

## DECLARATION OF PERFORMANCE No. OSB3-CPR-2013-07-01-10

- Unique identification code of the product-type:  
**OSB 3 unsanded**
- 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)**
- Name and contact address of the manufacturer:  
**SIA “KRONOSPAN Rīga”  
Daugavgrīvas soseja 7B, LV-1016, Rīga, Latvia  
Business ID 40 003 774 690  
www.kronospan-express.com**
- System of assessment and verification of constancy of performance:  
**System 2+**
- Harmonised standard:  
**EN 13986:2004 + A1:2015**
- 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.<br>EN 12369-1<br>[N/mm <sup>2</sup> ] | Bending f <sub>m</sub>      | Major axis (0)  | 18,0                   | 16,4      | 14,8      | NPD       | EN<br>13986:2004+<br>A1:2015       |
|                                                     |                             | Minor axis (90) | 9,0                    | 8,2       | 7,4       | NPD       |                                    |
|                                                     | Tension f <sub>t</sub>      | Major axis (0)  | 9,9                    | 9,4       | 9,0       | NPD       |                                    |
|                                                     |                             | Minor axis (90) | 7,2                    | 7,0       | 6,8       | NPD       |                                    |
|                                                     | Compression f <sub>c</sub>  | Major axis (0)  | 15,9                   | 15,4      | 14,8      | NPD       |                                    |
|                                                     |                             | Minor axis (90) | 12,9                   | 12,7      | 12,4      | NPD       |                                    |
|                                                     | Panel shear f <sub>v</sub>  |                 | 6,8                    | 6,8       | 6,8       | NPD       |                                    |
|                                                     | Planar shear f <sub>r</sub> |                 | 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<br>(MOE) acc.<br>EN 12369-1<br>[N/mm <sup>2</sup> ]  | Bending E <sub>m</sub>                                             | Major axis (0)                                                 |                                                                                                            |                | 4930           |                  |                 |                    | NPD       |     |   |  |  |
|                                                                |                                                                    | Minor axis (90)                                                |                                                                                                            |                | 1980           |                  |                 |                    | NPD       |     |   |  |  |
|                                                                | Tension E <sub>t</sub>                                             | Major axis (0)                                                 |                                                                                                            |                | 3800           |                  |                 |                    | NPD       |     |   |  |  |
|                                                                |                                                                    | Minor axis (90)                                                |                                                                                                            |                | 3000           |                  |                 |                    | NPD       |     |   |  |  |
|                                                                | Compression E <sub>c</sub>                                         | Major axis (0)                                                 |                                                                                                            |                | 3800           |                  |                 |                    | NPD       |     |   |  |  |
|                                                                |                                                                    | Minor axis (90)                                                |                                                                                                            |                | 3000           |                  |                 |                    | NPD       |     |   |  |  |
|                                                                |                                                                    | Panel shear G <sub>v</sub>                                     |                                                                                                            |                |                | 1080             |                 |                    |           | NPD |   |  |  |
|                                                                |                                                                    | Planar shear G <sub>r</sub>                                    |                                                                                                            |                |                | 50               |                 |                    |           | NPD |   |  |  |
| Punching shear as point load strength and point load stiffness |                                                                    |                                                                | NPD                                                                                                        |                |                |                  |                 |                    |           |     |   |  |  |
| Racking resistance<br>acc. EN 1995-1-1 <sup>1</sup>            | board thickness [mm]                                               |                                                                | 11                                                                                                         | 12             | 15             | 16               | 18              | 22                 | 25        |     |   |  |  |
|                                                                | Char.value F <sub>i,v,Rk</sub> [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 <sup>2</sup> for th. 9 till 30 mm<br>class D-s1,d0 <sup>3</sup> 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                        |                                                                    |                                                                | $R [dB] = 13 \times lg (m_A) + 14$<br>(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)<br>$\alpha = 0,25$ (frequency range 1000 Hz to 2000 Hz) |                |                |                  |                 |                    |           |     |   |  |  |
| Thermal conductivity (density) acc. EN 12664                   |                                                                    |                                                                | $\lambda = 0,1 \text{ W / m} \cdot \text{K}$                                                               |                |                |                  |                 |                    |           |     |   |  |  |
| 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 <sub>mod</sub> 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 <sub>def</sub> acc. EN 1995-1-1, tab. 3.2    |                                                                | k <sub>def</sub> = 1,50 (service class 1)<br>k <sub>def</sub> = 2,25 (service class 2)                     |                |                |                  |                 |                    |           |     |   |  |  |
|                                                                | Biological durability acc. EN335                                   |                                                                |                                                                                                            | use class 2    |                |                  |                 |                    |           |     |   |  |  |

EN 13986:2004 + A1:2015

<sup>1</sup> 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).

<sup>2</sup> 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/m<sup>3</sup>.

<sup>3</sup> 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