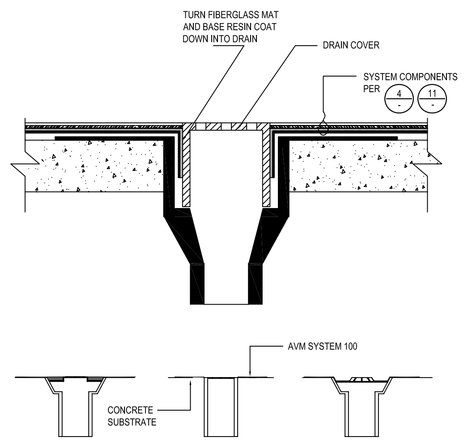
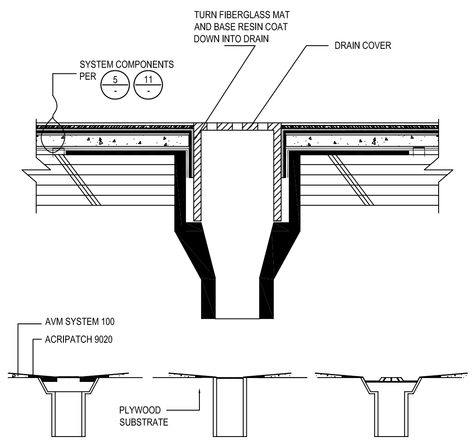


