

# Am-Finn Sauna & Steam



## Architectural Specifications *The Sauna That Steams™*

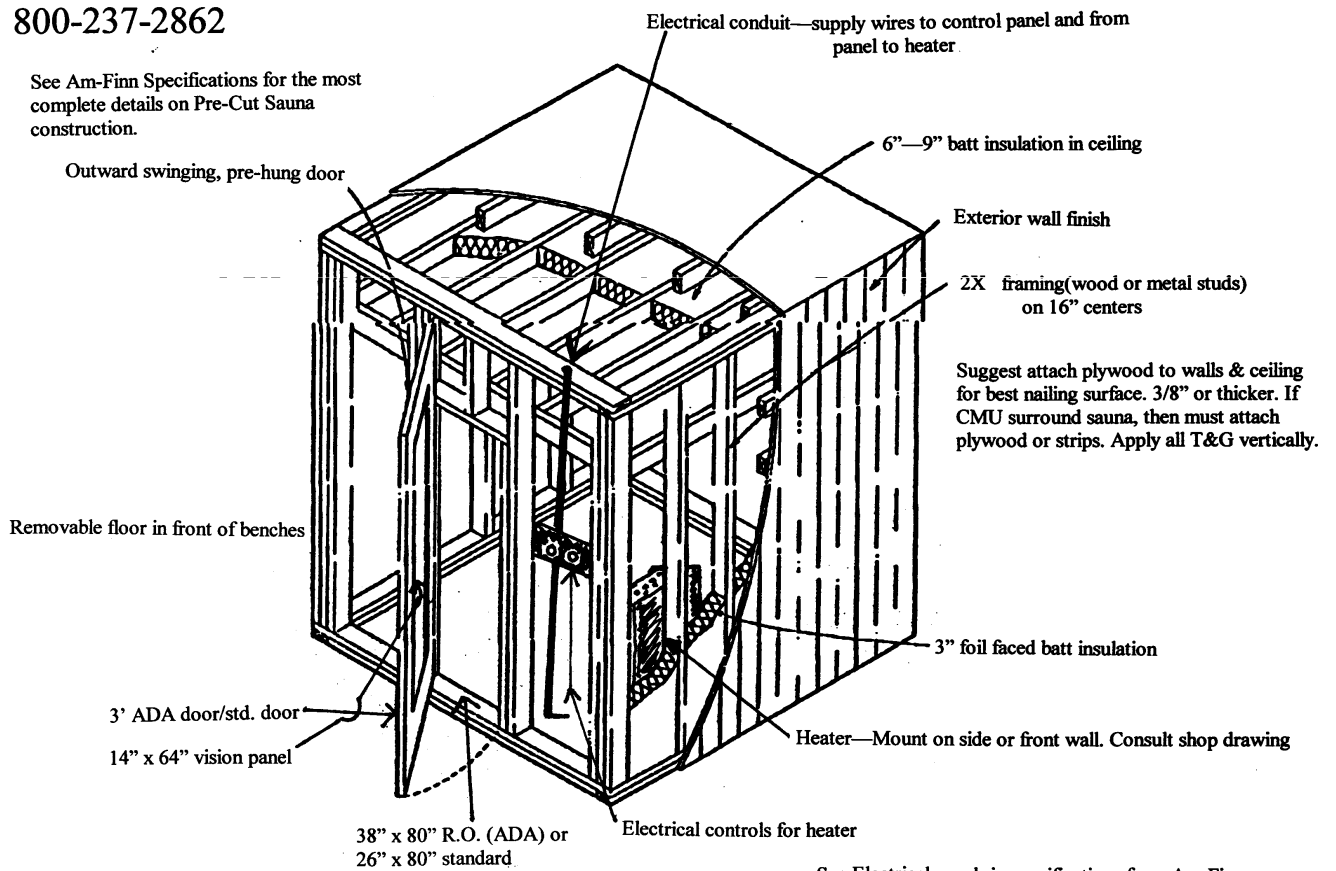
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**Suite 341**  
**Eagle, ID 83616**

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## **Pre-Cut Sauna Specifications**

**Pre-Cut Sauna details from  
Am-Finn Sauna  
800-237-2862**

See Am-Finn Specifications for the most complete details on Pre-Cut Sauna construction.



