

INSTALLATION GUIDE

IMPORTANT
Before installing the tiles and crossbars, open the boxes and allow the material to acclimatize to the room at least 48 hours.

WARNING

The recommended humidity level for installing an Embassy ceiling is between 45 and 55%. The tiles and crossbars are covered with a polypropylene sheet. This material is not completely waterproof but still has good tolerance to moisture when installed in a damp room such as a well-ventilated bathroom, basement or cottage. It is not recommended to install the product in a place where it will be in direct contact with water. We recommend avoiding fitting the tiles too tightly along the walls to allow components to expand and contract with changes in humidity levels.

FOR ROOMS WITH A LARGE CEILING SPACE: The main crossbars should never be installed over a length greater than 10.668 m (35 ft). If the room is more than 10.668 m (35 ft) in length, then divide it into two or more sections.

The Embassy ceiling system is not recommended for cathedral ceilings with a pitch of more than 4/12. If the joists are made of 2"x 10" or 2"x 8", we recommend to install 5/8" wood strips, to avoid pendulum effect in the joists. This pendulum effect may produce a noise in the ceiling.

INSTALLATION GUIDE



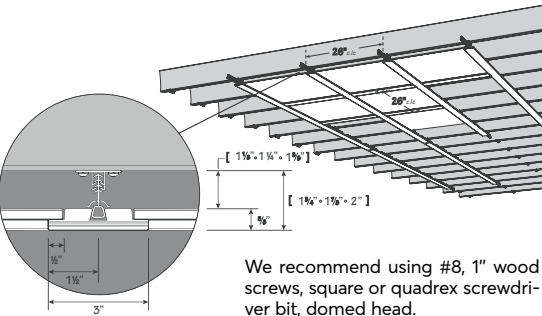
01 PRERARE THE INSTALLATION

Locate the center of the ceiling space to be covered and use a chalk line to draw the room's center line. Note that the **main crossbars** (fig. D) must be installed in the **opposite** direction of the joists.

Next, visualize how the tiles will be placed (fig. E) by arranging them on the floor, leaving about a 2" space between each tile. Determine if you have to install the ceiling beginning with centered tiles or centered crossbars

02 INSTALL THE ANCHORS

Starting in the center of the room, install anchors (fig. A) on every joist using the installation template (fig. F). This template allows you to measure the correct distance between the anchors as well as between the anchors and the wall. Anchors must be installed on EVERY joist. Note that the distance between 2 anchors on the same main crossbar should never exceed 24". If the joists are not level, add furring strips to level.



TRICKS

Finishing along side walls

- Secure the last row of main crossbars against the wall.
- Measure the length needed between the last main crossbar and the wall, and the previous one, and cut your secondary crossbar accordingly. It is important to make a tight cut in order to solidify the whole structure, to reduce the movements of components.
- When cutting the last row of tiles for the open spaces along side walls, avoid fitting them too tightly. Leaving a space between the tile and the secondary crossbar will allow the MDF to adjust to the humidity level.
- Because you have cut one end of a secondary crossbar, you will have to add a tenon so it can be inserted between the last two main crossbars.

How to create a tenon when cutting a secondary crossbar

Use a 2" x 3" inch cut of a tile and attach it to the raw MDF side of the cut end of the secondary crossbar. This will allow the cut off piece to reach the highest part of the main crossbar.

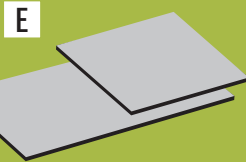
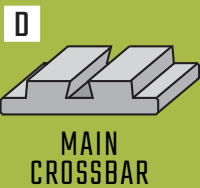
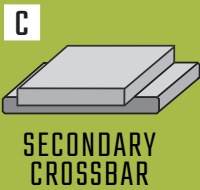
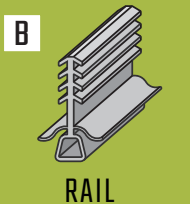
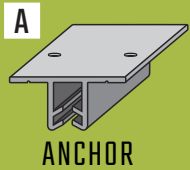
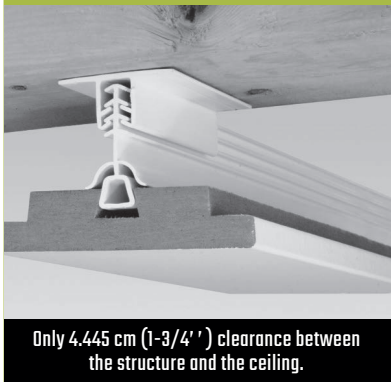
How to create an outside corner

To make an outside corner, cut the end of your main crossbar and secondary crossbar at 45 degree angles. Attach a tile off-cut where the two crossbars meet at the 45 degree angle to hold and secure the joint.

