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

	Declaration of Performance No.	DoP-PB-51-250310						Replaces Version
1	Unique identification code of the product – type	Resin-bonded particleboard type P5 (esb)						DoP-PB-51-230118
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						
9	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/mm²	18,0 N/mm²	16,0 N/mm²	14,0 N/mm²	12,0 N/mm²		EN 13986:2004+A1:2015 and EN 312
	Bending stiffness (modulus of elasticity)	2550 N/mm²	2550 N/mm²	2400 N/mm²	2150 N/mm²	1900 N/mm²		
	Durableness							
	Bonding quality	NPD (2)	NPD (2)	NPD (2)	NPD (2)	NPD (2)		
	Transverse tensile strength	0,45 N/mm²	0,45 N/mm²	0,45 N/mm²	0,40 N/mm²	0,35 N/mm²		
	Durability (swelling)	13%	11%	10%	10%	10%		
	Durability (moisture resistance option 2)	0,15 N/mm²	0,15 N/mm²	0,14 N/mm²	0,12 N/mm²	0,11 N/mm²		
	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		
	Thickness in mm	12,0 mm	15,0 mm	18,0 mm	22,0 mm	25,0 mm	30,0 mm	
	Sd value (dry/humid) in m	Dry/Humid = 0,96/0,48	Dry/Humid = 1,20/0,60	Dry/Humid = 1,44/0,72	Dry/Humid =1,76/0,88	Dry/Humid = 2,0/1,2	Dry/Humid = 2,40/1,20	
	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/mm²		13,3 N/mm²	11,7 N/mm²	10,0 N/mm²		
	tension	9,4 N/mm²		8,5 N/mm²	7,4 N/mm²	6,6 N/mm²		
	compression	12,7 N/mm²		11,8 N/mm²	10,3 N/mm²	9,8 N/mm²		
	shear perpendicular to panel plane	7,0 N/mm²		6,5 N/mm²	5,9 N/mm²	5,2 N/mm²		
	shear in panel plane	1,9 N/mm²		1,7 N/mm²	1,5 N/mm²	1,3 N/mm²		
	Stiffness (average) acc. DIN EN 12369-1:2001							
	bending	3500 N/mm²		3300 N/mm²	3000 N/mm²	2600 N/mm²		
	tension and compression	2000 N/mm²		1900 N/mm²	1800 N/mm²	1500 N/mm²		
	shear perpendicular	960 N/mm²		930 N/mm²	860 N/mm²	750 N/mm²		
	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						
	Mechanical durability, creep factor, (NKL 2), all thicknesses:		permanent: kmod = 0,30	long term: kmod = 0,45	medium term: kmod = 0,65	instantaneous: kmod = 0,85		
			permanent: kmod = 0,20	long term: kmod = 0,30	medium term: kmod = 0,45	instantaneous: kmod = 0,60		
	Content of PCP:	</= 5 ppm						
10	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 manufaturer by:							
	name:	Frau Larissa Kuntz	Datum:	10.03.2025	Note (1): only valid for panel thicknesses of 9 mm and more			
	position	CEO	Unterschrift:		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.			