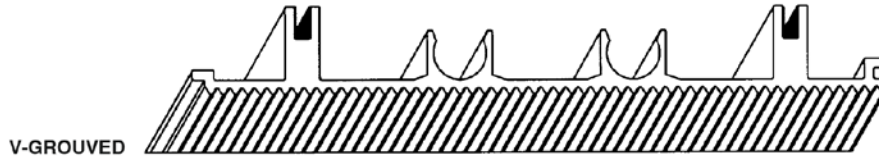
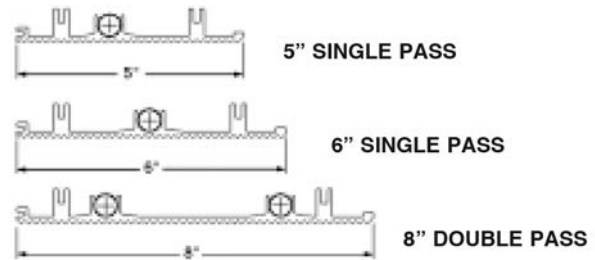


LINEAR CEILING RADIANT PANELS



EXTRUDED SECTIONS

Rosemex linear Radiant Panels are constructed from the aluminum extrusions shown. Any 1 inch incremental panel width from 5 to 36" wide can be constructed from a combination of 5", 6" or 8" radiant extrusions. Panel lengths can be provided to suit perimeter planning modules up to 8 ft. long. For additional custom extruded sections, contact Rosemex.



PERIMETER HEATING PERFORMANCE

MEAN WATER TEMPERATURE °F	PANEL WIDTH											
	6" 1 TUBE	8" 2 TUBES	10" 2 TUBES	12" 2 TUBES	15" 3 TUBES	16" 4 TUBES	18" 3 TUBES	18" 4 TUBES	20" 4 TUBES	24" 4 TUBES	30" 5 TUBES	36" 5 TUBES
120	47	61	65	70	82	90	97	118	130	146	155	200
125	56	72	76	84	104	108	117	137	159	172	185	235
130	65	82	91	100	117	126	136	155	177	196	214	267
135	72	92	110	113	137	144	156	175	194	220	243	300
140	81	102	117	127	158	163	175	194	208	245	273	334
145	89	113	130	142	176	180	193	212	227	270	302	368
150	96	122	145	157	193	200	213	231	247	294	332	401
155	105	132	157	172	211	218	233	250	267	319	362	434
160	114	142	172	185	228	236	252	263	286	343	390	469
165	121	153	185	200	245	254	272	287	306	367	420	503
170	130	163	199	214	264	273	291	306	325	393	450	535
175	137	173	212	228	281	290	310	325	344	417	480	569
180	144	184	225	243	299	310	329	344	365	442	509	603
185	153	193	239	258	316	328	348	353	384	467	538	636
190	162	203	253	272	334	346	369	382	403	491	568	669
195	170	214	267	287	351	365	388	401	423	516	598	703
200	177	223	280	301	369	383	407	419	442	540	627	737
205	187	233	294	315	387	401	426	438	453	565	657	770
210	195	242	307	328	400	420	445	458	482	589	686	804
215	203	255	321	343	422	438	465	475	501	619	715	837
220	211	265	335	359	439	458	485	495	520	638	745	872

* Heating performance shown in BTUH / Linear foot of panel.

* Outputs for panel widths not shown may be interpolated from above table. Performance based on 70°F Air temperature, 67°F AUST. with natural convection. One inch thick three quarter pound density fiberglass insulation was placed on the reverse side of the panels. Select the most economical panel width which will satisfy the heat loss by adjusting the Average Water Temperature (AWT).

