

SECTION 01 60 00

PRODUCT REQUIREMENTS

PART 1 GENERAL

1.01 SUMMARY

- A. Section Includes:
 - 1. Products
 - 2. Transportation and Handling
 - 3. Storage and Protection
 - 4. General Product Requirements
- B. Related Sections
 - 1. Document 00 72 53 - General Conditions (Design-Build)
 - 2. Section 01 33 00 - Submittal Procedures
 - 3. Section 01 45 16 - Field Quality Control Procedures

1.02 DEFINITIONS

- A. Products: Items purchased for incorporating into the Work, whether purchased for Project or taken from previously purchased stock. The term "product" includes the terms "material," "equipment," "system," and terms of similar intent.
 - 1. Named Products: Items identified by manufacturer's product name, including make or model number or other designation shown or listed in manufacturer's published product literature that is current as of date of the Contract Documents.
 - 2. New Products: Items that have not previously been incorporated into another project or facility, except that products consisting of recycled-content materials are allowed, unless explicitly stated otherwise. Products salvaged or recycled from other projects are not considered new products.

1.03 QUALITY ASSURANCE

- A. Do not use materials and equipment removed from existing premises, except as specifically permitted by the Contract Documents.
- B. Provide interchangeable components of the same manufacturer, for components being replaced.
- C. Compatibility of Options: If Subcontractor is given option of selecting between two or more products for use on Project, product selected shall be compatible with products previously selected, even if previously selected products were also options.
 - 1. Each Subcontractor is responsible for providing products and construction methods compatible with products and construction methods of other Subcontractors.
 - 2. If a dispute arises between Subcontractors over concurrently selectable but incompatible products, AOR will determine which products shall be used.

1.04 DELIVERY, STORAGE, AND HANDLING

- A. General:
 - 1. Deliver, store, and handle products using means and methods that will prevent damage, deterioration, and loss, including theft. Comply with manufacturer's written instructions.
- B. Delivery and Handling:

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1. Schedule delivery to minimize long-term storage at Project site and to prevent overcrowding of construction spaces.
2. Deliver products to Project site in an undamaged condition in manufacturer's original sealed container or other packaging system, complete with labels and instructions for handling, storing, unpacking, protecting, and installing.
3. Coordinate delivery with installation time to ensure minimum holding time for items that are flammable, hazardous, easily damaged, or sensitive to deterioration, theft, and other losses.
4. Promptly inspect shipments to ensure that products comply with the Contract Documents, quantities are correct, products are undamaged, and properly protected.
5. Provide equipment and personnel to handle Products by methods to prevent soiling, disfigurement, or damage.

C. Storage and Protection

1. Store and protect Products in accordance with manufacturers' instructions, with seals and labels intact and legible.
 - a. Comply with product manufacturer's written instructions for temperature, humidity, ventilation, and weather-protection requirements for storage.
2. Protect stored products from damage and liquids from freezing.
3. Store sensitive Products in weather tight, climate controlled enclosures.
4. For exterior storage of fabricated Products, place on sloped supports, above ground.
5. Cover Products subject to deterioration with impervious sheet covering. Provide ventilation to avoid condensation or potential degradation of Product.
6. Store loose granular materials on solid flat surfaces in a well-drained area. Prevent mixing with foreign matter.
7. Store cementitious products and materials on elevated platforms.
8. Store foam plastic from exposure to sunlight, except to extent necessary for period of installation and concealment.
9. Provide equipment and personnel to store Products by methods to prevent soiling, disfigurement, or damage.
10. Arrange storage of Products to permit access for inspection. Periodically inspect to verify Products are undamaged and are maintained in acceptable condition.
11. Provide bonded off-site storage and protection when site does not permit on-site storage or protection.

1.05 PRODUCT WARRANTIES

- A. Warranties specified in other Sections shall be in addition to, and run concurrent with, other warranties required by the Contract Documents. Manufacturer's disclaimers and limitations on product warranties do not relieve Subcontractor of obligations under requirements of the Contract Documents.
1. Manufacturer's Warranty: Preprinted written warranty published by individual manufacturer for a particular product and specifically endorsed by manufacturer to Owner.
 2. Special Warranty: Written warranty required by or incorporated into the Contract Documents, either to extend time limit provided by manufacturer's warranty or to provide more rights for Owner.

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- B. Special Warranties: Prepare a written document that contains appropriate terms and identification, ready for execution. Submit a draft for approval before final execution.
 - 1. Manufacturer's Standard Form: Modified to include Project-specific information and properly executed.
 - 2. Specified Form: When specified forms are included with the Specifications, prepare a written document using appropriate form properly executed.
 - 3. Refer to Divisions 02 through 49 Sections for specific content requirements and particular requirements for submitting special warranties.
- C. Correction Period: Refer to the General Conditions for requirements for Correction of the Work and Correction Period.

PART 2 PRODUCTS

2.01 PRODUCT SELECTION PROCEDURES

- A. General Product Requirements: Provide products that comply with the Contract Documents, that are undamaged and, unless otherwise indicated, that are new at time of installation.
 - 1. Visual Matching Specification: Where Specifications require matching an established Sample, select a product that complies with requirements and matches AOR's sample. AOR's decision will be final on whether a proposed product matches.

PART 3 EXECUTION

3.01 ORDERING OF EQUIPMENT

- A. Each Subcontractor is solely responsible for ordering material and equipment to allow a reasonable delivery time from the manufacturer. The responsible Subcontractor will be considered responsible for all penalties incurred due to delays caused by his lack of action to order products on time. Substitutions from manufacturers not listed in the specification will not be considered for approval when the specified products are not ordered reasonably on time.

3.02 EQUIPMENT AND OPENING PROTECTION

- A. In addition to the provisions and stipulations of "Standard Conditions of Contract for Construction", each Subcontractor and Sub-Subcontractor shall provide various types of protection as follows:
 - 1. Protect equipment from welding and cutting spatters with baffles and spatter blankets.
 - 2. Protect equipment and finished surfaces from paint droppings, insulation adhesive, etc., by the use of drop cloths.
- B. All equipment to be stored at the site with openings, etc., to be covered to exclude dust and moisture. All stockpiled pipe or conduit shall be placed on dunnage and protected from weather and from entry of foreign material.
- C. Conduit and construction openings and excavations required for Work to be covered when Work is not in progress as follows:
 - 1. Cover wall and ceiling openings with plywood, or canvas covered flashing.
 - 2. Cover floor openings and excavations with structural material of adequate strength to support traffic.
- D. All motors, fans and other rotating equipment shall be stored at the site with openings, bearings, etc., covered to exclude dust and moisture.
- E. Duct, pipe and construction openings and excavations required for Fire Protection, Plumbing, or HVAC Work shall be covered when work is not in progress as follows:

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1. Cover duct openings with canvas.
2. Cap pipe openings with fittings or plugs.
3. Cover roof and ceiling openings with plywood, or canvas covered framing.

3.03 HOISTING AND RIGGING

- A. Hoisting and rigging to be provided by the Subcontractor.
- B. All equipment and materials required is to be received, unloaded, hoisted to proper elevation and moved into place by the Subcontractor.

3.04 MATERIAL SAFETY DATA SHEETS

- A. Two copies of Material Safety Data Sheets shall be furnished to the University and shall be posted at the site and available upon request of Subcontractor employees, government officials and University personnel.

END OF SECTION 01 60 00

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