



TimberStrand® LSL

General Physical and Mechanical Property Specifications⁽¹⁾

Physical Properties		Test Method
Target Density	38 pcf	ASTM D 1037
Product Moisture Content	6-8%	ASTM D 1037
Thickness Change ⁽²⁾	3-4%	ASTM D 1037
Width Change	< 1%	ASTM D 1037
Length Change	Negligible	ASTM D 1037
Flame Spread Rating	140	ASTM E-84
Thermal Properties	1.25 R	ASTM E 518-85

Mechanical Properties		
Internal Bond	80 psi	ASTM D 1037
Average Ultimate Bending Stress (MOR) - Edge	5000 psi	ASTM D 198-98
Average Ultimate Bending Stress (MOR) - Flat	5200 psi	ASTM D 198-98
Average Bending Stiffness (MOE) - Edge	1,100,000 psi	ASTM D 198-98
Average Bending Stiffness (MOE) - Flat	1,100,000 psi	ASTM D 198-98
#12 Screw Withdrawal - Face ⁽⁴⁾	775 lbs	NWWDA TM-10
#12 Screw Withdrawal - Edge ⁽⁴⁾	725 lbs	NWWDA TM-10
Split Resistance - Perp. to Face	200 LBS	NWWDA TM-5
Split Resistance - Para. to Face	1450 LBS	NWWDA TM-5
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. TimberStrand® LSL is a registered trademark of Weyerhaeuser