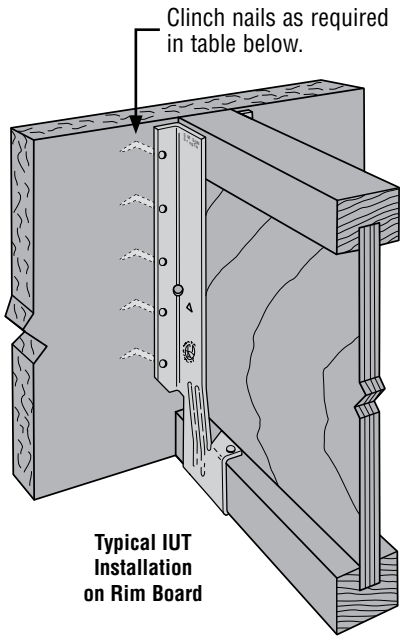
TECHNICAL BULLETIN

HANGERS ON RIM BOARD HEADERS

Rim board is an engineered wood product that is typically used as a material for rim joists. There are many types of rim board, and they are made of dimensionally stable material such as LVL, LSL and some types of OSB. The various types of rim board are available in thicknesses of 1" to 1¾". This technical bulletin does not address I-joist rim joists.



Typical IUT Installation on Rim Board

Face Mount Hangers on Rim Board

- Face mount hangers noted in the table below may be used on rim board provided the rim board is at least 1" thick and approved as rim board by ICC-ES.
- Compute the allowable load by multiplying the catalog load by the reduction factor given in the table below. All other catalog instructions apply.
- For rim boards with the following equivalent specific gravities, use the reduction factors in the table below with the appropriate values from the current *Wood Construction Connectors* catalog:
  - For rim boards with equivalent specific gravity of 0.49 or better, use the reduction factors in the table below with the Douglas Fir catalog values.
  - For rim boards with equivalent specific gravity of 0.42 to 0.48, use the reduction factors in the table below with SPF catalog values.

Reduction Factor For Face Mount Hangers in Rim Board Applications[1]

Apply these factors to the hanger capacities found in the current *Wood Construction Connectors* catalog.

Joist Hanger	Face Nails Specified in Catalog	Face Nails for Rim Board Attachment	OSB[2] Rim Board At Least 1" Thick	LSL Rim Board At Least 1¼" Thick	LVL Rim Board At Least 1¼" Thick	2x Solid Sawn Rim Joist, 1¾" LSL, or 1¾ LVL
IUT	10d x 1-1/2	10d x 1-1/2	do not use	1.00	do not use	1.00
	10d	10d clinched[3]	0.75	1.00	1.00	1.00
IUS	10d	10d x 1-1/2	do not use	0.77	do not use	0.77
	10d	10d clinched[3]	0.75	1.00	1.00	1.00
MIU, U, HU	16d	10d x 1-1/2	do not use	0.64	do not use	0.64
	16d	16d clinched[3]	0.75	1.00	1.00	1.00

1. Reference should be either Douglas Fir or SPF based on the equivalent specific gravity found in the manufacturer's evaluation report.
2. Maximum load allowed by any hanger on OSB rim board is 3800 pounds.
3. 16d x 2-1/2 or 10d x 2-1/2 nails may be substituted for common nails provided they can be clinched a minimum of 4 diameters on the back side.
4. NAILS: 10d x 1-1/2 = 0.148" dia x 1-1/2" long, 10d = 0.148" dia x 3" long, 16d = 0.162" dia x 3-1/2" long.

Top Flange Hangers on Rim Board

Top flange hangers typically do not work well on rim board unless the hanger has a top flange that is not longer than the thickness of the rim board. The ITT is the only Simpson hanger available for use on 1¾" rim board (with equivalent specific gravity of 0.49 or better) using the following allowable loads:

1¾" LVL rim board – 1235 lbs.

1¾" LSL rim board – 1435 lbs.

Use 10dx1½" nails. All other catalog instructions apply.

This technical bulletin is effective until ~~January 31, 2009~~, and reflects information available as of August 1, 2007. This information is updated periodically and should not be relied upon after ~~January 31, 2009~~; contact Simpson for current information and limited warranty or see www.strongtie.com.

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