COOLING PERFORMANCE

ROOM AIR TEMPERATURE MINUS MWT °F	BTUH/SQUARE FOOT OF PANEL						ROOM AIR TEMPERATURE MINUS MWT °F	BTUH/SQUARE FOOT OF PANEL					
	A	B	C	D	E	F		A	B	C	D	E	F
10	17	21	28	35	38	40	20	35	40	46	52	55	57
11	19	23	30	37	40	42	21	37	42	48	54	57	58
12	21	25	31	38	41	43	22	39	43	50	56	59	60
13	22	27	33	40	43	45	23	40	45	52	58	61	62
14	24	28	35	42	45	47	24	42	47	53	59	62	63
15	26	30	38	44	47	48	25	44	49	55	61	64	65
16	28	32	39	45	48	50	26	46	51	56	63	66	67
17	30	34	41	47	50	52	27	48	53	58	64	67	68
18	31	36	43	49	52	53	28	49	55	60	65	69	72
19	33	38	45	50	54	55							

CONDITION:

A. Interior room.

B. No glass exterior wall in sun or fully shaded glass and wall.

C. 25% clear glass exterior wall in sun.

D. 50% clear glass exterior wall in sun.

E. 75% clear glass exterior wall in sun.

F. 100% clear glass exterior wall in sun.

PRESSURE DROP (IMPERIAL)

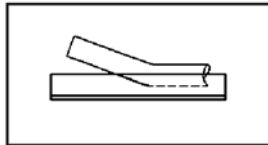
GPM/ TUBE	FT./ 100	GPM/ TUBE	FT./ 100	GPM/ TUBE	FT./ 100	GPM/ TUBE	FT./ 100	GPM/ TUBE	FT./ 100
0.05	0.01	0.65	1.47	1.25	4.93	1.85	10.18	2.45	17.12
0.10	0.05	0.70	1.69	1.30	5.30	1.90	10.70	2.50	17.77
0.15	0.10	0.75	1.92	1.35	5.68	1.95	11.22	2.55	18.44
0.20	0.17	0.80	2.16	1.40	6.08	2.00	11.76	2.60	19.11
0.25	0.25	0.85	2.42	1.45	6.49	2.05	12.31	2.65	19.80
0.30	0.35	0.90	2.68	1.50	6.91	2.10	12.87	2.70	20.49
0.35	0.47	0.95	2.97	1.55	7.34	2.15	13.45	2.75	21.20
0.40	0.60	1.00	3.26	1.60	7.78	2.20	14.03	2.80	21.92
0.45	0.74	1.05	3.57	1.65	8.24	2.25	14.63	2.85	22.65
0.50	0.91	1.10	3.89	1.70	8.71	2.30	15.23	2.90	23.99
0.55	1.08	1.15	4.23	1.75	9.19	2.35	15.85	2.95	24.14
0.60	1.27	1.20	4.57	1.80	9.68	2.40	16.48	3.00	24.90

- WPD in height of water column per length of panel tubing for a given flow rate.
- To ensure air removal at start-up, design flow rates below 0.5 USGPM are not recommended.
- For Rosemex 360-loop add 18" to tubing length.
- Pressure drop in Rosemex return bends may be ignored.
- Adjust flow for glycol solutions compensating for specific heat and specific gravity.

TUBING CONNECTORS

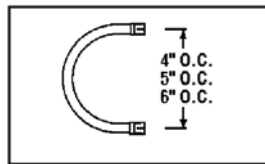
Rosemex supplies a variety of interconnects to accommodate most situations. All interconnects are presized to fit panel tubing without fittings.

PIPING COMPONENTS



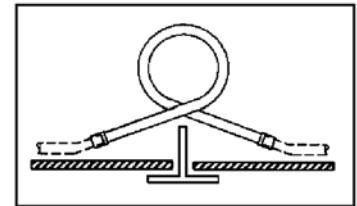
**Typical connection for supply, return and trimmed panels
(Provided by other)**

Size panel tubing to accept type L or M 1/2 O.D. soft copper tubing. Slip into panel tubing elevated to the connected position. Typical soldered joint.



