

## Declaration of Performance

**KDE\_OSB-3\_CPR\_2016\_039**

- English Version -

1. Unique identification code of the product type:

SWISS KRONO OSB/3 EN300 8 mm  
SWISS KRONO OSB/3 EN300 9 mm  
SWISS KRONO OSB/3 EN300 10 mm  
SWISS KRONO OSB/3 EN300 12 mm  
SWISS KRONO OSB/3 EN300 15 mm  
SWISS KRONO OSB/3 EN300 18 mm  
SWISS KRONO OSB/3 EN300 22 mm  
SWISS KRONO OSB/3 EN300 25 mm  
SWISS KRONO OSB/3 EN300 30 mm  
SWISS KRONO OSB/3 EN300 40 mm

(Special thicknesses on request): SWISS KRONO OSB/3 EN300 11 mm SWISS KRONO OSB/3 EN300 13 mm SWISS KRONO OSB/3 EN300 14 mm SWISS KRONO OSB/3 EN300 16 mm SWISS KRONO OSB/3 EN300 17 mm SWISS KRONO OSB/3 EN300 19 mm SWISS KRONO OSB/3 EN300 20 mm SWISS KRONO OSB/3 EN300 21 mm SWISS KRONO OSB/3 EN300 23 mm SWISS KRONO OSB/3 EN300 24 mm SWISS KRONO OSB/3 EN300 27 mm
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2. Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer:

**Load-bearing boards for use in humid conditions**

3. Name, registered trade name or trademark and contact address of the manufacturer as required under Article 11(5)

SWISS KRONO GmbH  
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16909 Heiligengrabe  
Germany  
Tel.: +49(0)33962/69-740  
Email: info@kronoply.de  
Web: www.swisskrono.de

4. System or systems for assessing and verifying constancy of performance of the construction product as set out in CPR, Annex V: **System 2+**

5. In case the declaration of performance concerns a construction product covered by a harmonised standard:

**HFB Engineering GmbH, Zschortauer Strasse 42, 04129 Leipzig, Germany - notified body no. 1034.**

6. Declared performance:

Essential characteristics	Performance	Harmonised technical specification
Characteristics	Performance	DIN EN 13986:2004 +A1:2015
	Thickness range (mm)	
	6 to 10	> 10 to < 18
		18 to 25
		> 25 to 32
		> 32 to 40
Bending strength	Bending strength - major axis	Technical class OSB/3 acc. to EN 300
	Bending strength - minor axis	Technical class OSB/3 acc. to EN 300
Bending strength (E-modulus)	Modulus of elasticity in bending - major axis	Technical class OSB/3 acc. to EN 300
	Modulus of elasticity in bending - minor axis	Technical class OSB/3 acc. to EN 300
Durability (swelling in thickness)	Thickness swelling after immersion for 24 h (%)	≤ 15
Durability (moisture resistance)	Internal bond after cyclic test (N/mm <sup>2</sup> )	≥ 0.15
Formaldehyde release	E1 (100 % formaldehyde free binders)	≥ 0.13
Reaction to fire	Min. thickness (mm)	Class (flooring) <sup>h</sup>
	Without gap behind OSB <sup>a b e f</sup>	D <sub>fl,s1</sub>
	With closed or open air gap no wider than 22 mm behind OSB <sup>c e f</sup>	-
	With closed air gap behind OSB <sup>d e f</sup>	D <sub>fl,s1</sub>
	With open air gap behind OSB <sup>d e f</sup>	D <sub>fl,s1</sub>
	Without limitations <sup>e f</sup>	E <sub>fl</sub>
	<sup>a</sup> Installed without air gap directly on products of class A1 or A2-s1, d0 with a bulk density of at least 10 kg/m <sup>3</sup> or products of class D-s2, d2 with a bulk density of at least 400 kg/m <sup>3</sup> .	
	<sup>b</sup> A substrate consisting of thermally insulating cellulose of class E or better may be included if it is installed directly behind the wood-based material; however, this does not apply to floor coverings.	
	<sup>c</sup> Installed with air gap behind it. The product on the other side of the air gap must be of class A2-s1, d0 or better with a bulk density of at least 10 kg/m <sup>3</sup> .	

