

Series	Loads	Depth (in)	Clear Span (ft)	Distance from End/Interior Support							
				Hole Diameter							
				2"	3"	4"	5"	6"	8"	10"	12"
IB400	40 psf Live Load; 15 psf Dead Load; SINGLE & MULTIPLE SPANS	7.875	8	0'-7"	0'-8"	0'-8"					
			10	0'-7"	0'-8"	1'-4"					
			12	0'-7"	1'-2"	2'-8"					
			14	1'-1"	2'-6"	4'-1"					
			16	2'-4"	3'-10"	5'-6"					
			18	3'-8"	5'-3"	6'-11"					
			20	5'-1"	6'-8"	8'-5"					
		8.625	8	0'-7"	0'-8"	0'-8"	0'-10"				
			10	0'-7"	0'-8"	0'-10"	2'-2"				
			12	0'-7"	0'-10"	2'-2"	3'-7"				
			14	0'-10"	2'-2"	3'-6"	5'-0"				
			16	2'-1"	3'-6"	4'-11"	6'-5"				
			18	3'-5"	4'-10"	6'-4"	7'-11"				
			20	4'-10"	6'-3"	7'-10"	9'-5"				
		9.5	10	0'-7"	0'-8"	0'-8"	1'-5"	2'-9"			
			12	0'-7"	0'-8"	1'-6"	2'-9"	4'-2"			
			14	0'-7"	1'-7"	2'-10"	4'-2"	5'-7"			
			16	1'-8"	2'-11"	4'-3"	5'-7"	7'-1"			
			18	3'-0"	4'-3"	5'-7"	7'-1"	8'-7"			
			20	4'-4"	5'-8"	7'-1"	8'-6"				
			22	5'-8"	7'-1"	8'-6"	10'-0"				
		11.875	12	0'-7"	0'-8"	0'-8"	0'-9"	1'-2"	3'-9"		
			14	0'-7"	0'-8"	0'-8"	1'-3"	2'-6"	5'-2"		
			16	0'-7"	0'-8"	1'-4"	2'-6"	3'-10"	6'-7"		
			18	0'-7"	1'-5"	2'-7"	3'-11"	5'-2"	8'-1"		
			20	1'-5"	2'-8"	3'-11"	5'-3"	6'-7"	9'-7"		
			22	2'-9"	4'-0"	5'-4"	6'-8"	8'-1"			
			24	4'-1"	5'-4"	6'-8"	8'-1"	9'-6"			
		14	14	0'-7"	0'-8"	0'-8"	0'-9"	0'-9"	2'-4"	5'-0"	
			16	0'-7"	0'-8"	0'-8"	0'-9"	1'-3"	3'-9"	6'-6"	
			18	0'-7"	0'-8"	0'-8"	1'-3"	2'-6"	5'-1"	8'-0"	
			20	0'-7"	0'-8"	1'-4"	2'-7"	3'-10"	6'-6"	9'-6"	
			22	0'-7"	1'-5"	2'-8"	3'-11"	5'-2"	7'-11"	11'-0"	
			24	1'-6"	2'-9"	4'-0"	5'-3"	6'-7"	9'-5"		
			26	2'-10"	4'-1"	5'-4"	6'-8"	8'-0"	10'-11"		
		16	16	0'-7"	0'-8"	0'-8"	0'-9"	0'-9"	1'-4"	3'-10"	6'-7"
			18	0'-7"	0'-8"	0'-8"	0'-9"	0'-9"	2'-7"	5'-2"	8'-1"
			20	0'-7"	0'-8"	0'-8"	0'-9"	1'-5"	3'-11"	6'-7"	9'-7"
			22	0'-7"	0'-8"	0'-8"	1'-6"	2'-9"	5'-3"	8'-0"	
			24	0'-7"	0'-8"	1'-7"	2'-10"	4'-1"	6'-8"	9'-6"	
			26	0'-7"	1'-8"	2'-11"	4'-2"	5'-5"	8'-1"	11'-0"	
			28	1'-9"	2'-11"	4'-2"	5'-6"	6'-9"	9'-6"	12'-5"	

Notes:

