ICC-ES Listing Report ESL-1484

Reissued December 2024

This listing is subject to renewal December 2025.

CSI: DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION
Section: 07 20 00—Thermal Protection

DIVISION: 10 00 00—SPECIALTIES
Section: 10 44 13—Fire Protection Cabinets

DIVISION: 26 00 00—ELECTRICAL
Section: 26 05 33—Raceway and Boxes for Electrical Systems

Product Certification System:

The ICC-ES product-certification system includes evaluating reports of tests of standard manufactured product, prepared by accredited testing laboratories and provided by the listee, to verify compliance with applicable codes and standards. The system also involves factory inspections, and assessment and surveillance of the listee's quality system.

Products: FLAMEBAR FIRE RATED CABINET

Listee: CONQUEST FIRESPRAY LLC

Evaluation: **Flamebar Fire Rated Cabinets** are proprietary insulated junction boxes designed to protect UL 2196 certified cables. Each insulated junction box includes a bottom section (cable housing) and a top section (lid/enclosure seal). Both sections consist of inner and outer galvanized sheet steel shells with a proprietary insulation layer in between. The bottom sections include through-openings in the sides of the insulated junction box, in the configurations described in the ICC Design No., which have EMT conduit sleeves (inner and outer) attached to the inner and outer shells and centered over the through-openings for cable passage. An optional layer of minimum $^5/_8$-inch (15.9 mm) thick Type X gypsum wallboard (GWB), complying with ASTM E1396, may be adhered to the inside of the box on all six sides (five sides of the bottom section, and one on the underside of the top section).

The top section (lid) must be fastened to the bottom section sleeve along the perimeter using ¾-inch (19.1 mm) long self-drilling screws spaced at a maximum of 3-inches (76.2 mm) on center, and a minimum $^3/_8$-inch (9.5 mm) diameter through-bolt at each corner. The outside dimensions of the Flamebar Fire Rated Cabinets (without connection flanges considered) are nominally $30^1/_2$-inch by $20^1/_2$-inch by $21^1/_2$-inch (775 mm by 521 mm by 546 mm) or $30^1/_2$-inch by $30^1/_2$-inch by $21^1/_2$-inch (775 mm by 775 mm by 546 mm) with nominal finished inside dimensions (without the optional layer of GWB thickness considered) of $19^3/_4$-inch by $9^3/_4$-inch by $10^1/_2$-inch (502 mm by 248 mm by 267 mm) or $19^3/_4$-inch by $19^3/_4$-inch by $10^1/_2$-inch (502 mm by 502 mm by 267 mm), respectively.

Flamebar Fire Rated Cabinets were evaluated based on testing consisting of building-material components described in the Design Listings, tested in accordance with the following standard:

- ASTM E1725-19, Standard Test Methods for Fire Tests of Fire-Resistive Barrier Systems for Electrical System Components, ASTM International.

Findings: Evaluation of Flamebar Fire Rated Cabinets is based on testing in accordance with the applicable test method as referenced in the ICC Design No.

Identification:

1. The ICC-ES mark of conformity, electronic labeling, the listing report number (ICC-ES ESL-1484), and when applicable, the ICC-ES Listing Mark, along with the name, registered trademark, or registered logo of the listee must be included in the product label.
2. In addition, Flamebar Fire Rated Cabinets are identified by a label that includes the product name, the name (Conquest Firespray LLC), and address of the manufacturer.
3. The report holder's contact information is the following:

   CONQUEST FIRESPRAY LLC
   28408 LORNA AVENUE
   WARREN, MICHIGAN 48092
   (586) 576-7600
   www.conquestfirespray.com

Installation: Flamebar Fire Rated Cabinets must be installed in accordance with Conquest Firespray LLC's published installation instructions and this listing.

Conditions of Listing:

1. The listing report addresses only conformance with the standards and code sections noted above.
2. Approval of the product's use is the sole responsibility of the local code official.
3. The listing applies only to the materials tested and as submitted for review by ICC-ES.
4. Conquest Firespray LLC's Flamebar Fire Rated Cabinets are manufactured under a quality control program with inspections by ICC-ES.

