

CE DECLARATION OF PERFORMANCE

according to Regulation (EU) No. 305 of the European Parliament and the Council of 9 March 2011

DOP no.	DOP-700-00
1 Unique product identification code:	700 (recipe no.) 6 to 25 mm (panel thickness)
2 Use:	Structural or load-bearing components for indoor use in dry conditions
3 Name and Manufacturer Registered trade name or registered brand and contact address of the manufacturer:	EGGER OSB 2 E0 EGGER Holzwerkstoffe Wismar GmbH & Co KG Am Haffeld 1 D-23970 Wismar web: www.egger.com
4 not applicable	
5 System for the assessment and verification of constancy of performance of the building product:	System 2+
6 Harmonized standard	EN 13986:2004+A1:2015
Notified body:	no. 0765 Wilhelm-Klauditz-Institut (WKI) Bienroder Weg 54 e D-38108 Braunschweig

7 Declared performance:

Specification		unit	Panel thickness [mm]						
			> 6 - 10	> 10 - <18	18 - 25	> 25 - 32	>32 - 40		
Bending strength	acc. to EN 310 - 0° major axis o°	N/mm ²	≥ 22	≥ 20	≥ 18			Technical class OSB/2 acc.to EN 300	
	acc. to EN 310 – 90° minor axis	N/mm ²	≥ 11	≥ 10	≥ 9				
Modulus of Elasticity	acc. to EN 310 - 0° major axis o°	N/mm ²	≥ 3500	≥ 3500	≥ 3500				
	acc. to EN 310– 90° minor axis	N/mm ²	≥ 1400	≥ 1400	≥ 1400				
Essential characteristics		unit	Panel thickness [mm]					Harmonized technical specification	
Durability	thickness swelling 24h	%	≤ 20					EN 13986:2004+A1:2015	
	internal bond	N/mm ²	≥ 0,34	≥ 0,32	≥ 0,30				
	mechanical		k _{def}	k _{mod} permanent	k _{mod} long	k _{mod} medium	k _{mod} short		k _{mod} instantaneous
		SC1	2,25	0,30	0,45	0,65	0,85		1,10
	biological (use class)		GK 1 & 2						
Release of Formaldehyde	acc. to EN 717-1	ppm	< 0,03 (no added formaldehyde) - emission class E1						
Release of PCP		ppm	< 3,0						
Density		kg/m ³	≥ 580 kg/m ³						
Water vapour permeability	diffusion resistance factor μ (dry)	-	100						
Thermal conductivity		W/mK	0,13						
Airborne sound insulation	sound absorption coefficient	-	0,10 / 0,25 (frequency range 250 - 500 Hz / 1000-2000 Hz)						
	sound insulation R	dB	R = 14 * lg(m _A) + 13 (area mass related m _A , frequency range 1 to 3 kHz)						
Air permeability	acc. to EN 12114 (at 50Pa pressure difference)	m/(m ² * h)	NPD						
Reaction to fire *)		class	Minimum density [kg/m ³]	Minimum thickness [mm]					
	without air gap behind OSB a,b,e,f	D-s1, d0	580	12 mm					
	without restriction e,f	E		3 mm					

Essential characteristics		unit	panel thickness [mm]				Harmonized technical specification	
			> 6 - 10	> 10 - <18	18 - 25			
Characteristic strength							EN 13986:2004+A1:2015	
Bending f_m	0° - major axis	N/mm ²	18,0	16,4	14,8			
	90° - minor axis	N/mm ²	9,0	8,2	7,4			
Tension f_t	0° - major axis	N/mm ²	9,9	9,4	9,0			
	90° - minor axis	N/mm ²	7,2	7,0	6,8			
Compression f_c	0° - major axis	N/mm ²	15,9	15,4	14,8			
	90° - minor axis	N/mm ²	12,9	12,7	12,4			
	0° - major axis / 90° - minor axis	N/mm ²	6,8	6,8	6,8			
Shear $f_v \perp$ panel surface	0° - major axis / 90° - minor axis	N/mm ²	1,0	1,0	1,0			
Shear f_r in panel surface	0° - major axis / 90° - minor axis	N/mm ²	1,0	1,0	1,0			
Mean stiffness								
Bending E_m	0° - major axis	N/mm ²	4930	4930	4930			
	90° - minor axis	N/mm ²	1980	1980	1980			
Tension E_t	0° - major axis	N/mm ²	3800	3800	3800			
	90° - minor axis	N/mm ²	3000	3000	3000			
Compression E_c	0° - major axis	N/mm ²	3800	3800	3800			
	90° - minor axis	N/mm ²	3000	3000	3000			
Shear $G_v \perp$ panel surface	0° - major axis / 90° - minor axis	N/mm ²	1080	1080	1080			
Shear G_r in panel surface	0° - major axis / 90° - minor axis	N/mm ²	50	50	50			
Impact resistance		N/mm ²	NPD	NPD	NPD			
Embedding strength		N/mm ²	EN 1995-1-1, Abs. 8					
Racking resistance		N/mm ²	EN 1995-1-1					
Performance wall EN 12871	soft body impact acc. to EN 596	-	Pass					
	panel thickness	mm	≥ 12 mm					
Performance Floor EN 12871	load category	-		A	A			
	panel thickness	mm		≥ 15	≥ 18			
	cc-span	mm		≤ 410	≤ 625			
Performance roof EN 12871 (major axis, 0°)	load category	-	NPD					
	panel thickness	mm						
	cc-span	mm						

8 not applicable

The product performance according to number 1 corresponds to the declared performance according to number 7. Solely the manufacturer is responsible for drafting the declaration of performance according to number 3.

Signed for and in the name of the manufacturer by:

A handwritten signature in blue ink that reads "Thomas Schlund".

Thomas Schlund

EGGER Building Products - Head of Division
Technology/Production

Wismar, 18.10.2016

*) Note:

- a Without air gap installed directly on products in classes A1 or A2-s1, d0 with a minimum raw density of 10 kg/m³ or at least products of class D-s2, d2 with a minimum raw density of 400 kg/m³.
- b An underlayment made of cellulose thermal insulation material of at least class E may be used if installed directly behind the wood-based material; however, this does not apply to flooring.
- c Installed with air gap behind, the product bordering with its rear side the empty space must correspond at least to class A2-s1,d0 with a minimum raw density of 10 kg/m³.
- d Installed with air gap behind, the product bordering with its rear side the empty space must correspond at least to class D-s2,d2 with a minimum raw density of 400 kg/m³.
- e With the exception of flooring, the class also corresponds to veneered, phenol and melamine-faced boards.
- f A vapour barrier with a thickness of up to 0.4 mm and a mass of up to 200 g/m² may be installed between the wood-based material and the underlayment if there is no air gap in between.