

SECTION 01600

MATERIALS AND EQUIPMENT

A. Products:

1. "Products" are items purchased for incorporation in the Work, whether purchased for the Project or taken from previously purchased stock.
 - a. "Named Products" are items identified by manufacturer's product name, including make or model designation indicated in the manufacturer's product literature.
 - b. Unless otherwise noted, "Named Products" are intended to specify a quality standard and are not intended to restrict competition.

B. Materials:

1. "Materials" are products that are shaped, cut, worked, mixed, finished, refined or otherwise fabricated, processed, or installed to form a part of the Work.
 - a. "Volatile Organic Compounds" (VOCs) and their emissions are controlled under the New York Codes, Rules and Regulations of the State of New York. Architectural Surface Coatings must comply with 6 NYCRR Part 205. Coating Lines must comply with 6 NYCRR Part 228.
 - 1) For the purpose of the location, Nassau, Suffolk, Westchester and Rockland Counties fall under the compliance rules of the New York City metropolitan area.
 - 2) All coatings and coated products to be used in the Work shall comply with the appropriate rules and regulations.

C. Equipment:

1. "Equipment" is a product with operational parts, whether motorized or manually operated, that requires service connections such as wiring or piping.

D. Product List:

1. Products required for the Project are included in each section of the Specifications, and in the Submittals List in Section 01300. Prepare a schedule in tabular form showing each product. Include manufacturer's name and proprietary product names for each item. Coordinate the product schedule with the Contractor's Construction Schedule and Schedule of Submittals.
2. Within 60 days of commencement of Work, submit 3 copies of the completed product list schedule. Provide an explanation for omissions, and variations from Contract requirements. Partial lists shall be submitted earlier for those needing immediate approval so as not to delay the ordering to meet the Construction Schedule.

3. BNL will respond within 2 weeks of receipt of the Schedule. No response in this time constitutes no objection to products or manufacturers, but does not waive the requirement that products must comply with Contract Documents. BNL's response will include a list of unacceptable products.

E. Source Limitations:

1. To the fullest extent possible, provide products of the same kind, from a single source.
2. When the Contractor has the option of selecting between two or more products, the product selected shall be compatible with products previously selected.

F. Substitutions:

1. Unless otherwise specified, substitutions may be made for items specified when substitutions are approved equals. Submit substitutions for approval in accordance with Section 01300 "Submittals", and Section 01630 "Product Substitutions".

G. Nameplates:

1. Except for required labels and operating data, do not attach manufacturer's nameplates or trademarks on surfaces exposed to view in occupied spaces or on the exterior.
 - a. Equipment Nameplates: Provide a permanent nameplate on each item of service-connected or power-operated equipment. Locate on an inconspicuous accessible surface. The nameplate shall contain the following information and essential operating data:
 - 1) Name of product and manufacturer.
 - 2) Model and serial number.
 - 3) Capacity.
 - 4) Speed.
 - 5) Ratings.

H. Product Delivery, Storage, and Handling:

1. Deliver, store and handle products in accordance with manufacturer's recommendations, using methods that will prevent damage, deterioration and loss.
 - a. Schedule delivery to minimize long-term storage and prevent overcrowding construction spaces. Coordinate with installation to ensure minimum holding time for items that are flammable, hazardous, easily damaged, or sensitive to deterioration, theft and other losses.
 - b. Deliver products in manufacturer's original sealed container or packaging system, complete with labels and instructions for handling, storing, unpacking, protecting and installing.

- c. Inspect products on delivery to ensure compliance with Contract Documents, and to ensure that products are undamaged and properly protected.
- d. Store products to facilitate inspection and measurement of quantity or counting of units. Store heavy materials away from the structure in a manner that will not endanger supporting construction.
- e. Store products subject to damage by the elements above ground, under cover in a weathertight enclosure, with ventilation adequate to prevent condensation. Maintain temperature and humidity within range required by manufacturer's instructions.

I. Product Selection:

- 1. Provide products that comply with the Contract Documents, are undamaged and unused at installation.
- 2. Provide products complete with all accessories, trim, finish, safety guards and other devices and details needed for a complete installation and for the intended use and effect.
 - a. Standard Products: Where available, provide standard products of types that have been produced and used successfully in similar situations on other projects.
 - b. Proprietary Specification Requirements: Where only a single product or manufacturer is acceptable, provide the product indicated. No substitutions will be permitted.
 - c. Semiproprietary Specification Requirements: Where products are specified by name, accompanied by the term "or equal", comply with provisions for "substitutions" to obtain approval for use of an unnamed product.
 - d. Non-Proprietary Specifications: When Specifications list products or manufacturers that are available and may be used, but do not restrict the Contractor to use of these products only, the names and products establish the level of quality. The Contractor may propose any product that complies with Contract requirements. Comply with provisions for "substitutions" to obtain approval for use of an unnamed product.
 - e. Descriptive Specification Requirements: Where Specifications describe a product, listing characteristics required, with or without use of a brand name, provide a product that provides the characteristics and otherwise complies with requirements.
 - 1) Performance Specification Requirements: Where Specifications require compliance with performance requirements, provide products that comply and are recommended for the application. Manufacturer's recommendations may be contained in product literature, or by certification of performance.
 - 2) Compliance with Standards: Where Specifications require compliance with a standard, select a product that complies with the standard specified.

- 3) Visual Matching: Where Specifications require matching a Sample, the BNL decision on whether a proposed product matches is final. Where no product matches and complies with other requirements, comply with provisions for "substitutions" for selection of a matching product in another category.
- 4) Visual Selection: Where requirements include the phrase "...as selected from manufacturer's standard colors, patterns, textures..." or a similar phrase, select a product that complies with other requirements. BNL will select color, pattern and texture from the product line selected.

J. Installation of Products:

1. Comply with manufacturer's instructions and recommendations for installation of products. Anchor each product securely in place, accurately located and aligned with other Work. Clean exposed surfaces and protect to ensure freedom from damage and deterioration at time of Substantial Completion.

END OF SECTION 01600

Revision History	
Date	Rev. No.
02-19-09	0