

PART 1 - GENERAL

<u>1.1 SECTION INCLUDES</u>	<ul style="list-style-type: none">.1 Product quality, availability, storage, handling, protection, and transportation..2 Product substitution procedures..3 Manufacturer's instructions..4 Quality of Work, coordination and fastenings..5 Existing facilities.
<u>1.2 INTENT</u>	<ul style="list-style-type: none">.1 The intent of this section is to outline minimal acceptable product requirements. In the event of conflict with specified products requirement elsewhere in the Contract Documents, technical specification shall govern.
<u>1.3 RELATED SECTIONS</u>	<ul style="list-style-type: none">.1 Section 01 33 00 - Submittal Procedures..2 Section 01 73 00 - Execution.
<u>1.4 REFERENCE STANDARDS</u>	<ul style="list-style-type: none">.1 Within text of each specifications section, reference may be made to reference standards..2 Conform to these reference standards, in whole or in part as specifically requested in specifications..3 If there is question as to whether any product or system is in conformance with applicable standards, Departmental Representative reserves right to have such products or systems tested to prove or disprove conformance..4 Cost for such testing will be born by the Departmental Representative in event of conformance with Contract Documents or by Contractor in event of non-conformance..5 Conform to latest date of issue of referenced standards in effect on date of submission of Tenders, except where specific date or issue is specifically noted.

1.5 QUALITY

- .1 Products, materials, equipment and articles (referred to as products throughout specifications) incorporated in Work shall be new, not damaged or defective, and of best quality (compatible with specifications) for purpose intended. If requested, furnish evidence as to type, source and quality of products provided.
- .2 Defective products, whenever identified prior to completion of Work, will be rejected, regardless of previous inspections. Inspection does not relieve responsibility, but is precaution against oversight or error. Remove and replace defective products at own expense and be responsible for delays and expenses caused by rejection.
- .3 Unless otherwise indicated in specifications, maintain uniformity of manufacture for any particular or like item throughout building.
- .4 Permanent labels, trademarks and nameplates on products are not acceptable in prominent locations, except where required for operating instructions, or when located in mechanical or electrical rooms.
- .5 Ensure Quality of Work is of highest standard, executed by workers experienced and skilled in respective duties for which they are employed. Immediately notify Departmental Representative if required Work is such as to make it impractical to produce required results.
- .6 Do not employ anyone unskilled in their required duties. Departmental Representative reserves right to require dismissal from site, workers deemed incompetent or careless.

1.6 AVAILABILITY

- .1 Immediately upon signing Contract, review product delivery requirements and anticipate foreseeable supply delays for any items. If delays in supply of products are foreseeable, notify Departmental Representative of such, in order that substitutions or other remedial action may be authorized in ample time to prevent delay in performance of Work.
- .2 In event of failure to notify Departmental Representative at commencement of Work and should it subsequently appear that Work may be delayed for such reason, Departmental Representative reserves right to substitute more readily available products of similar character, at no increase in Contract Price or Contract Time.

1.7 STORAGE,
HANDLING AND
PROTECTION

- .1 Handle and store products in manner to prevent damage, adulteration, deterioration and soiling and in accordance with manufacturer's instructions when applicable.
- .2 Store packaged or bundled products in original and undamaged condition with manufacturer's seal and labels intact. Do not remove from packaging or bundling until required in Work.
- .3 Store products subject to damage from weather in weatherproof enclosures.
- .4 Remove and replace damaged products at own expense and to satisfaction of Departmental Representative.
- .5 Touch-up damaged factory finished surfaces to Departmental Representative's satisfaction. Use touch-up materials to match original. Do not paint over name plates. Replace touched-up products if finish is subsequently deemed unacceptable by Departmental Representative.
- .6 Refer to manufacturer's written instructions and technical specifications for specific requirements on materials, products and equipment.

1.8 TRANSPORTATION

- .1 Pay costs of transportation of products required in performance of Work.

