
SECTION 12 55 00
DETENTION FURNITURE**PART 1 GENERAL****1.1 SUMMARY**

- A. Section Includes:
 - 1. Detention seating.
 - 2. Tie downs.

1.2 PREINSTALLATION MEETINGS

- A. Preinstallation Conference: Conduct conference at Project site.

1.3 SUBMITTALS

- A. Product Data: For each type of product.
- B. Shop Drawings: Include plans, elevations, sections, and attachment details.
- C. Samples: For factory-applied color finishes.
- D. Welding certificates.
- E. Maintenance data.

1.4 MAINTENANCE MATERIAL SUBMITTALS

- A. Security Fasteners: Furnish not less than one box for every 50 boxes or fraction thereof, of each type and size of security fastener installed.
- B. Tools: Provide two sets of tools for installing and removing security fasteners.

1.5 QUALITY ASSURANCE

- A. Welding Qualifications: Qualify procedures and personnel according to the following:
 - 1. AWS D1.1/D1.1M, "Structural Welding Code - Steel."
 - 2. AWS D1.3, "Structural Welding Code - Sheet Steel."
 - 3. AWS D1.6, "Structural Welding Code - Stainless Steel."

PART 2 PRODUCTS**2.1 WALL MOUNTED BENCHES**

- A. Basis-of-Design Product: Subject to compliance with requirements, provide Norix Group, Inc.; IBW Wall-Mounted Detention Bench, or comparable product by one of the following:
 - 1. American Jail Products, LLC.
 - 2. BarkerBuilt, Division of Bob Barker Company, Inc.
 - 3. Chief Industries, Inc., Custom Products Division.
 - 4. DDS Group, Detention Products Division.
 - 5. Maximum Security Products Corp.
 - 6. Southern Folger Detention Equipment Company.
 - 7. Sweeper Metal Fabricators Corp.
 - 8. Willo Products Company, Inc.
- B. Bench Size:
 - 1. Wall Mounted Bench with Cuff Rings - T13: 18 inches wide x 96 inches long.
 - 2. Wall Mounted Bench - T14: 12 inches wide x 72 inches long.

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3. See drawings for locations.
 - C. Bench Top: Formed from 10 ga. With 1-1/2" deep flanges on all sides.
 1. Brackets: Formed from 7 ga. Nominal thickness steel sheet, welded to bench top.
 - D. Finishes: Factory powder-coated finish. Color to be selected by Architect from manufacturer's full color line.
 1. Options:
 - a. 12 ga. Stainless steel top with #4 finish
 - b. Steel handcuff rings on benches where indicated on Drawings, one ring for each 2 feet of bench length.

2.2 TIE DOWNS

- A. Concrete Detention Anchors: Provide secure cast-in place floor mounted anchor devices; provide DBI-SALA (Capitol Safety) Model No. 2101004, or equal.
 1. Quantity: Provide 4 each in Holding Cells A116, A117 and A118. Final location to be determined in field prior to pouring of concrete floor slab.
 - a. D-ring and Socket Cover: Provide removable/reusable d-ring and socket cover per anchor.
 2. Installation: Install per manufacturer's recommendations and requirements.

2.3 FABRICATION

- A. Shop Assembly: Preassemble items in shop to greatest extent possible to minimize field splicing and assembly.
- B. Coordinate dimensions and attachment methods of detention furniture with those of adjoining construction to produce integrated assemblies with closely fitting joints and with edges and surfaces aligned unless otherwise indicated.
- C. Shear and punch metals cleanly and accurately. Remove burrs.
- D. Form and grind edges and corners to be free of sharp edges or rough areas.
- E. Form metal in maximum lengths to minimize joints. Form bent-metal corners to smallest radius possible without causing grain separation or otherwise impairing the Work.
- F. Weld corners and seams continuously to comply with referenced AWS standard.
- G. Provide for anchorage of type indicated; coordinate with supporting structure. Fabricate and space anchoring devices to secure detention furniture rigidly in place and to support expected loads.
- H. Cut, reinforce, drill, and tap detention furniture as indicated to receive hardware, security fasteners, and similar items.
- I. Form exposed work true to line and level with accurate angles, surfaces, and straight sharp edges.
- J. Form exposed connections with hairline joints, flush and smooth using concealed fasteners where possible.

2.4 SECURITY FASTENERS

- A. Operable only by tools produced by fastener manufacturer or other licensed fabricator for use on specific type of fastener.
 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - a. Acument Global Technologies North America.
 - b. Bryce Fastener.
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- c. Safety Socket LLC.
- d. Tamperproof Screw Co., Inc.
- e. Tamper-Pruf Screws.

2.5 SECURITY SEALANTS

- A. See Section 07900 – Joint Sealants.

2.6 ACCESSORIES

- A. Concealed Bolts: ASTM A 307, Grade A unless otherwise indicated.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of detention furniture.
- B. Examine roughing-in for embedded and built-in anchors to verify actual locations of detention furniture before detention furniture installation.
- C. Inspect built-in and cast-in anchor installations, before installing detention furniture, to verify that anchor installations comply with requirements. Prepare inspection reports.

3.2 INSTALLATION

- A. Cutting, Fitting, and Placement: Obtain manufacturer's written approval for cutting, drilling, and fitting required for installing detention furniture. Set detention furniture accurately in location, alignment, and elevation; with edges and surfaces level, plumb, true, and free of rack; and measured from established lines and levels.
- B. Fit exposed connections accurately together to form hairline joints. Weld connections that are not to be left as exposed joints but cannot be shop welded because of shipping size limitations.
- C. Field Welding: Use materials and methods that minimize distortion and develop strength and corrosion resistance of base metals.
- D. Assemble detention furniture requiring field assembly with security fasteners with no exposed fasteners on exposed faces and frames.
- E. Anchor furniture with security fasteners as indicated on Drawings to walls at intervals required by expected loads, but not more than 12 inches o.c.
- F. Apply epoxy security sealant at all exposed gaps between detention furniture and adjacent construction greater than 1/16 inch.

3.3 FIELD QUALITY CONTROL

- A. Inspect installed products to verify compliance with requirements. Prepare inspection reports and indicate compliance with and deviations from the Contract Documents.

END OF SECTION 12 55 00