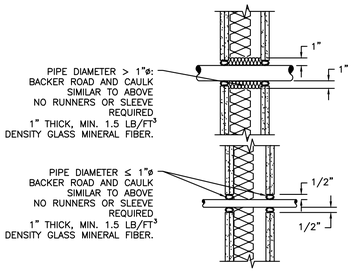
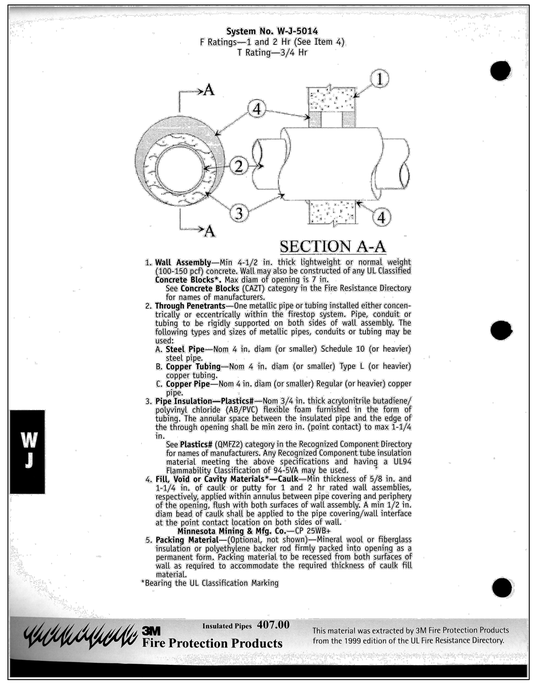


PIPE/CONDUIT PENETRATION DRYWALL CONSTRUCTION
TO BE APPLIED TO WALLS WITH STC ≥ 49

SEE ARCHITECTURAL DRAWINGS FOR ACOUSTICALLY IMPORTANT WALLS (WALL TYPES). SEAL PENETRATIONS IN THOSE WALLS PER THESE DETAILS

1 / P6.02 ACCOUSTICAL DUCT PENETRATION
SCALE: DETAIL



System No. W-J-5014
F Ratings—1 and 2 Hr (See Item 4)
T Rating—3/4 Hr

SECTION A-A

1. **Wall Assembly**—Min 4-1/2 in. thick lightweight or normal weight (100-150 pcf) concrete. Wall may also be constructed of any UL Classified **Concrete Blocks***. Max diam of opening is 7 in.
   See **Concrete Blocks** (CAZT) category in the Fire Resistance Directory for names of manufacturers.
2. **Through Penetrants**—One metallic pipe or tubing installed either concentrically or eccentrically within the firestop system. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
   A. **Steel Pipe**—Nom 4 in. diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. **Copper Tubing**—Nom 4 in. diam (or smaller) Type L (or heavier) copper tubing.
   C. **Copper Pipe**—Nom 4 in. diam (or smaller) Regular (or heavier) copper pipe.
3. **Pipe Insulation—Plastics#**—Nom 3/4 in. thick acrylonitrile butadiene/polyvinyl chloride (AB/PVC) flexible foam furnished in the form of tubing. The annular space between the insulated pipe and the edge of the through opening shall be min zero in. (point contact) to max 1-1/4 in.
   See **Plastics#** (QMFZ2) category in the Recognized Component Directory for names of manufacturers. Any Recognized Component tube insulation material meeting the above specifications and having a UL94 Flammability Classification of 94-5VA may be used.
4. **Fill, Void or Cavity Materials*—Caulk**—Min thickness of 5/8 in. and 1-1/4 in. of caulk or putty for 1 and 2 hr rated wall assemblies, respectively, applied within annulus between pipe covering and periphery of the opening, flush with both surfaces of wall assembly. A min 1/2 in. diam bead of caulk shall be applied to the pipe covering/wall interface at the point contact location on both sides of wall.
   Minnesota Mining & Mfg. Co.—CP 25WB+
5. **Packing Material**—(Optional, not shown)—Mineral wool or fiberglass insulation or polyethylene backer rod firmly packed into opening as a permanent form. Packing material to be recessed from both surfaces of wall as required to accommodate the required thickness of caulk fill material.

