

PLAINTIFF'S EXHIBIT
April, 1950

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ASI-1069

Radiantrim Panels

by

AMERICAN-Standard

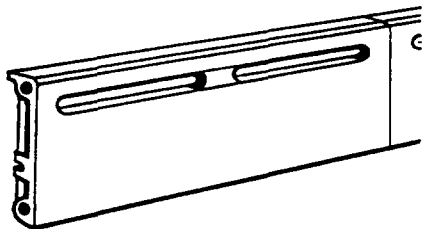


**Cast iron baseboard panels
for forced hot water or two pipe steam systems**

AMERICAN-Standard
First in heating ... first in plumbing

03918

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April, 1951



Radiantrim Panels

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AMERICAN-Standard

—the modern way to heat with a forced hot water or two-pipe steam system

Imagine your home with even, healthful warmth coming from a source so inconspicuous as to be practically invisible! This is one of the benefits of heating with Radiantrim Panels by American-Standard.

These cast iron heating panels, replacing wood baseboards normally along outside cold walls, are acclaimed the most advanced type of radiant heating. These compact modern radiators blanket the cold rim of each room with a wall of warmth, making all the space livable.

Radiantrim Panels provide an improved method of heat distribution. Installed at ankle level, they blanket the entire floor area with radiant warmth. Sun-like radiant rays warm everything in their path and provide more even room temper-

atures with only a slight difference between ceiling and floor. Radiantrim Panels assure better balanced heating, more rapid heating, and warmer floors.

Besides top-notch heating qualities, Radiantrim Panels offer distinctive decorating advantages. When recessed they require about an inch of floor space, thus allowing complete freedom of furniture arrangement. They can be painted to harmonize with any room color scheme.

Radiantrim Panels are practical, easy to install, and reasonable in price. Extremely flexible in use, they give the same uniform, healthful warmth whether used for new construction or modernization.

Healthful warmth

Radiantrim Panels furnish heat in two effective ways—by radiation and convection. But their superior design makes them far more effective than other radiant heating methods. These 8 inch high panels emit a blanket of *uniform, draft-free* heat directly into the living zone of a room. The sun-like radiant rays warm everything in their path, including the masses of cold air usually found at floor levels. As the warm air rises it spreads an even warmth throughout the room. Infiltrating cold air is stopped effectively at the source, where it enters the room. Down-drafts at windows are counteracted. And the result is more healthful, comfortable heating.



Decorator's Dream

It takes a sharp eye to detect Radiantrim Panels as the source of room heat. That's because in size and shape they resemble the ordinary wood baseboard. But—decorators acclaim them for other reasons as well. When recessed, Radiantrim Panels require virtually no floor space. And as shown in the illustration (left) there is nothing to interfere with the graceful fall of drapes or freedom of furniture arrangement. Radiantrim Panels permit full use of floor and wall space. To make them harmonize even more inconspicuously, panels can be painted to match walls or wood trim.



Radiantrim Extension Panels and Accessories

permit an uninterrupted baseboard line from wall to wall!

Radiantrim Extension Panels and Accessories by American-Standard help to complete Radiantrim Panel installations. They add the finishing touch that makes a completely modern job.

Where Radiantrim Panels are installed on outside walls, Extension Panels are used to provide a continuous baseboard line around the rest of the room. Since they are made of sheet steel and can be cut on the job to fit extension requirements, these panels provide an economical way to cover pipes and fill in short gaps between the Radiantrim Panel assembly and

corner of room. They can even be installed free standing or recessed exactly like Radiantrim Panels.

Installation of Extension Panels is an easy matter. They are designed to fit neatly, without overlap of bulky projection, joining at either end of a Radiantrim Panel assembly. Support brackets and connecting pieces are provided to hold Extension Panels rigidly to the wall and to offer a smoothly joined assembly of two or more panels. Extension Panels are readily adaptable to virtually any architectural arrangement.



VALVE ENCLOSURE

Access door can be removed easily to permit opening or closing of valve when necessary.



