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SPECIFICATION SHEET

MODEL C-11 TRANSPORTABLE BUILDING Boral Truexterior® Siding

Shipped Completely Assembled

A unisex, handicapped-accessible, transportable, structural insulated wood panel building built to attach to a matching composting base foundation. This building shall measure 7'6" in length and 5'8" in width and 9'4" in height (to roof peak).

The building shall be constructed of durable insulspan structural panels. These panels shall consist of an expanded polystyrene core with one pound of expanded polystyrene per cubic foot bonded between two outer layers of structural oriented strand board. Interior finish shall be seamless fiberglass-reinforced panel and laminated.

The panel core material (EPS) shall have the following characteristics:

- Structural integrity including permanent shape retention and resistance to shrinkage decomposition, and disintegration
- Thermal stability--consistent insulating value
- Nontoxic--formaldehyde-free
- Permanence and low water absorption--rot-resistant and moisture-resistant

Specifications for panels, roof, floor, trim, and window:

- Front wall panel to be 3-½" thick.
- Side and rear wall panels to be 2" thick.
- Roof panels to be 3-½" thick.
- Ceiling panel to be 3-½" thick.
- Large floor panel to be 3" thick with three splines as required for design load of 100 PSF.
- Small floor panel (maintenance access lid) to be 3" thick; trimmed with aluminum channels; attached with Type 304 stainless steel continuous hinge.
- Exterior walls to be covered with Boral Truexterior® clapboard siding.
- Underside of overhangs to be covered with ¾" Boral Truexterior® trim.
- Roof to receive traditional 3-tab organic asphalt shingles with 30-year limited warranty over 15 lb. felt covering with 8" galvanized drip edge.
- Edges of roof panels to be trimmed with Boral Truexterior® ¾" fascia and rake boards.
- Roof pitch to be 6:12
- Wood edges at floor panels to be pressure-treated with rating for direct contact with soil.
- Floor panels to have outer layers of ½" AB marine plywood.
  - *Small floor pane*l will be finished with a1/8" thick aluminum diamond plate with 3" diamond plate sides to form a flashing down over the structural panel base on the front and two sides.
  - *Large floor panel* will be finished with a 1/8" thick aluminum diamond plate with a seam in the middle running width wise, with 3" diamond plate sides [baseboards] to form a pan type insert to protect the floor.
- Interior trim to be Sanalite finish, high density polyethylene [Federal Specification # L-P-390C, Type 1, Class H]; corner molding ¾" x ¾" with stainless steel fasteners.
- Window to be ¼" obscure plexiglass DP 30, 17-3/4" x 35-1/2" mounted in rear wall.
- Live load of roof to be 64 LB PSF.
  Live load of floor to be 100 LB PSF.
- Wind load of building to be 3,121 lb./lineal foot to withstand winds of 120 MPH.
- Dead load of building to be 1,500 lb.

Specifications for capability of lifting building in one piece:

- Building shall be fitted with two integral 2-1/2" X 2-1/2" L galvanized coated steel angles with 1-1/4" nominal inside diameter steel tube threaded on inside at both ends and continuously welded to top and side of angle iron. Tube and angle are continuous through floor panel. Eyebolt screwed into end of each tube and used for lifting structure must be capable of carrying 3,000 lbs. each, with a total of 4.

Specifications for door and interior components:

- Door to be Series 1700 Supercore seamless, as manufactured by Amweld Building Products; polystyrene core construction; 18-gauge flat, cold-rolled steel panels (ASTM A366), electroplated; 1-3/4" X 3' X 6'8", with full louver top half, 24" X 24".
- Frame to be Series 2600, as manufactured by Amweld Building Products; 16-gauge cold-rolled steel, electroplated; 3' X 6'8" with 3-½" throat.
- Door closer to be Norton #1601-BF, aluminum
- Door handle to be PDQ SK Series, lever handle with privacy function, heavy gauge cold-rolled steel mechanism dichromated for corrosion resistance, US26D.
- Deadbolt to be PDQ SK series, 1" throw with case-hardened roller pin.
- Hinge to be BB21 US26.
- Grab bars (2) to be B-6206 Series, as manufactured by Bobrick; 18-gauge, Type 304 stainless steel tubing with concealed mounting, 42" length, 1-1/2" diameter, complies with barrier-free design codes.
- Toilet paper holder to be heavy-duty, vandal-resistant, 1/4" painted steel, double roll, with heavy duty lock.

