

SECTION 13 24 16 – SAUNAS

PART 1 GENERAL

Sauna rooms shall be as manufactured by McCoy Sauna & Steam of Wixom, Michigan. Substitutions of the products of other manufacturers will be considered only if a bid is received and will be entered as a proposed substitute for the product specified. All work set forth below will be included unless the drawings indicate N.I.C. (Not In Contract) or unless listed below as “related work in other sections.”

1.1 SECTION INCLUDES

- A. Panel Built saunas.
- B. Custom Cut saunas.
- C. Sauna heaters.
- D. Sauna accessories.

1.2 RELATED SECTIONS

- A. Section 03300 – Cast-In-Place Concrete: Floor Construction.
- B. Section 06100 – Rough Carpentry: Wall and Ceiling framing.
- C. Section 07210 – Building Insulation: Insulation of walls and ceiling.
- D. Section 15145 – Plumbing Piping: Floor drains.
- E. Section 16155 – Equipment Wiring: Connections to building electrical service.

1.3 SUBMITTALS

- A. Submit under provisions of Section 01300.
- B. Product Data: Manufacturer’s descriptive literature for saunas and components specified, including installation instructions and recommendations.
- C. Shop Drawings: Indicate room layout, equipment locations, details of assembly and anchorage, and rough-in locations.
- D. Verification Samples: Two samples, minimum size 6 inches (150 mm) square, accurately representing appearance of wall panels.
- E. Operation and Maintenance Data: Sauna enclosure, heater, and controls.

1.4 DELIVERY, STORAGE, AND HANDLING

- A. Store sauna products in manufacturer’s unopened packaging, in dry, heated storage area until installation.

1.5 WARRANTY

- A. See Section 01780 – Closeout Submittals, for additional warranty requirements.

- B. Residential Warranty: Provide manufacturer's two-year limited warranty against splitting and shrinking of wood materials and five-year limited warranty against defects in materials and workmanship for sauna heaters.
- C. Commercial Warranty: Provide manufacturer's standard one-year limited warranty against defects in materials and workmanship for all components including sauna heater.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable Manufacturer: McCoy Sauna and Steam, 29445 Beck Rd, Ste A-108, Wixom, MI 48393. ASD. TEL: (800) 225-7519 or (248) 348-8000 (in Michigan). Fax: (248) 348-8001.
- B. Substitutions: Not permitted.
- C. Requests for substitutions will be considered in accordance with provisions of Section 01600.

2.2 SAUNA COMPONENTS

- A. Panel Built Saunas: McCoy panel-built, free standing, insulated saunas, dimensioned as indicated on drawings, with wall and ceiling panels as follows.
 - 1. Pre-framed using 2 x 2 Douglas Fir.
 - 2. Insulated with R-13 Fiberglass Batt Insulation.
 - 3. Panel interior finish: Clear grade, 1 x 4 V-joint, kiln-dried Western Red Cedar.
 - 4. Panel exterior finish: Clear grade, 1 x 4 V-joint, kiln-dried Western Red Cedar or Kadamu plywood.
- B. Custom-Cut Sauna: McCoy pre-cut wall and ceiling finish for installation on framed walls, dimensioned as indicated on drawings, with wall and ceiling finish as follows;
 - 1. 1 x 4 (25 x 100 mm) V-joint T&G boards.
 - 2. Species: Clear Western Red Cedar, kiln-dried to 12 percent maximum moisture content.
 - 3. Lengths: As required to eliminate butt joints, with boards installed vertically if horizontal length of wall is over 96 inches (2440 mm).
- C. Door: Standard type as described below, including handles, casing, and jambs, and three brass hinges with a ball catch.
 - 1. Pre-hung, handicapped accessible door, with vertical grain Douglas Fir rails and sealed, tempered, double pane window.
 - a. Mahogany jambs.
 - b. Dimensions: 36 x 80 x 1-3/4 inches (915 x 2032 x 44.5 mm).
- D. Sauna Heater:
 - 1. Wall-Mounted Heaters:
 - a. Model as recommended by manufacturer for sauna volume.
 - b. Junior; 2.1 kW. 17.5 amps, 120 volts, integral controls, for saunas of 45 to 100 cubic feet (1.25 to 2.8 cubic m)