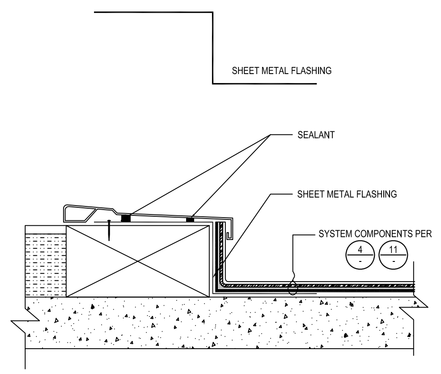
ER-5615 ELASTO FIBERDECK 100

DECK AT DRAIN OVER CONCRETE | 9



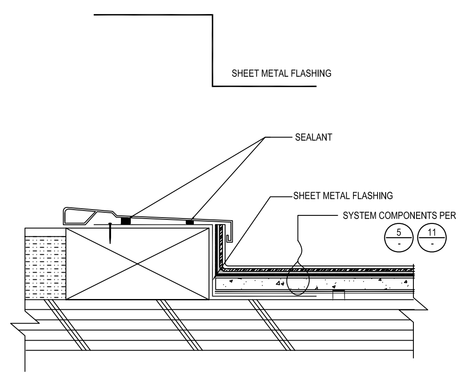
ER-5615 ELASTO FIBERDECK 100

DECK AT DRAIN OVER PLYWOOD | 8



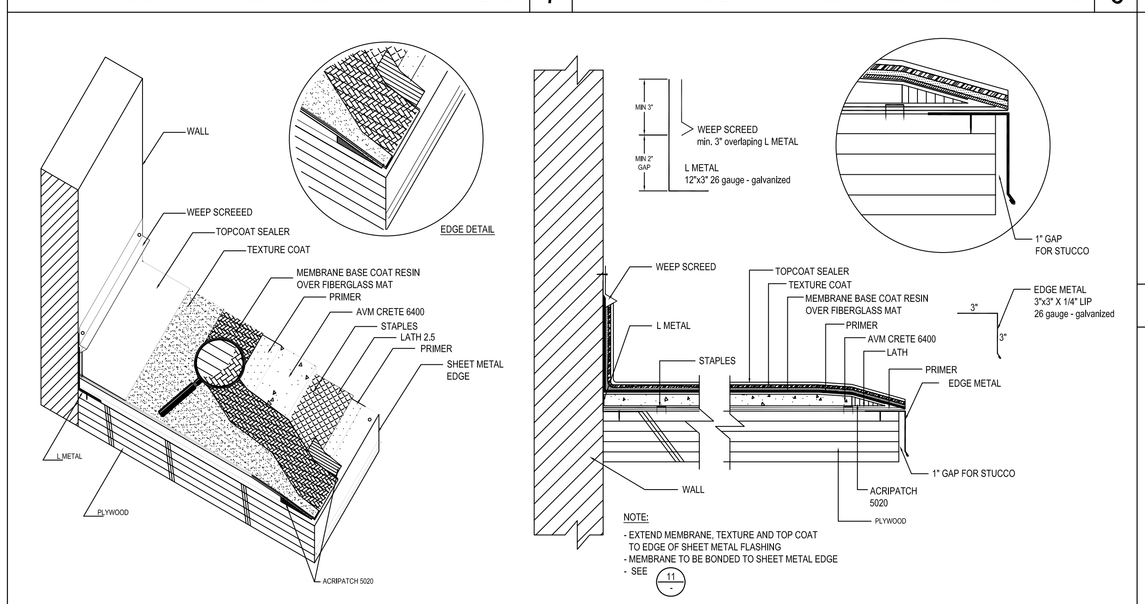
ER-5615 ELASTO FIBERDECK 100

DECK TO TRESHOLD OVER CONCRETE | 7

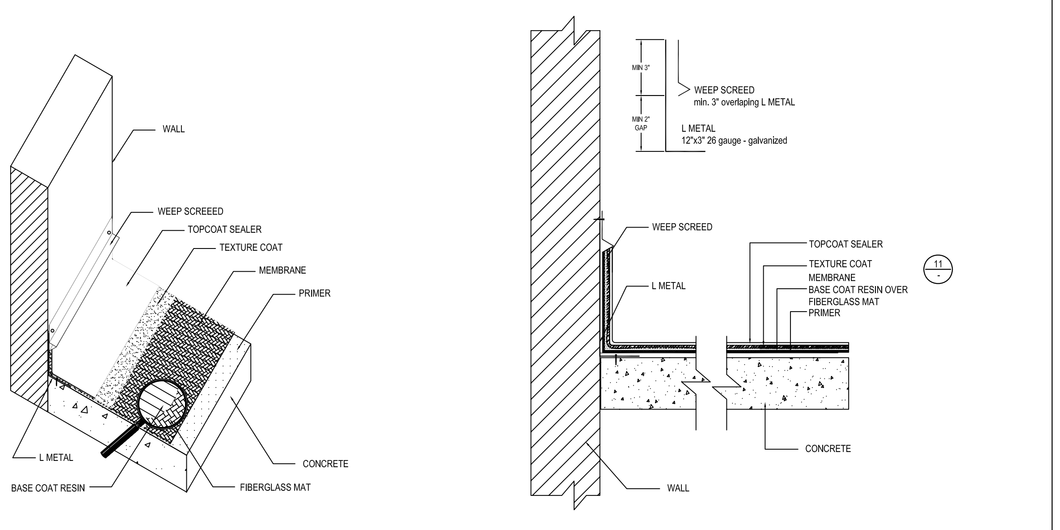


ER-5615 ELASTO FIBERDECK 100

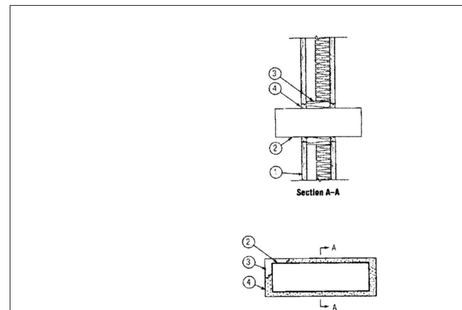
DECK TO TRESHOLD OVER PLYWOOD | 6



AVM SYSTEM 100 ELASTO FIBERDECK OVER PLYWOOD ER-5615 | 5



AVM SYSTEM 100 ELASTO FIBERDECK OVER CONCRETE ER-5615 | 4



F-rating = One hour
T-rating = Zero hour

1. **Wall Assembly:** The fire-rated gypsum wallboard/stud wall assembly shall comply with the code for a one-hour rating 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 nominal 2-by-4-inch lumber spaced 16 inches on center, maximum. Steel studs to be a minimum of 2 1/2 inches wide and a maximum of 24 inches on center.
   b. **Batts and Blankets**—Nominal 1 1/2-inch-thick glass fiber batts with a 2.75 pcf density, friction-fitted to fill interior of stud cavities.
   c. **Wallboard, Gypsum**—One layer of nominal 1/2-inch-thick United States Gypsum Corporation Type C gypsum wallboard, each face of wall. Maximum opening size is 4 inches wide by 12 inches long.
2. **Air Duct:** Nominal 3-inch-by-10-inch prefabricated 24 MSG sheet metal air duct. A 7/16-inch to maximum 1-inch annular space is required within the fire-stop system. Air duct to be rigidly supported on both sides of wall assembly.
3. **Forming Material:** Minimum 2 1/2-inch thickness of THERMAFIBER Safing Insulation firmly packed into opening as a permanent form. Forming material to be recessed from both surfaces of wall to accommodate the required thickness of fill material.
4. **Fill, Void or Cavity Material: Sealant:** Minimum 1/2-inch thickness of FIRECODE Compound fill material applied within the annulus, flush with both surfaces of wall.

