DECLARATION OF PERFORMANCE

FIRE-RETARDANT PLYWOOD

DoP No: KKN-04-001-CPR
CE certificate No: 2412-CPR-1301-02

1. Product type

Koskisen fire-retardant birch plywood

- KoskiDecor F

2. Intended use of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer

Structural components in dry or humid conditions

EN 636-2 S

- for internal structural use in dry conditions
- for internal or protected external structural use in humid conditions

EN 636-3 S

- for internal structural use in dry conditions
- for internal or protected external structural use in humid conditions
- for external structural use with certain type of coating and edge protection

3. Name and address of the manufacturer

Koskisen Oyj
Plywood mill
Tehdastie 2
16600 Järvelä
Finland
www.koskisen.com

4. System of assessment and verification of constancy of performance

AVCP system 2+

5. Construction product covered by a harmonised standard

Control Union Finland Oy, notified production control certification body No. 2412 performed initial inspections of the manufacturing plant and factory production control and performs continuous surveillance, assessments, and evaluation of factory production control under system AVCP 2+ and issued the certificate of conformity of the factory production control for CE marking: 2412-CPR-1301-02. Harmonised standard EN 13986:2004 + A1:2015.

6. Declared performance

KOSKISEN BIRCH PLYWOOD

Nominal thickness	Number of plies	Characteristic Strength						Mean Modulus of Elasticity				Characteristic Strength				Mean Modulus of Rigidity			
		Bending N/mm²		Compression N/mm²		Tension strength N/mm²		Bending N/mm²		Compression and tension N/mm²		Panel shear N/mm²		Planar shear N/mm²		Panel shear N/mm²		Planar N/mm²	
		$f_{m\,II}$	$f_{m\perp}$	$f_{c\,II}$	$f_{c\perp}$	$f_{t\,II}$	$f_{t\perp}$	$E_{m\,II}$	$E_{m\perp}$	$E_{t,c\,II}$	$E_{t,c\perp}$	$f_{v\,II}$	$f_{v\perp}$	$f_{r\,II}$	$f_{r\perp}$	$G_{v\,II}$	$G_{v\perp}$	$G_{r\,II}$	$G_{r\perp}$
4	3	65.9	10.6	31.8	20.2	45.8	29.2	16471	1029	10694	6809			2.8	NPD			169	NPD
6,5	5	50.9	29.0	29.3	22.8	42.2	32.8	12737	4763	9844	7656			3.2	1.8			169	123
9	7	45.6	32.1	28.3	23.7	40.8	34.2	11395	6105	9511	7989			2.7	2.4			206	155
12	9	42.9	33.2	27.7	24.3	40.0	35.0	10719	6781	9333	8167			2.8	2.2			207	170
15	11	41.3	33.8	27.4	24.6	39.5	35.5	10316	7184	9223	8277			2.6	2.4			207	178
18	13	40.2	34.1	27.2	24.8	39.2	35.8	10048	7452	9147	8352			2.7	2.3			206	183
21	15	39.4	34.3	27.0	25.0	39.0	36.0	9858	7642	9093	8407	9.5	9.5	2.6	2.4	620	620	206	186
24	17	38.9	34.4	26.9	25.1	38.8	36.2	9717	7783	9052	8448			2.6	2.4			206	189
27	19	38.4	34.5	26.8	25.2	38.7	36.3	9607	7893	9019	8481			2.6	2.4			205	190
30	21	38.1	34.6	26.7	25.3	38.5	36.5	9519	7981	8993	8507			2.6	2.4			205	192
35	25	37.6	34.7	26.6	25.4	38.4	36.6	9389	8111	8953	8547			2.6	2.4			204	193
40	29	37.2	34.7	26.5	25.5	38.3	36.8	9296	8204	8925	8575			2.6	2.4			204	195
45	33	37.0	34.7	26.5	25.5	38.2	36.8	9259	8241	8914	8586			2.6	2.5			203	195
50	37	36.8	34.8	26.4	25.6	38.1	36.9	9198	8302	8895	8605			2.5	2.5			203	196

Essential characteristics	Performance		Standard
Bonding quality (EN 314-2)	Class 3, exterior		EN 13986
Release of formaldehyde (EN 717-1)	E05 (≤ 0.062 mg/m³)		
Water vapour permeability Uncoated density 680 kg/m3	Wet cup	88 μ	
	Dry cup	218 μ	
Thermal conductivity	0,17 W/mK		
Sound absorption	0,10 α (250 Hz – 500 Hz) 0,30 α (1 000 Hz – 2 000 Hz)		
Airborne sound insulation	NPD		
Impact resistance	NPD		

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Tehdastie 2 | 16600, Järvelä, Finland
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Strength and stiffness under point load	NPD	
Mechanical resistance	K_{mod}	According to EN 1995-1-1
	K_{def}	
Biological durability (EN 335)	Uncoated or coated without edge sealing	Use class 2
	Coated and edge sealed	Use class 3
Content of pentachlorophenol (PCP)	≤ 5 ppm	
Characteristic embedment strength	According to EN 1995-1-1: characteristic density (Pk) 630 kg/m³	
Racking resistance	According to EN 1995-1-1: characteristic embedment strength, see above	

Reaction to fire		
End use condition	Minimum thickness (mm)	Class
Without an air gap behind the wood-based panel [1]	9	B-s1, d0
With or without airgap [2]	18	B-s1, d0

1) The background to which it is mounted: wood-based panel, min. D-s2, d0 or any A1 or A2-s1, d0 panel, with density min. 510 kg/m3 and thickness min. 10 mm. Mechanically fixed without airgap.
2) The background to which it is mounted: wood-based panels, min. D-s2, d0 or any A1 or A2-s1, d0 panel, with density min. 338 kg/m3 and thickness min. 8 mm. Assembling with or without airgap behind, max. 40 mm or if there is on behind A1 with density min. 38 kg/m3 and thickness min. 20 mm, mechanically fixed without airgap.

The performance of the product identified in point 1. is in conformity with the declared performance in point 6. This declaration of performance under the sole responsibility of the manufacturer identified in point 3.

Signed for and behalf of the manufacturer 02.12.2025

Santtu Eilamo

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Quality Manager, Panel Industry

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