ICC Design No. TMP-1484-01

ESL-1484

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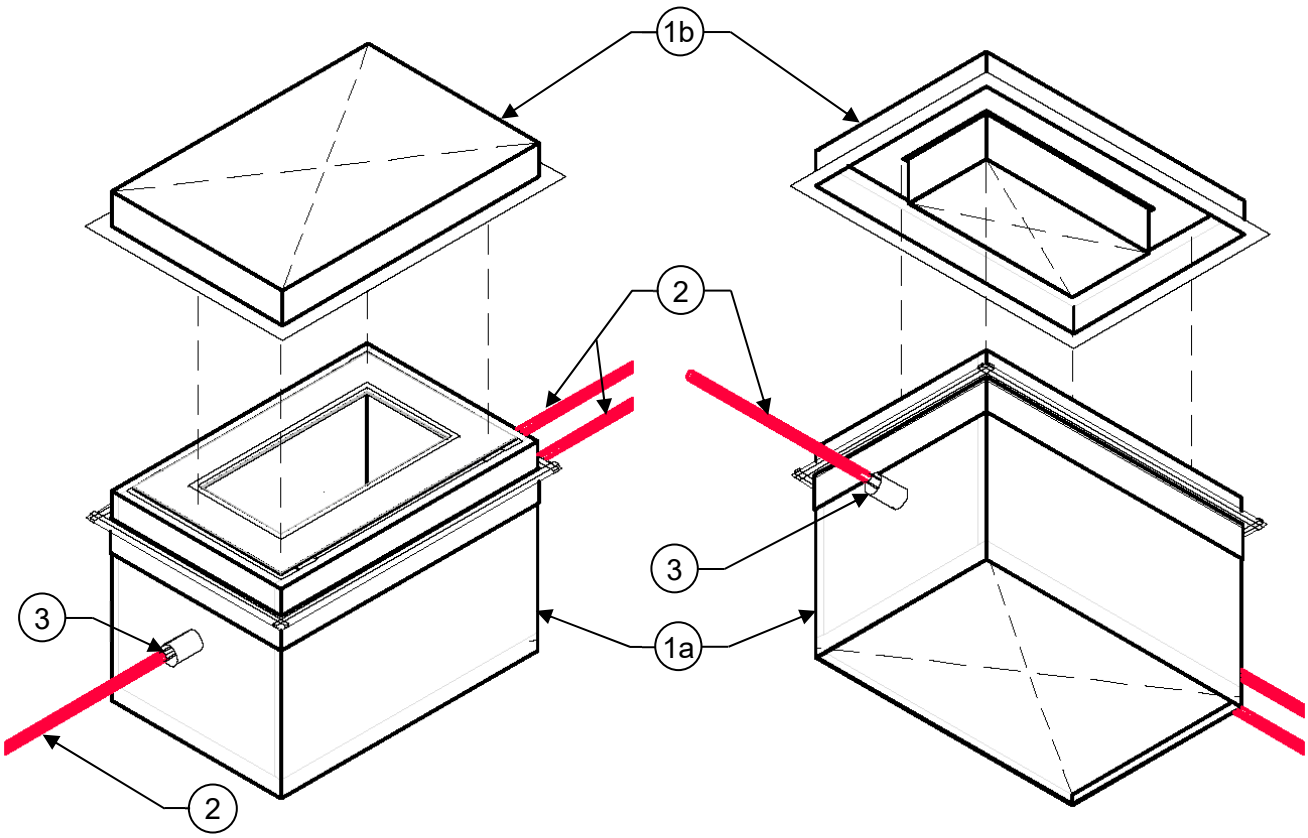
Applicant: CONQUEST FIRESPRAY LLC

Product: FLAMEBAR FIRE RATED CABINET

Standard: ASTM E1725

Assembly Rating: 2-Hour

TMP = Thermal and Moisture Protection



COMPONENTS OF CONSTRUCTION:

1. **Insulated Junction Box –** Each Flamebar Fire Rated Cabinet consists of a bottom section (cable housing) and a top section (lid/enclosure seal), as detailed herein. Prior to the top section (lid) being installed over the bottom section (cable housing), Flamebar Intumescent Sealant must be applied at the corners and seals of the interface, and Flamebar Fibre Gasket installed along the bottom section's sleeve. The top section (lid) must be fastened to the bottom section sleeve along the perimeter using ¾-inch (19.1 mm) long self-drilling screws spaced at a maximum of 3-inches (76.2 mm) on center, and a minimum $^{3}/_{8}$-inch (9.5 mm) diameter through-bolt at each corner. The outside dimensions of the boxes (without connection flanges considered) are nominally $30^{1}/_{2}$-inch by $20^{1}/_{2}$-inch by $21^{1}/_{2}$-inch (775 mm by 521 mm by 546 mm) or $30^{1}/_{2}$-inch by $30^{1}/_{2}$-inch by $21^{1}/_{2}$-inch (775 mm by 775 mm by 546 mm) with nominal finished inside dimensions (without the optional layer of GWB thickness considered) of $19^{3}/_{4}$-inch by $9^{3}/_{4}$-inch by $10^{1}/_{2}$-inch (502 mm by 248 mm by 267 mm) or $19^{3}/_{4}$-inch by $19^{3}/_{4}$-inch by $10^{1}/_{2}$-inch (502 mm by 502 mm by 267 mm), respectively.

    a. **Bottom Section of Insulated Junction Box (Cable Housing) –** Consists of an inner and outer shell of minimum 22-gauge (0.85 mm) thick galvanized sheet steel, proprietary insulation layers between the inner and outer shells, a minimum 20-gauge (1.01 mm) thick galvanized sheet steel sleeve connected to the outer shell, and a minimum 22-gauge (0.85 mm) thick galvanized sheet steel base attached to the inset bottom of the junction box. Corners and seams of the bottom section construction must be sealed with Flamebar Intumescent Sealant.