AIR DUCT

ELASTO FIBERDECK® 100
ICBO ES ER-5615, L.A. RR#: 25430

Manufactured By:
AVM Industries, LLC
8245 Remmet Ave, Canoga Park CA, 91304
888-414-1041, 818-888-0050

Product Description
The Elasto Fiberdeck® 100 is a traffic bearing, roof and walking deck waterproofing system. The Elasto Fiberdeck®100 system has a class A roofing classification and a 1 hour fire rating. (When Installed per ICBO ES ER-5615)

Where To Use
On new or existing concrete or plywood decks and many other substrates. The Elasto Fiberdeck® 100 is suitable for both residential and commercial structures.

Project Conditions
Do not apply materials at temperatures below 500F, or if precipitation is imminent, or above 900F if applying in direct sun light.

System Application
Install the Elasto Fiberdeck ® 100 in accordance with its Installation Instructions.

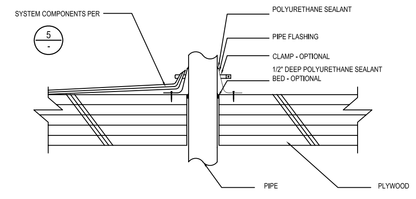
Substrates
Plywood must be min 5/8" thick, exterior grade, attached to framing spaced max 16" on center and properly blocked, supported and fastened. Concrete decks must comply to code and be min 2000 PSI after 28 days curing time.

Preparation of Substrates
The substrate surfaces must be structurally sound, clean, dry, free of contamination, and prepared according to the Installation Instructions.

Installation
A. Over plywood substrates only:
This step is required for the 1 hour fire rating and the ICBO ES approval. Otherwise, its optional. Install AVM Crete 6400 1/4" thick per installation Instructions.
B. Install the Elasto Fiberdeck waterproofing membrane to both plywood or cement substrates as follows:
C. Patch all plywood joints, cracks, voids, etc., using AVM Acripatch 5020.
D. Apply Primer 100 to all surfaces.
E. Laminate the fiberglass mat with the AVM Base resin 100.
F. Spray, trowel or roll the AVM Texture 100 to all surfaces.
G. Apply the AVM Top Coat Sealer 4100 to all surfaces.

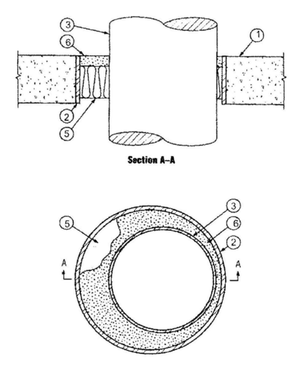
- TILE (STONE) DECKING: PER OWNER
- INSTALL TILE PER TCA, # F 144 (MODIFIED)

