



BlueLinx Engineered Products

AFL Product Guide Addendum - Supplemental Rafter Span Tables

This is a supplement to the onCENTER AFL Product Guide (item OCAFLPG) dated March 2013 to include roof span tables for 35 psf, 40 psf, and 42 psf live loads.

RAFTER SPAN NOTES

NOTES:

1. Design methodology used to develop tabulated spans is similar to that used for dimension lumber in Table R802.5 of the 2009 International Residential Code, including dead loads being applied to the horizontal projection of the span. However, to assure deflection criteria are met regardless of slope, deflection is checked on the up-the-slope spans.
2. Spans are clear distances between supports, measured along the horizontal projection of the rafter.
3. Depending on span, slope, and depth, required rafter lengths might exceed 32', the maximum available length of AFL. Please refer to page 7 of the AFL Floor and Roof Systems Product Guide (Lit. Item # OCAFLPG) to determine up-the-slope rafter lengths, including allowance for bearing and plumb cuts, prior to ordering materials.
4. Unless noted otherwise, the ends of each rafter shall have not less than 1¼" of bearing. Assumes SPF bearing plate ($F_{c\perp} = 425$ psi).
5. The top edge of the rafter shall be held in line for its entire length to prevent lateral displacement, as by adequate sheathing.
6. For 11½", 14", and 16" rafters, provide lateral support at points of bearing to prevent rotation. When rafters are attached to ceiling joists at points of bearing, the lateral support is not required.
7. 14" and 16" rafters shall be supported laterally at intervals not exceeding 8 feet by solid blocking, diagonal bridging, or a continuous 1x3 nailed across the rafters.
8. Rafters may be used with ridge beams or with ridge boards.
9. If used with ridge boards, the tabulated rafter spans assume that ceiling joists are located at the bottom of the attic space or that some other method of resisting the outward push of the rafters on the bearing walls, such as rafter ties, is provided at that location.
10. Longer spans may be possible for a specific slope. Shorter bearing lengths may be possible depending on slope, span, and bearing plate material. To check these, or to determine spans for other load conditions or deflection criteria, use DOMA Sizer™ software.



