

- **Blanking Panels and Brush Strips:** Seal unused rack spaces and cable entry points to prevent bypass airflow, maintaining thermal separation between hot and cold aisles .
- **Cable Pass-Through Kits and Gaskets:** Hybrid brush and EPDM membrane designs allow cables to pass through containment areas while preserving airflow control .
- **Custom Die-Cut Foam and Gaskets:** Available in various densities, colors, and adhesive backings, these components can be tailored to specific rack dimensions and airflow requirements .

Benefits of Flame-Retardant CAC Components

- **Enhanced Cooling Efficiency:** Proper sealing reduces conditioned air loss, lowering power usage effectiveness (PUE) .
- **Fire Safety Compliance:** UL-rated and flame-retardant materials protect personnel and equipment in case of fire .
- **Flexibility for OEMs:** Components can be produced in small batches, with fast sampling and custom packaging for system integrators and resellers .

Key Considerations

When selecting OEM cold aisle flame-retardant solutions:

- **UL and ASTM Ratings:** Ensure materials meet UL 94 V-0 or equivalent fire safety standards.
- **Material Type:** Choose between EPDM, silicone, or neoprene based on temperature tolerance, compressibility, and environmental conditions.
- **Custom Fit:** For optimal airflow management, components should be tailored to rack dimensions and cable routing requirements.
- **Integration with Existing Systems:** Components should be compatible with current racks and containment setups, including hot/cold aisle configurations . By combining UL-rated flame-retardant materials with custom OEM components, data centers can achieve safer, more energy-efficient cold aisle containment while maintaining flexibility for future upgrades and high-density deployments.

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Cool Shield™ containment offers state-of-the-art hot and cold aisle containment solutions designed to maximize data center

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TRAX hot aisle / cold aisle data center curtains are the industry leading low cost containment solutions.

APPLICATION PROFILE

APPLICATION PROFILE HOT AISLE / COLD AISLE FOR DATA CENTER APPLICATIONS ARE YOUR FIRE PROTECTION

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Cold Aisle Containment isolates the cold air, preventing it from mixing with the hot air. To enclose the cold aisle between adjustment

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Here at The Supply Cache, we have all of the fire-resistant cold-weather gear with certifications based on ARC-flash and NFPA 70E

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Fire Block is an east-to-use, environmentally friendly fire retardant that prevents the spread of flames and stops smoke from happening.

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