ER-5615 ELASTO FIBERDECK 100 - PREPARATION & INSTALATION | 11



ER-5615 ELASTO FIBERDECK 100

PIPE PENETRATION OVER PLYWOOD | 10



F-rating = Three hours
T-rating = Zero hour

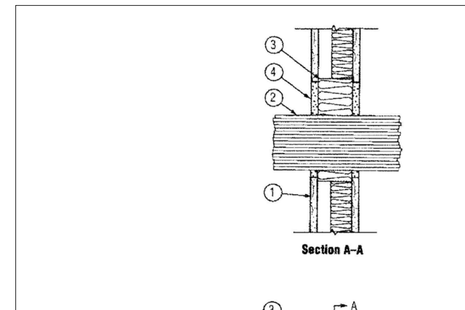
1. **Floor or Wall Assembly:** Minimum 4 1/2-inch-thick lightweight or normal-weight concrete (100-150 pcf) floor or minimum 5-inch-thick concrete wall. Walls may also be constructed of code-complying concrete blocks. Concrete and concrete block thickness must comply with UBC Tables 7-B and 7-C.
2. **Steel Sleeve:** Optional; Schedule 40 (or heavier) steel sleeve cast into floor or wall with length equal to thickness of floor or wall. The maximum sleeve diameter and hole diameter where the sleeve is omitted is 6, 8 and 14 inches for penetrating items of cables, 4-inch-diameter metallic pipes and 10-inch metallic pipes, respectively.
3. **Metallic Pipe:** The following types and sizes of metallic pipes, tubing or conduits may be used, with a maximum of one pipe, tubing or conduit installed within the through-opening:
   a. Nominal 10-inch-diameter (or smaller) Schedule 10 (or heavier) steel pipe. The annular space between the pipe and the periphery of the opening may range from a minimum of 7/8 inch to a maximum of 2 7/8 inches.
   b. Nominal 4-inch-diameter (or smaller) electrical metallic tubing (EMT) or galvanized steel rigid conduit, or Schedule 10 (or heavier) steel pipe. The annular space between the pipe and the periphery of the opening may range from a minimum of 7/8 inch to a maximum of 3 7/8 inches.
4. **Cables:** (Not shown) As an option to Item 3, minimum 10 percent to maximum 40 percent fill of maximum 100 pairs No. 24 AWG telephone cables with polyvinyl chloride-insulation and jacket. Cables to be rigidly supported on both sides of wall assembly. The annular space between the cables and the periphery of the opening may range from a minimum of 7/8 inch to a maximum of 3 7/8 inches.
5. **Forming Material:** Minimum 3-inch thickness of THERMAFIBER Safing Insulation, firmly packed between the penetrant and periphery of the opening as a permanent form. Forming material shall be recessed a minimum of 1 inch from top surface of floor assembly and both surfaces of wall assembly.
6. **Fill, Void, or Cavity Material:** Mixed FIRECODE Compound applied to the top surface of the forming material within the annulus between the penetrating item and periphery of opening to a minimum depth of 1 inch. The compound shall be troweled flush with the top surface of the floor and both surfaces of the wall assembly.

AIR DUCT

ER-5050
USG FIRE-STOP PENETRATION SYSTEMS

NTS

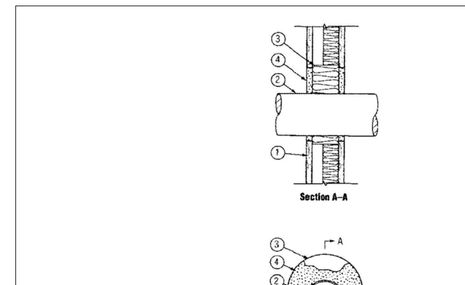
PENETRATIONS TROUGH CONCRETE SLAB | 3



F-rating = One hour
T-rating = Zero hour and one hour (See Item 2)

1. **Wall Assembly:** The fire-rated gypsum wallboard/stud wall assembly shall comply with the code for a one-hour rating, and shall include the following construction features:
   a. **Studs**—Wall framing may consist of either wood studs or steel channel studs. Wood studs consist of nominal 2-by-4-inch lumber spaced 16 inches on center, maximum. Steel studs to be a minimum of 2 1/2 inches wide and a maximum of 24 inches on center.
   b. **Batts and Blankets**—Nominal 1 1/2-inch-thick mineral wool batts with a 2.75 pcf density, friction-fitted to fill interior of stud cavities.
   c. **Wallboard, Gypsum**—One layer of nominal 1/2-inch-thick United States Gypsum Corporation Type C gypsum wallboard, each face of wall. Maximum opening diameter is 6 inches.
2. **Cables:** Aggregate cross-sectional area of maximum 100 pairs, No. 24 AWG telephone cables in opening to be minimum 10 to maximum 40 percent of the aggregate cross-sectional area of the opening. Cables to be rigidly supported on both sides of wall assembly. When fill does not exceed 10 percent, T-rating is one-hour.
3. **Forming Material:** Minimum 2 1/2-inch thickness of THERMAFIBER Safing Insulation firmly packed into opening as a permanent form. Forming material to be recessed from both surfaces of wall to accommodate the required thickness of fill material.
4. **Fill, Void or Cavity Material: Sealant:** Minimum 1/2-inch thickness of FIRECODE Compound fill material applied within the annulus, flush with both surfaces of wall.

