



PORTABLE SAMPLER ENCLOSURE SPECIFICATION

SECTION 13160 PRE-ENGINEERED FIBERGLASS ENCLOSURE

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Pre-engineered enclosures.

1.2 RELATED SECTIONS

1.3 REFERENCES

- A. ASTM C 518 – Standard Test Method for Steady-State Heat Flux Measurements and Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus.
- B. ASTM D 256 – Standard Test Method for Determining the Pendulum Impact Resistance of Notched Specimens of Plastics.
- C. ASTM D 618 – Standard Practice for Conditioning Plastics for Testing.
- D. ASTM D 638 – Standard Test Method for Tensile Properties of Plastics.
- E. ASTM D 732 – Standard Test Method for Shear Strength Plastics by Punch Tool.
- F. ASTM D 790 – Standard Test Methods for Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials.
- G. ASTM D 792 – Standard Test Method for Specific Gravity (Relative Density) and Density of Plastics by Displacement.
- H. ASTM D 1622 – Standard Test Method for Apparent Density of Rigid Cellular Plastics.
- I. ASTM D 2583 – Standard Test Method for Indentation Hardness of Rigid Plastics by Means of a Barcol Impressor.

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 an enclosure of the following type:
 - 1. Size: 2 FEET 6 INCHES DIA. x 3 FEET 0 INCHES H.
 - i. Two-piece molded construction.



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: Enclosures 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. Orthophthalic resins shall not be acceptable.
 - i. Minimum glass content: 30%.
 - ii. Exterior surface: 15 mil (minimum) gel coat with U.V. inhibitors, a satin finish, and free from fiber pattern, roughness, or other irregularities.
 - iii. Laminate: 1/8 inch thick (minimum); chemically bonded to the gel coat surfaces.
 - iv. Interior surface: 15 mil (minimum) gel coat with U.V. inhibitors and a textured finish, free from exposed glass or other irregularities.
 - v. Laminate properties:
 - 1. Tensile strength (ASTM D 638): 11,000 PSI.
 - 2. Flexural strength (ASTM D 790): 18,000 PSI.
 - 3. Shear strength (ASTM D 732): 12,000 PSI.
 - 4. Barcol hardness (ASTM D 2583): 40.
 - 5. Density / specific gravity (ASTM D 792): 93.6 PCF/1.5.
 - 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 COMPONENTS

- A. Top:
 - a. Removable upper enclosure cowl with:
 - i. (2) T-304 stainless steel lockable hasps [for user supplied pad locks] to secure the upper cowl to the base assembly.
- B. Base:
 - a. (2) T-304 stainless steel receiving hasps to provide secure connection points for the upper cowl's haps assemblies.
- C. Handles:
 - a. (2) molded, cushioned, black rubber pulls, 6-1/2 inches L x 1-1/2 inches H (minimum).



2.4 FINISHES

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

END OF SECTION

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