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Product Guide Specification

Specifier Notes: This product guide specification is written according to the Construction Specifications Institute (CSI) 3-Part Format, including *MasterFormat*, *SectionFormat*, and *PageFormat*, as described in *The CSI Construction Specifications Practice Guide*.

This section must be carefully reviewed and edited by the Architect to meet the requirements of the project and local building code. Coordinate this section with other specification sections and the Drawings. Delete all "Specifier Notes" after editing this section.

Section numbers and titles are from *MasterFormat 2016 update*.

SECTION 12 63 23

STADIUM AND ARENA SEATS

Specifier Notes: This section covers Sturdisteel "Sturdi Series 6000" aluminum stadium chairs. Consult Sturdisteel for assistance in editing this section for the specific application.

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Aluminum stadium chairs.

1.2 REFERENCE STANDARDS

Specifier Notes: List reference standards used elsewhere in this section, complete with designations and titles.

- A. AAMA 2603 – Voluntary Specification, Performance Requirements and Test Procedures for Pigmented Organic Coatings on Aluminum Extrusions and Panels.
- B. ASTM A 307 – Standard Specification for Carbon Steel Bolts, Studs, and Threaded Rod 60 000 PSI Tensile Strength.

1.3 PREINSTALLATION MEETINGS

Specifier Notes: Edit preinstallation meetings as necessary. Delete if not required.

- A. Convene preinstallation meeting [1 week] [2 weeks] before start of installation of aluminum stadium chairs.
- B. Require attendance of parties directly affecting work of this section, including Contractor, Architect, installer, and manufacturer's representative.
- C. Review materials, surface preparation, installation, adjusting, cleaning, protection, and coordination with other work.

1.4 SUBMITTALS

Specifier Notes: Edit submittal requirements as necessary. Delete submittals not required.

- A. Comply with Section 01 33 00 – Submittal Procedures.
- B. Product Data: Submit manufacturer's product data, including installation instructions.
- C. Shop Drawings: Submit manufacturer's shop drawings, including plans, elevations, sections, and details, indicating dimensions, tolerances, materials, components, fabrication, fasteners, hardware, finish, options, and accessories.
- D. Samples: Submit manufacturer's color samples for selection.
- E. Manufacturer's Certification: Submit manufacturer's certification that materials comply with specified requirements and are suitable for intended application.
- F. Manufacturer's Project References: Submit manufacturer's list of successfully completed aluminum stadium chair projects, including project name and location, name of architect, and type and quantity of chairs furnished.
- G. Installer's Project References: Submit installer's list of successfully completed aluminum stadium chair projects, including project name and location, name of architect, and type and quantity of chairs installed.
- H. Care and Maintenance Instructions: Submit manufacturer's care and maintenance instructions, including cleaning and repairing instructions, at project closeout.
- I. Warranty Documentation: Submit manufacturer's standard warranty.

1.5 QUALITY ASSURANCE

- A. Manufacturer's Qualifications: Manufacturer regularly engaged, for past 10 years, in manufacture of aluminum stadium chairs of similar type to that specified.
- B. Installer's Qualifications:

1. Installer regularly engaged, for past 5 years, in installation of aluminum stadium chairs of similar type to that specified.
2. Employ persons trained for installation of aluminum stadium chairs.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Delivery Requirements: Deliver materials to site in manufacturer's original, unopened containers and packaging, with labels clearly identifying product name and manufacturer.
- B. Storage and Handling Requirements:
1. Store and handle materials in accordance with manufacturer's instructions.
 2. Keep materials in manufacturer's original, unopened containers and packaging until installation.
 3. Store materials in clean, dry area indoors.
 4. Protect materials and finish during storage, handling, and installation to prevent damage.

1.7 WARRANTY

- A. Warranty Period: 1 year.

PART 2 PRODUCTS

2.1 MANUFACTURER

- A. Manufacturer: Sturdisteel, PO Box 2655, Waco, Texas 76702. Toll Free 800-433-3116. Phone 254-666-5155. Fax 254-666-4472. Website www.sturdisteel.com. E-mail info@sturdisteel.com.
- B. Substitutions: Not permitted.

