



# Lexington Manufacturing

## TimberStrand® LSL

### General Physical and Mechanical Property Specifications<sup>(1)</sup>

Physical Properties		Test Method
Target Density	38 pcf	ASTM D 1037
Product Moisture Content	4-8%	ASTM D 1037
Thickness Change <sup>(2)</sup>	5-6%	ASTM D 1037
Width Change	< 1%	ASTM D 1037
Length Change	Negligible	ASTM D 1037
Flame Spread Rating	Class C	ASTM E-84
Thermal Properties	1.3 R/in.	ASTM C518

Mechanical Properties		
Internal Bond	80 psi	ASTM D 1037
Average Ultimate Bending Stress (MOR) - Flat <sup>(4)</sup>	4550 psi	ASTM D 198-98
Average Bending Stiffness (MOE) - Flat <sup>(4)</sup>	1,000,000 psi	ASTM D 198-98
#12 Screw Withdrawal - Face <sup>(3)</sup>	775 lbs	WDMA TM-10
#12 Screw Withdrawal - Edge <sup>(3)</sup>	725 lbs	WDMA TM-10
Hinge Loading #12 screw	650 LBS	WDMA TM-8
Edge Impact Resistance	PASS	WDMA TM-15

Notes:

1. Values indicated above are **not** design values.
2. Thickness change from 50% to 90% relative humidity.
3. Screw withdrawal values are based on testing a #12 x 2" wood screw with 11 threads per inch of screw length. (NWWDA TM-10)
4. Bendings are based on 1 1/2" thickness; for other thicknesses multiply value by  $(1.5/D)^{0.092}$  Where D is the thickness
5. TimberStrand® LSL is a registered trademark of Weyerhaeuser

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