SECTION 13 24 16

SAUNAS

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\*\* NOTE TO SPECIFIER \*\* Finlandia Sauna Products, Inc.; recut, Prefab, and Outdoor Saunas and Sauna Accessories.
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This section is based on the products of Finlandia Sauna Products, Inc., which is located at:14010-B S.W. 72nd Ave.Portland, OR 97224-0088Toll Free Tel: 800-354-3342Tel: 503-684-8289Fax: 503-684-1120Email: [request info (info@finlandiasauna.com)](https://arcat.com/rfi?action=email&company=Finlandia%252BSauna%252BProducts%252C%252BInc.&message=RE%253A%2520Spec%2520Question%2520(13052fin)%253A%2520&coid=32492&spec=13052fin&rep=&fax=503-684-1120)
Web: <http://www.finlandiasauna.com>
 [ [Click Here](https://arcat.com/company/finlandia-sauna-products-inc-32492) ] for additional information. send email request catalog
Finlandia Sauna Products, Inc. provides Prefabricated and Precut sauna packages in a choice of 4 clear soft woods (Western Red Cedar is standard). Components include wall and ceiling materials, benches, door, heater, stones, heater fence, headrest/backrest, trim and base, Super Dek sanitary removable flooring, light, vents, and accessories.

1. GENERAL
	1. SECTION INCLUDES

\*\* NOTE TO SPECIFIER \*\* Delete paragraphs below not required.

* + 1. Precut sauna packages and wall and ceiling framing and insulation.
		2. Prefabricated modular saunas for interior installation.
		3. Prefabricated modular saunas for exterior application, with roof package.
		4. Sauna doors.
		5. Sauna heaters and accessories.
	1. RELATED SECTIONS

\*\* NOTE TO SPECIFIER \*\* Delete sections below not relevant to this project; add others as required.

* + 1. Section 03 30 00 - Cast-in-Place Concrete.
		2. Section 06 10 00 - Rough Carpentry.
		3. Section 07 21 26 - Blown Insulation.
		4. Section 09 30 00 - Tiling.
		5. Section 09 65 13 - Resilient Base and Accessories.
		6. Section 22 13 26 - Sanitary Waste Separators.
		7. Section 26 05 00 - Common Work Results for Electrical.
	1. SUBMITTALS
		1. Submit under provisions of Section 01 30 00 - Administrative Requirements.
		2. [ Product Data ]: Manufacturer's descriptive literature for saunas and components specified in this section.
		3. Shop Drawings: Plan and elevations of sauna design, indicating construction details. Include electrical rough-in and wiring requirements for heater/control, including pre-installation and final hookup.
		4. Samples: Two samples, minimum size 4 inch (102 mm) wide x 8 inch (203 mm) long, of specified materials for wood paneling.
		5. Installation Instructions: Manufacturer's printed installation instructions for sauna, benches, and accessories.
		6. Operation and Maintenance Data: Sauna enclosure, heater, and control/monitoring equipment.
		7. Warranty Documents: Issued and executed by manufacturer.
	2. DELIVERY, STORAGE, AND HANDLING
		1. Store products of this section in manufacturer's unopened packaging until installation.
		2. Maintain dry, heated storage area for products of this section until installation of products.
	3. WARRANTY
		1. Provide manufacturer's standard one year warranty on heaters, controls, room materials and workmanship when installed according to manufacturer's specifications and wiring information.
1. PRODUCTS
	1. MANUFACTURERS
		1. Acceptable Manufacturer: Finlandia Sauna Products, Inc., which is located at:14010-B S.W. 72nd Ave.Portland, OR 97224-0088Toll Free Tel: 800-354-3342Tel: 503-684-8289Fax: 503-684-1120Email: [request info (info@finlandiasauna.com)](https://arcat.com/rfi?action=email&company=Finlandia%252BSauna%252BProducts%252C%252BInc.&message=RE%253A%2520Spec%2520Question%2520(13052fin)%253A%2520&coid=32492&spec=13052fin&rep=&fax=503-684-1120);Web: <http://www.finlandiasauna.com>
		2. Substitutions: Not permitted.
		3. Provide all saunas and accessories from a single manufacturer.
	2. MATERIALS

\*\* NOTE TO SPECIFIER \*\* Delete the following paragraph and subparagraphs of section A if a prefabricated sauna is required. The Prefab sauna (FPF) is freestanding, comes in ready made insulated panels, and assembles on a waterproof floor. Precut sauna packages (FPC) require a framed insulated space and a waterproof floor.

