
AM-FINN SAUNA

Architectural Specifications for Modular and Pre-Cut Liner Saunas.

(Electric Heater Only)

SECTION 13038 – **Modular** and **PreCut Liner** SAUNAS. Please select the appropriate sauna type based upon your design criteria. A brief explanation of when to specify one or the other sauna is offered below. Call AM-FINN Sauna Inc. if anyone has questions regarding the correct sauna type to specify on your project.—800-237-2862. Save yourself and the client time and money by selecting the most appropriate sauna for the project.

Supplier: AM-FINN Sauna Company Inc. 372 South Eagle Road Suite 341, Idaho 83616
Tel: 800.237.2862 Fax: 208.286.0290 www.am-finn.com support@am-finn.com

When to specify a **Modular** Sauna: Please review diagrams at the beginning of these specs. A Modular sauna is best suited for a project with an open space on 1,2, or 3 sides. On-site installation is typically easier/faster. Sauna panels are assembled inside of the space and electrical power is brought to the sauna and installed. Limited or no framing is required to prepare the sauna area; no insulation is required. Cost savings through reduced materials and labor costs.

When to specify a **PreCut Liner** Sauna: Please review diagrams at the beginning of these specs. PreCut saunas are best suited for projects that require the four walls and ceiling of the sauna to be built on-site as a permanent part of the project. Walls and ceiling are built, insulated and further prepared to receive the 1x6 tongue & groove cedar boards that are then installed one at a time. The exterior wall can be covered in the same wood as the interior walls or covered with materials consistent with surrounding sauna area.

PART 1 – GENERAL-----**Modular Sauna**-----

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes modular saunas only.
- B. Related Sections include the following:
 - 1. Division 6 for wood furring, blocking, shims, and hanging strips required for installing precut sauna components and concealed within other construction before sauna installation.
 - 2. Division 7 Section “Building Insulation” for insulation [and vapor retarders] in walls and ceiling backing precut saunas.
- C.
 - 3. Division 9 “Finishes” for soffit and wall closures required to finish around the sauna.
 - 4. Division 16 Sections for electrical wiring and connections to saunas.

1.3 DEFINITIONS

- A. Inspection agencies, and the acronyms and abbreviations used to reference them, include the following:
 - 1. WCLIB - West Coast Lumber Inspection Bureau.
 - 2. WWPA - Western Wood Products Association.

1.4 SUBMITTALS

- A. Product Data: Include construction details, material descriptions, rated capacities (as appropriate), and accessories for each type of sauna indicated.
- B. Shop Drawings: Include plans, elevations (as required), sections, details, and attachments to other Work. Detail heater assemblies and indicate dimensions, weights, loads, required clearances, method of field assembly, components, and location and size of each field connection.
 - 1. Wiring Diagrams: Power, signal, and control wiring.

- C. Samples: For each exposed wood member, full board width by 12 inches (305 mm) long.
- D. Operation and Maintenance Data: For sauna heaters to include in operation and maintenance manuals.

1.5 QUALITY ASSURANCE

- A. Source Limitations: Obtain sauna components through one source from a single manufacturer.
- B. Safety Glass: Category I and II materials complying with testing requirements in 16 CFR 1201 and in ANSI Z97.1.
- C. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.
- D. Preinstallation Conference: Conduct conference at Project site to comply with requirements in Division 1 Section “Project Management and Coordination.”

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Do not deliver sauna materials until operations that could damage saunas have been completed in installation areas. If saunas must be stored in other-than-installation areas, store only in areas where environmental conditions comply with requirements specified in “Project Conditions” Article.
- B. Lay sauna materials flat, blocked off the ground.

1.7 PROJECT CONDITIONS

- A. Environmental Limitations: Do not deliver or install saunas until building is enclosed, wet work is complete, and HVAC system is operating and maintaining temperature and relative humidity at occupancy levels during the remainder of the construction period.
- B. Environmental Limitations: Do not deliver or install saunas until building is enclosed, wet work is complete, and HVAC system is operating and maintaining temperature between 60 and 90 deg F (16 and 32 deg C) and relative humidity between 25 and 55 percent during the remainder of the construction period.
- C. Field Measurements: Verify openings and dimensions for Modular saunas by field measurements before fabrication and indicate measurements on Shop Drawings.

