

MSCPT Multiple Truss Hangers

The MSCPT is a high capacity, top flange welded hanger designed to carry 2 or 3 trusses in a terminal hip installation. The top flange is notched at the center to accommodate vertical and diagonal web members in the girder truss.

MATERIAL: Top flange—3 gauge; stirrup—11 gauge (MSCPT2, MSCPT2N), 7 gauge (MSCPT2-2, MSCPT2-2N)

FINISH: Simpson Strong-Tie® gray paint

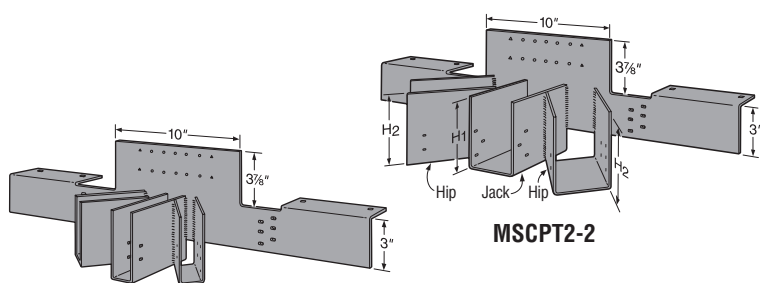
INSTALLATION: • Use all specified fasteners. See General Notes.

- The total load must be evenly distributed about the centerline to avoid eccentric loading.
- All multiple members must be fastened together to act as a single unit.
- Minimum vertical carrying member sizes are 2x6 for MSCPT2 and MSCPT2N, and 2x8 for MSCPT2-2 and MSCPT2-2N.
- Minimum carrying member bottom chord is a 2-ply 2x6.

OPTIONS: • H₁ and H₂ may be increased for alignment with larger bottom chords.

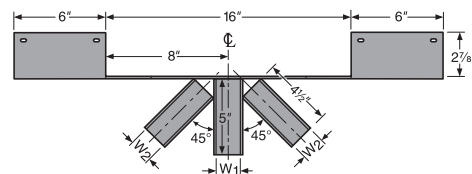
- Hip stirrups can be skewed from 25° to 45°.
- The W₁ and W₂ of the MSCPT2 may be increased up to 3⁷/₁₆", provided the stirrups' configuration remains symmetrical.

CODES: See page 12 for Code Reference Key Chart.

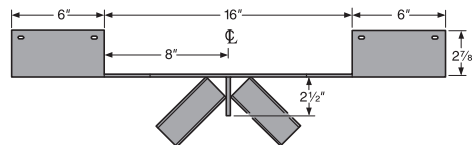


MSCPT2

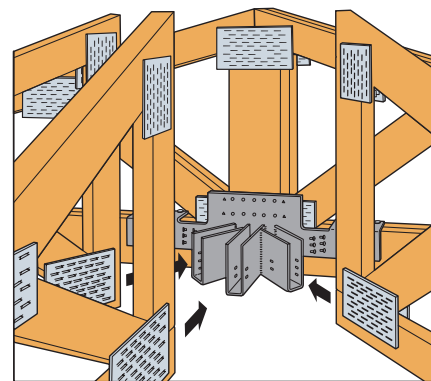
MSCPT2-2



MSCPT2 Top View (MSCPT2-2 similar)



MSCPT2N Top View (MSCPT2-2N similar)



Typical MSCPT2 Installation

Model No.	Dimensions			Fasteners		DF/SP Allowable Loads ^{1,2}						Code Ref.
	W ₁ & W ₂	H ₁ & H ₂ (min.)	TF	Header	Joists	Uplift (160)			Floor/Snow/Roof/Wind (100/115/125/160)			
						Hip	Jack	Total	Hip	Jack	Total	
MSCPT2	1 ⁵ / ₁₆	5 ¹ / ₄	2 ⁷ / ₈	26-16d	18-10dx1 ¹ / ₂	750	370	1870	3145	1570	7860	F23
MSCPT2N	1 ⁵ / ₁₆	5 ¹ / ₄	2 ⁷ / ₈	26-16d	14-10dx1 ¹ / ₂	750	—	1500	3930	—	7860	
MSCPT2-2	3 ⁵ / ₁₆	5 ¹ / ₄	2 ⁷ / ₈	30-16d	20-10d	750	370	1870	3470	1735	8675	
MSCPT2-2N	3 ⁵ / ₁₆	5 ¹ / ₄	2 ⁷ / ₈	30-16d	14-10d	750	—	1500	4335	—	8675	