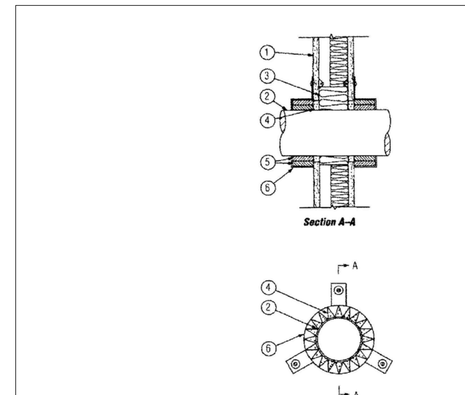
CABELS



F-rating = One hour
T-rating = Zero hour and one hour (See Item 2)

1. **Wall Assembly:** The fire-rated gypsum wallboard/stud wall assembly shall comply with the code for a one-hourrating 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 ofnominal 2-by-4-inch lumber spaced 16 inches on center, maximum. Steel studs to be a minimum of 2 1/2 inches wide and a maximum of 24 inches on center.
   b. **Batts and Blankets**—Nominal 1 1/2-inch-thick mineral wool batts with a 2.75 pcf density, friction-fitted to fill interior of stud cavities.
   c. **Wallboard, Gypsum**—One layer of nominal 1/2-inch-thick United States Gypsum Corporation Type C gypsum wallboard, each face of wall. Maximum diameter of opening is 6 inches.
2. **Through-penetrants:** One metallic pipe, conduit or tube to be centered within the fire-stop system. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits and tubing may be used:
   a. **Steel Pipe**—Nominal 4 inch-diameter (or smaller) Schedule 10 (or heavier) steel pipe. The annular space shall be a minimum of 1/4 inch to a maximum of 1 1/4 inches. When steel pipe is used, the T-rating is zerohour.
   b. **Conduit**—Nominal 4-inch-diameter (or smaller) electrical metallic tubing (EMT) or steel conduit. The annular space shall be a minimum of 1/4 inch to a maximum of 1 1/4 inches. When the conduit is 1/2 inch in diameteror less, the T-rating is one hour.
   c. **Copper Tubing**—Nominal 7/8-inch-diameter (or smaller) Type L (or heavier) copper tubing. The annular space shall be a minimum of 1/4 inch to a maximum of 1 11/16 inches. When copper tubing is used, the T-rating is zero hour.
   d. **Copper Tubing**—Nominal 4-inch-diameter (or smaller) Type L (or heavier) copper tubing. The annular space shall be a minimum of 7/8 inch to a maximum of 1 1/4 inches. When copper tubing is used, the T-ratingis zero hour.
3. **Forming Material:** Minimum 2 1/2-inch thickness of THERMAFIBER Safing Insulation firmly packed into open-ing as a permanent form. Forming material is to be recessed from both surfaces of wall to accommodate the required thickness of fill material.
4. **Fill, Void or Cavity Material:** Minimum 1/2-inch thickness of FIRECODE Compound fill material applied within the annulus, flush with both surfaces of wall.

METAL PIPE



F-rating = One hou
rT-rating = One hour

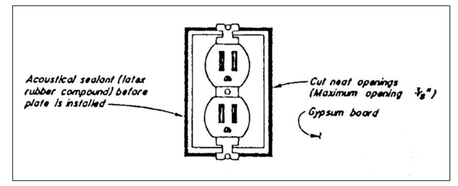
1. **Wall Assembly:** The fire-rated gypsum wallboard/stud wall assembly shall comply with the code for a one-hour rating and shall include the following construction features:
   a. **Studs**—Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nominal 2 by 4-inch lumber spaced 16 inches on center, maximum. Steel studs to be a minimum of 2 1/2 inches wide and a maximum of 24 inches on center.
   b. **Batts and Blankets**—Nominal 1 1/2-inch-thick mineral wool batts with a 2.75 pcf density, friction-fitted to fill interior of stud cavities.
   c. **Wallboard, Gypsum**—One layer of nominal 1/2-inch-thick United States Gypsum Corporation Type C gypsum wallboard, each face of wall. Maximum diameter of opening is 6 inches.
2. **Nonmetallic Pipe:** Nominal 4-inch-diameter (or smaller) Schedule 40 polyvinyl chloride (PVC) pipe for use inclosed (process or supply) piping system. A minimum 11/16-inch to maximum 11/8-inch annular space is required within the fire-stop system. Pipe to be rigidly supported on both sides of wall assembly.
3. **Forming Material:** Minimum 2 1/2-inch thickness of THERMAFIBER Safing Insulation firmly packed into opening as a permanent form. Forming material to be recessed from both surfaces of wall to accommodate the required thickness of fill material.
4. **Fill, Void or Cavity Material:** Minimum 1/2-inch thickness of FIRECODE Compound fill material applied within the annulus, flush with both surfaces of wall.
5. **Fill, Void or Cavity Material: Wrap Strip:** Three layers of 3M Company Type FS-195 Wrap Strip installed around PVC pipe on each side of wall.
6. **Steel Collar:** Steel collar as described in this report, tightened around wrap strip and pipe using a minimum 1/2-inch-wide-by-0.028-inch-thick stainless steel hose clamp installed at mid-height. Collar secured to gypsum wallboard with 1/2-inch-diameter by minimum 3-inch-long steel toggle bolts in conjunction with minimum 3/4-inch-diameter washers. One collar installed on each surface of wall.