1.8 COORDINATION

- A. Coordinate sizes and locations of framing and other related units of the Work specified in other Sections to ensure that Modular saunas can be installed as indicated.

1.9 WARRANTY

- A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of sauna heaters that fail in materials or workmanship within specified warranty period. Failures include, but are not limited to, the following:
 - 1. Faulty operation of heating element, controls, and safeties.
 - 2. Deterioration of metals, metal finishes, and other materials beyond normal use.
- B. Warranty Period: One year on the sauna's workmanship from date of Substantial Completion. Ten-year conditional warranty on the heater frame and one year on the internal components. Compliance with the heater manufacturer's specifications, drawings and diagrams is required to obtain the warranty. Daily, monthly cleaning and maintenance of the heater is strongly suggested to enjoy the warranty fully and completely. Obtain instructions from AM-FINN Sauna Co.

PART 2 - PRODUCTS

2.1 MANUFACTURER;

- A. Available Manufacturers: Provide sauna products manufactured by AM-FINN Sauna Co., 372 S. Eagle Rd. Suite 341 Eagle, Idaho 83616 Ph: 800.237.2862 Fx: 208-286.0290.

2.2 MATERIALS

- A. Lumber: Wood species and grades as follows, unless otherwise indicated:
 - 1. Western Red Cedar: WCLIB or WWPA; Clear Heart.
- B. Insulating/Tempered Glass: Preassembled units consisting of insulating/tempered-glass units made from two lites of 5/32" thick with 7/16" air space, clear glass double sealed. Provide jamb and casing of Western red cedar and complying with ASTM E 774 for Class CBA units.
- C. Fasteners: Exposed: Stainless steel, or Exposed: hot-dip galvanized.
- D. Modular Sauna: Provide manufacturer's standard prefabricated, demountable, panelized system complete with framing, insulation, exterior and interior finishes, prehung door, conduit to bring power to the electrical control panel and from the control panel to the heater, and trim; designed to be freestanding.

1. Framing: 2-by-2-inch-nominal kiln-dried, Douglas fir .
 2. Insulation: 3-1/2-inch fiberglass batt compressed to fit size of framing; with foil vapor retarder installed on interior side of sauna.
- E. Interior Wall and Ceiling Paneling: 1-by-6-inch-nominal V-joint, tongue-and-groove wood boards of species and grade indicated; sanded smooth; kiln-dried to no more than 12 percent moisture content.
1. Wood Species: Western red cedar
- F. Exterior Wall Finish: [**Same wood species as interior paneling**] [**Finish consistent with other exteriors in sauna area**] [**specify a finish required by customer**].
- G. Flooring: Manufacturer's standard [**removable, 1-by-6-inch-nominal wood duckboards, of same species as interior paneling, spaced not more than ½ inch (12.7 mm) apart and mounted on wood sleepers over concrete floor in front of the benches.**] [**solid cedar wall-to-wall floor, 1-by-6-inch-nominal wood of same species as interior paneling, mounted on wood sleepers over concrete floor.**]
- H. Door: Manufacturer's standard, solid core, prehung door with glass vision panel as follows:
1. Door Wood Species: Western Red Cedar.
 2. Jamb, Casing, and Threshold Wood Species: Western red cedar .
 3. Glass Vision Panel: Preassembled units consisting of insulating/tempered-glass units made from two lites of 5/32" thick with 7/16" air space, clear glass double sealed. Provide jamb and casing of Western red cedar and complying with ASTM E 774 for Class CBA units.
 4. Specify if ADA door or standard door. All doors are undercut ¼" – ½ " to provide proper and sufficient air flow into sauna. Do Not cut vents or other openings in sauna walls. **NOTE: All sauna doors open to the outside of the sauna, not to the inside.**
- Door Hardware: Provide one pair of self-closing brass hinges(top and bottom), one brass butt hinge(center), one ball catch, and two wood door pulls of Western Red Cedar.
- I. Benches: Fabricate from S4S, [1-by-6-inch-nominal] wood boards, spaced not more than ½ inch apart and supported by 2-by-4-inch-nominal wood framing; of Western Red Cedar.
- J. Interior Base, Corner, and Trim: Same wood species as interior paneling.

