

Declaration of performance

DOP CLTPLUS 2026-10

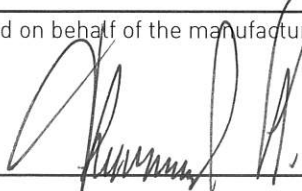
acc. to EU Regulation No. 305/2011

1. Unique product type identifier:	Theurl CLTPLUS
2. Designated use:	Load-bearing and non-load-bearing use in structural engineering acc. to Eurocode 5 (EN 1995)
3. Manufacturer:	THEURL HOLZ STEINFELD GmbH; Industriezone 1; A-9754 Steinfeld
4. Authorised representative:	No external representative
5. System for assessment and verification of performance reliability:	System 1
6b. European assessment document:	EAD 130005-00-0304
European technical assessment:	ETA-20/0843, 15.07.2025
Technical assessment centre:	Österreichisches Institut für Bautechnik (OIB), Schenkenstraße 4, 1010 Wien - AT
Notified body:	Holzforschung Austria 1359
Certificate number	1359-CPR-0810

7. Product characteristics	
Number of layers	3-9, symmetric design
Max. number of parallel layers	2
Geometric data	Width 2,25 - 3,5 m Length 8 - 16 m Thickness 60 - 360 mm
Type of wood	Spruce PCAB or similar conifer, fir and pine
Strength class	Top layer C24 (EN338), innerlayer ≥ 90% C24, ≤ 10% C16
Wood moisture	10-12% (+/-2%)
Adhesive	1K PUR, EN 15425, finger jointing and surface bonding formaldehyde-free
Finger jointing	EN 14080
Adhesive strength of adhesive bonding between layers	Delamination test acc. to EN 14080, Appendix C, Method B
Fire characteristics	D-s2, D0, resolution of the Commission 2005/610/EC
Heat conductivity	0,12 W/m²K, EN ISO 10456
Specific heat capacity	1600 J/kgK, EN ISO 10456
Air permeability	Class 4 see air-tight, Class 4 acc. to EN 12207
Water vapour resistance factor μ	20-50, EN ISO 10456
Use class	1 and 2, EN 1995-1-1

8. Declared performance:		
Essential characteristics:	Performance	Assessment method
Mechanical characteristics:	Theurl CLTPLUS acc. Appendix 2, ETA-20/0843	EAD 130005-00-0304, 2.2.2.2
Resistance of fire:	Charring rate	
	Charring of the cover layer β_0	0,65 mm/min
	Charring of more layers than the cover layer β_n^*	1,3 mm/min
	* until the first 25 mm of charring. Afterwards the charring rate 0,65 mm/min applies up to the next glue line.	
Panel loads:		
Strength class of lamellae:	C24	Acc. to EN 338
Young's modulus:	$E_{0,mean} = 11600 \text{ N/mm}^2$ parallel	$E_{90,mean} = 370 \text{ N/mm}^2$ vertical Appendix 3 ETA-20/0843
Shear modulus:	$G_{0,mean} = 690 \text{ N/mm}^2$ parallel	$G_{90,mean} = 50 \text{ N/mm}^2$ vertical EAD 130005-00-0304, 2.2.1.1
Flexural strength:	$f_{m,k} = 1/k_{sys} \cdot 26,4 \text{ N/mm}^2$ [1]	EAD 130005-00-0304, 2.2.1.1
Tensile strength:	$f_{t,90,k} = 0,12 \text{ N/mm}^2$	EN 338
Compressive strength:	$f_{c,90,k} = 2,5 \text{ N/mm}^2$	EN 338
Shear strength:	$f_{v,090,k} = 4,0 \text{ N/mm}^2$	Rolling shear $f_{v,9090,k} = 1,3 \text{ N/mm}^2$ EN 338 Appendix 3 EAD 130005-00-0304, 2.2.1.3
Remarks: [1]	$k_{sys} = \max\{\frac{1,1 - 0,025 \cdot n}{1}\}$	n = number of boards in top layer
Slab loads:		
Strength class of lamellae:	C24	Acc. to EN 338
Young's modulus:	$E_{0,mean} = 11600 \text{ N/mm}^2$ parallel	Appendix 3 ETA-20/0843
Shear modulus:	$G_{0,mean} = 450 \text{ N/mm}^2$ parallel	EAD 130005-00-0304, 2.2.1.1
Flexural strength:	$f_{m,k} = 24,0 \text{ N/mm}^2$	Appendix 3 ETA-20/0843
Tensile strength:	$f_{t,0,k} = 14,5 \text{ N/mm}^2$	EN 338
Compressive strength:	$f_{c,0,k} = 21,0 \text{ N/mm}^2$	EN 338
Shear strength:	$f_{v,090,k} = 5,0 \text{ N/mm}^2$	Appendix 3 EAD 130005-00-0304, 2.2.1.3

9. The performance of the above product corresponds to the declared specification. The manufacturer named above is solely responsible for drawing up the declaration of performance in accordance with Regulation (EU) No. 305/2011.

Steinfeld, 20.10.2026	Signed on behalf of the manufacturer:  THEURL AUSTRIAN PREMIUM TIMBER™ THEURL HOLZ STEINFELD GMBH 9754 Steinfeld · Industriezone 1 · Tel. +43 4855 8411-500 ATU73784489
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