- Table may be used for I-joist spacing 24 inches on centre or less. Design loads indicated in table heading are unfactored. Lower design dead loads may safely be used with this table. Spans must also be verified with IB U.S.-ASD span tables. For example, an IB400 spans 9 1/2" deep at 24" o.c. may only be capable of spanning 14'.
- Hole location distance is measured from inside face of supports to centre of hole.
- Distances in this chart are based on uniformly loaded joists.
- Joists with web hole location and/or sizes and spans that fall outside of the scope of this table must be analyzed based on the actual hole size, joist spacing, span and loading condition. I-joist shear resistance at the location of the circular web hole is calculated using the following equation: V (round hole) = Published shear resistance $\times [(D-d)/D]$ where d = joist depth; D = hole diameter
- I-joist top and bottom flanges must NEVER be cut, notched or otherwise modified.
- Whenever possible field-cut holes be centred on the middle of the web.
- The maximum size hole that can be cut into an I-joist web shall equal the clear distance between the I-joist flanges minus 1/4 inch. A minimum 1/8 inch should be maintained between the top or bottom of the hole and the adjacent I-joist flange.
- The sides of square holes or longest sides of rectangular holes should not exceed three fourths of the diameter of the maximum round hole permitted at the location.
- Where more than one hole is necessary, the distance between adjacent hole edges shall exceed twice the diameter of the largest round hole or twice the size of the largest square hole (or twice the length of the longest side of the largest rectangular hole) and each hole must be sized and located in compliance with the requirements of this table. A knockout is not considered a hole and may be utilized anywhere it occurs and may be ignored for purposes of calculating minimum distances between holes.
- 1 1/2-inch holes shall be permitted anywhere in a cantilevered section of an IB I-joist. Holes of greater size may be permitted subject to verification.
- A 1 1/2-inch hole can be placed anywhere in the web provided that it meets the requirements of 9 above. Multiple 1 1/2-inch diameter web holes in a horizontal row shall be permitted if they meet the requirements of note 9 and cover a length of 24 inches or less. Multiple 1 1/2-inch diameter web holes covering a length greater than 24 inches may be permitted subject to verification.
- All holes shall be cut in a workman-like manner in accordance with the restrictions listed above. For rectangular holes, avoid over cutting the corners. Slightly rounding the corners is recommended. Starting the rectangular hole by drilling a 1" diameter hole in each of the 4 corners and then making the cuts between holes is a good method to minimize damage to the joist.
- Limit three maximum-size holes per span.
- A group of round holes at approximately the same location shall be permitted if they meet the requirements for a single round hole circumscribed around them.
- For I-joists with more than one span, use the longest span to determine hole locations in either span.
- Refer to IB EWP Inc. Design Software for other hole sizes and locations.



July 2, 2026

Shunyu

Series	Loads	Depth (in)	Clear Span (ft)	Distance from End/Interior Support							
				Hole Diameter							
				2"	3"	4"	5"	6"	8"	10"	12"
IB450	40 psf Live Load; 15 psf Dead Load; SINGLE & MULTIPLE SPANS	9.5	10	0'-7"	0'-8"	0'-8"	0'-9"	1'-11"			
			12	0'-7"	0'-8"	0'-8"	1'-9"	3'-3"			
			14	0'-7"	0'-8"	1'-7"	3'-1"	4'-8"			
			16	0'-7"	1'-6"	2'-11"	4'-6"	6'-2"			
			18	1'-4"	2'-10"	4'-4"	5'-11"	7'-7"			
			20	2'-8"	4'-2"	5'-8"	7'-4"	9'-1"			
			22	4'-0"	5'-6"	7'-1"	8'-10"	10'-8"			
		11.875	12	0'-7"	0'-8"	0'-8"	0'-9"	0'-9"	3'-3"		
			14	0'-7"	0'-8"	0'-8"	0'-9"	1'-9"	4'-8"		
			16	0'-7"	0'-8"	0'-8"	1'-9"	3'-1"	6'-1"		
			18	0'-7"	0'-8"	1'-9"	3'-1"	4'-6"	7'-7"		
			20	0'-7"	1'-8"	3'-0"	4'-5"	5'-11"	9'-0"		
			22	1'-8"	3'-0"	4'-4"	5'-10"	7'-4"	10'-7"		
		14	24	2'-11"	4'-4"	5'-9"	7'-2"	8'-9"			
			14	0'-7"	0'-8"	0'-8"	0'-9"	0'-9"	2'-1"	4'-10"	
			16	0'-7"	0'-8"	0'-8"	0'-9"	0'-10"	3'-5"	6'-3"	
			18	0'-7"	0'-8"	0'-8"	0'-11"	2'-2"	4'-10"	7'-9"	
			20	0'-7"	0'-8"	0'-11"	2'-2"	3'-6"	6'-3"	9'-3"	
			22	0'-7"	0'-11"	2'-3"	3'-6"	4'-10"	7'-8"	10'-9"	
		16	24	1'-0"	2'-3"	3'-6"	4'-10"	6'-2"	9'-1"		
			26	2'-3"	3'-7"	4'-10"	6'-2"	7'-7"	10'-7"		
			16	0'-7"	0'-8"	0'-8"	0'-9"	0'-9"	1'-4"	3'-10"	6'-7"
			18	0'-7"	0'-8"	0'-8"	0'-9"	0'-9"	2'-7"	5'-2"	8'-1"
			20	0'-7"	0'-8"	0'-8"	0'-9"	1'-5"	3'-11"	6'-7"	9'-7"
			22	0'-7"	0'-8"	0'-8"	1'-6"	2'-9"	5'-3"	8'-0"	
			24	0'-7"	0'-8"	1'-7"	2'-10"	4'-1"	6'-8"	9'-6"	
			26	0'-7"	1'-8"	2'-11"	4'-2"	5'-5"	8'-1"	11'-0"	
			28	1'-9"	2'-11"	4'-2"	5'-6"	6'-9"	9'-6"	12'-5"	

