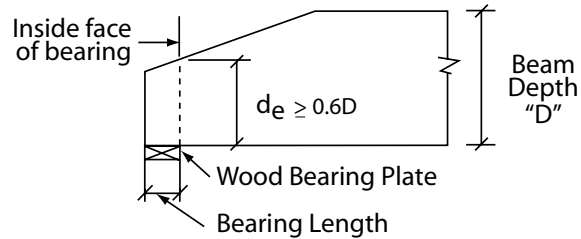


# 1-3/4" RIGIDLAM® LVL TAPERED END CUT ALLOWABLE REACTIONS



**General Notes:**

- Values in table apply to RigidLam® LVL manufactured by Roseburg Forest Products.
- Values in table are for 1-3/4" wide beams. Use the following multipliers to calculate the allowable maximum reactions for other widths:  
 3-1/2" wide beam: Multiply table value by 2  
 5-1/4" wide beam: Multiply table value by 3  
 7" wide beam: Multiply table value by 4
- No increase for duration of load is permitted.
- Table values apply to horizontal LVL beams that have been properly designed for appropriate strength and stiffness.
- Concentrated loads are not allowed in the tapered end cut area of the beam.
- The bearing surface is assumed to be a sawn lumber plate with an allowable flatwise bearing stress of 425 psi
- Tapered end cuts require special consideration when uplift reaction conditions exist. Contact your Roseburg EWP representative.
- The first  $d_e$  listed for any beam depth is the minimum depth based on  $d_e \geq 0.6D$  (60% of beam depth).

3-1/2" BEARING LENGTH										
Slope =	4:12		6:12		8:12		10:12		12:12	
Beam Depth (in.)	$d_e$ (in.)	Max. Reaction (lbs)	$d_e$ (in.)	Max. Reaction (lbs)	$d_e$ (in.)	Max. Reaction (lbs)	$d_e$ (in.)	Max. Reaction (lbs)	$d_e$ (in.)	Max. Reaction (lbs)
7.25	4.50	1496	4.50	1496	4.50	1572	4.50	1740	4.50	1852
	5	1663	5	1737	5	1906	5	2007	5	2074
	6	2151	6	2237	6	2281	6	2307	6	2324
	7	2402	7	2405	7	2406	7	2407	7	2408
9.5	5.75	1912	5.75	1912	5.75	1939	5.75	2183	5.75	2346
	6	1995	6	1995	6	2141	6	2344	6	2480
	7	2328	7	2565	7	2603	7	2603	7	2603
	8	2603	8	2603	8	2603	8	2603	8	2603
	9	2603	9	2603	9	2603	9	2603	9	2603
11.875	7.25	2411	7.25	2411	7.25	2477	7.25	2603	7.25	2603
	8	2603	8	2603	8	2603	8	2603	8	2603
	9	2603	9	2603	9	2603	9	2603	9	2603
	10	2603	10	2603	10	2603	10	2603	10	2603
	11	2603	11	2603	11	2603	11	2603	11	2603
14	8.50	2603	8.50	2603	8.50	2603	8.50	2603	8.50	2603
	9	2603	9	2603	9	2603	9	2603	9	2603
	10	2603	10	2603	10	2603	10	2603	10	2603
	11	2603	11	2603	11	2603	11	2603	11	2603
	12	2603	12	2603	12	2603	12	2603	12	2603
16	9.75	2603	9.75	2603	9.75	2603	9.75	2603	9.75	2603
	10	2603	10	2603	10	2603	10	2603	10	2603
	11	2603	11	2603	11	2603	11	2603	11	2603
	12	2603	12	2603	12	2603	12	2603	12	2603
	13	2603	13	2603	13	2603	13	2603	13	2603
18	11.00	2603	11.00	2603	11.00	2603	11.00	2603	11.00	2603
	12	2603	12	2603	12	2603	12	2603	12	2603
	13	2603	13	2603	13	2603	13	2603	13	2603
	14	2603	14	2603	14	2603	14	2603	14	2603
	15	2603	15	2603	15	2603	15	2603	15	2603

5-1/4" BEARING LENGTH										
Slope =	4:12		6:12		8:12		10:12		12:12	
Beam Depth (in.)	$d_e$ (in.)	Max. Reaction (lbs)	$d_e$ (in.)	Max. Reaction (lbs)	$d_e$ (in.)	Max. Reaction (lbs)	$d_e$ (in.)	Max. Reaction (lbs)	$d_e$ (in.)	Max. Reaction (lbs)
7.25	4.50	1496	4.50	1496	4.50	1572	4.50	1740	-	-
	5	1663	5	1737	5	1906	5	2007	-	-
	6	2151	6	2237	6	2281	6	2307	6	2324
	7	2402	7	2405	7	2406	7	2407	7	2408
9.5	5.75	1912	5.75	1912	5.75	1939	5.75	2183	5.75	2346
	6	1995	6	1995	6	2141	6	2344	6	2480
	7	2328	7	2565	7	2713	7	2803	7	2862
	8	2878	8	2972	8	3019	8	3047	8	3065
	9	3131	9	3140	9	3145	9	3148	9	3150
11.875	7.25	2411	7.25	2411	7.25	2477	7.25	2771	7.25	2967
	8	2660	8	2700	8	3012	8	3200	8	3324
	9	3032	9	3338	9	3490	9	3582	9	3643
	10	3598	10	3715	10	3773	10	3808	10	3832
	11	3879	11	3902	11	3905	11	3905	11	3905
14	8.50	2826	8.50	2826	8.50	2880	8.50	3235	8.50	3472
	9	2993	9	2993	9	3270	9	3547	9	3731
	10	3325	10	3591	10	3857	10	3905	10	3905
	11	3839	11	3905	11	3905	11	3905	11	3905
	12	3905	12	3905	12	3905	12	3905	12	3905
16	9.75	3242	9.75	3242	9.75	3322	9.75	3721	9.75	3905
	10	3325	10	3325	10	3525	10	3884	10	3905
	11	3658	11	3809	11	3905	11	3905	11	3905
	12	3905	12	3905	12	3905	12	3905	12	3905
	13	3905	13	3905	13	3905	13	3905	13	3905
18	11.00	3658	11.00	3658	11.00	3763	11.00	3905	11.00	3905
	12	3905	12	3905	12	3905	12	3905	12	3905
	13	3905	13	3905	13	3905	13	3905	13	3905
	14	3905	14	3905	14	3905	14	3905	14	3905
	15	3905	15	3905	15	3905	15	3905	15	3905