

# Engineered Wood Products



Engineered wood products are products composed of composite materials. Some (but not all) examples of engineered wood products are as follows:

- \* I Joists
- \* Laminated Beams
- \* Glulam
- \* Laminated Strand Lumber
- \* LVL Beams

These products will have specifications from the manufacturer. These specifications will include information on limitations/requirements for the product such as spans, bearing requirements, loading capacity, deflection etc. These specifications should be included with your permit application for all types and sizes of engineered wood products being used for the project. An example of such information can be seen below:

Span	Condition	1 1/4" Width			3 1/2"				5 1/4" Width (2- or 3-ply)			
		9 1/2"	11 1/4"	14"	9 1/2"	11 1/4"	14"	16"	9 1/2"	11 1/4"	14"	16"
3'	Total Load	3,166	4,717	4,717	6,332	9,432	9,432	9,432	9,499	14,148	14,148	14,148
	Live Load L/360	*	*	*	*	*	*	*	*	*	*	*
	Min. End/Int. Bearing (in.)	3/7.6	4.5/11.3	4.5/11.3	3/7.6	4.5/11.3	4.5/11.3	4.5/11.3	3/7.6	4.5/11.3	4.5/11.3	4.5/11.3
4'	Total Load	2,006	2,836	3,536	4,012	5,673	7,070	7,070	6,018	8,510	10,605	10,605
	Live Load L/360	*	*	*	*	*	*	*	*	*	*	*
	Min. End/Int. Bearing (in.)	2.6/6.4	3.6/9	4.5/11.3	2.6/6.4	3.6/9	4.5/11.3	4.5/11.3	2.6/6.4	3.6/9	4.5/11.3	4.5/11.3
5'	Total Load	1,467	2,004	2,577	2,934	4,009	5,155	5,652	4,401	6,014	7,733	8,478
	Live Load L/360	*	*	*	*	*	*	*	*	*	*	*
	Min. End/Int. Bearing (in.)	2.3/5.8	3.2/8	4.1/10.3	2.3/5.8	3.2/8	4.1/10.3	4.5/11.3	2.3/5.8	3.2/8	4.1/10.3	4.5/11.3
6'	Total Load	1,152	1,549	1,952	2,305	3,098	3,904	4,277	3,458	4,648	5,857	7,061
	Live Load L/360	1,048	*	*	2,097	*	*	*	3,146	*	*	*
	Min. End/Int. Bearing (in.)	2.2/5.5	3/7.4	3.7/9.3	2.2/5.5	3/7.4	3.7/9.3	4.5/11.3	2.2/5.5	3/7.4	3.7/9.3	4.5/11.3
7'	Total Load	845	1,262	1,570	1,691	2,524	3,141	3,787	2,536	3,786	4,711	5,681
	Live Load L/360	699	1,250	*	1,399	2,501	*	*	2,098	3,752	*	*
	Min. End/Int. Bearing (in.)	1.9/4.7	2.8/7	3.5/8.8	1.9/4.7	2.8/7	3.5/8.8	4.2/10.6	1.9/4.7	2.8/7	3.5/8.8	4.2/10.6
8'	Total Load	646	990	1,313	1,292	1,981	2,626	3,138	1,938	2,971	3,939	4,708
	Live Load L/360	487	886	*	974	1,773	*	*	1,462	2,660	*	*
	Min. End/Int. Bearing (in.)	1.7/4.1	2.5/6.3	3.4/8.4	1.7/4.1	2.5/6.3	3.4/8.4	4/10	1.7/4.1	2.5/6.3	3.4/8.4	4/10

Span      Bearing Required      Loading      Edge Width of Product      Product Depth