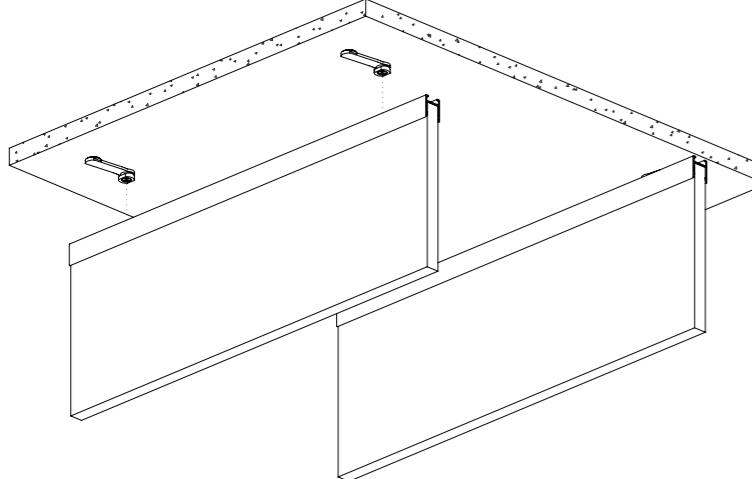




THE FIRST CONSIDERATION TO MAKE WHEN SPECIFYING A FRONTIER SYSTEM IS THE INSTALLATION METHOD.

**1. DIRECT FIXED TO CEILING**

SEE PAGE 2

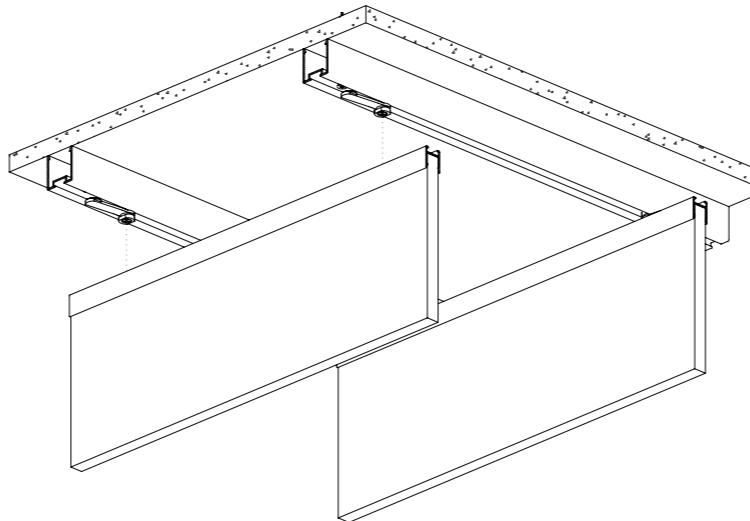


PACK INCLUDES  
Autex Mounting Clips  
Autex Frontier Extrusions  
Autex Frontier Fins/Rafts

NOT SUPPLIED  
Fasteners (to substrate)

**2. DIRECT FIXED TO RAILS**

SEE PAGE 3



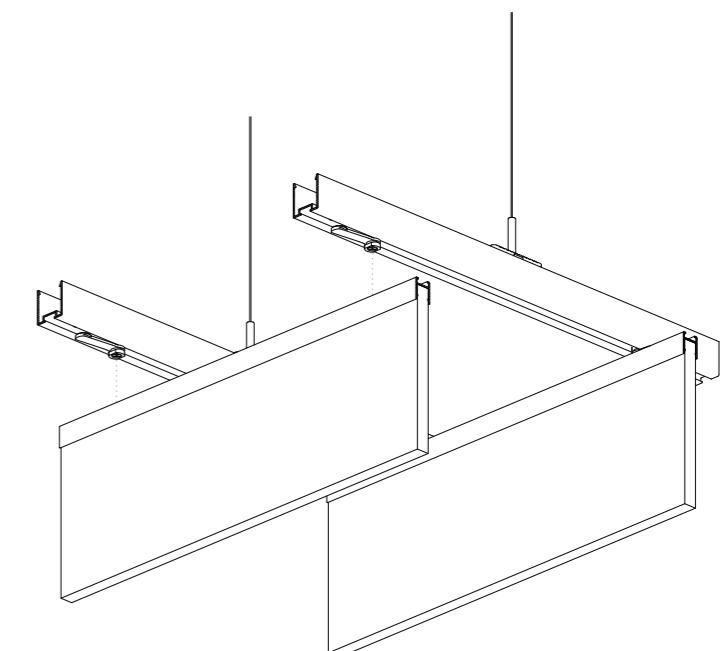
PACK INCLUDES  
Autex Mounting Clips  
Autex Frontier Extrusions  
Autex Frontier Fins/Rafts

ADDITIONAL COMPONENTS REQUIRED  
Autex Frontier Cross Rails x2

NOT SUPPLIED  
Fasteners (to substrate)

**3. SUSPENDED RAILS**

SEE PAGE 4



PACK INCLUDES  
Autex Mounting Clips  
Autex Frontier Extrusions  
Autex Frontier Fins/Rafts

ADDITIONAL COMPONENTS REQUIRED  
Autex Frontier Cross Rails x2  
Autex W-Clips  
Autex Wire Suspension Kits

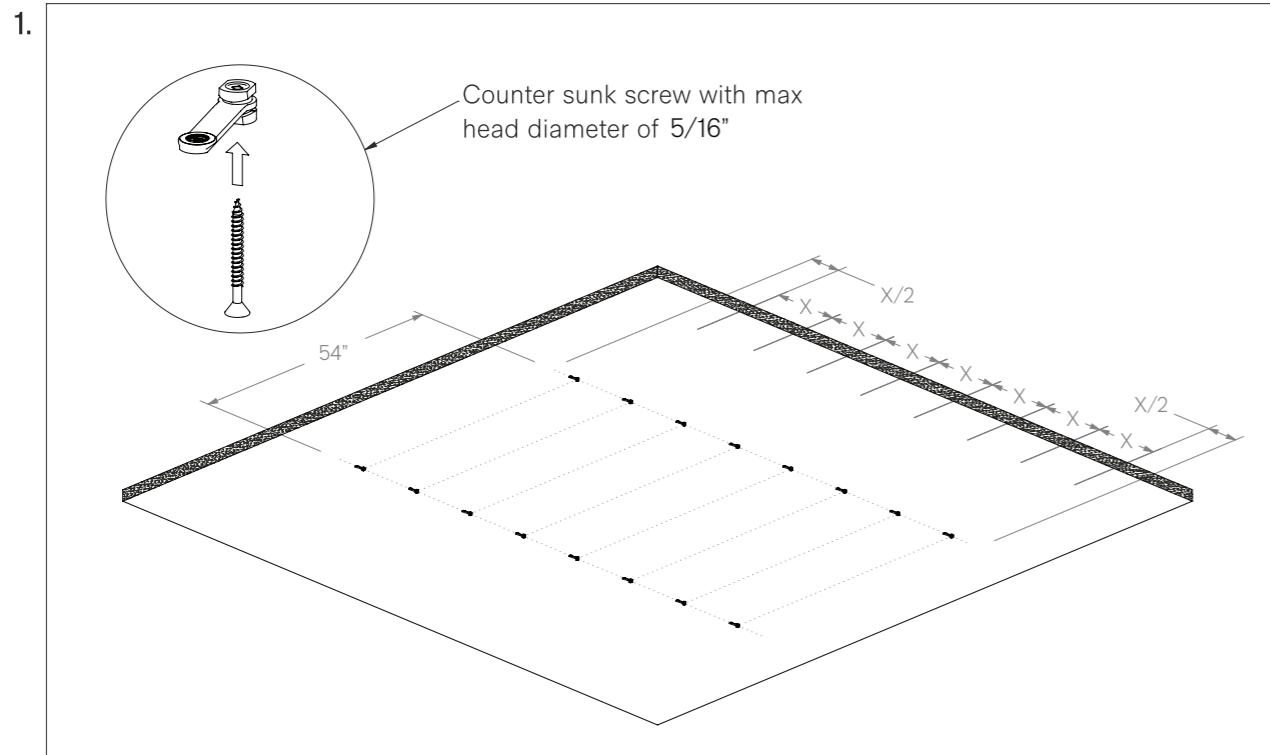
NOT SUPPLIED  
Fasteners (to substrate)  
Threaded Rod

For suspended installations it is strongly recommended to consult a building engineer for seismic considerations. See page 8 for suggested details.  
For all installations in sprinklered buildings, consult a fire engineer to ensure the intended position of the Frontier Fins/Rafts meet sprinkler and alarm standards.  
Further detail on the fire standards can be found in the supplemental document "Fire Considerations for Autex Frontier Acoustic Fins".