NONMETALLIC PIPE

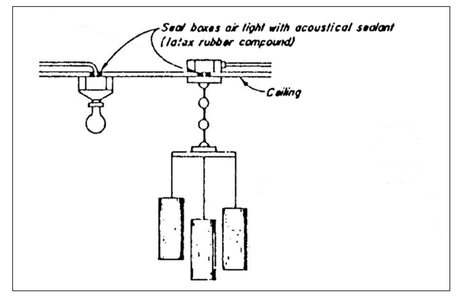
ER-5050
USG FIRE-STOP PENETRATION SYSTEMS

NTS

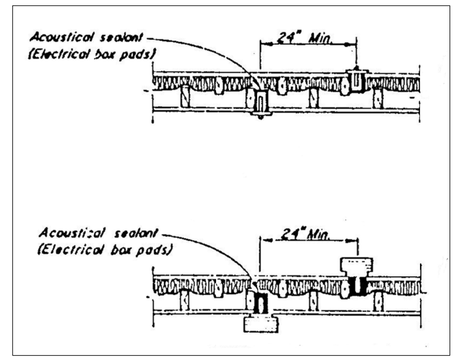
PENETRATIONS INTO 1 HR FIRE RATED WALLS | 2



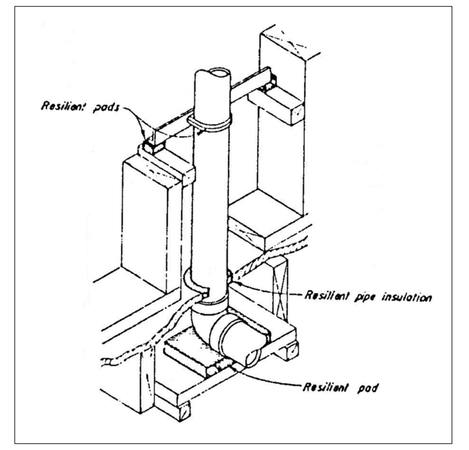
ELECTRICAL OUTLETS



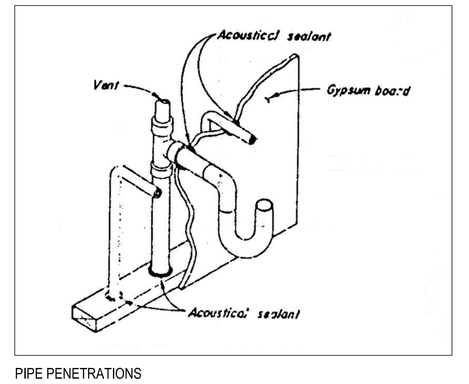
CEILING FIXTURES



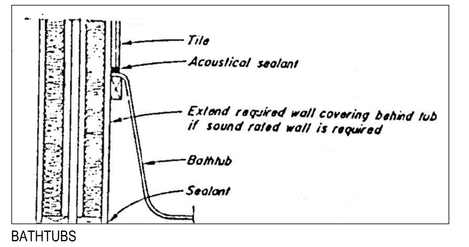
WALL FIXTURES



PIPE SUPPORT



PIPE PENETRATIONS



BATHTUBS

NTS

PENETRATIONS INTO SOUND RATED WALLS | 1

LICENESED ARCHITECT
VLADIMIR TOMALEVSKI
C22417
06.30.09.
RENEWAL DATE
STATE OF CALIFORNIA

MR. ALI MADANI & MR.HOSSEIN ASHTIANI
5 UNIT CONDOMINIUMS at:
1327 EUCLID STR., SANTA MONICA, CA-90404

L&V architects inc.
1514 17th Street, Suite 207
Santa Monica, CA 90404
Tel: 310. 829. 0996; Fax: 310. 829. 7889

DETAILS title

08.29.07. date

NTS scale

AD -3 sheet number