Polargy PolarPlexTM

Cabinet Supported Drop-Away Panel

**PART 1 - GENERAL**

* 1. SUMMARY

1. This specification is for the PolarPlex™ Drop-Away Roof Panel.  
   1. SYSTEM DESCRIPTION
2. The Drop-Away Panel is used in a horizontal deployment for closed top containment architectures. The panels can be used for both hot and cold aisle containment. The panels are designed for use underneath fire suppression systems if approved by the local Authority Having Jurisdiction.

1.3 DESIGN REQUIREMENTS

1. Drop-Away Panels shall be individual aluminum framed panels with inserts designed for use below sprinkler heads. Panel inserts shall be UL listed for use below sprinkler heads and shall be Class A fire-rated material.
2. Drop-Away Roof Panels shall be individual panels that are tool-lessly and easily removable so that there is ready access to the space above the panels and equipment racks.

1.4 WARRANTY

1. Drop-Away Panels shall be warranted against defects in materials and workmanship for a one-year period for the first 12 months after initial start-up or 18 months after ship date, whichever occurs first.

**PART 2 – PRODUCTS**

2.1 MANUFACTURERS

1. Basis of Design: Product specified is the PolarPlexTM Drop-Away Panel as manufactured by Polargy, Inc.
2. Substitutions: Proposed substitutions must be approved prior to bidding.

2.2 GENERAL

1. The drop-away panels shall be hot or cold aisle containment roof panels supported by a Unistrut/retaining angle track installed along the top of the equipment racks (or directly to the equipment cabinets if rack independence is not needed.)

2.3 STRUCTURE

1. Drop Away Roof Panels shall be designed for use below sprinkler heads and the panel insert material shall be a heat sensitive uPVC material that loses its rigidity at a temperature of 135°F so that it falls from its frame at that temperature. Panel inserts shall be UL listed for use below sprinkler heads. Panel inserts shall rest loosely in a captured frame and shall not be pinched by panel frame so that they can drop freely.
2. Drop Away Roof Panels shall be prefabricated in order to minimize installation time.
3. Drop-Away Roof Panels shall be individual panels with a lightweight aluminum frame with a 1” tall profile. Each panel shall be installed and removed easily without tools to allow for easy cleaning and maintenance access.

**PART 3 – EXECUTION**

3.1 PREPARATION

1. Cabinets to which panels are attached should be level and square and properly secured to the floor.
2. Examine and clean cabinet tops to receive panels.
3. Any discrepancies need to be corrected prior to installation of the panels.

3.2 INSTALLATION

1. Install Drop-Away Panels in accordance with manufacturer's shop drawings and written instructions.
2. Panels shall rest in and be captured by the Unistrut/L-extrusion structure along the tops of the equipment racks. If rack independence is not needed then the panels must be secured directly to the tops of the equipment cabinets with reclosable fastener.
3. Installers shall provide appropriate installation hardware as defined by local code or the authority having jurisdiction (AHJ).

END OF SECTION