    Optional minimum $^{5}/_{8}$-inch (15.9 mm) thick Type X gypsum wallboard (GWB), complying with ASTM E1396, may be adhered to the inside of the box on all five faces. Where optionally added, the corners and seams of the GWB layer must be sealed using 3M™ Fire Block Sealant FB136.

    Maximum 1-inch (25.4 mm) diameter through-openings shall be allowed in the following configurations:
    - A single through-opening on one of the four sides of the insulated junction box (one through-opening total).
    - A single through-opening on two opposing sides of the insulated junction box (two through-openings total).
    - Two through-openings on one side, and one through-opening on the opposing side of the insulated junction box (three through-openings total).
    - A single through-opening on three of the four sides of the insulated junction box (three through-openings total).
    - Two through-openings on two opposing sides of the insulated junction box (four through-openings total).

    Note: Where the penetrating cable (Item 2) diameter is less than the maximum ½-inch (12.7 mm), the diameter of the through-opening shall be reduced proportionally to maintain a minimum 25% fill (penetrating cable area to through-opening area).

    For both single and double through-openings on a single side, the elevation of the through-opening(s) must be 10-inches (25.4 cm) measured from the raw top edge of the bottom section of the insulated junction box to the center of the through-opening. For single through-openings, the hole must be centered on the face side-to-side. For double through-openings, the holes must be centered on the face and $3\ ^{3}/_{4}$-inch (95.3 mm) apart from each other center-to-center (or $1\ ^{7}/_{8}$-inch (47.6 mm) from the side's centerline to the center of the through-opening).

    Each through-opening must have EMT conduit sleeves (inner and outer) centered over the through-openings and attached to the inner and outer shells of the insulated junction box for cable passage ($1\ ^{1}/_{2}$-inch (38.1 mm) long, 2-inch (50.8 mm) diameter for inner sleeves protruding into box, and 3-inch (76.2 mm) long, 2-inch (50.8 mm) diameter for outer sleeves protruding out). Where optional minimum $^{5}/_{8}$-inch (15.9 mm) thick Type X GWB is installed, the perimeter of the inner conduit sleeves must be sealed using 3M™ Fire Block Sealant FB136.

    b. **Top Section of Insulated Junction Box (Lid/Enclosure Seal) –** Consists of an outer shell layer and inner "plug" layer of minimum 22-gauge (0.85 mm) thick galvanized sheet steel and proprietary insulation layers between the outer shell and inner "plug" layers. Corners and seams of the top section construction must be sealed with Flamebar Intumescent Sealant.

    Optional minimum $^{5}/_{8}$-inch (15.9 mm) thick Type X gypsum wallboard (GWB), complying with ASTM E1396, may be adhered to the underside of the lid where the enclosure is sealed. Where optionally added, the corners and seams of the GWB layer must be sealed using 3M™ Fire Block Sealant FB136.

2. **Penetrating Item(s) –** One maximum $^{1}/_{2}$-inch (12.7 mm) diameter UL 2196 certified cable may be installed centered through each through-opening of the insulated junction box. Prior to the installation of the UL 2196 certified cable, each cable must be wrapped with a single layer of 3M™ Fire Barrier Expantrol Flexible Intumescent Strip (E-FIS) over the 6-inch length of cable corresponding to where the cable will pass through the through-opening in the insulated junction box.

3. **Void Filler Material –** SpecSeal® SSP Intumescent Firestop Putty must be installed to fill the annular space between the penetrating item and the 2-inch (50.8 mm) diameter inner and outer conduit sleeves. The SpecSeal® SSP Intumescent Firestop Putty must be applied in accordance with the manufacturer's published installation instructions and pressed firmly to fill the void between the cable and the conduit sleeves to a minimum depth of ¾-inch (19.1 mm) on the inside (half of the length of the inner $1\ ^{1}/_{2}$-inch (38.1 mm) long conduit sleeve) and a minimum depth of $1\ ^{1}/_{2}$-inch (38.1 mm) on the outside (half of the length of the outer 3-inch (76.2 mm) long conduit sleeve).