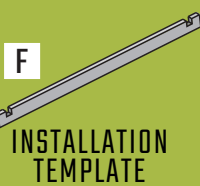
Installing recessed spot lights

Most recessed spot lights are designed to be installed on standard suspended ceiling tiles or on drywall that is 1/2" thick. Since Embassy tiles are 1/4" thick, we suggest using tile cut-offs (such as those from making the holes) to create a 1/2" inch layer of MDF placed under the tightening brackets of the spot lights.

*** When making a dowel or an outside corner piece, we recommend using shorter screws such as 1/2 inch.**



TILES : 2x2 ou 2x4



PATENT :

CA: # 2588300 - # 2754550 - # 2855427 - # 2837410
2855430 - # 2833714 - # 3022306
US: # 9340976 - # 9670674 - # 9081053 - # 9243405
10557265
EU: # EP2721226



Embassy Ceilings

EASY AS EMBASSY



SUSPENDED CEILING SYSTEM IN MDF WRAPPED WITH POLYPROPYLENE

- Quick and easy installation
- Durable and easy to clean laminated MDF
- Allows a clearance of 1-3/4"
- No visible nails or screws
- Stable rails and anchors system with adjustable height
- Easy access to ducts, pipes and electrical cables
- Compatible with recessed lighting

Tiles
• 2x2
• 2x4



QUANTITY
CALCULATOR



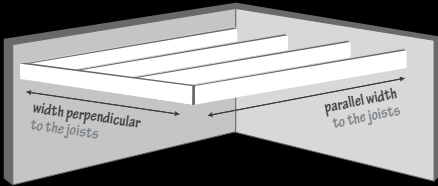
STEPS

01 ROOM DIMENSIONS

Use the «Room dimensions grid» on the right to find the ceiling's dimensions. If the exact dimensions are not listed, use the next largest numbers.

02 QUANTITY

Use this result from the «Room dimensions grid» (step 2) to find the corresponding number in the left column of the «Quantity table» for the various quantities you will need for your ceiling.



STANDARDS AND PROPERTIES

Please note that this range of Embassy Ceilings meets the Class C criteria according to ASTM E84. Embassy suspended ceilings acoustic and soundproofing properties are similar to gypsum.

WARNING
2 x 2 | 2 x 4

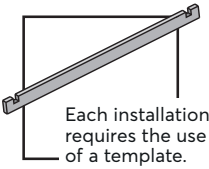
Depending on your room's configuration, these grids include at least a 5% overhang. These grids are based on a central installation. Feel free to consult our online calculators available on our website.

CUSTOMER SERVICE | TECHNICAL SUPPORT

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MODEL	DESCRIPTION	Qty/pkg
P22WHB	White tile, 2' X 2'	4 pcs
P24WHB	White tile, 2' X 4'	4 pcs
M200WHB	White main crossbar	10 pcs
C201WHB	White secondary crossbar	10 pcs
RA20B	Rail & Anchor	10 of each
G200	Installation Template	1 pc

