RPS *Strap Ties*

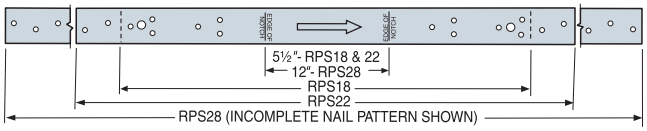
The RPS meets IBC, IRC and City of Los Angeles code requirements for HVAC and pipes in walls.

FINISH: Galvanized, some products available in ZMAX® coating. See Corrosion Information, page 18-19.

INSTALLATION: Use all specified fasteners. See General Notes.

CODES: See page 20 for Code Reference Key Chart.

Use RPS22 or RPS28 (16 gauge) to reinforce top plate.
Use RPS18Z, RPS22Z or RPS28Z (16 gauge ZMAX) to reinforce sill plate.
- International Residential Code®- 2006 R602.6.1
- International Building Code®- 2006 2308.9.8

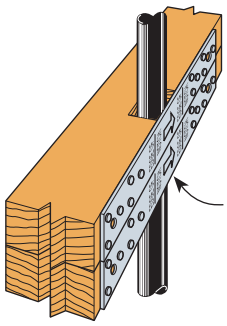


RPS

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.	Ga	Dimensions W	Dimensions L	Notch Width	Fasteners (Total) Nails	Allowable Tension Loads (DF/SP) (160)	Allowable Tension Loads (SPF/HF) (160)	Code Ref.
RPS18	16	1½	18⅝16	≤ 5½"	12-16d	1380	1190	I16, L9, F15
RPS22		1½	22⅝16	≤ 5½"	12-16d	1380	1190	
		1½	22⅝16		16-16d	1805	1585	
RPS28		1½	28⅝16	≤ 12"	12-16d	1380	1190	
		1½	28⅝16		16-16d	1805	1585	

1. Loads include a 60% load duration increase on the fasteners for wind or earthquake loading.
2. To meet the prescriptive IRC requirement 10dx1½ (0.148" dia. x 1½" long) may be used.
3. **NAILS:** 16d = 0.162" dia. x 3½" long. See page 24-25 for other nail sizes and information.



For installations on both sides of the plate, arrows should always point to the right.

Typical RPS Installation
(Only one strap may be necessary to meet IRC requirements)

HSS/SS *Stud Shoes*

Stud Shoes reinforce studs notched in construction. They are NOT a total replacement of removed material. Installs over pipe up to 2⅜" outside diameter.

HSS2-3 is designed for triple 2x studs.

HSS Stud Shoes provide tension load capacity as well as increased compression loads. Flared flange provides greater strength.

MATERIAL: 16 gauge **FINISH**: Galvanized

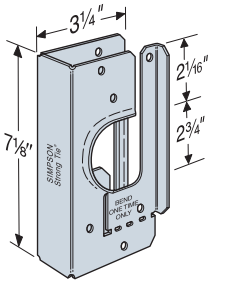
INSTALLATION: Use all specified fasteners. See General Notes.
- HSS: Bend flanges at 90° angle during installation, then bend back and screw into position *(screws supplied)*.
- Bend flanges one cycle only.

CODES: See page 20 for Code Reference Key Chart.

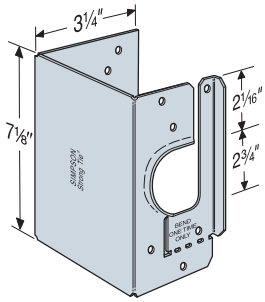
HSS2-SDS1.5 (16 gauge) Heavy stud shoes to reinforce and protect single 2x studs where pipe is located. Uses 12 Simpson Strong-Tie® Strong-Drive® ¼"x1½" SDS screws *(included)*.
- IRC - 2006 R602.6 and P2603.2.1
- IBC - 2006 2308.9.10 & 2308.9.11
- IPC - 2000/2003/2006 305.8

HSS2-3-SDS3 (16 gauge) Heavy stud shoe for triple 2x stud. Uses 12 Simpson Strong-Tie ¼"x3" SDS screws *(included)*.
- IRC - 2006 R602.6 and P2603.2.1
- IBC - 2006 2308.9.10 & 2308.9.11
- IPC - 2006 305.8

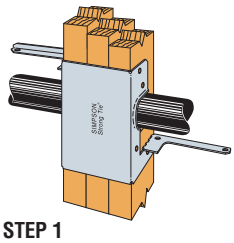
SS1.5 (16 gauge) stud shoes reinforce and protect plumbing in 2x.
- IRC - 2006 R602.6 and P2603.2.1
- IBC - 2006 2308.9.10 & 2308.9.11
- IPC - 2006 305.8



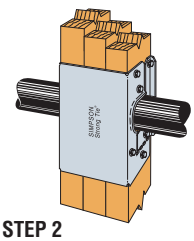
HSS
US Patent 6,176,057



HSS2-3



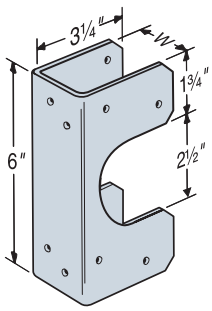
STEP 1
Install HSS *(HSS2-3 shown)* over stud with flanges bent at a 90° angle.



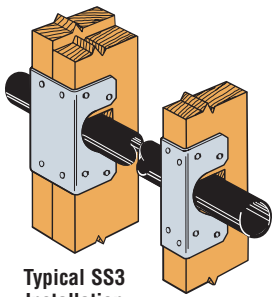
STEP 2
Bend HSS *(HSS2-3 shown)* flanges one time only. Screw into position.

Model No.	Stud Size	Fasteners	Allowable Loads[1] DF/SP Compression Floor (100)	Allowable Loads[1] DF/SP Compression Roof (125)	Allowable Loads[1] DF/SP Tension	Code Ref.
SS1.5	2x	12-10dx1½	500	500	—	I16, F15
SS2.5	3x	12-10dx1½	500	500	—	
SS3	2-2x	12-10d	665	785	—	
SS4.5	3-2x	14-10d	665	785	—	
HSS2-SDS1.5	2x	12-SDS ¼"x1½"	1200	1200	1000	
HSS2-2-SDS3	2-2x	12-SDS ¼"x3"	1200	1200	1000	
HSS2-3-SDS3	3-2x	12-SDS ¼"x3"	1000	1000	970	
HSS4-SDS3	4x	12-SDS ¼"x3"	1200	1200	1000	

1. Roof loads are 125% of floor loads unless limited by other criteria. Floor loads may be adjusted for other load durations according to the code, provided they do not exceed roof loads.
2. **NAILS:** 10d = 0.148" dia. x 3" long, 10dx1½ = 0.148" dia. x 1½" long. See page 24-25 for other nail sizes and information.



SS



Typical SS3 Installation

Typical SS1.5 Installation