* + 1. Sauna (FPC): Precut sauna material package and related framing and finishing as required to complete sauna installation and as indicated on Drawings. Wall paneling to be installed the horizontal direction to the stud frame.

\*\* NOTE TO SPECIFIER \*\* Delete one of the following two paragraphs. If standard size package, model number can be inserted to indicate size. Verify standard sizes available.

* + - 1. Size: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
			2. Size: As indicated on Drawings. To fit field dimensions inside of 2x4 or 2x6 wood framing or 1x2 wooden nailing strips.

\*\* NOTE TO SPECIFIER \*\* Manufacturer recommends dry Douglas Fir framing, construction grade no. 1 or 2, spaced 16 inches on centers, with bottom of ceiling joists 7 feet above finished floor. Use pressure-treated plates against concrete.

* + - 1. Wall and Ceiling Framing: Specified in Section 06 10 00 - Rough Carpentry.
			2. Wall and Ceiling Insulation: Specified in Section 07 21 26 - Blown Insulation.
			3. Interior Wall and Ceiling Finish: "A" export grade, clear, kiln-dried (8 percent - 11 percent moisture) 1x4, 11/16 inch (17.4 mm) thick material.

\*\* NOTE TO SPECIFIER \*\* Delete all but one of the following four wood choices.

* + - * 1. Western Red Cedar (standard).
				2. Western Hemlock (upgrade).
				3. Alaskan Yellow Cedar (upgrade).
				4. California Redwood (upgrade).
			1. Assembled benches, clear, V.G., S4S, kiln-dried, 2x2, 1-1/2 inches x 1-1/2 inches (38 mm x 38 mm) tops with 3/8 inch (10 mm) spacing.
				1. Facing: 2x4, 1-1/2 inches x 3-1/2 inches (38 mm x 89 mm).
				2. Fastening: From bottom without exposed metal.
			2. Pre-hung glass door 24 inches wide x 6 feet 8 inches high (610 mm x 2032 mm); interior casing provided to match sauna room wood species.
			3. Heater fence.
			4. Assembled headrest/backrest No. 079 for upper benches.
			5. Trim (1x1) for ceiling, corners, and base (1x2).
			6. Super Dek, sufficient quantity for walking area of sauna room.
			7. Finlandia heater.
			8. Peridotite stones.
			9. Control/contactor panel if required by heater.
			10. Wall-mounted, vapor-proof light, Progress P5511, satin finish cast aluminum, 100 watt bulb max.
			11. Two sets of vents for installation in upper and lower wall areas. R.O. 4 inches x 10 inches (102 mm by 252 mm).

\*\* NOTE TO SPECIFIER \*\* Delete one of the following two lines. Metal vents are standard; cedar vents are optional.

* + - * 1. Metal vent set V10, register and grill.
				2. Cedar vent set V5 (upgrade), register and grill.
			1. Accessories including wooden thermometer No. 0301K, wooden bucket No. 102N with bucket liner, wooden dipper No. 106/40, and bathing sign.
			2. Type C building foil.
			3. Hot-dipped galvanized nails, 5d size (upon request only).
			4. Installation DVD.

\*\* NOTE TO SPECIFIER \*\* Delete the following paragraph and subparagraphs of section B if a precut sauna (FPC) is required. Precut material packages include materials for the interior of a framed room. Exterior material is not provided. Prefab sauna (FPF) panels can be installed on any level, hard-surfaced waterproof floor; electrical conduit is sealed within the walls, control box (where necessary) is pre-mounted. Prefab panels have interior and exterior wood finish.