INVERTED CORNER COVER

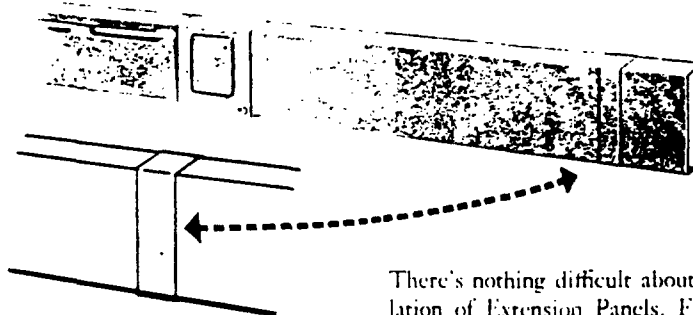
Protects and conceals fittings at end of an assembly around an inside corner.



PROJECTING CORNER COVER

Serves the same purpose as inverted corner cover but is used for outside corner.

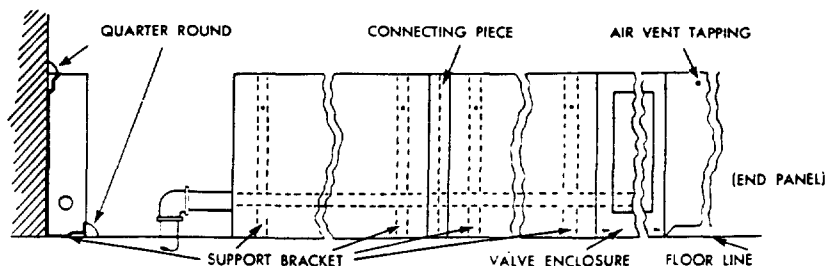
Valve enclosure and corner covers match Radiantrim Panels in size and appearance. Together with Extension Panels, they form a most economical way to complete baseboard installations. And what Extension Panels add in appearance and convenience more than compensates for their slight additional cost.



**EASY
TO
INSTALL**

There's nothing difficult about the installation of Extension Panels. First, panels are locked into place over a special support bracket screwed to the wall. And, as shown in the close-up, a connecting piece is simply positioned to cover joint where Extension Panels meet. That's all there is to a neat, speedy job. Accessibility of all equipment, at all times and for any reason, is another big feature. Accessories—valve enclosures and corner covers—shown at left are designed so that valves, connections and piping can be reached quickly and easily if desired.

The diagram below shows how an Extension Panel can be joined with Radiantrim Panels and a valve enclosure. Note that the Extension Panel and valve enclosure are the same height and thickness as the Radiantrim Panel, making a neat assembly. Placing quarter round or a wood moulding strip on top of panels adds immeasurably to handsome appearance.

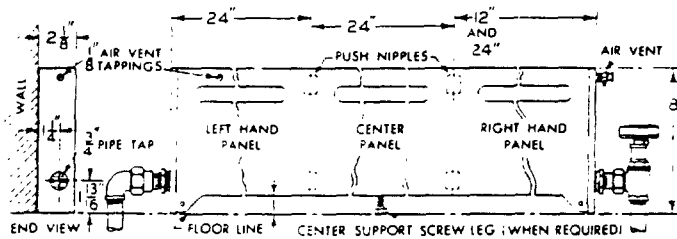
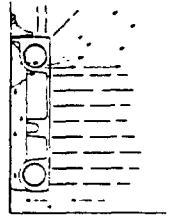


for health . . . comfort . . . economy . . .

Heat with RADIATRIM PANELS

When Radiantrim Panels are installed lifetime heating comfort is assured. Radiantrim Panels will be as modern tomorrow as they are today. This advanced type of heating offers every advantage, plus health . . . comfort . . . economy . . . a combination that can't be beat.

The diagram at right shows how Radiantrim Panels add so much to heating comfort in any home. Red lines indicate sun-like radiant warmth emitted by top and front panel surfaces. These radiant rays spread into lower zone of room, warming everything in their path. Wavy lines indicate flow of convector air. Cold air enters opening at bottom of panel and is warmed as it passes over fins. The warmed or convector air enters room through slots in top front of panel.



The diagram at left graphically portrays the components of the Radiantrim Panel assembly. Panels are all 24 inches in length, and a 12-inch right hand panel is available for use in odd number lineal foot assemblages. Panels are 8 inches high and 2 inches thick. To provide a neat finish to the completed installation, easily obtainable quarter round or wood moulding strips are usually added to the top of the panel assembly. Radiantrim Panels can be installed before plastering—and used immediately in new construction or in the re-modeled home.

