7 Layout Suggestions

Proper Size Selection and Layout

It's not always easy to decide how big a walk-in you need. Unfortunately, there is no simple formula to guide everyone. Restaurants with varied menus need more refrigerated space per patron than cafeterias serving a simple lunch. Rural eating-places may need more storage capacity than city establishments which receive frequent deliveries. Retailers, wholesalers and manufacturers in the many industries that use walk-ins must be guided by their own experience and knowledge.

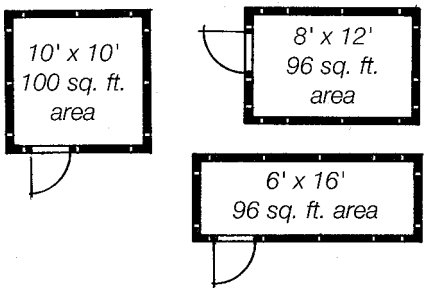
A Rule of Thumb

The rule of thumb for food service establishments is one cubic foot of storage space per person per meal. When frozen foods are used, figure ½ cubic foot of normal temperature and ½ cubic foot of low temperature space.

When determining space requirements consider what proportions of medium-temperature and low temperature space you'll need. Also, think about whether you'll want individual compartments. Many kitchens find it helpful to have separate sections for dairy products, vegetables, baked goods and so on.

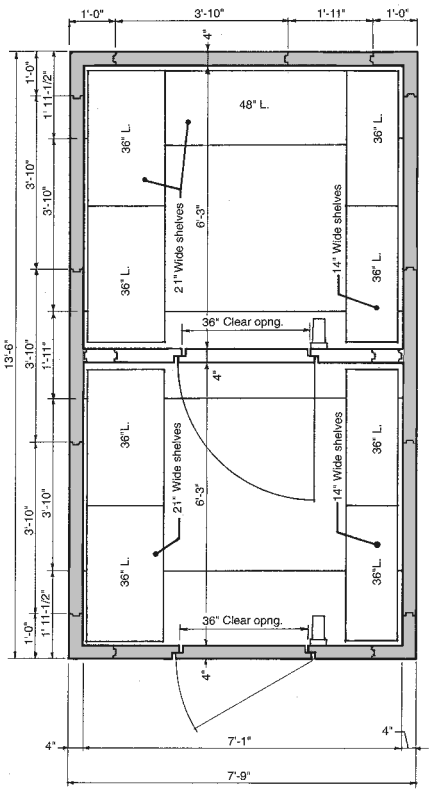
After you've decided on capacity, consider height. Standard walk-in heights are 7'6", 8'6", 9'6", 10'6" and 11'6". For installations in spaces with low ceilings, 6'6" -high walk-ins are available for refrigerated buildings. (See the chart on page 5, section 6.)

When total desired capacity and height have been determined, it's simple to compute floor area. At this point it's necessary to determine the width and length desired. Best use of available space should determine this decision. Following are three drawings, which illustrate different combinations of width and length, all having approximately the same area. Consult your Bally representative for help in determining the configuration that best suits your operation.



Ceiling panels up to 10' long will support a snow load of 40 lbs. per sq. ft. Ceiling panels 12' long will support a snow load of 30 lbs. per sq. ft. Bally supplies optional reinforced ceiling panels. For more information, call the factory for details on any specific application.

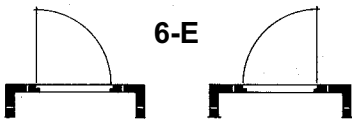
Roughing-in Dimensions



PLAN VIEW 7' 9" X 13' 6"
COMBINATION W/ 4" THICK WALLS

Locating Doors

With the exception of corners, all Bally panels (including door panels) are made in multiples of 11-1/2" in width. All verticals are interchangeable. Doors should be located where they will provide the most convenient access and reduce storage space the least. Doors are available with right-hand or left-hand swing.

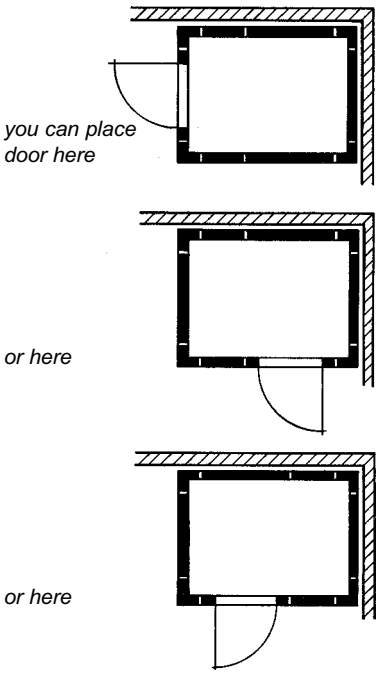


Right-hand swing Left-hand swing

Left-or right-hand sliding doors can also be supplied.

