

SAFEjoist

Fire Protection - IRC 2012, 2015, 2018, 2021, 2024

Installation Details and Design Properties



FOR USE WITH PRODUCTS MANUFACTURED BY:

PKjoists
by PinkWood LTD.

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CAN REG. No. 167981, Pat. U.S. D796,063S

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WSG-01 v.1



IAPMO UES ER-0431

Minimum WESHIELD Coverage Diagram

1. The Diagram listed below depicts minimum WEBSHIELD quantities for spans ≤ 3' thru 26'. Longer spans are allowed provided they maintain the same coverage pattern as indicated.

2. Joist Span refers to the exposed length of I-joist including bearing and NOT the distance between the inside face of bearings.
3. Figure 3 illustrates the various bearing conditions in relation to WEBSHIELD spacing.

4. Web stiffeners do not extend spacing allowances and are not intended to provide Fire Performance characteristics.

DIAGRAM 1 - Minimum Number of WESHIELD Panels by Span

Joist Span ≤	2' Gap		2' Shield		2' Gap		2' Shield		2' Gap		2' Shield		2' Gap		2' Shield		2' Gap		2' Shield		2' Gap		2' Shield		2' Gap		2' Shield		Panel Qty		Joist Span ≤
	1'	2'	3'	4'	5'	6'	7'	8'	9'	10'	11'	12'	13'	14'	15'	16'	17'	18'	19'	20'	21'	22'	23'	24'	25'	26'	24"	12"			
26'	1'	2'	3'	4'	5'	6'	7'	8'	9'	10'	11'	12'	13'	14'	15'	16'	17'	18'	19'	20'	21'	22'	23'	24'	25'	26'	12				26'
25'	1'	2'	3'	4'	5'	6'	7'	8'	9'	10'	11'	12'	13'	14'	15'	16'	17'	18'	19'	20'	21'	22'	23'	24'	25'		12				25'
24'	1'	2'	3'	4'	5'	6'	7'	8'	9'	10'	11'	12'	13'	14'	15'	16'	17'	18'	19'	20'	21'	22'	23'	24'			12				24'
23'	1'	2'	3'	4'	5'	6'	7'	8'	9'	10'	11'	12'	13'	14'	15'	16'	17'	18'	19'	20'	21'	22'	23'				10	2			23'
22'	1'	2'	3'	4'	5'	6'	7'	8'	9'	10'	11'	12'	13'	14'	15'	16'	17'	18'	19'	20'	21'	22'					10				22'
21'	1'	2'	3'	4'	5'	6'	7'	8'	9'	10'	11'	12'	13'	14'	15'	16'	17'	18'	19'	20'	21'						10				21'
20'	1'	2'	3'	4'	5'	6'	7'	8'	9'	10'	11'	12'	13'	14'	15'	16'	17'	18'	19'	20'							8	2			20'
19'	1'	2'	3'	4'	5'	6'	7'	8'	9'	10'	11'	12'	13'	14'	15'	16'	17'	18'	19'								8				19'
18'	1'	2'	3'	4'	5'	6'	7'	8'	9'	10'	11'	12'	13'	14'	15'	16'	17'	18'									8				18'
17'	1'	2'	3'	4'	5'	6'	7'	8'	9'	10'	11'	12'	13'	14'	15'	16'	17'										8				17'
16'	1'	2'	3'	4'	5'	6'	7'	8'	9'	10'	11'	12'	13'	14'	15'	16'											8				16'
15'	1'	2'	3'	4'	5'	6'	7'	8'	9'	10'	11'	12'	13'	14'	15'												6	2			15'
14'	1'	2'	3'	4'	5'	6'	7'	8'	9'	10'	11'	12'	13'	14'													6				14'
13'	1'	2'	3'	4'	5'	6'	7'	8'	9'	10'	11'	12'	13'														6				13'
12'	1'	2'	3'	4'	5'	6'	7'	8'	9'	10'	11'	12'															6				12'
11'	1'	2'	3'	4'	5'	6'	7'	8'	9'	10'	11'																4	2			11'
10'	1'	2'	3'	4'	5'	6'	7'	8'	9'	10'																	4				10'
9'	1'	2'	3'	4'	5'	6'	7'	8'	9'																		4				9'
8'	1'	2'	3'	4'	5'	6'	7'	8'																			4				8'
7'	1'	2'	3'	4'	5'	6'	7'																				2	2			7'
6'	1'	2'	3'	4'	5'	6'																					2				6'
5'	1'	2'	3'	4'	5'																						2				5'
4'	1'	2'	3'	4'																							2				4'
3'	1'	2'	3'																								2				3'

WEBSHIELD Distance at bearing

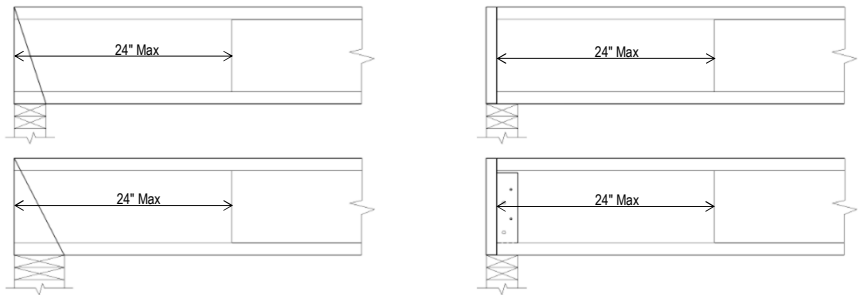


Figure 3

- NOTES**
- a. Distances from end of I-joist to the edge of the first WESHIELD panel may be less than 24".
 - b. Maximum distance may not exceed 24-1/2".
 - c. When WESHIELD panels are placed as indicated above, the joist may be trimmed on either end without concern for panel location.

Conditions Utilizing Standard WEBSHIELD'S - 24"

4. The WEBSHIELD placement diagram below allows for 24" of trimmeable length on one or both ends of the joist.
5. The WEBSHIELD coverage below covers a range of joists within a 4' length interval.
6. This uniform placement allows for 15 shield locations to cover 60' joist lengths.

DIAGRAM 2 - Uniform WEBSHIELD Placement by Joist Length - Trimmable Ends

[illegible]

SAFEjoist Span Conditions

1. The SAFEjoist as shown above, is designed to handle any bearing conditions once shielded.
2. With the Trimmable sections as indicated, 2 point bearing, 3 point bearing or multiple bearing points can be accommodated without adjustment to the WEBSHIELD layout.
3. In condition where intermediate bearing may create undesired uplift, modification to the I-joist top flange and web does not adversely affect the WEBSHIELD performance. In the event that a WEBSHIELD panel is cut, but not removed, add additional staples on either side of the cut and on adjacent WEBSHIELD'S to ensure product stability.

