

- As a world leader in wood strand based composites, LP now has SolidStart LSL (Laminated Strand Lumber) products specifically developed for door and window components
- With our strand technology and steam injection press, LP SolidStart LSL is more uniform, resists splitting, holds screws better and remains straighter than traditional timber

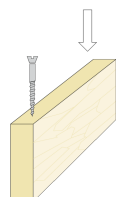
LP SolidStart LSL – Material Properties

(Products designated for use in dry conditions)

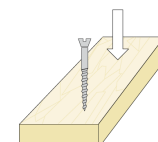
Property	Test Standard	LSL Core-38	LSL-Q Lite (1,35E) CE	LSL-Q (1,55E) CE	LSL-G (1,75E) CE
Bending Stiffness – MOE (<i>edgewise or flatwise</i>)	EN 408	7 600 N/mm ²	9 300 N/mm ²	10 600 N/mm ²	12 000 N/mm ²
Bending Strength - MOR (<i>edgewise at 300 mm</i>)	EN 408	17,3 N/mm ²	25,1 N/mm ²	34,2 N/mm ²	36,3 N/mm ²
Bending Strength Size Effect Parameter	EN 408	0,15	0,15	0,15	0,15
Bending Strength - MOR (<i>flatwise</i>)	EN 408	19,2 N/mm ²	27,7 N/mm ²	37,9 N/mm ²	40,5 N/mm ²
Release of Formaldehyde Class	EN 717-1	Class E1	Class E1	Class E1	Class E1
Bond Durability Service Class	EN 1995-1-1	Class 1 & 2	Class 1 & 2	Class 1 & 2	Class 1 & 2
Reaction to Fire Class	EN 13501-1	D-s2, d0	D-s2, d0	D-s2, d0	D-s2, d0
Nominal Char Rate	EN ISO 5660	0,87 mm/min	0,87 mm/min	0,87 mm/min	0,87 mm/min
Thermal Conductivity (<i>flatwise</i>)	EN 12664	0,13 W/(m*K)	0,13 W/(m*K)	0,13 W/(m*K)	0,13 W/(m*K)
Water Vapour Permeability	EN ISO 12572	1,4 metric perm	1,0 metric perm	0,5 metric perm	0,4 metric perm
4,2 x 38 mm Wood Screw – Screw Withdrawal (<i>edgewise</i>)	EN 320	2 510 N	2 910 N	3 080 N	3 100 N
4,2 x 38 mm Wood Screw – Screw Withdrawal (<i>flatwise</i>)	EN 320	2 650 N	3 070 N	3 240 N	3 280 N
Thickness Change (<i>Relative humidity change from 30% to 85%</i>)	EN 318	2 to 3%	2 to 3%	2 to 3%	2 to 3%
Width or Length Change (<i>Relative humidity change from 30% to 85%</i>)	EN 318	< 1%	< 1%	< 1%	< 1%
Internal Bond	EN 319	0,55 N/mm ²	0,59 N/mm ²	0,59 N/mm ²	0,62 N/mm ²
Moisture Content (<i>at time of manufacture</i>)	EN 322	5 to 8%	5 to 8%	5 to 8%	5 to 8%
Density	EN 323	610 kg/m ³	705 kg/m ³	745 kg/m ³	769 kg/m ³

NOTES: Values and classifications in shaded cells certified as per EC Certificate 0679-CPD-0844, Declaration of Performance DOP-1555-01-01 and ETA-13/0038 report for LP SolidStart LSL. Property values represent a five panel average with two tests per panel.

Edgewise Orientation



Flatwise Orientation





LP SolidStart LSL Manufacturing Plant Capabilities	
Product Dimensions:	Metric
Minimum Thickness	22,3 mm
Maximum Thickness	89,0 mm
Minimum Width	79,4 mm
Maximum Width	1 397 mm
Minimum Length	2 134 mm
Maximum Length	19 507 mm
Dimensional Tolerances:	Metric
Thickness (≤ 35 mm thick, Non-sanded)	$\pm 1,6$ mm
Thickness (> 35 mm thick, Non-sanded)	$\pm 2,0$ mm
Thickness (All thicknesses, Both faces sanded)	$\pm 1,0$ mm
Width	$\pm 1,6$ mm
Length (Non-PET)	-0 mm / +19,0 mm
Length (PET- Precision End Trim)	$\pm 1,6$ mm

Sustainability

- LP uses low-emitting, safe adhesives in the manufacture of LP SolidStart LSL and does not add any formaldehyde
- LP timber procurement targets small, fast growing trees for use in manufacturing so that forestlands can be replenished more quickly
- LP uses SFI® certified forest management and fiber sourcing system to help ensure that timber comes from well managed forests; LP SolidStart LSL is dual certified to SFI and PEFC™ chain-of-custody (CoC) standard

Warranty

LP warrants that as of the date of their manufacture, these products meet the specifications published in this document. ALL OTHER WARRANTIES, EXPRESS AND IMPLIED, ARE HEREBY DISCLAIMED INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. ANY CLAIM FOR BREACH OF THIS WARRANTY MUST BE MADE TO LP WITHIN 180 DAYS OF CUSTOMER RECEIPT OF THESE PRODUCTS. DAMAGES FOR BREACH OF WARRANTY SHALL IN NO EVENT EXCEED THE ORIGINAL PURCHASE PRICE PAID TO LP FOR THE AFFECTED PRODUCTS. More information can be found at LPCorp.com/EU or email any questions to IntlSales@LPCorp.com.



0679-CPD-0844
ETA-13/0038



EUROCODE 5



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