**AMETCO®**

 **GUIDE SPECIFICATIONS**

 **INTRODUCTION**

**AMETCO® MANUFACTURING CORPORATION**

\*\*\*\*\* Ametco® Manufacturing Corporation manufacturers several types of ornamental metal fencing, railing systems, and sun shades from galvanized steel, stainless steel, and aluminum. In addition, many basic construction materials are provided such as perforated metal and plastic panels, expanded metal panels, wire cloth, steel and aluminum bar gratings, safety gratings, stair treads, and ladder rungs. These can be used for custom-designed shade canopies, play structures, signs, equipment screens, stairs, platforms, tables, benches, trash receptacles, sculptures, and other custom fabrications.

**GUIDE SPECIFICATIONS**

The following guide specifications have been prepared to assist design professionals in incorporating Ametco® fencing and other products into a competitive bid construction project.

 Section 05 53 14 - Steel Bar Gratings

 Section 05 53 15 - Aluminum Bar Gratings

 Section 05 73 10 - Open Grille Steel Railing System

 Section 05 73 11 - Aluminum Railings

 Section 05 75 10 - Perforated Metal Panels

 Section 05 75 11 - Expanded Metal

 Section 05 75 12 - Wire Cloth

 Section 06 60 10 - Perforated Plastic Panels

 Section 10 71 14 - Metal Sun Shades

 Section 32 31 16 - Ornamental Welded Wire Fences and Gates

 Section 32 31 20 - Ornamental Steel Fences and Gates

 Section 32 31 21 - Aluminum Louver Fences and Gates

 Section 32 31 22 - Stainless Steel Louver Fences and Gates

 Section 32 31 24 - Aluminum Fences and Gates

The above numbers and titles are based on classifications and numbering contained in MasterFormat - Master List of Numbers and Titles for the Construction Industry, 2014 Update, published jointly by the Construction Specifications Institute (CSI) and Construction Specifications Canada (CSC). MasterFormat is a uniform system for organizing specification sections and other information in construction project manuals. This industry standard allows for the quick and easy retrieval of construction information.

**SECTION ORGANIZATION**

The Ametco® guide specifications have been organized according to SectionFormat – The Recommended Format for Construction Specification Sections, 2008 Edition, published jointly by CSI and CCS. SectionFormat provides a uniform approach to organizing specification text by placing information in three standard parts:

 **PART 1 - GENERAL** Describes administrative and procedural requirements.

 **PART 2 - PRODUCTS** Describes materials, products, and accessories to be incorporated into the construction project.

 **PART 3 - EXECUTION** Describes how the products will be installed at the construction site.

**WRITING STYLE**

The Ametco® guide specifications have been written using the writing principles and techniques contained in the Construction Specifications Practice Guide published by CSI. The goal is to develop specifications that are clear, correct, complete, and concise. Within the Ametco® guide specifications, the imperative mood has been used for instructions for providing, fabricating, and installing products. It is understood that the specifications are addressed to the contractor who is legally responsible to the owner for constructing the project. Hence, the imperative mood is used to indicate actions to be performed by the contractor. Following is an example of a requirement in the indicative mood and as a more direct imperative instruction.

 **Indicative mood:**

 Contractor shall attach plastic caps to tubular steel posts.

 **Imperative mood:**

 Attach plastic caps to tubular steel posts.

**STREAMLINING**

Unnecessary words such as "the", "an", and "a" have been eliminated. Use of "for", "of", and other prepositions has been minimized. Streamlining has also been used to reduce verbiage in the guide specifications. This technique places the subject first and hence provides key words for quick reference. The words "shall be" are included by inference where a colon (:) is used. For example,

 **Standard phrasing:**

 The steel tubing used for fabricating the ornamental steel fencing shall be steel shapes complying with the requirements of ASTM A500 for Grade B.

 **Streamline phrasing:**

 Steel tubing: ASTM A500, Grade B.

**REFERENCES**

Throughout the guide specifications, references are made to other specification sections that might be contained in the project manual. These references are presented as examples and coordination reminders. For each project, these references will need to be revised to reflect actual sections being used. The referenced specification section numbers and titles have been derived from the CSI/CSC MasterFormat. Samples of references to be verified are:

 Submit in accordance with Section 01 33 00 - Submittal Procedures: . . .

 Coordinate fence and gate installation with provision of gate operator specified in Section 32 31 11 - Gate Operators.

**EDITING**

The Ametco® guide specifications will need to be edited by the specifier for a specific project and to reflect the products, options, and applications being used. **The specifications are on CD in the front cover of the binder.** The guide specifications have been written so that most editing can be accomplished by deleting unnecessary requirements and options. Depending on project requirements, some additional information will need to be added by the specifier. Options are indicated by [ ]. Notes to assist the specifier in selecting options and editing the guide specifications are printed in bold and indicated with  **\*\*\*\*\***. For final editing, all brackets and notes will need to be deleted from the guide specs. For example:

 **\*\*\*\*\* Include the following paragraph if hinged swinging gates are required. \*\*\*\*\***

 Type: Hinged swinging [single] [double] gate.

**METRIC EQUIVALENTS**

Notes within the guide specifications list U.S. Imperial dimensions, followed by metric equivalents derived from System International Metric (SI) in parentheses. Within the specification text, Imperial dimensions are presented first in brackets followed by SI metric equivalents also in brackets. Depending of project requirements, either the Imperial or the SI metric equivalents will need to be deleted. For example,

 **\*\*\*\*\* Spacing for 80 percent visual blocking is 2-1/16 inches (52 mm) and for 100 percent blocking is 1-13/16 inches (46 mm).**

 Louver bars: Extruded aluminum louver bars, [1-31/32 inches] [50 mm] wide, spaced at [[1-13/16] [2-1/16] inches] [[46] [52] mm].

 **COMMENTS**

These guide specifications have been developed to assist the design professional in incorporating Ametco® Manufacturing Corporation ornamental metal railing fences and railings into a construction project. Hopefully, this guide will reduce the time and effort required to prepare a project specification. Your questions, comments, suggestions, and additional information requests will be appreciated and useful in preparing future revisions. Please respond to Ametco® Manufacturing Corporation by mail, telephone, fax, or email.

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