2.2 STADIUM CHAIRS

- A. Aluminum Stadium Chairs: "Sturdi Series 6000".
1. Chair Seats:
 - a. Type: Manual or self-rising, maintenance-free seat.
 - b. Material: Extruded aluminum, alloy 6063-T6.
 - c. Finish: Clear anodized 204R1, AA-M10C22A31, Class II.
 2. Chair Backs:
 - a. Material: Extruded aluminum, alloy 6063-T6.

Specifier Notes: Specify clear anodized or powder-coat finish for chair backs.

- b. Finish: [Clear anodized 204R1, AA-M10C22A31, Class II] [Powder coat, AAMA 2603, color selected by Architect from manufacturer's standard colors].

Specifier Notes: Specify center-to-center chair spacing.

3. Chair Spacing: [18 inches] [19 inches] [20 inches] [21 inches] [22 inches] [23 inches] [24 inches] center-to-center.

4. Armrests:
 - a. Material: Aluminum, alloy 6063-T6.
 - b. Finish: Clear anodized 204R1, AA-M10C22A31, Class II.
 5. Vertical Posts:
 - a. Material: Aluminum, alloy 6061-T6.
 - b. Finish: Clear anodized 204R1, AA-M10C22A31, Class II.
 6. Die-Cast Pivot Block and Seat Bottom Frame:
 - a. Material: Aluminum, alloy 360.
 - b. Finish: Mill.
- B. Hardware:
1. Bolts and Nuts: Steel, ASTM A 307, galvanized or cadmium plated.
 2. Hold-Down Clip Assembly: Aluminum, alloy 6061-T6.

Specifier Notes: Specify chair mounting and mounting fasteners.

- C. Chair Mounting: [Riser mount] [Floor mount] [Indicated on the Drawings].
1. Mounting Fasteners: [_____] [Indicated on the Drawings].
- D. Number Plates:
1. Material: Plastic.
 2. Size: 1-5/8 inches by 2-3/4 inches.
 3. Color: Brushed silver background, black characters.
 4. Attachment to Chair Backs: 1/8-inch aluminum pop rivets.
 5. Number chairs as indicated on the Drawings.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Examine areas and surfaces to receive aluminum stadium chairs.
- B. Verify surfaces to support aluminum stadium chairs are clean, dry, flat, plumb, level, square, stable, rigid, and capable of supporting the weight.
- C. Notify Architect of conditions that would adversely affect installation or subsequent use.
- D. Do not begin surface preparation or installation until unacceptable conditions are corrected.

3.2 SURFACE PREPARATION

- A. Prepare surfaces to receive aluminum stadium chairs in accordance with manufacturer's instructions.
- B. Remove dirt, dust, debris, oil, grease, and other surface contaminants which could adversely affect installation of stadium chairs.

3.3 INSTALLATION

- A. Install aluminum stadium chairs in accordance with manufacturer's instructions at locations indicated on the Drawings.
- B. Install aluminum stadium chairs plumb, level, straight, and square.
- C. Anchor aluminum stadium chairs securely in place to supports.

3.4 ADJUSTING

- A. Inspect completed aluminum stadium chairs and make necessary adjustments to ensure proper installation.
- B. Repair minor damages to finish in accordance with manufacturer's instructions and as approved by Architect.
- C. Remove and replace with new material, damaged components that cannot be successfully repaired, as determined by Architect.

3.5 CLEANING

- A. Clean aluminum stadium chairs promptly after installation in accordance with manufacturer's instructions.
- B. Do not use harsh cleaning materials or methods that could damage finish.

3.6 PROTECTION

Specifier Notes: Include the following sentence for indoor installation.

- A. Protect installed aluminum stadium chairs from damage during construction.

Specifier Notes: Include the following sentence for outdoor installation.

- B. Protect installed aluminum stadium chairs to ensure that, except for normal weathering, chairs will be without damage or deterioration at time of Substantial Completion.

END OF SECTION