

SECTION 01 43 00

MATERIAL AND EQUIPMENT

---

**Notes: This Section is intended to include basic requirements governing material and equipment, transportation, handling, storage and protection and procedures for consideration of substitutions.**

**When provisions of General Conditions are adequate, edit this text to avoid repetition.**

---

PART 1 GENERAL

1.01 REQUIREMENTS INCLUDED

- A. Products.
- B. Transportation and Handling.
- C. Storage and Protection.
- D. Product Options.
- E. Product List.
- F. Substitutions.

G. Product Demonstrations

1.02 RELATED REQUIREMENTS

- A. General Terms and Conditions.
- B. Section 01 11 00 - Summary of Work.
- C. Section 01 42 00 - Reference Standards.
- D. Section 01 45 00 - Contract Quality Control. Submittal of manufacturer's certificates.
- E. Section 01 78 36 - Warranties and Guarantees.

1.03 PRODUCTS

- A. Products include material, equipment and systems.
  - B. Comply with Specifications and referenced standards as minimum requirements.
  - C. Components required to be supplied in quantity within a Specification section shall be the same and shall be inter-changeable.
- 

**Paragraph 'D' below is appropriate for work in an existing building.**

---

- D. Do not use materials and equipment removed from existing structure, except as specifically required, or allowed, by Contract Documents.
-

#### 1.04 TRANSPORTATION AND HANDLING

- A. Transport products by methods to avoid product damage. Deliver materials to job site in manufacturer's original unopened containers clearly labeled with manufacturer's name, brand designation and reference specification.
- B. Provide equipment and personnel to handle products by methods to prevent damage. Handle products in such a manner as to prevent breakage of containers and damage of any kind.
- C. Promptly inspect shipments to assure that products comply with requirements, quantities are correct, and products are undamaged. Damage sustained by products in transit to job site shall be repaired to the satisfaction of the Professional. If damage sustained while transporting products to job site is non-repairable, the products shall be replaced with new ones at no cost to Owner.

#### 1.05 STORAGE AND PROTECTION

- A. Store products in accordance with manufacturer's instructions, with seals and labels intact and legible. Exposed metal surfaces, not provided with manufacturer specific storage instructions, shall be protected with a light oil or silicone coating to prevent rust while in storage. Store sensitive products in weather tight enclosures; maintain within temperature and humidity ranges required by manufacturer's instructions.
- B. For exterior storage of fabricated products, place on sloped supports above ground. Cover products subject to deterioration with impervious sheet covering; provide ventilation to avoid condensation.
- C. Store loose granular materials on solid surfaces in a well-drained area; prevent mixing with foreign matter.
- D. Arrange storage to provide access for inspection. Periodically inspect to assure products are undamaged, and are maintained under required conditions.

#### 1.06 ENCLOSED STORAGE

- A. Store products, subject to damage by the elements, in substantial weather tight enclosures.
- B. Maintain temperature and humidity within ranges stated in manufacturer's instructions.
- C. Provide humidity control and ventilation for sensitive products as required by manufacturer's instructions.
- D. Store unpacked and loose products on shelves, in bins, or in neat groups of like items.

#### 1.07 EXTERIOR STORAGE

- A. Provide substantial platforms, blocking, or skids, to support fabricated products above ground; slope to provide drainage. Protect products from soiling, staining, and corrosion.
- B. For products subject to discoloration or deterioration from exposure to the elements, cover with impervious sheet material. Provide ventilation to avoid condensation.
- C. Store loose granular materials on clean, solid surfaces such as pavement, or on rigid sheet materials, to prevent mixing with foreign matter.
- D. Provide surface drainage to prevent erosion and ponding of water.
- E. Prevent mixing of refuse or chemically injurious materials or liquids.

1.08 MAINTENANCE OF STORAGE

- A. Periodically inspect stored products on a regular basis.
- B. Verify that storage facilities comply with manufacturer's product storage requirements.
- C. Verify that stored products exposed to the elements are not adversely affected; that any weathering of finishes is acceptable under requirements of Contract Documents.

---

**Specify the following if required for sensitive equipment in long-term storage. Expand to specify particular requirements, or specify in individual Sections.**

---

1.09 MAINTENANCE OF EQUIPMENT STORAGE

- A. For mechanical and electrical equipment in long-term storage, provide manufacturer's service instructions to accompany each item, with notice of enclosed instructions shown on exterior of package.
- B. Service equipment on a regularly scheduled basis, maintaining a log of services; submit as a record document.

1.10 PRODUCT OPTIONS/SUBSTITUTIONS

- A. Product Options/Substitutions shall be in accordance with the requirements of the General Conditions.

PART 2 PRODUCTS

Not Used

PART 3 EXECUTION

Not Used

END OF SECTION