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# THE ENGINEERED WOOD PRODUCT THAT PERFORMS BETTER THAN LSL

Rosboro ESL 1.6 E™ is the perfect choice for engineered beam, header, and joist applications. The full 3½" and 5½" widths make it ideal for wall framing. Produced in I-joist depths for compatibility with EWP floors, ESL is a great substitute for multiple I-joist assemblies. The balanced layup means hassle-free use in cantilever and multi-span applications.



- ESL is 25% lighter than LSL and is easier to cut, drill, and nail
- Straight, dimensionally stable, consistent sizes
- Does not require special hangers or screws and no nailing or bolting multiple plys
- Enhanced Industrial appearance planed smooth with no off-set laminations

#### INDUSTRIAL APPLICATION

- Factory-built walls and trusses
- Concrete forming
- Shoring

#### **SIZES**

- Full width 3½" and 5½"
- EWP depths: 9½" 11%" 14" 16"
- Also available in 9¼" and 11¼" depths
- Available in long lengths







2019-03-Rosboro-ESL\_Flyer-1.6E-FNL-Web

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# ROSBORO ESL 1.6 E™ BALANCED LAYUP COMPARED TO LAMINATED STRAND LUMBER (LSL)

### 14 ft Simple Span

Width x Depth	Product	Floor Load @ 100%, Total Load (PLF)	Roof Load @ 125%, Total Load (PLF)		
3½" x 9½"	Rosboro ESL 1.6 E	316	424		
	TJ TimberStrand	288	386		
	LP SolidStart	288	388		

## Rosboro ESL 1.6 E™: Design Values

Product	Layup	Flexural Stress Fb (psi)		Compression Perpendicular	Shear	MOE (10 <sup>6</sup> psi)	
Floudet	Combination	Tension Zone	Compression Zone		Fv (PSI)	Apparent	True
ESL 1.6 E	20F-V7	2,000	2,000	650	265	1.6	1.7

## Rosboro ESL 1.6 E™ Balanced Layup Section Properties

EWS 20F-V7 Dry-Use  $F_b = 2,000 \text{ psi}$   $F_v = 265 \text{ psi}$   $E = 1.6 \times 10^6 \text{ psi}$   $F_{CP} = 650 \text{ psi}$ 

Width (in)		Weight	Maximum Resistive Shear (lbf)		Depth (in)			El	
		(lbf / ft)	100%	115%	125%	100%	115%	125%	(10 <sup>6</sup> in <sup>2</sup> -lb)
3½"	91/4	7.9	5,720	6,578	7,149	8,319	9,566	10,398	369
	9½	8.1	5,874	6,755	7,343	8,774	10,090	10,968	400
	11¼	9.6	6,956	8,000	8,695	12,305	14,150	15,381	664
	11%	10.1	7,343	8,444	9,178	13,710	15,766	17,137	781
	14	11.9	8,657	9,955	10,821	19,056	21,914	23,819	1,281
	16	13.6	9,893	11,377	12,367	24,889	28,622	31,111	1,911
5½"	9¼	12.4	8,988	10,336	11,235	13,072	15,033	16,340	580
	9½	12.7	9,231	10,615	11,539	13,788	15,856	17,235	629
	111/4	15.0	10,931	12,571	13,664	19,336	22,236	24,170	1,044
	11%	15.9	11,539	13,269	14,423	21,544	24,776	26,930	1,228
	14	18.7	13,603	15,644	17,004	29,944	34,436	37,431	2,012
	16	21.4	15,547	17,879	19,433	39,111	44,978	48,889	3,004

Notes for ESL Design Properties:

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<sup>1.</sup> Beam weight is assumed to be 35 pcf.

 $<sup>2.\</sup> Maximum\ resistive\ moment\ shall\ be\ adjusted\ by\ the\ folume\ factor\ based\ on\ NDS-18.$