RATINGS and DATA

RADIATRIM PANELS	Panel Length * No. of Lineal Feet	Output in Sq Ft Water or Steam 215°F	CAPACITIES—MBH—Thousands Btu per Hour								
			HOT WATER—Average Water Temperature—°F.								STEAM
			150	160	170	180	190	200	210	220	215°F
			Heat Emission Btu per Sq Ft for Above Temperatures								
			108	127	147	166	188	206	228	252	240
Type RC	3	7.7	8	11	11	13	14	16	18	19	18
	4	10.2	11	13	15	17	19	21	23	26	25
	5	12.8	14	16	19	21	24	26	29	32	31
	6	15.4	17	20	23	25	29	32	35	39	37
	7	17.9	19	23	26	30	34	37	41	46	43
	8	20.5	22	26	30	34	38	42	47	52	49
	9	23.0	25	29	34	38	43	48	53	58	55
	10	25.6	28	33	38	42	48	53	58	65	61
	11	28.2	30	36	41	47	53	58	64	71	68
	12	30.7	33	39	45	51	58	63	70	77	74
	13	33.3	36	42	49	55	62	69	76	84	80
	14	35.8	39	46	53	59	67	74	82	90	86
	15	38.4	41	49	56	64	72	79	88	97	92
	16	41.0	44	52	60	68	77	85	93	103	98
	17	43.5	47	55	64	72	81	90	99	110	104
	18	46.1	50	59	68	76	86	95	105	116	111
	19	48.6	52	62	71	81	91	100	111	123	117
	20	51.2	55	65	75	85	96	106	117	129	123
	21	53.8	58	68	79	89	101	111	123	136	129
	22	56.3	61	72	83	93	105	116	128	142	135
	23	58.9	64	75	86	98	110	121	134	148	141
	24	61.4	66	78	90	102	115	127	140	155	147
	25	64.0	69	81	94	106	120	132	146	161	154
	26	66.6	72	85	98	110	125	137	152	168	160
	27	69.1	75	88	101	115	129	143	157	174	166
	28	71.7	77	91	105	119	134	148	163	181	172
	29	74.2	80	94	109	123	139	153	169	187	178
	30	76.8	83	98	113	127	144	158	175	194	184

*Add $\frac{1}{2}$ inch to length for each bushing. Also add $\frac{3}{4}$ inches to length for each valve enclosure, $\frac{1}{4}$ inches for each inverted corner cover and $\frac{1}{2}$ inches for each projecting corner cover.

*Ratings are 2.56 sq ft per lineal ft, based on 240 Btu emission per square foot per hour for steam or average hot water temperature of 215°F.

NOTE:

Ratings are shown in Btu to permit easy selection of Radiantrim Panels. The following simple formula applies. First calculate the heat loss of the room in Btu's, using any recognized and approved method. Then locate the heat loss in vertical column under desired "Average Water Temperature" or "Steam" in rating table above. Following a line horizontally to left, find the number of lineal feet in first vertical column.

For example, determine the number of panels for a job, assuming the heat loss of room to be 5000 Btu, with an average water temperature of 180° to be maintained. In the table locate 5.1 (5,100 Btu expressed in MBH) in the column under 180°. On the same line, note the figure in first column (Panel Length) at left. It is 12, indicating that 12 lineal feet of panels are required. If the average water temperature is to be 200°, 10 lineal feet will be needed.



*Outstanding reasons
for selecting*
Radiantrim Panels

FOR A WIDE RANGE OF INSTALLATIONS

As shown in the rooms above, Radiantrim Panels offer flexibility of installation. In one home they provide an inconspicuous but effective source of heat when run beneath a picture window or any large expanse of glass. In another, with equal effectiveness, they can be installed under bookcases and cabinets as pictured on the right. And they work wonders in modernization jobs when installed in the conventional manner or special applications. With Radiantrim Panels there are no limitations on the use of floor coverings, which can range from linoleum or asphalt tile to heavy carpets or rugs. Radiantrim Panels are becoming more and more popular for heating homes, hotels, apartments, hospitals and a wide range of commercial structures.