See Electrical rough-in specifications from Am-Finn

When to specify a **Pre-Cut Liner** Sauna: Please review diagrams at the beginning of these specs. Pre-Cut 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. Provided by on-site contractor. Walls and ceiling are built, insulated and lined with fire retardant plywood to receive the 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.

**NOTES TO SPECIFIER:** The following information must be available to the sauna manufacturer for proper fitting of benches, door and flooring.

Whether room construction is of wood studs or metal studs attach furring strips or plywood [3/8" or 1/2"] to the wall studs and ceiling so the interior finish wood can be applied to a proper nailing surface.

Specify direction of ceiling joists if use wood studs and if they are not to be covered with plywood.

Recommend cover ceiling with fire retardant plywood in all instances.

To properly build a pre-hung door the manufacturer must know the thickness of the door jamb.

## PART 1 – GENERAL-----**Pre-Cut Liner 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 Pre-Cut saunas only.
- B. Related Sections include the following:
  - 1. Division 6 for wood furring, blocking, shims, and hanging strips required for installing Pre-Cut 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 Pre-Cut saunas.
  - 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 Pre-Cut saunas by field measurements before fabrication and indicate measurements on Shop Drawings.
  - 1. Locate concealed framing, blocking, and reinforcements that support Pre-Cut sauna components by field measurements before being enclosed and indicate measurements on Shop Drawings.

## 1.8 COORDINATION

- A. Coordinate sizes and locations of framing, blocking, furring, reinforcements, and other related units of the Work specified in other Sections to ensure that Pre-Cut saunas can be supported and 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 & Steam

## PART 2 - PRODUCTS

2.1 MANUFACTURER;

- A. Available Manufacturers: Provide sauna products manufactured by Am-Finn Sauna & Steam, 800-237-2862, 372 S. Eagle Rd. Suite 341, Eagle, ID 83616.

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" thickness 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. Pre-Cut Sauna: Provide manufacturer's standard interior finishes, pre-hung door, and trim; designed to be constructed as a permanent part of the structure.
1. Framing: 2-by-4-inch-nominal kiln-dried, Douglas fir studs; or metal studs with ½ inch fire retardant plywood attached to provide a nailing surface; stud framing on maximum of 16" centers. [If sauna walls are built with CMU then must add ½ inch fire retardant plywood to the CMU].
  2. Insulation: 3-1/2-inch fiberglass batt compressed to fit size of framing; with foil vapor retarder installed on interior side of sauna. Provide layer of insulation at ceiling (7" total).
- 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. Attach to wall horizontally or vertically based on framing construction methods or customer preference.
1. Wood Species: Clear Western Red Cedar
- F. 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. Rough opening if ADA door should be 38" x 80"; if standard door 26" x 80". Specify if ADA door or standard door. All doors are undercut ½" – 1" to provide

proper and sufficient air flow into sauna. Do Not cut vents or other openings in sauna walls for air flow into sauna.

**NOTE: All sauna doors open to the outside of the sauna, not to the inside.**

- G. 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 (interior and exterior of door) of Western Red Cedar.
- H. Benches: Fabricate from S4S, [1-by-4-inch-nominal] wood boards, spaced not more than 1/2 inch apart and supported by 2-by-4-inch-nominal wood framing; of Western Red Cedar.
- I. 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.
- B. Do Not cut holes in sauna walls as vents. Venting is provided by undercutting sauna door 1/2" – 1" to provide proper air flow into sauna.
- C. 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.
- D. Mechanical Controls: Manufacturer's standard system mounted integral with heater unit, with thermostat, high limit cut off switch 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 installation 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. Do not enclose heater with closed wall construction.
  - 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 Pre-Cut sauna boards, 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. Contact sauna manufacturer for information to properly locate electrical conduit and rough-ins for heater. 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. Install with no more than 1/16 inch in 96-inch vertical cup or bow and 1/8 inch in 96-inch 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