

DECLARATION OF PERFORMANCE

No. OSB3-CPR-2013-07-01-10

1. Unique identification code of the product-type:

OSB 3 unsanded
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 boards for use in humid conditions)
3. Name and contact address of the manufacturer:

SIA “KRONOSPAN Rīga”
Daugavgrivas soseja 7B, LV-1016, Rīga, Latvia
Business ID 40 003 774 690
www.kronospan-express.com
4. System of assessment and verification of constancy of performance:

System 2+
5. Harmonised standard:

EN 13986:2004 + A1:2015
6. The notified factory production control certification body:

Fraunhofer-Institute for Wood Research
Wilhelm-Klauditz-Institute WKI
Bienroder Weg 54 E, 38108 Braunschweig, Germany
Notified body no. 0765

The notified factory production control certification body- **Wilhelm-Klauditz-Institute WKI, Germany** - 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 **No. 0765-CPR-778**

7. Declared performance

Specification		Performance				Harmonised technical specification
		Boards thickness in mm				
		9 – 10 mm	> 10 – 18	> 18 - 25	> 25 - 30	
Bending strength acc. EN 310	Major axis	22 MPa	20 MPa	18 MPa	16 MPa	Technical class OSB/3 acc. to EN 300
	Minor axis	11 MPa	10 MPa	9 MPa	8 MPa	
Bending stiffness (Modulus of elasticity) acc. EN 310	Major axis	3500 MPa	3500 MPa	3500 MPa	3500 MPa	
	Minor axis	1400 MPa	1400 MPa	1400 MPa	1400 MPa	

Essential characteristics			Performance				Harmonised technical specification
			Boards thickness in mm				
			9 – 10	> 10 – 18	> 18 - 25	> 25 - 30	
1			2	3	4	5	6
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	NPD	
		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		

Declaration of performance acc. Regulation EU No. 305/2011 (CPR)
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1		2		3		4		5		6		
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				NPD					
		Minor axis (90)	3000				NPD					
Panel shear G _v		1080				NPD						
Planar shear G _r		50				NPD						
Punching shear as point load strength and point load stiffness			NPD									
Racking resistance acc. EN 1995-1-1 ¹	board thickness [mm]	11	12	15	16	18	22	25	EN 13986:2004 + A1:2015			
	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 acc. EN 13501-1			class D-s2,d0 ² for th. 9 till 30 mm class D-s1,d0 ³ for th. 30 mm									
Water vapour permeability			NPD									
Content of formaldehyde			Class E1 (≤ 0.3 mg/ 100g oven dry board)									
Release (content) of pentachlorophenol (PCP)			<0,1 mg/kg									
Airborne sound insulation acc. EN 13986			$R [dB] = 13 \times lg (m_A) + 14$ (for the frequency range of 1 kHz to 3 kHz)									
Sound absorption acc. EN 13986, Tab.10			$\alpha = 0,10$ (frequency range 250 Hz to 500 Hz) $\alpha = 0,25$ (frequency range 1000 Hz to 2000 Hz)									
Thermal conductivity (density) acc. EN 12664			$\lambda = 0,1 W / m \cdot K$									
Embedment strength			EN 1995-1-1									
Air permeability			NPD									
Durability	Board thickness [mm]		9 – 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	Modification factor k _{mod} acc. EN1995-1-1, tab.3.1.	Service class	Permanent load	Long-term load	Medium-term load	Short-term load	Instantaneous 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. EN335			use class 2									

¹ Valid for wall panel made from timber frame with studs 60/160 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 Reaction to fire classification is valid for following end use conditions: product with a closed or an open air gap not more than 22mm behind the product. The reverse face of the cavity shall be at least class A2-s1,d0 products with minimum density 10 kg/m³.

³ Reaction to fire classification is valid for following end use conditions: product without substrate or fixed directly on any substrate of reaction to fire class at least D-s1,d0.

8. The performance of the product identified in point 1 is in conformity with the declared performance in point 7.

This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 3.

Signed for and on behalf of the manufacturer by:

.....  Janina Mitrofanova
Member of the Board

.....  Ivars Plaudis
Technical Director / Procurist

Riga, 28.03.2019