

## DECLARATION OF PERFORMANCE

No. **UPM005CPR**

1. Identification code of the product-type:  
Structural spruce plywood, uncoated
2. Type, batch or serial number of any other element allowing identification of the construction product:  
Structural spruce plywood, uncoated, 7,5-12 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
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-7109.
9. Declared performance

Essential characteristics	Performance	Harmonised technical specification
Reaction to fire	F	EN 13986:2004
Water vapour permeability $\mu$	wet 66, dry 190 (uncoated)	
Release of formaldehyde	E1	
Content of pentachlorophenol (PCP)	No indication	
Airborne sound insulation	NPD	
Sound absorption $\alpha$	0,10/0,30	
Thermal conductivity $\lambda$	0,13	
Bonding quality (acc. to EN 314-2)	Class 3	
Biological durability	Use class 2	

9. Declared performance, strength and stiffness for structural use

		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>	$f_{m  }$	28,6	28,7	22,8	17,5	18,2	Harmonised technical specification EN 13986:2004	
	$f_{m\perp}$	3,9	3,7	11,4	1,2	1,1		
Characteristic compression strength N/mm <sup>2</sup>	$f_{c  }$	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>	$f_{t  }$	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>	$E_{m  }$	11435	11472	9124	7009	7299		
	$E_{m\perp}$	565	528	2876	324	288		
Mean MOE in compression and tension N/mm <sup>2</sup>	$E_{tc  }$	7667	7765	6968	5760	5574		
	$E_{tc\perp}$	4333	4235	5032	480	503		
Char. panel shear N/mm <sup>2</sup>	$f_{v  }$	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>	$f_{r  }$	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>	$G_{v  }$	350	350	350	280	280		
	$G_{v\perp}$	350	350	350	35	35		
Mean MOR in planar shear N/mm <sup>2</sup>	$G_{r  }$	35	49	49	45	40		
	$G_{r\perp}$	NPD	40	39	3	3		
Strength and stiffness under point load		NPD						
Impact resistance		NPD						
k <sub>mod</sub> and k <sub>def</sub> 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



Riku Härkönen, Portfolio Manager