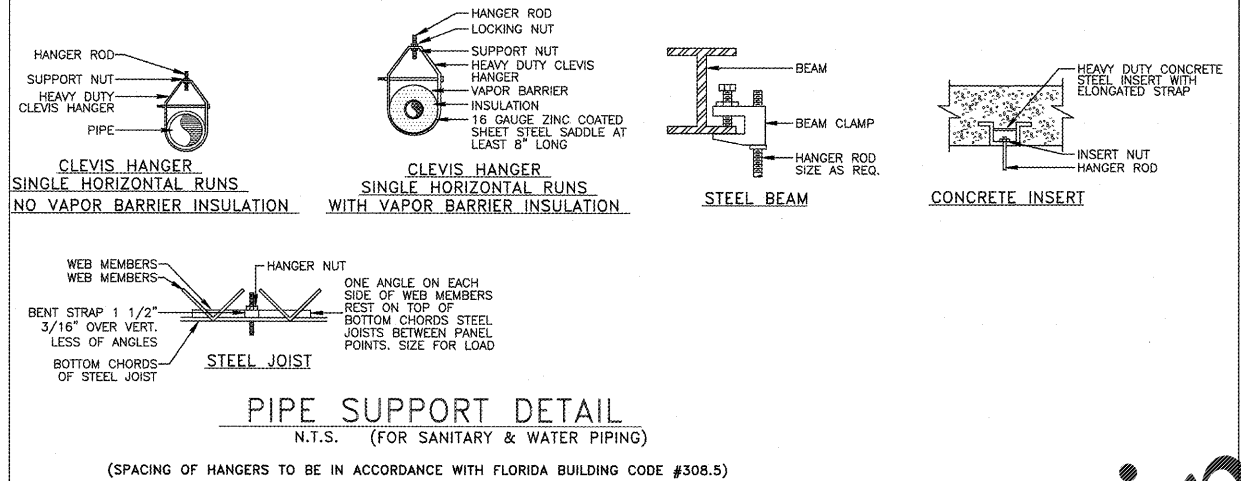


CONDENSATE DRAIN DETAIL - ALL AHU'S
N.T.S.



PIPE SUPPORT DETAIL
N.T.S. (FOR SANITARY & WATER PIPING)
(SPACING OF HANGERS TO BE IN ACCORDANCE WITH FLORIDA BUILDING CODE #308.5)

UL Classified
1 or 2 Hour Fire Rated Through Penetration Firestop for Single Metallic Pipe through Gypsum Walls using TREMstop IA.

TREMCO
3735 Green Rd.
Beachwood, OH, 44122

WL 1113 F-Rating = 1 and 2 Hr.
T-Rating = 0 Hr.
Drawing not to scale

- Pre-Rated Gypsum Wallboard/Stud Wall Assembly
- Metallic Pipe - A) Steel Pipe - 4" diam. (or smaller) Sch. 40 (or heavier) steel pipe.
B) Iron Pipe - 4" diam. (or smaller) cast or ductile iron pipe.
C) Conduit - 4" diam. (or smaller) EMT or rigid steel conduit.
D) Copper Tubing - 4" diam. (or smaller) Type L (or heavier) copper tubing.
E) Copper Pipe - 4" diam. (or smaller) Regular (or heavier) copper pipe.
The annular space shall be min. 1/4" to max. 5/8" within the firestop system.
- TREMstop IA - Min. 1/2" thickness of sealant applied within opening. Additional sealant to be installed such that a min. 1/4" crown is formed around the penetrating item.

UL Classified
2 Hour Fire Rated Through Penetration Firestop for Multiple Metal Pipe through Concrete Floors or Walls using FYRE-SHIELD.

