

Declaration of Performance

KDE_OSB-2_CPR_2016_042

- English Version -

1. Unique identification code of the product type:

SWISS KRONO OSB/2 EN300 8 mm
SWISS KRONO OSB/2 EN300 9 mm
SWISS KRONO OSB/2 EN300 10 mm
SWISS KRONO OSB/2 EN300 12 mm
SWISS KRONO OSB/2 EN300 15 mm
SWISS KRONO OSB/2 EN300 18 mm
SWISS KRONO OSB/2 EN300 22 mm
SWISS KRONO OSB/2 EN300 25 mm

(Special thicknesses on request):

SWISS KRONO OSB/2 EN300 11 mm
SWISS KRONO OSB/2 EN300 13 mm
SWISS KRONO OSB/2 EN300 14 mm
SWISS KRONO OSB/2 EN300 16 mm
SWISS KRONO OSB/2 EN300 17 mm
SWISS KRONO OSB/2 EN300 19 mm
SWISS KRONO OSB/2 EN300 20 mm
SWISS KRONO OSB/2 EN300 21 mm
SWISS KRONO OSB/2 EN300 23 mm
SWISS KRONO OSB/2 EN300 24 mm

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 dry conditions
3. Name, registered trade name or trademark and contact address of the manufacturer as required under Article 11(5)
- SWISS KRONO GmbH
Wittstocker Chaussee 1
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							Harmonised technical specification	
Characteristics		Performance						DIN EN 13986:2004 +A1:2015
			Thickness range (mm)					
			6 to 10	> 10 to < 18	18 to 25			
Bending strength		Bending strength	Technical class OSB/2 acc. to EN 300					
Bending strength (E-modulus)		Modulus of elasticity in bending	Technical class OSB/2 acc. to EN 300					
Durability (swelling in thickness)		Thickness swelling after immersion for 24 h (%)	≤ 20	≤ 20	≤ 20			
Durability (moisture resistance)		NPD						
Formaldehyde release		E1 (100% formaldehyde free binders)						
Reaction to fire			Min. thickness (mm)	Class (without flooring) ^g	Class (flooring) ^h			
		Without gap behind OSB ^{a b e f}	9	D-s2,d0	D _{fl,s1}			
		With closed or open air gap no wider than 22 mm behind OSB ^{c e f}	9	D-s2,d2	-			
		With closed air gap behind OSB ^{d e f}	15	D-s2,d0	D _{fl,s1}			
		With open air gap behind OSB ^{d e f}	18	D-s2,d0	D _{fl,s1}			
		Without limitations ^{e f}	3	E	E _{fl}			
^a Installed without air gap directly on products of class A1 or A2-s1, d0 with a bulk density of at least 10 kg/m³ or products of class D-s2, d2 with a bulk density of at least 400 kg/m³.								
^b 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.								
^c 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/m³.								

Water vapour permeability value (μ)	^d 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/m³.											
	^e This class also applies, with the exception of floor coverings, to laminated and both phenolic and melamine resin-coated boards.											
	^f A vapour barrier at least 0.4 mm thick with a density of up to 22 g/m² may be installed between the wood-based material and the substrate if there is no air gap between them.											
	^g Class according to Table 1 of the annex to Decision 2000/147/EC.											
	^h Class according to Table 2 of the annex to Decision 2000/147/EC.											
Airborne sound	NPD											
	Frequency range 1 kHz to 3 kHz		Frequency range 1 kHz to 3 kHz									
	Thickness (mm)	R (dB)	Thickness (mm)	R (dB)								
	10	24	16 to 18	27								
	11	25	19 to 21	28								
	12	25	22 to 25	29								
	13 to 15	26										
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	Thickness (mm)	Bulk density (kg/m³) and characteristic strength values (N/mm²) for calculating and designing timber structures acc. to EN 12369-1										
	t _{min}	Bulk density	Bending	Tensile force		Compression		Shear perpendicular to the board plane		Shear in the board plane		
		ρ	f _m	f _t		f _c		f _v		f _r		
			0 90	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 ²)							
t _{min}	Bending		Tensile force		Compression		Shear perpendicular to the board plane	Shear in the board plane	
	f _m		f _t		f _c		f _v	f _r	
		0	90	0	90	0	90		
> 6 to 10		4930	1980	3800	3000	3800	1080	50	
> 10 to 18		4930	1980	3800	3000	3800	1080	50	
> 18 to 25		4930	1980	3800	3000	3800	1080	50	
Load duration factor	Modification factors for the duration of load and moisture content k _{mod}								
	Load duration factor			Service class					
				1					
	Constant			0.30					
	Long			0.45					
	Moderately long			0.65					
	Brief			0.85					
	Very brief			1.10					
	Values for calculating the deformation coefficients k _{def} under a constant or nearly constant load								
	Service class								
1									
1.5									
Biological durability	NPD								
Pentachlorophenol content	No use of PCP-containing components								
Bracing load	NPD								
Embedding strength	NPD								

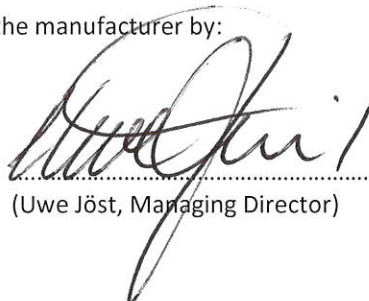
7. The product's performance as declared in section 1 of this document corresponds to the performance as declared in section 6.

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:



.....
(Hendrik Hecht, Managing Director)



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(Uwe Jöst, Managing Director)

Heiligengrabe, 07.03.2016

(Place and date of issue)