

Ross Specialized Racks are designed to accommodate specific storage requirements for a host of unique products. A variety of column, arm and shelf configurations are available to provide your customer with a safe and organized storage solution. Regardless of the style, all of our specialized racks offer the following benefits:

- Maximized Storage Space: Customers can potentially quadruple capacity in their existing space.
- Efficient, organized storage: Bulky, oversized items such as building materials, furniture, appliances and textiles are easy to store and retrieve.
- Flexibility: Adjustable / Stackable shelf designs offer highly flexible storage space.
- Lower Operating Costs: Wide open rows make loading and unloading product by forklift easy, saving valuable time.
- Reduced Product Damage: Inventory is protected from material handling equipment.
- Greater Worker Safety: Rack storage minimizes workers' risk of falls and injuries.

Tell us the size and weight of materials and how much space is available. Ross engineers will design a system to meet your unique requirements.

SECTION 105629.04

SPECIALIZED STORAGE RACKS

PART 1 - GENERAL

1.1 SUMMARY

- A. Work Included: Provide labor, materials and equipment necessary to complete the work of this Section, including but not limited to the following:
1. Specialized rack systems.

1.2 SUBMITTALS

- A. Product Data: Submit manufacturer's product data.
- B. Shop Drawings: Submit shop drawings including the following:
1. Standard and custom rack designs.
 2. Proposed layout, details of construction, anchorage and relationship to other parts of the work.
- C. Warranty: Submit executed copy of manufacturer's standard limited warranty.

1.3 QUALITY ASSURANCE

- A. Installer: Minimum 2 year documented history of installing similar rack systems acceptable to the manufacturer. Installer shall accept responsibility for all field verifications.
- B. Manufacturing Facility: Certified to ISO 9001: 2015.
- C. Applicable Standards, Testing and Certifications:
1. ANSI/AISC 360, Specification for Structural Steel Buildings.
 2. AWS D1.1/D1.1M, Structural Welding Code – Steel.

3. ASTM A572, Standard Specification for High-Strength Low-Alloy Columbium-Vanadium Structural Steel.
4. ASTM A36, Standard Specification for Carbon Structural Steel.
5. ASTM A325, Standard Specification for Structural Bolts, Steel.
6. ASTM A992, Standard Specification for Structural Steel Shapes.

1.4 DELIVERY, STORAGE AND HANDLING

- A. Store materials in a location protected from the weather, humidity, temperature variation, dirt and dust, or other contaminants.

1.5 WARRANTY

- A. Warranty: Provide manufacturer's standard limited one-year warranty.

PART 2 - PRODUCTS

2.1 MANUFACTURER

- A. Basis-of-Design Manufacturer: Ross Technology Corporation, 104 North Maple Avenue, Leola, PA 17540. Toll-free 800-345-8170. www.rosstechnology.com. No substitutions.

2.2 SPECIALIZED RACK SYSTEMS

- A. Specialized Rack Systems: As manufactured by Ross Technology Corporation complying with the following:
 1. Standard Features:
 - a. Rack system engineered to AISC standards, typically exceeding Rack Manufacturer's Institute (RMI).
 - b. Arms and columns hot rolled structural steel manufactured from 50 KSI material.
 - c. Structural I-beam construction.
 - d. Shelving or arm configurations to accommodate the specific material being stored.
 - e. Structural bolt-together brace systems.
 - f. Modular design for ease of expansion.
 2. Finish (Standard): Factory-applied powder-coated finish, color selected from manufacturer's standard colors.
 3. Finish (Optional): Hot-dip galvanized coating, ASTM A123.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates and site conditions for compliance with requirements for installation tolerances and other conditions affecting performance. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. Install products in strict accordance with manufacturer's instructions and approved submittals. Locate rack systems level, plumb, and in proper alignment with adjacent work. Provide installation method suitable for substrate and project conditions.
- B. Protect adjacent areas against damage; repair or patch damaged areas. Restore damaged finishes so no evidence remains of corrective work.

3.3 FIELD QUALITY CONTROL

- A. Inspect installed racks for proper installation as recommended by manufacturer.
- B. Establish a semi-annual maintenance program to inspect structural components and welds for damage caused by overloading or forklift equipment, to tighten or replace missing bolts and anchors, and to confirm racks are plumb.

3.4 ADJUSTING AND CLEANING

- A. Clean exposed surfaces using methods acceptable to the manufacturer which will not damage finish.

END OF SECTION

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