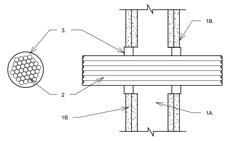
1. Wall Assembly — The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300, U400 or V400 Series Wall and Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 3-1/2 in. (89 mm) wide and spaced max 24 in. (610 mm) OC.
B. Gypsum Board * — The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300, U400 or V400 Series Design in the UL Fire Resistance Directory. Diam of circular cutout in gypsum board layers in each side of wall to be 1/2 in. (13 mm) larger than diam of tight cable bundle (Item 2 or 2A). Max diam of opening is 4-1/2 in. (114 mm).
The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.

2. Cables — Max 4 in. (102 mm) diam tight bundle of cables to be installed either concentrically or eccentricity in circular cutouts in gypsum board opening. Cables to be rigidly supported on both sides of wall assembly. The annular space within the firestop system shall be a min 0 in. (point contact) to a max 1/2 in. (13 mm). Any combination of the following types and sizes of cables may be used.
A. Max 150 pair No. 24 AWG (or smaller) copper conductor cable with polyvinyl chloride (PVC) insulation and jacket.
B. Max 1/C - 350 kcmil (or smaller) copper conductor cable with cross-linked polyethylene (XLPE) jacket.
C. Max 2/0 AWG (or smaller) copper conductor cable with a XLPE insulation and PVC jacket.
D. Max 3/C (with ground) No. 8 AWG nonmetallic sheathed (Romex) cable (or smaller) with copper conductor, polyvinyl chloride (PVC) insulation and jacket materials.
E. Max 3/C (with ground) No. 2/0 AWG (or smaller) aluminum or copper conductor service entrance cable with PVC insulation and jacket materials.
F. Max 4 pair No. 18 AWG (or smaller) copper conductor thermostat cable with PVC insulation and jacket materials.
G. Max RG/U Type 11 (or smaller) coaxial cable with fluorinated ethylene insulation and jacket materials.
H. Max 62.5/125 micron fiber optic cable with PVC insulation and jacket materials.
2A. Through penetrating Product* — As an alternate to the Item 2, a max 4 in. (102 mm) diam tight bundle of max 4 /C (with ground) - No. 2/0 AWG (or smaller) aluminum or steel jacketed Armored Cable+ or Metal-Clad Cable+ with aluminum or copper conductors may be used. The annular space between the cable bundle and the periphery of the opening shall be a min of 0 in. (point contact) to a max of 1 in. (25 mm). Through penetrating products may also be used in conjunction with the cables specified in Item 2. The through penetrating products are to be spaced min 1/2 in. (13 mm) from the cable bundle in Item 2. Cables to be rigidly supported on both sides of wall assembly.

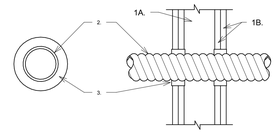


Through Penetration Firestop System - UL W-L-3076

1. **Wall Assembly** — The 1 or 2 hr fire rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
A. **Studs** — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC with nom 2 by 4 in. lumber end plates and cross braces. Steel studs to be min 3-5/8 in. wide by 1-3/8 in. deep channels spaced max 24 in. OC.
B. **Gypsum Board*** — Nom 5/8 in. thick, 4 ft. wide with square or tapered edges. The gypsum wallboard type, number of layers and sheet orientation shall be as specified in the individual Wall and Partition Design. Max diam of openings cut in gypsum wallboard is 2 in.
C. **Fasteners** — When wood stud framing is employed, gypsum wallboard attached to studs with cement coated nails as specified in the individual Wall or Partition Design. When steel channel stud framing is employed, gypsum wallboard attached to studs with Type S self-drilling, self-tapping bugle-head steel screws as specified in the individual Wall or Partition Design.
Diam of circular through opening cut through gypsum wallboard on each side of wall assembly to be min 1/4 in. to max 11/16 in. larger than diam of through penetrating product (Item 2) installed in through opening. Side edge of circular opening to be min 3 in. from nearest stud in wall cavity.

