11 Appendices

11.1 Declaration of Performance of the Testing Specimen

Declaration of performance acc. Regulation EU No. 305/2011 (CPR)
No. OSB3-CPR-2013-07-01-8 - OSB 3 ECO

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DECLARATION OF PERFORMANCE
No. OSB3-CPR-2013-07-01-8

1. Unique identification code of the product-type:
   OSB 3 ECO

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 Riga"
   Daugavgrivas soseja 7B, LV-1016, Riga, 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/mm²]	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	

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1			2	3	4	5	6
Stiffness (MOE) acc. EN 12369-1 [N/mm²]	Bending E_m	Major axis (0)	4930			NPD	EN 13986:2004 + A1:2015
		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			NPD				
Impact resistance			Pass				
Reaction to fire acc. EN 13501-1			class D-s2,d0[1] for th. 9 till 30 mm class D-s1,d0[2] 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			NPD				
Sound absorption acc. EN 13986, Tab.10			NPD				
Thermal conductivity (density) acc. EN 12664			NPD				
Embedment strength			NPD				
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] 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.

[2] 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, 16.04.2018