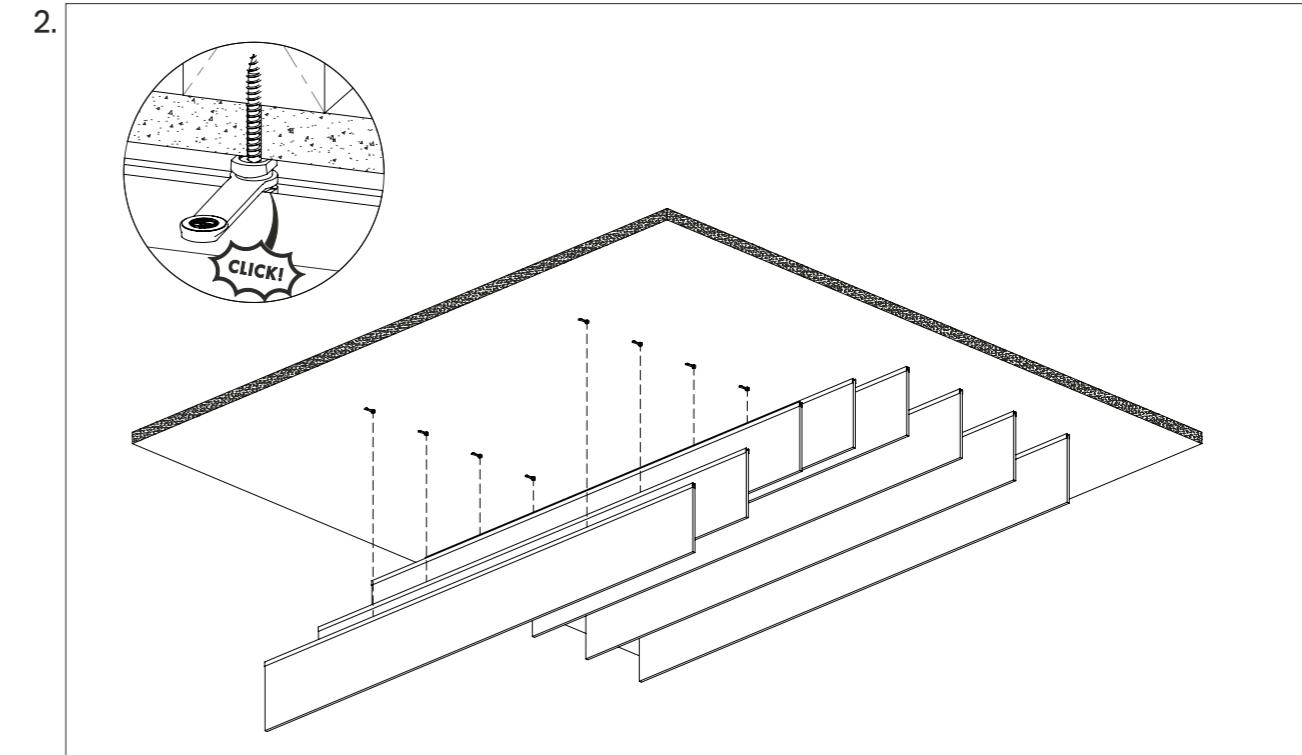


## Frontier™ Install Instructions

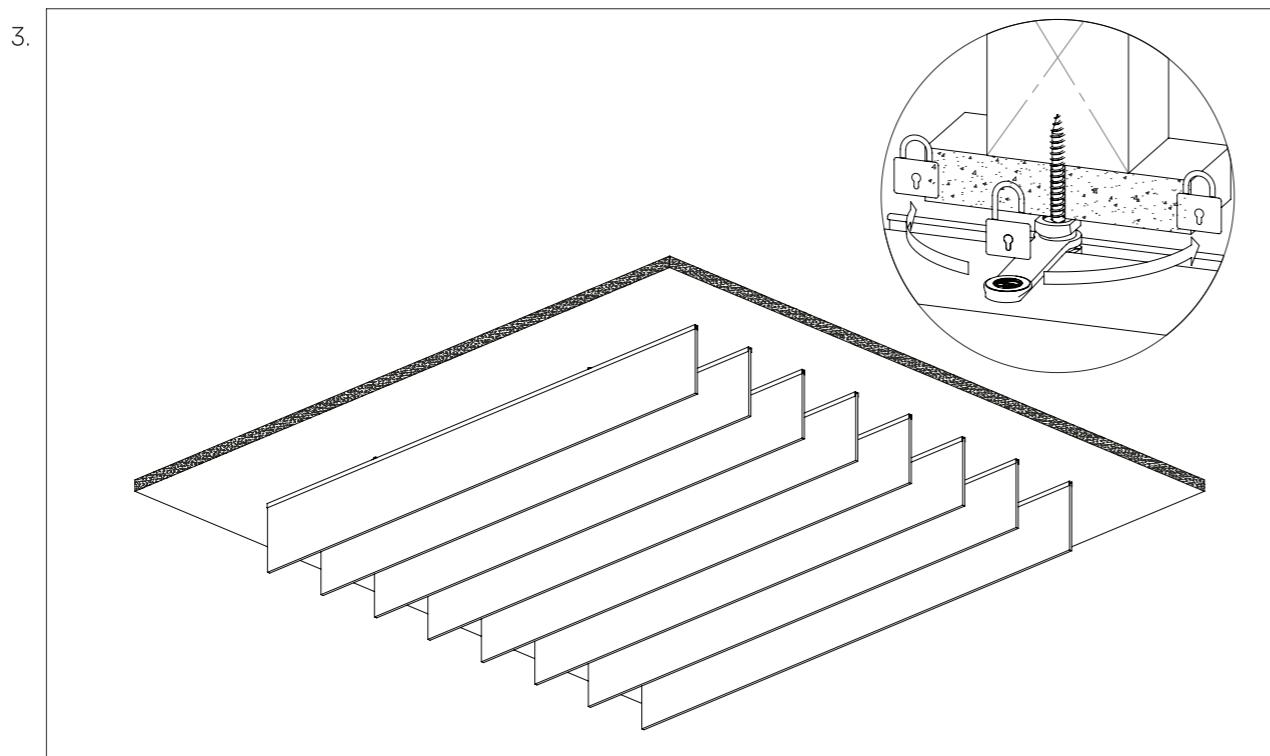
### Direct Fix to Ceiling



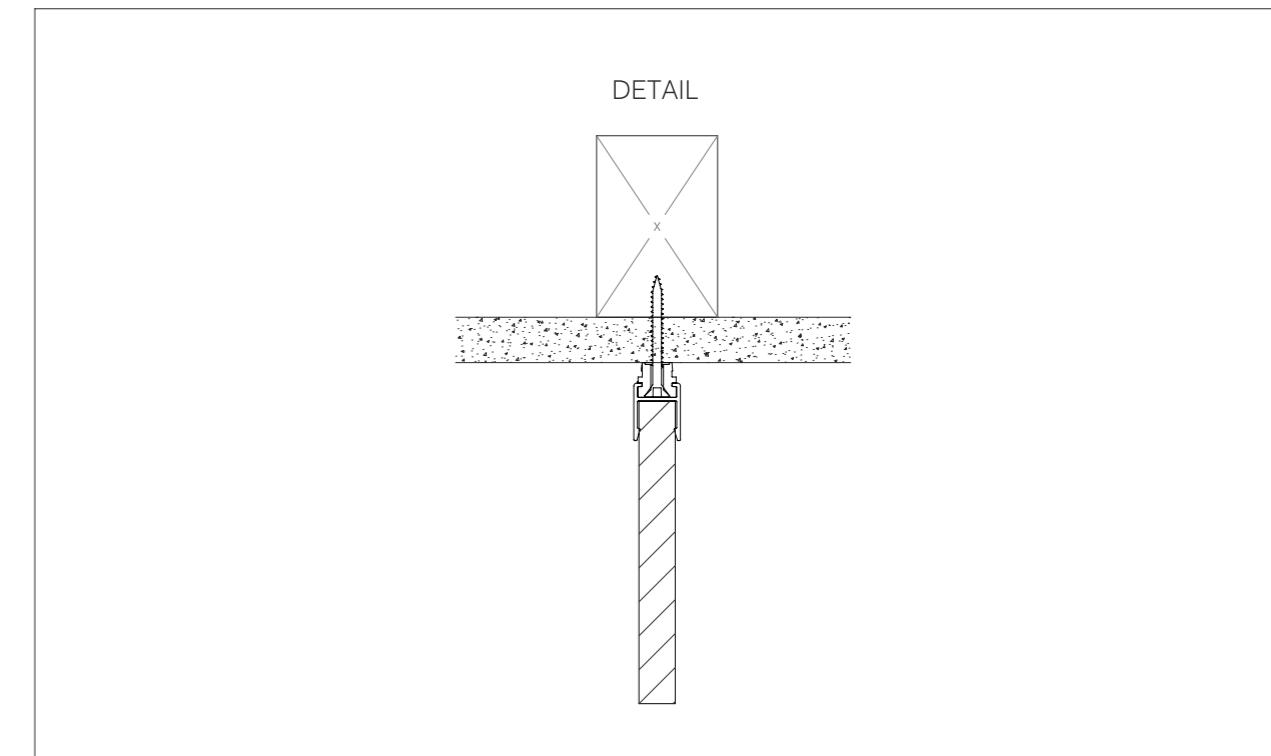
Mark out your ceiling at the recommended spacing for your chosen product (refer to table on page 25 for details). Screw the Autex Mounting Clips into the ceiling using screws suitable for the substrate (not supplied).



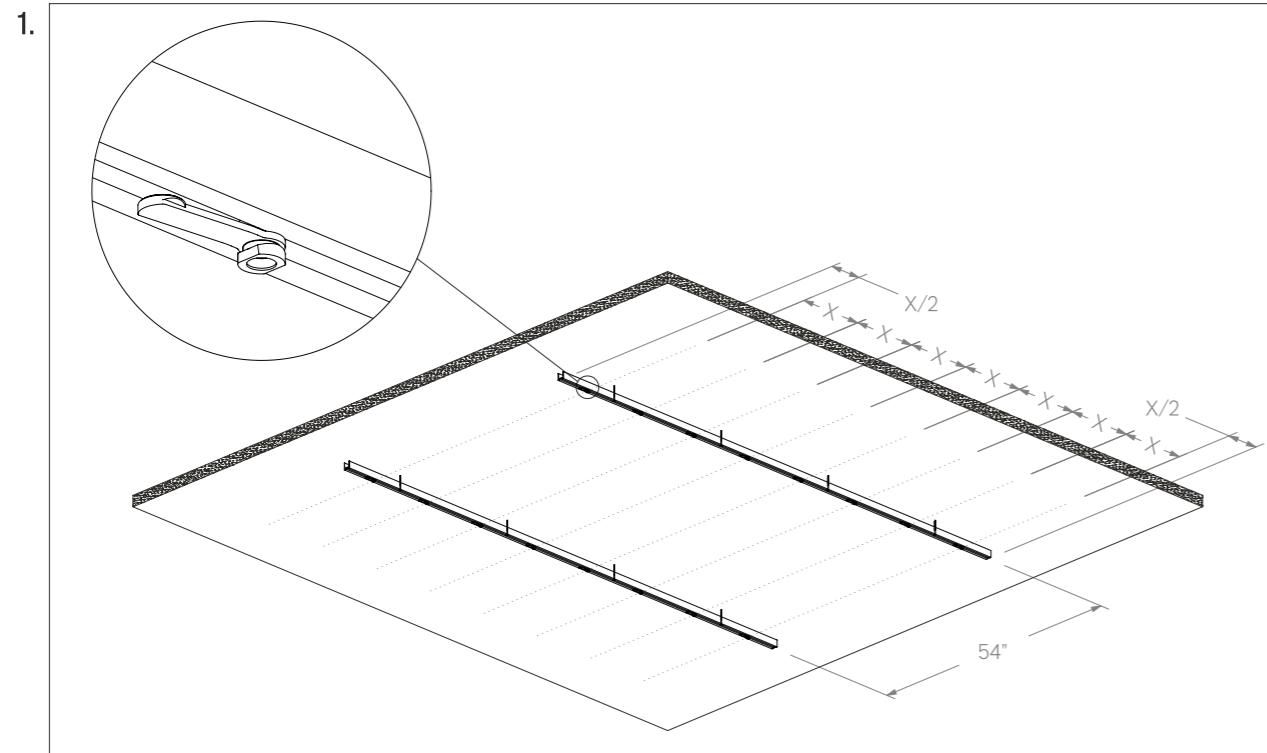
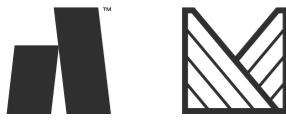
Lift the assembled Fins/Rafts into place and click them onto the Autex Mounting Clips. Turn the clips 45° to temporarily hold the Fin/Raft in place while allowing adjustment along the length.



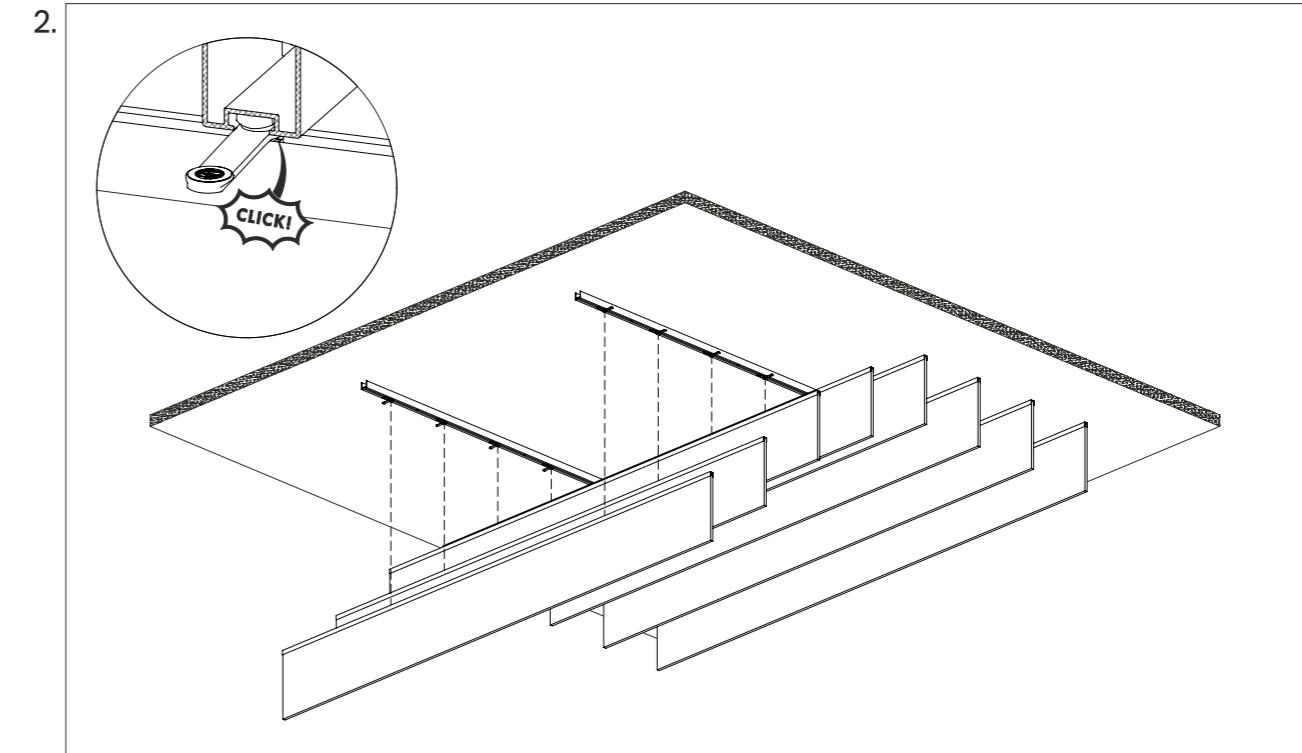
When you are satisfied with the alignment of the Fins/Rafts turn the clips 90° so they clip into the channel and lock in place.



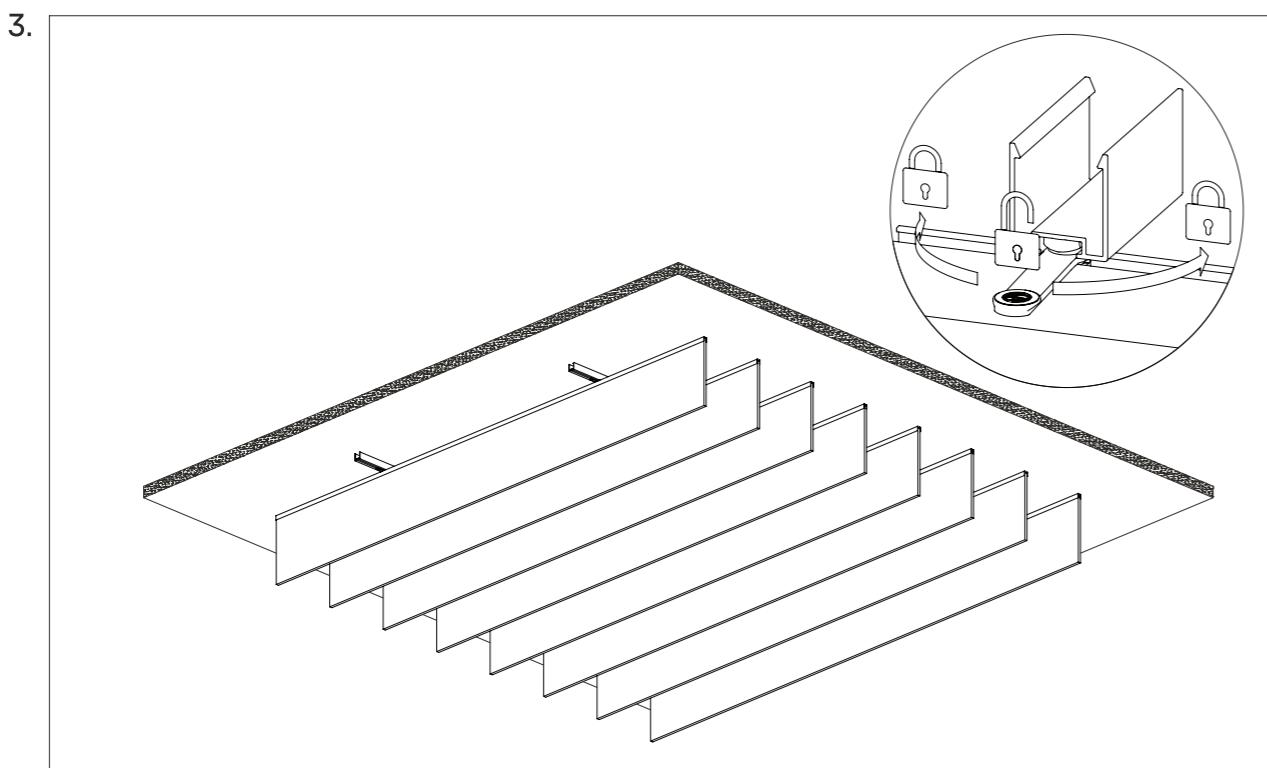
Ensure suitable fastener for the clip and substrate is used (not supplied).



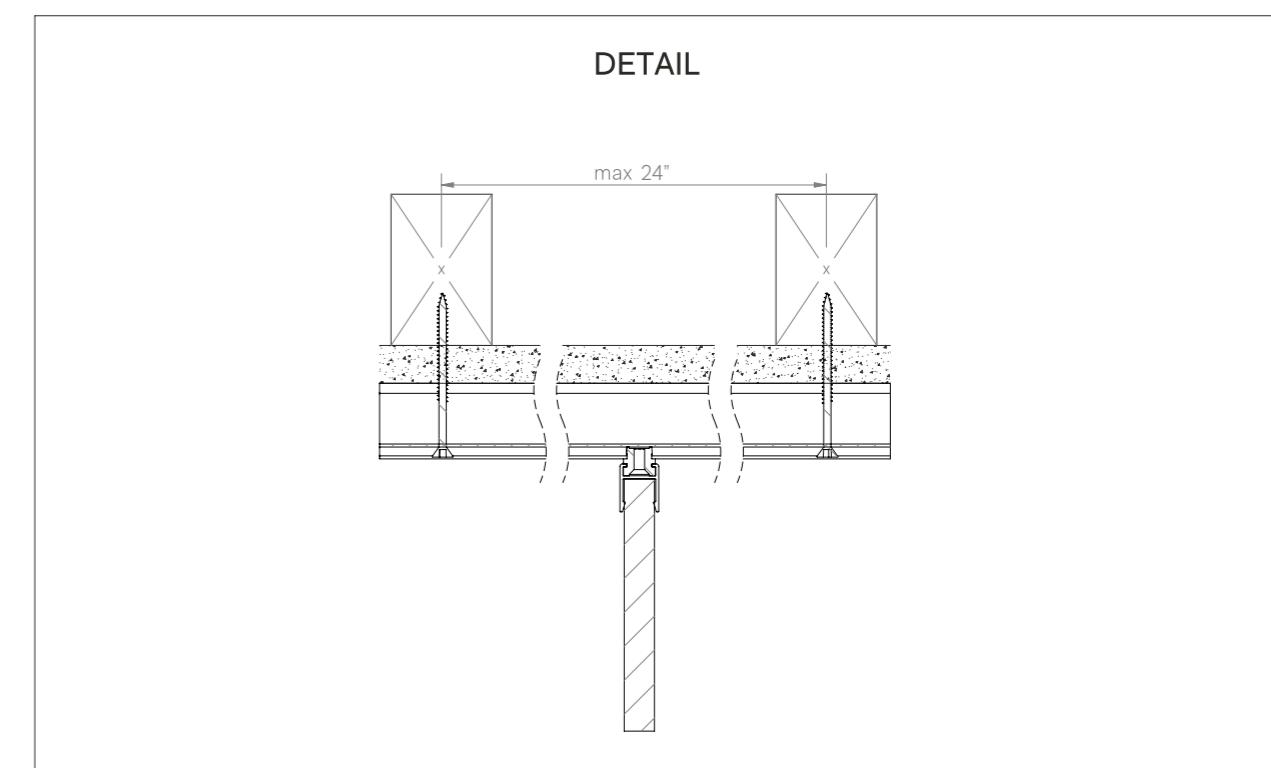
Mark out the ceiling and screw in 2x cross rails at 54" centers using screws suitable for the substrate (not supplied) at max centers of 24". Insert the Autex Mounting Clips at the desired fin spacing. Fin spacing can be marked on the cross rails prior to installation. (Refer to table on page 25 for details).