2. **Through Penetrating Product*** — Max four copper conductor No. 2 AWG (or smaller) aluminum or steel Armored Cable+ or Metal-Clad Cable+. Max one armored cable or metal clad cable to be installed near center of circular opening in gypsum wallboard. Through penetrating product to be rigidly supported on both sides of wall assembly. When installed in 1 hr fire rated wall assembly, T Rating is 0 hr. When installed in 2 hr fire rated wall assembly, T Rating is 3/4 hr when max No. 2 AWG cable is used and 2 hr when max 12 AWG cable is used.
CONDUCTORES MONTERREY S A DE C V PLANTA SAN LUIS

3. **Fill, Void or Cavity Material*** — Caulk — Caulk fill material forced into annular space around entire circumference of through penetrating product to completely fill opening in gypsum wallboard on each side of the wall assembly. A min 5/8 in. thickness of caulk is required for the 1 hr F Rating. A min 1-1/4 in. thickness of caulk is required for the 2 hr F Rating.



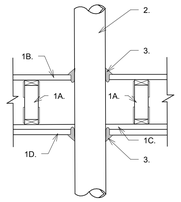
Through Penetration Firestop System - UL W-L-3077

1. **Floor-Ceiling Assembly** — The 1 hr fire rated wood joist, wood truss or combination wood and steel truss Floor-Ceiling assembly shall be constructed of the materials and in the manner described in the individual L500-Series Design in the UL Fire Resistance Directory, as summarized below:
A. **Joists or Trusses** — Nom 2 by 10 in. (51 by 254 mm) lumber joists, min 12 in. (305 mm) deep parallel chord trusses fabricated from nom 2 by 4 in. (51 by 102 mm) lumber in conjunction with galv steel truss plates or Structural Wood Members* with bridging as required.
B. Flooring — Nom 3/4 in. (19 mm) thick plywood flooring with or without Floor Topping Mixture*. Diam of circular cutouts is 1/4 to 1/2 in. (6 to 13 mm) larger than outside diam of the pipe.
C. **Furring Channels** — Rigid or resilient galv steel furring channels installed perpendicular to bottom chord of trusses.
D. **Gypsum Board*** — Nom 4 ft (1.2 m) wide by 5/8 in. (16 mm) thick, screw-attached to furring channels. Diam of circular cutouts is 1/4 to 1/2 in. (6 to 13 mm) larger than outside diam of the pipe.

1.1 **Chase Wall** — (Optional, now shown) — The through penetrants (Item No. 2) may be routed through a fire-rated single, double or staggered wood stud/gypsum wallboard chase wall constructed of the materials and in the manner specified in the individual U300 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
A. **Studs** — Nom 2 by 6 in. (51 by 152 mm) or double nom 2 by 4 in. (51 by 102 mm) lumber studs.
B. **Sole Plate** — Nom 2 by 6 in. (51 by 152 mm) or parallel 2 by 4 in. (51 by 102 mm) lumber plates, tightly butted. Diam of circular cutouts is 1/4 to 1/2 in. (6 to 13 mm) larger than outside diam of the pipe.
C. **Top Plate** — The double top plate shall consist of two nom 2 by 6 in. (51 by 152 mm) or two sets of parallel 2 by 4 in. (51 by 102 mm) lumber plates, tightly butted. Diam of circular cutouts is 1/4 to 1/2 in. (6 to 13 mm) larger than outside diam of the pipe.
D. **Gypsum Board*** — Thickness, type, number of layers and fasteners shall be as specified in individual Wall and Partition Design.

