

## HIGH QUALITY ALTERNATIVE TO SOLID STRUCTURAL TIMBERS

Rosboro Laminated Timber™ is the ideal substitute for most solid timber applications. Manufactured from high-quality kiln dried Douglas fir lumber, this is the perfect solution for site or factory built walls, concrete forming, shoring, and other manufactured assemblies and industrial uses.

Rosboro Laminated Timber is produced in multiple lengths and is straight, square, and dimensionally stable. No more costly losses due to excessive downfall or customer claims.

### FEATURES AND BENIFITS OF LAMINATED TIMBER

- S4S finish, square edge
- Straight, dimensionally stable, consistently sized
- Engineered structural values that easily substitute for traditional timber
- Readily available in easy-to-manage long lengths

### AVAILABLE SIZES

Nominal Thickness	Nominal Width	Net Width
<b>4x &amp; 6x*</b>	6"	5½"
	8"	7¼"
	10"	9¼"
	12"	11¼"
	14"	13¼"
	16"	15¼"

\*3½" & 5½" net thickness

- Available in 2' length increments: 16' through 24'
- Other lengths available for special order



# ROSBORO LAMINATED TIMBER™

## Section Properties

Nominal Thickness	Width (in)	Weight (lb / ft)	Maximum Resistive Shear (lbf)			Maximum Resistive Moment (ft-lbf)			EI (10 <sup>6</sup> in <sup>2</sup> -lb)
			100%	115%	125%	100%	115%	125%	
4x	6	4.7	3,401	3,911	4,251	2,941	3,382	3,676	78
	8	6.2	4,483	5,155	5,604	5,110	5,877	6,388	178
	10	7.9	5,720	6,578	7,149	8,319	9,566	10,398	369
	12	9.6	6,956	8,000	8,695	12,305	14,150	15,381	664
	14	11.3	8,193	9,422	10,241	17,069	19,629	21,336	1,086
6x	6	7.4	5,344	6,146	6,680	4,622	5,315	5,777	122
	8	9.7	7,045	8,101	8,806	8,030	9,235	10,038	279
	10	12.4	8,988	10,336	11,235	13,072	15,033	16,340	580
	12	15.0	10,931	12,571	13,664	19,336	22,236	24,170	1,044
	14	17.7	12,875	14,806	16,093	26,822	30,845	33,528	1,706

Notes for RLT Design Properties:

1. Beam weight is assumed to be 35 pcf.
2. Maximum resistive moment shall be adjusted by the volume factor based on NDS-18.

## Design Values vs. Dimension Lumber/Timber

Product	Grade	Flexural Stress $F_b$ (psi)	Compression Perpendicular to Grain $F_{c\perp}$ (psi)	Shear $F_v$ (psi)	MOE (10 <sup>6</sup> psi)
RLT	20F-V7 Balanced	2,000	650	265	1.6
4x DF/L	Select Structural	1,500—1,950	625	180	1.9
4x DF/L	No. 1	1,000—1,300	625	180	1.7
4x DF/L*	No. 2	900—1,350	625	180	1.6
6x DF/L*	Select Structural	1,558—1,600	625	170	1.6
6x DF/L*	No. 1	1,315—1,350	625	170	1.6
6x DF/L*	No. 2	852—875	625	170	1.3

\* RLT is a direct substitute for these sizes and grades of timber.