Lift the assembled Fins/Rafts into place and click them onto the Autex Mounting Clips. Turn the clips 45° to temporarily hold the Fin/Raft in place while allowing adjustment along the length.



When you are satisfied with the alignment of the Fins/Rafts turn the clips 90° so they clip into the channel and lock in place.

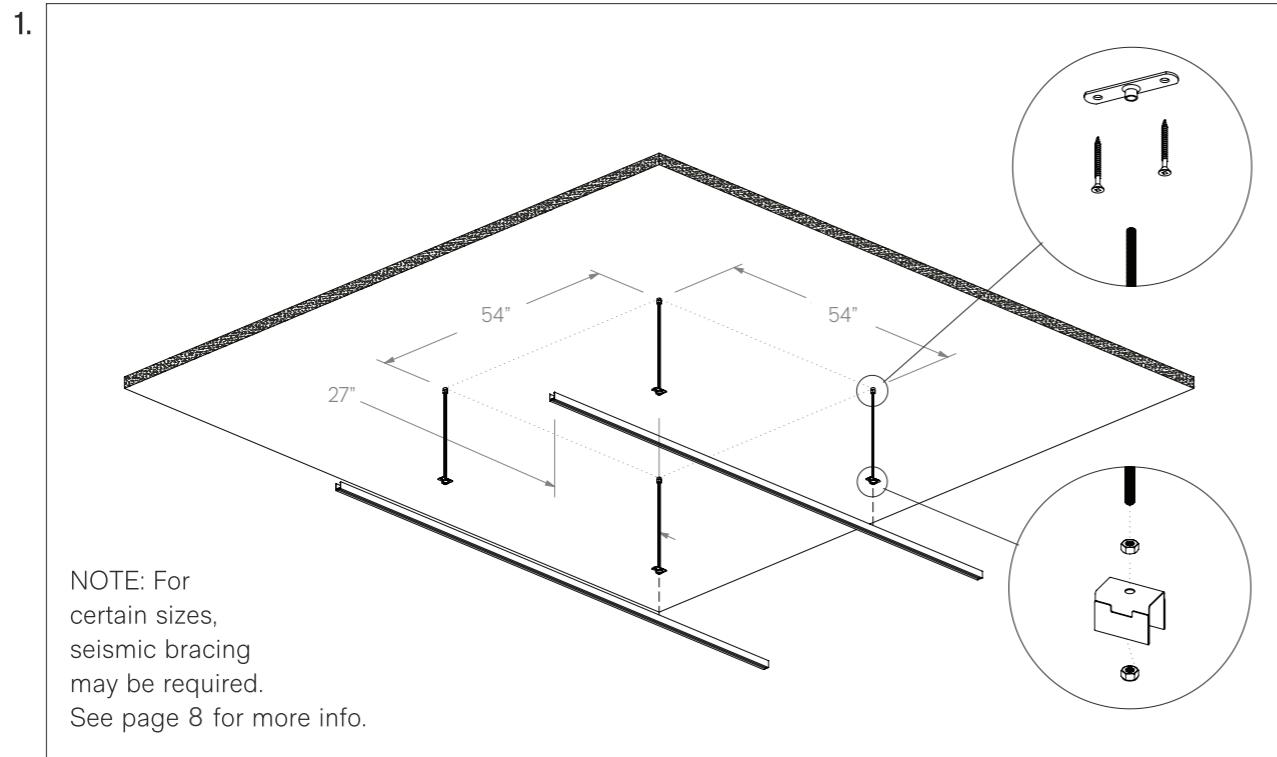


Ensure suitable fastener for the clip, rail and substrate is used. For additional security, the Autex Mounting Clips can be screwed into the cross rail.

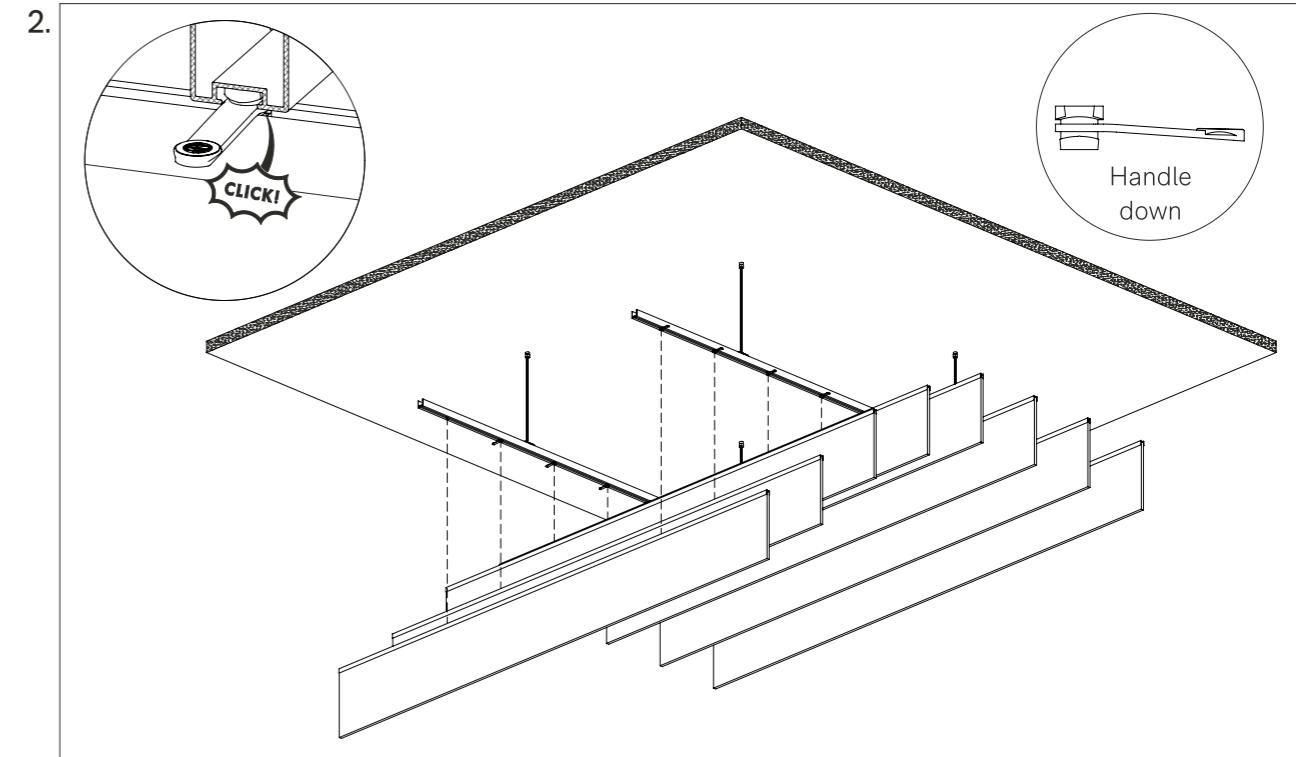


# Frontier™ Install Instructions

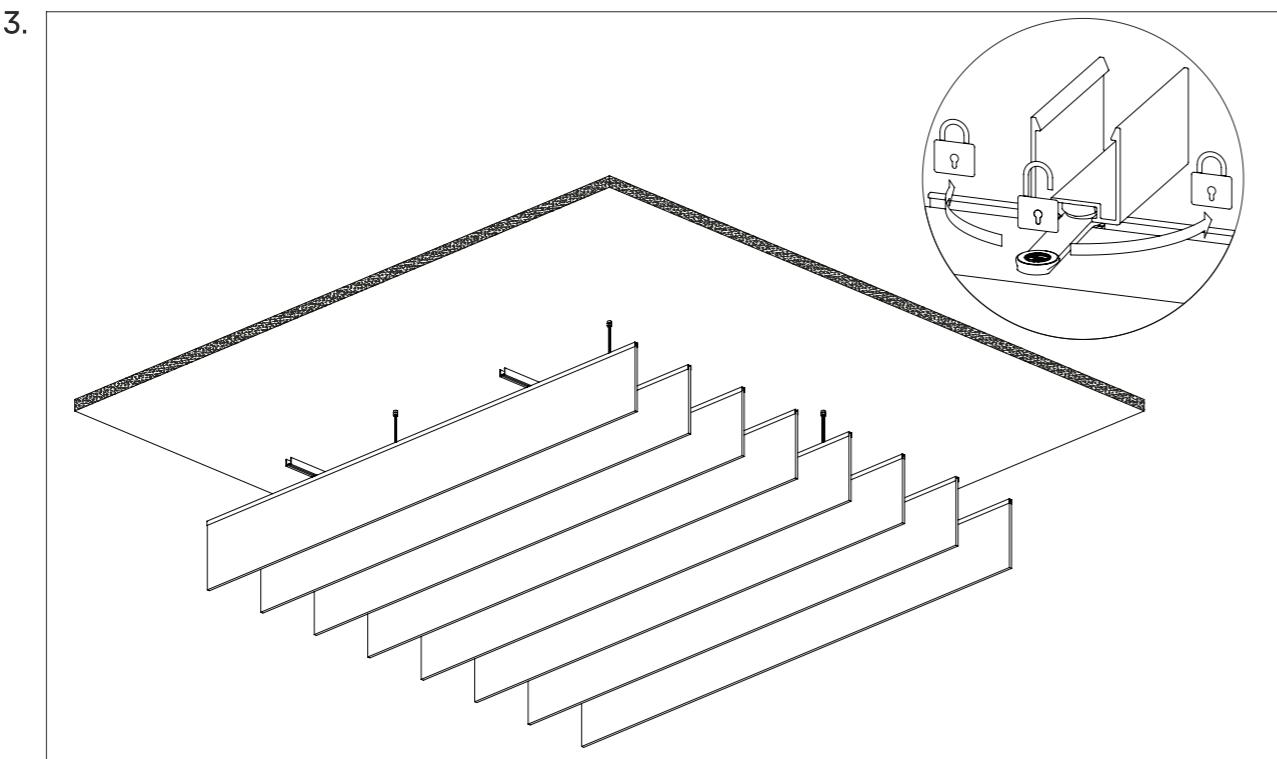
## Suspended from Ceiling



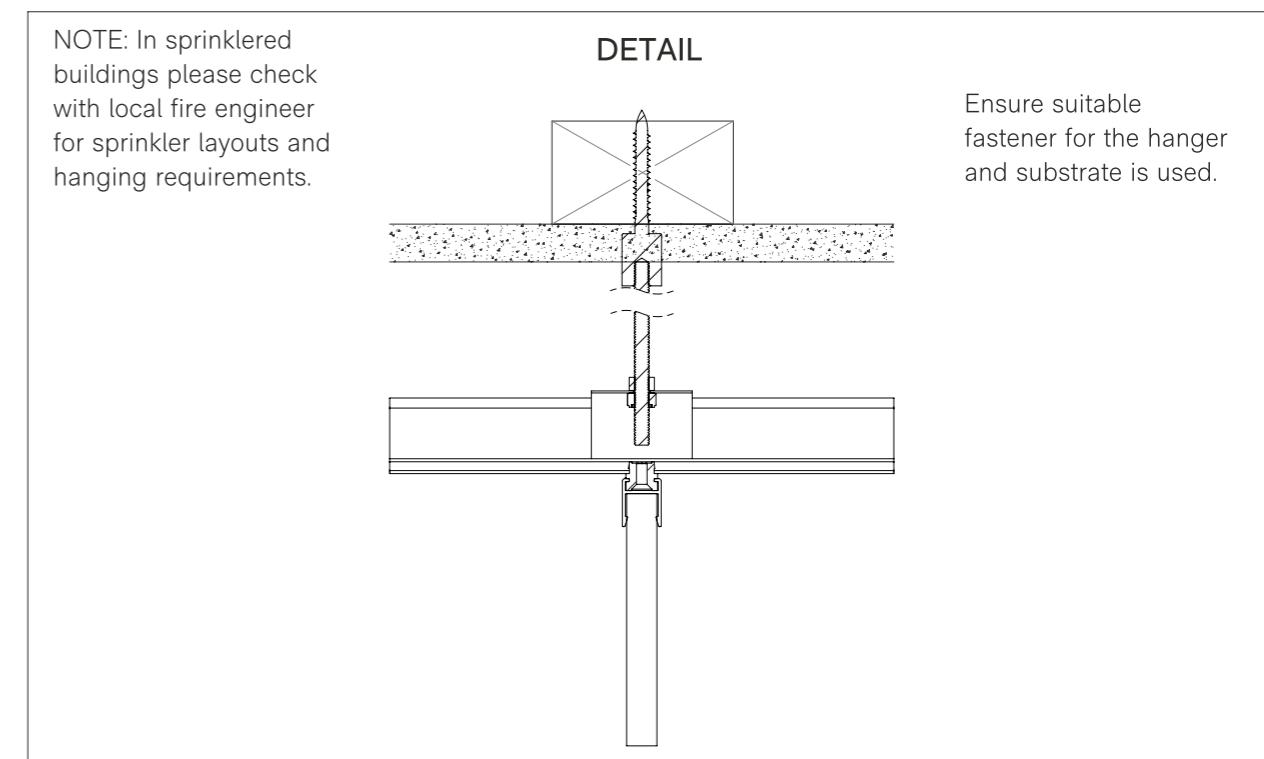
Mark out the ceiling and screw in 4x backing plates suitable for 6 mm threaded rod in a 54" x 54" square using screws suitable for the substrate (not supplied). Fin spacing can be marked on the cross rails prior to being clipped onto the Removable W-Clips. (Refer to table on page 25 for details).



Insert the Autex Mounting Clips at the desired fin spacing on the cross rails with the handle tilted towards the floor. Lift the assembled Fins/Rafts into place and click them onto the Autex Mounting Clips. Turn the clips 45° to temporarily hold the Fin/Raft in place while allowing adjustment along the length.



When you are satisfied with the alignment of the Fins/Rafts turn the clips 90° so they clip into the channel and lock in place.



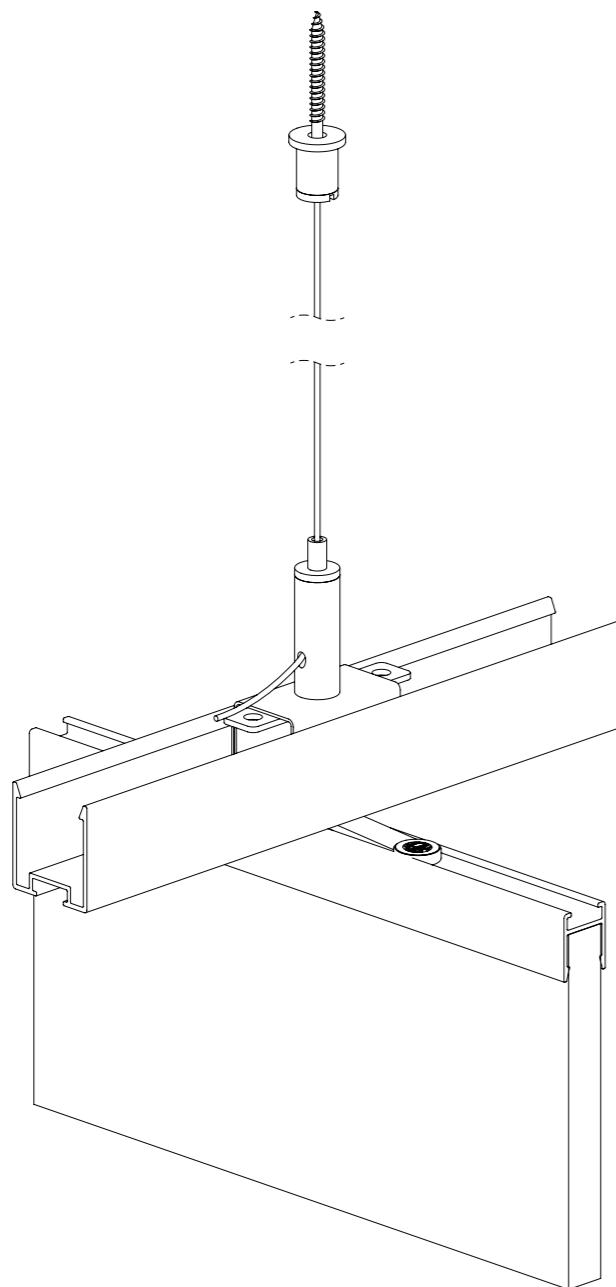
PLEASE NOTE, the threaded rod and backing plate suspension method is the default option for large installations. As these parts are supplied by a third party, please see your account manager for preferred supplier in your territory. For smaller installations, adjustable cable hangers are available from Autex.



