

DECLARATION OF PERFORMANCE

NO. DOP-TABSAL/LSL/2020-EN

1. PRODUCT-TYPE:

LignumStrand
Structural Laminated Strand Lumber

2. TYPE, BATCH OR SERIAL NUMBER OR OTHER IDENTIFICATION:

Lignumstrand E 10.7 and Lignumstrand E 9.5F
Structural Laminated Strand Lumber

3. INTENDED USE OR USES:

One- or two-dimensional structural building applications including short and intermediate span beam and panels, lintels, purlins, studs, ceiling joists, sills, stair stringers and rim boards and as component of the other structural elements.

Only for indoor applications in dry service condition (Service Classes 1 and 2 according to EN 1995-1-1) and in hazard classes 1 and 2, as defined in EN 335.

4. NAME AND ADDRESS OF THE MANUFACTURER:

Tabsal SCL. S.L.
Paraje Zerradoba SN
31840 Uharte Arakil (Spain)
Tel. +34 948 46 43 03
Tabsal

5. SYSTEM OF ASSESSMENT AND VERIFICATION OF CONSTANCY OF PERFORMANCE:

AVCP System 1

6. CONSTRUCTION PRODUCT COVERED BY A HARMONISED TECHNICAL SPECIFICATION:

TecNALIA Research & Innovation, Technical Assessment Body, has issued the ETA 19/0456 of 26/08/2019. The assessment has been carried out according to EAD 130308-00-0304 "Structural Composite Lumber Product: Laminated Strand Lumber (LSL)".

TecNALIA Research & Innovation, Notified body No. 1292, performed initial inspection of the manufacturing plant and of factory production control and performs the continuous surveillance, assessment and evaluation of factory production control under System 1 and issued the certificate of constancy of performance 1292/CPR/062906.

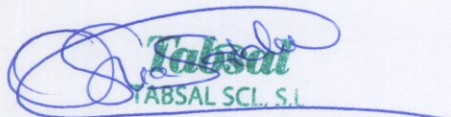
7. DECLARED PERFORMANCE

ESSENTIAL CHARACTERISTICS	Symbol	Unit	Regulation	Observation	Lignumstrand E 10,7	Lignumstrand ignifugo E 3,5F
Bending strength edge	$f_{m,0,edge,k}$	N/mm ²	EN 14374 (4.4.2) EN 408 (19)	Characteristic	35	27.3
Bending strength face	$f_{m,90,flat,k}$	N/mm ²	EN 14374 (4.4.3) EN 408 (19)	Characteristic	39.6	34.4
Tension strength parallel to grain	$f_{t,0,k}$	N/mm ²	EN 14374 (4.4.4) EN 408 (13)	Characteristic	29.1	18.7
Tension strength. Perpendicular to grain, flatwise	$f_{t,90,flat}$	N/mm ²	EN 14374 (4.4.5) EN 408 (16)	Characteristic	0.66	0.38
Compression strength. Parallel to grain	$f_{c,0,k}$	N/mm ²	EN 14374 (4.4.6) EN 408 (15)	Characteristic	29	21
Compression strength. Perpendicular to grain, edgewise	$f_{c,90,edge,k}$	N/mm ²	EN 14374 (4.4.7) EN 408 (16)	Characteristic	8.7	8.2
Compression strength. Perpendicular to grain, flatwise	$f_{c,90,flat,k}$	N/mm ²	EN 14374 (4.4.7) EN 408 (16)	Characteristic	10.8	11.2
Shear strength. Edgewise	$f_{v,0,edge,k}$	N/mm ²	EN 14374 (4.4.8) EN 408 (18)	Characteristic	8.6	7
Shear strength. Flatwise. Parallel to grain	$f_{v,0,flat,k}$	N/mm ²	EN 14374 (4.4.9) EN 789 (11)	Characteristic	3.2	1.7
Modulus of elasticity, Perpendicular to grain, edgewise	$E_{90,edge,mean}$	N/mm ²	EN 14374 (4.5.2) EN 408 (9)	Mean	10,700	9,500
Modulus of elasticity. Parallel to grain, along	$E_{0,mean}$	N/mm ²	EN 14374 (4.5.2) EN 408 (9)	Mean	11,600	10,600
Modulus of elasticity. Perpendicular to grain, flatwise	$E_{90,edge,mean}$	N/mm ²	EN 14374 (4.5.3) EN 408 (9)	Mean	180	170
Shear modulus. Edgewise	$G_{0,edge,mean}$	N/mm ²	EN 14374 (4.5.4) EN 408 (18)	Mean	2100	1500
Shear modulus. Flatwise, parallel to grain	$G_{0,edge,mean}$	N/mm ²	EN 14374 (4.5.5) EN 789 (11)	Mean	470	440
Density	ρ	Kg/m ³	EN 323	Mean	722	736
Durability against biological attack: <i>Hylotropes bajulus</i> .			EN 350-2016 EN46:2016	class	DC D	DC D
Durability against biological attack: <i>Reticulitermes spp.</i>			EN 350-2016 EN117:2012	class	DC S	DC D
Durability against biological attack: <i>Basidiomycetes fungus</i>			EN 350-2016 EN113:1996 + A1:2004	class	DC 4	DC 1
Fire classification			UNE-EN 13823	class	D-s1,d0	C-s1,d0
Charring rate. Face	$\beta_{ch(0-30)}$	mm/min	EAD 130308-00-0304 Anexø A	Characteristic values	0.53	0.45
Charring rate. Edge	$\beta_{ch(0-30)}$	mm/min			0.56	0.52
Nominal charring rate	$\beta_{ch(0-30)}$	mm/min			0.59	0.54
Formaldehyde release		mg/m ³	EN 717-1	emission class	<0,001 E1	<0,001 E1
VOCs & VOSCs emission	EN 16516		AgBB 2018	Pass/Not Pass	Pass	Pass
			Belgian	Pass/Not Pass	Pass	Pass
			French	class	A+	A+

The material values in this DoP are to be used for structural calculations with EN 1995 (Eurocode 5).

The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 7. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4. Signed for and on behalf of the manufacturer by:

Uharte Arakil, Navarra (Spain), 07/07/2020



Tabsal
TABSAL SCL, S.L.

Oskia Saldise
Managing Director