Roof - 35 PSF Live Load (L/240) + 10 PSF Dead Load

115% - SNOW		Slope ≤ 4/12				4/12 < Slope ≤ 8/12				8/12 < Slope ≤ 12/12			
Depth	AFL Grade	12" o.c.	16" o.c.	19.2" o.c.	24" o.c.	12" o.c.	16" o.c.	19.2" o.c.	24" o.c.	12" o.c.	16" o.c.	19.2" o.c.	24" o.c.
7¼"	1.6E	16'-02"	14'-08"	13'-10"	12'-09"	15'-06"	14'-01"	13'-03"	12'-03"	14'-08"	13'-04"	12'-06"	11'-08"
	1.7E	16'-07"	15'-01"	14'-02"	13'-02"	15'-11"	14'-05"	13'-07"	12'-07"	15'-01"	13'-08"	12'-11"	11'-11"
	1.9E	17'-03"	15'-08"	14'-09"	13'-08"	16'-06"	15'-00"	14'-02"	13'-01"	15'-08"	14'-03"	13'-05"	12'-05"
	2.1E	17'-08"	16'-01"	15'-01"	14'-00"	16'-11"	15'-05"	14'-06"	13'-05"	16'-00"	14'-07"	13'-08"	12'-09"
9½"	1.6E	21'-02"	19'-03"	17'-10"	15'-11"	20'-03"	18'-05"	17'-04"	15'-11"	19'-02"	17'-05"	16'-05"	15'-03"
	1.7E	21'-09"	19'-09"	18'-07"	17'-03"	20'-10"	18'-11"	17'-10"	16'-06"	19'-09"	17'-11"	16'-10"	15'-08"
	1.9E	22'-08"	20'-07"	19'-04"	18'-00"	21'-08"	19'-08"	18'-06"	17'-02"	20'-06"	18'-08"	17'-06"	16'-03"
	2.1E	23'-02"	21'-01"	19'-10"	18'-05"	22'-02"	20'-02"	19'-00"	17'-07"	21'-00"	19'-01"	17'-11"	16'-08"
11⅝"	1.6E	26'-06"	23'-06"	21'-06"	19'-02"	25'-04"	23'-00"	21'-06"	19'-02"	24'-00"	21'-10"	20'-06"	19'-01"
	1.7E	27'-03"	24'-09"	23'-03"	21'-07"	26'-01"	23'-08"	22'-03"	20'-08"	24'-08"	22'-05"	21'-01"	19'-07"
	1.9E	28'-03"	25'-08"	24'-02"	22'-05"	27'-01"	24'-07"	23'-02"	21'-06"	25'-08"	23'-04"	21'-11"	20'-04"
	2.1E	28'-11"	26'-04"	24'-09"	23'-00"	27'-09"	25'-02"	23'-08"	22'-00"	26'-03"	23'-10"	22'-05"	20'-10"
14"	1.6E	31'-02"	26'-11"	24'-07"	22'-00"	29'-10"	26'-11"	24'-07"	22'-00"	26'-04"	25'-08"	24'-02"	22'-00"
	1.7E	31'-08"	29'-02"	27'-05"	25'-06"	30'-00"	27'-11"	26'-03"	24'-04"	26'-04"	26'-04"	24'-10"	23'-01"
	1.9E	31'-08"	30'-04"	28'-06"	26'-06"	30'-00"	29'-00"	27'-03"	25'-04"	26'-04"	26'-04"	25'-10"	24'-00"
	2.1E	31'-08"	31'-00"	29'-02"	27'-01"	30'-00"	29'-08"	27'-11"	25'-11"	26'-04"	26'-04"	26'-04"	24'-07"
16"	1.6E	31'-08"	30'-01"	27'-06"	24'-07"	30'-00"	30'-00"	27'-06"	24'-07"	26'-04"	26'-04"	26'-04"	24'-07"
	1.7E	31'-08"	31'-08"	31'-04"	29'-01"	30'-00"	30'-00"	30'-00"	27'-10"	26'-04"	26'-04"	26'-04"	26'-04"
	1.9E	31'-08"	31'-08"	31'-08"	30'-03"	30'-00"	30'-00"	30'-00"	28'-11"	26'-04"	26'-04"	26'-04"	26'-04"
	2.1E	31'-08"	31'-08"	31'-08"	31'-00"	30'-00"	30'-00"	30'-00"	29'-08"	26'-04"	26'-04"	26'-04"	26'-04"