TREMCO
3735 Green Rd.
Beachwood, OH, 44122

CAJ 1047 F-Rating = 2 Hr.
T-Rating = 0 Hr.
Drawing not to scale

- Pre-Rated Concrete Floors or Block Walls = Min. 4-1/2" thickness
Max. Area of Opening = 288 sq. in., with a Max. Dimension of 24".
- Metallic Pipe: A) Steel Pipe - 8" diam. (or smaller) Sch. 40 (or heavier) steel pipe.
B) Conduit - 4" diam. (or smaller) EMT or 6" diam. (or smaller) steel conduit.
C) Iron Pipe - 8" diam. (or smaller) cast or ductile iron pipe.
D) Copper Tubing - 4" diam. (or smaller) Type L (or heavier) copper tubing.
E) Copper Pipe - 4" diam. (or smaller) Regular (or heavier) copper pipe.
NOTE: The maximum number of pipes within opening is 3. The annular space between pipes shall be min. 1-1/2" and a min. 1/2" between pipes and edge of opening.
- Forming Material - (Not Shown, Optional) Nota. 1" thick polyurethane backer rod firmly packed into the opening as a permanent form.
- FYRE-SHIELD - Min. 1/2" thickness mastic applied within annulus, flush with top surface of floor or with both surfaces of the wall assembly.

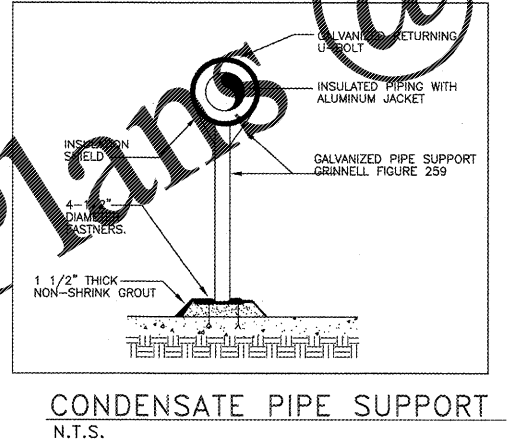
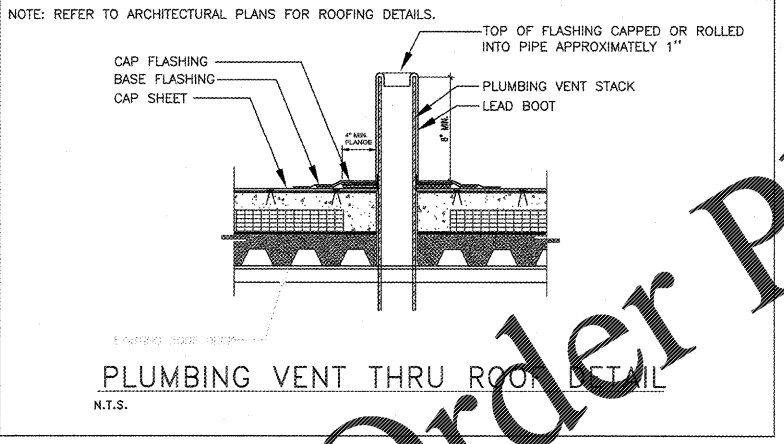
UL Classified
2 Hour Fire Rated Through Penetration Firestop for Plastic Pipe through Concrete Floors or Walls using TREMstop WS and TREMstop MCR.

TREMCO
3735 Green Rd.
Beachwood, OH, 44122

CAJ 2069 F-Rating = 2 Hour
T-Rating = 2 Hour
Drawing not to scale

- Pre-Rated Concrete Floors or Block Walls = Min. 4-1/2" thickness
- Plastic Pipe - 10" diam. (or smaller) Sch. 40 PVC pipe or use in closed or open piping systems. A max. annular space of 1/8" is required.
- TREMstop WS - Intumescent wrap applied continuously around outer circumference of the pipe in a stack and in the gaps.
- TREMstop MCR - Prefabricated steel collar wrap over the wrap system (Item 3) mechanically fastened to the concrete wall assembly.
- TREMstop WBM or FYRE-SHIELD - Min. 1/4" bead of sealant applied at the interface of the pipe and steel collar, and at the interface of the steel collar and pipe.
- Mortar - Min. 4-1/2" thick of mortar hydraulic cement applied within annulus, flush with both surfaces of floor or wall assembly.

NOTE: In floors, apply below the concrete slab. In walls, apply to each side of assembly.



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REVISIONS	BUILDING DEPARTMENT COMMENTS
02/23/18	

SEA CASTLE
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9600 MIRAMAR BOULEVARD
MIRAMAR, FLORIDA 33025

THE SCHOOL BOARD OF BROWARD COUNTY

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JOB PHASE: SB/C PROJECT: DATE: 12.13.18
SCALE: AS SHOWN
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CHECKED BY: E.H.
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