* + 1. Sauna (FPF): Provide prefabricated modular sauna panels approx. 2 feet wide x 7 feet high (610 mm x 2134 mm) with concealed locking system for assembly, concealed electrical conduit, and finished exterior. Wall paneling runs vertical direction. Verify that size of space shall be larger than the exterior size of the prefabricated sauna and that job site ceiling height is at least 7 feet 3 inches (2210 mm) for proper assembly. Prefab saunas 8 feet x 8 feet size or larger require 7 feet 5 inches (2261 mm) ceiling height for proper assembly.

\*\* NOTE TO SPECIFIER \*\* Delete one of the following three paragraphs. Standard size model number can be inserted to indicate size. Verify standard sizes available.

* + - 1. Size: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ .
			2. Size: 5-sided.
			3. Size: As indicated on Drawings.
			4. Wall and Ceiling Framing: 2x2 (38 x 38 mm) Oregon Douglas Fir.
			5. Wall and Ceiling Insulation: R-11 fiberglass batts.
			6. Wall and Ceiling Vapor Barrier: Type C building foil.
			7. Interior Wall and Ceiling Finish: "A" export grade, clear, kiln-dried (8 percent -11 percent moisture) 1x4, 11/16 inch (17.4 mm) thick material.

\*\* NOTE TO SPECIFIER \*\* Delete all but one of the following four wood choices.

* + - * 1. Western Red Cedar (Standard).
				2. Western Hemlock (upgrade).
				3. Alaskan Yellow Cedar (upgrade).
				4. California Redwood (upgrade).

\*\* NOTE TO SPECIFIER \*\* Delete one of the following two lines. Exterior siding plywood is standard; exterior cedar paneling is optional.

* + - 1. Exterior Siding: 11/32 inch (8.7 mm) rough-sawn mahogany plywood.
			2. Exterior Paneling: 1/2 x 4 (12 x 102 mm) tongue-and-groove Western Red Cedar (upgrade).
			3. Assembled benches, clear, V.G., S4S, kiln-dried, 2x2, 1-1/2 inches x 1-1/2 inches (38 mm x 38 mm) tops with 3/8 inch (10 mm) spacing.
				1. Facing: 2x4, 1-1/2 inches x 3-1/2 inches (38 mm x 89 mm).
				2. Fastening: From bottom without exposed metal.
			4. Pre-hung glass door 24 inches wide (610 mm); interior casing provided to match room wood species.
			5. Heater fence.
			6. Assembled headrest/backrest No. 079 for upper benches.
			7. Trim (1x1) for ceiling.
			8. Super Dek, sufficient quantity for walking area of sauna room.
			9. Finlandia heater.
			10. Peridotite stones.
			11. Control/contactor panel if required by heater.
			12. Wall-mounted, vapor-proof light, Progress P5511, satin finish cast aluminum, 100 watt bulb max.
			13. Vents: One lower vent slot cut neatly into 2x4 base. One upper vent for installation in precut space (usually front wall).

\*\* NOTE TO SPECIFIER \*\* Delete one of the following two lines. Metal vent is standard; cedar vent is optional.

* + - * 1. Metal vent set V10, register and grill.
				2. Cedar vent set V5 (upgrade), register and grill.
			1. Accessories including wooden thermometer No. 0301K, wooden bucket No. 102N with bucket liner, wooden dipper No. 106/40, and bathing sign.

\*\* NOTE TO SPECIFIER \*\* Delete section 22 if not applicable. Insulated outdoor saunas are available in sizes from 48 by 48 to 96 by 96 inches and include a roof package with wood plates, prefab rafters, nailers, facia, metal flashing, cedar shingles, ridge cap, and nails (tar paper not included).

* + - 1. Outdoor Sauna: Includes roof package with cedar shingles, rafter sections, 1x4 pine nailers, facia, and metal flashings. Roof height is 8 feet 6 inches to 9 feet 8 inches (depending on room size) at peak after roof kit assembly.
			2. Assembly DVD.
		1. Flooring: "Super Dek" 12 inch x 12 inch x 1/2 inch (305 mm x 305 mm x 13 mm) flooring squares for walking areas over concrete, tile, or vinyl; removable, washable, sanitary, non-skid, synthetic injected molded plastic material.

\*\* NOTE TO SPECIFIER \*\* Delete one of the following two lines. Note that Finlandia does not recommend wood duckboard for the sauna floor.