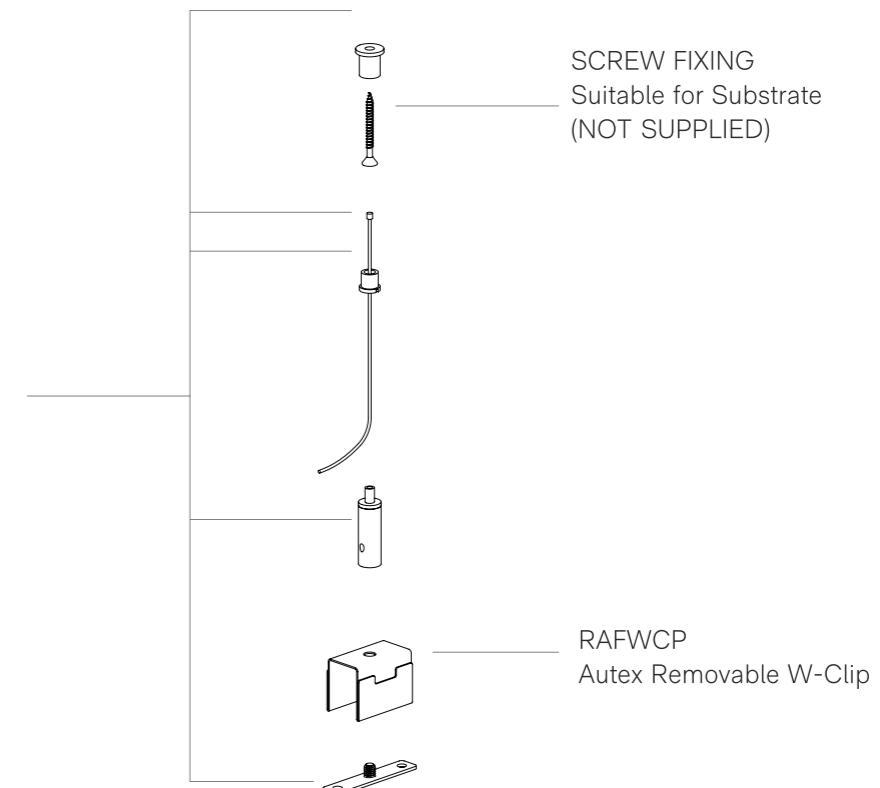
# Frontier™ Install Instructions

## Cable Suspension to Rail

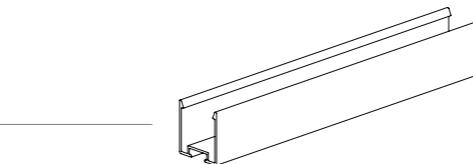
Suggested Ceiling Fixing Detail		
Substrate	Fixing	Minimum Depth
Concrete	Hilti-HUS3-HR6	1 1/2"
Steel	Stainless Steel 8G Tek Screw	2 3/16"
Timber	Stainless Steel 8G Wood Screw	1 3/16"



RAHVAS  
Autex Adjustable  
Suspension Set - Channel



RAFNEX24  
Autex Frontier 1" Extrusion



RAFTCC  
Autex Mounting Clip

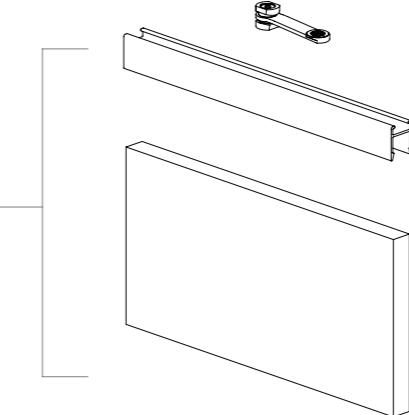
RAFNEX  
Autex Frontier 3/8" Extrusion + Fin

- or -

RAFNEX24  
Autex Frontier 1" Extrusion + Fin

- or -

RAFNEXRT  
Autex Frontier Raft Extrusion + Raft



NOTE: This suspension method is suitable for small

installations only.

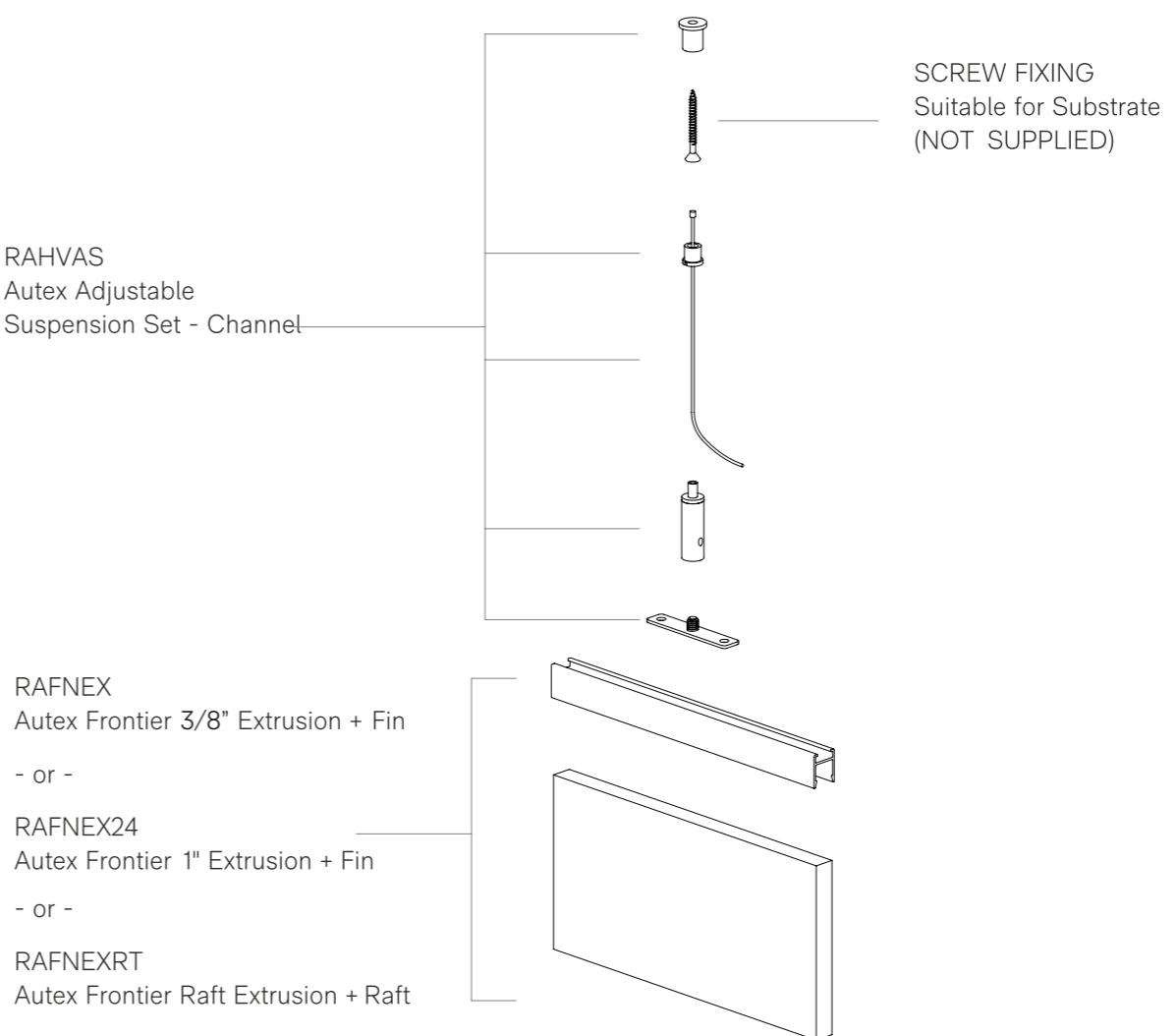
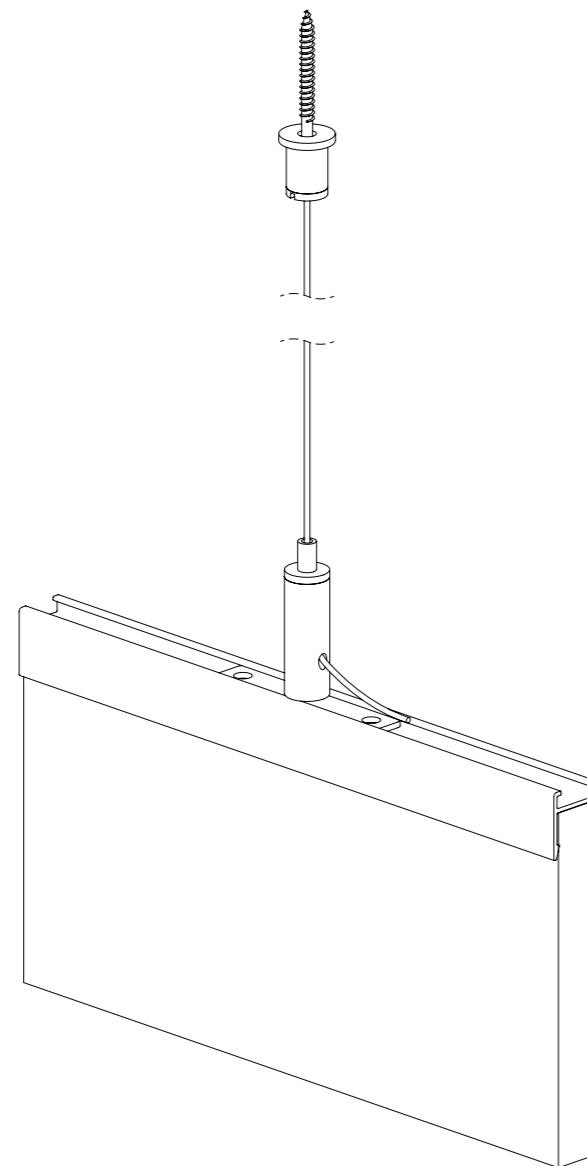
For larger installations refer to pages 7-8



## Frontier™ Install Instructions

### Cable Suspension to Fin/Raft

Suggested Ceiling Fixing Detail		
Substrate	Fixing	Minimum Depth
Concrete	Hilti-HUS3-HR6	1 1/2"
Steel	Stainless Steel 8G Tek Screw	2 3/16"
Timber	Stainless Steel 8G Wood Screw	1 3/16"



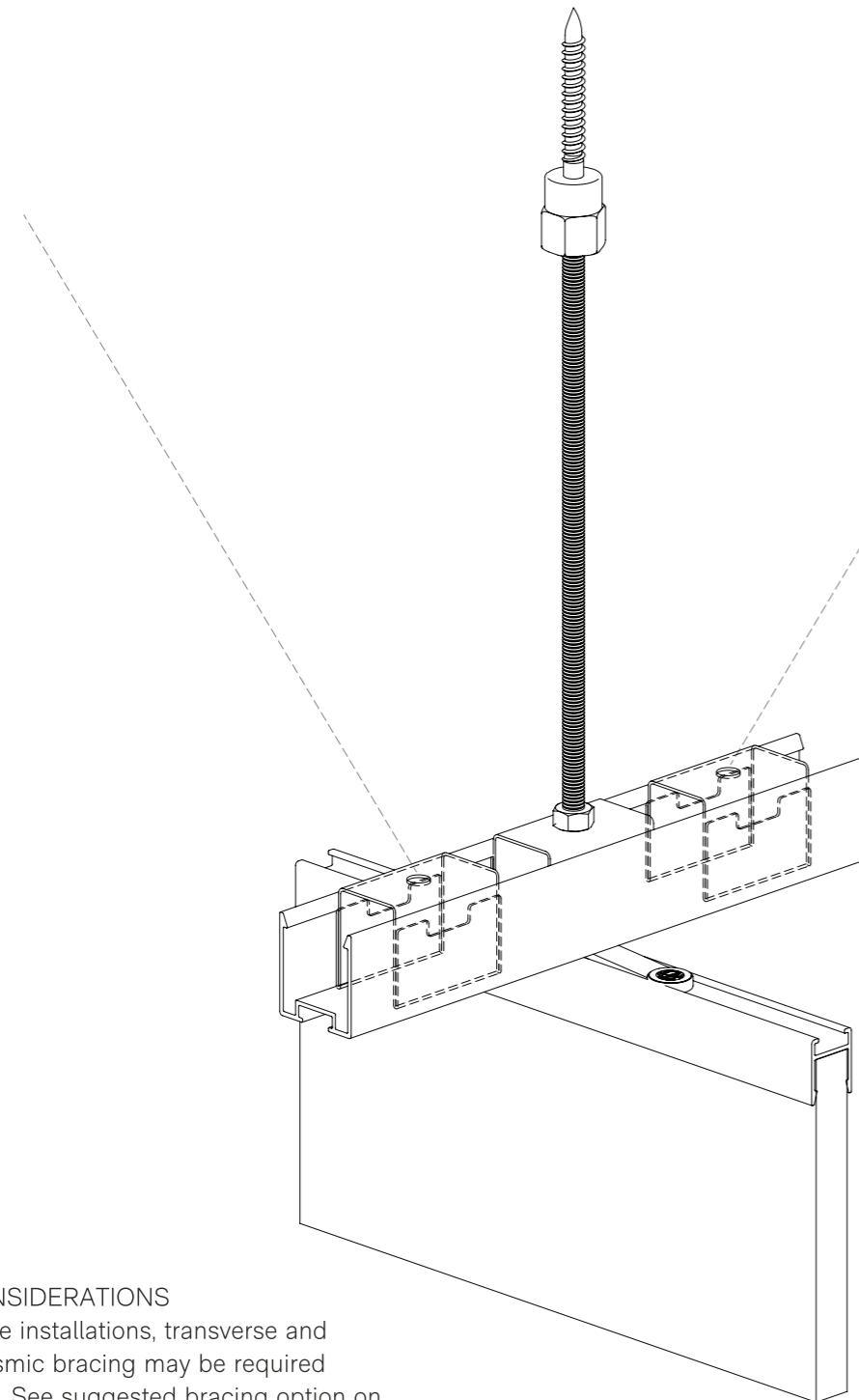
NOTE: This suspension method is suitable for individual fins only.  
Requires 1x RAHVAS set per fin.  
For larger installations refer to pages 7-8



