DSP/SSP/SP/SPH/RSP4/TSP Stud Plate Ties



This product is preferable to similar connectors because of a) easier installation, b) higher loads, c) lower installed cost, or a combination of these features.

The Stud Plate Tie series offers various solutions for connecting the stud to the top and bottom plates. All models can be used to make a connection to either the top or bottom plate, and several are suitable for double top plates and studs.

MATERIAL: DSP/SSP/SPH—18 gauge; TSP—16 gauge; all others—20 gauge FINISH: Galvanized. Some products available in ZMAX® coating; see Corrosion Information, page 10-11.

INSTALLATION: • Use all specified fasteners; see General Notes.

- TSP/DSP/SSP—sill plate installation-fill all round holes.
- TSP/DSP/SSP—top plate installation-fill all round and triangle holes
- SP1/SP2/SP3/SP5—one of the 10d common stud nails is driven at a 45° angle through the stud into the plate.

CODES: See page 12 for Code Reference Key Chart.

These products are available with additional corrosion protection. Additional products on this page may also be available with this option, check with Simpson Strong-Tie for details.

	Model No.	Dim.		Fasteners			Allowabl	0-4-			
		W	L	Studs	Double	Single	Double Top Plate	teld ills dinuis		Code Ref.	
					Top Plate	Sill Plate	DF/SP/SPF	DF/SP	SPF/HF		
				4-10dx1½	3-10dx1½	_	350	_	_		
	SSP	13/	611/16			1-10dx1½	_	420	325		
	JJF	17/8	0'/16	4-10d	3-10d	_	435	_	_	117,	
						1-10d	_	455	420		
			611/16	8-10dx1½	6-10dx1½	_	775	_		F16	
	DSP	23/				2-10dx1½		660	545		
	טטר	2 74		8-10d	6-10d	_	825	_	_		
						2-10d	_	825	600	0	
	TSP		7%	6-10dx1½	_	3-10dx1½		395	345	F26	
		1½				3-10d		395	370		
		1 //2		9-10dx1½	6-10dx1½		755 ⁴		_		
					6-10d		1015⁴				

- 1. Allowable loads have been increased 60% for wind or earthquake loading with
- no further increase allowed.

 2. When cross-grain bending or cross-grain tension cannot be avoided, mechanical reinforcement to resist such forces should be considered.
- 3. Allowable loads for DSP installed to a rim joist are 660 lbs. (DF/SP), 545 lbs. (SPF/HF).
- 4. Noted values only apply to DF/SP members. For SPF values, multiply by 0.86.
- 5. **NAILS:** 10d = 0.148" dia. x 3" long, $10dx1\frac{1}{2} = 0.148$ " dia. x $1\frac{1}{2}$ " long. See page 16-17 for other nail sizes and information.

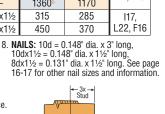
	Madal	Dim.			Dist	Fasteners		Allowable l			
	Model No.	W	L	Stud	Plate Width	Stud ¹	Plate	DF/SP	SPF/HF	Code Ref.	
	110.							(160) ²	(160)		
	SP1	3½	51/16	2x		6-10d	4-10d	585	535	I17, F16	
	SP2	3½	6%	2x	_	6-10d	6-10d	1065	605	117,110	
	SP3	4½	6%	3x	_	6-10d	6-10d	1065	605	170	
	SP4	3%16	71/4	2x	4x	6-10dx1½		885	760	I17, F16	
	SP5	4½	51/16	3x	_	6-10d	4-10d	585	535	170	
	SP6	5%16	7¾	2x	6x	6-10dx1½	_	885	760	I17, F16	
	SP8	75/16	85/16	2x	8x	6-10dx1½	_	885	760		
	SPH4 or	3%16	83/4	2x	4x	10-10dx1½	_	1240	1065	I17, F16	
	SPH4R	41/16	81/4	ZX		12-10dx1½		1360 ⁵	1170	170	
	SPH6 or	5%16	91/4	2x	6x	10-10dx1½		1240	1065	I17, F16	
凾	SPH6R	61/16	8¾	2,1	UΧ	12-10dx1½		1360 ⁵	1170	170	
	SPH8	75/16	8%	2x	8x	10-10dx1½		1240	1065	I17, F16	
	35110					12-10dx1½		1360 ⁵	1170		
	RSP4(1)	21/8	4½	2x		4-8dx1½	4-8dx1½	315	285	l17,	
	RSP4(2)	21/8	41/2	2x		4-8dx1½	4-8dx1½	450	370	L22, F16	

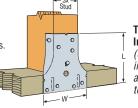
1. SP1, 2, 3 and SP5: drive one stud nail at an angle through the stud into the plate to achieve the table load (see illustration).

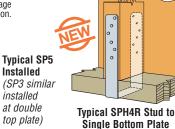
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- Allowable loads have been increased for wind or earthquake loading with no further increase allowed. Reduce where other loads govern.
 RSP4-see Installation details (1) and (2) for reference.
 RSP4 F₂ is 250 lbs. (installation 1) and 250 lbs. (installation 2). F₁ load is 210 lbs. for both installations.

- Maximum load for SPH in Southern Yellow Pine is 1490 lbs.
 When cross-grain bending or cross-grain tension cannot be avoided, mechanical reinforcement to
- resist such forces should be considered.
- 7. For retrofit application see technical bulletin T-STRAP (see page 191 for details).





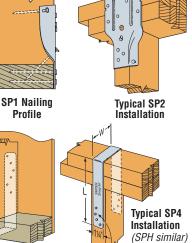


Stud

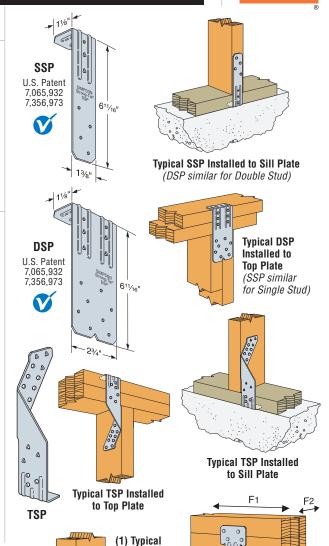
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SP₁



10dx1½" Nails Each Side of Stud



RSP4

Stud to Single **Bottom Plate** U.S. Patent 5,697,725