2. **Through-Penetrant** — Nom 10 in. (254 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe or cast iron pipe, nom 4 in. (102 mm) diam (or smaller) steel conduit or steel EMT or nom 3 in. (76 mm) diam (or smaller) Type L (or heavier) copper tubing. Pipe to be installed approx midway between joists or trusses and centered in circular cutouts. Annular space between penetrant and periphery of opening shall be min 1/8 in. (3 mm) to max 1/4 in. (6 mm). Pipe to be rigidly supported on both sides of Floor-Ceiling assembly.
T Rating is 0 hr for nom 4 in. (102 mm) diam (or smaller) penetrants. T Rating is 0 hr for all penetrants greater than nom 4 in. (102 mm) diam.

3. **Fill, Void or Cavity Materials*** — Caulk or Sealant — Min 3/4 in. (19 mm) thickness of fill material applied within the annulus, flush with top surface of floor or sole plate. Min 5/8 in. (16 mm) thickness of fill material applied within the annulus, flush with bottom surface of ceiling or top plate. An additional min 1/4 in. (6 mm) crown of fill material applied to perimeter of penetrant at its egress from the top of flooring and underside of ceiling or from top of sole plate and underside of top plate.



Through Penetration Firestop System - UL F-C-1006

1. **Wall Assembly** — The fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
A. **Studs** — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 2-1/2 in. wide and spaced max 24 in. OC.
B. Gypsum Board* — One layer of nom 5/8 in. thick gypsum wallboard, as specified in the individual Wall and Partition Design. Max diam of opening is 11-3/4 in.

2. **Through Penetrants** — One metallic pipe, conduit or tubing to be 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 10 in. diam (or smaller) Schedule 20 (or heavier) steel pipe. The annular space shall be min 0 in. to max 1 in.
B. **Iron Pipe** — Nom 10 in. diam (or smaller) cast or ductile iron pipe. The annular space shall be min 0 in. to max 1 in.
C. Conduit — Nom 2 in. diam (or smaller) steel electrical metallic tubing or steel conduit. The annular space shall be min 0 in. to max 1 in.
D. **Copper Tubing** — Nom 2 in. diam (or smaller) Type L (or heavier) copper tubing. The annular space shall be min 0 in. to max 1 in.
E. **Copper Pipe** — Nom 2 in. diam (or smaller) Regular (or heavier) copper pipe. The annular space shall be min 0 in. to max 1 in.

3. **Fill, Void or Cavity Material*** — Caulk — Min 1/2 in. thickness of fill material applied within the annulus, flush with both surfaces of wall. At the point contact location between pipe and wall, a min 1/4 in. diam bead of fill material shall be applied at the wall/pipe interface on both surfaces of wall.

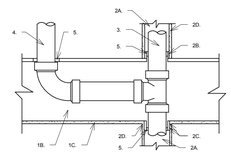
Through Penetration Firestop System - UL W-L-1108

1. **FLOOR ASSEMBLY-** THE 1 HR FIRE RATED WOOD TRUSS OR COMBINATION WOOD AND STEEL TRUSS FLOOR-CEILING ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL L500 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY AS SUMMARIZED BELOW:
A. **FLOORING SYSTEM-** LUMBER OR PLYWOOD SUBFLOOR WITH FINISH FLOOR OF LUMBER, PLYWOOD OR FLOOR TOPPING MIXTURE AS SPECIFIED IN THE INDIVIDUAL FLOOR-CEILING DESIGN. DIAM OF OPENING SHALL BE 1/2 IN. TO 1 IN. LARGER THAN THE OUTSIDE DIAM OF NONMETALLIC PIPE.
B. **JOISTS-** NOM 10 IN. DEEP (OR DEEPER) LUMBER, STEEL OR COMBINATION LUMBER AND STEEL JOISTS, TRUSSES OR STRUCTURAL WOOD MEMBERS WITH BRIDGING AS REQUIRED AND WITH ENDS FIRESTOPPED.
C. **GYPSUM BOARD-** NOM 4 FT. WIDE BY 5/8 IN. THICK, ATTACHED AS DESCRIBED IN THE INDIVIDUAL FLOOR-CEILING PLAN.

