

Safety Venting

Model SRP-Bottom Hinged

08/23/2024

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. AMCA 500 (Air movement Control Association) Test Method for Louvers, Dampers, and Shutters.
- B. Aluminum Association, Section 1, Specifications for Aluminum Structures.
- C. AAMA-603 Voluntary Performance Requirements and Test Procedures for Pigmented Organic Coating on Aluminum Extrusions.
- D. ASTM-D35 Standard Test Method for Rate of Burning and/or Extent and Time of Building of Self-supporting Plastics in Horizontal Position.

1.04 System Description

- A. Panels SRP-B to be bottom hinged insulated core with .03" thick aluminum sheet laminated both sides as detailed.
- B. System to be complete with electromagnetic latch to release upon power interruption as signaled by smoke detection system.
- C. Smoke detection system, wiring, and hook up by others
- D. The panel relief system allows for manual retrieval after release.

1.05 Submittals

- A. Complete shop drawing shall be submitted by the manufacturer for approval prior to fabrication. Drawings shall show product location, fabrication details, specified static release loads, and static release forces.
- B. Installation instructions shall be submitted with the shop drawings.

1.06 Quality Testing

- A. The panel system shall be produced by a manufacturer regularly engaged in manufacture of similar products and with a verifiable history of successful product applications.
- B. Products equal to this specification in design, performance, and testing shall be considered, providing they are submitted for approval at least 10 days prior to bid. Submittal for approval shall include product literature, details, product samples, and verification of non-destructive field-testing capabilities. Failure to comply with these requirements shall be cause for rejection.

1.07 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.

1.08 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® SRP-B open smoke relief panel systems 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@c-sgroup.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. SRP-B panels shall be semi-rigid insulated core with .032" (.81mm) thick 3003 or 5005 smooth finish aluminum alloy sheet laminated to both sides. Total depth of panel shall be 2" (50.8mm)
- B. Minimum panel size to be 18"x18". Larger sizes made to suit openings available.
- C. Panel framing components shall be .063" (1.6mm) 6063-T52 alloy extruded aluminum. All fasteners shall be aluminum or stainless steel.
- D. Exterior panel gaskets shall be a pile fiber type with a continuous polypropylene center fin. Interior gaskets shall consist of open cell compression foam and clad with a polyethylene liner.

2.03 Fabrication

- A. Fabricate the Explovent® SRP-B smoke relief panels to the sizes shown on the approved shop drawings.
- B. Panel to be tied into smoke detection system. Upon detection of smoke power to be cut off to the panel's release mechanism opening the panel to vent smoke.
- C. Panels shall be bottom hinged as detailed.
- D. All panels, frames, and release mechanisms shall be factory assembled in units and shipped to the job site.
- E. Head, sill, jamb, and mullions to be two-piece interlocking assemblies for expansion and contraction, and for individual panel removability.
- F. All panels shall have exterior pile gaskets and interior compression (or magnetic) gaskets to minimize air leakage and water entertainment when closed.
- G. The release mechanism shall be mounted to the panel frame.
- H. Release mechanism operates on 24 or 12 VDC.

2.04 Factory Finishing

- A. Powder Coat - A 100% fluoropolymer resin coating
- B. All finishing procedures shall be one continuous operation in the plant of the manufacturer. The coating shall meet or exceed all requirements of AAMA specification 605.2 "Voluntary Specification for High Performance Organic Coating on Architectural Extrusions and Panels."
- C. Warranty: 10-year limited warranty.
- D. Color: As selected by Architect from manufacturer's standard choices for color and gloss.

PART 3 EXECUTION

3.01 Installation

- A. The vents must be installed in accordance with shop drawings, the installation instructions, and any special instructions on the shop drawing.