Notes:

- Table may be used for I-joist spacing 24 inches on centre or less. Design loads indicated in table heading are unfactored. Lower design dead loads may safely be used with this table. Spans must also be verified with IB U.S.-ASD span tables. For example, an IB450 spans 9 1/2" deep at 24" o.c. may only be capable of spanning 14'.
- Hole location distance is measured from inside face of supports to centre of hole.
- Distances in this chart are based on uniformly loaded joists.
- Joists with web hole location and/or sizes and spans that fall outside of the scope of this table must be analyzed based on the actual hole size, joist spacing, span and loading condition. I-joist shear resistance at the location of the circular web hole is calculated using the following equation: V (round hole) = Published shear resistance $\times [(D-d)/D]$ where d = joist depth; D = hole diameter
- I-joist top and bottom flanges must NEVER be cut, notched or otherwise modified.
- Whenever possible field-cut holes be centred on the middle of the web.
- The maximum size hole that can be cut into an I-joist web shall equal the clear distance between the I-joist flanges minus 1/4 inch. A minimum 1/8 inch should be maintained between the top or bottom of the hole and the adjacent I-joist flange.
- The sides of square holes or longest sides of rectangular holes should not exceed three fourths of the diameter of the maximum round hole permitted at the location.
- Where more than one hole is necessary, the distance between adjacent hole edges shall exceed twice the diameter of the largest round hole or twice the size of the largest square hole (or twice the length of the longest side of the largest rectangular hole) and each hole must be sized and located in compliance with the requirements of this table. A knockout is not considered a hole and may be utilized anywhere it occurs and may be ignored for purposes of calculating minimum distances between holes.
- 1 1/2-inch holes shall be permitted anywhere in a cantilevered section of an IB I-joist. Holes of greater size may be permitted subject to verification.
- A 1 1/2-inch hole can be placed anywhere in the web provided that it meets the requirements of 9 above. Multiple 1 1/2-inch diameter web holes in a horizontal row shall be permitted if they meet the requirements of note 9 and cover a length of 24 inches or less. Multiple 1 1/2-inch diameter web holes covering a length greater than 24 inches may be permitted subject to verification.
- All holes shall be cut in a workman-like manner in accordance with the restrictions listed above. For rectangular holes, avoid over cutting the corners. Slightly rounding the corners is recommended. Starting the rectangular hole by drilling a 1" diameter hole in each of the 4 corners and then making the cuts between holes is a good method to minimize damage to the joist.
- Limit three maximum-size holes per span.
- A group of round holes at approximately the same location shall be permitted if they meet the requirements for a single round hole circumscribed around them.
- For I-joists with more than one span, use the longest span to determine hole locations in either span.
- Refer to IB EWP Inc. Design Software for other hole sizes and locations.



