Declaration of performance acc. Regulation EU No. 305/2011 (CPR)
No. OSB3-CPR-2013-07-01

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DECLARATION OF PERFORMANCE
No. OSB3-CPR-2013-07-01

1. Unique identification code of the product-type:

OSB 3

2. Intended use or uses of the construction product:

For internal use as a structural component in humid conditions
(OSB/3 acc. EN 300 is load-bearing board for use in humid conditions)

3. Name and contact address of the manufacturer:

KRONOSPAN OSB, spol. s r. o.
Na Hranici 6, CZ - 587 04 Jihlava
Czech Republic

4. System of assessment and verification of constancy of performance:

System 2+

5. Harmonised standard:

EN 13986: 2004 + A1:2015

The notified body:

no. 1393
Výzkumný a vývojový ústav dřevařský, Praha, s.p.
(Timber Research and Development Institute, Prague)
Na Florenci 7-9, 111 71 Praha 1, Czech Republic
www.vvud.cz

The notified body - **Timber Research and Development Institute, Prague** - performed initial inspection of the manufacturing plant and of factory production control and performs continuous surveillance, assessment and evaluation of factory production control under the system 2+ as described in harmonised standard **EN 13986: 2004 + A1:2015**
Notified body issued the Certificate of conformity of the factory production control (FPC) **No. 1393-CPR-0273**

6. Declared performance

Essential characteristics			Performance				Harmonised technical specification
			Boards thickness in mm				
			> 6 – 10	> 10 – 18	> 18 - 25	> 25 - 30	
Strength acc. EN 12369-1 [N/mm^2]	Bending f_m	Major axis (0)	18,0	16,4	14,8	NPD	EN 13986:2004 + A1:2015
		Minor axis (90)	9,0	8,2	7,4	NPD	
	Tension f_t	Major axis (0)	9,9	9,4	9,0	NPD	
		Minor axis (90)	7,2	7,0	6,8	NPD	
	Compression f_c	Major axis (0)	15,9	15,4	14,8	NDP	
		Minor axis (90)	12,9	12,7	12,4	NPD	
	Panel shear f_v		6,8	6,8	6,8	NPD	
	Planar shear f_r		1,0	1,0	1,0	NPD	
Stiffness (MOE) acc. EN 12369-1 [N/mm^2]	Bending E_m	Major axis (0)	4930			NPD	
		Minor axis (90)	1980			NPD	
	Tension E_t	Major axis (0)	3800			NPD	
		Minor axis (90)	3000			NPD	
	Compression E_c	Major axis (0)	3800			NDP	
		Minor axis (90)	3000			NPD	
	Panel shear G_v		1080			NDP	
	Planar shear G_r		50			NPD	

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Punching shear as point load strength and point load stiffness			NPD						EN 13986:2004 + A1:2015
Racking resistance acc. EN 1995-1-1 [1]	board thickness [mm]		11	12	15	16	18	22	25
	Char.value $F_{i,v,Rk}$ [kN]		4.38	4.38	4.40	4.40	4.41	4.42	4.43
Impact resistance			NPD						
Reaction to fire	End use condition : [2]		Class acc. EN 13501-1 (excl. flooring):					Class (flooring):	
	w/o an air gap behind the OSB [3]		class D-s2,d0 for th. 8 till 12 mm class D-s1,d0 for th. ≥ 12 mm					D_{fl} - s1	
	with a closed or open air gap behind the OSB panel [4]								
	any							E_{fl}	
Water vapour permeability (EN ISO 12572) [5]			$\mu_{(DRY / WET)}$ = 200 / 100						
Release of formaldehyde			Class E1 (≤ 0,03 ppm)						
Release (content) of pentachlorophenol (PCP)			PCP ≤ 5 ppm						
Airborne sound insulation acc. EN 13986 [5]	board th. [mm]		8	10	12	15	18	22	25	30
	R [dB]		23	24	25	2 6	27	28	29	30
Sound absorption acc. EN 13986, Tab.10			α = 0,10 (frequency range 250 Hz to 500 Hz) α = 0,25 (frequency range 1000 Hz to 2000 Hz)						
Thermal conductivity (density) acc. EN 12664[5]			λ = 0,1 W / m . K						
Embedment strength			EN 1995-1-1						
Air permeability			NPD						
Durability	Board thickness [mm]		> 6 – 10		> 10 – 18		> 18 - 25		> 25 - 30
	Internal bond acc. EN 319		0,34 MPa		0,32 MPa		0,30 MPa		0,29 MPa
	Swelling in thickness (24h) acc. EN 317		15 %		15 %		15 %		15 %
	Moisture resistance (Internal bond after boil test) acc. EN 1087-1		0,15 MPa		0,13 MPa		0,12 MPa		0,06 MPa
	Mechanical (duration of load-creep)	Modification factor k_{mod} acc. EN 1995-1-1, tab. 3.1.	Service class	Perma-nent load	Long-term load	Medium-term load	Short-term load	Instanta-neous load	
			1	0,40	0,50	0,70	0,90	1,10	
			2	0,30	0,40	0,55	0,70	0,90	
		Modification factor k_{def} acc. EN 1995-1-1, tab. 3.2.		k_{def} = 1,50 (service class 1) k_{def} = 2,25 (service class 2)					
	Biological durability acc. EN 335			Use class 2					

[1] Valid for wall panel made from timber frame with studs 160/60 mm, e=625mm; panel width 1,25m, frame high max. 3,0m. Timber frame has one side sheathing from OSB3 board. OSB is fastened to the frame by staples BAU 155/50 (minimum length 50 mm, width 10.6 mm and minimum cross section 1.57/1.44 mm).

[2] A vapour barrier with a thickness up to 0,4 mm and a mass up to 200 g/m^2 can be mounted in between the OSB panel and a substrate if there are no air gaps in between. Veneered, phenol- and melamine-faced panels are included for class excl. floorings.

[3] Mounted without an air gap directly against class A1 or A2-s1, d0 products with minimum density 10 kg/m^3 or at least class D-s2, d2 products with minimum density 400 kg/m^3. A substrate of cellulose insulation material of at least class E may be included if mounted directly against the OSB, but not for floorings.

[4] The reverse face of the cavity shall be at least class A2-s1, d0 products with minimum density 10 kg/m^3 or at least class D-s2, d2 products with minimum density 400 kg/m^3.

[3] The information can also be found in the manufacturer's manual (brochure Kronobuild) on www.kronospan-express.com.

7. 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.
Signed for and on behalf of the manufacturer by:
At Jihlava on 1.5.2019

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Peter Vitalis, head of production