Polargy PolarPlexTM

P2 Swing Door Specification

**PART 1 - GENERAL**

* 1. SUMMARY
1. This specification is for the PolarPlex™P2 Swing Door.

	1. SYSTEM DESCRIPTION
2. The Swing Door is designed for data center aisle containment, either hot or cold. The aisle end swing doors fit standard 42U racks and 48” aisles. Doors consists of a hollow metal tube frame with the door leafs attached via pivot hinges.

1.3 DESIGN REQUIREMENTS

1. Provide a swing door at the end of each HACS/CACS. The swing door should be a dual door, center opening.

1.4 WARRANTY

1. The P2 Swing Door 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 P2 Swing Door as manufactured by Polargy, Inc.
2. Substitutions: Proposed substitutions must be approved prior to bidding.

2.2 SWING DOORS

1. Door shall be center opening and swing outward.
2. Door frame shall consist of 2” square metal tubes connected with a header.
3. The frame outward dimension will be 52” wide and 83” tall. Inside clear door dimension to be 48” wide and 79” tall.
4. The header assembly shall contain the catch latches, which will be push to close and pull to open. Door operation will be via flush mounted pulls.
5. Door leaf will consist of translucent panel comprising over 75% of each door opening.
6. Door frames shall be provisioned for multiple attachment methods. These shall comprise of direct to equipment racks, both shorter and taller than door frames; secured to standard 1 5/8” metal channel framing via side and top support flanges.
7. Vertical posts shall have 2” base plate for securing to floor. This base plate shall face outward to not impede doorway or adjacent floor tiles.
8. Vertical posts will be provisioned with threaded pems to allow for alternative mounting options, as field conditions require.
9. Door shall be supported off frame with pivot hinges and without a threshold.
10. There shall be no brush gaskets at the bottom of the door to allow for pressure relief or make up air when airflow falls out of balance.

**PART 3 – EXECUTION**

3.1 PREPARATION

1. Examine sub-surfaces to receive work.
2. Cabinets to which doors are attached should be level and square and properly secured to the floor.
3. Any discrepancies need to be corrected prior to installation of the door.

3.2 INSTALLATION

1. Install aisle containment doors using the manufacturer’s installation instructions.
2. Doors must be secured to the frame of the equipment cabinets (or alternative structure) and to the floor.
3. Level and align doorframe prior to permanently fastening.
4. Installers shall provide appropriate floor installation hardware as defined by local code or the authority having jurisdiction (AHJ). Additional installation brackets may be required.

3.3 ADJUSTING AND CLEANING

1. Adjust doors for smooth operation, and, when closed, the door shall be centered on the aisle ends.
2. Clean doors with mild soap and water solution.

END OF SECTION