

The RST3 rafter tie is designed to anchor trusses and rafters directly to the stud below. The ability to field-bend the RST3 permits fastening to either the wide or narrow face of the stud.

**Materials:** 18 gauge  
**Finish:** G90 galvanizing

**Installation:**

- Use all specified fasteners.
- If necessary, field bend the lower tab of the RST3 at 90° at the two bend slots.
- Not all fastener holes need to be filled.
- Fasteners in truss do not need to penetrate a nailing plate to achieve the uplift loads listed below.
- The RST3 can be installed in pairs (on opposite sides of the wall, to achieve twice the uplift capacity).



RST3



Figure 1



Figure 2



Figure 3



Figure 4



Figure 5



Figure 6

MiTek USP Stock No.	Ref. No.	Steel Gauge	Dimensions (in)		Installation Type	Qty of RST3's	Fastener Schedule				DF/SP Allowable Loads (Lbs.) <sup>1</sup>	S-P-F Allowable Loads (Lbs.) <sup>1</sup>	Code Ref.
			W	L			Rafter/Truss		Stud				
							Qty <sup>3</sup>	Type <sup>2</sup>	Qty <sup>3</sup>	Type <sup>2</sup>	Uplift 160%	Uplift 160%	
RST3	RST-3	18	1-1/2	10-5/16	Figure 1	1	4	#8 x 1-1/2	4	#8 x 1-1/2	555	465	--
					Figure 2	1	4	#8 x 1-1/2	4	#8 x 1-1/2	555	465	
					Figure 3	2	8	#8 x 1-1/2	8	#8 x 1-1/2	1110	930	
					Figure 4	2	8	#8 x 1-1/2	8	#8 x 1-1/2	1110	930	
					Figure 5	2	8	#8 x 1-1/2	8	#8 x 1-1/2	1110	930	
					Figure 6	2	8	#8 x 1-1/2	8	#8 x 1-1/2	1110	930	

1) Allowable loads have been increased 60% for wind or seismic loads; no further increase shall be permitted.

2) The #8 x 1-1/2 Wood Screw has a diameter of 0.164" and a length of 1-1/2".

3) Fastener quantities shown are the total number installed in (1) or (2) RST3 connectors.

# MRT7 Rafter Tie

# Manufactured Housing Connectors

MH Connectors

The MRT7 Rafter Tie is engineered for wood frame structures built in a factory environment. These connectors feature embossed "nailing zones" for faster and safer fastener installation.

**Materials:** 14 gauge  
**Finish:** G90 galvanizing

**Installation:**

- Install all specified fasteners using a pneumatic nailer.
- Nailing zones are distinguished by embossed pattern.
- Install fasteners with care not to overdrive fastener causing indentation of connector.
- Fastener quantities shall be installed symmetrically on both sides of connector.
- Installer should reduce risk of injury from rebounding fasteners by using personal eye protection during fastener installation.
- Minimum center-to-center fastener spacing is 1".



**Typical MRT7 installation**



**Typical Knee Wall Set with MRT7 installation**



MiTek USP Stock No.	Ref. No.	Steel Gauge	Dimensions (in)		Fastener Schedule <sup>1,2,3</sup>			DF/SP Allowable Loads (Lbs.)			S-P-F Allowable Loads (Lbs.)			Code Ref.
			W	L	Header Qty	Joist Qty	Type	Uplift <sup>4</sup> 160%	F1 160%	F2 160%	Uplift <sup>4</sup> 160%	F1 160%	F2 160%	
MRT7	MMH8	18	1-1/4	7-13/16	3	3	P or "T" nails	295	135	135	255	85	85	--
					4	4	P or "T" nails	390	180	180	340	115	115	
					5	5	P or "T" nails	490	195	195	425	145	145	
					6	6	P or "T" nails	585	195	195	510	175	175	

- 1) "P" nails denotes fasteners designed specifically to be installed with a pneumatic-powered nailer. The fasteners shall be either of a type with round heads, 0.105" diameter and 1-3/8" long; or a "T" shaped head, 0.097" diameter, 1-1/4" long and hardened; or a similar but larger fastener.
- 2) Fasteners shall be pneumatically driven in such a way as firmly seats the nail head against the hanger steel, without embedding the nail head completely through the plane of the metal surface, or otherwise punching through.
- 3) The quantity of nails installed shall be equally distributed to both sides of the hanger. The nails shall be located at 1" spacing in a row, with the vertical rows spaced at 3/8"; also no less than 5/16" from a sheared edge and no less than 5/16" from a formed edge.
- 4) Uplift loads have been increased 60% for wind or seismic load conditions; no further increase shall be permitted.

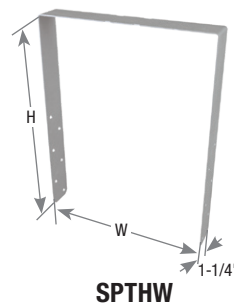
# SPTHW Stud Plate Ties

MiTek's SPTHW is a Stud Plate Tie that can be installed on the top and bottom of each stud at the component plant to stiffen for shipping and handling. Designed to be installed over 1/2" structural sheathing.

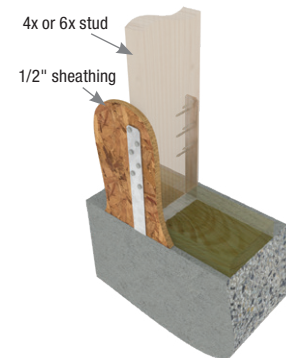
**Materials:** 18 gauge  
**Finish:** G90 galvanizing  
**Codes:** IBC, FL, LA

**Installation:**

- Install all specified fasteners.



**SPTHW**



**Typical SPTHW installation**

Stud Size	MiTek USP Stock No.	Ref. No.	Steel Gauge	Dimensions (in)		Fastener Schedule <sup>2</sup>		DF/SP Allowable Loads (Lbs.)	Code Ref.
				W	H	Qty	Type	Uplift 160% <sup>1</sup>	
4x	SPTHW4	SPH4R	18	4-1/16	8-3/8	12	10d x 1-1/2	2195	IBC, FL, LA
6x	SPTHW6	SPH6R	18	6-1/16	9-1/8	12	10d x 1-1/2	2195	FL, LA

- 1) Uplift loads have been increased 60% for wind or seismic loads; no further increase shall be permitted.
- 2) **NAILS:** 10d x 1-1/2 nails are 0.148" dia. x 1-1/2" long.

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