



ROHN® FIBERGLASS EQUIPMENT SHELTERS GENERAL SPECIFICATIONS

1.0 Scope

The specifications contained herein encompass the labor, equipment, and materials for the fabrication of a transportable, prefabricated fiberglass equipment shelter.

2.0 General

2.1 Shelter type

2.1.1 The shelter shall be preassembled and fiberglass coated. Shelters in excess of 12' in width shall be of two piece construction.

2.2 Shelter size

Standard size and dimensions shall be per the following:

2.2.1 Width and length shall be to the outside of finished walls. Width is either 8'-0", 10'-0", or 12'-0". Shelters in excess of 12' width shall be two sections, each up to 12' in width for a maximum total of 24' assembled. Length shall be from 8'-0" to 40'-0" as specified by Purchaser, in 2' increments.

2.2.2 Heights shall be 8'-0", 9'-0" or 10'-0" from finished floor to finished ceiling measured inside. Other interior heights available to Purchaser specifications.

2.2.3 Variations from standard sizes may necessitate a price and/or delivery adjustment.

2.3 Operating environment and control

2.3.1 The shelter shall be dust proof, air tight, and watertight.

2.3.2 The optimum operating range of the equipment to be installed shall be assumed to be 78 degrees F (25.6 degrees C) unless otherwise specified by the Purchaser. The heating and cooling requirements for a shelter shall be based upon the outside ambient temperature and equipment operating heat output specified by the Purchaser.

3.0 Structural

3.1 Skid

3.1.1 Two (2) or three (3) full lengths of 6" steel structural channel (8.2 lbs. per ft.) extending approximately 6" beyond the ends of the shelter with lift eyes in each end of the channel with two (2) or more cross braces of 3" pipe, maximum spacing 84".

3.1.2 Skid components, including hardware, shall be hot dip galvanized after fabrication.

3.1.3 Skid shall be attached to the shelter with 1/2" x 5" lag bolts.

Optional concrete floor does not have a skid.

3.2 Floor section

3.2.1 The floor shall be of sandwich fabrication with 4 x 4 wood joists spaced 16" on center. Voids between joists shall be filled with 3-1/2" thick fiberglass insulation with vapor shield (R11 Rating). Floor shall be laminated on both sides (see drawing) with 3/4" exterior A/C grade plywood (smooth face out) or waferboard.

3.2.2 The exterior surface shall be covered with 1/8" of polyester/fiberglass composite with a 15 mil minimum thickness gelcoat polyester enamel.

3.2.3 The interior surface shall be covered with a 1/8" x 12" x 12" square vinyl floor covering, bonded with a waterproof contact adhesive.

Optional: Concrete floor with tile.

3.3 Wall sections

3.3.1 The frame shall consist of a 2 x 4 wood box frame with 2 x 4 studs spaced 16" on center. Voids between studs shall be filled with 3-1/2" fiberglass insulation with a vapor shield (R11 Rating).

3.3.2 The exterior shall be covered with 3/8" exterior grade waferboard.

3.3.3 The interior shall be covered with 1/4" light colored wood paneling with moldings on corners. Floor/wall intersection shall be finished with 4" vinyl baseboard.

3.4 Ceiling

3.4.1 The shelter ceiling shall be 3/8" wood substrate textured white with moldings on corners.

3.5 Roof section

3.5.1 The roof section shall be constructed of 2 x 6 or heavier rafters at 16" on center and sloped at 1/2" per foot minimum from the center. Void areas between rafters shall be filled with 6" thick fiberglass insulation with a vapor shield (R19 Rating). The exterior shall consist of 3/4" minimum sheathing.

3.6 Finish

3.6.1 The entire exterior of the shelter shall be thoroughly coated with 1/8" of polyester resin and chopped fiberglass composite (1/4" thick on roof). Resin shall be pigmented tan and stabilized for ultraviolet protection. The fiberglass coating shall be completely sanded and cleaned for final finish. Final finish shall consist of 15 mil minimum gelcoat polyester enamel with tan pigment and ultraviolet stabilizers. Colors other than tan are available at additional cost.

3.6.2 Openings shall be fiberglassed to the interior of the shelter. Corners shall be rounded and voids shall be filled with polyester compound and sanded prior to fiberglassing.

3.7 Door

3.7.1 The shelter shall have one (1) prehung gasket sealed, insulated 3' wide by 7' high metal door with hardware. Other door types available to meet Purchaser requirements.