Rosemex Return Bends

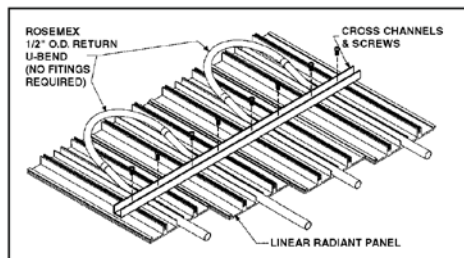
Install, and solder in place, factory supplied Rosemex return bends as illustrated. No fitting required.



Rosemex 360-loop

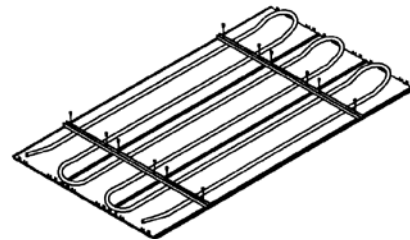
Install, and solder in place. 360-loops ends are sized to accept panel tubes with no fitting.

PANNEL ASSEMBLY ON SITE



- Put together the number of section of 5", 6", or 8" needed.
- Screw cross channels at the position desired as illustrated.
- Install, and solder in place U-bends.

PANNEL PRE-ASSEMBLED 2' X 4' ONLY



Simple installation and maintenance free:

Pre-assembled panel are manufactured to suit ceiling grids with a standard 24" x 48".

LINEAR CEILING PANELS SUSPENSION DETAILS

This detail compensates for an uneven outer wall or perimeter obstructions and permits a better view factor of the glass by the panel.

Typical window pocket installation where panel is higher than ceiling. Channel moulding on one side and angle wall moulding on the other. Similarly, this detail may be used for a drop soffit where panel is lower than balance of ceiling.

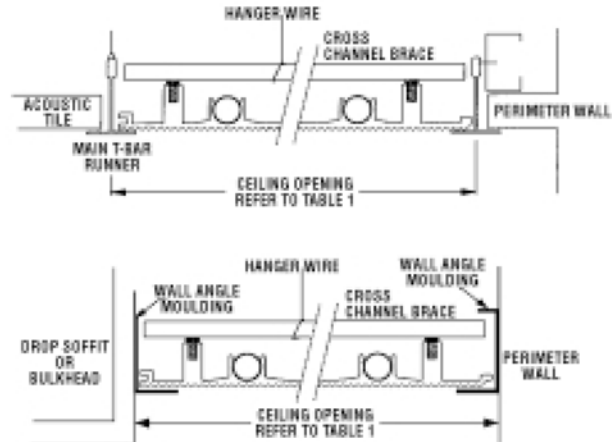
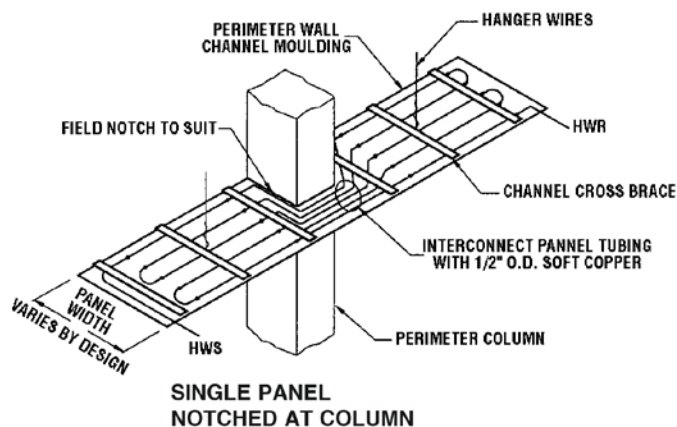


TABLE 1
LINEAR PANEL CEILING OPENING SCHEDULE

NOMINAL PANEL WIDTH (inches)	CEILING OPENING: add dimension below to nominal width (inches)
Less than 15"	1/4
15" to 19"	3/16
20" to 24"	1/8
25 to 29	1/16
30" to 36"	0

LINEAR PANELS AT PERIMETER OBSTRUCTIONS



PANEL INTERCONNECT AT MITRED CORNER