1. Minimum bearing is 1¾" (1⅞" for spans in **bold italics**).
2. See notes on page 1.

Roof - 35 PSF Live Load (L/240) + 20 PSF Dead Load

115% - SNOW		Slope ≤ 4/12				4/12 < Slope ≤ 8/12				8/12 < Slope ≤ 12/12			
Depth	AFL Grade	12" o.c.	16" o.c.	19.2" o.c.	24" o.c.	12" o.c.	16" o.c.	19.2" o.c.	24" o.c.	12" o.c.	16" o.c.	19.2" o.c.	24" o.c.
7¼"	1.6E	16'-02"	14'-01"	12'-11"	11'-06"	15'-06"	14'-01"	12'-11"	11'-06"	14'-08"	13'-04"	12'-06"	11'-06"
	1.7E	16'-07"	15'-01"	14'-02"	13'-02"	15'-11"	14'-05"	13'-07"	12'-07"	15'-01"	13'-08"	12'-11"	11'-11"
	1.9E	17'-03"	15'-08"	14'-09"	13'-08"	16'-06"	15'-00"	14'-02"	13'-01"	15'-08"	14'-03"	13'-05"	12'-05"
	2.1E	17'-08"	16'-01"	15'-01"	14'-00"	16'-11"	15'-05"	14'-06"	13'-05"	16'-00"	14'-07"	13'-08"	12'-09"
9½"	1.6E	20'-05"	17'-08"	16'-02"	14'-05"	20'-03"	17'-08"	16'-02"	14'-05"	19'-02"	17'-05"	16'-02"	14'-05"
	1.7E	21'-09"	19'-09"	18'-07"	17'-03"	20'-10"	18'-11"	17'-10"	16'-06"	19'-09"	17'-11"	16'-10"	15'-08"
	1.9E	22'-08"	20'-07"	19'-04"	18'-00"	21'-08"	19'-08"	18'-06"	17'-02"	20'-06"	18'-08"	17'-06"	16'-03"
	2.1E	23'-02"	21'-01"	19'-10"	18'-05"	22'-02"	20'-02"	19'-00"	17'-07"	21'-00"	19'-01"	17'-11"	16'-08"
11⅝"	1.6E	24'-07"	21'-03"	19'-05"	17'-04"	24'-07"	21'-03"	19'-05"	17'-04"	24'-00"	21'-03"	19'-05"	17'-04"
	1.7E	27'-03"	24'-09"	23'-03"	21'-03"	26'-01"	23'-08"	22'-03"	20'-08"	24'-08"	22'-05"	21'-01"	19'-07"
	1.9E	28'-03"	25'-08"	24'-02"	22'-05"	27'-01"	24'-07"	23'-02"	21'-06"	25'-08"	23'-04"	21'-11"	20'-04"
	2.1E	28'-11"	26'-04"	24'-09"	23'-00"	27'-09"	25'-02"	23'-08"	22'-00"	26'-03"	23'-10"	22'-05"	20'-10"
14"	1.6E	28'-02"	24'-05"	22'-03"	19'-11"	28'-02"	24'-05"	22'-03"	19'-11"	26'-04"	24'-05"	22'-03"	19'-11"
	1.7E	31'-08"	29'-02"	27'-05"	24'-07"	30'-00"	27'-11"	26'-03"	24'-04"	26'-04"	26'-04"	24'-10"	23'-01"
	1.9E	31'-08"	30'-04"	28'-06"	26'-06"	30'-00"	29'-00"	27'-03"	25'-04"	26'-04"	26'-04"	25'-10"	24'-00"
	2.1E	31'-08"	31'-00"	29'-02"	27'-01"	30'-00"	29'-08"	27'-11"	25'-11"	26'-04"	26'-04"	26'-04"	24'-07"
16"	1.6E	31'-05"	27'-03"	24'-10"	22'-03"	30'-00"	27'-03"	24'-10"	22'-03"	26'-04"	26'-04"	24'-10"	22'-03"
	1.7E	31'-08"	31'-08"	30'-10"	27'-07"	30'-00"	30'-00"	30'-00"	27'-07"	26'-04"	26'-04"	26'-04"	26'-03"
	1.9E	31'-08"	31'-08"	31'-07"	30'-03"	30'-00"	30'-00"	30'-00"	28'-11"	26'-04"	26'-04"	26'-04"	26'-03"
	2.1E	31'-08"	31'-08"	31'-07"	31'-00"	30'-00"	30'-00"	30'-00"	29'-08"	26'-04"	26'-04"	26'-04"	26'-03"

