1.01 Section Includes
A. Furnish all explosion & pressure relief panels, frames and attachment hardware necessary to complete the work as indicated on the drawings, and as described in the specifications.

1.02 Related Sections
A. Steel Framing Section
B. Flashing and Sheet metal Section
C. Sealants Section

1.03 References
A. Aluminum Association, Section 1, Specifications for Aluminum Structures.
B. AAMA-603 Voluntary Performance Requirements and Test Procedures for Pigmented Organic Coatings on Aluminum Extrusions.
E. ASTM-E- 283 Standard Test Method for rate of air leakage through exterior windows, curtains walls and doors.

1.04 System Description
A. Pressure relief panel system shall be designed to release at a static pressure differential between interior and exterior of 20-30 lb/ft² ± 10%.
B. The panels and structure supports shall be designed to withstand a maximum wind load of 30 lb/ft² (1436 pascals). Note: Contact Conspec Systems, Inc, (or C/S Construction Specialties Company) if a higher loading requirement in needed.
C. Each panel shall be equipped with a restraint mechanism designed to cushion the panel’s deceleration as the full open position is reached.
D. Panels shall have Factory Mutual approved release fasteners.
E. The weight of the fabricated panel shall not exceed 2.5 lb/ft² (12.2 kg/m²).

1.05 Submittals
A. The manufacturer shall submit complete shop drawings for approval prior in fabrication. Drawings shall show product location, fabrication details, specified static release loads and static release forces.
B. Installation instruction 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.

1.07 Limited Warranty
A. All Explovent® products are sold with standard limited warranty, copy of which is available at our main office.

PART 2 PRODUCTS

2.01 Manufacturers
A. Explovent® ERP-TB thermally broken explosion & pressure relief panel systems shall be manufactured by Construction Specialties, Inc., Cranford, NJ; or C/S Construction Specialties Company, Mississauga, Ontario.
B. All panels shall be permanently marked with the design release pressure and the maximum static release force.
C. Installation shall be performed in accordance with approved drawings and installation instruction.
D. Manufacturer shall have complete in-house finishing capabilities.

2.02 Materials
A. Panels shall be 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 shall be extruded PVC.

2.03 Fabrication
A. Fabricate the pressure relief panels model ERP-TB to the sizes shown on the approved shop drawings.
B. All panels, frames, and release mechanisms shall be factory assembled in units and shipped to the job site.
C. Head, sill, jamb, and mullion frame members to be one piece extruded aluminum structural members as detailed.
D. Curtain wall technology to be employed in the design of perimeter frame members.
E. Explosion relief device to be FM approved.

Factory Finishing
A. To be 100% Fluropolymer 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 be installed in accordance with shop drawings, the installation instructions, and any special instructions on the shop drawing.