

Safety Venting

Model SRP-C

10/08/2024

Suggested Specifications | Section 08 95 16

PART 1 GENERAL

1.01 Section Includes

- 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 (SRP-C Center Pivot Panels)

- A. The rotating panel consists of a movable inner panel assembly mounted in a fixed frame with means of opening and closing in response to specified inputs.
- B. The movable panel is constructed of semi-rigid core of insulation with .032" thick aluminum sheets bonded to each face and surrounded by an extruded aluminum frame mechanically fastened to the sheets. This assembly is centrally pivoted at the sides and rotates within the fixed extruded aluminum frame.
- C. The space between the movable panel and the fixed frame is sealed by 2 rows of resilient gaskets seated in extruded slots in the panel frame.
- D. A compressed gas spring and air cylinder are mounted to a channel bracket attached to the fixed frame at the sides of the panel. The rod ends of the gas spring and air cylinder are connected to the operating frame through brackets designed to allow the gas spring to push the panel open to 90 degrees and the air cylinder to return the panel to the full closed position.
- E. When the specified air pressure of 80 psi is applied, the air cylinder maintains the panel in a closed position. If the air supply to the cylinder fails, the gas spring will open the panel to 90-degree position.
- F. Re-application of air pressure to the cylinder will cause it to overcome the opening force of the gas spring and close the panel.

2.01 Manufacturers

- A. Explovent® SRP-C Basis of Design manufactured by Construction Specialties subject to compliance with requirements listed. The 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. Panels shall be semi-rigid insulated core with .032" (.81mm) thick 3003 or 5005 stucco (or optional smooth finish) aluminum allot sheet laminated to both sides. Total depth of panel shall be 2" (50.8mm).
- B. Panel framing components shall be .063" (1.6mm) 6063-T52 alloy extruded aluminum. All fasteners shall be aluminum or stainless steel.
- C. Exterior panel gaskets and interior gaskets shall consist of open cell compression foam and clad with a polyethylene liner.

2.03 Fabrication

- A. Fabricate SRP-C vertical smoke and heat panels to the sizes shown on the approved shop drawings.
- B. SRP-C panels shall be center hinged as detailed.
- C. All panels, frames, and release mechanisms shall be factory assembled in units and shipped to the job site.
- D. Head, sill, jamb, and mullion frame members to be one piece extruded aluminum structural members as detailed, and to have integral caulking slots. Mullions to be single piece assemblies for individual panel removability.
- E. All panels shall have exterior and interior compression (or magnet) gaskets to reduce air leakage and water entrainment when closed.
- F. The release mechanism shall be mounted to the panel frame, and shall be of gas spring, or pneumatic design.

2.04 Factory Finishing

- A. To be 100% Fluoropolymer Resin Powder Coat - Finished to meet or exceed all AAMA 2605-5 criteria.
- B. Color to be selected from manufacturers standard color selection.

PART 3 EXECUTION

3.01 Installation

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