
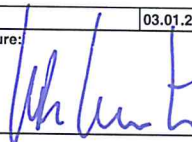


**Declaration of Performance according to Regulation (EU) No. 305/2011 of the European Parliament and Council of March 9, 2011**

Declaration of Performance No.		DoP-PB-51-200103					Replaces Version
1	Unique identification code of the product – type	Resin-bonded particleboard type P5 (esb)					DoP-PB-51-170102
2	Labelling for identification of building product acc. To article 11, paragraph 4:	P5 thickness 6-10	P5 thickness 10-13	P5 thickness 13-20	P5 thickness 20-25	P5 thickness 25-32	
3	Manufacturer's intended use or intended uses of building product in accordance with the applicable harmonized technical specification	Panels for interior application as load bearing members in humid conditions (interior or protected exterior areas)					
4	Name, registered trade name or registered trade mark and contact address of the manufacturer as requested under Article 11 (paragraph 5):	elka-Holzwerke GmbH Hochwaldstr. 44 D-54497 Morbach		Tel. +49-6533-956-0 info@elka-holzwerke.de www.elka-holzwerke.eu			
5	Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12 (paragraph 2):	Not named					
6	System or systems of assessment and verification of constancy of performance of the construction product referred to Annex V:	System 2+					
7	In case of the declaration of performance concerning a construction product covered by a harmonised standard.	The Qualitätsgemeinschaft Holzwerkstoffe e.V. as notified body no. 134 the initial inspection of the factory. The actual factory production quality control and the continuous surveillance, assessment and approval of factory production quality control is done by the (EPH 0766).					
8	In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued:	not applicable					
Declared performance		thickness >6 to 10 mm	thickness >10 to 13 mm	thickness >13 to 20 mm	thickness >20 to 25 mm	thickness >25 to 32 mm	Harmonised Technical Specifications
Bending strength		18,0 N/mm <sup>2</sup>	18,0 N/mm <sup>2</sup>	16,0 N/mm <sup>2</sup>	14,0 N/mm <sup>2</sup>	12,0 N/mm <sup>2</sup>	
Bending stiffness (modulus of elasticity)		2550 N/mm <sup>2</sup>	2550 N/mm <sup>2</sup>	2400 N/mm <sup>2</sup>	2150 N/mm <sup>2</sup>	1900 N/mm <sup>2</sup>	
Durability							
Bonding quality		NPD (2)	NPD (2)	NPD (2)	NPD (2)	NPD (2)	
Transverse tensile strength		0,45 N/mm <sup>2</sup>	0,45 N/mm <sup>2</sup>	0,45 N/mm <sup>2</sup>	0,40 N/mm <sup>2</sup>	0,35 N/mm <sup>2</sup>	
Durability (swelling)		13%	11%	10%	10%	10%	
Durability (moisture resistance option 2)		0,15 N/mm <sup>2</sup>	0,15 N/mm <sup>2</sup>	0,14 N/mm <sup>2</sup>	0,12 N/mm <sup>2</sup>	0,11 N/mm <sup>2</sup>	
mechanic		NPD (2)	NPD (2)	NPD (2)	NPD (2)	NPD (2)	
biological		NPD (2)	NPD (2)	NPD (2)	NPD (2)	NPD (2)	
Formaldehyde emission		E1E05	E1E05	E1E05	E1E05	E1E05	
Reaction to fire		D-s2,d0 (1)	D-s2,d0 (1)	D-s2,d0	D-s2,d0	D-s2,d0	
Water vapour permeability μ: (4)		Dry 80, Humid 40	Dry 80, Humid 40	Dry 80, Humid 40	Dry 80, Humid 40	Dry 80, Humid 40	
Airborne sound insulation: (4)		NPD (2)	NPD	NPD (2)	NPD (2)	NPD (2)	
Sound absorption coefficient: (4)		0,10 / 0,25	0,10 / 0,25	0,10 / 0,25	0,10 / 0,25	0,10 / 0,25	
Thermal conductivity λ: (4)		0,12 W/(mK)	0,12 W/(mK)	0,12 W/(mK)	0,12 W/(mK)	0,12 W/(mK)	
Hole-reveal-stability		NPD (2)	NPD (2)	NPD (2)	NPD (2)	NPD (2)	
Air permeability		NPD (2)	NPD (2)	NPD (2)	NPD (2)	NPD (2)	
Structural Strength: acc. DIN EN 12369-1:2001		thickness >6 to 13 mm		thickness >13 to 20 mm	thickness >20 to 25 mm	thickness >25 to 32 mm	
bending		15,0 N/mm <sup>2</sup>		13,3 N/mm <sup>2</sup>	11,7 N/mm <sup>2</sup>	10,0 N/mm <sup>2</sup>	
tension		9,4 N/mm <sup>2</sup>		8,5 N/mm <sup>2</sup>	7,4 N/mm <sup>2</sup>	6,6 N/mm <sup>2</sup>	
compression		12,7 N/mm <sup>2</sup>		11,8 N/mm <sup>2</sup>	10,3 N/mm <sup>2</sup>	9,8 N/mm <sup>2</sup>	
shear perpendicular to panel plane		7,0 N/mm <sup>2</sup>		6,5 N/mm <sup>2</sup>	5,9 N/mm <sup>2</sup>	5,2 N/mm <sup>2</sup>	
shear in panel plane		1,9 N/mm <sup>2</sup>		1,7 N/mm <sup>2</sup>	1,5 N/mm <sup>2</sup>	1,3 N/mm <sup>2</sup>	
Stiffness (average) acc. DIN EN 12369-1:2001							
bending		3500 N/mm <sup>2</sup>		3300 N/mm <sup>2</sup>	3000 N/mm <sup>2</sup>	2600 N/mm <sup>2</sup>	
tension and compression		2000 N/mm <sup>2</sup>		1900 N/mm <sup>2</sup>	1800 N/mm <sup>2</sup>	1500 N/mm <sup>2</sup>	
shear perpendicular		960 N/mm <sup>2</sup>		930 N/mm <sup>2</sup>	860 N/mm <sup>2</sup>	750 N/mm <sup>2</sup>	
Properties independent of thickness of panel							
Mechanical durability, deformation coefficient (NKL 1 (3)):		kdef = 2,25					
Mechanical durability, deformation coefficient (NKL 2 (3)):		kdef = 3,00					
Mechanical durability, creep factor, (NKL 1), all thicknesses:		Loading					
		permanent: kmod = 0,30	long term: kmod = 0,45	medium term: kmod = 0,65	instantaneous: kmod = 0,85		
Mechanical durability, creep factor, (NKL 2), all thicknesses:		permanent: kmod = 0,20	long term: kmod = 0,30	medium term: kmod = 0,45	instantaneous: kmod = 0,60		
Content of PCP:		</= 5 ppm					
The performance of the product in accordance with paragraphs 1 and 2 corresponds to the declared performance stated to item 9. Responsible for the preparation of this declaration of performance is solely the manufacturer named in acc. To item 4.							
Signed on behalf of the manufacturer and the name of the manufacturer by:							
10	name:	Karl-Robert Kuntz	Date:	03.01.2020	Note (1): only valid for panel thicknesses of 9 mm and more		
	position:	CEO	Signature:		Note (2): NPD = no performance determined		
	place of issue:	D-54497 Morbach				Note (3): NKL = service class acc. DIN EN 1995-1-1	
Note (4): The product which this performance is declared, is for the most part made from natural wood. Therefore, the properties indicated with (4) are subject to the variations caused by wood and thus do not constitute a reason for a claim.							

EN 13986:2004+A1:2015