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Product Guide Specification

Specifier Notes: This product guide specification is written according to the Construction Specifications Institute (CSI) 3-Part Format, including *MasterFormat*, *SectionFormat*, and *PageFormat*, as described in *The Project Resource Manual—CSI Manual of Practice*.

The section must be carefully reviewed and edited by the Architect or Engineer to meet the requirements of the project and local building code. Coordinate this section with other specification sections and the Drawings. Delete all “Specifier Notes” when editing this section.

Section numbers and titles are from *MasterFormat* 2004 Edition.

SECTION 27 11 16

EQUIPMENT ENCLOSURES

Specifier Notes: This section covers Middle Atlantic Products, Inc. MRK Series Enclosure. Consult Middle Atlantic Products for assistance in editing this section for the specific application.

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Equipment enclosures.

1.2 RELATED SECTIONS

Specifier Notes: List sections with work directly related to this section.

- A.

1.3 REFERENCES

Specifier Notes: List standards referenced in this section, complete with designations and titles. This article does not require compliance with standards, but is merely a listing of those used.

- A. ASCE 7 – Minimum Design Loads for Buildings and Other Structures.

- B. CBC – California Building Code.
- C. EIA/TIA 310D – Cabinets, Racks, Panels and Associated Equipment.
- D. IBC – International Building Code.
- E. ISO 9001– Quality Management Systems – Requirements.
- F. ISO 14001 – Environmental Management System – Requirements.
- G. NFPA 70 – National Electrical Code (NEC).
- H. NFPA 5000 – Building Construction and Safety Code.
- I. OSPHD - Office of Statewide Health Planning and Development
- K. UBC – Uniform Building Code.
- L. UL – Underwriters Laboratories.
- M. GREENGUARD Indoor Air Quality for Children and Schools

1.4 SUBMITTALS

- A. Comply with Section 01 33 00 – Submittal Procedures.
- B. Product Data: Submit manufacturer’s product data, including options and accessories.
- C. Warranty: Submit manufacturer’s standard warranty.

1.5 QUALITY ASSURANCE

- A. Manufacturer’s Qualifications: ISO 9001 and ISO 14001 registered company.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Delivery: Deliver materials to site in manufacturer’s original, unopened containers and packaging, with labels clearly identifying product name and manufacturer.
- B. Storage: Store materials in clean, dry area indoors in accordance with manufacturer’s instructions.
- C. Handling: Protect materials during handling and installation to prevent damage.

1.7 WARRANTY

- A. Warranty Period: Product lifetime.

PART 2 PRODUCTS

2.1 MANUFACTURER

- A. Middle Atlantic Products, Inc. Phone (973) 839-1011. Fax (973) 839-1976. Website middleatlantic.com. E-mail info@middleatlantic.com.

2.2 EQUIPMENT ENCLOSURES

- A. Equipment Enclosures: BGR-SA Series Enclosure.

Specifier Notes: Specify equipment rack model number. Consult Middle Atlantic Products product information for available models.

1. Model: BGR-__SA-_____ .
2. Type: 19-inch gangable equipment rack.
3. Compliance:
 - a. EIA/TIA 310D.
 - b. Seismic Certified: Seismic certified to 1997 UBC and 2007 & 2010 CBC Seismic Zone 4 or Seismic Design Category (SDC) "D" and 2006, 2009 & 2012 IBC, 2003 IBC, 2002 ASCE Standard 7, ASCE 7-05 (2005 Edition) & ASCE 7-10 (2010 Edition) and 2006 & 2009 NFPA 5000 Seismic Use Group III lateral force requirements for protecting 1,175 pounds of essential equipment in upper floor installations when used with optional BGR-Z4/BGR-ISO-Z4 seismic floor anchor brackets with Ip value of 1.5.
4. UL Listed: US and Canada.

Specifier Notes: Specify overall and useable dimensions.

5. Overall Dimensions:
 - a. Height: _____ inches (_____ mm).
 - b. Width: _____ inches (_____ mm).
 - c. Depth: _____ inches (_____ mm).
6. Useable Dimensions:
 - a. Height: _____ rackspaces.
 - b. Depth: _____ inches (_____ mm).
7. Construction: Fully welded.
8. Weight Capacity: 3,000 pounds UL Listed, 12,000 pounds static.
10. Finish of Structural Elements: Black textured powder coat.
11. Rackrail:
 - a. Two pairs of fully adjustable, 11-gauge steel rackrail with tapped 10-32 mounting holes in universal EIA spacing.
 - b. Finish: Black e-coat.
 - c. Rackspaces: Numbered.
12. Rear Door: Solid, keylocked, selectively vented with mounting provisions for 4-1/2" fans.
13. Removable Rear Knockout Panel:
 - a. 1/2-inch, 5/8-inch, 1-inch, and 1-1/4-inch electrical knockouts and 1/2" "D" UHF/VHF knockouts on 1-5/16-inch x 7-1/2-inch laser knockout plate installed in top and bottom.

14. Grounding and Bonding Stud: 1/4-20 by 1-inch threaded, installed in top and base, allows installation to conform to NEC.

2.3 OPTIONS

Specifier Notes: Specify required options. Delete options not required. Consult Middle Atlantic Products for more information.

- A. Front Doors: [solid] [perforated] [plexi] [curved solid] [curved plexi]
- B. Vented Rear Doors: Cable entry
- C. Removable Keylocked Side Panels: With recessed lift handles.
- D. Top Panels: steel, [solid] [accepts 10-inch fan] [accepts four or eight 4-1/2-inch fans] [vented]
- E. Integrated Fan Tops:
 - 1. Proportional speed, thermostatic fan control.
 - 2. Fans: [276 CFM] [550 CFM]
- F. Caster Base:
 - 1. Standard Caster Base:
 - a. Adds 1 inch to overall height.
 - b. Total Weight Capacity: 1,100 pounds.
- H. Lacer Strip: 11-gauge steel, heavily perforated, 77 inches long.
- I. Additional Rail Kit: 11-gauge steel, 10-32 threaded, in pairs, includes hardware.
- J. Seismic compliancy floor anchor kit and isolated floor anchor kit.
- L. Wrinkle touch-up paint.
- M. Ganging hardware.
- N. Copper buss bar.
- P. Leveling Feet:
 - 1. 3/8-inch threaded steel, adjustable from top or bottom.
 - 2. Adds 1/4 inch to 1 inch to rack overall height.
- Q. Inner platform base.
- R. Removable side panels.
- T. Door latch.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Examine areas to receive equipment enclosures.
- B. Notify Architect of conditions that would adversely affect installation or subsequent use.
- C. Do not begin installation until unacceptable conditions are corrected.

3.2 INSTALLATION

- A. Install equipment enclosures in accordance with manufacturer's instructions at locations indicated on the Drawings.
- B. Install equipment enclosures plumb, level, and square.

3.3 ADJUSTING

- A. Adjust operating hardware to operate smoothly without binding.
- B. Repair minor damages to finish in accordance with manufacturer's instructions and as approved by Architect.

3.4 PROTECTION

- A. Protect installed equipment enclosures from damage during construction.

END OF SECTION