

Trus Joist® TJI® Joist Residential Bonus Room Tables (Roof Live Load – 30 psf at 115%)

BOUNS ROOM FLOOR SPAN TABLE

Span	TJI® Joist Spacing		
	16" o.c.	19.2" o.c.	24" o.c.
20'	14" TJI® 230 11 7/8" TJI® 560	14" TJI® 360	14" TJI® 560
22'	16" TJI® 230 14" TJI® 360	16" TJI® 360	16" TJI® 560
24'	16" TJI® 360	16" TJI® 560	16" TJI® 560 ^[2]
26'	16" TJI® 560 18" TJI® 360 ^[1]	18" TJI® 560 ^[1]	18" TJI® 560 ^{[1][2]}

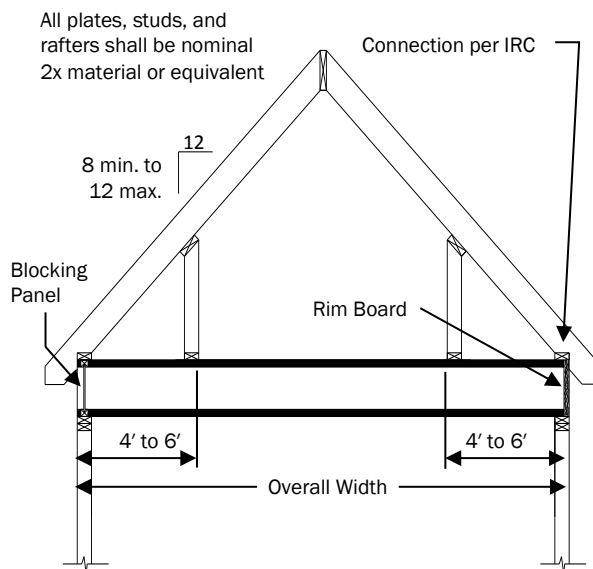
[1] Do not rafter cut 18" or deeper joists.
[2] Minimum end bearing of 3 1/2" required.

General Notes

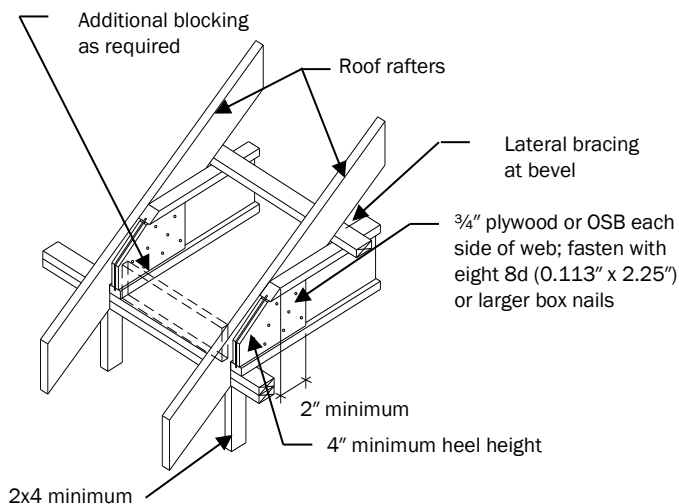
- Table is based on:
 - Roof dead load of 15 psf.
 - Roof live load of 30 psf and 115% load duration.
 - Floor live load (inside knee walls) of 40 psf.
 - Floor attic load (outside knee wall) Of 20 psf.
 - Floor dead load of 10 psf, 12 psf for TJI® 560 joists.
 - Deflection criteria of L/480 live load, L/240 total load.
 - Roof slope between 8:12 and 12:12.
 - Minimum end bearing Of 2 1/4".
- Locate knee walls 4' to 6' from end of joist.
- Rafter cuts on TJI® joists are permitted when reinforcement is provided (Except as noted in Table). See Reinforced Rafter Cut detail below.
- Assumed composite action with a single layer of 24" o.c. span-rated, glue-nailed floor panels for deflection only.
- Lateral design and uplift connections by others.

Rafter-Heel Connection

Rafter thrust force must be considered. Rafter heel connection by others.



Reinforced Rafter Cut Detail



Do not rafter cut 18" or deeper joists.