July 2, 2026

Shunmy

Series	Loads	Depth (in)	Clear Span (ft)	Distance from End/Interior Support							
				Hole Diameter							
				2"	3"	4"	5"	6"	8"	10"	12"
IB600	40 psf Live Load; 15 psf Dead Load; SINGLE & MULTIPLE SPANS	7.875	8	0'-7"	0'-8"	0'-8"					
			10	0'-7"	0'-8"	1'-4"					
			12	0'-7"	1'-2"	2'-8"					
			14	1'-1"	2'-6"	4'-1"					
			16	2'-4"	3'-10"	5'-6"					
			18	3'-8"	5'-3"	6'-11"					
			20	5'-1"	6'-8"	8'-5"					
		8.625	8	0'-7"	0'-8"	0'-8"	0'-10"				
			10	0'-7"	0'-8"	0'-10"	2'-2"				
			12	0'-7"	0'-10"	2'-2"	3'-7"				
			14	0'-10"	2'-2"	3'-6"	5'-0"				
			16	2'-1"	3'-6"	4'-11"	6'-5"				
			18	3'-5"	4'-10"	6'-4"	7'-11"				
			20	4'-10"	6'-3"	7'-10"	9'-5"				
		9.5	10	0'-7"	0'-8"	0'-8"	0'-9"	2'-0"			
			12	0'-7"	0'-8"	0'-8"	1'-11"	3'-5"			
			14	0'-7"	0'-8"	1'-9"	3'-3"	4'-10"			
			16	0'-7"	1'-8"	3'-1"	4'-8"	6'-3"			
			18	1'-7"	3'-0"	4'-6"	6'-1"	7'-9"			
			20	2'-11"	4'-4"	5'-11"	7'-6"	9'-3"			
			22	4'-3"	5'-9"	7'-4"	9'-0"	10'-9"			
		11.875	12	0'-7"	0'-8"	0'-8"	0'-9"	0'-9"	3'-5"		
			14	0'-7"	0'-8"	0'-8"	0'-9"	2'-0"	4'-10"		
			16	0'-7"	0'-8"	0'-9"	2'-0"	3'-4"	6'-3"		
			18	0'-7"	0'-9"	2'-0"	3'-4"	4'-9"	7'-9"		
			20	0'-9"	2'-0"	3'-4"	4'-9"	6'-2"	9'-3"		
			22	2'-0"	3'-4"	4'-8"	6'-1"	7'-7"	10'-9"		
			24	3'-4"	4'-8"	6'-1"	7'-6"	9'-0"			
		14	14	0'-7"	0'-8"	0'-8"	0'-9"	0'-9"	2'-4"	5'-0"	
			16	0'-7"	0'-8"	0'-8"	0'-9"	1'-3"	3'-9"	6'-6"	
			18	0'-7"	0'-8"	0'-8"	1'-3"	2'-6"	5'-1"	8'-0"	
			20	0'-7"	0'-8"	1'-4"	2'-7"	3'-10"	6'-6"	9'-6"	
			22	0'-7"	1'-5"	2'-8"	3'-11"	5'-2"	7'-11"	11'-0"	
			24	1'-6"	2'-9"	4'-0"	5'-3"	6'-7"	9'-5"		
			26	2'-10"	4'-1"	5'-4"	6'-8"	8'-0"	10'-11"		
		16	16	0'-7"	0'-8"	0'-8"	0'-9"	0'-9"	1'-4"	3'-10"	6'-7"
			18	0'-7"	0'-8"	0'-8"	0'-9"	0'-9"	2'-7"	5'-2"	8'-1"
			20	0'-7"	0'-8"	0'-8"	0'-9"	1'-5"	3'-11"	6'-7"	9'-7"
			22	0'-7"	0'-8"	0'-8"	1'-6"	2'-9"	5'-3"	8'-0"	
			24	0'-7"	0'-8"	1'-7"	2'-10"	4'-1"	6'-8"	9'-6"	
			26	0'-7"	1'-8"	2'-11"	4'-2"	5'-5"	8'-1"	11'-0"	
			28	1'-9"	2'-11"	4'-2"	5'-6"	6'-9"	9'-6"	12'-5"	

Notes:

- Table may be used for I-joist spacing 24 inches on centre or less. Design loads indicated in table heading are unfactored. Lower design dead loads may safely be used with this table. Spans must also be verified with IB U.S.-ASD span tables. For example, an IB600 spans 9 1/2" deep at 24" o.c. may only be capable of spanning 14'.
- Hole location distance is measured from inside face of supports to centre of hole.
- Distances in this chart are based on uniformly loaded joists.
- Joists with web hole location and/or sizes and spans that fall outside of the scope of this table must be analyzed based on the actual hole size, joist spacing, span and loading condition. I-joist shear resistance at the location of the circular web hole is calculated using the following equation: V (round hole) = Published shear resistance $\times [(D-d)/D]$ where d = joist depth; D = hole diameter
- I-joist top and bottom flanges must NEVER be cut, notched or otherwise modified.
- Whenever possible field-cut holes be centred on the middle of the web.
- The maximum size hole that can be cut into an I-joist web shall equal the clear distance between the I-joist flanges minus 1/4 inch. A minimum 1/8 inch should be maintained between the top or bottom of the hole and the adjacent I-joist flange.
- The sides of square holes or longest sides of rectangular holes should not exceed three fourths of the diameter of the maximum round hole permitted at the location.
- Where more than one hole is necessary, the distance between adjacent hole edges shall exceed twice the diameter of the largest round hole or twice the size of the largest square hole (or twice the length of the longest side of the largest rectangular hole) and each hole must be sized and located in compliance with the requirements of this table. A knockout is not considered a hole and may be utilized anywhere it occurs and may be ignored for purposes of calculating minimum distances between holes.
- 1 1/2-inch holes shall be permitted anywhere in a cantilevered section of an IB I-joist. Holes of greater size may be permitted subject to verification.
- A 1 1/2-inch hole can be placed anywhere in the web provided that it meets the requirements of 9 above. Multiple 1 1/2-inch diameter web holes in a horizontal row shall be permitted if they meet the requirements of note 9 and cover a length of 24 inches or less. Multiple 1 1/2-inch diameter web holes covering a length greater than 24 inches may be permitted subject to verification.
- All holes shall be cut in a workman-like manner in accordance with the restrictions listed above. For rectangular holes, avoid over cutting the corners. Slightly rounding the corners is recommended. Starting the rectangular hole by drilling a 1" diameter hole in each of the 4 corners and then making the cuts between holes is a good method to minimize damage to the joist.
- Limit three maximum-size holes per span.
- A group of round holes at approximately the same location shall be permitted if they meet the requirements for a single round hole circumscribed around them.
- For I-joists with more than one span, use the longest span to determine hole locations in either span.
- Refer to IB EWP Inc. Design Software for other hole sizes and locations.