Model No.	Dimensions			Fasteners		SPF/HF Allowable Loads ^{1,2}						Code Ref.
	W ₁ & W ₂	H ₁ & H ₂ (min.)	TF	Header	Joists	Uplift (160)			Floor/Snow/Roof/Wind (100/115/125/160)			
						Hip	Jack	Total	Hip	Jack	Total	
MSCPT2	1 ⁵ / ₁₆	5 ¹ / ₄	2 ⁷ / ₈	26-16d	18-10dx1 ¹ / ₂	645	320	1610	3000	1500	7500	F23
MSCPT2N	1 ⁵ / ₁₆	5 ¹ / ₄	2 ⁷ / ₈	26-16d	14-10dx1 ¹ / ₂	645	—	1290	3470	—	6940	
MSCPT2-2	3 ⁵ / ₁₆	5 ¹ / ₄	2 ⁷ / ₈	30-16d	20-10d	645	320	1610	3000	1500	7500	
MSCPT2-2N	3 ⁵ / ₁₆	5 ¹ / ₄	2 ⁷ / ₈	30-16d	14-10d	645	—	1290	3750	—	7500	

- For MSCPT2 and MSCPT2-2 models, allowable hip loads are 0.40 x Total Loads, and Jack Loads are 0.20 x Total Loads.
- Uplift loads have been increased 60% for wind or earthquake loading with no further increase allowed; reduce where other loads govern.
- Wind (160) is a download rating.
- NAILS:** 16d = 0.162" dia. x 3¹/₂" long, 10d = 0.148" dia. x 3" long, 10dx1¹/₂ = 0.148" dia. x 1¹/₂" long. See page 16-17 for other nail sizes and information.

DSC Drag Strut Connector

The DSC Drag Strut Connector transfers diaphragm shear forces to the shear walls. The DSC2 is a smaller, lighter version that installs with fewer screws.

MATERIAL: DSC2—7 gauge, DSC4—3 gauge

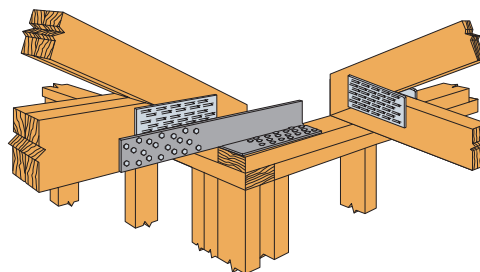
FINISH: DSC2—Galvanized

DSC4—Simpson Strong-Tie gray paint

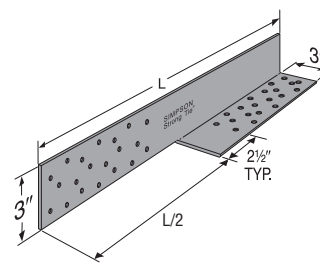
INSTALLATION: • Use all specified fasteners; see General Notes.

- Screws are provided.

CODES: See page 12 for Code Reference Key Chart.



Typical DSC4R-SDS3 Installation (DSC2 similar)



DSC4R/L-SDS3

(DSC2 similar)
(Right hand DSC shown; specify right or left hand when ordering)

U.S. Patent 6,655,096

Model No.	L (in.)	Fasteners	DF/SP Allowable Loads		SPF/HF Allowable Loads		Code Ref.
			Compression (160)	Tension (160)	Compression (160)	Tension (160)	
DSC2R/L-SDS3	16	20-SDS 1/4"x3"	2590	3720	1865	2680	F26
DSC4R/L-SDS3	21	40-SDS 1/4"x3"	4935	4235	3555	3050	160

- Allowable loads have been increased 60% for wind or earthquake loading with no further increase allowed; reduce where other loads govern.
- Simpson Strong-Tie SDS screws minimum penetration is 2³/₄", minimum end distance is 2¹/₂" and minimum edge distance is 5⁸/₁₆" for full load values.
- Lag screws will not achieve table loads.
- Simpson Strong-Tie Strong-Drive® screws (SDS) are permitted to be installed through metal truss plates as approved by the Truss Designer, provided the requirements of ANSI/TPI 1-2007 Section 8.9.2 are met (*pre-drilling required through the plate using a maximum of 5/32" bit*).