



DECLARATION OF PERFORMANCE, UPM PLYWOOD No. UPM998CPR

Unique identification code of the product-type:
 Structural spruce plywood, uncoated or coated, 12–24 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:
UPM Plywood Oy
P.O. Box 203
FI-15141 Lahti, Finland
www.upmplywood.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		
Point load strength and stiffness	NPD			
Racking resistance	Calculation according to EN 1995-1-1			
Impact resistance	NPD			
\\/	Wet 66, dry 190 (uncoated)			
Water vapor permeability μ	Mean density 460kg/m ³			
Release of formaldehyde	E1			
Content of pentachlorophenol (PCP)	≤ 5 ppm			
Airborne sound insulation	NPD	EN 13986:2004+A1:2015		
Sound absorption α	0,10/0,30			
Thermal conductivity λ	0,13 W/mK			
Embedment strength	Calculation according to EN 1995-1-1			
Air permeability	NPD			
Bonding quality (acc. to EN 314-2)	Class 3			
Biological durability	Use class 2			

Reaction to fire according to EN 13986:2004+A1:2015						
End use condition	Minimum thickness (mm)	Class (excluding floorings)	Class (floorings)			
Without an air gap behind the wood-based panel	12	D-s2, d0	D _{fl} -s1			
With a closed or an open air gap not more than 22 mm behind the wood-based panel	12	D-s2, d2	-			
With a closed air gap behind the wood-based panel	15	D-s2, d1	D _{fl} -s1			
With an open air gap behind the wood-based panel	18	D-s2, d0	D _{fl} -s1			



Nominal thickness		12	15	18	21	24	
Number of plies		5	5	7	7	9	
Essential characteristics							
Characteristic bending strength N/mm²	<i>f</i> _m	22,8	23,0	20,4	18,9	19,4	
	f _{m_} _	11,4	11,2	13,0	14,3	13,1	
Characteristic compression strength N/mm²	f _c	17,4	17,5	16,7	16,0	17,0	
	fc_ _	12,6	12,5	13,3	14,0	13,0	
Characteristic tension strength N/mm²	ft∥	10,5	10,5	10,0	9,6	10,2	- 53
	ft_ _	7,5	7,5	8,0	8,4	7,8	1:20
Mean MOE in bending N/mm ²	Em	9123	9201	8170	7547	7751	004+A:
	E _{m_ _}	2876	2799	3830	4453	4249	36:20
Mean MOE in compression and tension N/mm²	E _{t,c}	6968	7013	6682	6408	6800	
	Et,c_ _	5032	4987	5318	5592	5200	ard E
Char. panel shear N/mm²	f _v			3,5			stand
,	f _{v_ _}			3,5			nised
Char. Planar shear N/mm²	f _r			1,0			Harmo
, , , , , , , , , , , , , , , , , , , ,	fr_ _	0	,6		0,8		
Mean MOR in panel shear	G _V			350			
N/mm²	G _{V_l_}			350			
Mean MOR in planar shear N/mm²	G _r			50			_
	G _{r_l_}	3	30		40		
Strength and stiffness under point load		NPD					
Impact resistance				NPD			
	ŀ	K _{mod} and k _{def} va	lues according t	o 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.

flow Host

Signed for and on behalf of the manufacturer by:

Lahti, Finland, May 1st, 2024

Riku Härkönen, Product Manager UPM Plywood





Appendix 1, UPM998CPR

Characteristic values for static concentrated load, mean stiffness and soft body impact class accordance with EN 12871; 2013 for structural roof and floor decking.

Concentrated load - Bending

			Characteristic strength		Mean stiffness		
Thickness (Nominal) mm	Veneers/ layers	Maximum Span mm	Serviceability limit state F _{ser,k} N	Maximum load F _{max,k} N	R _{mean} N/mm	Impact class	
Floor							
15	5/5	400	5340	6390	450	Class I and Class II	
18*	7/7	600	4720	6000	400	Class I and Class II	
21	7/7	600	3650	4200	396	Class I and Class II	
21*	7/7	815	4539	6739	410	Class I and Class II	
24	9/9	400	7000	9680	1258	Class I and Class II	
24	9/9	600	7000	8650	663	Class I and Class II	
24*	9/9	815	7101	8000	607	Class I and Class II	
Roof							
12	5/5	600	3333	3667	158	Class I and Class II	
15	5/5	800	2778	3756	134	Class I and Class II	
18	7/7	1200	3378	4056	90	Class I and Class I	
21	7/7	1200	3500	4600	140	Class I and Class II	

^{*} All edges shall be supported.