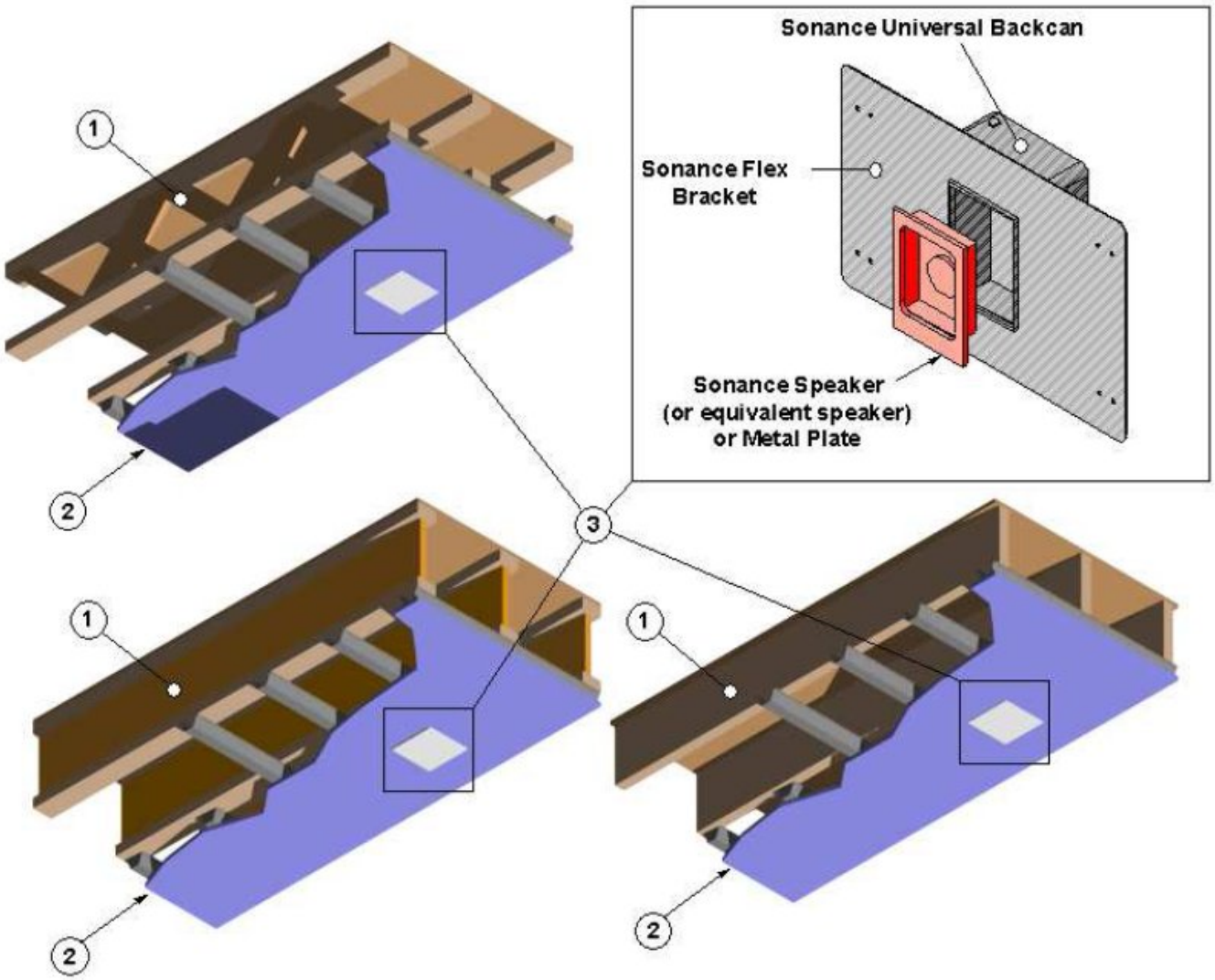
FIRESTOP SYSTEMS

DANA INNOVATIONS - San Clemente, CA USA

- DESIGN NO. DII/PH 60-03
- DEISGN NO. DII/PH 60-04
- DESIGN NO. DII/PH 60-05
- DESIGN NO. DII/PH 60-06
- DESIGN NO. DII/PH 60-09

DESIGN NO. DII/PH 60-09
ASSEMBLY RATING: T - 1 HOUR; F - 1 HOUR



1.	**FLOOR/CEILING ASSEMBLY:** Any one-hour fire-rated floor-ceiling assembly rated in accordance with ASTM-E119, UL-263, NFPA-251, CAN/ULC-S101 or complying with the following: Use nominal 2 x 10 SYP wood or steel, solid or open-web joists spaced 16 inches oc maximum. Subfloor/underlayment (Item 1): 19/32” thick plywood with long edges T&G and 15/32” interior plywood underlayment with exterior glue subfloor perpendicular to joists with joints staggered from both adjacent subflooring and underlayment (or equivalent subfloor/underlayment) or 1” nominal wood sub and finished floor. Subfloor and underlayment fastened to joists in accordance with local building code. **NOTE:** Cavity insulation is not required in this floor/ceiling assembly to achieve the 1-hour fire-resistance rating.
2.	**Gypsum Board Ceiling:** Cover underside of joists with one layer of minimum 5/8” thick ASTM-C1396, Type X

	gypsum board (or equivalent). Apply gypsum board using minimum 6d, 1-7/8” long gypsum board nails spaced 6” oc maximum. Premixed joint compound applied to face layers of gypsum board in two coats to all exposed fastener heads and gypsum wallboard joints. A minimum 2” wide paper tape (or equivalent) is embedded in first layer of compound over joints in second layer of gypsum wallboard.
3.	**PENETRATING ITEM:** In-ceiling metal speaker backcan assembly (Item 3) consisting of a Sonance Universal rectangular insulated metal speaker backcan (Part No. 92808), a Sonance Flex Bracket, and an in-ceiling speaker. **NOTE:** The inclusion of a speaker in the backcan opening is not required in this assembly to achieve the 1-hour fire-resistance rating. Attach the Sonance Universal speaker backcan (Part No. 92808) to the horizontal ceiling joists at the desired location through the pre-drilled holes in the flange of the speaker backcan using a minimum of four (4) #8 x 1-1/4” long mechanical fasteners, one applied to each corner. Attach the Sonance Flex Bracket positioned over the backcan opening with nails, screws or staples to the joist members in accordance with the Sonance Flex Bracket Installation Instructions. Cutting a hole in the gypsum board to match the opening in the speaker backcan/flex bracket assembly, apply the gypsum board (Item 2) over the speaker backcan/flex bracket assembly so that the opening is aligned with the speaker backcan/flex bracket opening. Reference the manufacturer’s installation instructions for more details about the speaker assembly, installation, and wiring. The Sonance Universal in-ceiling speaker backcan and Flex Bracket are manufactured for use with the following Sonance in-ceiling speakers: VP8" round and square speakers; VP6" round, rectangular, and DR-series speakers; VP4" round, rectangular, and square speakers; Symphony T-, TR-, TSQ-series or Merlot MR, M, or MSQ speakers (other manufacturer’s speakers may be suitable for installation in the metal speaker backcan/flex bracket assembly).

- **DESIGN NO. DII/PV 60-01**
- **DESIGN NO. DII/PV 60-02**
- **DESIGN NO. DII/PV 60-07**
- **DESIGN NO. DII/PV 60-08**

Party(s) Authorized by Manufacturer To Apply Mark:	
Sun Technique Electric Co., Ltd. Song Mu Shon Village, Da Land Town Dongguan City, Guangdong China	

- **Evaluated to the following...**