1. Minimum bearing is 1¾" (2¼" for spans in **bold italics**).
2. See notes on page 1.

Roof - 40 PSF Live Load (L/240) + 10 PSF Dead Load

115% - SNOW		Slope ≤ 4/12				4/12 < Slope ≤ 8/12				8/12 < Slope ≤ 12/12			
Depth	AFL Grade	12" o.c.	16" o.c.	19.2" o.c.	24" o.c.	12" o.c.	16" o.c.	19.2" o.c.	24" o.c.	12" o.c.	16" o.c.	19.2" o.c.	24" o.c.
7¼"	1.6E	15'-05"	14'-00"	13'-03"	12'-01"	14'-10"	13'-05"	12'-08"	11'-09"	14'-00"	12'-09"	12'-00"	11'-01"
	1.7E	15'-11"	14'-05"	13'-07"	12'-07"	15'-03"	13'-10"	13'-00"	12'-01"	14'-05"	13'-01"	12'-04"	11'-05"
	1.9E	16'-06"	15'-00"	14'-01"	13'-01"	15'-10"	14'-04"	13'-06"	12'-07"	15'-00"	13'-07"	12'-10"	11'-11"
	2.1E	16'-11"	15'-04"	14'-05"	13'-05"	16'-02"	14'-08"	13'-10"	12'-10"	15'-04"	13'-11"	13'-01"	12'-02"
9½"	1.6E	20'-03"	18'-05"	16'-11"	15'-02"	19'-05"	17'-07"	16'-07"	15'-02"	18'-04"	16'-08"	15'-08"	14'-07"
	1.7E	20'-10"	18'-11"	17'-10"	16'-06"	19'-11"	18'-01"	17'-00"	15'-10"	18'-11"	17'-02"	16'-02"	15'-00"
	1.9E	21'-08"	19'-08"	18'-06"	17'-02"	20'-09"	18'-10"	17'-09"	16'-05"	19'-07"	17'-10"	16'-09"	15'-07"
	2.1E	22'-02"	20'-02"	18'-11"	17'-07"	21'-03"	19'-03"	18'-02"	16'-10"	20'-01"	18'-03"	17'-02"	15'-11"
11⅝"	1.6E	25'-04"	22'-04"	20'-04"	18'-03"	24'-03"	22'-00"	20'-04"	18'-03"	22'-11"	20'-10"	19'-07"	18'-03"
	1.7E	26'-00"	23'-08"	22'-03"	20'-08"	24'-11"	22'-08"	21'-04"	19'-09"	23'-07"	21'-05"	20'-02"	18'-09"
	1.9E	27'-01"	24'-07"	23'-02"	21'-06"	25'-11"	23'-06"	22'-02"	20'-07"	24'-06"	22'-03"	21'-00"	19'-06"
	2.1E	27'-08"	25'-02"	23'-08"	22'-00"	26'-06"	24'-01"	22'-08"	21'-01"	25'-01"	22'-10"	21'-06"	19'-11"
14"	1.6E	29'-06"	25'-07"	23'-04"	20'-11"	28'-07"	25'-07"	23'-04"	20'-11"	26'-04"	24'-07"	23'-02"	20'-11"
	1.7E	30'-08"	27'-11"	26'-03"	24'-04"	29'-04"	26'-08"	25'-01"	23'-04"	26'-04"	25'-03"	23'-09"	22'-01"
	1.9E	31'-08"	29'-00"	27'-03"	25'-04"	30'-00"	27'-09"	26'-01"	24'-03"	26'-04"	26'-03"	24'-09"	22'-11"
	2.1E	31'-08"	29'-08"	27'-11"	25'-11"	30'-00"	28'-05"	26'-09"	24'-10"	26'-04"	26'-04"	25'-04"	23'-06"
16"	1.6E	31'-08"	28'-07"	26'-01"	23'-04"	30'-00"	28'-07"	26'-01"	23'-04"	26'-04"	26'-04"	26'-01"	23'-04"
	1.7E	31'-08"	31'-08"	30'-00"	27'-10"	30'-00"	30'-00"	28'-08"	26'-08"	26'-04"	26'-04"	26'-04"	25'-03"
	1.9E	31'-08"	31'-08"	31'-02"	28'-11"	30'-00"	30'-00"	29'-10"	27'-08"	26'-04"	26'-04"	26'-04"	26'-03"
	2.1E	31'-08"	31'-08"	31'-08"	29'-07"	30'-00"	30'-00"	30'-00"	28'-04"	26'-04"	26'-04"	26'-04"	26'-04"

