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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 based on *MasterFormat 2018 Edition*.

SECTION 13 34 16.63

METAL PRESS BOXES

Specifier Notes: This section covers Sturdisteel metal press boxes independently supported and connected to rear of grandstands and bleachers with aisle access. Consult Sturdisteel for assistance in editing this section for the specific application.

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Metal press boxes.

1.2 RELATED REQUIREMENTS

Specifier Notes: Edit the following list of related sections as necessary. Limit the list to sections with specific information that the reader might expect to find in this section but is specified elsewhere.

- A. Section [13 34 16.13] – [I-Beam Grandstands] [Leg Truss Grandstands].

- B. Section [13 34 16.53] – [Angle-Frame Elevated Bleachers] [Angle-Frame Non-Elevated Bleachers].
- C. Division 26 – Electrical: Electrical service line to metal press boxes.

1.3 REFERENCE STANDARDS

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

- A. NFPA 70 – National Electrical Code (NEC).

1.4 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 metal press boxes.
- B. Require attendance of parties directly affecting work of this section, including Contractor, Architect, installer, and manufacturer’s representative.
- C. Review materials, installation, adjusting, protection, and coordination with other work.

1.5 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 charts of exterior and interior finishes.
- E. Manufacturer’s Certification: Submit manufacturer’s certification that materials comply with specified requirements and are suitable for intended application.
- F. Design Data: Submit manufacturer’s design data, including structural calculations, signed and sealed by qualified professional engineer registered in state of the installation.
- G. Manufacturer’s Project References: Submit manufacturer’s list of successfully completed metal press box projects, including project name and location, name of architect, and type and quantity of metal press boxes furnished.

- H. Installer's Project References: Submit installer's list of successfully completed metal press box projects, including project name and location, name of architect, and type and quantity of metal press boxes installed.
- I. Warranty Documentation: Submit manufacturer's standard warranty.

1.6 QUALITY ASSURANCE

- A. Manufacturer's Qualifications: Manufacturer regularly engaged, for past 10 years, in design and manufacture of metal press boxes of similar type to that specified.
- B. Installer's Qualifications:
 - 1. Installer regularly engaged, for past 5 years, in installation of metal press boxes of similar type to that specified.
 - 2. Employ persons trained and experienced for installation of metal press boxes.
- C. Welder's Qualifications: AWS certified within past 12 months for each type of weld required.

1.7 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. Do not store materials directly on ground.
 - 4. Protect materials and finish during storage, handling, and installation to prevent damage.

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. www.sturdisteel.com. info@sturdisteel.com.
- B. Substitutions: Not permitted.

2.2 METAL PRESS BOXES

Specifier Notes: Edit the following sentence as necessary.

- A. Metal Press Boxes: Independently supported and connected to rear of [grandstands] [bleachers] with aisle access.
- B. Dimensions:

Specifier Notes: Specify metal press box dimensions. Consult Sturdisteel for available metal press box sizes.

1. Width: _____.
2. Length _____.

C. Support Structure: Length of landing at each end of metal press box with aluminum decking and guard rails.

Specifier Notes: Specify length of landing at each end of metal press box.

1. Left End: _____.
2. Right End: _____.

D. Floor:

1. Subfloor: Galvanized steel frame, C10 x 15.3 channels at front and rear running entire length of metal press box with W10 x 12 beam cross members bolted at 6'-0" on center and 26-gauge belly pan.
2. Floor Covering: Mill-finished aluminum interlocking plank.
3. Insulation: Kraft-faced fiberglass building insulation, R-19, 6 inches thick in floor, batt or roll, Owens-Corning Fiberglass Corp. or equal.

E. Walls:

1. Framing: 4-inch by 4-inch by 11-gauge steel square tubing and 4-inch by 1-5/8-inch by 14-gauge steel cees at 24 inches on center.
2. Exterior Siding: Mueller or MBCI 26-gauge prefinished steel rib R-panels over 5/8-inch exterior-grade plywood.

Specifier Notes: Specify color of exterior siding from manufacturer's color chart.

- a. Color: _____.
3. Insulation: Kraft-faced fiberglass building insulation, R-15, 4 inches thick in walls, batt or roll, Owens-Corning Fiberglass Corp. or equal.
4. Interior Paneling: National Gypsum "Gold Bond Brand Durasan" prefinished gypsum board, 5/8 inch.
 - a. Color: Harvest Cotton.
5. Wall Base: Flexco "Base 2000" 4-inch thermoplastic rubber wall base.
 - a. Color: Chocolate.

Specifier Notes: Interior partitions are optional. Delete if not required.

6. Interior Partitions:
 - a. Framing: 4-inch by 4-inch by 11-gauge steel square tubing and 4-inch by 1-5/8-inch by 14-gauge steel cees at 24 inches on center.
 - b. Paneling: 5/8-inch National Gypsum "Gold Bond Brand Durasan" prefinished gypsum board.
 - 1) Color: Harvest Cotton.