* + - 1. Color: Terra cotta.
			2. Color: Beige.
		1. Doors and Frames:

\*\* NOTE TO SPECIFIER \*\* Delete one of the following two lines. Delete section 4 if choosing FPF sauna room package.

* + - 1. Door Type: Prehung for FPC sauna room.
			2. Door Type: Prefabricated for FPF sauna room.
			3. Door Rails: Solid wood laminated on both faces with clear, vertical grain Douglas fir veneer.
			4. Jamb size: up to 5-1/4 inch (133 mm) wide, over 5-1/4 inch (133 mm) to 7-1/4 inch (184 mm) wide (oversize), Casing (1x2): to match room species, and Threshold (3/4 inch thick): Hemlock.

\*\* NOTE TO SPECIFIER \*\* Retain one of the following six subparagraphs. Standard door size is 2 feet by 6 feet 8 inches; 3 foot wide doors are ADA compliant.

* + - 1. Door Size: 24 inches inch wide x 6 feet 8 inches (610 x 2032 mm). Standard size.
			2. Door Size: 28 inches inch wide x 6 feet 8 inches (711 x 2032 mm).
			3. Door Size: 30 inches wide x 6 feet 8 inches (762 x 2032 mm).
			4. Door Size: 32 inches wide x 6 feet 8 inches (813 x 2032 mm).
			5. Door Size: 34 inches wide x 6 feet 8 inches (864 x 2032 mm).
			6. Door Size: 36 inches wide x 6 feet 8 inches (915 x 2032 mm).

\*\* NOTE TO SPECIFIER \*\* Delete one of the following two subparagraphs.

* + - 1. Door swing, as viewed from outside sauna, out swinging: Model FGD-L, hinged left side.
			2. Door swing, as viewed from outside sauna, out swinging: Model FGD-R, hinged right side.
			3. Glass: Hermetically-sealed double glass (insulated), tempered.

\*\* NOTE TO SPECIFIER \*\* Delete all but one of the following ten subparagraphs. Clear glass is standard. Etchings for 3 foot wide doors are special ordered.

* + - * 1. Clear (standard).
				2. Etched with Negative Sauna image.
				3. Etched with Positive Sauna image.
				4. Etched with Negative Rustic Sauna image.
				5. Etched with Positive Rustic Sauna image.
				6. Etched Obscure.
				7. Etched with Mt. Hood image.
				8. Etched with Multnomah Falls image.
				9. Etched with Sailboat image.
				10. Etched with Lighthouse image.
			1. Hinges: Three 4 inch x 4 inch (102 mm x 102 mm) butt hinges, chrome finish.
			2. Roller catch latch, chrome finish.
			3. Door Pulls: Two wood pulls each door.

\*\* NOTE TO SPECIFIER \*\* Delete all but one of the following heater models. Each model is suitable for a specific range of room volume. Larger volume rooms will require more than one heater. Verify electrical requirements and size to fit room.

* + 1. Sauna Heater: Finlandia FLB; wall mounted with built-in controls; for room size up to 425 cu ft (12 cu m); residential model only.
			1. Electrical Characteristics: 240 VAC single phase.
			2. Size: 16 inch (406 mm) wide, 11 inch (279 mm) deep, 24 inch (610 mm) high.
			3. Capacity: As recommended by manufacturer for room volume.
			4. Controls: Built-in, 60 minute timer, thermostat, 8-hour time delay.

\*\* NOTE TO SPECIFIER \*\* Delete one of the following two paragraphs.

* + - 1. Front mounted controls.
			2. Side mounted controls (option).
			3. Construction: Three-wall pressed metal construction, stainless steel heating elements, 50 pounds (20 kg) stones, direct rock contact with heating elements, free air flow.

\*\* NOTE TO SPECIFIER \*\* Delete one of the following two paragraphs. Baked enamel exterior is standard, stainless steel exterior is optional.

* + - 1. Surfaces: Stainless steel interior and top, and baked enamel exterior.
			2. Surfaces: Stainless steel interior and top, and optional stainless steel exterior.
			3. UL tested and listed.
		1. Sauna Heater: Finlandia FIN; wall mounted with exterior wall mounted controls; for room size up to 425 cu ft (12 cu m).

