

## SECTION 13032

### SAUNAS

#### PART 1 GENERAL

##### 1.1 SECTION INCLUDES

- A. Factory-fabricated modular demountable sauna enclosure.
- B. Factory-cut sauna enclosure components.
- C. Factory-fabricated modular demountable outdoor sauna enclosure.
- D. Sauna benches.
- E. Sauna heater and control/monitoring equipment.
- F. Sauna accessories.

##### 1.2 RELATED SECTIONS

- A. Section 03300 - Cast-In-Place Concrete.
- B. Section 06100 - Rough Carpentry.
- C. Section 07212 - Board and Batt Insulation.
- D. Section 09300 - Tile.
- E. Section 09650 - Resilient Flooring.
- F. Section 16123 - Building Wire and Cable.

##### 1.3 SUBMITTALS

- A. Submit under provisions of Section 01300.
- B. Product data: Manufacturer's descriptive literature for sauna enclosure and components specified in this section.
- C. Shop drawings: Indicate, in plan and elevations, sauna enclosure design; indicate construction details.
- D. Two samples, minimum size 5 inches wide by 8 inches long, of specified materials for wood paneling.
- E. Manufacturer's printed installation instructions for sauna enclosure, benches, heater, and control/monitoring equipment.

- F. Operation and maintenance data: Sauna enclosure, heater, and control/monitoring equipment.
- G. Warranty documents: Issued and executed by manufacturer.

#### 1.4 DELIVERY, STORAGE, AND HANDLING

- A. Store products of this section in manufacturer's unopened packaging until installation.
- B. Maintain dry, heated storage area for products of this section until installation of products.

#### 1.5 WARRANTY

- A. Manufacturer's Warranties:
  - 1. Sauna manufacturer's 5-year warranty against defects in product workmanship and materials for sauna enclosure.
  - 2. Sauna manufacturer's 1-year warranty against defects in product workmanship and materials for sauna enclosure.
  - 3. Sauna manufacturer's 5-year warranty against defects in product workmanship and materials for sauna heater.
  - 4. Sauna manufacturer's 1-year warranty against defects in product workmanship and materials for sauna heater.

### PART 2 PRODUCTS

#### 2.1 MANUFACTURERS

- A. Acceptable Manufacturer: Baltic Leisure; 601 Lincoln Street, P.O. Box 530, Oxford, PA 19363. ASD. Tel: (800) 441-7147 or (610) 932-5700, Fax: (610) 932-5713.
- B. Requests for substitutions will be considered in accordance with provisions of Section 01600.
- C. Substitutions: Not permitted.

#### 2.2 COMPONENTS

- A. Sub-Floor: Specified in Section 03300.
- B. Sub-Floor: Specified in Section 09300.
- C. Sub-Floor: Specified in Section 09650.

- D. Wall and Ceiling Framing: Specified in Section 06100.
- E. Wall and Ceiling Framing: Manufacturer's standard factory-fabricated, panelized, demountable system.
- F. Wall and Ceiling Insulation: Specified in Section 07212.
- G. Wall and Ceiling Insulation: Expanded polystyrene foam, minimum 1 inch thick.
- H. Interior Wall and Ceiling Finish: Board paneling of nominal 1 inch by 6 inches softwood lumber, S4S, with maximum 10 percent moisture content; long edges machined for vee-type tongue-and-groove jointing:
  - 1. Species: Redwood, graded All Heart by RIS.
  - 2. Species: Western Red Cedar, graded A & Better by WWPA.
  - 3. Lengths: As required for single board length runs; end-to-end joints not permitted.
- I. Interior Flooring: Modular duckboard construction:
  - 1. Floor boards: Nominal 1 inch by 4 inch softwood vertical-grain lumber, S4S, same species as interior wall and ceiling finish material, with maximum 10 percent moisture content, spaced 4 inches on centers, fastened to cross-pieces with galvanized fasteners.
  - 2. Cross-pieces: Same material and size as floor boards, spaced at 16 inches on centers.
- J. Door and Frame: Pre-hung unit as follows:
  - 1. Frame: Lauan Mahogany lumber, S4S, maximum 10 percent moisture content, machined for integral stop.
  - 2. Top and bottom hinges: 1 pair 3-1/2 inch by 3-1/2 inch butts, US4 finish.
  - 3. Intermediate hinge: 1/2 pair 3-1/2 inch by 3-1/2 inch self-closing butt, US4 finish.
  - 4. Door:
    - a. Species of wood components: Same as interior wall and ceiling finish material.
    - b. Lite: 9-inch by 9-inch diamond lite of 3/16 inch thick gray tempered glass.
    - c. Lite: 13-inch octagonal lite of 3/16 inch thick tempered glass.
    - d. Lite: 10-inch wide by 42-inch high rectangular lite of 3/16 inch thick tempered glass.
    - e. Lite: 16-inch wide by 66-inch high rectangular lite of 3/16 inch thick tempered glass.
    - f. Lite: 16-inch wide by 60-inch high rectangular lite of 3/16 inch thick tempered glass.
    - g. Lite: 16-inch wide by 60-inch high octagonal lite of 3/16 inch thick tempered glass.