2. **CHASE WALL-** THE THROUGH PENETRANT(ITEM 3) SHALL BE ROUTED THROUGH A 1 HR FIRE RATED SINGLE, DOUBLE OR STAGGERED WOOD STUDS/GYPSUM BOARD CHASE WALL CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL U300 SERIES WALL AND PARTITION DESIGN IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOW CONSTRUCTION FEATURES:
A. **STUDS-** NOM 2 BY 4 IN. OR 2 BY 6 IN. LUMBER STUDS.
B. **SOLE PLATE-** NOM 2 BY 4 IN. OR 2 BY 6 IN. LUMBER PLATES. DIAM OF OPENING OR LENGTH OF NOTCH-OUT IN SOLE PLATE TO BE 1/2 IN. TO 1 IN. LARGER THAN OUTSIDE DIAM OF PIPE.
C. **TOP PLATE-** THE DOUBLE TOP PLATE SHALL CONSIST OF TWO NOM 2 BY 4 IN. OR 2 BY 6 IN. LUMBER PLATE. DIAM OF OPENING OR LENGTH OF NOTCH-OUT IN TOP PLATE TO BE 1/2 IN. TO 1 IN. LARGER THAN THE OUTSIDE DIAM OF THE PIPE.

3. **THROUGH PENETRANT-** ONE NONMETALLIC PIPE TO BE INSTALLED WITHIN THE FIRESTOP SYSTEM. PIPE TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR-CEILING ASSEMBLY. THE ANNULAR SAPCE BETWEEN PIPE AND PERIPHERY OF OPENING SHALL BE MIN 0 IN. (POINT CONTACT)TO MAX 1/2 IN. THE FOLLOWING TYPES AND SIZES OF NONMETALLIC PIPES MAY BE USED:
A. **PVC PIPE-** NOM 4 IN. DIAM (OR SMALLER) SCHEDULE 40 SOLID CORE OR CELLULAR CORE PVC PIPE FOR USE IN CLOSED (PROCESS OR SUPPLY) OR VENTED (DRAIN, WASTE OR VENT) PIPING SYSTEM.
B. **ACRYLONITRILE BUTADIENE STYRENE (ABS) PIPE-** NOM 3 IN. DIAM (OR SMALLER) SCHEDULE 40 SOLID CORE OR CELLULAR CORE ABS PIPE FOR USE IN CLOSED (PROCESS OR SUPPLY) OR VENTED (DRAIN, WASTE OR VENT) PIPING SYSTEM.

4. **FILL, VOID OR CAVITY MATERIALS- CAULK OR SEALANT-** MIN 3/4 IN. THICKNESS OF FILL MATERIAL APPLIED WITHIN ANNULAR SPACE AROUND PERIMETER OF THROUGH PENETRANT (ITEM 3), FLUSH WITH TOP SURFACE OF FLOOR OR SOLE PLATE AND FLUSH WITH BOTTOM SURFACE OF TOP PLATE. MIN 3/4 IN. THICKNESS OF FILL MATERIAL APPLIED WITHIN ANNULAR SPACE AROUND PERIMETER OF BRANCH PIPING (ITEM 4) FLUSH WITH TOP SURFACE OF FLOOR. MIN 1/2 IN. DIAM BEAD APPLIED AT THE PIPE/FLOOR INTERFACE AND THE PIPE/PLATE INTERFACE.

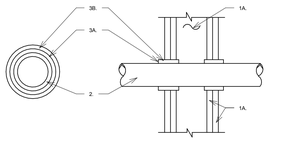


Through Penetration Firestop System - UL F-C-2027

1. **WALL ASSEMBLY-** THE 1 OR 2 HR FIRE RATED GYPSUM BOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300, U400 OR V400 SERIES WALL AND PARTITION DESIGN IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
A. **STUDS-** WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN LUMBER SPACED 16 IN. OC. STEEL STUDS TO BE MIN 3-1/2 IN. WIDE AND SPACED MAX 24 IN. OC.
B. **GYPSUM BOARD-** THE GYPSUM BOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAX DIAM OF OPENING IS 8 IN.
THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS EQUAL TO THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED. THE HOURLY T RATING IS 1 AND 2 HR FOR 1 AND 2 HR RATED ASSEMBLIES, RESPECTIVELY.