\*\* NOTE TO SPECIFIER \*\* Delete one of the following two paragraphs.

* + - 1. Electrical Characteristics: 240 VAC single phase.
			2. Electrical Characteristics: 208 VAC three phase.
			3. Size: 16 inches (406 mm) wide, 11 inches (279 mm) deep, 24 inches (610 mm) high.
			4. Capacity: As recommended by manufacturer for room volume.
			5. Controls:

\*\* NOTE TO SPECIFIER \*\* Retain only one of the following four subparagraphs.

* + - * 1. F-1T mechanical Wall Control with thermostat, 60-minute timer, light switch, and indicator light; for FIN heater up to 6kw, 240 VAC single phase power.
				2. F-2T mechanical Wall Control with thermostat, 60-minute timer, light switch, and indicator light; for heaters 8kw and greater or any FIN-3ph heater; proper contactor specified by manufacturer.
				3. F-2 mechanical control (commercial location only) with no 60-minute timer. Use with 24HTC timer clock for all day operation.
				4. Griffin CG-170-U1 (1ph) or CG-170-U3 (3ph) digital control with temperature, 60-minute timer, 12-hour delay timer, light switch, F/C readings; includes separate power unit..
			1. Construction: Three-wall pressed metal construction, stainless steel heating elements, large rock capacity, 50 pounds (20 kg) stones, direct rock contact with heating elements, free air flow.

\*\* NOTE TO SPECIFIER \*\* Delete one of the following two paragraphs. Baked enamel exterior is standard, stainless steel exterior is optional.

* + - 1. Surfaces: Stainless steel interior and top, and baked enamel exterior.
			2. Surfaces: Stainless steel interior and top, and optional stainless steel exterior.
			3. UL listed heater and ETL listed control.
		1. Sauna Heater: Club model; floor mounted with exterior wall mounted controls; for room size from 388 to 989 cu ft (10.9 to 28.0 cu m).

\*\* NOTE TO SPECIFIER \*\* Delete one of the following two paragraphs.

* + - 1. Electrical Characteristics: 240 VAC single phase.
			2. Electrical Characteristics: 208 VAC three phase.
			3. Size: 19-7/8 inches (505 mm) wide, 17 inches (432 mm) deep, 27-1/2 inches (699 mm) high.
			4. Capacity: As recommended by manufacturer for room volume.
			5. Controls:

\*\* NOTE TO SPECIFIER \*\* Retain only one of the following three subparagraphs.

* + - * 1. F-2T mechanical Wall Control with thermostat, 60-minute timer, light switch, and indicator light; for heaters 8kw and greater or any FIN-3ph heater; proper contactor specified by manufacturer.
				2. F-2 mechanical control (commercial location only) with no 60-minute timer. Use with 24HTC timer clock for all day operation.
				3. Griffin CG-170-U1 (1ph), CG-170-U3 (3ph), or CG-170-15-U3 (12.5kw & 15kw 3ph) digital control with temperature, 60-minute timer, 12-hour delay timer, light switch, F/C readings; includes separate power unit.
			1. Construction: Deluxe chrome, stainless steel interior and exterior; triple-wall pressed metal construction, stainless steel heating elements, 132 pounds (60 kg) stones, direct rock contact with heating elements, free air flow.
			2. ETL tested and listed.
		1. Sauna Heater: Finlandia Compact JM; wall mounted with built-in reversible controls and protective fence; for room volume from 42 to 138 cu ft (1.2 to 3.9 cu m), 21 pounds of stones; residential model only.

\*\* NOTE TO SPECIFIER \*\* Delete one of the following two paragraphs.

