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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 "Cardinal Series 3000" stadium chairs. Consult Sturdisteel for assistance in editing this section for the specific application.

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Stadium chairs.

1.2 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 samples of stadium chair colors.
 - 1. Sample Size: Minimum 1-1/2 inches by 1-1/2 inches.
- E. Care and Maintenance Instructions: Submit manufacturer's care and maintenance instructions, including cleaning and repairing instructions, at project closeout.
- F. Warranty Documentation: Submit manufacturer's standard warranty.

1.3 QUALITY ASSURANCE

- A. Manufacturer's Qualifications: Manufacturer regularly engaged, for past 5 years, in manufacture of stadium chairs of similar type to that specified.
- B. Steel Fabricator's Qualifications: Perform steel fabrication in an AISC certified facility.
- C. Installer's Qualifications:
 - 1. Installer regularly engaged, for past 5 years, in installation of stadium chairs of similar type to that specified.
 - 2. Employ persons trained for installation of stadium chairs.
- D. Welder's Qualifications: AWS certified within past 12 months for each type of weld required.

1.4 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.

1.5 WARRANTY

- A. Warranty Period:
 - 1. Materials and Workmanship: 1 year.
 - 2. Plastic: 5 years, against fading due to exposure to the elements.

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. Stadium Chairs: "Cardinal Series 3000".
 - 1. Chair Seat: Self-rising, gravity-tip, maintenance-free seat.
 - 2. Chair Back: Slight flexibility for comfort.

Specifier Notes: Specify center-to-center chair spacing. Coordinate chair spacing with specified armrest option. Consult Sturdisteel for more information.

- B. Chair Spacing: [18 inches] [19 inches] [20 inches] [21 inches] [22 inches] center-to-center.
- C. Armrests:

Specifier Notes: Specify ONE of the following TWO armrest options.

- 1. Standard Armrests: Formed steel strap fabricated as integral part of stanchion unit.
- 2. Armrests with Cup holder:
 - a. Armrest Support: Formed steel strap fabricated as integral part of stanchion unit.
 - b. Armrests: Caddy Products, Inc. "Slim Fit" plastic cup holder armrests.

Specifier Notes: Specify chair mounting and mounting fasteners.

- D. Chair Mounting: [Riser mount] [Floor mount] [Indicated on the Drawings].
 - 1. Mounting Fasteners: [_____] [Indicated on the Drawings].
- E. Support Stanchion:
 - 1. Main Support Stanchion: Fabricated from 1-inch by 1-1/2-inch by 14-gauge mild steel welded tube with welded support strap fabricated from 3/16-inch mild steel flat bar formed to required shape.
 - 2. Pivot Pin: Fabricated from 1/2-inch-diameter mild steel bar, welded to strap in required position.
- F. Seat Support Ring: Fabricated from 1-inch by 1/2-inch by 14-gauge mild steel welded tube, 1/2-inch-diameter mild steel round bar with 1/2-inch-diameter mild steel round bar counterbalance/stop, and two 3/4-inch-diameter by 14-gauge pivot tubes, welded in required positions.
- G. Welding: Components fully welded.

H. Steel Finish:

Specifier Notes: Specify ONE of the following THREE finish systems. If powder coat is specified, specify color.

1. Powder Coated after Fabrication:
 - a. First Coat: Seventh generation cathodic epoxy e-coat.
 - b. Second Coat: Powder coat.
 - c. Powder Coat Color: [Black] [Hammered Antique Gray].
2. Hot-dip galvanized after fabrication.
3. Hot-dip galvanized after fabrication, then powder coated.
 - a. Powder Coat Color: [Black] [Hammered Antique Gray].

I. Plastic Moldings:

1. Material: Polyethylene, with antistatic and UV protection.
2. Process: Individually injection molded.
3. Fully color compounded.

Specifier Notes: Specify color of plastic moldings. Consult Sturdisteel for availability of custom colors.

4. Color: [Ball Park Green] [Black] [Deep Purple] [Flag Blue] [Grey] [Kelly Green] [Light Maroon] [Maroon] [Navy Blue] [Orange] [Purple] [Red] [_____].

J. Attachments:

1. Chair Seat: Attached to seat support ring with 3/16-inch large-flange aluminum rivets.
2. Chair Back: Attached to framework with 1/4-inch-diameter stainless steel bolts with washers and elastic locknuts.

K. 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 to receive stadium chairs.
- B. Verify surfaces to support 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 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 stadium chairs in accordance with manufacturer's instructions at locations indicated on the Drawings.
- B. Install stadium chairs plumb, level, straight, and square.
- C. Anchor stadium chairs securely in place to supports.
- D. Repair minor damages to finish in accordance with manufacturer's instructions and as approved by Architect.
- E. Remove and replace with new material, damaged components that cannot be successfully repaired, as determined by Architect.

3.4 CLEANING

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

3.5 PROTECTION

Specifier Notes: Include the following sentence for indoor installation.

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

Specifier Notes: Include the following sentence for outdoor installation.

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

END OF SECTION