July 2, 2026

EXPIRES: 06/30/2028



Series	Loads	Depth (in)	Clear Span (ft)	Distance from End/Interior Support							
				Hole Diameter							
				2"	3"	4"	5"	6"	8"	10"	12"
IB700	40 psf Live Load; 15 psf Dead Load; SINGLE & MULTIPLE SPANS	9.5	10	0'-7"	0'-8"	0'-8"	0'-9"	1'-11"			
			12	0'-7"	0'-8"	0'-8"	1'-9"	3'-3"			
			14	0'-7"	0'-8"	1'-7"	3'-1"	4'-8"			
			16	0'-7"	1'-6"	2'-11"	4'-6"	6'-2"			
			18	1'-4"	2'-10"	4'-4"	5'-11"	7'-7"			
			20	2'-8"	4'-2"	5'-8"	7'-4"	9'-1"			
			22	4'-0"	5'-6"	7'-1"	8'-10"	10'-8"			
		11.875	12	0'-7"	0'-8"	0'-8"	0'-9"	0'-9"	3'-3"		
			14	0'-7"	0'-8"	0'-8"	0'-9"	1'-9"	4'-8"		
			16	0'-7"	0'-8"	0'-8"	1'-9"	3'-1"	6'-1"		
			18	0'-7"	0'-8"	1'-9"	3'-1"	4'-6"	7'-7"		
			20	0'-7"	1'-8"	3'-0"	4'-5"	5'-11"	9'-0"		
			22	1'-8"	3'-0"	4'-4"	5'-10"	7'-4"	10'-7"		
			24	2'-11"	4'-4"	5'-9"	7'-2"	8'-9"			
		14	14	0'-7"	0'-8"	0'-8"	0'-9"	0'-9"	2'-1"	4'-10"	
			16	0'-7"	0'-8"	0'-8"	0'-9"	0'-10"	3'-5"	6'-3"	
			18	0'-7"	0'-8"	0'-8"	0'-11"	2'-2"	4'-10"	7'-9"	
			20	0'-7"	0'-8"	0'-11"	2'-2"	3'-6"	6'-3"	9'-3"	
			22	0'-7"	0'-11"	2'-3"	3'-6"	4'-10"	7'-8"	10'-9"	
			24	1'-0"	2'-3"	3'-6"	4'-10"	6'-2"	9'-1"		
			26	2'-3"	3'-7"	4'-10"	6'-2"	7'-7"	10'-7"		
		16	16	0'-7"	0'-8"	0'-8"	0'-9"	0'-9"	1'-4"	3'-10"	6'-7"
			18	0'-7"	0'-8"	0'-8"	0'-9"	0'-9"	2'-7"	5'-2"	8'-1"
			20	0'-7"	0'-8"	0'-8"	0'-9"	1'-5"	3'-11"	6'-7"	9'-7"
			22	0'-7"	0'-8"	0'-8"	1'-6"	2'-9"	5'-3"	8'-0"	
			24	0'-7"	0'-8"	1'-7"	2'-10"	4'-1"	6'-8"	9'-6"	
			26	0'-7"	1'-8"	2'-11"	4'-2"	5'-5"	8'-1"	11'-0"	
			28	1'-9"	2'-11"	4'-2"	5'-6"	6'-9"	9'-6"	12'-5"	

Notes:

