	Hanger Parts Table				
	Taura Chand Sia	Trusses at 24" (610mm) O.C.		Trusses at 48" (1219mm) O.C.	
	Truss Chord Size	Trapeze Member	Support Post	Trapeze Member	Support Post
	TSC2.75	362S162-33 min.	33W.75x.75	362S162-54 min.	33W.75x1.5
Truss top chords at _	TSC2.75	600S162-33 min.	33W.75x.75	600S162-33 min.	33W.75×1.5
48" (1219mm) O.C. maximum.	TSC3.00 or TSC4.00	362S162-33 min.	33W1.5x1.5	362S162-54 min.	33W1.5x1.5
	TSC3.00 or TSC4.00	600S162-33 min.	33W1.5×1.5	600S162-33 min.	33W1.5x1.5
e vertical support posts. See hanger parts table for size. length to match the depth of truss chord plus trapeze. Existina truss web may be used as trapeze support post		Sprinkler P	· · · · · · · · · · · · · · · · · · ·	ameter & Hanger Load n Hanger Load   Maxi	d imum Hanger

Sprinkler Pipe Diameter & Hanger Load					
Sprinkler Pipe Diameter in. (mm)	Maximum Hanger Load Ibs. (kN)	Maximum Hanger Spacing ft (mm)			
1 (25)	370 (1.65)	12 (3658)			
1 1/4 (32)	430 (1.91)	12 (3658)			
1 1/2 ( 38)	520 (2.31)	15 (4572)			
2 (51)	630 (2.80)	15 (4572)			

\* Values given are based on maximum hanger spacing.

	13
TS tube vertical support posts. See hanger parts table for Minimum length to match the depth of truss chord plus tra Existing truss web may be used as trapeze support provided it has been designed to support the	ppeze.
C—stud (unpunched) trapeze member. See hanger parts tal for size. Each end shall extend 1/4" (16mm) min. beyo truss chord. See hanger loading table for spacin	ond
3/8" (10mm) diameter ASTM A307 threaded rod with washer and nut positioned through center of flange. Washer inside Diameter = 7/16" (11mm) Washer outside Diameter = 13/16" (21mm)	
362S162-33 Web stiffener at applied load. Length to match trapeze depth.	
	7/16" (11mm) diameter predrille hole centered on flange
	(4) #10SDS screws at web stiffener.

(3) #10SDS at each

Note: Hanger rod assembly may be placed anywhere along the trapeze.

end of trapeze. (TYP)

General Notes:

- SDS = self-drilling tapping screw. Screw spacing, end and edge distance is 9/16" (14mm) min.
- oredrilled 2. The minimum yield strengths of materials are as follows (unless otherwise noted):
  red on C—Stud Trapeze = 33ksi (228 MPa), Tube Steel support posts = 45ksi (310 MPa),
  TrusSteel Chords = 55ksi (379 MPa).
  - Values shown are for the sprinkler pipe hanger only. Truss must be properly loaded for sprinkler pipe load. Refer to TrusSteel Technical Bulletin TB00.09.01, "Sprinkler Pipes — Truss Loading & Connections".
  - 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.
  - Hanger loads were determined per NFPA13 "Standard For The Installation Of Sprinkler Systems" and assume schedule 40 steel pipe.
  - 6. Pipe hanger spacing shall not 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.
  - 7. Nut shall be grade A, HEX conforming to ASTM A563 and Washer shall conform to ASTM F436.
  - 8. Cold—Formed Steel Calculations are per the 2010 supplement to the AISI 2007 "North American Specifications for the Design of Cold—Formed Steel Structural Members" (\$100-07/\$2-10).

## TrusSteel®

 $\angle$ (2) #10SDS at each side of truss chord

at each end of trapeze. (TYP)

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Florida: 1950 Marley Drive / Haines City, FL 33844 / (800) 755-6001 Missouri: 13389 Lakefront Drive / Earth City, MO 63045 / (800) 326-4102 C-Stud Sprinkler Trapeze at Top Chord for 2" (51mm) Max. Diameter Pipe

Sprinkler pipe support

attached to rod.

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.

Standard Detall:

TS049E

Date:

07/16/12

TrusSteel Detail Category:

Top Chord Sprinkler Hanger