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CS™ Explovent®

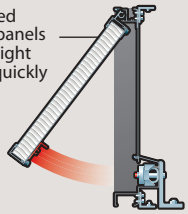
It's the only field testable system.
With other systems you won't know until there's an explosion.

Here's how Explovent works:

Explovent's patented release mechanism is factory calibrated for release at very low pressures, (typically 20 - 30 P.S.P.), yet keeps panels closed until an event occurs.

Normal condition

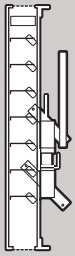
FM approved Explovent panels are lightweight to release quickly during an explosion.



During an explosion

Once the pressure of an explosion has been relieved the panels return to a near closed position, allowing air to return into the room to address implosion concerns.

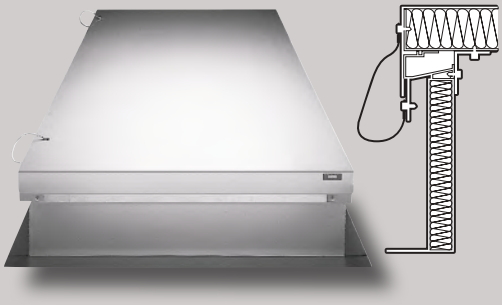
After an explosion



Explosion Relief Louver ERL

Provides explosion or pressure venting with the ability to handle every day exhaust and intake ventilation requirements.

Suitable for applications where exterior interference is present that would block the operation of standard vents.



Insulated Aluminum Panel XRV-IC

XRV-IC roof explosion vents are for buildings where the exterior wall area is insufficient (internal rooms), or where exterior walls are obstructed, thus preventing the use of wall vents.

The XRV-IC insulated aluminum cover offers enhanced thermal performance.

For technical information visit us online @ www.c-sgroup.com

CS Explovent®

The explosion vent tested to work every time.

Blow-out panels that rely on proper field installation may not work. But, testable, resettable Explovent is factory calibrated for release at very low pressures.

If you're involved with a facility where potentially explosive atmospheres, materials or processes exist, you know that it's critical for your pressure venting system to function according to its design parameters as a means of limiting damage. Many blow-out panel systems are larger or heavier than NFPA 68 recommends for maximum performance. And since these products—which typically employ shear bolts, fractionable fasteners and collapsible washers—depend solely on proper field installation, they could be extremely unreliable.

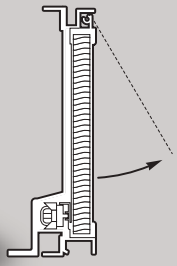
Explovent: Testable, Resettable

FM tested and approved Explovent panels are engineered and fully calibrated at the factory for release at very low design pressures. Designed to NFPA Guidelines, Explovent panels are lightweight (less than 2.5 lb./sq.ft.) in order to react quickly to pressure build-up. Explovent panels are testable at any time, and unlike blow-out siding, Explovent is resettable after an event.

Meets All Codes

In addition to meeting NFPA 68, Explovent conforms to IFC section 911 and all building codes. And Factory Mutual has granted approval of Explovent for use in damage limiting construction utilizing its two inch fiberglass core. For complete details and technical information, call 800-222-0201 or go to www.c-sgroup.com.

An Explovent for every condition

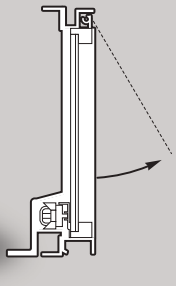


Insulated Aluminum Panel ERP-IC

FM approved and labeled. Designed in accordance with NFPA 68 standards and all fire codes.

Insulated and well sealed to provide a draft free environment.

Available in Kynar 500 and CS Powder Coat finishes.



Translucent Polycarbonate Panel ERP-PC

Designed in accordance with NFPA 68 standards and all building and fire codes.

Translucent panels reduce need for artificial lighting.

High strength poly-carbonate inserts, available in clear, white or bronze tint.

"The fact that Explovent can be tested at any time, gives me peace of mind."

—**Travis Anderton,** Facilities Engineering/EHS Manager, BD Medical

Ethylene gas is used to sterilize medical equipment in this facility's storage building. Explovent panels were specified to release pressure build-up from the gas if ever necessary.

All medical devices manufactured by BD Medical at its Sandy City, Utah, facility are subjected to sterilization prior to sale. Since the sterilization process utilizes ethylene oxide gas, which is explosive, engineers determined the facility needed to provide specialized venting in case of an accidental release of the gas from the sterilization equipment. BD was driven not to just satisfy Code and Insurance requirements, but chose to go beyond the norm to ensure the safest working environment. BD diligently researched what would be the best product to solve their venting problem. According to Travis Anderton, Facilities Engineering/EHS Manager, BD Medical, "After a thorough product search, we were absolutely sold on CS Explovent. The fact that Explovent was FM Approved and could be site tested to verify its performance made our decision easy."

Factory Mutual System Approved

Explovent has been tested and approved by Factory Mutual.

Bottom hinged Explovent panels were field tested during the installation process.

ERP-IC Bottom Hinged

The bottom hinge ERP-IC Explovent Model is similar to our top hinged ERP-IC shown at left.

ERP-IC meets FM, '98 NFPA 68 Guide for Venting of Deflagrations, and major building and fire code requirements.

Smooth leveled surfaces reduce dust accumulation and allow for ease of cleaning, a key to eliminating secondary explosions.

The ERP-IC's rotating hold open device protects the structure from implosion forces as super heated gases begin to cool.

System can be field tested for release through nondestructive means.

Construction Specialties®

CS creates products that solve complex building challenges around the world:

- Acrovyn by Design®
- Acrovyn® Doors & Frames
- Acrovyn® Wall Panels
- Acrovyn® Wall Protection
- Architectural Louvers
- Cubicle Curtains & Track
- Entrance Flooring
- Expansion Joint Covers
- Grilles & Vision Barriers
- Specialty Venting
- Sun Controls

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