- Table may be used for I-joist spacing 24 inches on centre or less. Design loads indicated in table heading are unfactored. Lower design dead loads may safely be used with this table. Spans must also be verified with IB U.S.-ASD span tables. For example, an IB700 spans 9 1/2" deep at 24" o.c. may only be capable of spanning 14'.
- Hole location distance is measured from inside face of supports to centre of hole.
- Distances in this chart are based on uniformly loaded joists.
- Joists with web hole location and/or sizes and spans that fall outside of the scope of this table must be analyzed based on the actual hole size, joist spacing, span and loading condition. I-joist shear resistance at the location of the circular web hole is calculated using the following equation: V (round hole) = Published shear resistance $\times [(D-d)/D]$ where d = joist depth; D = hole diameter
- I-joist top and bottom flanges must NEVER be cut, notched or otherwise modified.
- Whenever possible field-cut holes be centred on the middle of the web.
- The maximum size hole that can be cut into an I-joist web shall equal the clear distance between the I-joist flanges minus 1/4 inch. A minimum 1/8 inch should be maintained between the top or bottom of the hole and the adjacent I-joist flange.
- The sides of square holes or longest sides of rectangular holes should not exceed three fourths of the diameter of the maximum round hole permitted at the location.
- Where more than one hole is necessary, the distance between adjacent hole edges shall exceed twice the diameter of the largest round hole or twice the size of the largest square hole (or twice the length of the longest side of the largest rectangular hole) and each hole must be sized and located in compliance with the requirements of this table. A knockout is not considered a hole and may be utilized anywhere it occurs and may be ignored for purposes of calculating minimum distances between holes.
- 1 1/2-inch holes shall be permitted anywhere in a cantilevered section of an IB I-joist. Holes of greater size may be permitted subject to verification.
- A 1 1/2-inch hole can be placed anywhere in the web provided that it meets the requirements of 9 above. Multiple 1 1/2-inch diameter web holes in a horizontal row shall be permitted if they meet the requirements of note 9 and cover a length of 24 inches or less. Multiple 1 1/2-inch diameter web holes covering a length greater than 24 inches may be permitted subject to verification.
- All holes shall be cut in a workman-like manner in accordance with the restrictions listed above. For rectangular holes, avoid over cutting the corners. Slightly rounding the corners is recommended. Starting the rectangular hole by drilling a 1" diameter hole in each of the 4 corners and then making the cuts between holes is a good method to minimize damage to the joist.
- Limit three maximum-size holes per span.
- A group of round holes at approximately the same location shall be permitted if they meet the requirements for a single round hole circumscribed around them.
- For I-joists with more than one span, use the longest span to determine hole locations in either span.
- Refer to IB EWP Inc. Design Software for other hole sizes and locations.



July 2, 2026

Shumy

Series	Loads	Depth (in)	Clear Span (ft)	Distance from End/Interior Support							
				Hole Diameter							
				2"	3"	4"	5"	6"	8"	10"	12"
IB800	40 psf Live Load; 15 psf Dead Load; SINGLE & MULTIPLE SPANS	7.875	8	0'-7"	0'-8"	0'-8"					
			10	0'-7"	0'-8"	1'-4"					
			12	0'-7"	1'-2"	2'-8"					
			14	1'-1"	2'-6"	4'-1"					
			16	2'-4"	3'-10"	5'-6"					
			18	3'-8"	5'-3"	6'-11"					
			20	5'-1"	6'-8"	8'-5"					
		8.625	8	0'-7"	0'-8"	0'-8"	0'-10"				
			10	0'-7"	0'-8"	0'-10"	2'-2"				
			12	0'-7"	0'-10"	2'-2"	3'-7"				
			14	0'-10"	2'-2"	3'-6"	5'-0"				
			16	2'-1"	3'-6"	4'-11"	6'-5"				
			18	3'-5"	4'-10"	6'-4"	7'-11"				
			20	4'-10"	6'-3"	7'-10"	9'-5"				
		9.5	10	0'-7"	0'-8"	0'-8"	0'-9"	1'-11"			
			12	0'-7"	0'-8"	0'-8"	1'-9"	3'-3"			
			14	0'-7"	0'-8"	1'-7"	3'-1"	4'-8"			
			16	0'-7"	1'-5"	2'-11"	4'-6"	6'-1"			
			18	1'-4"	2'-9"	4'-3"	5'-11"	7'-7"			
			20	2'-7"	4'-1"	5'-8"	7'-4"	9'-1"			
			22	3'-11"	5'-6"	7'-1"	8'-9"	10'-7"			
		11.875	12	0'-7"	0'-8"	0'-8"	0'-9"	0'-9"	3'-4"		
			14	0'-7"	0'-8"	0'-8"	0'-9"	1'-11"	4'-9"		
			16	0'-7"	0'-8"	0'-8"	1'-11"	3'-3"	6'-2"		
			18	0'-7"	0'-8"	1'-11"	3'-3"	4'-8"	7'-8"		
			20	0'-7"	1'-11"	3'-3"	4'-7"	6'-0"	9'-2"		
			22	1'-11"	3'-2"	4'-7"	6'-0"	7'-6"	10'-8"		
			24	3'-2"	4'-7"	5'-11"	7'-5"	8'-11"			
		14	14	0'-7"	0'-8"	0'-8"	0'-9"	0'-9"	2'-0"	4'-9"	
			16	0'-7"	0'-8"	0'-8"	0'-9"	0'-9"	3'-4"	6'-3"	
			18	0'-7"	0'-8"	0'-8"	0'-9"	2'-1"	4'-9"	7'-8"	
			20	0'-7"	0'-8"	0'-10"	2'-1"	3'-4"	6'-1"	9'-2"	
			22	0'-7"	0'-10"	2'-1"	3'-4"	4'-9"	7'-7"	10'-8"	
			24	0'-10"	2'-1"	3'-5"	4'-9"	6'-1"	9'-0"		
			26	2'-1"	3'-5"	4'-9"	6'-1"	7'-6"	10'-5"		
		16	16	0'-7"	0'-8"	0'-8"	0'-9"	0'-9"	1'-0"	3'-6"	6'-4"
			18	0'-7"	0'-8"	0'-8"	0'-9"	0'-9"	2'-3"	4'-11"	7'-10"
			20	0'-7"	0'-8"	0'-8"	0'-9"	1'-0"	3'-7"	6'-4"	9'-4"
			22	0'-7"	0'-8"	0'-8"	1'-1"	2'-4"	4'-11"	7'-9"	10'-10"
			24	0'-7"	0'-8"	1'-1"	2'-4"	3'-8"	6'-4"	9'-2"	
			26	0'-7"	1'-2"	2'-5"	3'-8"	5'-0"	7'-8"	10'-8"	
			28	1'-2"	2'-5"	3'-8"	5'-0"	6'-4"	9'-1"	12'-2"	

