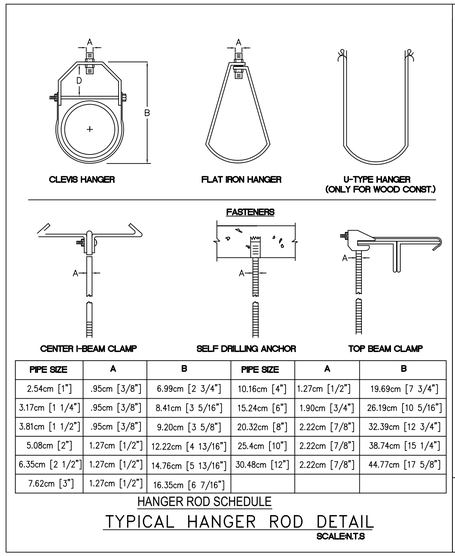


PIPE SIZE	A	B	PIPE SIZE	A	B
2.54cm [1"]	.95cm [3/8"]	6.99cm [2 3/4"]	10.16cm [4"]	1.27cm [1/2"]	19.69cm [7 3/4"]
3.17cm [1 1/4"]	.95cm [3/8"]	8.41cm [3 5/16"]	15.24cm [6"]	1.90cm [3/4"]	26.19cm [10 5/16"]
3.81cm [1 1/2"]	.95cm [3/8"]	9.20cm [3 5/8"]	20.32cm [8"]	2.22cm [7/8"]	32.39cm [12 3/4"]
5.08cm [2"]	1.27cm [1/2"]	12.22cm [4 13/16"]	25.4cm [10"]	2.22cm [7/8"]	38.74cm [15 1/4"]
6.35cm [2 1/2"]	1.27cm [1/2"]	14.76cm [5 13/16"]	30.48cm [12"]	2.22cm [7/8"]	44.77cm [17 5/8"]
7.62cm [3"]	1.27cm [1/2"]	16.35cm [6 7/16"]			

HANGER ROD SCHEDULE

TYPICAL HANGER ROD DETAIL

SCALE:N.T.S

Classified UL System

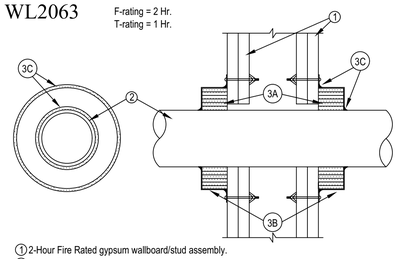
WL2063

2 Hour Fire Rated Through Penetration Firestop for Plastic Pipe through Gypsum Walls using intumescent devices

F-rating = 2 Hr.
T-rating = 1 Hr.

TREMCO
3735 Green Rd.
Beachwood, OH, 44122

Drawing not to scale



1. 2-Hour Fire Rated gypsum wallboard/stud assembly.
2. Plastic Pipe - 4" dia. (or smaller) sch. 40 PVC pipe for use in closed or vented piping systems, with a nom. annular space of 1/8".
3. A) TREMstop WS - wrap strips, tightly wrapped 6 times around pipe.
   B) TREMstop MCR - steel restricting collar.
   C) FYRE-SIL - Min. 1/4" thick sealant applied to wall/collar and collar/pipe interfaces.

Project: _____
Location: _____
Installer: _____
Signature: _____

The products used in the above assembly have been tested in accordance with the following:
•ASTM E814 (UL1479) Standard Test Method for Through Penetration Firestopping.

Date: 2/26/94 | Drawing: TR-W2063
Approved by: C. Tuzzeo

The above described assembly and products have been tested and are based on both past and anticipated performance criteria. Tremco shall not be liable for any damages, direct or consequential, resulting from use of this material or design. Tremco shall only be responsible for replacing material found to be defective.

Classified UL System

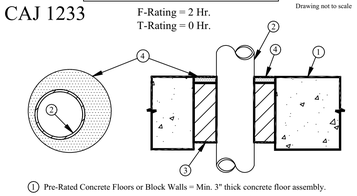
CAJ 1233

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

F-Rating = 2 Hr.
T-Rating = 0 Hr.

TREMCO
3735 Green Rd.
Beachwood, OH, 44122

Drawing not to scale



1. Pre-Rated Concrete Floors or Block Walls = Min. 3" thick concrete floor assembly. Min. 3-1/2" thick conrete wall assembly.
2. Metallic Pipe: A) Steel Pipe- 8" diam. (or smaller) Sch. 40 (or heavier) steel pipe.
   B) Iron Pipe- 8" diam. (or smaller) cast or ductile iron pipe.
   C) Conduit - 4" diam. (or smaller) EMT or steel conduit.
   D) Copper Tubing - 4" diam. (or smaller) Type L (or heavier) copper tubing.
   E) Copper Pipe- 4" diam. (or smaller) Regular (or heaveir) copper pipe.
   The annular space be min. 1/2" to max. 7/8".
3. Packing Material - Min. 2-1/2" thickness of mineral wool (min. 4.0 pcf) insulation, firmly packed into opening as a permanent form.
4. FYRE-SHIELD- Min. 1/2" thickness of sealant applied within annulus, flush with top surface of floor or both surfaces of wall assembly.