1. Minimum bearing is 1¼" (2" for spans in **bold italics**).
2. See notes on page 1

Roof - 40 PSF Live Load (L/240) + 20 PSF Dead Load

115% - SNOW		Slope ≤ 4/12				4/12 < Slope ≤ 8/12				8/12 < Slope ≤ 12/12			
Depth	AFL Grade	12" o.c.	16" o.c.	19.2" o.c.	24" o.c.	12" o.c.	16" o.c.	19.2" o.c.	24" o.c.	12" o.c.	16" o.c.	19.2" o.c.	24" o.c.
7¼"	1.6E	15'-05"	13'-06"	12'-04"	10'-08"	14'-10"	13'-05"	12'-04"	11'-00"	14'-00"	12'-09"	12'-00"	11'-00"
	1.7E	15'-11"	14'-05"	13'-07"	12'-07"	15'-03"	13'-10"	13'-00"	12'-01"	14'-05"	13'-01"	12'-04"	11'-05"
	1.9E	16'-06"	15'-00"	14'-01"	13'-01"	15'-10"	14'-04"	13'-06"	12'-07"	15'-00"	13'-07"	12'-10"	11'-11"
	2.1E	16'-11"	15'-04"	14'-05"	13'-05"	16'-02"	14'-08"	13'-10"	12'-10"	15'-04"	13'-11"	13'-01"	12'-02"
9½"	1.6E	19'-06"	16'-11"	15'-05"	13'-10"	19'-05"	16'-11"	15'-05"	13'-10"	18'-04"	16'-08"	15'-05"	13'-10"
	1.7E	20'-10"	18'-11"	17'-10"	16'-06"	19'-11"	18'-01"	17'-00"	15'-10"	18'-11"	17'-02"	16'-02"	15'-00"
	1.9E	21'-08"	19'-08"	18'-06"	17'-02"	20'-09"	18'-10"	17'-09"	16'-05"	19'-07"	17'-10"	16'-09"	15'-07"
	2.1E	22'-02"	20'-02"	18'-11"	17'-07"	21'-03"	19'-03"	18'-02"	16'-10"	20'-01"	18'-03"	17'-02"	15'-11"
11⅝"	1.6E	23'-06"	20'-04"	18'-07"	16'-08"	23'-06"	20'-04"	18'-07"	16'-08"	22'-11"	20'-04"	18'-07"	16'-08"
	1.7E	26'-00"	23'-08"	22'-03"	20'-04"	24'-11"	22'-08"	21'-04"	19'-09"	23'-07"	21'-05"	20'-02"	18'-09"
	1.9E	27'-01"	24'-07"	23'-02"	21'-06"	25'-11"	23'-06"	22'-02"	20'-07"	24'-06"	22'-03"	21'-00"	19'-06"
	2.1E	27'-08"	25'-02"	23'-08"	22'-00"	26'-06"	24'-01"	22'-08"	21'-01"	25'-01"	22'-10"	21'-06"	19'-11"
14"	1.6E	26'-11"	23'-04"	21'-04"	19'-01"	26'-11"	23'-04"	21'-04"	19'-01"	26'-04"	23'-04"	21'-04"	19'-01"
	1.7E	30'-08"	27'-11"	26'-03"	23'-06"	29'-04"	26'-08"	25'-01"	23'-04"	26'-04"	25'-03"	23'-09"	22'-01"
	1.9E	31'-08"	29'-00"	27'-03"	25'-04"	30'-00"	27'-09"	26'-01"	24'-03"	26'-04"	26'-03"	24'-09"	22'-11"
	2.1E	31'-08"	29'-08"	27'-11"	25'-11"	30'-00"	28'-05"	26'-09"	24'-10"	26'-04"	26'-04"	25'-04"	23'-06"
16"	1.6E	30'-01"	26'-01"	23'-10"	21'-04"	30'-00"	26'-01"	23'-10"	21'-04"	26'-04"	26'-01"	23'-10"	21'-04"
	1.7E	31'-08"	31'-08"	29'-06"	26'-05"	30'-00"	30'-00"	28'-08"	26'-05"	26'-04"	26'-04"	26'-04"	25'-03"
	1.9E	31'-08"	31'-08"	31'-02"	28'-11"	30'-00"	30'-00"	29'-10"	27'-08"	26'-04"	26'-04"	26'-04"	26'-02"
	2.1E	31'-08"	31'-08"	31'-07"	29'-07"	30'-00"	30'-00"	29'-11"	28'-04"	26'-04"	26'-04"	26'-04"	26'-02"

