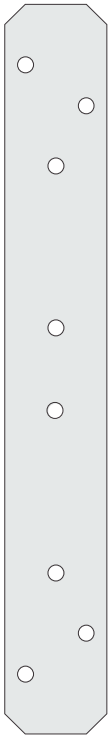
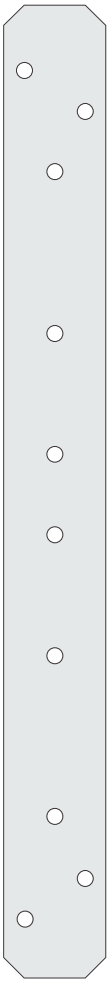
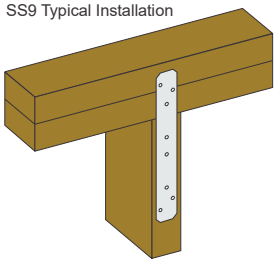
SS

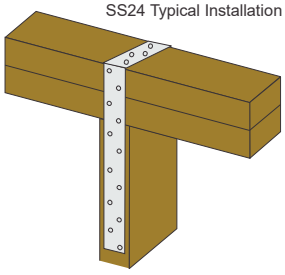




SS9 Typical Installation



SS24 Typical Installation



DESIGN FEATURES

Provide the builder with a complete range of tie straps to meet a variety of application and design load conditions and specifications.

APPLICATIONS

Use as all-purpose ties to connect studs to sill, rafters to plates and beams, wall intersections, ridges, upper floor to lower floor wall studs, window reinforcement. All nail holes must be filled to achieve published uplift values. Special lengths available based upon your specifications (not specifically code listed due to many length combinations). Considered essential by code officials and insurance companies in maintaining a continuous load path, therefore mitigating destruction from high winds and seismic activity. SS18/24 have notched corners (more user friendly) SS9/12 have 4 holes within 1-1/2" of one end to enable 4 nails to enter a bottom plate per TDI request.

MATERIAL

20 ga. & 18 ga. galvanized steel

CODES

FL Approval #8283, ICC ESR-1347

NOTES

1. Nails are 10d by 3 inch joist hanger nails complying with section 3.8.3. Allowable tension loads are based on conditions with an equal number of nails on either side of the connection. In cases where this condition is not met, allowable tension loads must be based on the side of the connection having the fewest nails.
10d x 1-1/2" nails can be substituted for 10d x 3" nails. Section 3.8.3 of the report allows the use of both 1-1/2" and 3" nails because the shear capacity of both the nails is the same.

2. Allowable tension loads include load duration factor of 1.6 per section 2.3.2 of NDS 2001. No further increases in allowable loads are permitted.

3. Allowable tension loads are based on Southern Pine (SYP) with a specific gravity of 0.55, Dougles Fir-Larch (DFL) with specific gravity 0.50, and Spruce-Pine-Fir (SPF) or Hem-Fir (HF) wih specific gravity of 0.42.

4. Tabulated loads are for ASTM A653 Steel with Fy=33 ksi and Fu=45 ksi.

ITEM ID	STEEL YIELD AND TENSILE STRENGTHS (ksi)	STEEL GAUGE	DIMENSIONS (INCHES)	10d NAILS[1] (Quantity Each End)
SS9	F_y = 33 ksi, F_y = 45 ksi	20	1-1/4 x 10"	3, 4
SS12	F_y = 33 ksi, F_y = 45 ksi	20	1-1/4 x 12"	3, 4, 5
SS18	F_y = 33 ksi, F_y = 45 ksi	20	1-1/4 x 18"	3, 4, 5, 6, 7, 8
SS24	F_y = 33 ksi, F_y = 45 ksi	20	1-1/4 x 24"	5, 6, 7, 8, 9, 10, 11
SS30	F_y = 33 ksi, F_y = 45 ksi	20	1-1/4 x 30"	7, 8, 9, 10, 11
SS36	F_y = 33 ksi, F_y = 45 ksi	20	1-1/4 x 36"	8, 9, 10, 11, 12, 14