# Frontier™ Install Instructions

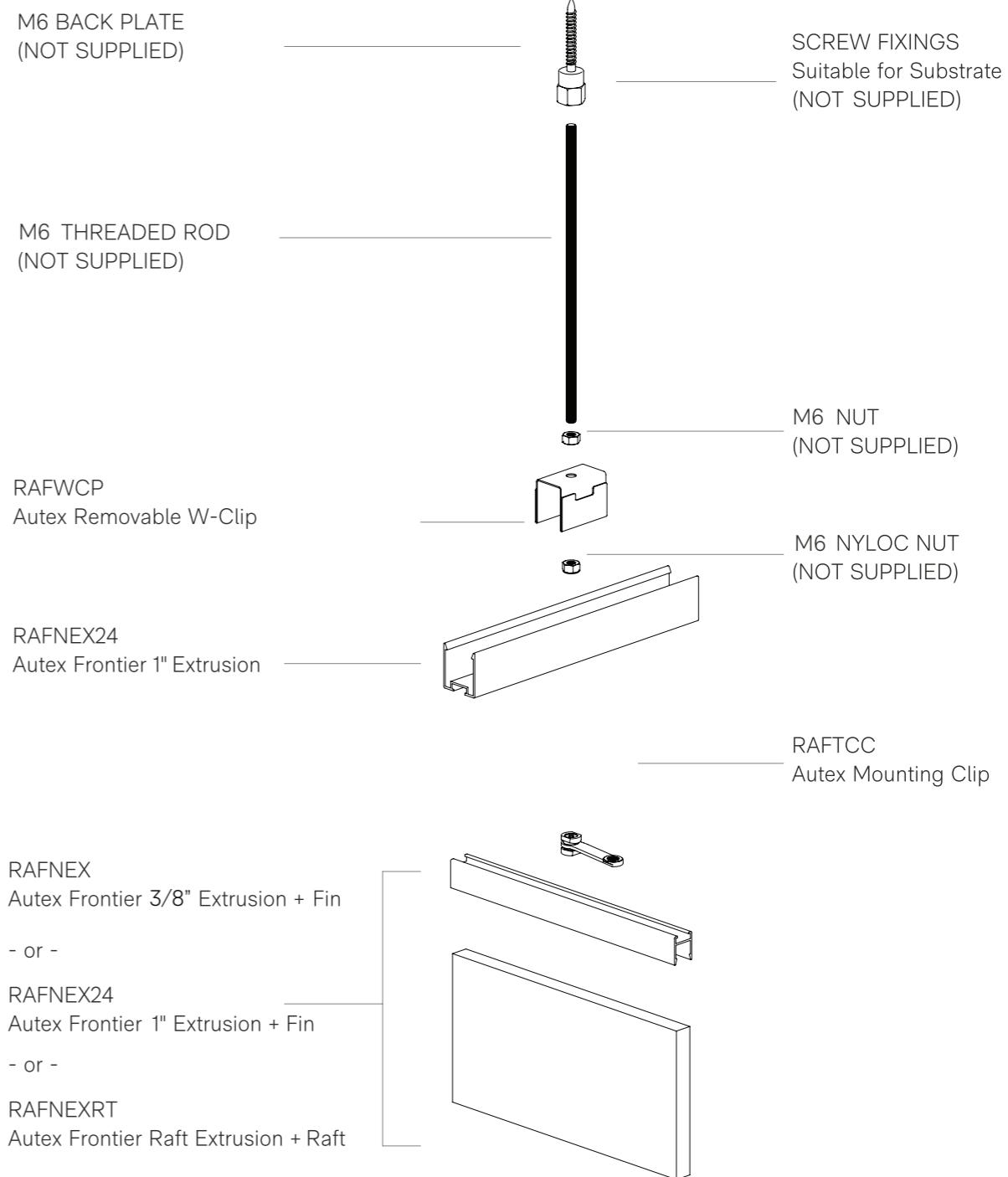
## Threaded Rod Suspension

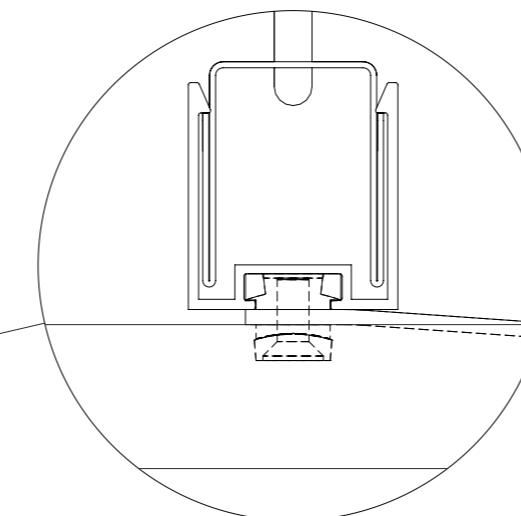
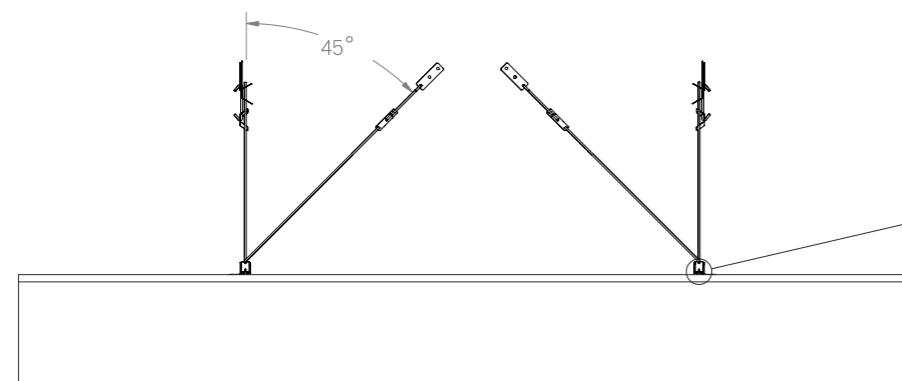
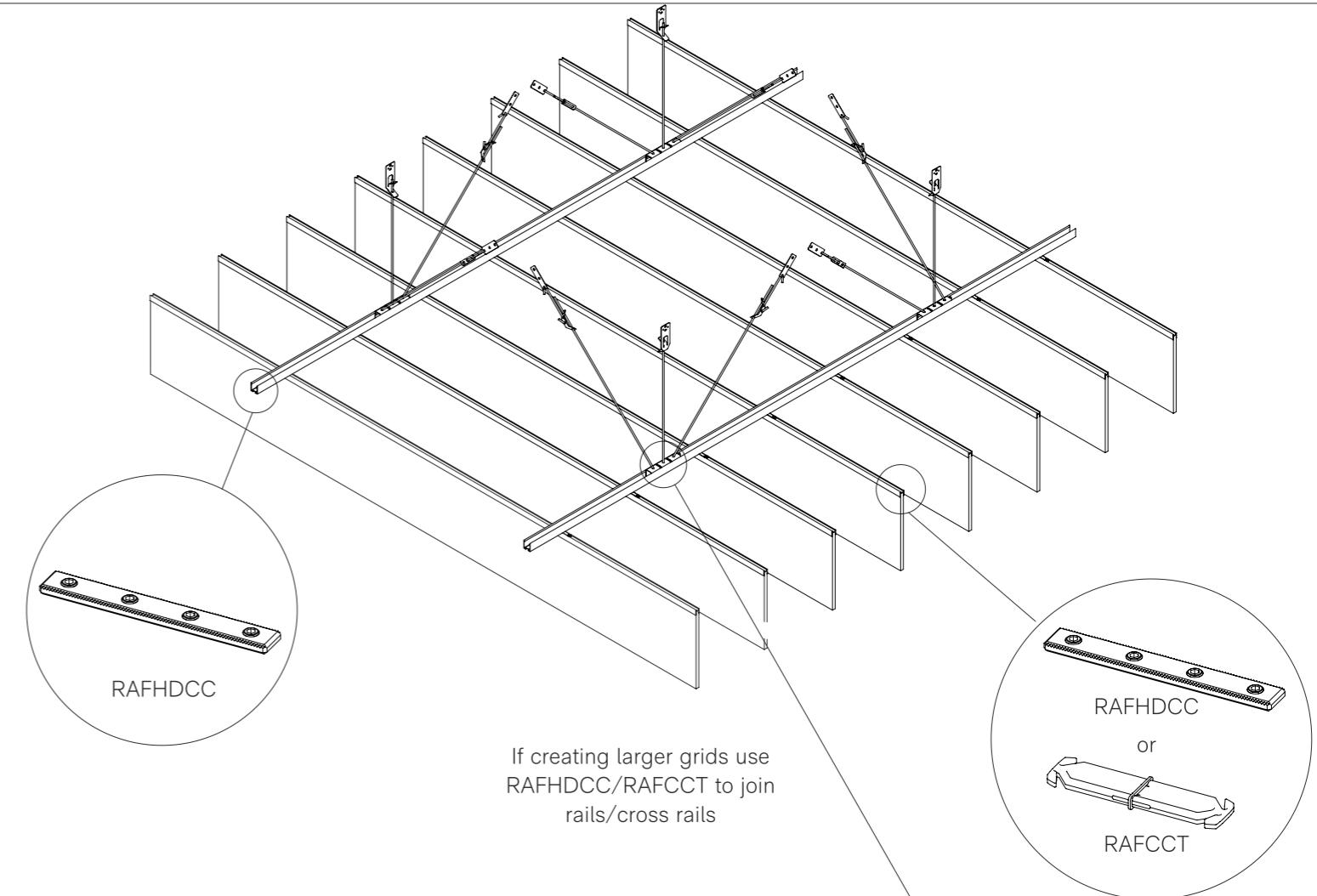
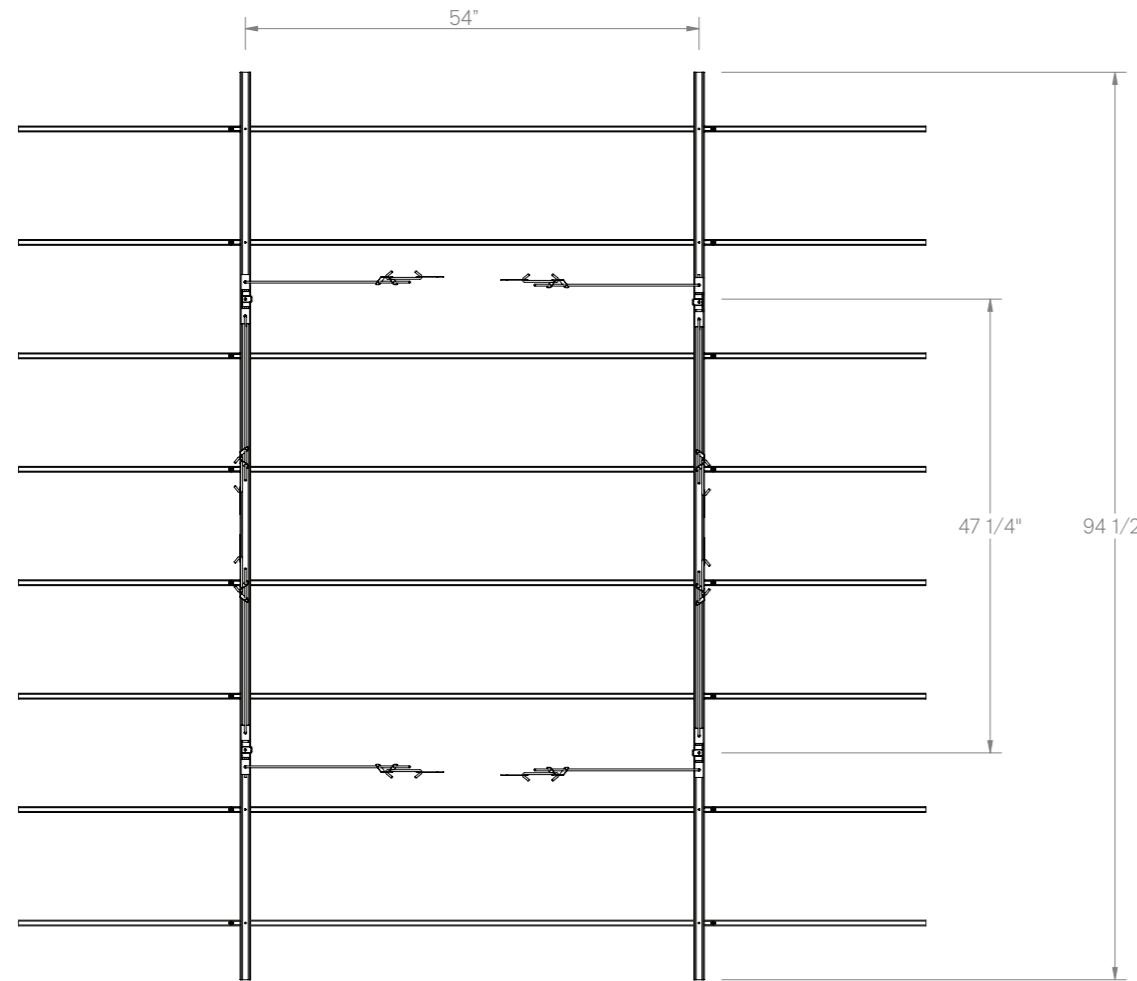
Suggested Ceiling Fixing Detail		
Substrate	Fixing	Minimum Depth
Concrete	Hilti-HUS3-HR6	1 1/2"
Steel	Stainless Steel 8G Tek Screw	2 3/16"
Timber	Stainless Steel 8G Wood Screw	1 3/16"



### SEISMIC CONSIDERATIONS

For certain size installations, transverse and longitudinal seismic bracing may be required (dashed lines). See suggested bracing option on page 8.

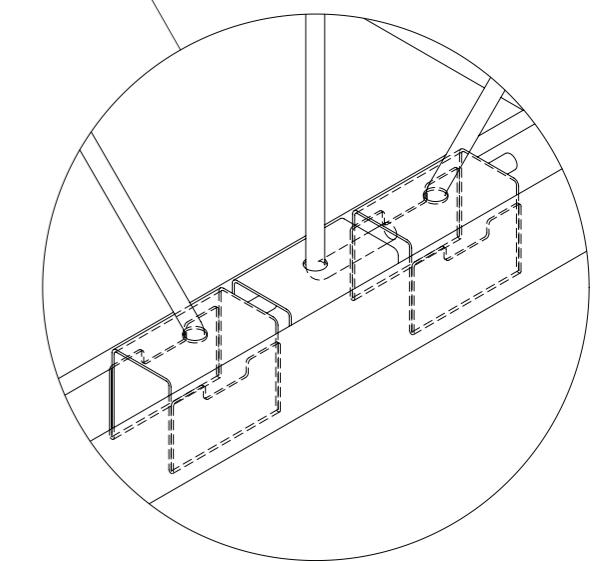




RAFWCP  
Autex Removable W-Clip

RAFNEX24 (used as crossrail)  
Autex Frontier 1" Extrusion

RAFTCC  
Autex Mounting Clip



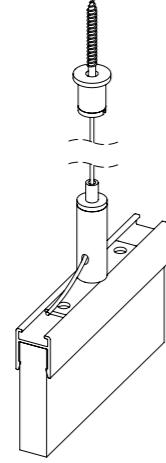
Additional Autex W Clips act as interface between bracing and channel



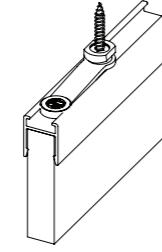
# Frontier™ Install Instructions

## Fixing Options

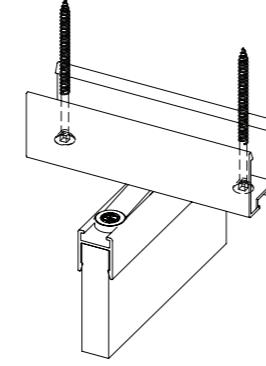
\*This method is suitable for individual fins only



