

Safety Venting

Model XRV-TP

10/07/2024

Suggested Specifications | Section 08 95 16

1.01 Summary

- A. Furnish all smoke relief panels, frames, and attachment hardware necessary to complete the work as indicated on the drawings, and as described in the specification.

1.02 Related Sections

- A. Steel Framing
- B. Flashing and Sheet metal Section
- C. Sealants Section

1.03 References

- A. American Society for Testing and Materials (ASTM)
- B. The Aluminum Association (AA)
- C. American Architectural Manufacturers Association (AAMA)
- D. NFPA 68 Guide for Venting of Deflagrations, 1999 Edition.
- E. Factory Mutual Engineering Corporation, 1-44, Damage-Limiting Construction, July 1991.

1.04 Submittals

- A. General: Submit the following according to the Condition of Contract and Division 1 Specification Sections.
- B. Product data for each type of explosion & pressure relief vent specified, including details of construction relative to materials, dimensions of individual components, profiles, finishes, and light transmission values.
- C. Shop drawings showing fabrication and installation of explosion & pressure relief vents, including plans, elevation, sections, and details of components.

1.05 Quality Testing

- A. Materials and work shall conform to the latest edition of reference specification specified herein and to all applicable codes and requirements of local authorities having jurisdiction.
- B. Explosion release device shall be FM listed and approved.
- C. Units shall meet NFPA 68 Design Guidelines for Deflagration Vents.
- D. Single Source Responsibility: Obtain explosion & pressure relief vents from one source of a single manufacturer.

1.06 Delivery, Storage, & Handling

- A. All explosion & pressure relief vents, frames and curbs shall be factory assembled in units and shipped to the job site.
- B. Deliver to site in original, unopened containers and/or pallets bearing manufacturer's name and label.

1.07 Limited Warranty

- A. Manufacturers shall provide limited warranty that the units provided will be free of defects in materials and workmanship for a period of one (1) year from date of substantial completion.

PART 2 PRODUCTS

2.01 Manufacturers

- A. Explovent® XRV-TP Basis of Design manufactured by Construction Specialties subject to compliance with requirements listed. The grilles and related materials herein specified and indicated on the drawings shall be manufactured by: Construction Specialties, 3 Werner Way, Lebanon, NJ 08833. Tel: 800.233.8493. Email: cet@csgroup.com. No substitutions.
- B. Installation shall be performed in accordance with approved drawings and installation instructions.
- C. Manufacturer shall have complete in-house finishing capabilities.

2.02 Materials

- A. Frames shall be constructed of ASTM B 221 alloy 6063-T5 aluminum, mitered and welded with sufficient seepage ports. Mill finished.
- B. Fasteners to be corrosion resistant.
- C. Curbs shall be constructed with a prefabricated aluminum curb, 3003-H14 alloy sheets. Curbs to be 12" high with mounting flange and shall include manufacturer's standard double wall aluminum curb with insulation. Mill finished.

2.03 Fabrication

- A. Model XRV-TP: Fiberglass Translucent Panel Explosion Relief Vents shall release automatically at an outward pressure of — lb./ft² (20 psf recommended) using FM approved release devices.
- B. Panels shall be 2-3/4" thick and consist of architectural grade glass fiber reinforced polymer faces bonded to an interlocked aluminum I-beam grid core.
- C. Tether restraint included eliminating unit from being thrown from immediate area.

PART 3 EXECUTION

3.01 Installation

- A. Preparatory work: Standard trade practices are recommended for preparation of structural arrangements for installation of Explovent® ERV-TP vents or skylights.
- B. Method: Individual Explovent® units are furnished completely assembled, ready for installation on the roof deck, and for flashing into the roof system. Tandem arrays are delivered in accordance with drawings and instructions provided
- A. Installation, flashing, and roofing materials are not included.