Left-hand slide Right-hand slide

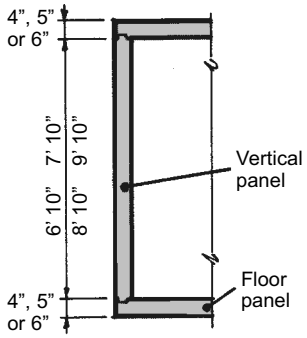
Door Panels are Interchangeable with Other Panels



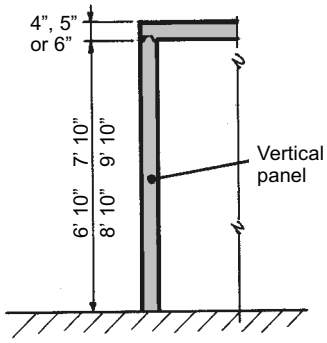
Vertical Panels Can Be Installed Two Ways

1. **With floor panels.** This method is most desirable as it provides the best insulation value without disturbing existing building floors.
2. **Without floor panels.** Vertical panels are constructed with flat bottoms which allow the panels to set directly on the concrete building floor. This arrangement can be used on all installations where height adjustment is not necessary.

Vertical panel height is same for 4”, 5” or 6” panels; however, overall walk-in height is increased if 5” or 6“ floor or ceiling panels are used. See drawing below.



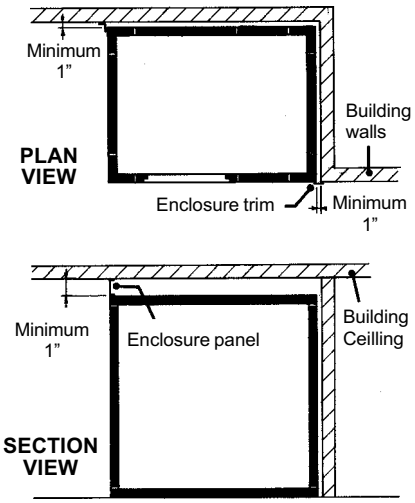
1. WITH FLOOR PANEL



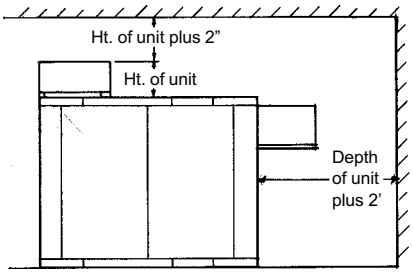
2. WITHOUT FLOOR PANEL

SECTION THRU HEIGHT

Clearance Requirements



A minimum space of 1” is required (4” is recommended) between Bally walls and ceilings and the walls and ceilings of existing buildings. This space accounts for deviations in building construction and also provides space for air circulation to prevent moisture accumulation. Forced ventilation may be required in dead spaces without natural air movement.



Where ceiling-mounted, self-contained refrigeration units are used, a minimum clearance of 2” plus the height of the unit is required between the top of the condensing unit and the building ceiling for proper air circulation and ease of maintenance. Side-mounted units require clearance from walk-in walls of 2’ plus the depth of the unit.

Loading Limits

For proper refrigeration efficiency it is always necessary to provide adequate space above the stored product to allow for air circulation. A rule-of-thumb guide to space required follows:

Height of Walk-In or Refrigerated Building	Space Between Ceiling and Top of Product
7'6"	12"
8'6"	18"
9'6", 10'6", 12'6"	24"
14' and above	30"

7 Layout Suggestions

Panel Size And Weight

Galvalume weights (lbs.)

Description Of Sections	Bright Galvalume Steel (Interior & Exterior)										
	6'-10"	7'-10"	8'-10"	9'-10"	11'-4"	12'-4"	13'-4"	14'-4"	15'-4"	16'-4"	17'-4"
12' x 12" Corner	46	51	56	63	74	81	88	95	102	109	116
11-1/2" Panel	29	32	35	37	42	45	48	51	54	57	60
23" Panel	49	56	62	73	90	101	112	123	134	145	156
46" Panel	99	110	121	140	178	197	216	235	254	273	292
8" Part. Section	20	23	26	31	39	44	49	54	59	64	69
46" Door Panel 36" x 78" Hinged	194	210	226	242	278	297	316	335	354	373	392
69" Door Panel 36" x 78" Hinged	245	262	279	296	364	394	424	454	484	514	544
69" Door Panel 60" (48") x 84" Hinged 78" high	322	349	366	398	459	489	519	549	579	609	639

Description of Sections	Ceiling Panel			Floor Panel		
	11-1/2"	23"	46"	11-1/2"	23"	46"
5'-10" (70")	23	43	86	31	61	124
6'- 9-1/2" (81-1/2")	27	51	95	38	73	144
7'-9" (93")	30	58	103	44	85	183
8'- 8-1/2" (104-1/2")	34	65	119	49	97	182
9'-8" (116")	37	71	135	54	108	201
10'- 7-1/2" (127-1/2")	42	78	149	62	117	228
11'-7" (139")	46	84	163	68	125	254
12'- 6-1/2" (150-1/2")	50	91	176	74	135	275
13'-6" (162")	54	98	189	80	145	296
14'- 5-1/2" (173-1/2")	58	105	202	86	155	317
15'-5" (185")	62	112	215	92	165	338
16'- 4-1/2" (196-1/2")	66	119	228	98	175	359
17'-4" (208")	70	126	241	104	185	380

Aluminum weights (lbs.)