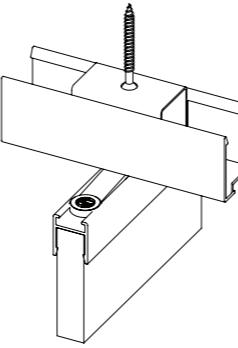
DIRECT TO CABLE SUSPENSION



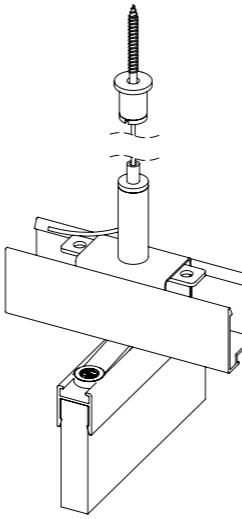
CAM CLIP SCREW FIX TO CEILING



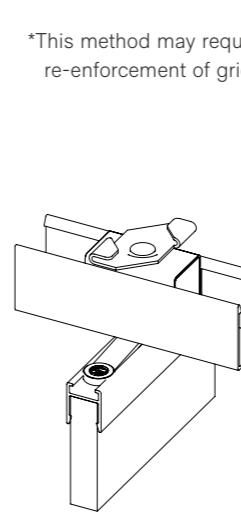
CROSS RAIL SCREW FIX TO CEILING



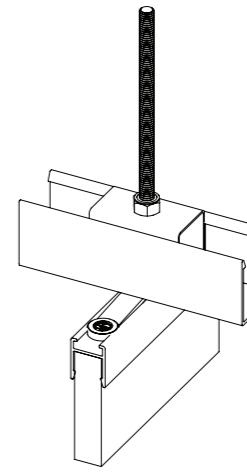
CROSS RAIL W-CLIP SCREW FIX TO CEILING



CROSS RAIL W-CLIP TO CABLE SUSPENSION

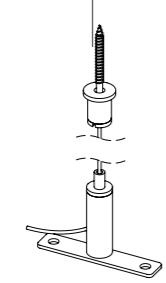


CROSS RAIL W-CLIP TO 1" CEILING GRID



CROSS RAIL W-CLIP TO M6 THREADED ROD

### 5. HANGING METHOD

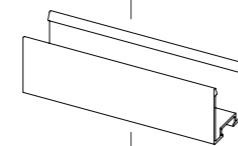


### 4. W-CLIP



Nut not supplied by Autex

### 3. CROSS RAIL



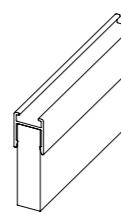
RAFNEX24  
Frontier 1" Extrusion (used as cross rail)

### 2. INTERFACE

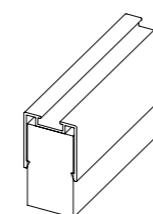


RAFTCC  
Autex Mounting Clip

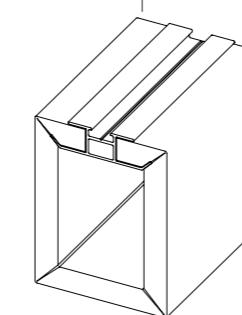
### 1. FIN TYPE



RAFNEX  
Frontier 3/8" Extrusion



RAFNEX24  
Frontier 1" Extrusion



RAFNEXRT  
Frontier Raft Extrusion

### GUIDE

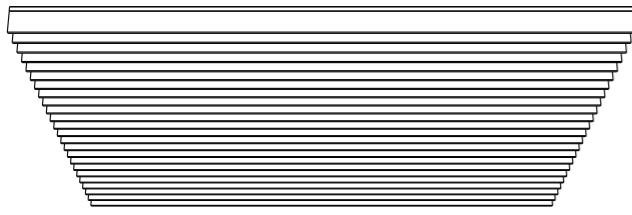
Starting with your predetermined Fin/Raft option (bottom), choose your installation path above which indicates components required.

— Autex Component  
- - - - - 3rd Party Component

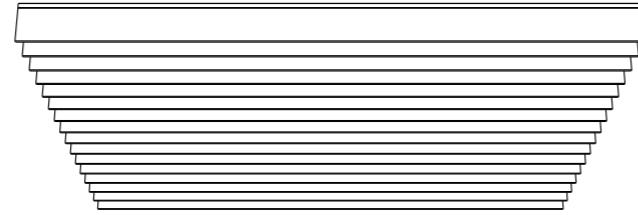


## Frontier™ Install Instructions

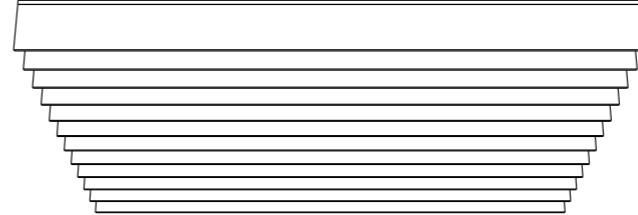
### Frontier Fin Styles



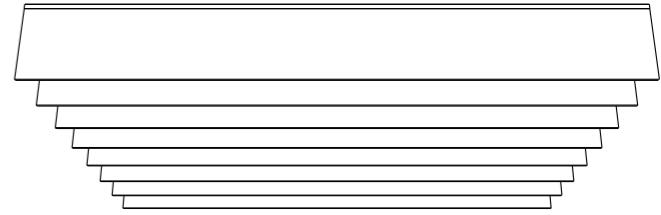
TUNDRA 4"



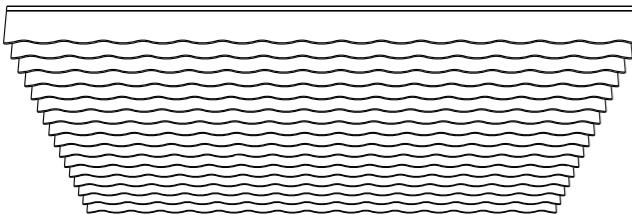
TUNDRA 6"



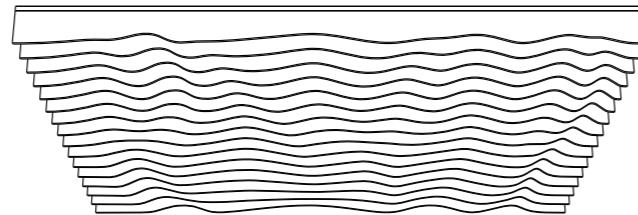
TUNDRA 8"



TUNDRA 12"



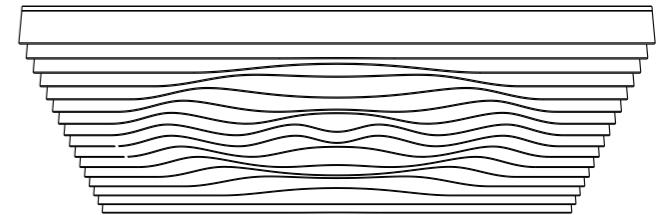
WAVE



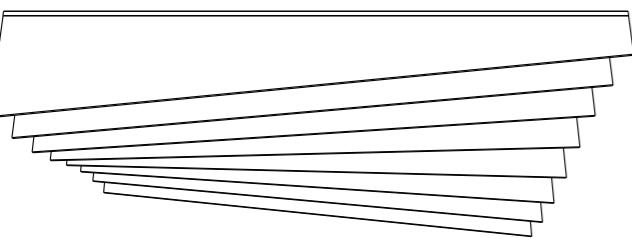
DRAPE



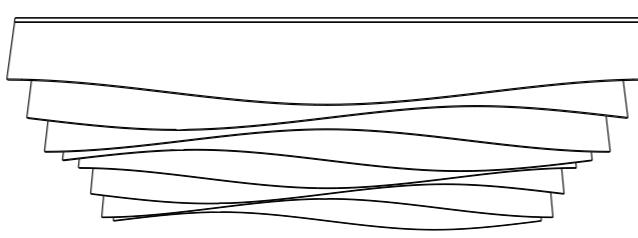
GLIDE



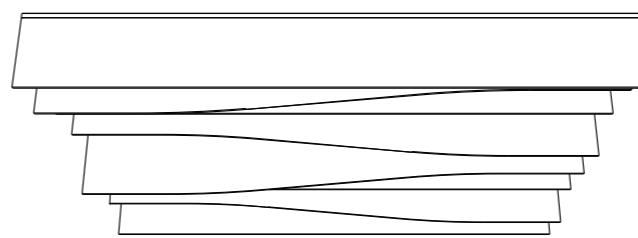
RIPPLE



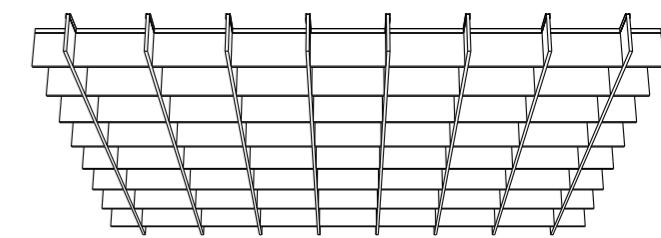
SIERRA



TALUS



DUNE



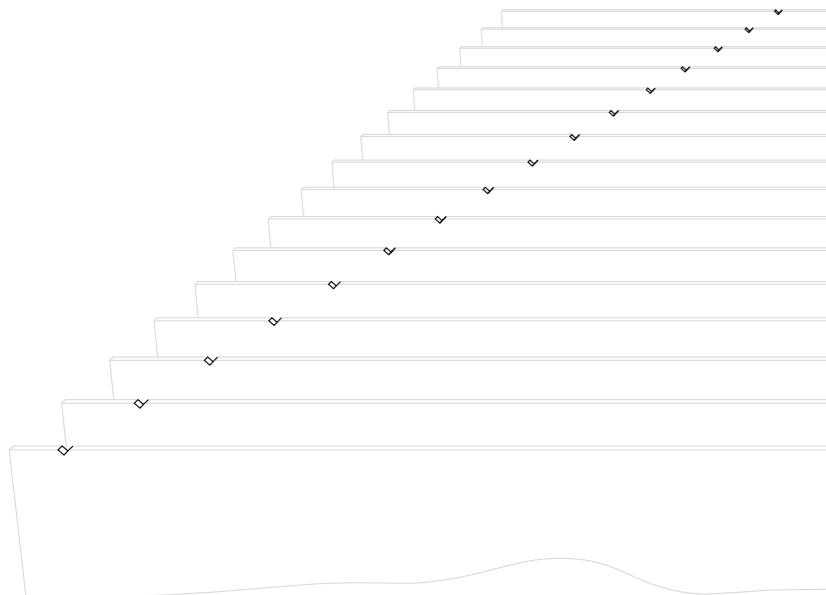
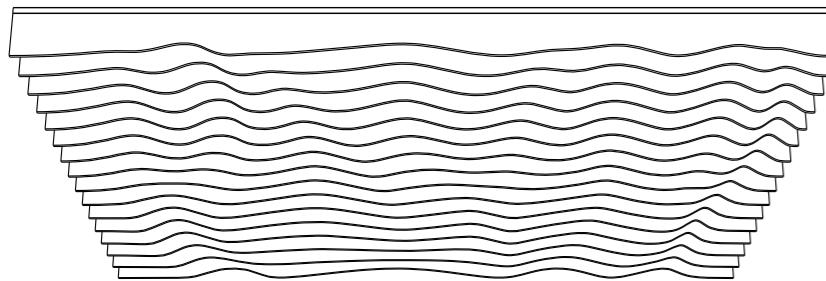
AXIS



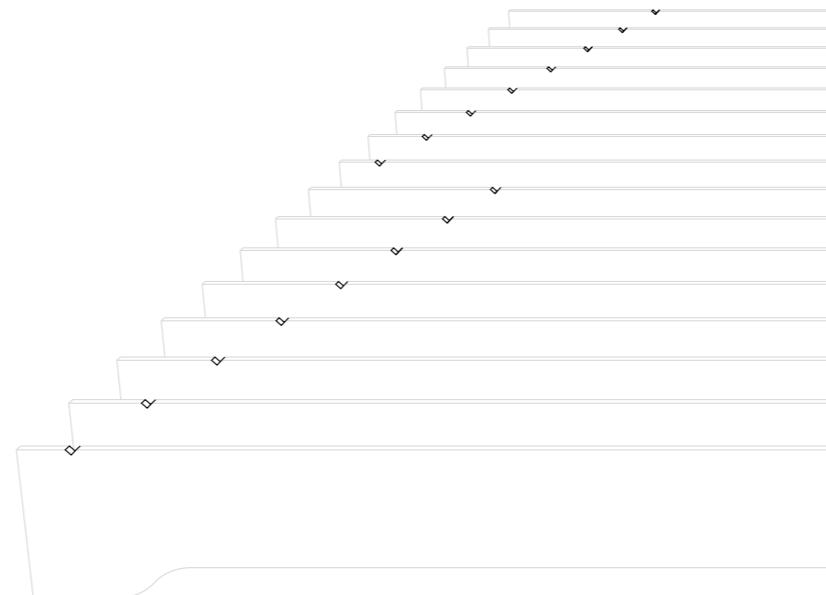
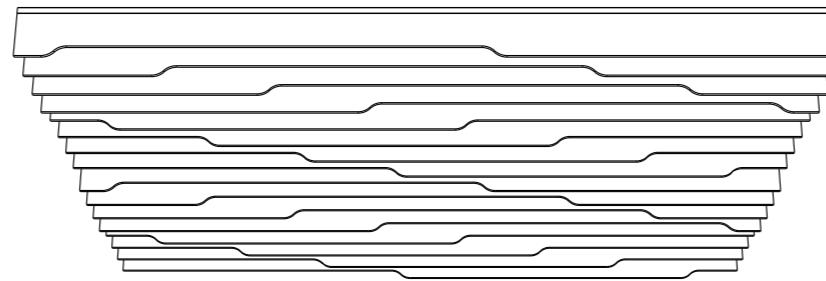
Certain styles of Frontier fins (noted below) use a notch detail to signify correct sequence and orientation prior to install. This detail is located in the top edge of the fin, and is covered by the RAFNEX channel when installed.

If you are using a style noted below, check how these notches should be sequenced for correct install order.

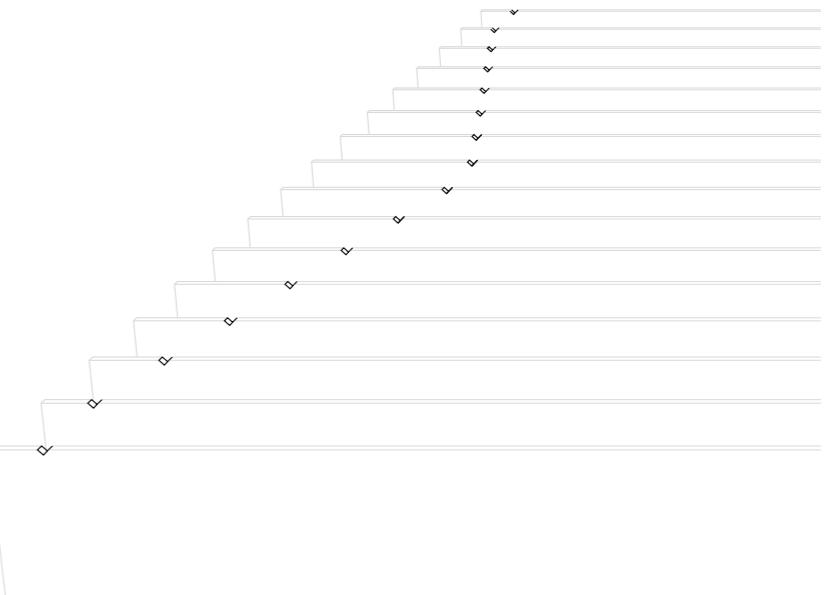
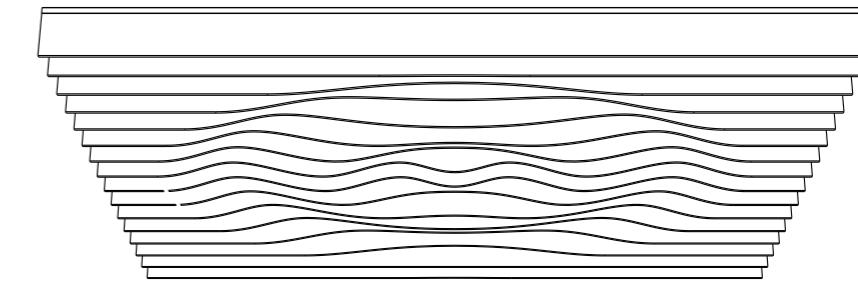
DRAPE



GLIDE



RIPPLE

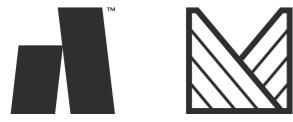


Drape fins are all unique, so the sequence continues throughout the pack.

