



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-SWP-20-200103								Replaces Version:	
1	Unique identification code of the product - type	SWP/2 S L3									
2	Labelling for identification of building product acc. To article 11, paragraph 4:	SWP/2 S L3 (15-20 mm)		SWP/2 S L3 (>20-30 mm)		SWP/2 S L3 (>30-42 mm)		SWP/2 S L3 (>42-52 mm)			
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		Not named					
5	Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12 (paragraph 2):										
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:		SWP/2 S L3 (15-20 mm)		SWP/2 S L3 (>20-30 mm)		SWP/2 S L3 (>30-42 mm)		SWP/2 S L3 (>42-52 mm)		Harmonised Technical Specifications	
		lengthways	across	lengthways	across	lengthways	across	lengthways	across		
Bending strength [ $f_m$ , 0 / $f_m$ , 90 ]:		35,0 N/mm <sup>2</sup>	5,0 N/mm <sup>2</sup>	30,0 N/mm <sup>2</sup>	5,0 N/mm <sup>2</sup>	16,0 N/mm <sup>2</sup>	9,0 N/mm <sup>2</sup>	12,0 N/mm <sup>2</sup>	9,0 N/mm <sup>2</sup>		
Bending stiffness (modulus of elasticity) [ $E_m$ , 0 / $E_m$ , 90 ]:		8500 N/mm <sup>2</sup>	470 N/mm <sup>2</sup>	7000 N/mm <sup>2</sup>	470 N/mm <sup>2</sup>	6500 N/mm <sup>2</sup>	1300 N/mm <sup>2</sup>	6000 N/mm <sup>2</sup>	1300 N/mm <sup>2</sup>		
Durableness:											
Quality of the bond:		SWP/2 after EN 13354:2008 (after cold water storage) • $0,4 \leq f_V < 0,8$ N/mm <sup>2</sup> (at fraction of wood $\geq 40\%$ ) • $0,8 \leq f_V < 1,2$ N/mm <sup>2</sup> (at fraction of wood $\geq 20\%$ ) • $f_V \geq 1,2$ N/mm <sup>2</sup> (no requirement for fraction of wood)									
Bonding quality		NPD (2)	NPD (2)	NPD (2)	NPD (2)	NPD (2)	NPD (2)	NPD (2)	NPD (2)		
Swelling of thickness		NPD (2)	NPD (2)	NPD (2)	NPD (2)	NPD (2)	NPD (2)	NPD (2)	NPD (2)		
moisture resistance		SWP/2 after EN 13354:2008 after cold water storage									
Swelling of thickness		NPD (2)	NPD (2)	NPD (2)	NPD (2)	NPD (2)	NPD (2)	NPD (2)	NPD (2)		
mechanic		NPD (2)	NPD (2)	NPD (2)	NPD (2)	NPD (2)	NPD (2)	NPD (2)	NPD (2)		
biological		NPD (2)	NPD (2)	NPD (2)	NPD (2)	NPD (2)	NPD (2)	NPD (2)	NPD (2)		
Formaldehyde emission:		E1E05									
Reaction to fire:		D-s2,d0 (1)		D-s2,d0		D-s2,d0		D-s2,d0			
Water vapour permeability $\mu$ after EN 13986: (4)		Dry 185, Humid 64		Dry 185, Humid 64		Dry 185, Humid 64		Dry 185, Humid 64			
Airborne sound insulation: (4)		NPD (2)		NPD (2)		NPD (2)		NPD (2)			
Sound absorption coefficient: (4)		0,10 / 0,30		0,10 / 0,30		0,10 / 0,30		0,10 / 0,30			
Thermal conductivity $\lambda$ : (4)		0,11 W/(mK)		0,11 W/(mK)		0,11 W/(mK)		0,11 W/(mK)			
Hole-reveal-stability		NPD (2)		NPD (2)		NPD (2)		NPD (2)			
Air permeability		NPD (2)		NPD (2)		NPD (2)		NPD (2)			
Structural Strength: acc. DIN EN 12369-3:2008 for load-bearing applications											