1. Minimum bearing is 1¼" (2¾" for spans in **bold italics**).
2. See notes on page 1.

Roof - 42 PSF Live Load (L/240) + 10 PSF Dead Load

115% - SNOW		Slope ≤ 4/12				4/12 < Slope ≤ 8/12				8/12 < Slope ≤ 12/12			
Depth	AFL Grade	12" o.c.	16" o.c.	19.2" o.c.	24" o.c.	12" o.c.	16" o.c.	19.2" o.c.	24" o.c.	12" o.c.	16" o.c.	19.2" o.c.	24" o.c.
7¼"	1.6E	15'-02"	13'-10"	13'-00"	11'-10"	14'-07"	13'-03"	12'-05"	11'-07"	13'-09"	12'-06"	11'-09"	10'-11"
	1.7E	15'-08"	14'-02"	13'-04"	12'-05"	15'-00"	13'-07"	12'-10"	11'-11"	14'-02"	12'-11"	12'-01"	11'-03"
	1.9E	16'-03"	14'-09"	13'-11"	12'-11"	15'-07"	14'-02"	13'-04"	12'-04"	14'-09"	13'-05"	12'-07"	11'-08"
	2.1E	16'-08"	15'-01"	14'-03"	13'-02"	15'-11"	14'-06"	13'-07"	12'-08"	15'-01"	13'-08"	12'-11"	12'-00"
9½"	1.6E	19'-11"	18'-01"	16'-07"	14'-10"	19'-01"	17'-04"	16'-04"	14'-10"	18'-01"	16'-05"	15'-05"	14'-04"
	1.7E	20'-06"	18'-07"	17'-06"	16'-03"	19'-07"	17'-10"	16'-09"	15'-07"	18'-07"	16'-10"	15'-11"	14'-09"
	1.9E	21'-04"	19'-04"	18'-02"	16'-11"	20'-05"	18'-06"	17'-05"	16'-02"	19'-04"	17'-06"	16'-06"	15'-04"
	2.1E	21'-10"	19'-10"	18'-08"	17'-04"	20'-10"	19'-00"	17'-10"	16'-07"	19'-09"	17'-11"	16'-11"	15'-08"
11⅝"	1.6E	24'-11"	21'-10"	20'-00"	17'-10"	23'-10"	21'-08"	20'-00"	17'-10"	22'-07"	20'-06"	19'-04"	17'-10"
	1.7E	25'-07"	23'-03"	21'-11"	20'-04"	24'-06"	22'-03"	20'-11"	19'-05"	23'-03"	21'-01"	19'-10"	18'-05"
	1.9E	26'-07"	24'-02"	22'-09"	21'-01"	25'-06"	23'-02"	21'-09"	20'-03"	24'-02"	21'-11"	20'-08"	19'-02"
	2.1E	27'-03"	24'-09"	23'-04"	21'-08"	26'-01"	23'-08"	22'-04"	20'-08"	24'-08"	22'-05"	21'-01"	19'-07"
14"	1.6E	28'-11"	25'-01"	22'-11"	20'-06"	28'-01"	25'-01"	22'-11"	20'-06"	26'-04"	24'-02"	22'-09"	20'-06"
	1.7E	30'-02"	27'-05"	25'-10"	24'-00"	28'-11"	26'-03"	24'-08"	22'-11"	26'-04"	24'-10"	23'-05"	21'-09"
	1.9E	31'-05"	28'-06"	26'-10"	24'-11"	30'-00"	27'-03"	25'-08"	23'-10"	26'-04"	25'-10"	24'-04"	22'-07"
	2.1E	31'-08"	29'-02"	27'-06"	25'-06"	30'-00"	27'-11"	26'-04"	24'-05"	26'-04"	26'-04"	24'-11"	23'-01"
16"	1.6E	31'-08"	28'-00"	25'-07"	22'-10"	30'-00"	28'-00"	25'-07"	22'-10"	26'-04"	26'-04"	25'-07"	22'-10"
	1.7E	31'-08"	31'-04"	29'-06"	27'-05"	30'-00"	30'-00"	28'-03"	26'-03"	26'-04"	26'-04"	26'-04"	24'-10"
	1.9E	31'-08"	31'-08"	30'-08"	28'-06"	30'-00"	30'-00"	29'-04"	27'-03"	26'-04"	26'-04"	26'-04"	25'-10"
	2.1E	31'-08"	31'-08"	31'-05"	29'-02"	30'-00"	30'-00"	30'-00"	27'-11"	26'-04"	26'-04"	26'-04"	26'-04"