F. Roof:

1. Roof Joists: 4-inch by 4-inch by 11-gauge square tubing at 6'-0" centers maximum and 4-inch by 1-1/2-inch by 14-gauge steel cees at 18-inch centers maximum.
2. Roof Deck: 1/8-inch smooth steel plate roof, continuous welded seams, and coated with acrylic metal primer.
3. Roofing: Minimum 36 mils Gardner-Gibson "Black Jack Ultra-Roof 1000" 10-year siliconized elastomeric roof coating.
 - a. Color: White.
4. Roof Trim: 26-gauge prefinished steel trim to match siding.
 - a. Color: _____.
5. Ceiling: Exposed metal T-grid system with high-humidity and sag-resistant 24-inch by 24-inch by 5/8-inch acoustical tile, CertainTeed "HHF-157 Performance Series" fine-fissured mineral-fiber ceilings.
 - a. Color: White.
6. Insulation: Kraft-faced fiberglass building insulation, R-19, 6 inches thick in ceiling, batt or roll, Owens-Corning Fiberglass Corp. or equal.

Specifier Notes: Roof hatch is optional. Delete if not required.

7. Roof Hatch:

- a. Galvanized steel, Williams Brothers Corporation, 3'-0" by 2'-6".
- b. Aluminum ladder for access to roof hatch.

Specifier Notes: Roof railing is optional. Delete if not required.

8. Roof Railing: Two-line 1-5/8-inch-OD clear anodized aluminum pipe rail with 9-gauge galvanized chain link fence attached around perimeter of metal press box roof.

G. Doors:

1. Exterior Doors:
 - a. 3'-0" by 6'-8" steel-insulated hollow metal door, 1-3/4 inches thick and steel frame with aluminum threshold and weather stripping, Ceco Ultrador.
 - b. Open to swing out.
 - c. Color: Match press box siding.
2. Exterior Door Hardware: Equal to Yale 4600 Series (4607LN) heavy-duty grade 2 cylindrical lock, satin chrome plated, lever handle, keyed alike.

Specifier Notes: Delete interior doors if not required.

3. Interior Doors: 3'-0" by 6'-8" honeycomb-core interior hollow wood door and pre-finished 16-gauge steel frame with passage lockset.

H. Work Bench:

1. 20-inch-wide preformed work bench with Wilsonart plastic laminate and double 3/4-inch A-C grade plywood.
2. Laminate Color: Natural Almond.
3. Countertop Height: 32 inches above floor.

4. Support: 2-inch by 2-inch by 3/16-inch angle brackets spaced maximum of 32 inches on center.
- I. Windows:
1. Framed aluminum windows double glazed with tempered glass.
 - a. Color: White.

Specifier Notes: Specify ONE of the following TWO sentences.

- b. Legacy Series 450 vinyl, single-hung, vertical-sliding type with tilt-in sash, maximum size 48 inches high by 48 inches wide.
- c. Legacy Series 450 vinyl, horizontal single-sliding type, maximum size 48 inches high by 72 inches wide.
- d. Frame Color: White.

Specifier Notes: End wall and partition windows are optional. Delete if not required.

2. End Wall and Partition Windows:
 - a. Legacy Series 450 vinyl, picture-type, vinyl-framed windows, double glazed with tempered glass.
 - b. Maximum Size: 36 square feet, not over 9'-0" in either direction.
 - c. Minimum Size: 8 inches high by 8 inches wide.
 - d. Frame Color: White.

- J. Finish:
1. Exterior Siding and Trim: Factory-applied primer and topcoat, baked-on enamel.
 2. Doors: Sherwin Williams "KEM 400" enamel or equal.
 - a. Color: Match exterior siding.
 3. Touch-up damaged finish in field as needed.

- K. Electrical:
1. Conform to NFPA 70.
 2. Components: UL listed.
 3. Main Breaker:
 - a. 240/120V, 1-phase, 100-amp main breaker with minimum of 12 spaces, Square D Homeline or equal.
 - b. Flush mount inside metal press box with 1-1/2-inch conduit stub-out through floor for service line as specified in Division 26 section.
 4. Outlets:
 - a. 120V, 15A single duplex electrical outlets every 8'-0".
 - b. 18 inches above floor on front and back walls.
 5. Wiring:
 - a. Pre-wire with Armormite type MC isolated ground cable.
 - b. Conduit: Stubbed out of metal press box walls, EMT thin-wall conduit.
 6. Light Fixtures: 2'-0" By 4'-0" Lithonia CPX Flat Panel LED Recessed Light Fixture, 4543 Lumens, CCT 4000k, 20V, 38.9 Watts.
 7. Emergency Light Fixtures: Lithonia Emergency Combination Exit/Flood Led Light W/ Min 90 Minute Battery Back-Up

8. HVAC Units: Minimum of (1) Thru-Wall Unit or PTAC Unit Per Room.
 - a. Thermostat(s) mounted on unit(s) provided.
 - b. Unit Capacity: Press Box Manufacturer shall design to meet Building Code.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Examine areas to receive metal press boxes.
- B. Verify supports for metal press boxes are level, plumb, 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 installation until unacceptable conditions are corrected.

3.2 INSTALLATION

- A. Install metal press boxes in accordance with manufacturer's instructions at locations indicated on the Drawings.
- B. Install metal press boxes plumb, level, square, and straight.
- C. Attach metal press boxes securely in place to supports.
- D. Install metal press boxes weathertight.

3.3 ADJUSTING

- A. Inspect completed metal press boxes 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.

3.4 PROTECTION

- A. Protect completed metal press boxes to ensure that, except for normal weathering, press boxes will be without damage or deterioration at time of Substantial Completion.

END OF SECTION