Hanger Parts Table				
Maximum Sprinkler Pipe Dia. 5 in. (127mm)				
Truss Chord	Trusses at 24" (610mm) O.C.	Trusses at 48" (1	219mm) 0.C.	
Size	Trapeze Member	Trapeze Member	Support Post	
TSC2.75	(2)362S162-43	*(2)362S162-68	33W.75x1.5	
TSC2.75	(2)600\$162-33	*(2)600S162-43	33W.75x1.5	
TSC4.00	(2)362\$162-43	*(2)362S162-68	33W1.5x1.5	
TSC4.00	(2)600\$162-33	*(2)600S162-43	33W1.5x1.5	

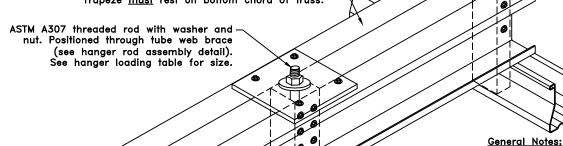
*Grade 50 steel required.

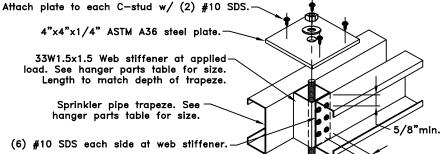
TS tube vertical support posts. See hanger parts table for size.

Minimum length to match depth of truss chord plus trapeze.

Double C-stud trapeze member. See hanger parts table for size. Space at 15ft (4572mm) maximum. Each end to extend 1/4" (6mm) minimum beyond truss chord.

Trapeze must rest on bottom chord of truss.



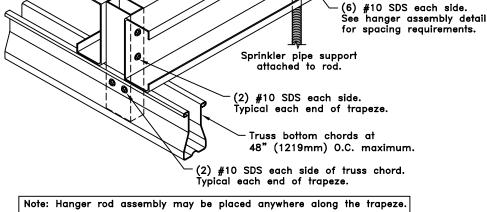


Hanger Rod Assembly Detail

Hanger Loading Table 5 in. (127mm) Maximum Diameter Pipe			
Sprinkler Pipe	Maximum Allowable Hanger	Threaded Rod	
Diameter in. (mm)	Load Ibs. (kN)	Dia. in. (mm)	
2 1/2 (25)	840 (3.74)	3/8 (10)	
3 (76)	1060 (4.71)	3/8 (10)	
3 1/2 (89)	1260 (5.60)	3/8 (10)	
4 (102)	1475 (6.55)	3/8 (10)	
5 (127)	2000 (8.90)	1/2 (13)	
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* Allowable hanger loads based on maximum hanger spacing. (see note 8)

- 1. SDS = self-drilling tapping screw. Screw spacing, end and edge distance is 5/8" (16mm) min.
- 2. The minimum yield strengths of materials are as follows (unless otherwise noted): C—Stud Trapeze = 33ksi, Tube steel support posts = 45ksi, TrusSteel Chords = 55ksi.
- 3. This detail is only for the design of the sprinkler pipe hanger. Contact a TrusSteel engineer for the proper truss loading procedures.
- 4. It is the responsibility of the architect or engineer of record to review this hanger design to verify it conforms with the overall sprinkler system support design.
- 5. Allowable hanger load determined from the National Fire Protection Association NFPA13 1999 titled "Installation of Sprinkler Systems".
- 6. Maximum sprinkler pipe size that can be supported by this detail is 5" (127mm) in diameter.
- 7. Pipe weight determined using schedule 40 steel pipe.
- Pipe hanger spacing not to exceed 12' (3658mm) for pipes up to and including 1-1/4" (32mm) diameter and 15' (4572mm) for pipes greater than 1-1/4" (32mm) diameter per NFPA13 1999.
- Vertical truss web may be used as trapeze support post provided it is designed to carry additional sprinkler loads per proper truss loading procedures.



TrusSteel®

Division of ITW Building Components Group, Inc.

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SECURIOR WOODS

Standard Detail: TS049G

Date:

06/04/07

TrusSteel Detail Category:

Bottom Chord Sprinkler Hanger

ITW Building Components Group, Inc. shall not be responsible for any performance failure in a connection due to a deviation from this detail. Any variation from this detail shall be approved in advance by ITW Building Components Group, Inc.