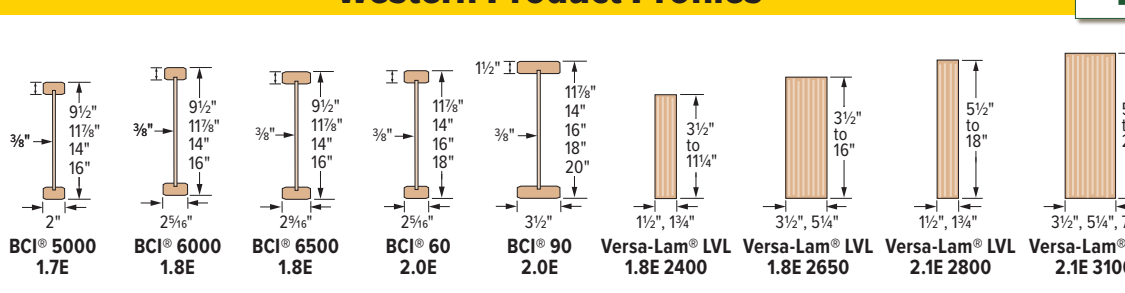


Western Product Profiles



Some products may not be available in all markets; contact your Boise Cascade EWP representative for availability. BCI joists and Versa-Lam LVL products shall be installed in dry-use applications only, per their respective ICC-ES/ESAPR ESR evaluation reports.

Residential Floor Span Tables

About Floor Performance

Homeowner's expectations and opinions vary greatly due to the subjective nature of rating a new floor. Communication with the ultimate end user to determine their expectations is critical. Whether it usually results in a complaint, installing lateral bracing may occur if an installed properly. Spacing the joists closer together does little to affect the perception of the floor's performance. The most common methods used to increase the performance and reduce vibration of wood floor systems is to increase the joist depth, limit joist deflection, glue and screw a thicker, tongue-and-groove surface, install the joist vertically, and level the joist supports and install a leveling compound on the bottom flanges of the joists.

The floor span tables listed below offer three different performance options, based on performance requirements of the homeowner.

Joist Depth	BCI [®] Series	*** THREE STAR ***			**** FOUR STAR ****			CAUTION * MINIMUM STIFFNESS ALLOWED BY CODE * CAUTION		
		12" o.c.	16" o.c.	24" o.c.	12" o.c.	16" o.c.	24" o.c.	12" o.c.	16" o.c.	24" o.c.
5000	17-11	15-2	14-9	13-6	17-11	11-6	10-9	10-9	10-9	10-9
91*	6000	17-11	16-5	15-6	14-5	13-2	11-6	11-6	10-9	9-10
6500	18-5	16-10	15-11	14-10	13-6	11-6	11-6	10-9	10-9	10-9
5000	15-2	13-1	12-11	11-6	10-9	9-10	12-11	11-6	10-9	9-10
6000	21-3	19-5	18-4	17-1	14-10	15-6	14-3	13-2	23-6	21-6
11*	6500	21-11	20-0	18-11	17-1	14-10	16-0	15-7	14-9	13-12
60.0	23-3	21-3	20-1	18-8	16-4	18-6	16-3	15-7	14-6	13-2
90.0	26-3	22-11	22-6	20-11	19-1	19-9	17-6	16-4	14-8	12-9
6000	18-5	16-10	15-11	14-10	13-6	11-6	11-6	10-9	10-9	10-9
6000	24-2	22-2	20-11	19-6	15-6	18-11	17-1	16-3	15-2	13-9
14*	6500	24-10	23-1	21-5	20-0	15-6	19-5	17-9	16-8	14-11
60.0	26-5	24-2	22-9	21-3	18-4	20-8	18-10	17-1	16-5	14-11
90.0	29-5	27-1	25-6	23-8	19-6	23-2	21-1	19-9	18-4	16-7
6000	18-5	16-10	15-11	14-10	13-6	11-6	11-6	10-9	10-9	10-9
6000	27-5	25-1	23-8	21-1	19-9	21-6	19-9	18-5	17-1	15-9
60.0	29-3	26-8	25-2	21-10	16-4	22-10	20-19	19-1	18-2	16-4
90.0	32-11	29-11	28-2	26-2	19-9	25-8	23-11	20-3	18-4	16-8
18*	90.0	35-11	32-6	30-9	28-7	23-10	21-1	20-5	19-1	17-9

* Span table is based on residential floor loads of 40 psf live load and 10 psf dead load (2 psf dead load for BCI[®] 90.0 joists).

Span values assume 2x32 min. plywood/OSB rated sheathing in glue and nailed to joists for composite action (joists spaced at 24" o.c. require sheathing rating for such spacing, such as 1/4" plywood/OSB).

Span values represent the most restrictive or multiple span application.

Span values are the maximum allowable clear distance between supports.

Table values assume minimum bearing lengths without stiffeners for joist depths of 12", 16" and less; 18" and 20" joists require web stiffeners at all bearing locations.

From this table will increase dead load and may require specific deflection limits, contact Boise Cascade EWP Engineering for further information.

This table was designed to apply to a broad range of applications. It may be possible to exceed this table by analyzing a specific application with the BC Calc[®] software.

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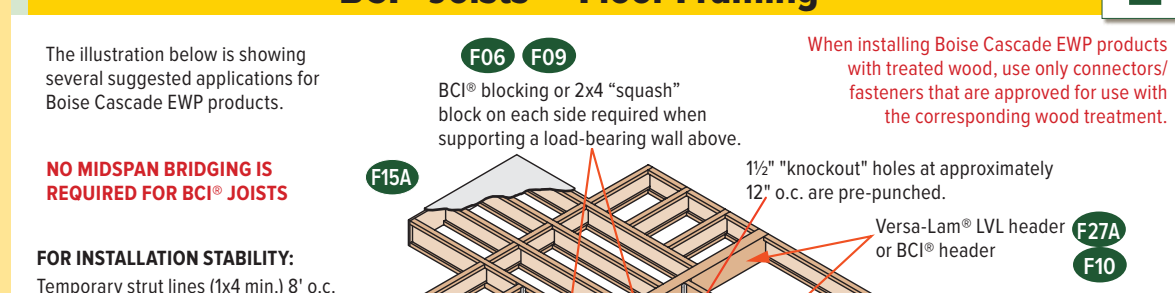
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BCI[®] Joists — Floor Framing



The illustration below is showing several suggested applications for Boise Cascade EWP products.

NO MIDSPAN BRIDGING IS REQUIRED FOR BCI JOISTS

FOR INSTALLATION STABILITY: Temporary strut lines (1x4 min.) 8' o.c. max. Fasten at each joint with two 8d nails minimum.

BCI rim joist - see Floor Details below

Boise Cascade Rimboard: see Panel A and/or the Specifier Guide for your region.

Dimensional lumber is not suitable for use as a rim board in BCI[®] floor systems.

End-wall blocking as required per Boise Cascade code

BCI blocking is required when joists are cantilevered.

Additional floor framing details available with BC Framer[®] software.

For joist types, floor joist blocking per IRC S602.7

See Boise Cascade's Specifier guide for more information on ledger fastener requirements.

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