

Reliance Worldwide Corporation Limited
Design No. RWC/PF 120-03
Penetration Firestopping
Holdrite Ice Maker and Appliance/Fixture Outlet Box
ASTM E814 and CAN/ULC-S115

Table 1. Ratings

Water Line	ASTM E814 Ratings	CAN/ULC-S115 Ratings
CPVC, PEX, or Copper	F-Rating: 120 Minutes T-Rating: 84 Minutes	F-Rating, FH-Rating: 120 Minutes FT-Rating, FTH Rating: 84 Minutes

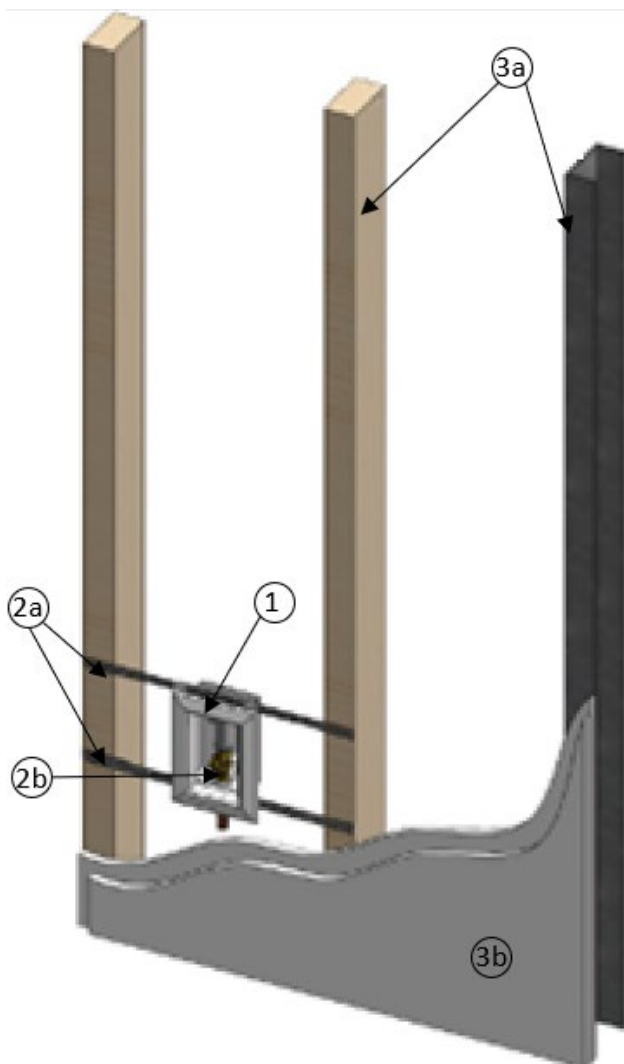


Figure 1. Outlet Box in 2 Hour Fire Rated Walls



1. COMPONENT NAME: Outlet Box

CERTIFIED PRODUCT: Reliance Worldwide Corporation Limited, Holdrite Ice Maker and Appliance/Fixture Outlet Boxes

CERTIFIED SERIES: HR-IMR and HR-AFR Product Family

Outlet Boxes may be installed on each side of the supporting wall assembly (Item 3) when installed in separate wall cavities. The boxes shall not be installed in the same cavity back-to-back. A max. of one box may be installed in a single cavity on the support bracket. When using wood framing (Item 3A), the outer edge of box must be min. 2-1/2 in. away from the nearest stud.

2. INSTALLATION COMPONENTS:

- A. BRACKETS – Box to be mounted using either HoldRite 170 brackets and/or HYCO bars. HoldRite 170 brackets can only be used as a top mount. HYCO bars can be used as either the top and/or bottom mounts. Refer to manufacturer's instructions for installation.
- B. BRASS VALVES – Brass valves with or without water hammer arrestor and nominal 1/2 in. PEX, CPVC, or copper inlets.

3. WALL ASSEMBLY: Use a 2 hour fire-rated wall assembly with the following min. construction requirements.

- A. FRAMING – Nominal 2 x 4 wood studs or min. 26 GA steel studs located at max. 24 in. on center (oc).
- B. GYPSUM SHEATHING – Two layers of min. 5/8 in. thick, Type X gypsum, compliant with ASTM C1396, on each face, secured with min. 1-1/4 in. drywall screws spaced 12 in. oc around perimeter and across field.

Cover exposed screw heads and gypsum joints with two coats of vinyl or casein, dry or premixed, joint compound. Embed min. 2 in. wide paper, plastic, or fiberglass tape in compound mix over exposed gypsum joints. The perimeter of the box must have dry joint compound to fill any voids or gaps prior to face plate application of the box.

C. OTHER APPROVED 2 HOUR FIRE RATED WALL ASSEMBLIES (Not Shown) – Unless otherwise noted, combustible insulation options have not been evaluated or approved for use with the certified outlet box (Item 1); unless otherwise noted min. stud cavity of 3-1/2 in. required; unless otherwise noted gypsum wall membrane may not exceed 1-1/4 in. thick; unless otherwise noted, lead backed or lined gypsum membrane options are not approved.

- i. UL Design Nos. U301, U351, U377, U378 (2 hour rated only), U395 (2 hour rated only), U430 (3 hour rated only).
- ii. UL Design Nos. U302, U372, U418, U443, U474, U475 (2 hour rated only). This listing only covers installation from interior gypsum board side of wall for the referenced non-symmetrical fire rated designs.
- iii. UL Design No. U411: Approved for use with the following conditions. Only approved with two layers of 5/8 in. gypsum board on each side of framing. Design No. U411 Items 8 to 8F Optional Furring Channels and Optional Framing Members shall be excluded. Not approved with lead backed gypsum. Foamed plastic insulation is not approved.
- iv. UL Design No. 419: Approved for use with the following conditions. Only approved with two layers of 5/8 in. gypsum board on each side of framing.



Design No. U419 Items 7 to 7H Optional Furring Channels and Optional Framing Members and Item 3 Optional Wood Structural Panel Sheathing shall be excluded. Not approved with lead backed gypsum. Foamed plastic insulation is not approved.

- v. UL Design No. 423: Approved for use with the following conditions. Only approved with two layers of 5/8 in. gypsum board on each side of framing. Design No. U423 Items 4 Optional Wood Structural Panel Sheathing shall be excluded. Not approved with lead backed gypsum or Foamed plastic insulation.

Consult the listing report on the Directory of Building Products (<https://bpdirectory.intertek.com>) for the edition of the standard(s) evaluated.

Compliance of the assembly described in this Design Listing with the referenced standard relies on verification that the assembly constructed in the field is consistent with that described herein. Intertek certified products may be verified by the approved Intertek label; other products must be verified by the Authority Having Jurisdiction as meeting the specifications stated herein.