Description Of Sections	Stucco Embossed Aluminum (Interior & Exterior)										
	6'-10"	7'-10"	8'-10"	9'-10"	11'-4"	12'-4"	13'-4"	14'-4"	15'-4"	16'-4"	17'-4"
12' x 12" Corner	29	32	35	40	48	53	58	63	68	73	78
11-1/2" Panel	18	20	22	26	30	34	38	42	46	50	54
23" Panel	26	32	38	45	56	63	70	77	84	91	98
46" Panel	58	65	72	85	105	118	131	144	157	170	183
8" Part. Section	13	15	17	19	22	24	26	28	30	32	34
46" Door Panel 36" x 78" Hinged	150	158	166	174	195	208	221	234	247	260	273
69" Door Panel 36" x 78" Hinged	177	189	201	212	251	271	291	311	331	351	371
69" Door Panel 60" (48") x 84" Hinged 78" high	257	279	292	305	341	361	381	401	421	441	461

Description of Sections	Ceiling Panel			Floor Panel		
	11-1/2"	23"	46"	11-1/2"	23"	46"
5'-10" (70")	13	26	52	32	55	96
6'- 9-1/2" (81-1/2")	16	30	60	38	62	115
7'-9" (93")	19	34	87	39	68	134
8'- 8-1/2" (104-1/2")	21	38	74	42	80	153
9'-8" (116")	23	42	81	45	91	172
10'- 7-1/2" (127-1/2")	25	47	90	52	99	186
11'-7" (139")	27	52	99	58	109	200
12'- 6-1/2" (150-1/2")	29	56	107	63	118	216
13'-6" (162")	31	60	115	68	127	232
14'- 5-1/2" (173-1/2")	33	64	123	73	136	248
15'-5" (185")	35	68	131	78	145	264
16'- 4-1/2" (196-1/2")	37	72	139	83	154	280
17'-4" (208")	39	76	147	88	163	296

BACK PRINT

7 Layout Suggestions

Outside Actual Size
3'11"
4'10-1/2"
5'10"
6'9-1/2"
7'9"
8'8-1/2"
9'8"
10'7-1/2"
11'7"
12'6-1/2"
13'6"
14'5-1/2"
15'5"
16'4-1/2"
17'4"
18'3-1/2"
19'3"
20'2-12"
21'2"
22'1-1/2"
23'1"
24'1/2"
25'0"
25'11-1/2"
26'11"
27'10-1/2"
28'10"
29'9-1/2"
30'9"
31'8-1/2"
32'8"
33'7-1/2"
34'7"
35'6-1/2"
36'6"
37'5-1/2"
38'5"
39'4-1/2"
40'4"
41'3-1/2"

Outside Actual Size
42'3"
43'2-1/2"
44'2"
45'1-1/2"
46'1"
47'1/2"
48'0"
48'11-1/2"
49'11"
50'10-1/2"
51'10"
52'9-1/2"
53'9"
54'8-1/2"
55'8"
56'7-1/2"
57'7"
58'6-1/2"
59'6"
60'5-1/2"
61'5"
62'4-1/2"
63'4"
64'3-1/2"
65'3"
66'2-1/2"
67'2"
68'1-1/2"
69'1"
70'1/2"
71'0"
71'11-1/2"
72'11"
73'10-1/2"
74'10"
75'9-1/2"
76'9"
77'8-1/2"
78'8"
79'7-1/2"
80'7"

Outside Actual Size
81'6-1/2"
82'6"
83'5-1/2"
84'5"
85'4-1/2"
86'4"
87'3-1/2"
88'3"
89'2-1/2"
90'2"
91'1-1/2"
92'1"
93'1/2"
94'0"
94'11-1/2"
95'11"
96'10-1/2"
97'10"
98'9-1/2"
99'9"
100'8-1/2"
101'8"
102'7-1/2"
103'7"
104'6-1/2"
105'6"
106'5-1/2"
107'5"
108'4-1/2"
109'4"
110'3-1/2"
111'3"
112'2-1/2"
113'2"
114'1-1/2"
115'1"
116'1/2"
117'0"
117'11-1/2"