



CONTROL / FILTER CONSOLE SPECIFICATION

SECTION 13411 INSTRUMENT CONSOLES

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Instrument Consoles

1.2 RELATED SECTIONS

- A. Section 03300 – Cast-In-Place Concrete: Concrete console pad.
- B. Division 16: Electrical connections.

1.3 REFERENCES

- A. ASTM D 638 – Standard Test Method for Tensile Properties of Plastics.
- B. ASTM D 790 – Standard Test Methods for Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials.

1.4 SUBMITTALS

- A. Submit under provisions of Section 01300.
- B. Product Data: Certified independent test results of representative wall laminate.
- C. Shop Drawings: Show:
 - 1. Critical dimensions, jointing and connections, fasteners and anchors.
 - 2. Materials of construction.
 - 3. Sizes, spacing, and location of structural members, connections, attachments, openings, and fasteners.
 - 4. Color.
- D. Samples: 8-inch square sample of representative wall construction, upon request.
- E. Manufacturer's installation instructions.

1.5 SYSTEM DESCRIPTION

- A. Size: provide one-piece molded construction FRP consoles of the following:
 - 1. Table-top style, 36 inches wide, Model 500.
 - 2. Table-top style, 48 inches wide, Model 750.
 - 3. Table-top style, 66 inches wide, Model 1000.

 - 4. Low breakfront style, 36 inches wide, Model 1250.
 - 5. Low breakfront style, 48 inches wide, Model 1500.
 - 6. Low breakfront style, 66 inches wide, Model 1750.

 - 7. High breakfront style, 36 inches wide, Model 2000.
 - 8. High breakfront style, 48 inches wide, Model 2250.
 - 9. High breakfront style, 66 inches wide, Model 2500.



1.6 DELIVERY, STORAGE, AND HANDLING

- A. Store products indoors or in weather protected area until installation. Protect from construction traffic and damage.

PART 2 PRODUCTS

2.1 MANUFACTURER

- A. The product shall be manufactured by TRACOM, Inc.; 6575-A Industrial Way, Alpharetta, Georgia 30004; Toll-Free Voice (877) 435-8637, Toll-Free Fax (866) 435-8637, www.tracomfrp.com.
- B. Requests for substitution must be made in writing and received by the engineer's office a minimum of ten (10) business days before bid opening. Substitutions shall be made in accordance with the provisions of Section 01600.
- C. Substitutions: Manufacturers not pre-approved shall not be allowed.
- D. Warranty: Consoles shall be warranted to be free of defects in workmanship and materials for a period of two years from date of shipment.

2.2 MATERIALS

- A. One-Piece Molded Composite Construction:
 - 1. Laminate: Isophthalic polyester resin with high performance, chopped, commercial grade glass strand fiber reinforcement with a suitable coupling agent.
 - i. Exterior surface: 15 mil gel coat with U.V. inhibitors and a satin finish, free from fiber pattern, roughness, or other irregularities.
 - ii. Wall laminate: 1/8 inch thick (minimum); chemically bonded to the surface gel coat.
 - iii. Interior surface: 15 mil gel coat with U.V. inhibitors and a textured finish, free from exposed glass or other irregularities.
 - iv. Laminate properties:
 - 1. Tensile strength (ASTM D 638): 9,000 PSI.
 - 2. Flexural strength (ASTM D 790): 13,000 PSI.
 - 3. Flexural modulus (ASTM D 790): 800,000 PSI.
 - v. Instrument mounting surface laminates shall be 1/4 inch thick (maximum).
 - vi. Sidewall surface laminates shall be 1/8 inch thick (minimum).
 - 2. Coupons prepared in accordance with ASTM D 618.
- B. The manufacturer shall maintain a continuous quality control program and upon request shall furnish to the engineer certified test results of the physical properties.

2.3 CONSTRUCTION

- A. One-piece molded construction. No metal strips required to form mechanical joints.
- B. Smooth satin exterior gel coat.
- C. 1/2 inch radius rounded corners.
- D. Recessed, lift-off access doors with Southco Type 44 latches.
 - a. Front Access Doors (24 inches height by 28 inches wide):
 - i. 36 inch wide models: One.
 - ii. 48 inch wide models: One.
 - iii. 66 inch wide models: Two.
 - b. Rear Access Doors (32 inches height by 28 inches wide):
 - i. 36 inch wide models: One.
 - ii. 48 inch wide models: One.



- iii. 66 inch wide models: Two.
- E. Open base with 2-1/2 inches wide internal mounting flange.
 - a. Integral full floor **(OPTIONAL)**.
- F. Individually plywood crated for shipment

2.4 OPTIONS **(select all that apply)**

- A. Gasketed front and rear access doors **(OPTIONAL)**.
- B. Hinged access doors **(OPTIONAL – in lieu of standard SouthCo latches)**.
- C. Instrument cutouts **(OPTIONAL – customer supplied full-scale cutout template required)**.
- D. 12 gauge painted steel sub-panel, with mounting struts, **(OPTIONAL)**.
 - a. 36 inch wide models: (1) C-P3636 34.2 inch wide x 34.2 inch high
 - b. 48 inch wide models: (1) C-P4836 46.2 inch wide x 34.2 inch high
 - c. 66 inch wide models: (2) C-P3030 28.2 inch wide x 28.2 inch high.

2.5 FINISHES

- A. Color: #1555 Whale Bone.
- B. Color: _____ **(OPTIONAL)**.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify that the concrete slab is level, true to plane, and of the correct dimensions to receive the structure. Correct all deficiencies before proceeding.

3.2 INSTALLATION

- A. Install products in accordance with engineer’s instructions, plans, blueprints, etc, local codes, and in a manner consistent with the installation instruction and recommendation of the manufacturer.
- B. Ensure that products are installed plumb and true, free of warp or twist.
- C. Anchor consoles to the floor with expansion anchor bolts (provided by others).
- D. For additional installation instructions refer to latest revision of document CON-I.

3.3 ADJUST AND CLEAN

- A. Clean surfaces in accordance with the manufacturer’s instructions.
- B. Remove trash and debris, and leave the site in a clean condition.

END OF SECTION

Document: CON-S
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