

4:12	12	3	4	5	6								
	16	3	5	7	8								
	24	4	7	10	12								
	32	6	9	13	16								
	48	8	14	19	24								
5:12	12	3	3	4	5								
	16	3	4	5	7								
	24	4	6	8	10								
	32	5	8	10	13								
	48	7	11	15	20								
7:12	12	3	3	3	4								
	16	3	3	4	5								
	24	3	4	6	7								
	32	4	6	8	10								
	48	5	8	11	14								
9:12	12	3	3	3	3								
	16	3	3	3	4								
	24	3	3	5	6								
	32	3	4	6	8								
	48	4	6	9	11								
12:12	12	3	3	3	3								
	16	3	3	3	3								
	24	3	3	3	4								
	32	3	3	4	5								
	48	3	4	6	7								

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 pound per square foot = 47.8 N/m².

- a. 40d box (5" × 0.162") or 16d sinker (3¹/₄" × 0.148") nails are permitted to be substituted for 16d common (3¹/₂" × 0.16") nails.
- b. Nailing requirements are permitted to be reduced 25 percent if nails are clinched.
- c. Rafter tie heel joint connections are not required where the ridge is supported by a load-bearing wall, header or ridge beam.
- d. When intermediate support of the rafter is provided by vertical struts or purlins to a load-bearing wall, the tabulated heel joint connection requirements are permitted to be reduced proportionally to the reduction in span.
- e. Equivalent nailing patterns are required for ceiling joist to ceiling joist lap splices.
- f. Connected members shall be of sufficient size to prevent splitting due to nailing.

2308.10.4.2 Notches and holes. Notching at the ends of rafters or ceiling joists shall not exceed one-fourth the depth. Notches in the top or bottom of the rafter or ceiling joist shall not exceed one-sixth the depth and shall not be located in the middle one-third of the span, except that a notch not exceeding one-third of the depth is permitted in the top of the rafter or ceiling joist not further from the face of the support than the depth of the member.