

Headers Supporting Roof - Sizing Table

Design Criteria

Span: Simple

Load: Dead load = 15 psf

Deflection limits: L/480 under snow load and L/360 under total load

Lateral supports: At points of bearing and at every 2 feet along the top edge

Soffit: Roof truss soffit up to 24 inches

Building: NBC 2015 Part 9

Serviceability and Ultimate Limit States

24F-1.9E Headers

Roof span (ft)	Snow load = 30 psf				Snow load = 40 psf			
		Header cle	ar span (ft)		Header clear span (ft)			
	0 to 5	6	8	10	0 to 5	6	8	10
32	3-1/2" x 9-1/2"	3-1/2" x 9-1/2"	3-1/2" x 9-1/2"	3-1/2" x 11-7/8"	3-1/2" x 9-1/2"	3-1/2" x 9-1/2"	3-1/2" x 9-1/2"	3-1/2" x 11-7/8"
	5-1/2" x 9-1/2"	5-1/2" x 9-1/2"	5-1/2" x 9-1/2"	5-1/2" x 9-1/2"	5-1/2" x 9-1/2"	5-1/2" x 9-1/2"	5-1/2" x 9-1/2"	5-1/2" x 9-1/2"
34	3-1/2" x 9-1/2"	3-1/2" x 9-1/2"	3-1/2" x 9-1/2"	3-1/2" x 11-7/8"	3-1/2" x 9-1/2"	3-1/2" x 9-1/2"	3-1/2" x 9-1/2"	3-1/2" x 11-7/8"
	5-1/2" x 9-1/2"	5-1/2" x 9-1/2"	5-1/2" x 9-1/2"	5-1/2" x 9-1/2"	5-1/2" x 9-1/2"	5-1/2" x 9-1/2"	5-1/2" x 9-1/2"	5-1/2" x 9-1/2"
36	3-1/2" x 9-1/2"	3-1/2" x 9-1/2"	3-1/2" x 9-1/2"	3-1/2" x 11-7/8"	3-1/2" x 9-1/2"	3-1/2" x 9-1/2"	3-1/2" x 9-1/2"	3-1/2" x 11-7/8"
	5-1/2" x 9-1/2"	5-1/2" x 9-1/2"	5-1/2" x 9-1/2"	5-1/2" x 9-1/2"	5-1/2" x 9-1/2"	5-1/2" x 9-1/2"	5-1/2" x 9-1/2"	5-1/2" x 9-1/2"
38	3-1/2" x 9-1/2"	3-1/2" x 9-1/2"	3-1/2" x 9-1/2"	3-1/2" x 11-7/8"	3-1/2" x 9-1/2"	3-1/2" x 9-1/2"	3-1/2" x 9-1/2"	3-1/2" x 11-7/8"
	5-1/2" x 9-1/2"	5-1/2" x 9-1/2"	5-1/2" x 9-1/2"	5-1/2" x 11-7/8"	5-1/2" x 9-1/2"	5-1/2" x 9-1/2"	5-1/2" x 9-1/2"	5-1/2" x 11-7/8"
40	3-1/2" x 9-1/2"	3-1/2" x 9-1/2"	3-1/2" x 9-1/2"	3-1/2" x 11-7/8"	3-1/2" x 9-1/2"	3-1/2" x 9-1/2"	3-1/2" x 9-1/2"	3-1/2" x 11-7/8"
	5-1/2" x 9-1/2"	5-1/2" x 9-1/2"	5-1/2" x 9-1/2"	5-1/2" x 11-7/8"	5-1/2" x 9-1/2"	5-1/2" x 9-1/2"	5-1/2" x 9-1/2"	5-1/2" x 11-7/8"

	Snow load = 50 psf Header clear span (ft)				Snow load = 75 psf Header clear span (ft)			
Roof span (ft)								
(11)	0 to 5	6	8	10	0 to 5	6	8	10
32	3-1/2" x 9-1/2"	3-1/2" x 9-1/2"	3-1/2" x 11-7/8"	3-1/2" x 11-7/8"	3-1/2" x 9-1/2"	3-1/2" x 9-1/2"	3-1/2" x 11-7/8"	3-1/2" x 14"
32	5-1/2" x 9-1/2"	5-1/2" x 9-1/2"	5-1/2" x 9-1/2"	5-1/2" x 11-7/8"	5-1/2" x 9-1/2"	5-1/2" x 9-1/2"	5-1/2" x 11-7/8"	5-1/2" x 11-7/8"
34	3-1/2" x 9-1/2"	3-1/2" x 9-1/2"	3-1/2" x 11-7/8"	3-1/2" x 14"	3-1/2" x 9-1/2"	3-1/2" x 9-1/2"	3-1/2" x 11-7/8"	3-1/2" x 14"
34	5-1/2" x 9-1/2"	5-1/2" x 9-1/2"	5-1/2" x 9-1/2"	5-1/2" x 11-7/8"	5-1/2" x 9-1/2"	5-1/2" x 9-1/2"	5-1/2" x 11-7/8"	5-1/2" x 14"
36	3-1/2" x 9-1/2"	3-1/2" x 9-1/2"	3-1/2" x 11-7/8"	3-1/2" x 14"	3-1/2" x 9-1/2"	3-1/2" x 9-1/2"	3-1/2" x 11-7/8"	-
30	5-1/2" x 9-1/2"	5-1/2" x 9-1/2"	5-1/2" x 9-1/2"	5-1/2" x 11-7/8"	5-1/2" x 9-1/2"	5-1/2" x 9-1/2"	5-1/2" x 11-7/8"	5-1/2" x 14"
38	3-1/2" x 9-1/2"	3-1/2" x 9-1/2"	3-1/2" x 11-7/8"	3-1/2" x 14"	3-1/2" x 9-1/2"	3-1/2" x 9-1/2"	3-1/2" x 11-7/8"	-
30	5-1/2" x 9-1/2"	5-1/2" x 9-1/2"	5-1/2" x 9-1/2"	5-1/2" x 11-7/8"	5-1/4" x 9-1/2"	5-1/4" x 9-1/2"	5-1/4" x 11-7/8"	5-1/4" x 14"
40	3-1/2" x 9-1/2"	3-1/2" x 9-1/2"	3-1/2" x 11-7/8"	3-1/2" x 14"	3-1/2" x 9-1/2"	3-1/2" x 9-1/2"	3-1/2" x 11-7/8"	-
40	5-1/2" x 9-1/2"	5-1/2" x 9-1/2"	5-1/2" x 9-1/2"	5-1/2" x 11-7/8"	5-1/2" x 9-1/2"	5-1/2" x 9-1/2"	5-1/2" x 11-7/8"	5-1/2" x 14"

Notes

- 1. This table is applicable to lintels meeting the above design criteria and is based on dry service conditions, standard-term duration of load, and uniformly distributed loads.
- 2. Minimum bearing length shall be 3 inches, except for shaded areas, which shall be 4-1/2 inches.
- 3. Lintels may consist of multiple plies, provided that the individual plies are fastened securely. For 2-ply and 3-ply 1-3/4-inch lintels, use the lintel sizes for 3-1/2-inch and 5-1/2-inch widths, respectively.