* + - 1. Electrical Characteristics: 120 VAC, single phase.
			2. Electrical Characteristics: 240 VAC, single phase.
			3. Size: 9 inches (230 mm) wide, 12 inches (305 mm) deep, 25 inches (635 mm) high.
			4. Capacity: As recommended by manufacturer for room volume.
			5. Construction: Stainless steel interior and top, stainless steel exterior; three-wall pressed metal construction, stainless steel heating elements, 20 pounds (9 kg) stones, direct rock contact with heating elements, free air flow.
			6. UL tested and listed.
		1. Sauna Heater: Finlandia Topclass KV; wall mounted with built-in lighted control panel which is reversible; for room volume from 100 to 425 cu ft (2.8 to 12 cu m); residential model only.
			1. Electrical Characteristics: 240 VAC single phase.
			2. Size: 10 inches (254 mm) wide, 18 inches (457 mm) deep, 25 inches (635 mm) high.
			3. Capacity: As recommended by manufacturer for room volume.
			4. Controls: 60 minute timer and 8 hour time delay.
			5. Construction: Three-wall pressed metal construction, stainless steel heating elements, 50 pounds (20 kg) stones, direct rock contact with heating elements, free air flow.
			6. Surfaces: Stainless steel interior and top, stainless steel exterior.
			7. UL tested and listed.
	1. ACCESSORIES
		1. Standard Accessories:
			1. 102N; Wood bucket, 1 gallon (3.8 L) with plastic liner.
			2. 106/40; Wood dipper, 16 inch (406 mm) long.
			3. 079; Tapered headrest.
			4. 0301K; Birch thermometer.
			5. PBS; Plexiglas bathing sign.
			6. P5511; Vapor-proof wall light.
			7. SD12; Interlocking Super Dek flooring, 12 inch (305 mm) square.
			8. DVD showing sauna room assembly.

\*\* NOTE TO SPECIFIER \*\* Include the following optional accessories as required for the project.

* + 1. Optional Accessories:
			1. 442F; Cedar towel hanger.
			2. 5499; Chrome/glass thermometer/hygrometer, 7 inch (178 mm) diameter.
			3. 5498; Chrome/glass thermometer/hygrometer, 5 inch (127 mm) diameter.
			4. 5355; Chrome/glass thermometer, 4 inch (102 mm) diameter.
			5. 4355; Chrome/glass hygrometer, 4 inch (102 mm) diameter.
			6. 280K; Wood encased thermometer/hygrometer.
			7. 210K; Sauna sand timer.
			8. 490-128; Set of two brushes.
			9. 101N; Wood bucket, 1.84 gallons (6.9 L).
			10. 3465; Light copper bucket.
			11. 3455; Light copper dipper.
			12. 539; Stainless steel bucket with wood handle, 1 gallon (3.8 L)
			13. 540; Stainless steel dipper with wood handle, 15-3/4 inches (400 mm).
			14. 106/50; Wood dipper, 19 inch (483 mm) long.
			15. 108N; Wood pail, 2 gallons (7.5 L).
			16. AR5, set of 5 aromas, 1.8 oz. ea. (Eucalyptus, Cherry, Citrus, Birch, and Fir).
			17. V5; Cedar vent set (register and grill)
			18. SHADE; Curved and slatted birch light shade for P551 wall light.
			19. SAUNAHEART; Humidifier tube insert for FLB, FIN, KV, and CLUB heaters.
			20. FLT; Finlandia cotton towel 36 inch x 63 inch (915 mm x 1600 mm).
			21. BENCH SKIRT; 5 slat wooden skirt to cover open space between upper and lower bench(es); made to fit sauna room.
			22. PERMANENT BACKREST; 3 slat backrest to attach to wall 10 inches (254 mm) above upper bench(es); made to fit sauna room.
1. EXECUTION
	1. EXAMINATION
		1. Verify that utility services are of correct type and in correct locations.
		2. Verify that construction activities affecting work of this section are correct and complete.
		3. Examine conditions under which work of this section is to be performed.
			1. 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 work of this section before unacceptable conditions have been corrected is prohibited.
			4. Beginning construction activities of this section indicates installer's acceptance of conditions.
	2. INSTALLATION
		1. Install saunas and accessories in accordance with shop drawings and manufacturer's printed installation instructions.
		2. Connection of heater, lighting, and control/monitoring equipment, to electrical service is specified in Section 26 05 00 - Common Work Results for Electrical.
	3. CLEANING
		1. Clean soiled surfaces in accordance with manufacturer's instructions.
	4. PROTECTION OF INSTALLED PRODUCTS
		1. Protect sauna and components from damage to finishes and operation until Substantial Completion.

END OF SECTION