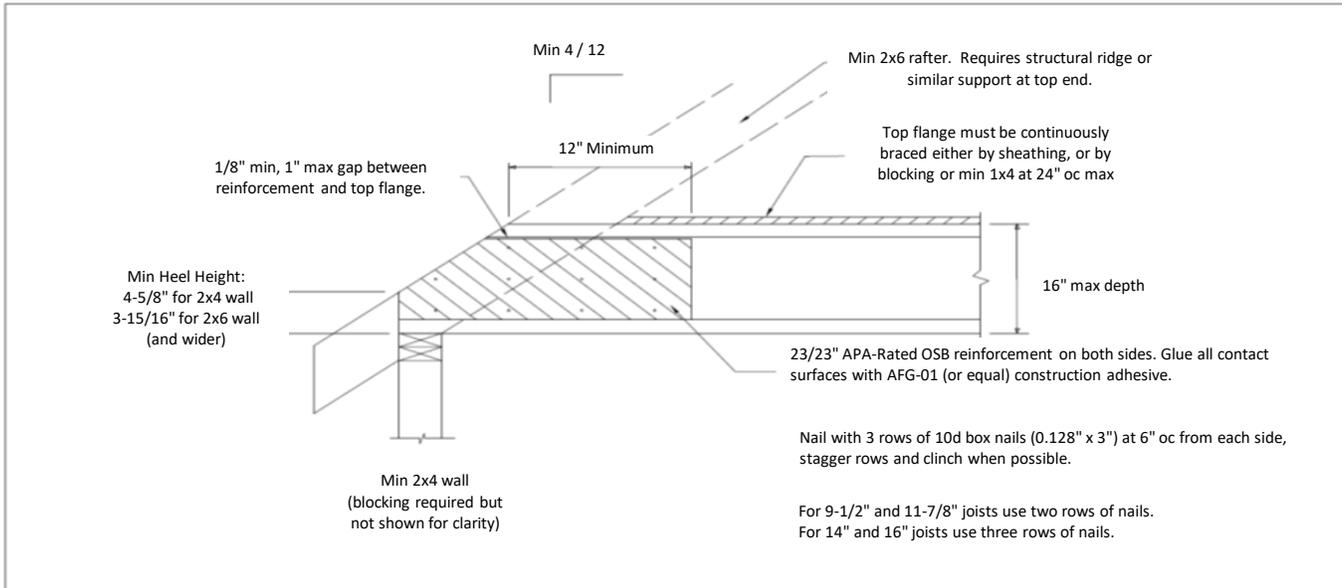


This Tech Note must be used in conjunction with the appropriate Pacific Woodtech Technical Guide.

Canadian (LSD) Bevel/Scarf Cut Detail and Maximum Reaction Table and Reinforcing Detail



Bevel Cut I-Joist Factored Reaction and Bearing Resistance (lbs)

Depth	Series	by Roof Pitch (x:12)					Factored Shear (lb)
		4	6	8	10	12	
9 1/2	PWI-18S	952	1,078	1,190	1,316	1,421	1,582
	PWI-20S	1,057	1,197	1,323	1,463	1,589	1,764
	PWI-32S	1,057	1,197	1,323	1,463	1,589	1,764
11 7/8	PWI-18S	1,120	1,274	1,400	1,554	1,680	1,869
	PWI-20S	1,246	1,414	1,561	1,729	1,869	2,079
	PWI-32S	1,246	1,414	1,561	1,729	1,869	2,079
	PWI-36L	1,246	1,414	1,561	1,729	1,869	2,079
	PWI-42S	1,365	1,547	1,708	1,890	2,051	2,275
	PWI-56L	1,365	1,547	1,708	1,890	2,051	2,275
14	PWI-20S	1,414	1,596	1,764	1,953	2,114	2,352
	PWI-32S	1,414	1,596	1,764	1,953	2,114	2,352
	PWI-36L	1,414	1,596	1,764	1,953	2,114	2,352
	PWI-42S	1,575	1,785	1,967	2,177	2,366	2,625
	PWI-56L	1,575	1,785	1,967	2,177	2,366	3,262
16	PWI-20S	1,568	1,778	1,967	2,170	2,359	2,618
	PWI-32S	1,568	1,778	1,967	2,170	2,359	2,618
	PWI-36L	1,568	1,778	1,967	2,170	2,359	2,618
	PWI-42S	1,778	2,016	2,219	2,457	2,667	2,961
	PWI-56L	1,778	2,016	2,219	2,457	2,667	2,961

Notes:

1. Reaction and Bearing Resistance are for standard load duration and shall be reduced according to code for longer loading duration.
2. The live load component of the reaction must be greater than the dead load component.
3. The tabulated reaction capacity may be increased for a heel height greater than the minimum required. Interpolation between the tabulated capacity and full joist shear is permitted (see example). Reinforcement is still required as shown above.

Example:

A 16" LPI 42S with a 9" heel height and a 6:12 bevel cut on a 2x4 wall
 Tabulated Reaction Capacity with minimum heel height = 2520 lb
 Full Joist Shear = 3711 lb
 Minimum Required Heel Height = 4.625"
 Reaction Capacity w/ 9" heel height = 3711 lb - (3711 lb - 2520 lb) * (16" - 9") / (16" - 4.625") = 2978 lb

Our literature is updated frequently, so please visit www.pacificwoodtech.com for the most current version of our specifications.

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Valid until: April, 2024