



INTRODUCING

DISSOLVABLE AIR BARRIER PANELS (DAB)

Safety-Driven Containment

- ✓ Dissolves rapidly when exposed to water during sprinkler activation
- ✓ Eliminates falling or displaced panel hazards
- ✓ Helps keep pathways clear for emergency personnel

Airflow Performance

- ✓ Provides effective hot and cold aisle airflow separation
- ✓ Helps reduce air mixing and improve cooling efficiency
- ✓ Supports full containment coverage to the ceiling

Safer Overhead Containment for Modern Data Centers

Subzero's Dissolvable Air Barrier Panels (DAB Panels) are engineered to deliver effective airflow containment while addressing a critical safety challenge found in traditional overhead containment systems. Designed to maintain airflow separation during normal operation—and dissolve within seconds during sprinkler activation—DAB Panels help improve data center efficiency without introducing falling panel hazards during fire suppression events.

For more information visit subzeroeng.com

SUBZERO
ENGINEERING



Part of a Complete Subzero Solution

DAB Panels are designed to integrate seamlessly with Subzero's complete portfolio of data center containment products—including AisleFrame systems, vertical containment, horizontal roof containment systems, and airflow management solutions—to deliver truly turnkey containment systems. This integrated approach simplifies design, installation, and long-term operation while ensuring compatibility across all containment components. By working with a single partner and a unified system, customers benefit from improved safety, predictable performance, and a containment solution that can scale and adapt alongside evolving data center demands.

Scan to learn more about
**Subzero
DAB Panels**



Key Benefits of DAB Panels

- ✓ **Dissolvable by Design**
Airflow separation when needed, dissolves when safety matters most
- ✓ **Class A Fire & Smoke Performance**
Low heat, low smoke, controlled burn behavior
- ✓ **EPA-Certified, Plant-Based Materials**
Non-petroleum cellulose construction
- ✓ **Durable During Operation**
Withstands high static air pressure and maintains shape
- ✓ **Flexible Installation**
Panels can be cut to fit around trays, piping, and infrastructure
- ✓ **No Sprinkler Relocation Required**
Saves time and reduces installation costs
- ✓ **Enhanced Strobe Visibility**
Diffuses fire alarm strobe light to improve visual alerting

Technical Specifications

- ✓ **Panel Construction**
 - Pleated, dissolvable paper panel with rigid paper frame
 - EPA-safe, plant-based cellulose materials
- ✓ **Panel Dimensions**
 - Standard size: 24 in x 24 in (2 ft x 2 ft)
 - Panel height: 0.75 in (19 mm)
 - Frame width: 1.375 in (34.9 mm)
- ✓ **Weight**
 - Approx. 0.75 lbs (0.34 kg) per panel
- ✓ **Fire Performance**
 - ASTM E84 Class A rated
 - Low flame spread, minimal smoke development
- ✓ **Water Response**
 - Dissolves within seconds when exposed to water
 - Does not obstruct sprinkler discharge

Installation & Adaptability

- ✓ Installs into horizontal roof containment and vertical containment to ceiling
- ✓ Panels can be cut onsite using scissors or a blade
- ✓ Easily fits around cable trays, pipes, and overhead obstructions
- ✓ Patch kits available for resizing or field modifications
- ✓ Ideal for new builds and retrofit installations

Certifications & Compliance

- ✓ ASTM E84 Class A Fire Rating
- ✓ EPA Safe Materials
- ✓ UL-tested lighting components (AFF)
- ✓ AHJ-reviewed and approved in multiple jurisdictions