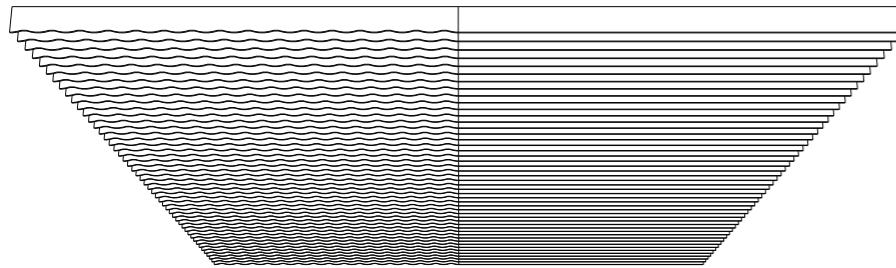
The Glide pattern repeats once within a pack, so the notches should stagger as shown.

This pattern looks continuous from beneath when installed correctly.

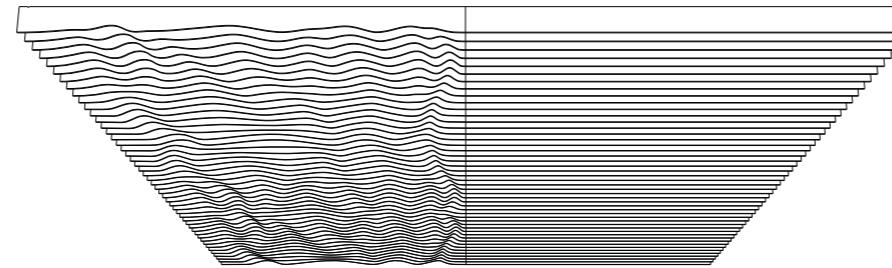
Ripple has a symmetrical pattern, so the notches should reverse direction at half-way like shown.



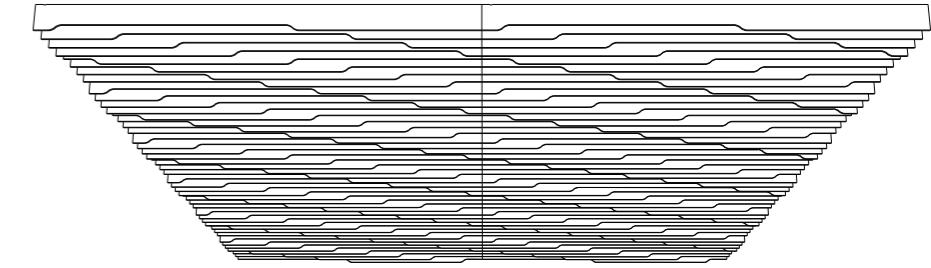
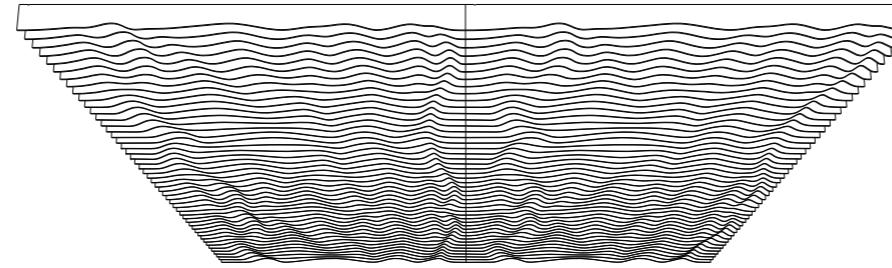
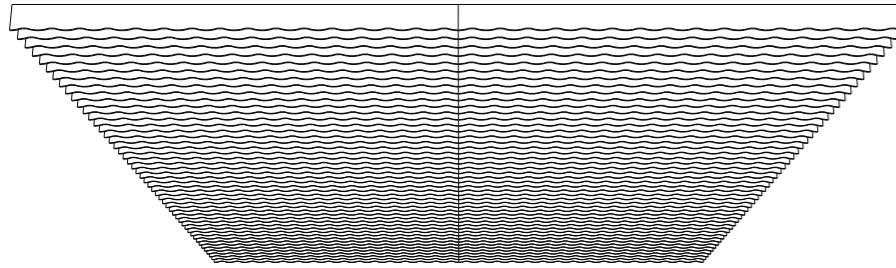
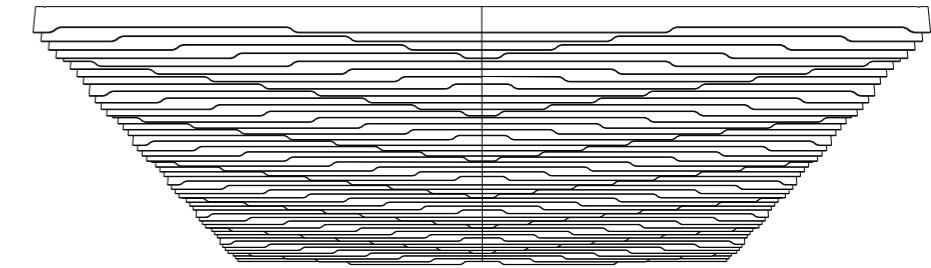
WAVE



DRAPE

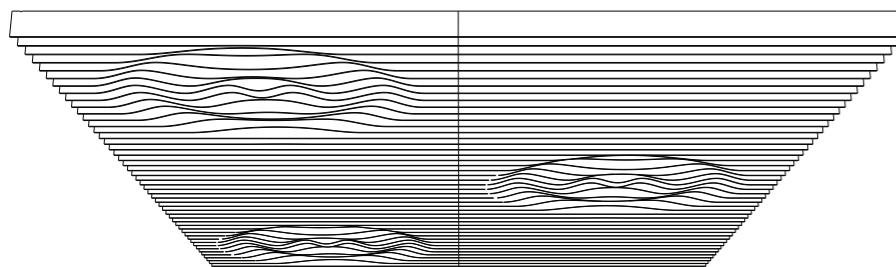


GLIDE



Tip: For a more irregular pattern, fin sequence can be mirrored between packs. Fins should stay the same orientation end-to-end though.

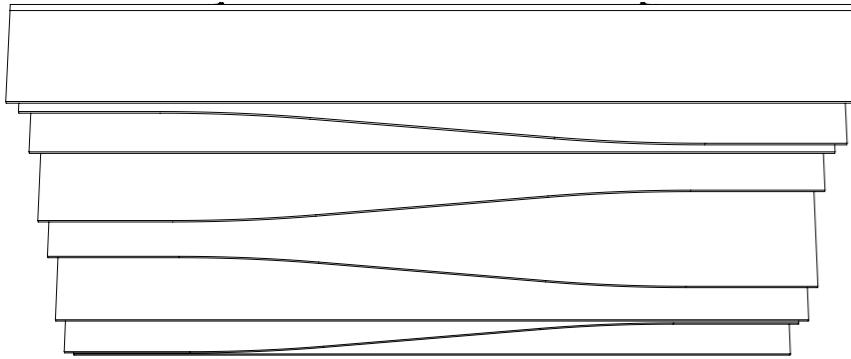
RIPPLE



Note:  
6x packs are shown arrayed in each example (2 wide x 3 long).  
All styles are designed to pair with Tundra 6" if desired.

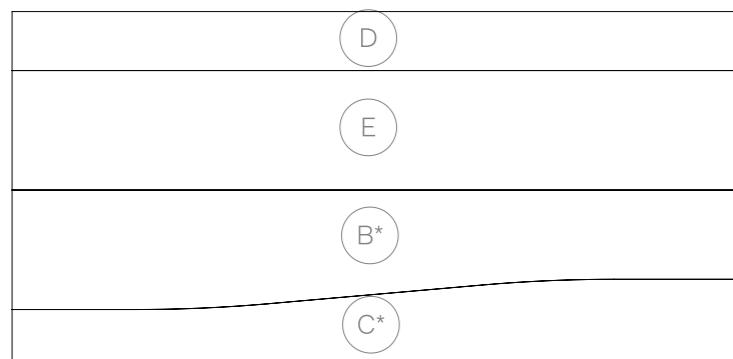
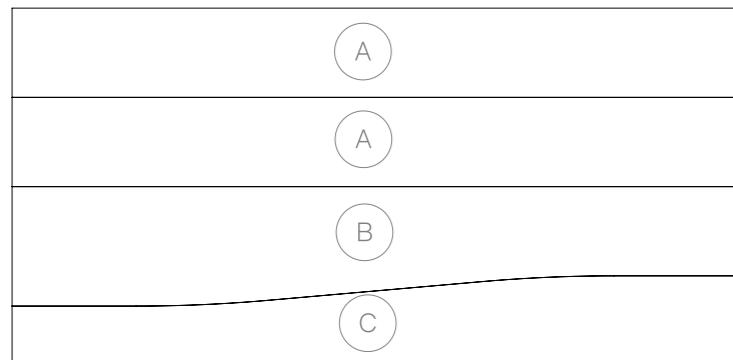


DUNE

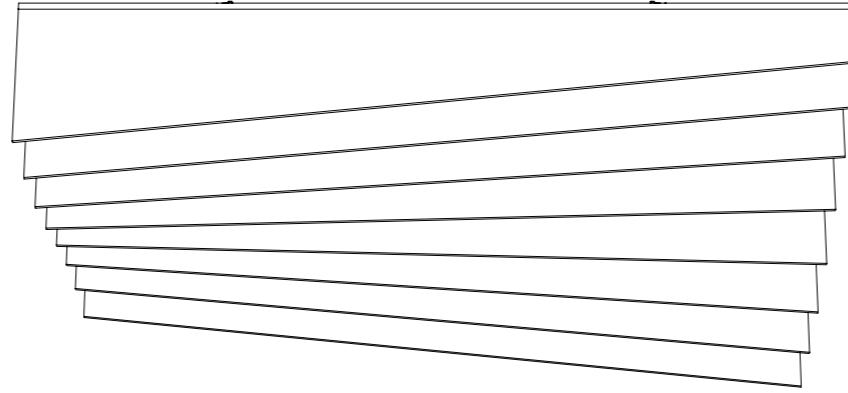


Install sequence pattern as shown above  
A, C, D, C\*, B, E, B\*, A

Box layout as shown below.

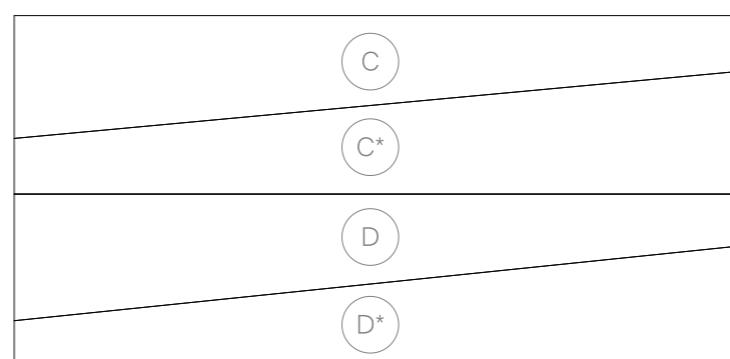
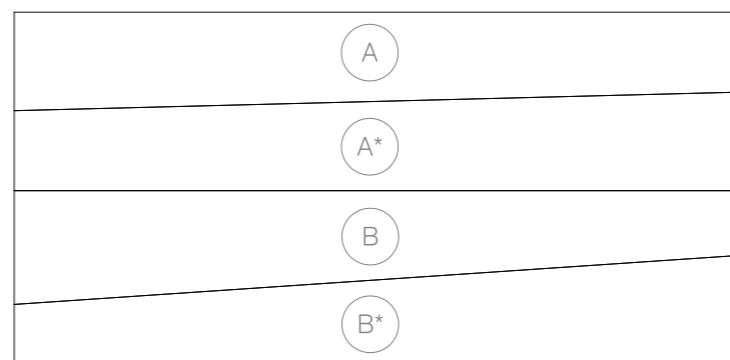


SIERRA



Installation sequence pattern as shown above  
D, C, B, A, A\*, B\*, C\*, D\*...  
To continue the pattern, the following set of 8 fins will be in the  
REVERSE order

Box layout as shown below.

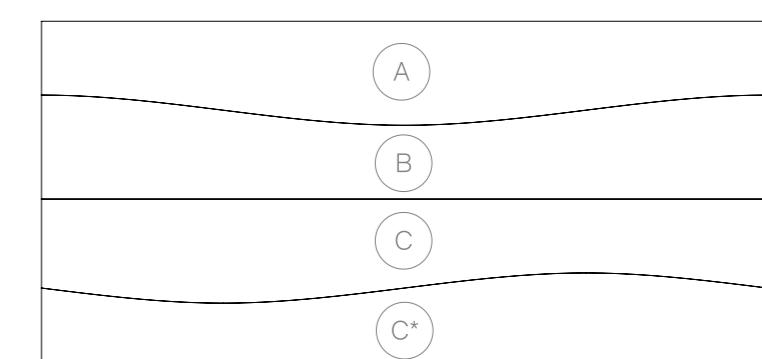
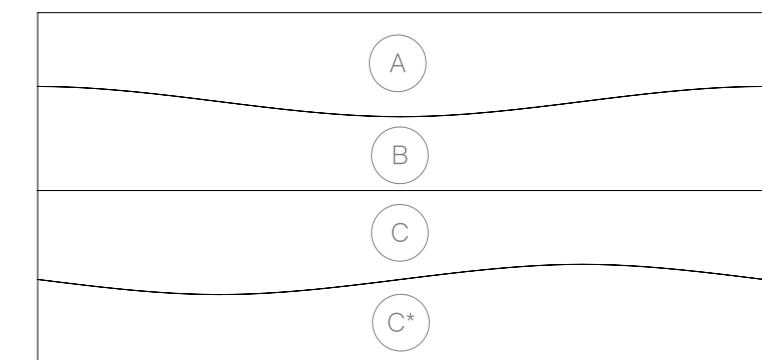


TALUS



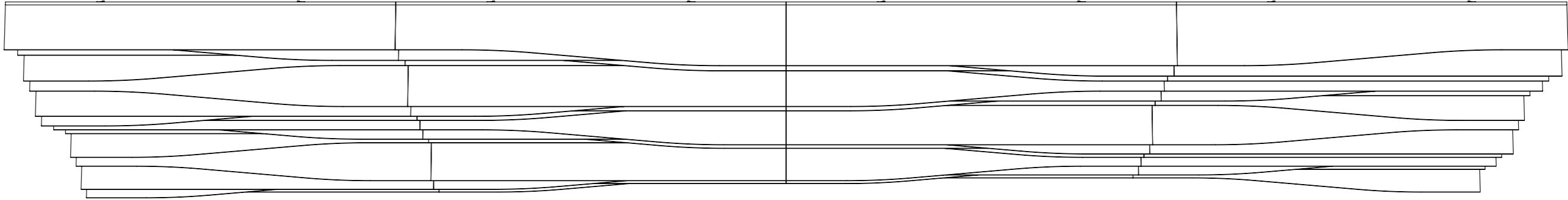
Installation sequence pattern as shown above  
A, C, B, C\*, A, C, B, C\*...

