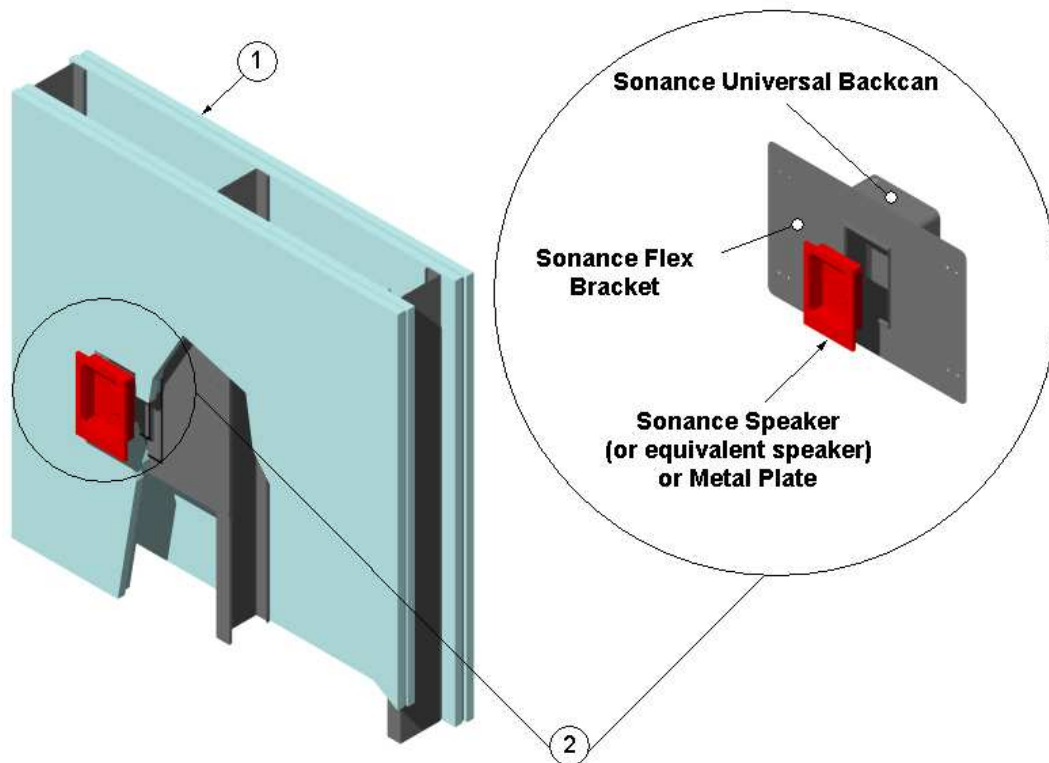

Design No. DII/PV 60-08
Penetration Fire Stops – ASTM E 814-06
T Rating – 1 hr.
F-Rating - 1 hr.



Concept drawing - not to scale.

1. GYPSUM WALL ASSEMBLY – Any one-hour wall assembly rated in accordance with ASTM E 119, UL 263, NFPA 251, CAN/ULC S101 and complying with the following: Use steel stud framing with minimum 1-1/4 inch by 3-1/2 inch, No. 25 GSG galvanized steel studs, spaced 16 inches on center, inserted into minimum 1-1/2 inch by 3-1/2 inch wide No. 25 GSG galvanized steel floor and ceiling "C" channels. Studs attached with minimum #6 x 3/8-inch steel stud framing screws to channel shaped floor and ceiling runners, or use wood stud framing consisting of minimum No. 2 grade nominal 2 x 4 Douglas fir lumber spaced 16 inch on center attached to single bottom plate and double top plates with 16d common

nails, two at each plate connection. Cover framing with one layer of minimum 5/8-inch thick ASTM C 1396 Type X gypsum board (or equivalent) applied to each side of the steel stud framing. Apply steel or wood cross bracing at the mid-height of the wall assembly. Apply gypsum board using minimum 1 inch type S drywall screws spaced 8 inches on center along the perimeter and 12 inches on center along all studs. Premixed joint compound applied to face layers of gypsum wallboard in two coats to all exposed fastener heads and gypsum wallboard joints. A minimum 2 inch wide paper tape (or equivalent) is embedded in first layer of compound over joints in second layer of gypsum wallboard.

NOTE: Cavity insulation is not required in this wall assembly to achieve the 1-hr fire-resistance rating.

2. **PENETRATING ITEMS** – In-wall metal speaker backcan assembly consisting of a Sonance Universal rectangular insulated metal speaker backcan (Part No. 92807), a Sonance Flex Bracket, and either an in-wall speaker or a metal cover plate.

NOTE: The inclusion of either an in-wall speaker or a metal cover plate in the backcan/flex bracket opening is required in this assembly to achieve the 1-hr fire-resistance rating.

Attach the Sonance Universal rectangular insulated metal speaker backcan at the desired elevation to the vertical studs through the pre-drilled holes in the flange of the speaker backcan using a minimum of four (4) #8 x 1-1/4-inch long mechanical fasteners: one applied to each corner.

Attach the Sonance Flex Bracket, positioned over the backcan opening and serving as a guide for the gypsum board installer when cutting the speaker opening, with nails, screws or staples to the framing members in accordance with the Sonance Flex Bracket Installation Instructions.

Cut a hole in the gypsum board (item1) to match the opening created by the speaker backcan/flex bracket assembly.

Apply the gypsum board (Item 1) over the Universal speaker backcan/Flex Bracket assembly so that the gypsum board opening is aligned with the speaker backcan/flex bracket opening.

Install an in-wall speaker or a metal cover plate. Reference the manufacturer's installation instructions for more details about the speaker assembly, installation, and wiring.

The metal speaker backcan is manufactured for use with the Sonance Flex Bracket and either a Sonance VP6" rectangle, Sonance VP4" rectangle, Sonance Symphony® T rectangle series or Merlot® series speakers (other manufacturer's speakers may be suitable for installation in the metal speaker backcan/flex bracket assembly)

Listed Manufacturer:

Sonance – Universal rectangular insulated metal in-wall speaker backcan/Flex Bracket assembly.