2. **THROUGH PENETRANTS-** ONE NONMETALLIC PIPE OR CONDUIT CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE BETWEEN PENETRANT AND PERIPHERY OF OPENING SHALL BE MIN 3/8 IN. TO MAX 5/8 IN. PENETRANT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF NONMETALLIC PIPES OR CONDUITS:
A. **POLYVINYL CHLORIDE (PVC) PIPE-** NOM 4 IN. DIAM (OR SMALLER) SCHEDULE 40 SOLID CORE OR CELLULAR CORE PVC PIPE FOR USE IN CLOSED (PROCESS OR SUPPLY) OR VENTED (DRAIN, WASTE OR VENT) PIPING SYSTEMS.
B. **CHLORINATED POLYVINYL CHLORIDE (CPVC) PIPE-** NOM 4 IN. DIAM (OR SMALLER) SCHEDULE 40 SOLID CORE OR CELLULAR CORE CPVC PIPE FOR USE IN CLOSED (PROCESS OR SUPPLY) OR VENTED (DRAIN, WASTE OR VENT) PIPING SYSTEMS.
C. **RIGID NONMETALLIC CONDUIT-** NOM 4 IN. DIAM (OR SMALLER) SCHEDULE 40 PVC CONDUIT INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NFPA NO. 7)

3. **FIRESTOP SYSTEM-** THE FIRESTOP SYSTEM SHALL CONSIST OF THE FOLLOWING:
A. **FILL, VOID OR CAVITY MATERIALS- WRAP STRIP-** MIN 3/16 IN. THICK INTUMESCENT MATERIAL SUPPLIED IN 2-1/2 IN. WIDE STRIPS. SINGLE LAYER OF PRE-CUT WRAP STRIP TIGHTLY WRAPPED AROUND NONMETALLIC PIPE AND SECURED WITH ADHESIVE CLOSURE TAB. WRAP STRIP TO BE SLID INTO OPENING SUCH THAT THE OUTER EDGE OF WRAP STRIP EXTENDS APPROX 1/2 IN. BEYOND THE SURFACE OF THE WALL.
3M COMPANY 3M FIRE PROTECTION PRODUCTS- TUCK-IN WRAP STRIP WS 200, WS 300, OR WS 400
B. **FILL, VOID OR CAVITY MATERIAL- CAULK OR SEALANT-** MIN 1/4 IN. DIAM BEAD OF SEALANT APPLIED TO GYPSUM BOARD/WRAP STRIP INTERFACE ON BOTH SIDES OF THE WALL.
3M COMPANY 3M FIRE PROTECTION PRODUCTS- IC 15WB+, CP 25WB+ OR FB-3000 WT SEALANT

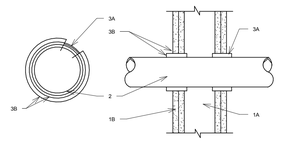


Through Penetration Firestop System - UL W-L-2551

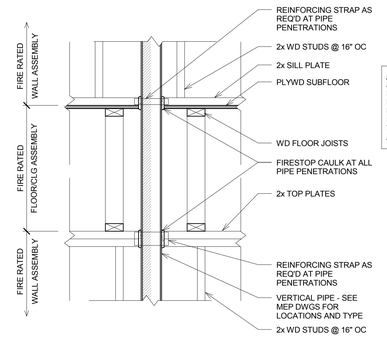
1. **WALL ASSEMBLY-** THE 1 OR 2 HR FIRE RATED GYPSUM BOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300, U400 OR V400 SERIES WALL AND PARTITION DESIGN IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
A. **STUDS-** WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN LUMBER SPACED 16 IN. OC. STEEL STUDS TO BE MIN 3-1/2 IN. WIDE AND SPACED MAX 24 IN. OC.
B. **GYPSUM BOARD-** THE GYPSUM BOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAX DIAM OF OPENING IS 8 IN.
THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS EQUAL TO THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED.

