



Lexington Manufacturing

TimberStrand® LSL

General Physical and Mechanical Property Specifications⁽¹⁾

Physical Properties		Test Method
Target Density	38 pcf	ASTM D 1037
Product Moisture Content	4-8%	ASTM D 1037
Thickness Change ⁽²⁾	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 ⁽⁴⁾	4550 psi	ASTM D 198-98
Average Bending Stiffness (MOE) - Flat ⁽⁴⁾	1,000,000 psi	ASTM D 198-98
#12 Screw Withdrawal - Face ⁽³⁾	775 lbs	WDMA TM-10
#12 Screw Withdrawal - Edge ⁽³⁾	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

Date: May 2022-Please contact Lance Wasniewski at 1-877-200-4345 if this document is more than 2 year old.