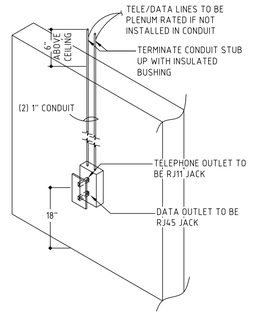


1. OWNER TO SELECT RJ STYLE JACKS, NUMBER OF JACKS PER BOX
2. PROVIDE 4" SQUARE BOXES.

DETAIL NO. 3	DATA/TELEPHONE OUTLET	NOT TO SCALE

Classified UL System

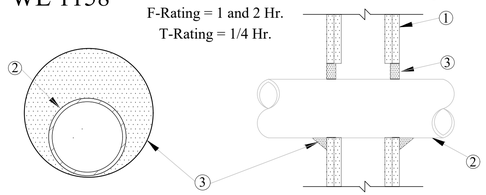
WL 1158

1 and 2 Hour Fire Rated Through Penetration Firestop for Single Metal Pipe through Gypsum Wall Assemblies using TREMstop IA.

TREMCO
3735 Green Rd.
Beachwood, OH, 44122

Drawing not to scale

F-Rating = 1 and 2 Hr.
T-Rating = 1/4 Hr.



1. Pre-Rated Gypsum Wallboard/Stud Wall Assembly.
2. Metallic Pipe: A) Steel Pipe - 12" diam. (or smaller) Sch. 10 (or heavier) steel pipe.
   B) Iron Pipe - 12" diam. (or smaller) cast or ductile iron pipe.
   C) Cooper Tubing - 4" diam. (or smaller) Type L (or heavier) cooper tubing.
   D) Copper Pipe - 4" diam. (or smaller) Regular (or heavier) copper pipe.
   E) Conduit - 4" diam. (or smaller) EMT or 6" diam. (or smaller) steel conduit.
   The annular space shall be min. 0" to max. 1" within the firestop system.
3. TREMstop IA - Min. 1/2" thickness of sealant applied within opening.
   Min. 3/8" cant bead of sealant to be applied at areas of point contact.

DETAIL NO. 2	FIRE SAFE PENETRATION DETAIL (1 AND 2 HR.)	NOT TO SCALE

Classified UL System

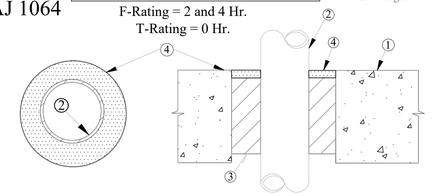
CAJ 1064

2 and 4 Hour Fire Rated Through Penetration Firestop for Single Metal Pipe through Concrete Floors or Walls using FYRE-SIL.

TREMCO
3735 Green Rd.
Beachwood, OH, 44122

Drawing not to scale

F-Rating = 2 and 4 Hr.
T-Rating = 0 Hr.



1. Pre-Rated Concrete Floors or Block Walls: See Table below for min. thickness.
2. Metallic Pipe: A) Steel Pipe - 4" diam. (or smaller) Sch. 10 (or heavier) steel pipe.
   B) Iron Pipe - 4" 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 heavier) copper pipe.
3. Packing Material - See Table below for the mineral wool insulation requirements.
4. FYRE-SIL - Min. 1/2" thickness of sealant applied within annulus, flush with top of floor surface or with both sides of the wall assembly.

Min. Thickness of Concrete, in	Annular Space Min. Packing Material Range, in.	Thickness, in.	Min. Packing Material Density, pcf	F-Rating Hr.
4-1/2	1/2 to 2-7/8	3-1/2	6.0	2
5-1/2	0 to 1-7/8	5	4.0	4

DETAIL NO. 1	FIRE SAFE PENETRATION DETAIL (2 AND 4 HR.)	NOT TO SCALE

FIRE SAFETY FLORIDA STATUTES: TO THE BEST OF THE ENGINEER'S KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AND THE APPLICABLE FIRE-SAFETY STANDARDS AS DETERMINED BY THE LOCAL AUTHORITY IN ACCORDANCE WITH F.B.C. 2023 SECTION 110.8.4.4 AND CHAPTER 633, FLORIDA STATUTES.

PRIOR TO SUBMITTING THE BID, THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND INFORM THE ARCHITECT AND THE ENGINEER OF ANY DISCREPANCY BETWEEN THESE DOCUMENTS AND THE EXISTING CONDITIONS AND SHALL INCLUDE IN THE BID TO CORRECT THE SAME AS DIRECTED. THE ENGINEER AND THE ARCHITECT, ARE NOT RESPONSIBLE FOR ANY ADDITIONAL COSTS RESULTING FROM VERIFIABLE EXISTING CONDITIONS DISCOVERED AFTER CONTRACT HAS BEEN AWARDED. NO CHANGES SHALL BE MADE TO THESE PLANS WITHOUT PRIOR APPROVAL FROM THE ENGINEER OF RECORD. ALL CHANGES SHALL BE SUBMITTED FOR REVIEW PRIOR TO INSTALLATION. NOT FOR BID UNTIL PERMIT HAS BEEN ISSUED.

This item has been digitally signed and sealed on the date adjacent to the seal.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

PERMIT SET: 06/17/26

STEPHEN F. ROLLIN LICENSE No. 36428 STATE OF FLORIDA PROFESSIONAL ENGINEER

Digitally signed by Stephen Rollin
Reason: I agree to the terms defined by the placement of my signature in this document
Location:
Date: 2026-06-17 14:30-04:00

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Qualifier: Angel Lopez
State of Florida: AR 103182
Sign & Seal:
State of Florida:

AGMU HVAC Classroom Renovation
15201 NW 79th Ct,
Miami Lakes, FL 33016
CLIENT

DATE 06/17/2026

Revision

PROJECT # 26009

ELECTRICAL DETAILS

E5.1