2. **THROUGH PENETRANTS-** ONE NOM 6 IN. NONMETALLIC PIPE OR CONDUIT CENTERED IN THE FIRESTOP SYSTEM. THE ANNULAR SPACE BETWEEN PENETRANT AND PERIPHERY OF OPENING SHALL BE MIN 3/8 IN. TO MAX 5/8 IN. PENETRANT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF NONMETALLIC PIPES OR CONDUITS:
A. **POLYVINYL CHLORIDE (PVC) PIPE-** NOM 6 IN. DIAM (OR SMALLER) SCHEDULE 40 SOLID CORE OR CELLULAR CORE PVC PIPE FOR USE IN CLOSED (PROCESS OR SUPPLY) OR VENTED (DRAIN, WASTE OR VENT) PIPING SYSTEMS.
THE HOURLY T RATING IS 1 HR AND 2 HR FOR 1 HR AND 2 HR FIRE RATED ASSEMBLIES, RESPECTIVELY, WHEN ITEM 2A IS USED.

3. **FIRESTOP SYSTEM-** THE FIRESTOP SYSTEM SHALL CONSIST OF THE FOLLOWING
A. **FILL, VOID OR CAVITY MATERIALS- WRAP STRIP-** NOM 3/16 IN. THICK INTUMESCENT MATERIAL SUPPLIED IN NOM 2-1/2 IN. WIDE STRIPS. TWO LAYERS OF WRAP STRIP TIGHTLY WRAPPED AROUND NONMETALLIC PIPE AND SECURED WITH GLASS FIBER-REINFORCED STRAPPING TAPE. WRAP STRIP TO BE SLID INTO OPENING SUCH THAT THE OUTER EDGE OF WRAP STRIP EXTENDS APPROX 1/2 IN. BEYOND THE SURFACE OF THE WALL.
3M COMPANY 3M FIRE PROTECTION PRODUCTS- FIRE BARRIER TUCK-IN WS ROLL
B. **FILL, VOID OR CAVITY MATERIAL- CAULK OR SEALANT-** MIN 1/4 IN. DIAM BEAD OF SEALANT APPLIED TO GYPSUM BOARD/WRAP STRIP INTERFACE ON BOTH SIDES OF THE WALL.
3M COMPANY 3M FIRE PROTECTION PRODUCTS- IC 15WB+, CP 25WB+ OR FB-3000 WT SEALANT



Through Penetration Firestop System - UL W-L-2553



NOTE:
ALL THROUGH-WALL PENETRATIONS IN FIRE RATED PARTITIONS TO BE PROTECTED BY AN APPROVED PENETRATION FIRESTOP SYSTEM INSTALLED AS TESTED IN ACCORDANCE WITH ASTM E 814 OR UL 1479.

1 Fire Rated Vert Pipe Pentration
1" = 1'-0"

JMAC ARCHITECTS
1273 Washington Pike, Bridgeville, PA 15017
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REGISTERED ARCHITECT COMMONWEALTH OF PENNSYLVANIA JAMES A. MCMULLIN JAMES A. MCMULLIN #RA020910

Hampton

ISSUE:

Issued for Permit
08.05.2016

PROJECT: 16-018

Hampton Inn & Suites

New Stanton, PA 15672

OWNER:

Stanton Hospitality LLC

52 Blueberry Lane,
Grove City, PA 16127

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No.	Issue Date	Project Status

Penetration Details

As indicated

A-806

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