An exterior, hinged floor (small floor panel) shall be installed over the composter base such that the battery storage shelf, liquid removal access port, and the compost maintenance and removal chamber can be easily accessed and locked separately from the building.

Specifications for concrete anchoring pads (two pads per building):

- Each pad shall be constructed of a monolithic pour over steel reinforcement with four pre-installed lifting points.
- Each pad shall weigh approximately 4000 lbs. and its dimensions shall be 9'x6' and shall be 6" thick.

Specifications for AC powered ventilation system:

- Ventilation fan: Fantech FR100 ventilation assembly
- Weather-tight electrical connection at base of building. *Client/owner is responsible for bringing electrical service to building*.

Specifications for solar powered ventilation system:

The standard solar-powered ventilation system is designed to provide fan ventilation 24 hours a day from May through October, or from dawn to dusk at "daylight-use only" sites, with panels, hardware, wiring, and appurtenances necessary for mounting on the roof of a building provided the solar window is a 170°arc of unobstructed direct sunlight, and includes:

- Ventilation fan: solar (photovoltaic)-operated, capable of supplying minimum required capacity to provide an odor-free building interior, 12VDC, 100 cfm, CSA and UL approved; as manufactured by Papst.
- Solar (photovoltaic) module or modules: 130 watts total
- Charge controller with low voltage disconnect: 12V, 10 amp, solid-state battery charge regulator.
- Battery: 12V, 110 amp hr., maintenance-free, valve-regulated, sealed gel cell, designed for deep-cycle photovoltaic applications.
- Roof mounting hardware.
- Add-on terminal kit to allow connection to the solar module.
- Output wiring kit.

Specification for Composting Base

- NSF Certification
  - **Composting Base is to be certified by the National Sanitation Foundation under Standard 41**
- Capacity / Base Volume
  - Solids Storage Capacity: 81 cubic feet; 604 US gallons
  - Liquid Storage Capacity: 40 cubic feet; 300 US gallons
  - Daily capacity at average temperature ≥65°F: 60 visits
  - Annual capacity at average temperature ≥65°F: 22,000 visits

Specifications and Materials

- Dimensions
  - Length: 116"; Width: 66"; Height: 48"
  - Weight: 800 lbs
- The Base is to be rotationally molded from high density linear polyethylene resin that conforms to the following Specifications:
  - Density (ASTM TEST 4883): 0.938 g/cm3
  - Tensile Strength at Yield (ASTM D 638): 2700 psi
  - Dart Impact (-40°C, 250 mils thickness): 145 ft-lbs
  - Envt. Stress Crack Resistance (D 1693): >400 hrs
- The composting base consists of four major areas
  - Composting Chamber
  - Liquid End-Product Removal Area
  - Compost End-Product Removal Area
  - Liquid Storage Area

Ventilation

- See specification for AC powered system or DC solar powered system

Specifications for waterless 14" toilet fixture

- All waterless toilets include: fiberglass stool with sanitary white gel finish for ease of cleaning, white plastic seat and cover, toilet liner.

Fixture

- Liner: rotationally molded polyethylene and gray in color
- Chute opening: 14"
- Front to back: 23-3/4"
- Width: 18-1/2"
- Height of seat: 18"
- Weight: 26 pounds
- Toilet Chute: One flanged chute to connect to the compost tank

Flanged chute

- 14" dia. X 22-1/2" rotationally molded polyethylene and dark green in color

Specifications for transitional platform:

- Platform will be constructed using pressure treated lumber rated for direct contact with the ground.
- Decking material will consist of 5/4” composite decking material secured to sub-bracing of 2"x4" supports using corrosion resistant decking screws.
- Platform construction will allow for a pressure treated header 4"x6" to be through-bolted to the composter using ½" diameter galvanized eyebolts and integrated galvanized 1/8” thick U-shaped saddles (2). This will allow for the ramp’s elevation to be field adjustable.