bend crossways to the plate level:		35,0 N/mm <sup>2</sup>	5,0 N/mm <sup>2</sup>	30,0 N/mm <sup>2</sup>	5,0 N/mm <sup>2</sup>	16,0 N/mm <sup>2</sup>	9,0 N/mm <sup>2</sup>	12,0 N/mm <sup>2</sup>	9,0 N/mm <sup>2</sup>		
bend in plate level:		25,0 N/mm <sup>2</sup>	12,0 N/mm <sup>2</sup>	14,0 N/mm <sup>2</sup>	12,0 N/mm <sup>2</sup>	12,0 N/mm <sup>2</sup>	12,0 N/mm <sup>2</sup>	10,0 N/mm <sup>2</sup>	12,0 N/mm <sup>2</sup>		
tension:		16,0 N/mm <sup>2</sup>	6,0 N/mm <sup>2</sup>	9,0 N/mm <sup>2</sup>	6,0 N/mm <sup>2</sup>	6,0 N/mm <sup>2</sup>	6,0 N/mm <sup>2</sup>	6,0 N/mm <sup>2</sup>	6,0 N/mm <sup>2</sup>		
compression:		16,0 N/mm <sup>2</sup>	10,0 N/mm <sup>2</sup>	16,0 N/mm <sup>2</sup>	10,0 N/mm <sup>2</sup>	10,0 N/mm <sup>2</sup>	16,0 N/mm <sup>2</sup>	10,0 N/mm <sup>2</sup>	16,0 N/mm <sup>2</sup>		
shear perpendicular to panel plane:		1,6 N/mm <sup>2</sup>	1,4 N/mm <sup>2</sup>	1,6 N/mm <sup>2</sup>	1,4 N/mm <sup>2</sup>	1,2 N/mm <sup>2</sup>	1,4 N/mm <sup>2</sup>	1,2 N/mm <sup>2</sup>	1,4 N/mm <sup>2</sup>		
shear in panel plane:		4,0 N/mm <sup>2</sup>	5,0 N/mm <sup>2</sup>	4,0 N/mm <sup>2</sup>	3,5 N/mm <sup>2</sup>	3,5 N/mm <sup>2</sup>	2,5 N/mm <sup>2</sup>	2,5 N/mm <sup>2</sup>	2,0 N/mm <sup>2</sup>		
Stiffness (average) acc. DIN EN 12369-3:2008											
bend crossways to the plate level:		10000 N/mm <sup>2</sup>	550 N/mm <sup>2</sup>	8200 N/mm <sup>2</sup>	550 N/mm <sup>2</sup>	7600 N/mm <sup>2</sup>	1500 N/mm <sup>2</sup>	7100 N/mm <sup>2</sup>	1500 N/mm <sup>2</sup>		
bend in plate level:		4700 N/mm <sup>2</sup>	3500 N/mm <sup>2</sup>	2900 N/mm <sup>2</sup>	3500 N/mm <sup>2</sup>	2400 N/mm <sup>2</sup>	4700 N/mm <sup>2</sup>	1800 N/mm <sup>2</sup>	4700 N/mm <sup>2</sup>		
tension:		4700 N/mm <sup>2</sup>	2900 N/mm <sup>2</sup>	3500 N/mm <sup>2</sup>	2900 N/mm <sup>2</sup>	2400 N/mm <sup>2</sup>	2900 N/mm <sup>2</sup>	2400 N/mm <sup>2</sup>	2900 N/mm <sup>2</sup>		
shear perpendicular to panel plane:		41 N/mm <sup>2</sup>	41 N/mm <sup>2</sup>	41 N/mm <sup>2</sup>	41 N/mm <sup>2</sup>	41 N/mm <sup>2</sup>	41 N/mm <sup>2</sup>	41 N/mm <sup>2</sup>	41 N/mm <sup>2</sup>		
shear in panel plane:		470 N/mm <sup>2</sup>	470 N/mm <sup>2</sup>	470 N/mm <sup>2</sup>	470 N/mm <sup>2</sup>	470 N/mm <sup>2</sup>	470 N/mm <sup>2</sup>	470 N/mm <sup>2</sup>	470 N/mm <sup>2</sup>		
Properties independent of thickness of panel											
Mechanical durability, deformation coefficient (NKL 1 (3)):		NPD (2)									
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:	Frau Larissa Kuntz		Date:	23.06.2020		Note (1): only valid for panel thicknesses of 9 mm and more				
	Function:	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.				
						Note (5): Manufacturer's certificate on the product edge (sorting quality, plate thickness, date of manufacture and name of inspector)					

EN 13986:2004+A1:2015