



Hole location is minimum distance from inside face of support to nearest edge of hole.

**DO NOT** cut or drill flanges.

**Allowable Hole Location for all BLJ Joists (Simple or Multiple Span)**

Joist Depth	Joist Clear Span	Hole Diameter													
		2"	3"	4"	5"	6¼"	7"	8"	8¾"	9"	10"	10¾"	11"	12"	12¾"
9½"	10'	0'-6"	0'-6"	0'-9"	1'-9"	3'-3"									
	12'	0'-6"	1'-3"	2'-3"	3'-3"	4'-6"									
	14'	0'-6"	1'-0"	2'-3"	3'-6"	5'-6"									
	16'	0'-6"	0'-6"	2'-0"	3'-6"	5'-9"									
11⅞"	12'	0'-6"	0'-6"	0'-9"	1'-0"	1'-9"	2'-6"	3'-9"	4'-6"						
	14'	0'-6"	0'-6"	0'-9"	1'-9"	3'-3"	4'-0"	5'-3"	6'-0"						
	16'	0'-6"	1'-3"	2'-3"	3'-3"	4'-6"	5'-6"	6'-6"	7'-6"						
	18'	1'-6"	2'-6"	3'-6"	4'-6"	6'-0"	6'-9"	8'-0"							
	20'	0'-9"	2'-0"	3'-3"	4'-6"	6'-3"	7'-3"	8'-9"							
	22'	1'-6"	2'-9"	4'-0"	5'-6"	7'-3"	8'-3"	9'-9"							
14"	14'	0'-6"	0'-6"	0'-9"	1'-0"	1'-0"	1'-6"	2'-6"	3'-3"	3'-9"	4'-9"	5'-9"			
	16'	0'-6"	0'-6"	0'-9"	1'-0"	2'-0"	2'-9"	4'-0"	4'-6"	5'-0"	6'-3"	7'-3"			
	18'	0'-6"	0'-6"	1'-0"	2'-0"	3'-3"	4'-3"	5'-3"	6'-0"	6'-6"	7'-9"				
	20'	0'-6"	0'-6"	0'-9"	1'-6"	3'-0"	4'-0"	5'-3"	6'-3"	6'-9"	8'-6"				
	22'	0'-6"	0'-6"	1'-6"	2'-9"	4'-3"	5'-6"	6'-9"	7'-9"	8'-3"	10'-0"				
	24'	0'-6"	1'-0"	2'-3"	3'-6"	5'-3"	6'-3"	7'-9"	8'-9"	9'-3"	10'-9"				
	26'	0'-6"	0'-6"	1'-0"	2'-6"	4'-6"	5'-9"	7'-6"	8'-6"	9'-3"	11'-3"				
	28'	0'-6"	0'-9"	2'-3"	3'-9"	5'-9"	7'-0"	8'-9"	10'-0"	10'-6"	12'-6"				
16"	14'	0'-6"	0'-6"	0'-9"	1'-0"	1'-0"	1'-0"	1'-0"	1'-3"	2'-6"	3'-3"	3'-6"	4'-9"	5'-6"	
	16'	0'-6"	0'-6"	0'-9"	1'-0"	1'-0"	1'-0"	1'-6"	2'-3"	2'-9"	3'-9"	4'-6"	5'-0"	6'-3"	7'-0"
	18'	0'-6"	0'-6"	0'-9"	1'-0"	1'-0"	2'-0"	3'-0"	3'-6"	4'-0"	5'-3"	6'-0"	6'-3"	7'-6"	
	20'	0'-6"	0'-6"	0'-9"	1'-3"	2'-6"	3'-3"	4'-3"	5'-0"	5'-6"	6'-6"	7'-6"	7'-9"	9'-0"	
	22'	0'-6"	0'-6"	0'-9"	1'-0"	1'-9"	2'-9"	4'-0"	4'-9"	5'-3"	6'-9"	7'-9"	8'-3"	9'-9"	
	24'	0'-6"	0'-6"	0'-9"	1'-6"	3'-0"	4'-0"	5'-3"	6'-0"	6'-9"	8'-0"	9'-3"	9'-9"	11'-3"	
	26'	0'-6"	0'-6"	0'-9"	2'-0"	3'-9"	4'-9"	6'-0"	7'-0"	7'-6"	9'-0"	10'-3"	10'-6"	12'-3"	
	28'	0'-6"	0'-6"	0'-9"	1'-0"	2'-6"	3'-6"	5'-3"	6'-3"	7'-0"	8'-9"	10'-3"	10'-9"	12'-9"	
	30'	0'-6"	0'-6"	0'-9"	1'-9"	3'-9"	5'-0"	6'-6"	7'-6"	8'-3"	10'-0"	11'-6"	11'-9"	13'-9"	
	32'	0'-6"	0'-6"	0'-9"	1'-0"	2'-3"	3'-6"	5'-6"	6'-9"	7'-6"	9'-6"	11'-0"	11'-6"	13'-9"	
18"	16'	0'-6"	0'-6"	0'-9"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-6"	2'-3"	2'-6"	3'-6"	4'-6"	
	18'	0'-6"	0'-6"	0'-9"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-6"	2'-6"	3'-3"	3'-9"	4'-9"	5'-9"
	20'	0'-6"	0'-6"	0'-9"	1'-0"	1'-0"	1'-0"	1'-9"	2'-3"	2'-9"	3'-9"	4'-9"	5'-0"	6'-3"	7'-3"
	22'	0'-6"	0'-6"	0'-9"	1'-0"	1'-0"	1'-0"	1'-0"	1'-6"	2'-0"	3'-6"	4'-6"	4'-9"	6'-3"	7'-6"
	24'	0'-6"	0'-6"	0'-9"	1'-0"	1'-0"	1'-0"	2'-0"	3'-0"	3'-3"	4'-9"	5'-9"	6'-3"	7'-9"	8'-9"
	26'	0'-6"	0'-6"	0'-9"	1'-0"	1'-0"	1'-0"	2'-0"	2'-9"	3'-3"	4'-9"	6'-0"	6'-3"	8'-0"	9'-3"
	28'	0'-6"	0'-6"	0'-9"	1'-0"	1'-0"	1'-0"	1'-3"	2'-3"	3'-0"	4'-9"	6'-0"	6'-6"	8'-3"	9'-9"
	30'	0'-6"	0'-6"	0'-9"	1'-0"	1'-0"	1'-0"	2'-6"	3'-9"	4'-3"	6'-0"	7'-3"	7'-9"	9'-9"	11'-3"
	32'	0'-6"	0'-6"	0'-9"	1'-0"	1'-0"	1'-0"	1'-0"	1'-9"	2'-6"	4'-6"	6'-0"	6'-6"	8'-9"	10'-6"
	34'	0'-6"	0'-6"	0'-9"	1'-0"	1'-0"	1'-0"	1'-0"	2'-0"	2'-9"	4'-9"	6'-6"	7'-0"	9'-3"	11'-3"