2.3 HEATERS AND CONTROLS

- A. Sauna Heater- Manufacturer's standard electric convection unit with stainless-steel interior, stainless-steel exterior. Provide heat-tested, shatter-resistant igneous rocks that are not in direct contact with heating-unit coils and are completely separated from the heating-unit coils. U.L. listed. Obtain rough-in instructions from supplier for electrical work which must be performed during build out phase prior to sauna installation. Especially critical if block or CMU wall construction is used. Conduits and location for heater control assembly on front wall are essential. Capacity: [Determined by manufacturer based upon square footage of sauna]

- B. Capacity: [Determined by manufacturer based upon square footage of sauna]
 - 1. Power Supply: 208 or 240-Volt and either single or three phase.
 - 2. Mounting: Wall mounted with bracket
 - 3. Controls: [**Built-in mechanical**] or [**Remote mechanical**] type, with contactor if necessary.

- C. Built-in Mechanical Controls: Manufacturer's standard system mounted integral with heater unit, with thermostat and the following features:
 - 1. Dial timer that automatically shuts off heater after 60 minutes.
 - 2. [optional] Dial time-delay that allows heater to be preset up to 24 hours, seven days in advance, with manual override.

NOTE: All electrical and gas installations must comply with local codes. However, if code requires a sprinkler be installed in the sauna consult the manufacturer for the temperature rating of the sprinkler head.

2.4 ACCESSORIES

- A. Provide the following accessories, of same wood species as interior paneling, unless otherwise indicated:
 - 1. Wood guardrail for heater, of dimensions required by listing.
 - 2. Wood-slat backrest for each bench.
 - 3. Thermometer
 - 4. Wall-mounted light fixture, rated for damp locations; brushed satin aluminum with white glass globe.
 - 5. Wood bucket, 1-gal. capacity, with plastic liner and wood ladle.

2.5 FABRICATION

- A. Fabricate saunas to dimensions, profiles, and details indicated. Sand boards smooth and ease edges to a radius of not less than 1/16 inch.
- B. Complete fabrication of Modular sauna panels, including assembly and hardware application, to maximum extent possible, before shipment to Project site. Disassemble components only as necessary for shipment and installation.
- C. Shop cut openings, to maximum extent possible, to receive hardware, electrical work, and similar items. Locate openings accurately and use templates or roughing-in diagrams to produce accurately sized and shaped openings. Sand edges of cutouts to remove splinters and burrs.
- D. Nail or screw bench components together from bottom side. Countersink fasteners.
- E. Secure glass in wood frames with removable stops.
- F. Flush mount junction boxes for heater, control panel, and light fixtures, with concealed connecting electrical conduit.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine walls, ceilings, and floors for suitable conditions where saunas are to be installed.
- B. Examine roughing-in for electrical systems to verify actual locations of electrical connections before heater installation.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Condition paneling to average prevailing humidity conditions in installation areas before installation.

3.3 INSTALLATION

- A. Install sauna components level, plumb, true, and straight with no distortions. Shim, as required, with concealed shims. Install level and plumb to a tolerance of 1/8 inch in 96 inches (3 mm in 2400 mm). Install with no more than 1/16 inch in 96-inch (1.6 mm in 2400-mm) vertical cup or bow and 1/8 inch in 96-inch (3 mm in 2400-mm) horizontal variation from a true plane.
- B. If local code requires installation of sprinkler heads inside sauna, insure heads **are rated at a high enough temperature to withstand the heat which will collect at the ceiling of the sauna.**

3.4 ADJUSTING

- A. Repair damaged and defective sauna components, where possible, to eliminate functional and visual defects; where not possible to repair, replace components.
- B. Adjust sauna door to close and latch properly.

3.5 DEMONSTRATION

- A. Consult a factory-authorized service representative (as required) to train Owner's maintenance personnel to adjust, operate, and maintain sauna heaters and controls. Refer to Division 1 Section "[Closeout Procedures] [Demonstration and Training]."

END OF SECTION 13038