- c. Junior; 3.0 kW, 25 amps, 120 volts, integral controls, for saunas up to 150 cubic feet (4.2 cubic m).
 - d. Junior; 3.0 kW, 12.5 amps, 240 volts, integral controls, for saunas up to 150 cubic feet (4.2 cubic m).
 - e. Designer B; 4.5 kW, 18.8 amps, 240 volts, integral controls, for saunas up to 210 cubic feet (5.9 cubic m).
 - f. Designer B; 6.0kW, 25 amps, 240 volts, integral controls, for saunas up to 310 cubic feet (8.7 cubic m).
 - g. Designer B; 8.0 kW, 33.3 amps, 240 volts, integral controls, for saunas up to 425 cubic feet (11.9 cubic m).
 - h. Designer S; 4.5 kW, 18.8 amps, 240 volts, separate controls, for saunas up to 210 cubic feet (5.9 cubic m).
 - i. Designer S; 6.0 kW, 25 amps, 240 volts, separate controls, for saunas up to 310 cubic feet (8.7 cubic m).
 - j. Designer S; 8.0 kW, 33.3 amps, 240 volts, separate controls, for saunas up to 425 cubic feet (11.9 cubic m).
 - k. Designer S; 8.0 kW, 22.2 amps, 208 volts, separate controls, for saunas up to 425 cubic feet (11.9 cubic m).
 - l. Model _____, _____ watts, _____ amps, and _____ voltage.
 - m. Control model number _____.
2. Floor-Mounted Heaters:
- a. Heater model and controls as recommended by manufacturer for sauna volume.
 - b. Professional; 10.5 kW, 1-phase, 43.7 amps, 240 volts, separate controls, for saunas up to 600 cubic feet (16.8 cubic m).
 - c. Professional; 10.5 kW, 3-phase, 29 amps, 208 volts, separate controls, for saunas up to 600 cubic feet (16.8 cubic m).
 - d. Professional; 12 kW, 1-phase, 50 amps, 240 volts, separate controls, for saunas up to 740 cubic feet (20.7 cubic m).
 - e. Professional; 12 kW, 3-phase, 33 amps, 208 volts, separate controls, for saunas up to 740 cubic feet (20.7 cubic m).
 - f. Professional; 14.4 kW, 1-phase, 60 amps, 240 volts, separate controls, for saunas up to 950 cubic feet (26.6 cubic m).
 - g. Professional; 14.4 kW, 3-phase, 40 amps, 208 volts, separate controls, for saunas up to 950 cubic feet (26.6 cubic m).
 - h. Heater model number _____, _____, watts, _____ amps, and _____ voltage.
 - i. Control model number _____.
- E. Heater Controls: SC-60, with 60 minute timer, thermostat, light switch and indicator light; flush mounted; 4-1/2 inches (114 mm) wide by 10 inches (254 mm) high.
- F. Heater Controls: SC-9, with 9+1 timer (60 minutes on with 9 hour delay), thermostat, light switch and indicator light; flush mounted; 4-1/2 inches (114 mm) wide by 10 inches (254 mm) high.

- G. Heater Controls: SC Club, with on/off switch instead of timer (for use only in commercial saunas with an attendant on duty), thermostat, light switch and indicator light; flush mounted; 4-1/2 inches (114 mm) wide by 10 inches (254 mm) high.
- H. Benches: S4S, kiln-dried softwood.
 - 1. Tops: 24 inches (533 mm) wide, 1 x 4, clear Western Red Cedar; boards spaced at 9/16 inch (6.35 mm).
 - 2. Face: 1 x 4, clear Western Red Cedar
 - 3. Internal Framing: 2 x 4 or 2x6, Western Red Cedar
 - 4. Fasteners: 4d galvanized or stainless steel finish nails or screws.
- I. Floor Finish: Removable Duckboard Flooring in walk area. OR
- J. Floor Finish: Interlocking plastic tiles, to fill sauna walking space, for installation on a finished floor.
- K. Heater Guard Rail: S4S, kiln-dried Western Red Cedar, dimensioned to surround heater at distance approved by UL.

2.3 ACCESSORIES

- A. Standard Accessories:
 - 1. Thermometer: Manufacturer's standard design.
 - 2. Wood bucket with plastic liner and wood ladle.
 - 3. Light: Wall-mounted, UL listed, vapor-proof fixture with frosted white globe and brushed aluminum finish.
 - 4. Two (2) small headrests.
- B. Optional Accessories:
 - 1. Sand timer.
 - 2. Sauna hygrometer/thermometer, brass edging, 7 inches (178 mm) diameter.
 - 3. Sauna hygrometer/thermometer, chrome edging, 5 inches (127 mm) diameter.
 - 4. Hygrometer: Manufacturer's standard design.
 - 5. Set of body brushes.
 - 6. Pine bucket.
 - 7. Head/backrest.
 - 8. Towel rack.
 - 9. Vents

2.4 ACCESSORY COMPONENTS FOR PRE-CUT SAUNA

- A. Sub-Floor: Specified in Section 03300.
- B. Sub-Floor: Specified in Section 06100.
- C. Wall and Ceiling Framing: Specified in Section 06100
- D. Wall and Ceiling Insulation: Specified in Section 07210.
- E. Exterior Wall Finish: Furnished by others; to match other walls in room.
- F. Exterior Wall Finish: Tongue and groove, clear Western Red Cedar boards.

2.5 FABRICATION

- A. Assemble saunas and sauna components with blind nailing and concealed fasteners at exposed surfaces, to prevent physical contact with metal by sauna occupants.
- 3.1 EXAMINATION
 - A. Verify that required utilities are properly sized and in correct locations.
 - B. Verify that substrates are in proper condition to receive work of this section.
 - C. Do not begin installation until substrates have been properly prepared.
 - D. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.
 - 3.2 INSTALLATION
 - A. Install saunas and accessories in accordance with approved shop drawings and manufacturer's printed instructions.
 - B. Install and connect heater, lighting, and controls to electrical service in accordance with Section 16123 and manufacturer's printed instructions.
 - 3.3 CLEANING AND PROTECTION
 - A. Clean soiled surfaces in accordance with manufacturer's instructions.
 - B. Protect sauna and components from damage until completion of project.
 - C. Touch-up, repair or replace damaged products after Substantial Completion.

END OF SECTION 13 24 16