

C—stud trapeze member. See hanger parts table for size.—
Each end shall extend 1/4" (6mm) min. beyond truss chord. Trapeze must rest directly on bottom truss chord.

See hanger loading table for spacing.

3/8" (10 mm) dia. ASTM A307threaded rod with washer and nut positioned through center of flange.

362S162—33 Web stiffener at applied—load. Length to match trapeze depth.

(4) #10 SDS at web stiffener. Space as shown. Maintain 5/8" (16mm) minimum distance from ends and edges of stiffener.

Sprinkler pipe support attached to rod.

(2) #10 SDS typical each end of trapeze.

48" (1219mm) O.C. maximum.

Truss bottom chords at

-(2) #10 SDS each side of truss chord typical each end of trapeze.

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

Hanger Loading Table 2 in. (51mm) Maximum Diameter Pipe		
Sprinkler Pipe Diameter in. (mm)	Maximum Allowable Hanger Load lbs. (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)

 * Allowable hanger loads based on maximum hanger spacing. (see note 8)

General Notes:

- 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.
- 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 2" (51mm) in diameter.
- 7. Pipe weight determined using schedule 40 steel pipe.
- 8. 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.
- 9. Vertical truss web may be used as trapeze support post provided it is designed to carry additional sprinkler loads per proper truss loading procedures.



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C-Stud Sprinkler Trapeze at Bottom Chord for 2" (51mm) Max. Diameter Pipe

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 Detail:

TS049C

Date:

06/04/07

TrusSteel Detail Category:

Bottom Chord Sprinkler Hanger