1.9 PRODUCT
SUBSTITUTION
PROCEDURES

- .1 Where any particular brand of manufactured article is described or specified, it is to be regarded as a standard, but another brand equally as good may be accepted, at the discretion of the Departmental Representative, unless specified otherwise.
- .2 Requests for substitution during Tender Period will not be considered. No change in the Specification will be made prior to the acceptance of the Tenders.
- .3 If the Contractor wishes to make a substitution after the Contract has been awarded, make application, in writing, otherwise the Contractor will be held to the terms of the Specifications. No extra cost will be allowed for approved equivalents.
- .4 When the Departmental Representative is prepared to permit the use of a brand of manufactured article as an alternative to any specified brand of manufactured article even though such alternative may not be equivalent to that specified, it may be used at the

1.9 PRODUCT
SUBSTITUTION
PROCEDURES
(Cont'd)

- .4 (Cont'd)
discretion of the Departmental Representative but only after price adjustments have been negotiated and approved by the Departmental Representative.
- .5 If the alternative requires modifications, adjustments or additions to the specified works, submit to the Departmental Representative, drawings and specifications for these modifications, adjustments or additions in the same detail as presented in the Contract. Approval in principle by the Departmental Representative of these modifications, adjustments or additions in no way relieves the Contractor of obligations or liabilities under the Contract to provide for finished piece of work complete and operational in all essentials.
- .6 Requests for substitution during execution of the Work will only be considered when submitted in sufficient time to permit proper evaluation by the Departmental Representative.
- .7 When requesting Departmental Representative review of a proposed Product substitution, demonstrate that the proposed substitute will perform equally as well or better as the specified product.
- .8 Accompany each request for substitution with a list of properties for both the specified product and the proposed substitute. No request for substitution will be considered unless made in this way.
- .9 The Departmental Representative will record the time required to evaluate equivalents and alternates proposed by the Contractor including making changes to the Contract Documents occasioned thereby. Whether or not the Departmental Representative accepts a proposed substitute, reimburse the Departmental Representative for the charges of the Departmental Representative for evaluating any proposed substitute.
- .10 The clause "or approved equivalent", or other similar clauses, will not be construed as an invitation to submit requests for substitution or to unilaterally substitute products in place of the specified products and systems.
- .11 The Departmental Representative is under no obligation to consider product or system substitutions recommended by the Contractor.
- .12 No change or substitution can be made without the written consent of the Departmental Representative.

1.9 PRODUCT SUBSTITUTION PROCEDURES (Cont'd)	.13	Remove and replace substitutions incorporated in to the Work without the Departmental Representative's written approval.
1.10 MANUFACTURER'S INSTRUCTIONS	.1	Unless otherwise indicated in specifications, install or erect products in accordance with manufacturer's instructions. Do not rely on labels or enclosures provided with products. Obtain written instructions directly from manufacturers.
	.2	Notify Departmental Representative in writing, of conflicts between specifications and manufacturer's instructions, so that Departmental Representative may establish course of action.
	.3	Improper installation or erection of products, due to failure in complying with these requirements, authorizes Departmental Representative to require removal and re-installation at no increase in Contract Price or Contract Time.
1.11 CO-ORDINATION	.1	Ensure cooperation of workers in laying out Work. Maintain efficient and continuous supervision.
	.2	Be responsible for coordination and placement of openings, sleeves and accessories.
1.12 REMEDIAL WORK	.1	Refer to Section 01 73 00.
	.2	Perform remedial work required to repair or replace parts or portions of Work identified as defective or unacceptable. Coordinate adjacent affected Work as required.
	.3	Perform remedial work by specialists familiar with materials affected. Perform in a manner to neither damage nor put at risk any portion of Work.
1.13 FASTENINGS - EQUIPMENT	.1	Use fastenings of standard commercial sizes and patterns with material and finish suitable for service.
	.2	Use heavy hexagon heads, semi-finished unless otherwise specified. Use No. 304 stainless steel for exterior areas.

- 1.13 FASTENINGS - .3 Bolts may not project more than one diameter beyond
EQUIPMENT nuts.
(Cont'd)
- .4 Use plain type washers on equipment, sheet metal and
soft gasket lock type washers where vibrations occur.
Use resilient washers with stainless steel.