## INSTALLATION

## IMPORTANT

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



The recommended humidity level for installing an Embassy ceiling is between 45 and 55%. The panels 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 panels 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

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











0

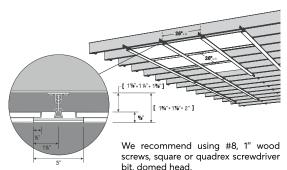
## 01 PRERARE THE INSTALLATION

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

## 02 INSTALL THE ANCHORS

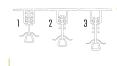
Starting in the center of the room, install anchors (fig. A) on every joist using the installation template (fig. F). This template allows you to measure the correct distance between the anchors as well as between the anchors and the wall. Anchors must be installed on EVERY joist. Note that the distance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



## 03 INSTALL THE RAILS

Now slide the rails (fig. B) into the main crossbar (fig. D). You will need 6 rails per full length main crossbar.

Because the rails have to support the weight of the ceiling, it is important to always use the required number of rails



The rail and anchor system allows you to slightly level your ceiling if needed. Note that it is not recommended to install your entire ceiling on the last level of the rail (3). For a safe and secure installation, the rail must be on the first two levels

## 04 INSTALL THE MAIN CROSSBARS

You can now install the main crossbars (fig. D) by sliding the rails (fig. B) into the anchors (fig. A) that have been secured to the joists across the entire span of the room. To avoid any pendulum effects during installation, we recommend that you install the main crossbars followed by 1 or 2 rows of secondary crossbars (fig. C), including any cut crossbars. To fit the crossbars together use the tongue & groove portions and slide a rail into place at every joint.

## **05** INSTALL THE TILES AND SECONDARY CROSSBARS

Add the panels (fig. E) and secondary crossbars (fig. C) by starting in the center of the room and alternating on either

## 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 panels for the open spaces along side walls, avoid fitting them too tightly. Leaving a space between the panel 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"  $\times$  3" inch cut of a panel 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.

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

Most recessed spot lights are designed to be installed on standard suspended ceiling panels or on drywall that is 1/2" thick. Since Embassy panels are 1/4" thick, we suggest using panel 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.





## Only 4.445 cm (1-3/4'') clearance between the structure and the ceiling.



**ANCHOR** 



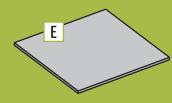
C



D



CROSSBAR



PANEL





## **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.

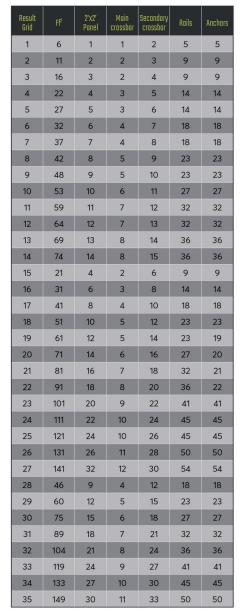
## **02** QUANTITY

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 the Embassy ceilings do not meet the fire resistance compliance standards for commercial buildings. They are Class C according to ASTM E84 standard. Embassy suspended ceilings acoustic and soundproofing properties are similar to avpsum.

## 02



## from from from from fron fron

Smallest

01

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

 
 from 0'
 from 2' 5"
 from 6' 9"
 8' 11"
 11' 11'
 13' 3"
 15' 5"
 17' 7"
 19' 9"
 21'11"
 24' 1"
 26' 3"
 28' 5"

Result Grid	Ff <sup>2</sup>	2'x2' Panel	Main crossbar	Secondary crossbar	Rails	Anchors
36	164	33	13	36	59	59
37	178	36	14	39	63	63
38	193	39	15	42	68	68
39	208	42	16	45	72	72
40	80	16	6	20	27	27
41	99	20	7	24	32	32
42	118	24	9	28	41	41
43	137	28	10	32	45	45
44	157	32	12	36	54	54
45	176	36	13	40	59	59
46	197	40	14	44	63	63
47	216	44	16	48	72	72
48	236	48	17	52	77	77
49	255	52	18	56	81	81
50	274	56	20	60	90	90
51	123	25	9	30	41	41
52	147	30	10	35	45	45
53	171	35	12	40	54	54
54	195	40	14	45	63	63
55	219	45	15	50	68	68
56	245	50	17	55	77	77
57	269	55	19	60	86	86
58	293	60	20	65	90	90
59	317	65	22	70	99	99
60	341	70	23	75	104	104
61	176	36	12	42	54	54
62	204	42	14	48	63	63
63	233	48	16	54	72	72
64	262	54	18	60	81	81
65	293	60	20	66	90	90
66	321	66	22	72	99	99
67	350	72	24	78	108	108
68	379	78	25	84	113	113
69	407	84	27	90	122	122
70	238	49	16	56	72	72

Result Grid		2'x2' Panel	Main crossbar	Secondary crossbar	Rails	Anchor
71	271	56	18	63	81	81
72	304	63	20	70	90	90
73	340	70	22	77	99	99
74	374	77	25	84	113	113
75	407	84	27	91	122	122
76	441	91	29	98	131	131
77	474	98	31	105	140	140
78	309	64	20	72	90	90
79	347	72	23	80	104	104
80	388	80	25	88	113	113
81	426	88	28	99	126	126
82	464	96	30	104	135	135
83	503	104	33	112	149	149
84	541	112	35	120	158	158
85	390	81	25	90	113	113
86	436	90	28	99	126	126
87	479	99	31	108	140	140
88	522	108	33	117	149	149
89	565	117	36	126	162	162
90	607	126	39	135	176	176
91	488	100	31	110	140	140
92	536	110	34	120	153	153
93	583	120	37	130	167	167
94	631	130	40	140	180	180
95	679	140	43	150	194	194
96	588	121	37	132	167	167
97	641	132	40	143	180	180
98	693	143	43	154	194	194
99	746	154	46	165	207	207
100	698	144	43	156	194	194
101	755	156	47	168	212	212
102	812	168	50	180	225	225
103	817	169	50	182	225	225
104	879	182	54	195	243	243
105	946	196	58	210	261	261

## SUSPENDED CEILING





## Easy installation



PRODUCT	DESCRIPTION	Qty/pkg
P22WHB	White panel, 2' X 2'	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

CA: # 2588300 - # 2754550 - # 2855427 - # 2837410 - # 2855430 - # 2833714 - # 3022306

us: # 9340976- # 9670674 - # 9091053 - # 9243405 - # 10557265











# SUSPENDED CEILING SYSTEM

IN MOF 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