Width of the wall parallel to the joists (equivalent to the smallest dimension)	from 28 ⁵ / ₁₂ to 30 ⁷ / ₁₂														105	
	from 26 ³ / ₁₂ to 28 ⁵ / ₁₂													103	104	
	from 24 ¹ / ₁₂ to 26 ³ / ₁₂												100	101	102	
	from 21 ¹¹ / ₁₂ to 24 ¹ / ₁₂											96	97	98	99	
	from 19 ⁹ / ₁₂ to 21 ¹¹ / ₁₂									91	92	93	94	95		
	from 17 ⁷ / ₁₂ to 19 ⁹ / ₁₂								85	86	87	88	89	90		
	from 15 ⁵ / ₁₂ to 17 ⁷ / ₁₂							78	79	80	81	82	83	84		
	from 13 ³ / ₁₂ to 15 ⁵ / ₁₂						70	71	72	73	74	75	76	77		
	from 11 ¹ / ₁₂ to 13 ³ / ₁₂					61	62	63	64	65	66	67	68	69		
	from 8 ¹¹ / ₁₂ to 11 ¹ / ₁₂				51	52	53	54	55	56	57	58	59	60		
	from 6 ⁹ / ₁₂ to 8 ¹¹ / ₁₂			40	41	42	43	44	45	46	47	48	49	50		
	from 4 ⁷ / ₁₂ to 6 ⁹ / ₁₂		28	29	30	31	32	33	34	35	36	37	38	39		
	from 2 ⁵ / ₁₂ to 4 ⁷ / ₁₂	15	16	17	18	19	20	21	22	23	24	25	26	27		
	from 0 to 2 ⁵ / ₁₂	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
		from 0 to 2 ⁵ / ₁₂		from 2 ⁵ / ₁₂ to 4 ⁷ / ₁₂	from 4 ⁷ / ₁₂ to 6 ⁹ / ₁₂	from 6 ⁹ / ₁₂ to 8 ¹¹ / ₁₂	from 8 ¹¹ / ₁₂ to 11 ¹ / ₁₂	from 11 ¹ / ₁₂ to 13 ³ / ₁₂	from 13 ³ / ₁₂ to 15 ⁵ / ₁₂	from 15 ⁵ / ₁₂ to 17 ⁷ / ₁₂	from 17 ⁷ / ₁₂ to 19 ⁹ / ₁₂	from 19 ⁹ / ₁₂ to 21 ¹¹ / ₁₂	from 21 ¹¹ / ₁₂ to 24 ¹ / ₁₂	from 24 ¹ / ₁₂ to 26 ³ / ₁₂	from 26 ³ / ₁₂ to 28 ⁵ / ₁₂	from 28 ⁵ / ₁₂ to 30 ⁷ / ₁₂



Tile
2x2

01

ROOM
DIMENSION CHART

(measurements in feet, inches)

02

QUANTITY
TABLES

RESULT GRID	TILES 2'X2'	MAIN CROSSBAR	SECONDARY CROSSEBAR	RAILS & ANCHORS
1	2	1	3	6
2	3	2	5	12
3	4	2	7	12
4	5	3	9	18
5	6	3	11	18
6	7	4	13	24
7	8	5	15	30
8	9	5	17	30
9	10	6	19	36
10	11	6	21	36
11	12	7	24	42
12	13	7	26	42
13	14	8	28	48
14	15	9	30	54
15	5	4	9	18
16	7	5	13	24
17	9	6	17	30
18	11	7	21	36
19	13	8	26	42
20	15	9	30	54
21	17	10	34	60

RESULT GRID	TILES 2'X2'	MAIN CROSSBAR	SECONDARY CROSSEBAR	RAILS & ANCHORS
22	19	12	38	66
23	21	12	42	72
24	24	13	47	78
25	26	14	51	84
26	28	16	55	90
27	30	17	59	102
28	10	5	16	30
29	13	6	21	36
30	16	8	27	48
31	19	10	32	54
32	23	11	37	66
33	26	12	42	72
34	29	15	48	78
35	32	15	53	90
36	35	16	58	96
37	38	18	63	108
38	41	20	69	114
39	45	21	74	126
40	17	7	26	42
41	21	9	32	54
42	26	12	38	66

RESULT GRID	TILES 2'X2'	MAIN CROSSBAR	SECONDARY CROSSEBAR	RAILS & ANCHORS
43	30	13	45	78
44	34	14	51	84
45	38	18	57	96
46	42	18	63	108
47	47	19	70	114
48	51	21	76	126
49	55	24	82	138
50	59	25	89	150
51	27	11	37	66
52	32	14	45	78
53	37	15	52	90
54	42	17	59	102
55	48	21	67	114
56	53	21	74	126
57	58	23	81	138
58	63	25	89	150
59	69	28	96	162
60	74	29	103	174
61	38	16	51	84
62	45	18	59	102
63	51	20	68	114

RESULT GRID	TILES 2'X2'	MAIN CROSSBAR	SECONDARY CROSSEBAR	RAILS & ANCHORS
64	57	24	76	126
65	63	24	84	144
66	70	26	93	156
67	76	28	101	168
68	82	32	110	180
69	89	33	118	198
70	52	19	67	114
71	59	21	76	126
72	67	27	86	144
73	74	27	95	156
74	81	29	104	174
75	89	32	114	192
76	96	36	123	204
77	103	37	133	222
78	68	24	84	138
79	76	30	95	156
80	84	30	105	174
81	93	32	116	192
82	101	35	126	210
83	110	40	137	228
84	118	41	147	246

