
	$f_{c\perp}$	NPD									
Characteristic tension strength N/mm <sup>2</sup>	$f_{t  }$	NPD									
	$f_{t\perp}$	NPD									
Mean MOE in bending N/mm <sup>2</sup>	$E_{m  }$	10026	9591	9366	9231	9142	9114	9080	9034	8999	8983
	$E_{m\perp}$	6105	6781	7184	7452	7642	7713	7783	7893	7981	8020
Mean MOE in compression and tension N/mm <sup>2</sup>	$E_{t,c  }$	NPD									
	$E_{t,c\perp}$	NPD									
Char. panel shear N/mm <sup>2</sup>	$f_{v  }$	NPD									
	$f_{v\perp}$	NPD									
Char. Planar shear N/mm <sup>2</sup>	$f_{r  }$	NPD									
	$f_{r\perp}$	NPD									
Mean MOR in panel shear N/mm <sup>2</sup>	$G_{v  }$	NPD									
	$G_{v\perp}$	NPD									
Mean MOR in planar shear N/mm <sup>2</sup>	$G_{r  }$	NPD									
	$G_{r\perp}$	NPD									
Strength and stiffness under point load	NPD										
Impact resistance	NPD										

Harmonised technical specification EN 13986:2004

$k_{mod}$  and  $k_{def}$  values according to EN 1995-1-1

10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

Signed for and on behalf of the manufacturer by:

Lahti, Finland, 1 July, 2013



Kimmo Rinne, Portfolio Manager