- h. Lite: 16-inch wide by 60-inch high rectangular two-way mirror of 3/16 inch thick tempered glass.
  - i. Pulls: Machined from same material as interior wall and ceiling finish material; provide pull for each side of door.
  - j. Door size: 2 feet wide by 6 feet, 8 inches.
  - k. Door size: 2 feet wide by 6 feet.
  - l. Door swing, as viewed from outside sauna, outswinging: Hinged left side.
  - m. Door swing, as viewed from outside sauna, outswinging: Hinged right side.
- K. Windows:
- 1. Lite: 10-inch wide by 42-inch high rectangular lite of 3/16 inch thick tempered glass.
  - 2. Lite: 16-inch wide by 36-inch high rectangular lite of 3/16 inch thick tempered glass.
  - 3. Lite: 16-inch wide by 66-inch high rectangular lite of 3/16 inch thick tempered glass.
  - 4. Lite: 16-inch wide by 36-inch high octagonal lite of 3/16 inch thick tempered glass.
  - 5. Lite: 16-inch wide by 66-inch high octagonal lite of 3/16 inch thick tempered glass.
  - 6. Lite: 16-inch wide by 66-inch high rectangular two-way mirror of 3/16 inch thick tempered glass.
  - 7. Lite: 24-inch wide by 36-inch high rectangular lite of 3/16 inch thick tempered glass.
  - 8. Lite: 16-inch wide by 36-inch high octagonal window with octagonal window in panel.
  - 9. Trim: Same material as interior wall and ceiling finish material.
- L. Exterior Finish Material: Board paneling of same material as interior wall and ceiling finish material.
- M. Exterior Finish Material: Lauan Mahogany sheet paneling.
- N. Benches: Constructed of same material as interior wall and ceiling material, S4S, vertical grain, and as follows:
- 1. Framing: Vertical members nominal 2 inches by 2 inches, minimum; horizontal members nominal 1 inch by 4 inches, minimum.
  - 2. Seating slats: Nominal 1 inch by 4 inches, with eased edges to minimize splinters, spaced 4 inches on centers.
  - 3. Seating slats: Nominal 2 inches by 2 inches, with eased edges to minimize splinters, spaced 2 inches on centers.

4. Trim: Constructed of same material as seating slats, with eased edges to minimize splinters, and as follows:
    - a. Bench fascia: Nominal 1 inch by 4 inches.
    - b. Bench blinders: Nominal 1 inch by 3 inches.
  5. Fasteners: Galvanized, concealed from view where possible.
- O. Heater: Electric heater containing igneous dolerite rocks for heat retention, UL listed, with gravity heat flow; forced-air fan not permitted.
1. Acceptable product: TYLO AB, Halmstad, Sweden.
  2. Metal enclosure finished with covering to protect against injury from user contact.
  3. Capacity: Recommended by manufacturer for sauna interior volume.
  4. Electrical requirements: \_\_\_VAC, \_\_\_ watts.
- P. Heater Control/Monitoring Equipment: Timer-activated switch with 60-minute maximum duration before automatic heater shut-off.
- Q. Accessories: Supply the following:
1. Wall-mount sauna light; manufacturer's standard, with vapor-proof lens.
  2. Sliding adjustable vent; wood construction, species matching sauna interior.
  3. Corner lampshade; wood construction, species matching sauna interior.
  4. Vent grille.
  5. Diagonal backrest.
  6. Wooden water bucket.
  7. Wooden ladle.
  8. Sauna headrest.
  9. Hygrometer, teardrop shape.
  10. (Hygrometer/Thermometer I - Item discontinued).
  11. Hygrometer/Thermometer FP.
  12. Audio transducer.
  13. Thermometer, teardrop shape.
  14. Skirting panel, horizontal.
  15. Skirting panel, vertical.
  16. Sauna sign.
  17. Clock, with wood housing.
  18. Hygrometer.
  19. Thermometer.
  20. Thermometer BA.
  21. Hygrometer BA.
  22. Thermometer C.
  23. Hygrometer C.
  24. Hygrometer/Thermometer E.

25. Wall-mount lampshade; wood construction, species matching sauna interior.
26. Hourglass.
27. Wooden tub.
28. Sauna Kleana.
29. Eucalyptus fragrance.
30. Copper bucket and ladle.
31. Towel bar; four-peg.
32. Towel bar; two-peg.
33. Brush set; two brushes.
34. Brush set; four brushes.
35. Body massage.

### 2.3 FABRICATION

- A. Cut wood materials for sauna enclosure to exact sizes required for field assembly without further trimming or adjustment.
- B. Assemble sauna enclosure, to extent practical within shipping limitations, in modular demountable units for field assembly without further trimming or adjustment.
- C. Assemble door and frame as pre-hung unit, complete with hardware.
- D. Package components for shipping.

## PART 3 EXECUTION

### 3.1 EXAMINATION

- A. Verification of Conditions:
  1. Utility services are of correct type and in correct locations.
  2. Construction activities specified in RELATED SECTIONS Article of PART 1 of this section that affect construction activities of this section are correct and complete.
- B. Installer's Examination:
  1. Have installer of this section examine conditions under which construction activities of this section are to be performed, then submit written notification if such conditions are unacceptable.
  2. Transmit two copies of installer's report to Architect within 24 hours of receipt.

3. Beginning construction activities of this section before unacceptable conditions have been corrected is prohibited.
4. Beginning construction activities of this section indicates installer's acceptance of conditions.

### 3.2 INSTALLATION

- A. Install sauna enclosure, heater, and control/monitoring equipment in accordance with shop drawings and manufacturer's printed installation instructions.
- B. Connection of heater, lighting, and control/monitoring equipment, to electrical service is specified in Section 16100.

### 3.3 ADJUSTING

- A. Operate heater, lighting, and control/operating equipment, through all modes to ensure correct operation.

### 3.4 CLEANING

- A. Remove soil from surfaces in accordance with manufacturer's instructions.

### 3.5 PROTECTION OF INSTALLED PRODUCTS

- A. Protect sauna enclosure and other components from damage to finishes and operation until Substantial Completion.

END OF SECTION