NOT TO SCALE

MULTIPLE PENETRATIONS THROUGH GYPSUM WALL ASSEMBLY (1-HR.)

1. Metal Pipe Through Gypsum Wall Assembly (1-HR.)
2. Multiple Metal Pipes Through Gypsum Wall Assembly (1-HR.)
3. Plastic Pipe Through Gypsum Wall Assembly (1-HR.)
4. Plastic Pipe Through Gypsum Wall Assembly (1-HR.)
5. Plastic Pipe With AB/PVC Insulation Through Gypsum Wall Assembly (1-HR.)
6. Metal Pipe With Glass Fiber or Calcium Silicate Insulation Through Gypsum Wall Assembly (1-HR.)
7. Metal Duct (Without Damper) Through Gypsum Wall Assembly (1-HR.)
8. Metal Duct Through Gypsum Wall Assembly (1-HR.)
9. Metal Duct With Glass Fiber Insulation Through Gypsum Wall Assembly (1-HR.)
10. Multiple Penetrations Through Gypsum Wall Assembly (1-HR.)

Notes:
1. Refer to the following specifications for firestopping:
   a. UL 905 Firestopping
   b. UL 402 Penetration Firestopping
   c. 2005 IBC Plumbing
   d. 2005 NEC Electrical
   e. ASTM E-1-05 Content
   f. 27 06 37 Communication
   For Quality Control requirements, refer to the Quality Control
   portion of this specification.
2. Details shown are typical details, containing general information
   only. Always refer to the full UL system detail for complete system
   requirements. If field conditions do not match
   requirements of details, approved alternate details shall be
   allowed. Design requirements, if conditions and dimensions
   need to be verified for compliance with the details, including but
   not limited to the following:
   - Fire Rating (F-Rating)
   - Temperature Rating (T-Rating)
   - Leakage Rating (L-Rating)
   - Annular Space
   - Percent Fill
   - Movement
   - Type and Thickness of fire-rated construction.
3. Fabrication details matching the field conditions are not available
   manufacturer’s engineering judgment drawings are acceptable.
   Contact Hill Inc. for alternative systems or Engineering
   Judgments. (See 704-705) Drawings shall follow the International
   Firestop Council (IFC) Guidelines for Evaluating Firestop
   Systems Engineering Judgments.
4. References:
   1. 2013 Underwriter’s Laboratories Fire Resistance Directory
   3. NFPA 70 National Electric Code
   4. All governing local and regional building codes
   5. Firestop System installation must meet requirements of ASTM
      E 196 (Jul 97) labeled assemblages that provide a fire rating
      equal to that of the construction being penetrated.
   6. All rated through penetration assemblies shall be precut
      and labeled with a UL Firestop Label sprayed with a QR code
      containing the following information:
      - Warning: Do not cut
      - Through Penetration Firestop System
      - UL System F (product) used
      - Hourly Rating (F-Rating)
      - Verification Code
      - Contractor’s Name
   7. For outlet boxes requiring protection, use only Wall Opening
      Protective Materials, category CLIV as classified by Underwriter’s
      Laboratories, Fire Resistance Directory (Volume 1).