RESULT GRID	TILES 2'X2'	MAIN CROSSBAR	SECONDARY CROSSEBAR	RAILS & ANCHORS
85	86	33	104	174
86	95	36	116	192
87	104	39	128	210
88	114	42	139	228
89	123	45	151	252
90	133	48	162	270
91	105	36	126	210
92	116	39	139	228
93	126	42	152	252
94	137	48	164	270
95	147	50	177	294
96	128	42	151	252
97	139	46	164	270
98	151	52	178	294
99	162	54	192	318
100	152	49	177	294
101	164	56	192	318
102	177	58	206	342
103	178	60	205	336
104	192	64	221	366
105	206	66	236	390

Tile
2x4

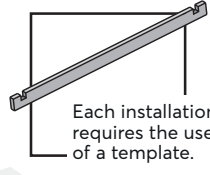
01

ROOM
DIMENSION CHART

(measurements in feet, inches)

02

QUANTITY
TABLES



Width of the wall parallel to the joists (equivalent to the smallest dimension)

from 28 5/12 to 30 7/12	105	106	107	108	109	110	111	112
from 26 3/12 to 28 5/12	97	98	99	100	101	102	103	104
from 24 1/12 to 26 3/12	89	90	91	92	93	94	95	96
from 21 11/12 to 24 1/12	81	82	83	84	85	86	87	88
from 19 9/12 to 21 11/12	73	74	75	76	77	78	79	80
from 17 7/12 to 19 9/12	65	66	67	68	69	70	71	72
from 15 5/12 to 17 7/12	57	58	59	60	61	62	63	64
from 13 3/12 to 15 5/12	49	50	51	52	53	54	55	56
from 11 1/12 to 13 3/12	41	42	43	44	45	46	47	48
from 8 11/12 to 11 1/12	33	34	35	36	37	38	39	40
from 6 9/12 to 8 11/12	25	26	27	28	29	30	31	32
from 4 7/12 to 6 9/12	17	18	19	20	21	22	23	24
from 2 5/12 to 4 7/12	9	10	11	12	13	14	15	16
from 0 to 2 5/12	1	2	3	4	5	6	7	8

Width of the wall perpendicular to the joists (equivalent to the largest dimension)

RESULT GRID	TILES 2'X4'	MAIN CROSSBAR	SECONDARY CROSSEBAR	RAILS & ANCHORS
1	2	2	3	12
2	3	3	5	18
3	4	4	6	24
4	5	5	7	30
5	6	6	8	36
6	7	7	9	42
7	8	8	10	48
8	9	9	11	54
9	3	4	5	18
10	5	5	9	30
11	7	8	11	42
12	9	9	13	54
13	11	12	15	72
14	13	14	17	84
15	15	16	19	96
16	16	17	21	102
17	4	5	7	18
18	7	6	13	36
19	10	10	16	54
20	13	12	19	72
21	16	15	23	84
22	19	17	26	102
23	23	20	29	120
24	24	21	32	126
25	5	6	9	24
26	9	7	17	42
27	13	12	21	66
28	17	14	26	84

RESULT GRID	TILES 2'X4'	MAIN CROSSBAR	SECONDARY CROSSEBAR	RAILS & ANCHORS
29	21	18	30	102
30	26	20	34	120
31	30	24	38	144
32	31	25	42	150
33	6	7	11	30
34	11	8	21	48
35	16	14	27	72
36	21	16	32	96
37	27	21	37	120
38	32	24	42	144
39	37	28	48	168
40	38	29	53	174
41	7	8	13	30
42	13	10	26	60
43	19	16	32	84
44	26	18	38	108
45	32	24	45	138
46	38	27	51	162
47	45	32	57	186
48	46	33	63	198
49	8	9	15	36
50	15	11	30	66
51	23	18	37	96
52	30	21	45	120
53	37	27	52	150
54	45	30	59	180
55	52	36	67	210
56	54	37	74	222

RESULT GRID	TILES 2'X4'	MAIN CROSSBAR	SECONDARY CROSSBAR	RAILS & ANCHORS
57	9	10	17	36
58	17	12	34	72
59	26	20	42	102
60	34	23	51	138
61	42	30	59	168
62	51	34	68	204
63	59	40	76	234
64	61	41	84	246
65	10	11	19	42
66	19	13	38	78
67	29	22	48	114
68	38	25	57	150
69	48	33	67	186
70	57	37	76	222
71	67	44	86	258
72	69	46	95	270
73	11	12	21	42
74	21	14	42	84
75	32	24	53	126
76	42	27	63	162
77	53	36	74	204
78	63	40	84	240
79	74	48	95	282
80	76	50	105	294
81	12	13	24	48
82	24	15	47	90
83	35	26	58	132
84	47	30	70	174