Water vapour permeability value ( $\mu$ )	<p><sup>d</sup> Installed with air gap behind it. The product on the other side of the air gap must be of class D-s2, d2 or better with a bulk density of at least 400 kg/m<sup>3</sup>.</p> <p><sup>e</sup> This class also applies, with the exception of floor coverings, to laminated and both phenolic and melamine resin-coated boards.</p> <p><sup>f</sup> A vapour barrier at least 0.4 mm thick with a density of up to 22 g/m<sup>2</sup> may be installed between the wood-based material and the substrate if there is no air gap between them.</p> <p><sup>g</sup> Class according to Table 1 of the annex to Decision 2000/147/EC.</p> <p><sup>h</sup> Class according to Table 2 of the annex to Decision 2000/147/EC.</p>									
	200 (moist) / 300 (dry)									
Airborne sound	Frequency range 1 kHz to 3 kHz		Frequency range 1 kHz to 3 kHz		Frequency range 1 kHz to 3 kHz		Frequency range 1 kHz to 3 kHz			
	Thickness (mm)	R (dB)	Thickness (mm)	R (dB)	Thickness (mm)	R (dB)	Thickness (mm)	R (dB)	Thickness (mm)	R (dB)
	10	24	16 to 18	27	31 to 36	31	37 to 40	32		
	11	25	19 to 21	28						
	12	25	22 to 25	29						
	13 to 15	26	26 to 30	30						
Sound absorption	Frequency range 250 Hz to 500 Hz				Frequency range 1000 Hz to 2000 Hz					
	0.10 dB				0.25 dB					
Thermal conductivity	0.13 W/mK									
Strength and stiffness for load bearing use	Bulk density (kg/m <sup>3</sup> ) and characteristic strength values (N/mm <sup>2</sup> ) for calculating and designing timber structures acc. to EN 12369-1									
	Thickness (mm)	Bulk density	Bending	Tensile force	Compression	Shear perpendicular to the board plane	Shear in the board plane			
	$t_{min}$	$\rho$	$f_m$	$f_t$	$f_c$	$f_v$	$f_r$			
			0 90	0 90	0 90					
	> 6 to 10	≥ 600	18.0 9.0	9.9 7.2	15.9 12.9	6.8	1.0			
> 10 to 18	≥ 600	16.4 8.2	9.4 7.0	15.4 12.7	6.8	1.0				
> 18 to 25	≥ 600	14.8 7.4	9.0 6.8	14.8 12.4	6.8	1.0				

Thickness (mm)	Stiffness values (N/mm <sup>2</sup> )						Shear in the board plane
	Bending		Tensile force		Compression		
t <sub>min</sub>	f <sub>m</sub>		f <sub>t</sub>		f <sub>c</sub>		f <sub>v</sub>
	0	90	0	90	0	90	f <sub>r</sub>
> 6 to 10	4930	1980	3800	3000	3800	3000	1080
> 10 to 18	4930	1980	3800	3000	3800	3000	1080
> 18 to 25	4930	1980	3800	3000	3800	3000	1080
Modification factors for the duration of load and moisture content <b>k<sub>mod</sub></b>							
Load duration factor	Load duration factor		Service class				
			1	2			
	Constant		0.40		0.30		
	Long		0.50		0.40		
	Moderately long		0.70		0.55		
	Brief		0.90		0.70		
Very brief		1.10		0.90			
Values for calculating the deformation coefficients <b>k<sub>def</sub></b> under a constant or nearly constant load							
Service class							
1		2					
1.5		2.25					
Biological durability	NPD						
Pentachlorophenol content	No use of PCP-containing components						
Bracing load	NPD						
Embedding strength	NPD						



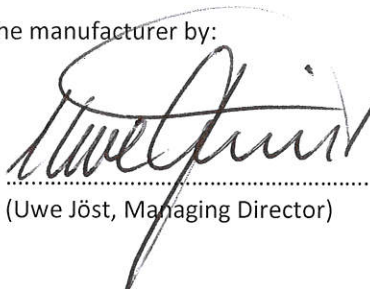
7. The product's performance as declared in section 1 of this document corresponds to the performance as declared in section 6.

The manufacturer given in section 3 takes full responsibility for preparing this declaration of performance.

Signed for the manufacturer and on behalf of the manufacturer by:



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(Hendrik Hecht, Managing Director)



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(Uwe Jöst, Managing Director)

Heiligengrabe, 07.03.2016

(Place and date of issue)