1. Minimum bearing is 1¾" (2" for spans in **bold italics**).
2. See notes on page 1.

Roof - 42 PSF Live Load (L/240) + 20 PSF Dead Load

115% - SNOW		Slope ≤ 4/12				4/12 < Slope ≤ 8/12				8/12 < Slope ≤ 12/12			
Depth	AFL Grade	12" o.c.	16" o.c.	19.2" o.c.	24" o.c.	12" o.c.	16" o.c.	19.2" o.c.	24" o.c.	12" o.c.	16" o.c.	19.2" o.c.	24" o.c.
7¼"	1.6E	15'-02"	13'-04"	12'-02"	10'-04"	14'-07"	13'-03"	12'-02"	10'-10"	13'-09"	12'-06"	11'-09"	10'-10"
	1.7E	15'-08"	14'-02"	13'-04"	12'-05"	15'-00"	13'-07"	12'-10"	11'-11"	14'-02"	12'-11"	12'-01"	11'-03"
	1.9E	16'-03"	14'-09"	13'-11"	12'-11"	15'-07"	14'-02"	13'-04"	12'-04"	14'-09"	13'-05"	12'-07"	11'-08"
	2.1E	16'-08"	15'-01"	14'-03"	13'-02"	15'-11"	14'-06"	13'-07"	12'-08"	15'-01"	13'-08"	12'-11"	12'-00"
9½"	1.6E	19'-03"	16'-08"	15'-02"	13'-06"	19'-01"	16'-08"	15'-02"	13'-07"	18'-01"	16'-05"	15'-02"	13'-07"
	1.7E	20'-06"	18'-07"	17'-06"	16'-03"	19'-07"	17'-10"	16'-09"	15'-07"	18'-07"	16'-10"	15'-11"	14'-09"
	1.9E	21'-04"	19'-04"	18'-02"	16'-11"	20'-05"	18'-06"	17'-05"	16'-02"	19'-04"	17'-06"	16'-06"	15'-04"
	2.1E	21'-10"	19'-10"	18'-08"	17'-04"	20'-10"	19'-00"	17'-10"	16'-07"	19'-09"	17'-11"	16'-11"	15'-08"
11⅝"	1.6E	23'-02"	20'-00"	18'-03"	16'-04"	23'-02"	20'-00"	18'-03"	16'-04"	22'-07"	20'-00"	18'-03"	16'-04"
	1.7E	25'-07"	23'-03"	21'-11"	20'-00"	24'-06"	22'-03"	20'-11"	19'-05"	23'-03"	21'-01"	19'-10"	18'-05"
	1.9E	26'-07"	24'-02"	22'-09"	21'-01"	25'-06"	23'-02"	21'-09"	20'-03"	24'-02"	21'-11"	20'-08"	19'-02"
	2.1E	27'-03"	24'-09"	23'-04"	21'-08"	26'-01"	23'-08"	22'-04"	20'-08"	24'-08"	22'-05"	21'-01"	19'-07"
14"	1.6E	26'-06"	23'-00"	21'-00"	18'-09"	26'-06"	23'-00"	21'-00"	18'-09"	26'-04"	23'-00"	21'-00"	18'-09"
	1.7E	30'-02"	27'-05"	25'-10"	23'-02"	28'-11"	26'-03"	24'-08"	22'-11"	26'-04"	24'-10"	23'-05"	21'-09"
	1.9E	31'-05"	28'-06"	26'-10"	24'-11"	30'-00"	27'-03"	25'-08"	23'-10"	26'-04"	25'-10"	24'-04"	22'-07"
	2.1E	31'-08"	29'-02"	27'-06"	25'-06"	30'-00"	27'-11"	26'-04"	24'-05"	26'-04"	26'-04"	24'-11"	23'-01"
16"	1.6E	29'-08"	25'-08"	23'-05"	20'-11"	29'-08"	25'-08"	23'-05"	20'-11"	26'-04"	25'-08"	23'-05"	20'-11"
	1.7E	31'-08"	31'-04"	29'-01"	26'-00"	30'-00"	30'-00"	28'-03"	26'-00"	26'-04"	26'-04"	26'-04"	24'-10"
	1.9E	31'-08"	31'-08"	30'-08"	28'-06"	30'-00"	30'-00"	29'-04"	27'-03"	26'-04"	26'-04"	26'-04"	25'-10"
	2.1E	31'-08"	31'-08"	31'-05"	29'-02"	30'-00"	30'-00"	29'-11"	27'-11"	26'-04"	26'-04"	26'-04"	26'-02"

1. Minimum bearing is 1¾" (2¾" for spans in **bold italics**).
2. See notes on page 1.