



## **SPECIFICATION GUIDELINE FOR E-SERIES ENCLOSURES**

**840E2936**

### **Full Specification**

#### **General**

#### **84" High X 29" Wide X 36" Deep**

The enclosure must be Great Lakes product model #840E2936

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The enclosure shall be UL listed to UL60950-1 (Standard for Information Technology and Communications Equipment, Cabinet, Enclosure and Rack Systems.) and mounting rails will be 19" EIA 310-D compliant. The enclosure shall be constructed of #16 Ga. CRS (cold rolled steel) utilizing a fully welded frame design with five bends in the corner post for added strength. Weight capacity 1500 lbs on levelers, bolted to the floor or on heavy duty casters.

Dimensions shall be 84" H x 29" W x 36"D with the option of Plexiglas doors, mesh doors, perimeter vented doors or solid doors, locking lift-off side panels (solid, vented) and standard options for a removable solid, vented or fan top panels all made out of #16 Ga. CRS. The mounting rails shall have 44 rack mount units (RMU) #12 Ga. Rails shall be infinitely adjustable and be held by #14 Ga. CRS horizontal mounting brackets. Networking of multiple enclosures must be possible through the use of no tool hardware. Manufacturer shall ship enclosure completely assembled including accessories such as cable management, shelves, & power strips.

Manufacturer must be ISO 9001:2000 registered.

**Floor Mounting** The base frame shall have three separate floor mounting locations in the bottom. Threaded #10 Ga HRS ½-13 hole to accommodate casters, threaded #10 Ga HRS ½-13 hole to accommodate leveling glides and ¾" floor anchoring hole.

**Rail Mounting** Mounting rails will be 19" EIA 310-D compliant Rails shall be 12 Ga. Steel, universal metric six (M6) cage nut with optional #10-32 tapped, infinitely adjustable with 37 rack mount unit (RMU) markings the complete length of the rail. RMU markings to start at bottom and count up. Mounting rails shall be TRC style "True Rail Count" This certifies that the numbers of RMU's are true and all are accessible within the door opening.

Rails shall be multi-vendor server compliant and have round pass through holes with cable management tie down slots both vertical and horizontal. Maximum front to rear rail spacing shall be cabinet depth minus 2 inches.

**Grounding** The base frame must have #10-32 x 1.5" copper plated grounding studs located in the top two (2) and bottom one (1). All doors must include a minimum of two #10-32 x .5" copper plated grounding studs located at the top and bottom of the door. All side panels must include a #10-32 x .5" copper plated grounding studs located at the bottom of the side panel.

**Cable Management** The base frame must accommodate a vertical and horizontal cable management-lacing bar that is fully adjustable in the enclosure and allow for cable bundles in excess of 5". All 19" rack mount cable management shall be installed before shipment.

**Cable Access** The top panel shall be removable with "Horse Shoe Knock-outs" for cables entering the top of the cabinet. Frame top must also have four (4) 1.75" x 3.76" knock-outs for additional cable access. Base frame must have a cable access opening (minimum 11.75" x 14.75") in the bottom of the base unit. Base to have four (4) x #10-32 blind threaded inserts for optional bottom gasketed panels such as brush grommet, solid or a filtered panel to cover the opening. Filtered bottom panel must use no more than 2" of space measured from the bottom of the cabinet.

Bottom rear shall have an opening approximately 11"W x 3.5"D for additional cable access. This access shall have a minimum of three cable clips. Optional cover shall be available to close this entry point.

**Doors** All doors must fit flush with the base and swing open 180<sup>0</sup>. All doors must have three field reversible hinges using only the hardware provided. Door shall have lockable swing handles with options for both key locking and electronic passkey. Base unit must have gasketing for the doors. Door will also have the option of easy lift-off or captured hinge to prevent lift-off.

**Side Panels** The base frame must be able to accommodate locking, quick release, lift off side panels. The base unit must be able to accommodate a locking, swing out side panel without modification to the unit. Base unit must have gasketing for the side panels. The side panels should be flush with the base unit.

**Top Panels** Top panels shall be removable with “Horse Shoe –Knock-outs”. Options shall be solid, vented, three-fan low profile assembly and ten-inch or multiple 10” fan assembly. Horse Shoe tops allow for removal without disconnecting cables.

**Power** The base frame must have the ability to have vertical power strips mounted in each corner.

**Hardware** Enclosure shall ship with package of cage nut hardware. (M6 Cage nut & Screws)

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