



Containment Design Checklist

Select one item in each section and subsection.

Type

- Hot Aisle Containment
- Cold Aisle Containment

Topology

- Cabinet Supported
 - Vertical Panels
 - Roof Panels
- Ceiling Supported (specify ceiling type –Gordon/Heavy Duty w/ Threaded Boss, Strut Grid, Suspended Grid)
 - Vertical Panels
 - Roof Panels
- Floor Supported
 - Vertical Panels
 - Roof Panels

Door Type

- Sliding with Auto Close & Hold Open Feature
- Swing

Door Attachment

- Direct to Cabinets (verify cabinets at aisle ends in plan for Day 1)
- Rack Independent

Above Cabinet/Upper Level Panels

- Fixed
- Operable with Removable/Sliding/Swing Panels



Containment Design Checklist

Rack Level/Lower Level Panels (refer to these as “InFill Panels”)

- None/NA
- Fixed
- Removable without Tools

Gap Seal Type Between Cabinet Top and Upper Level Containment

- None/NA
- Brush Grommet (specify height) _____
- Vinyl Flap (specify height) _____

Gap Seal Type Between Floor and Bottom of Cabinet

- None/NA
- Air Dam Skirt
- Air Dam Foam

Cable Trays and Power Busways

- Trays and Busways DO NOT Penetrate Containment
- Trays and Busways DO Penetrate Containment
 - No Sealing of Openings
 - Seal Openings with Brush Grommet
 - Seal Openings with Vinyl Flap
 - Seal Openings with Air Dam Foam



Containment Design Checklist

PDU's or RPPs at End of Aisle

- No
- Yes
 - Position PDU/RPP 4" off racks to make space for sliding door to attach to racks
 - Attach Doors to PDU/RPP (Specify PDU/RPP height/width)
 - Attach Doors to Supports (Strut) independently of PDU/RPP

Panel and Door Insert Materials

- Twinwall Polycarbonate (Meets NFPA requirements, E84 Class A)
 - 8mm (most commonly used)
 - 6mm
- Solid Polycarbonate (Meets NFPA requirements, E84 Class A)
 - 0.125" (most commonly used)
 - 0.25"
- Solid Acrylic (please don't allow this)
 - 0.125"
 - 0.25"
- FM4910 Compliant Material (for Factory Mutual Global clients)
 - 0.125"
 - 0.25"

Unistrut Type

- Galvanized
- Green Painted
- Black Powder Coated



Containment Design Checklist

Collision Avoidance

- Cable Trays Modeled to Include All thread and Unistrut?
 - Yes
 - No
- Busway near Containment Leaves Enough Room for Plugs/Cord Bend?
 - Yes
 - No
- Does Containment Cross Over Light Fixtures?
 - Yes
 - No
- Sprinkler Heads Positioned To Consider Containment?
 - Yes
 - No
- Trays/Ducting/Conduit Interfere with Access to Install Containment?
 - Yes
 - No

Sequencing & Schedule

- Field Measurements Required before Containment Fabrication?
 - Yes
 - No
- Ceiling Installed Prior to Containment?
 - Yes
 - No
- Cabinets Installed Prior to Containment?
 - Yes
 - No
- Cable Trays and Busways Installed Prior to Containment?
 - Yes
 - No



Containment Design Checklist

Commissioning

- Does Containment Need to be Complete for Pressure Differential Testing?
 - Yes (are InFill panel quantities specified?)
 - No
- Do Cabinets Need Full Blanking Prior to Commissioning?
 - Yes (are blanking panels quantities specified?)
 - No

Drawing Completeness

- Rack, Ceiling, and Containment Elevations Shown Clearly
 - Yes
 - No
- Plan View Shows Outer Dimensions of Containment
 - Yes
 - No
- Drawings Indicate Hot and Cold Aisles
 - Yes
 - No
- Racks, IRCs, RPP/PDUs that are in rows; Type and Specs Noted
 - Yes
 - No

For reference specifications see www.polargy.com. For questions and design assistance call 888-816-8338.