*Bearing the UL Classification Marking

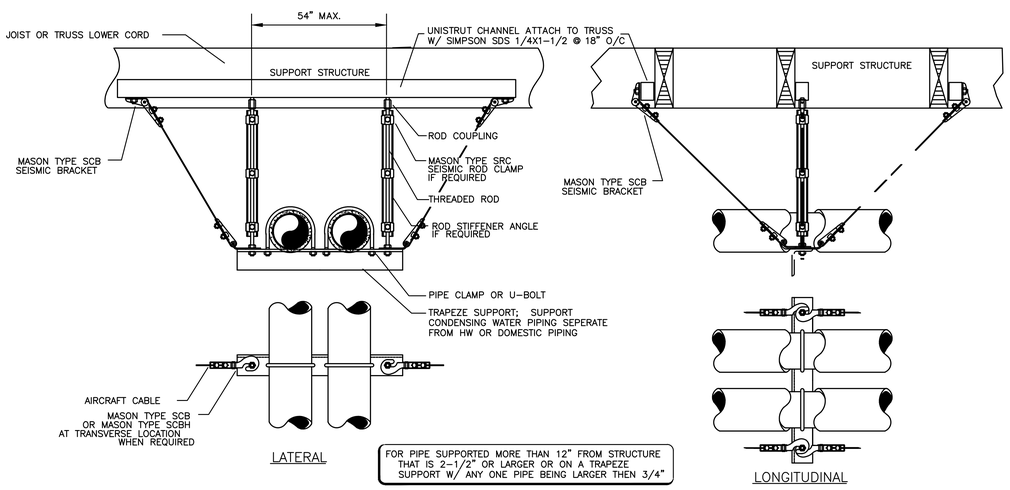
W J

3M Fire Protection Products

Insulated Pipes 407.00

This material was extracted by 3M Fire Protection Products from the 1999 edition of the UL Fire Resistance Directory.

2 / P6.02 PIPE PENETRATION – RATED WALL
SCALE: DETAIL



FOR PIPE SUPPORTED MORE THAN 12" FROM STRUCTURE THAT IS 2-1/2" OR LARGER OR ON A TRAPEZE SUPPORT W/ ANY ONE PIPE BEING LARGER THEN 3/4"

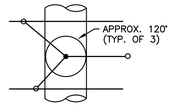
NOTE: MATERIALS BASED ON MASON INDUSTRIES. SIZE MATERIALS BASED ON APPLICATION & MANUFACTURER REQUIREMENT.

3 / P6.02 SEISMIC PIPE SUPPORT
SCALE: DETAIL

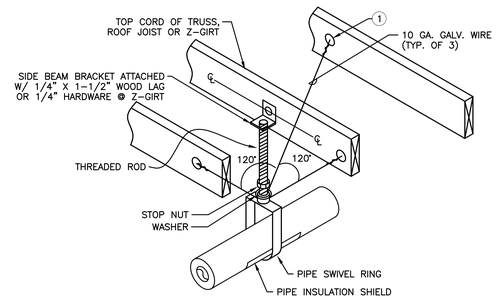
2/P6.02 NOTES

① – 1/4" GALV. THREADED EYE BOLT @ CENTER OF WOOD MEMBER (TYP. OF 3). FOR Z-GIRT USE MACHINE THREAD EYE BOLT W/ JAMB NUT & 1/4" WASHER @ EACH SIDE OF GIRT

* – MAXIMUM HANGER SPACING SHALL BE AS FOLLOWS:
1-1/4" AND SMALLER PIPE 7' SPAN
1-1/2" PIPE 9' SPAN



TOP VIEW



4 / P6.02 NON-SEISMIC PIPE SUPPORT
SCALE: DETAIL

City Of Bend Approval Stamp:

#	Date	Description

Revision Schedule

PERMIT SET

PILOT BUTTE MIDDLE SCHOOL - BLDGS E&F
1501 NE Neff Road,
Bend OR 97701

BLRB architects

Drawing Title:

PLUMBING DETAILS

Date : 02.09.2018	Drawn By : INITIALS
Revised Date :	Project No. 17.34B

Stamp

REGISTERED PROFESSIONAL ENGINEER
17587
JULY 25, 1995
SCOTT W. MILLER
EXPIRES: 31DEC18

Sheet No.

P6.02

BLRB ARCHITECTS, P.S.