CE DECLARATION OF PERFORMANCE

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

	DOP no.	**DOP-745-00**
1	**Unique product identification code:**	**745** (recipe no.) **8 to 40 mm** (panel thickness)
2	**Use:**	**Structural or load-bearing components for indoor use in dry and humid conditions**
3	**Name and Manufacturer** Registered trade name or registered brand and contact address of the manufacturer:	**EGGER OSB 4 TOP** **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-Institute (WKI)** Bienroder Weg 54 e D-38108 Braunschweig

7 Declared performance:

Specification		unit	Panel thickness [mm] › 8 - 10	› 10 - ‹18	18 - 25	› 25 - 30	›30 - 40	
Bending strength	acc. to EN 310 - 0° major axis o°	N/mm²	≥ 36	≥ 33	≥ 31	≥ 29	≥ 25	
	acc. to EN 310 – 90° minor axis	N/mm²	≥ 23	≥ 20	≥ 18	≥ 16	≥ 15	
Modulus of Elasticity	acc. to EN 310 - 0° major axis o°	N/mm²	≥ 5600	≥ 5300	≥ 5200	≥ 5000	≥ 4800	
	acc. to EN 310– 90° minor axis	N/mm²	≥ 2700	≥ 2500	≥ 2300	≥ 2100	≥ 1900	

Essential characteristics		unit	Panel thickness [mm] › 8 - 10	› 10 - ‹18	18 - 25	› 25 - 30	›30 - 40	Harmonized technical specification
Durability	thickness swelling 24h	%	≤ 12	≤ 10	≤ 10	≤ 10	≤ 10	EN 13986:2004+A1:2015
	Internal bond - option 1	N/mm²	≥ 0,17	≥ 0,16	≥ 0,13	≥ 0,10	≥ 0,08	
	bending - major axis - option 1	N/mm²						
	mechanical		k_{def}	k_{mod} permanent	k_{mod} long	k_{mod} medium	k_{mod} short	k_{mod} instantenous
		SC1	1,50	0,40	0,50	0,70	0,90	1,10
		SC2	2,25	0,30	0,40	0,55	0,70	0,90
	biological (use class)		UC 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/m³	≥ 640	≥ 620	≥ 620	≥ 600	≥ 600	
Water vapour permeability	μ (dry / wet)	-	200 / 200					
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/(m² * h)	≤ 0,12					
Reaction to fire *)		**class**	**class floor covering**	**Minimum thickness [mm]**				
	without air gap behind OSB a,b,e,f	D-s2, d0	$D_{fl,s1}$	9mm				
	with closed air gap or open air gap ≤ 22mm behind OSB c,e,f	D-s2, d0	-	9mm				
	with closed air gap behind OSB d,e,f	D-s2, d0	$D_{fl,s1}$	15mm				
	with open air gap behind OSB d,e,f	D-s2, d0	$D_{fl,s1}$	18mm				
	without restriction e,f	E	E_{fl}	3mm				

Essential characteristics		Einheit	Panel thickness [mm] › 6 - 10	› 10 - ‹18	20 - 25	› 25 - 32	›32 - 40	Harmonized technical specification
Characteristic Strength								
Bending f_m	0° - major axis	N/mm²	25	25	25	25	20	EN 13986:2004+A1:2015
	90° - minor axis	N/mm²	15	15	15	15	15	
Tension f_t	0° - major axis	N/mm²	12	12	12	12	10	
	90° - minor axis	N/mm²	10	10	10	10	10	
Compression f_c	0° - major axis	N/mm²	19	19	19	17	15	
	90° - minor axis	N/mm²	16	16	16	15	14	
Shear f_v ⊥ panel surface	0° - major axis / 90° - minor axis	N/mm²	10	10	10	10	10	
Shear f_r in panel surface	0° - major axis / 90° - minor axis	N/mm²	9	9	9	8	6	
Bending f_m	0° - major axis	N/mm²	1,6	1,6	1,6	1,6	1,6	
Mean stiffness values								
Bending E_m	0° - major axis	N/mm²	7000	7000	7000	7000	6000	
	90° - minor axis	N/mm²	3000	3000	3000	3000	3000	
Tension E_t	0° - major axis	N/mm²	4300	4300	4300	4300	4000	
	90° - minor axis	N/mm²	3200	3200	3200	3200	3200	
Compression E_c	0° - major axis	N/mm²	4300	4300	4300	4300	4000	
	90° - minor axis	N/mm²	3200	3200	3200	3200	3200	
Shear G_v ⊥ panel surface	0° - major axis / 90° - minor axis	N/mm²	1500	1500	1500	1300	1200	
Shear G_r in in panel surface	0° - major axis / 90° - minor axis	N/mm²	160	160	160	160	160	
Impact resistance		N/mm²	NPD	NPD	NPD	NPD	NPD	
Embedding strength		N/mm²	EN 1995-1-1, paragraph 8					
Racking resistance		N/mm²	EN 1995-1-1					
Performance wall EN 12871	soft body impact acc. to EN 596	-	Pass					
	Panel thickness	mm	≥ 9					
Performance Floor EN 12871 (major axis, 0°)	load category	-		A	A	D / C3		
	panel thickness	mm		15	18 / 22	30 / 30		
	cc-span	mm		≤ 410	≤ 625	≤ 600/≤ 800		
Performance roof EN 12871 (major axis, 0°)	load category	-		H	H			
	panel thickness	mm		12 / 15	18/22			
	cc-span	mm		≤ 625	≤ 833			

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:

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.