**NOTES:**

- Hole locations are based on uniform loads of 40 psf live and 10 or 20 psf dead, and worst case of simple or multiple spans from page 7.
- For joist clear spans between those shown, check minimum distance for both spans adjacent to that span, and use the larger distance. Example: 7" diameter hole in 16" joist clear spanning 21'-9". At 20', tabulated distance is 3'-3"; at 22', distance is 2'-9". Use 3'-3" as minimum distance.
- For multiple span applications, use longest span to determine permissible hole locations in either span.
- Holes may be placed vertically anywhere in web, but a minimum clearance of 1/8" must be maintained from flange.
- To determine locations for rectangular holes, multiply longest side of rectangular hole by 1.33 and use table to find location for that round hole diameter. Then add (round hole diameter – rectangular hole length) / 2. Example: for a rectangular hole 4" long and 6" high, the longest side is 6", so the round hole diameter to look up would be 1.33 x 6, or 8". Say the tabulated minimum distance for the 8" hole is 10'-0". Adding (8" - 4") / 2, or 2" gives a minimum distance of 10'-2" for the rectangular hole.
- Small holes (1½" diameter and less) may be located anywhere in web if: A) Spaced a

minimum horizontal clear distance of 2 diameters, but no less than 1", from any hole, B) No more than 2 small holes are placed next to each other and/or adjacent to larger holes, and C) Adjacent groups of small holes are spaced a minimum horizontal clear distance of 12".

- Holes larger than 1½" diameter must meet the following requirements for minimum clear distance between holes: A) Two round holes - 2 times the larger hole diameter. B) A rectangular hole and a round hole - 2 times the hole diameter or 2 times the rectangular hole width, whichever is greater.
- Multiple round holes grouped closely together may be considered as a single hole circumscribing them.
- For other conditions, or for more precise hole locations, use Doma Sizer™ software.

**EXAMPLE:**

Determine the allowable location for an 8" round hole in an 11⅞" BLJ 60 joist spanning 17'-4". In the leftmost column locate the joist depth of 11⅞". In the next column, find both the 16' row and the 18' row. Following the 16' row across to the column for an 8" diameter hole yields a distance of 6'-6". The 18' row yields a distance of 8'-0". The larger distance controls, so 8'-0" is the minimum clear distance for an 8" round hole.