

INSULATION, TYPE AND  
PLACEMENT DETERMINED  
BY OTHERS (SEE NOTE A)

GYPSUM BOARD

MASONRY VENEER

CMU OR CONCRETE  
WALL

PERM-A-BARRIER® ULTRA

BITUTHENE® LIQUID MEMBRANE  
OR UNIVERSAL FLASHING &  
SEALANT APPLIED INTO ANNULAR  
SPACE TO A MIN. 1/2 IN. DEPTH  
AND OVERLAP ONTO  
PERM-A-BARRIER® ULTRA AND  
PENETRATION MIN. 2-1/2 IN.

DUCT PENETRATION

ELECTRICAL BOX  
PENETRATION. BOX  
MUST BE SEALED  
AIR TIGHT. AIR  
SEAL MUST TIE  
INTO AIR BARRIER.

BITUTHENE® LIQUID MEMBRANE  
OR UNIVERSAL FLASHING &  
SEALANT APPLIED INTO  
ANNULAR SPACE TO A MIN. 1/2  
IN. DEPTH AND OVERLAP A  
MIN. 2-1/2 IN. ONTO  
PERM-A-BARRIER® WALL  
MEMBRANE AROUND  
PERIMETER OF ELECTRICAL  
BOX

PIPE PENETRATION

BITUTHENE® LIQUID MEMBRANE  
OR UNIVERSAL FLASHING  
& SEALANT APPLIED INTO  
ANNULAR SPACE TO A MIN. 1/2 IN.  
DEPTH AND OVERLAP ONTO  
PERM-A-BARRIER® WALL  
MEMBRANE AND PENETRANT MIN.  
2-1/2 IN.

- Important Notes:**
- A.** Detail not suitable for all climates. Avoiding excessive moisture accumulation in exterior walls is dependent on many factors including proper placement of insulation and air and vapor barriers in the wall. For assistance with exterior wall design, consult with a building science professional or a GCP representative.
  - B.** To ensure a continuous air barrier across the building envelope, a fully continuous connection should be made to the roof system and GCP Waterproofing System.
  - C.** Ensure window system is properly aligned with wall insulation and installed per the window manufacturer's recommendations to ensure continuity of the air barrier system.
  - D.** Install all GCP products in accordance with GCP Product Data Sheets and GCP recommendations.



Penetration Detail  
Perm-A-Barrier® ULTRA  
Air Barrier System

DRAWING: PWM - 117

SCALE: Not to scale

EFFECTIVE DATE: 12/10/23

Supersedes: NEW