Notes:

- Table may be used for I-joist spacing 24 inches on centre or less. Design loads indicated in table heading are unfactored. Lower design dead loads may safely be used with this table. Spans must also be verified with IB U.S.-ASD span tables. For example, an IB800 spans 9 1/2" deep at 24" o.c. may only be capable of spanning 14'.
- Hole location distance is measured from inside face of supports to centre of hole.
- Distances in this chart are based on uniformly loaded joists.
- Joists with web hole location and/or sizes and spans that fall outside of the scope of this table must be analyzed based on the actual hole size, joist spacing, span and loading condition. I-joist shear resistance at the location of the circular web hole is calculated using the following equation: V (round hole) = Published shear resistance $\times [(D-d)/D]$ where d = joist depth; D = hole diameter
- I-joist top and bottom flanges must NEVER be cut, notched or otherwise modified.
- Whenever possible field-cut holes be centred on the middle of the web.
- The maximum size hole that can be cut into an I-joist web shall equal the clear distance between the I-joist flanges minus 1/4 inch. A minimum 1/8 inch should be maintained between the top or bottom of the hole and the adjacent I-joist flange.
- The sides of square holes or longest sides of rectangular holes should not exceed three fourths of the diameter of the maximum round hole permitted at the location.
- Where more than one hole is necessary, the distance between adjacent hole edges shall exceed twice the diameter of the largest round hole or twice the size of the largest square hole (or twice the length of the longest side of the largest rectangular hole) and each hole must be sized and located in compliance with the requirements of this table. A knockout is not considered a hole and may be utilized anywhere it occurs and may be ignored for purposes of calculating minimum distances between holes.
- 1 1/2-inch holes shall be permitted anywhere in a cantilevered section of an IB I-joist. Holes of greater size may be permitted subject to verification.
- A 1 1/2-inch hole can be placed anywhere in the web provided that it meets the requirements of 9 above. Multiple 1 1/2-inch diameter web holes in a horizontal row shall be permitted if they meet the requirements of note 9 and cover a length of 24 inches or less. Multiple 1 1/2-inch diameter web holes covering a length greater than 24 inches may be permitted subject to verification.
- All holes shall be cut in a workman-like manner in accordance with the restrictions listed above. For rectangular holes, avoid over cutting the corners. Slightly rounding the corners is recommended. Starting the rectangular hole by drilling a 1" diameter hole in each of the 4 corners and then making the cuts between holes is a good method to minimize damage to the joist.
- Limit three maximum-size holes per span.
- A group of round holes at approximately the same location shall be permitted if they meet the requirements for a single round hole circumscribed around them.
- For I-joists with more than one span, use the longest span to determine hole locations in either span.
- Refer to IB EWP Inc. Design Software for other hole sizes and locations.