Project: _____
Location: _____
Installer: _____
Signature: _____

The Tremco products used above have been tested in accordance with the following:
• ASTM E814 (UL1479) Standard Test Method for Through Penetration Firestopping.

Date: 5/11/98 | Drawing: TR-1233
Approved by: M. Starr

The above described assembly has been tested and is based on both past and anticipated performance criteria. Tremco shall not be liable for any damages, direct or consequential, resulting from use of this material or design. Tremco shall only be responsible for replacing material found to be defective.

Classified UL System

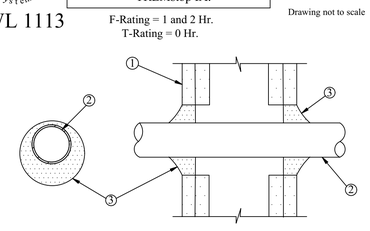
WL 1113

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

F-Rating = 1 and 2 Hr.
T-Rating = 0 Hr.

TREMCO
3735 Green Rd.
Beachwood, OH, 44122

Drawing not to scale



1. Pre-Rated Gypsum Wallboard/Stud Wall Assembly
2. 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.
3. 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.

Project: _____
Location: _____
Installer: _____
Signature: _____

The Tremco products used above have been tested in accordance with the following:
• ASTM E814 (UL1479) Standard Test Method for Through Penetration Firestopping.

Date: 6/30/97 | Drawing: TW-1113
Approved by: J. Pitcole

The above described assembly has been tested and is based on both past and anticipated performance criteria. Tremco shall not be liable for any damages, direct or consequential, resulting from use of this material or design. Tremco shall only be responsible for replacing material found to be defective.

SPACING OF PIPE HANGERS

STEEL PIPE

SPANS SHOWN AGREE WITH VALUES SHOWN IN MSS SP-69, ANSI B31.1, AND ASME SUBSECTION NF

NOMINAL PIPE SIZE		1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2	4	5	6	8	10	12	14	16	18	20	24	30
MAXIMUM SPAN (FEET)	WATER SERVICE	7	7	7	7	9	10	11	12	13	14	16	17	19	20	23	25	27	28	30	32	33
	STEAM GAS AIR SERVICE	8	9	9	9	12	13	14	15	16	17	19	21	24	26	30	32	35	37	39	42	44
HANGER ROD	RECOMMENDED DIAMETER	3/8						1/2			5/8		3/4		1					1 1/4		1 1/2
	MAX RATED LOAD	610						1130			1810		2710		4960					8000		11630

HANGER ROD DIAMETERS MAY BE SELECTED BY PIPE SIZE ONLY AFTER A CHECK THAT THE SUPPORTED LOAD DOES NOT EXCEED THE MAX RATED LOAD OF THAT ROD DIAMETER, AND THAT A PARTICULAR ROD DIAMETER IS NOT REQUIRED BY THE COMPONENT TO WHICH THE ROD IS ATTACHED.

COPPER TUBING

TUBING SIZE	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2	4	5	6	8	10	12
SPAN (FEET)	5	5	6	7	8	8	9	10	11	12	13	14	16	18	19

PVC PLASTIC PIPE (MAX. 100° F)

PIPE SIZE	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2	4	6
SPAN (FEET)	4	4	4	4	5	5	5	5	5	6	6

FIRE PENETRATION DETAILS– PLUMBING

SCALE:N.T.S

APPROVED FOR PERMIT
THE CITY OF MIAMI FLORIDA
City of Miami
BUILDING DEPARTMENT
Approval of this plan is for permitting purposes only, and does not imply authority to violate, cancel, alter or set aside any of the provisions of the currently adopted technical codes, ordinances, laws or regulations, nor does issuance of a permit prevent the Building Official from requiring correction of errors in either the plans or construction, or any deficiencies overlooked in the review.
ARCHITECT OF RECORD
BD21121200001
01/13/22
REVIEWED FOR CODE COMPLIANCE

ZORINA MONTIEL
PH. 786.546.3080
JOSE RAMOS AR 11115
PH. 305.506.7388

STATE OF FLORIDA
JOSE RAMOS
AR11115
REGISTERED ARCHITECT

SEAL:

Jose Ramos
Digitally signed by Jose Ramos
Date: 2021.08.27 18:00:54 -04'00'

PROJECT:
QUANTUM ON THE BAY
UNIT 212
TENANT SPACE INTERIOR RENOV.
1900 NORTHBAYSHORE DRIVE, UNIT 212
MIAMI, FL 33132

DATE	07/23/21

DRAWING TITLE:
PLUMBING DETAILS

DRAWN BY:	CHECKED BY:
ZM	JR

SCALE: AS NOTED

PROJECT NUMBER
21189

SHEET
P-501