ASSURE EFFICIENT HEAT TRANSFER

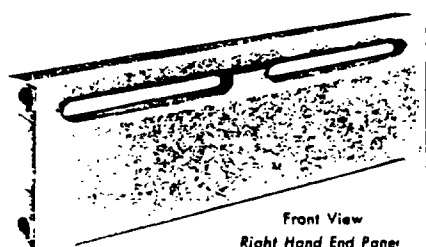
The design of Radiantrim Panels reflects years of American-Standard research in the use and effect of radiant heat. Each panel is backed with an array of fins. Such design not only permits the combined advantages of both radiant and convected heat, but also increases the rate of heat transmission. Radiantrim Panels assure maximum transfer of heat to surrounding air, thus providing better comfort at reduced cost. They offer quick comforting response to the thermostat's call for heat—and there is no uncomfortable lag or over-ride after the demand has been satisfied.

MADE OF CAST IRON

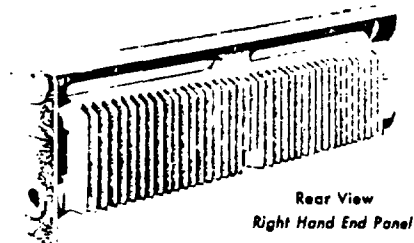
Radiantrim Panels promise lifetime service because they are made of cast iron, the metal that has proven its enduring qualities. Cast iron is also known as an excellent conductor of heat, which accounts in part for the high heat output and effectiveness of Radiantrim Panels. And all panels have the smoothly finished front surface so essential to good appearance and a smart, trim installation.

SPACE SAVING

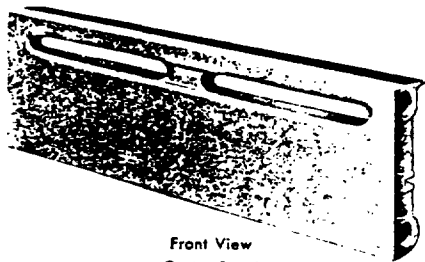
These cast iron panels can be partially or fully recessed, normally to the depth of the lath and plaster. When so installed, Radiantrim Panels extend into the room little more than an inch—by comparison, about the width of a fifty-cent piece.



Front View
Right Hand End Panel



Rear View
Right Hand End Panel



Front View
Center Panel

For better home heating choose from the complete line of

RADIATOR HEATING EQUIPMENT

by **AMERICAN-Standard**

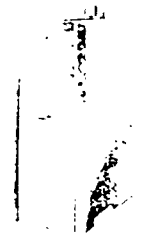
With complete confidence of getting years of dependable, trouble-free performance you can choose from a wide variety of boilers, radiators, and heating accessories by American-Standard. For American-Standard boilers come in many models and sizes and are made for every fact. Such a wide selection is your assurance of getting the right unit to meet your particular needs. When selecting your American-Standard boiler specify American-Standard accessories, too. Be sure of quality all the way.



SUNRAD RADIATOR



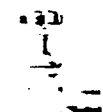
ARCO RADIATOR



ARCOLINER BOILER



No. 902
CIRCULATOR VALVE



No. 993
GATE VALVE



No. 999
ANGLE VALVE



No. 217
CIRCULATOR VALVE



STANDARD BOILER



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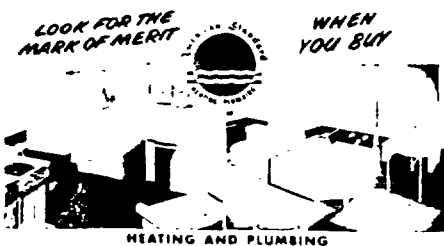
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CONSULT YOUR HEATING RETAILER

For further information regarding Radiant Panels, boilers or heating accessories see your heating retailer. Through his expert knowledge and experience he is well qualified to give you full information on cost and installation of these and other American-Standard products.

CONVENIENT PAYMENTS

You can enjoy the benefits of modern heating and plumbing now. All American-Standard products are available on easy monthly payments for modernization. Ask your heating retailer to tell you about the easy time payment plan. There's no red tape and he will gladly handle all details.



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American-Standard products, including Radiant Panels, are available to the same uniformly high quality and backed by the technical experience and manufacturing skill of the American Radiator & Standard Sanitary Corporation, a name synonymous with heating and comfort.

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