July 2, 2026

EXPIRES: 06/30/2028

Shunyu

Series	Loads	Depth (in)	Clear Span (ft)	Distance from End/Interior Support							
				Hole Diameter							
				2"	3"	4"	5"	6"	8"	10"	12"
IB900x	40 psf Live Load; 15 psf Dead Load; SINGLE & MULTIPLE SPANS	7.875	8	0'-7"	0'-8"	0'-8"					
			10	0'-7"	0'-8"	0'-8"					
			12	0'-7"	0'-8"	1'-8"					
			14	0'-7"	1'-3"	3'-0"					
			16	0'-11"	2'-7"	4'-5"					
			18	2'-2"	3'-11"	5'-10"					
			20	3'-6"	5'-4"	7'-3"					
		8.625	8	0'-7"	0'-8"	0'-8"	0'-9"				
			10	0'-7"	0'-8"	0'-8"	0'-11"				
			12	0'-7"	0'-8"	0'-8"	2'-3"				
			14	0'-7"	0'-8"	1'-10"	3'-7"				
			16	0'-7"	1'-6"	3'-2"	5'-0"				
			18	1'-2"	2'-10"	4'-7"	6'-5"				
			20	2'-5"	4'-2"	6'-0"	7'-11"				
		9.5	10	0'-7"	0'-8"	0'-8"	0'-9"	1'-3"			
			12	0'-7"	0'-8"	0'-8"	0'-11"	2'-7"			
			14	0'-7"	0'-8"	0'-8"	2'-3"	3'-11"			
			16	0'-7"	0'-8"	1'-11"	3'-7"	5'-4"			
			18	0'-7"	1'-7"	3'-2"	4'-11"	6'-10"			
			20	1'-3"	2'-10"	4'-7"	6'-4"	8'-3"			
		11.875	22	2'-6"	4'-2"	5'-11"	7'-9"	9'-9"			
			12	0'-7"	0'-8"	0'-8"	0'-9"	0'-9"	2'-3"		
			14	0'-7"	0'-8"	0'-8"	0'-9"	0'-9"	3'-7"		
			16	0'-7"	0'-8"	0'-8"	0'-9"	1'-8"	5'-0"		
			18	0'-7"	0'-8"	0'-8"	1'-5"	3'-0"	6'-5"		
			20	0'-7"	0'-8"	1'-1"	2'-8"	4'-4"	7'-10"		
		14	22	0'-7"	0'-10"	2'-5"	4'-0"	5'-8"	9'-4"		
			24	0'-7"	2'-1"	3'-9"	5'-4"	7'-1"	10'-10"		
			14	0'-7"	0'-8"	0'-8"	0'-9"	0'-9"	0'-10"	3'-11"	
			16	0'-7"	0'-8"	0'-8"	0'-9"	0'-9"	2'-2"	5'-4"	
			18	0'-7"	0'-8"	0'-8"	0'-9"	0'-9"	3'-6"	6'-9"	
			20	0'-7"	0'-8"	0'-8"	0'-9"	1'-9"	4'-10"	8'-2"	
		16	22	0'-7"	0'-8"	0'-8"	1'-7"	3'-1"	6'-3"	9'-8"	
			24	0'-7"	0'-8"	1'-5"	2'-11"	4'-5"	7'-7"	11'-2"	
			26	0'-7"	1'-3"	2'-9"	4'-3"	5'-9"	9'-1"	12'-8"	
			16	0'-7"	0'-8"	0'-8"	0'-9"	0'-9"	0'-10"	2'-7"	5'-8"
			18	0'-7"	0'-8"	0'-8"	0'-9"	0'-9"	1'-0"	3'-11"	7'-1"
			20	0'-7"	0'-8"	0'-8"	0'-9"	0'-9"	2'-4"	5'-3"	8'-7"
			22	0'-7"	0'-8"	0'-8"	0'-9"	0'-10"	3'-8"	6'-8"	10'-1"
			24	0'-7"	0'-8"	0'-8"	0'-9"	2'-1"	5'-0"	8'-1"	11'-7"
			26	0'-7"	0'-8"	0'-8"	2'-0"	3'-5"	6'-4"	9'-7"	
			28	0'-7"	0'-8"	1'-10"	3'-3"	4'-8"	7'-9"	11'-0"	

Notes:

- Table may be used for I-joist spacing 24 inches on centre or less. Design loads indicated in table heading are unfactored. Lower design dead loads may safely be used with this table. Spans must also be verified with IB U.S.-ASD span tables. For example, an IB900x spans 9 1/2" deep at 24" o.c. may only be capable of spanning 14'.
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- Limit three maximum-size holes per span.



July 2, 2026