

20.4.2018

DECLARATION OF PERFORMANCE, DOP

No. KKN-04-001-CPR / 2412-CPR-1301-02

1. Product type

PLYWOOD: birch or combi structural plywood

Uncoated or coated

2. Type, batch or serial number or any other identification

KOSKISEN birch or combi structural plywood

Uncoated or coated

3. Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer*Structural component in dry conditions*

EN 636-1 as structural component in dry conditions

Structural component in dry and humid conditions

EN 636-2 birch or combi structural plywood. For internal use as a structural component in humid conditions and for protected external use.

EN 636-3 birch or combi structural plywood. For internal structural use in dry conditions. For internal or protected external structural use in humid conditions. For external use as a structural component with certain type of coating and edge protection.

4. Name and address of the manufacturer

Koskisen Oy

Plywood mill

Tehdastie 2

16600 Järvelä

www.koskisen.com**5. System or systems of assessment and verification of constancy of performance**

AVCP system 2+

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6. Construction product covered by a harmonised standard

Finotrol Oy, notified production control certification body No 2412 performed initial inspection of the manufacturing plants and of factory production control and performs continuous surveillance, assessment and evaluation of factory production control under system 2+ and issued the certificate of conformity of the factory production control: **2412-CPR-1301-02**. Harmonised standard EN 13986:2004 + A1:2015.

7. Declared performance

Harmonised technical specification EN 13986:2004 + A1:2015

KOSKISEN BIRCH PLYWOOD																			
Nominal thickness	Number of plies	Characteristic Strength						Mean Modulus of Elasticity				Characteristic Strength				Mean Modulus of Rigidity			
		Bending N/mm ²		Compression N/mm ²		Tension strength N/mm ²		Bending N/mm ²		Compression and tension N/mm ²		Panel shear N/mm ²		Planar shear N/mm ²		Panel shear N/mm ²		Planar N/mm ²	
		f _m	f _{m⊥}	f _c	f _{c⊥}	f _t	f _{t⊥}	E _m	E _{m⊥}	E _{t,c}	E _{t,c⊥}	f _v	f _{v⊥}	f _r	f _{r⊥}	G _v	G _{v⊥}	G _r	G _{r⊥}
4	3	65.9	10.6	31.8	20.2	45.8	29.2	16471	1029	10694	6809	9.5	9.5	2.8	NPD	620	620	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			2.6	2.4			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

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KOSKISEN COMBI PLYWOOD																			
Nominal thickness	Number of plies	Characteristic Strength						Mean Modulus of Elasticity				Characteristic Strength				Mean Modulus of Rigidity			
		Bending N/mm ²		Compression N/mm ²		Tension strength N/mm ²		Bending N/mm ²		Compression and tension N/mm ²		Panel shear N/mm ²		Planar shear N/mm ²		Panel shear N/mm ²		Planar N/mm ²	
		f _m	f _{m⊥}	f _c	f _{c⊥}	f _t	f _{t⊥}	E _m	E _{m⊥}	E _{t,c}	E _{t,c⊥}	f _v	f _{v⊥}	f _r	f _{r⊥}	G _v	G _{v⊥}	G _r	G _{r⊥}
6,5	5	50.8	29.0	24.5	22.8	19.1	32.8	12690	4763	8859	7656			3.2	1.1	600	600	169	41
9	7	43.9	32.1	22.5	23.7	17.5	34.2	10983	6105	8141	7989			2.7	1.5	593	593	206	52
12	9	40.0	33.2	21.5	24.3	16.7	35.0	10012	6781	7758	8167			2.8	1.4	589	589	207	57
15	11	37.5	33.8	20.8	24.6	16.2	35.5	9386	7184	7520	8277			2.6	1.5	586	586	207	59
18	13	35.8	34.1	20.4	24.8	15.8	35.8	8950	7452	7358	8352	7.0	7.0	2.7	1.5	584	584	206	61
21	15	34.5	34.3	20.0	25.0	15.6	36.0	8628	7642	7240	8407			2.6	1.6	583	583	206	62
24	17	32.9	34.4	19.8	25.1	15.4	36.2	8381	7783	7151	8448			2.6	1.5	582	582	206	63
27	19	31.2	34.5	19.6	25.2	16.3	36.3	8185	7893	7081	8481			2.6	1.6	581	581	205	63
30	21	29.9	34.6	19.5	25.3	15.1	36.5	8026	7981	7024	8507			2.6	1.5	581	581	205	64

Essential characteristics

Performance

bonding quality	class 3, exterior	
release of formaldehyde	E1	
water vapour permeability	wet cup	dry cup
density ave 680 kg/m ³	88 μ	218 μ
thermal conductivity birch W/(m K)	0,17	
thermal conductivity combi W/(m K)	0,14	
sound absorption	0,10 (250 Hz – 500 Hz) 0,30 (1 000 Hz – 2 000 Hz)	
airbone sound installation	NPD	
impact resistance	NPD	
strength and stiffness under point load	NPD	
biological durability EN 335		
uncoated or coated without edge sealing	use class 2	
coated and edges protected	use class 3	
Fire class EN 13501		
Uncoated plywood	D-s2,d0 for 9 mm and thicker plywood	

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8. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 7. This declaration of performance is issued in accordance with Regulation N:o 305/2011 and is under the sole responsibility of the manufacturer identified in point 4.

Signed for and behalf of the manufacturer by

In Järvelä 18.12.2017



Juha Jalkanen

Director, Panel Industry

FRITZOE
ENGROS