



PART 1 - GENERAL

1.1 Summary

A. Vertical Containment Panels used for either Hot or Cold Aisle Containment.

1.2 System Description

A. Vertical Panels.

1.3 Design Requirements

A. Vertical Panels shall be individual aluminum framed panels with twin-wall polycarbonate inserts. Panel twin-wall inserts shall be Class A fire-rated material.

B. Vertical Panels shall be individual panels that are easily removable so that the panels can be removed for maintenance access to the space above the equipment racks and for cleaning of the panels.

1.4 Warranty

A. 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

A. Basis of Design: Product specified is the PolarPlex™ Panel as manufactured by Polargy, Inc.

B. Substitutions: Proposed substitutions must be approved prior to bidding.

2.2 General

A. The vertical panels shall be supported by a Unistrut/F-bracket track installed along the top of the equipment racks.



Polargy PolarPlex™ Containment Panels

Product Specification

SECTION
27-11-16

B. The vertical panels shall be hot or cold aisle containment panels supported by a Unistrut/F-bracket track installed along the top of the equipment racks (or the F-bracket shall be directly secured to the equipment cabinets if rack independence is not needed).

2.3 Structure

A. Vertical panels shall be easily removable and held at the bottom in the F-bracket/Unistrut track that runs along the tops of the equipment racks. For closed top architectures vertical panels shall be supported at the top with a ceiling trim piece and 3M Dual-Lock. For open top architectures, the vertical panels shall be aligned at their tops with U-channel pieces that connect adjacent panels.

B. Vertical Panels shall be prefabricated in order to minimize installation time.

C. Vertical Panels shall be individual panels no wider than 72". Panels shall be aluminum-framed panels with 8mm thick twin-wall polycarbonate inserts. Panel frame members shall be lightweight anodized aluminum with a 0.640" tall profile for SlimLine or 1" tall profile for Standard. Each panel shall be installed and removed easily to allow for easy cleaning and maintenance access.

PART 3 – EXECUTION

3.1 Preparation

A. Cabinets to which panels are attached should be level and square and properly secured to the floor.

3.2 Installation

A. Install Panels in accordance with manufacturer's shop drawings and written instructions.

B. Panels shall be supported in the F-Bracket/Unistrut track on the bottom. If rack independence is not needed then the F-Bracket must be secured directly to the tops of the equipment cabinets.

C. Installers shall provide appropriate installation hardware as defined by local code or the authority having jurisdiction (AHJ).

3.3 Adjusting and cleaning

A. Clean panels with mild soap and water solution as needed.