

**DECLARATION OF PERFORMANCE  
SKHU\_OSB/4\_CPR\_001**

in accordance to Regulation (EU) No 305/2011 of the European Parliament and of the Council of 9 of March 2011 laying down harmonized conditions for the marketing of construction products and repealing Council Directive 89/106/EEC

1. Unique identification code of the product-type:

**SWISS KRONO OSB/4, 12 – 22 mm**

2. Intended use:

**Heavy duty load-bearing boards for use in humid conditions**

3. Manufacturer:

**SWISS KRONO Kft.  
Ipar utca 1,  
4800 Vásárosnamény  
Hungary  
Tel.: +36 45 57 11 31  
E-mail: [huva.info@swisskrono.com](mailto:huva.info@swisskrono.com)  
Web: [www.swisskrono.com](http://www.swisskrono.com)**

4. Authorised representative:

**Not applicable**

5. System of AVCP:

**System 2+**

6. Harmonised standard:

**EN 13986:2004+A1:2015**

7. Notified body:

**WKI – Wilhelm Klauditz Institut für Holzforschung  
Riedenkamp 3  
38108 Braunschweig  
Germany  
Nr. 0765**

8. Declared performances:

Essential characteristics		Performance					
Strength and stiffness for structural use Thickness range (mm)		> 10 - 18			> 18 - 25		
Orientation		0°	90°	0°	90°		
• Characteristic strength (N/mm <sup>2</sup> )							
Bending $f_m$		23,0	12,2	21,0	11,4		
Tensile force $f_t$		11,4	8,2	10,9	8,0		
Compression $f_c$		17,6	14,0	17,0	13,7		
Push perpendicular to the board plane $f_v$		6,9					
Push in the board plane $f_r$		1,1					
• Average resilience (N/mm <sup>2</sup> )							
Bending $E_m$		6780	2680	6780	2680		
Tensile force $E_t$		4300	3200	4300	3200		
Compression $E_c$		4300	3200	4300	3200		
Push perpendicular to the board plane $G_v$		1090					
Push in the board plane $G_r$		60					
Thickness range (mm)		> 10 < 18			18 - 25		
Internal bond (N/mm <sup>2</sup> )		0,45			0,40		
Durability (swelling in thickness) (%)		≤ 12					
Durability (moisture resistance) (N/mm <sup>2</sup> ) Bending strength after cyclic test		14			13		
Formaldehyde emission		E1 (100% formaldehyde free resin)					
Content of pentachlorophenol (ppm)		< 5					
Water vapour permeability	Thickness range d (mm)	12 - 25					
	Sd-Value (m) = ( $\mu \times d[m]$ ) - dry	≥ 2,0 m					
Airborne sound insulation		NPD					
Sound absorption	250 Hz – 500 Hz	0,10					
	1000 Hz – 2000 Hz	0,25					
Thermal conductivity (W/(m•K))		0,13					
Mechanical durability							
• Modifying coefficients of strength $k_{mod}$							
Load duration class:		Service class	Constant	Long	Moderately long	Brief	Very brief
		1	0,40	0,50	0,70	0,90	1,10
		2	0,30	0,40	0,55	0,70	0,90
• Modifying coefficients of deformation $k_{def}$		1	1,50				
		2	2,25				
Biological durability		NPD					
Bracing load		Acc. to EN 1995-1-1, Ch. 9.2					
Embedding strength		Acc. to EN 1995-1-1, Ch. 8					

## Point 8. continuation

Essential characteristics	Performance		
	Class		
Reaction to fire / Application	Min.Thickness (mm)	Class (without flooring) <sup>g</sup> (without flooring) <sup>g</sup>	Class (flooring) <sup>h</sup> (flooring) <sup>h</sup>
Without an air gap behind the wood-based panel <sup>a b e f</sup>	9	D-s2, d0	D <sub>fl</sub> , s1
With a closed or an open air gap not more than 22mm behind the wood-based panel <sup>c e f</sup>	9	D-s2, d2	-
With a closed air gap behind the wood-based panel <sup>d e f</sup>	15	D-s2, d0	D <sub>fl</sub> , s1
With an open air gap behind the wood-based panel <sup>d e f</sup>	18	D-s2, d0	D <sub>fl</sub> , s1
Any <sup>e f</sup>	3	E	E <sub>fl</sub>
<sup>a</sup> Mounted without an air gap directly against class A1 or A2-s1, d0 products with minimum density 10 kg/m <sup>3</sup> or at least class D-s2, d2 products with minimum density 400 kg/m <sup>3</sup> . <sup>b</sup> A substrate of cellulose insulation material of at least class E may be included if mounted directly against the wood-based panel, but not for floorings. <sup>c</sup> Built in with an air gap behind. 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>d</sup> Built in with an air gap behind. The reverse face of the cavity shall be at least class D-s2, d2 products with minimum density 400 kg/m <sup>3</sup> . <sup>e</sup> Veneered, phenol- and melamine-faced panels are included for class excl. floorings. <sup>f</sup> A vapour barrier with a thickness up to 0,4 mm and a mass up to 200 g/m <sup>2</sup> can be mounted in between the wood-based panel and a substrate if there are no air gaps in between. <sup>g</sup> Class as provided for in Table 1 of the Annex to Decision 2000/147/EC. <sup>h</sup> Class as provided for in Table 2 of the Annex to Decision 2000/147/EC.			
NPD: No Performance Determined.			

The performance of the product identified above is in conformity with the set of declared performance/s. This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:



Jakub Maciołek  
Technical director



Okszana Tivadar  
Quality Manager