

Declaration of Performance

SKDE_OSB-3-SF_CPR_2023_060

- English Version -

1. Unique identification code of the product type:
 - SWISS KRONO OSB/3 stop fire 12 mm**
 - SWISS KRONO OSB/3 stop fire 15 mm**
 - SWISS KRONO OSB/3 stop fire 18 mm**
 - SWISS KRONO OSB/3 stop fire 22 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 humid conditions**

3. Name, registered trade name or trademark and contact address of the manufacturer as required under Article 11(5)
 - SWISS KRONO TEX GmbH & Co. KG**
 - Wittstocker Chaussee 1**
 - 16909 Heiligengrabe**
 - Germany**
 - Tel.: +49(0)33962/69-740**
 - Email: dehe.sales.osb@swisskrono.com**
 - Web: www.swisskrono.com**

4. System or systems for assessing and verifying constancy of performance of the construction product as set out in CPR, Annex V: **System 1**

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						EN 13986:2015-06
	Thickness range t (mm)						
			12 to < 18	18 to 22			
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	≤ 15			
Durability (moisture resistance)	Bending strength after cyclic test - major axis (N/mm ²)		8	7			
Formaldehyde release	E1 (100 % formaldehyde free binders)						
Reaction to fire acc. to EN 13501-1	C-s2, d0 (fire retardant) - (after reaching the equilibrium moisture content)						
Water vapour permeability	Thickness range d (mm)		12 to 22				
	sd-value (m) = (μ x d [m]) - dry		≥ 2.0 m				
Airborne sound	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)	
	12	25	16 to 18	27	22 to 25	29	
	13 to 15	26	19 to 21	28			
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						
Bracing load	Acc. to EN 1995-1-1, Ch. 9.2						
Embedding strength	Acc. to EN 1995-1-1, Ch. 8						

Strength and stiffness for load bearing use	Thickness (mm)		Bulk density (kg/m ³) and characteristic strength values (N/mm ²) for calculating and designing timber structures acc. to EN 12369-1							
		Bulk density	Bending		Tensile force		Compression		Shear perpendicular to the board plane	Shear in the board plane
	t _{min}	ρ	f _m		f _t		f _c		f _v	f _r
			0	90	0	90	0	90		
	> 10 to 18	700	16.4	8.2	9.4	7.0	15.4	12.7	6.8	1.0
	> 18 to 22	700	14.8	7.4	9.0	6.8	14.8	12.4	6.8	1.0
	Thickness (mm)		Stiffness values (N/mm ²)							
		Bending		Tensile force		Compression		Shear perpendicular to the board plane		Shear in the board plane
	t _{min}	E _m		E _t		E _c		G _v		G _r
		0	90	0	90	0	90			
> 10 to 18	4930	1980	3800	3000	3800	3000	1080		50	
> 18 to 22	4930	1980	3800	3000	3800	3000	1080		50	
Load duration factor	Modification factors for the duration of load and moisture content					Values for calculating the deformation coefficients k _{def} under a constant or nearly constant load				
	k _{mod}									
	Load duration factor			Service class						
				1	2	Service class				
	Constant			0.40	0.30	1		2		
	Long			0.50	0.40	1.5		2.25		
	Moderately long			0.70	0.55					
	Brief			0.90	0.70					
Very brief			1.10	0.90						
Biological durability	NPD									
Pentachlorophenol content	No use of PCP-containing components									
Air tightness	≤ 0,12 m ³ /m ² h									

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:

A handwritten signature in blue ink, appearing to be 'RS', written over a dotted line.

(Robert Schneider, Managing Director)

A handwritten signature in blue ink, appearing to be 'D. Zahl', written over a dotted line.

(Daniel Zahl, Sales Director OSB, MDF)

Heiligengrabe, 15.02.2023

(Place and date of issue)