Box layout as shown below.

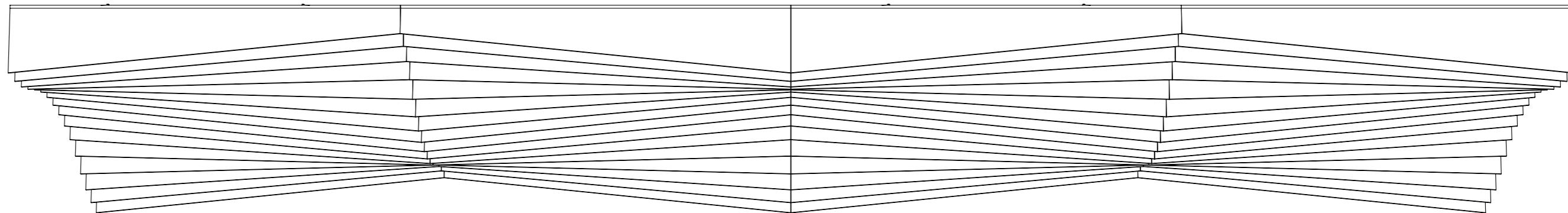




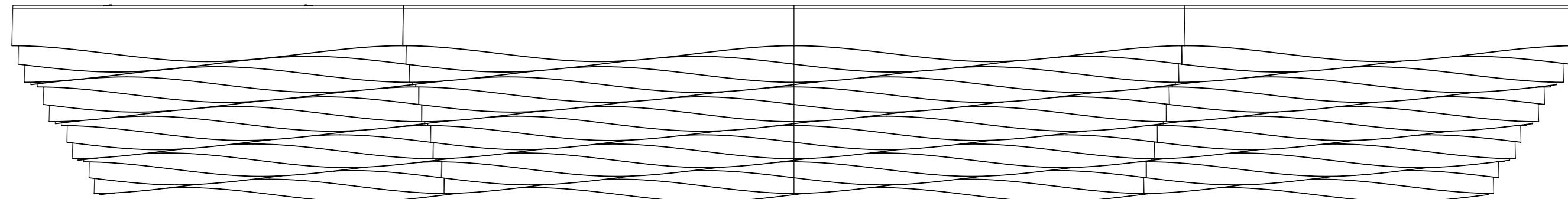
DUNE



SIERRA



TALUS

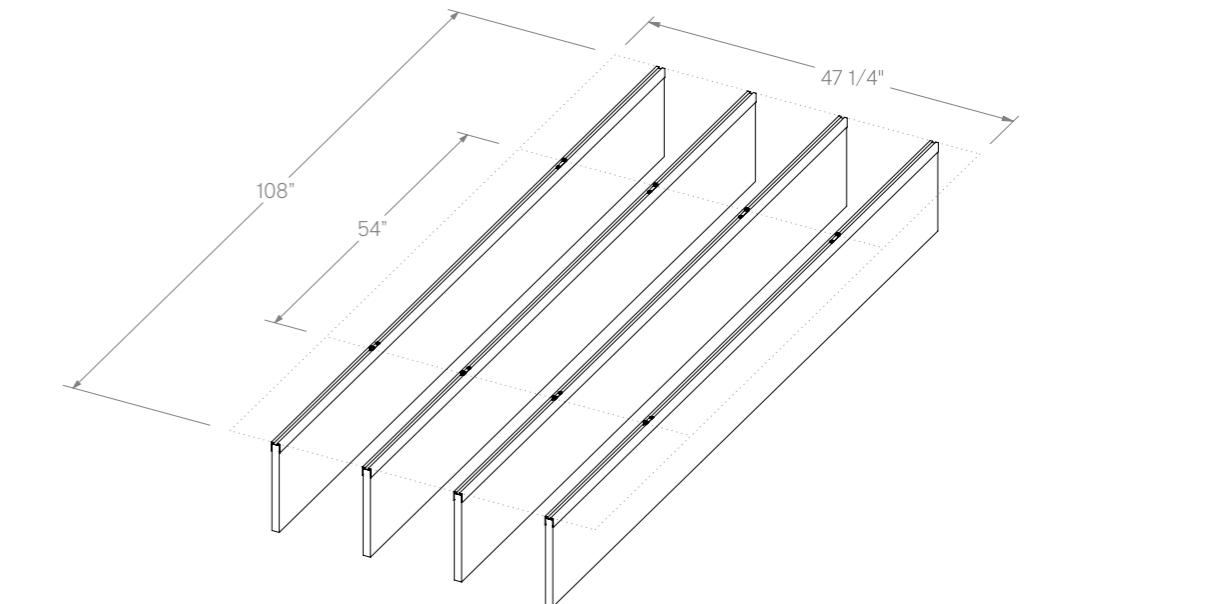
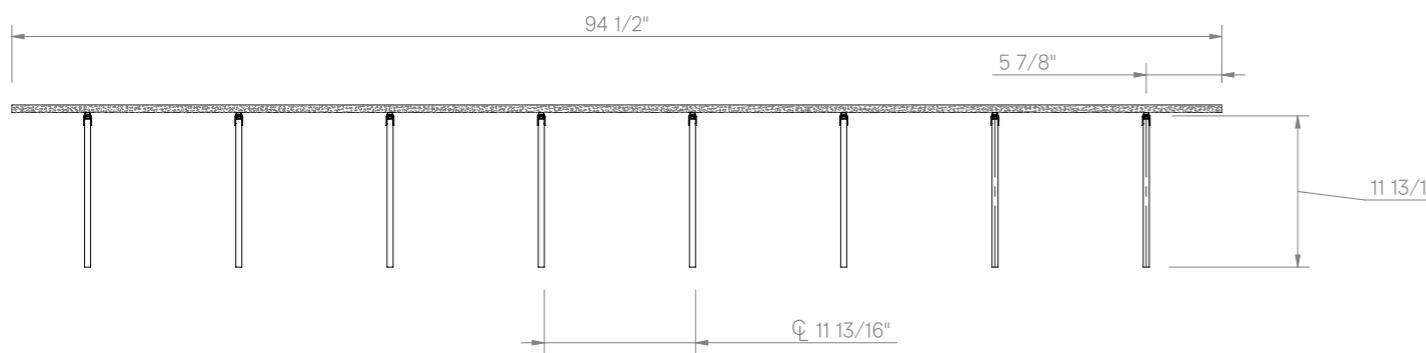
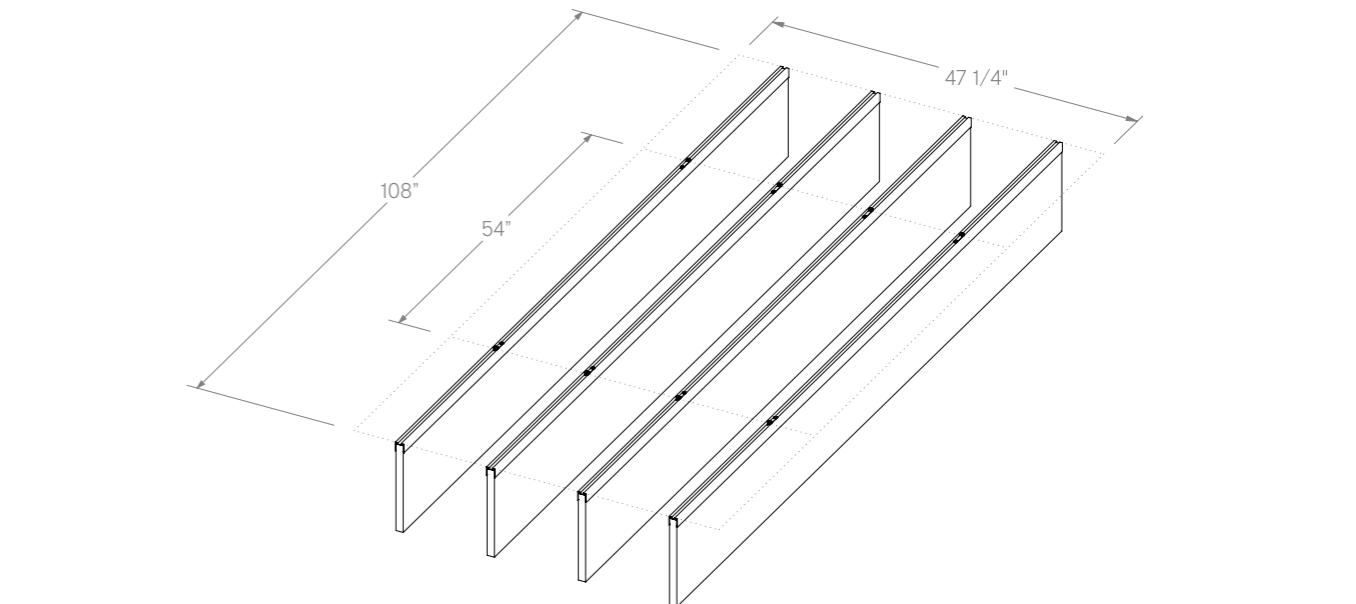
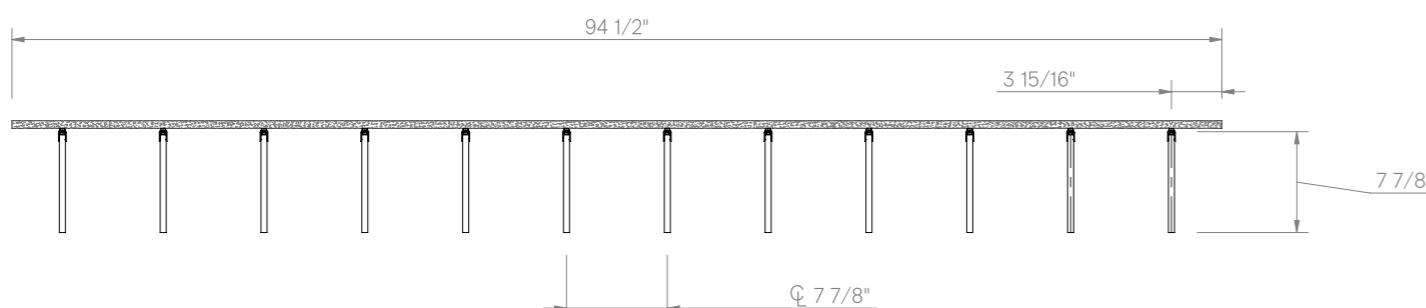
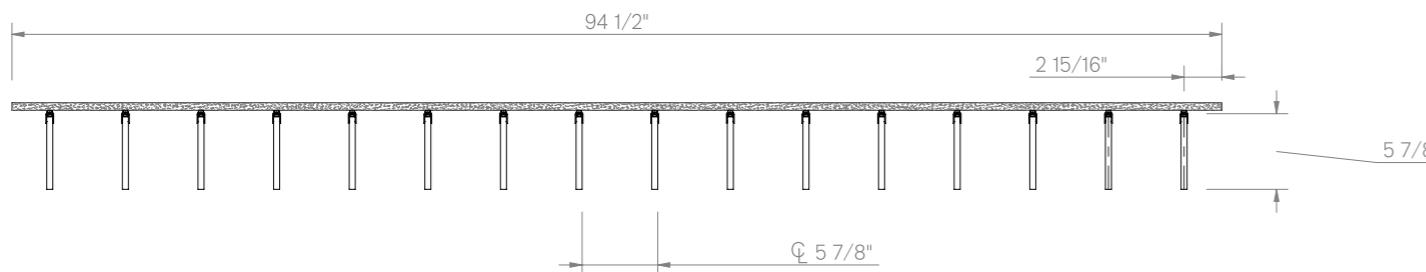
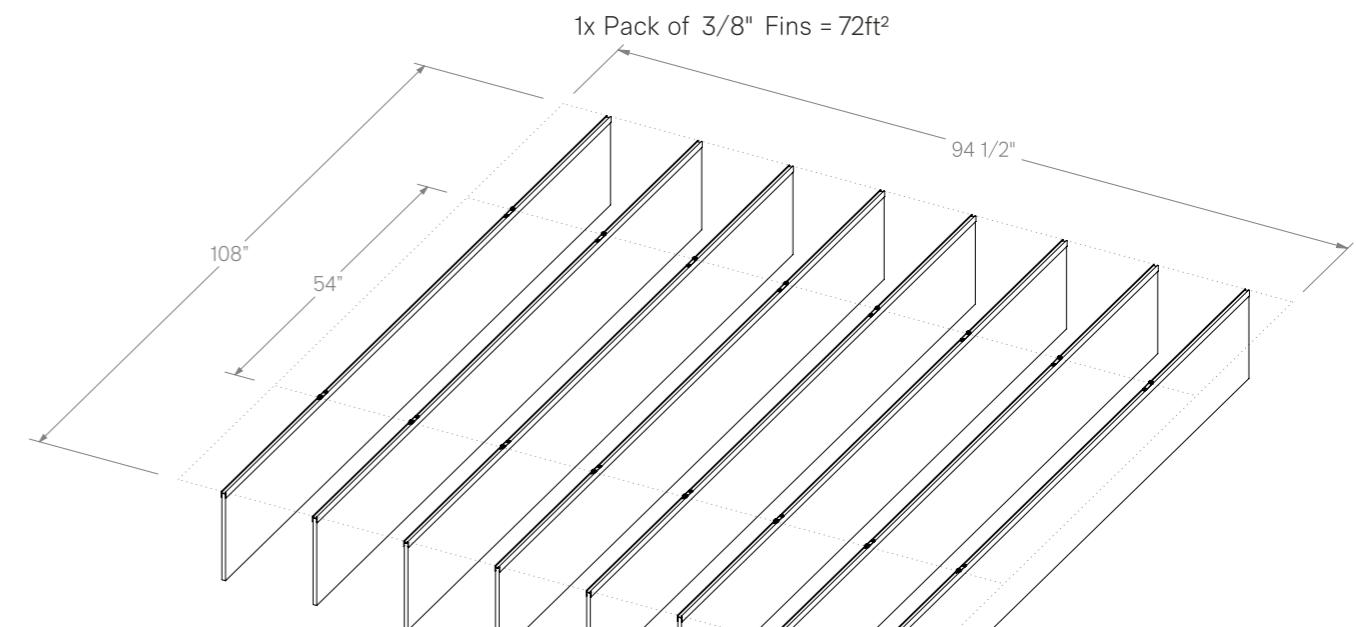
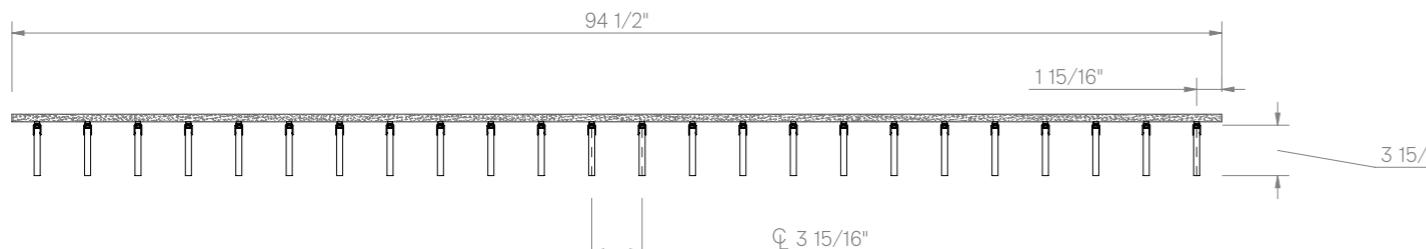
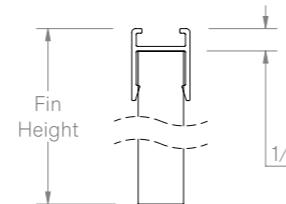




NOTES

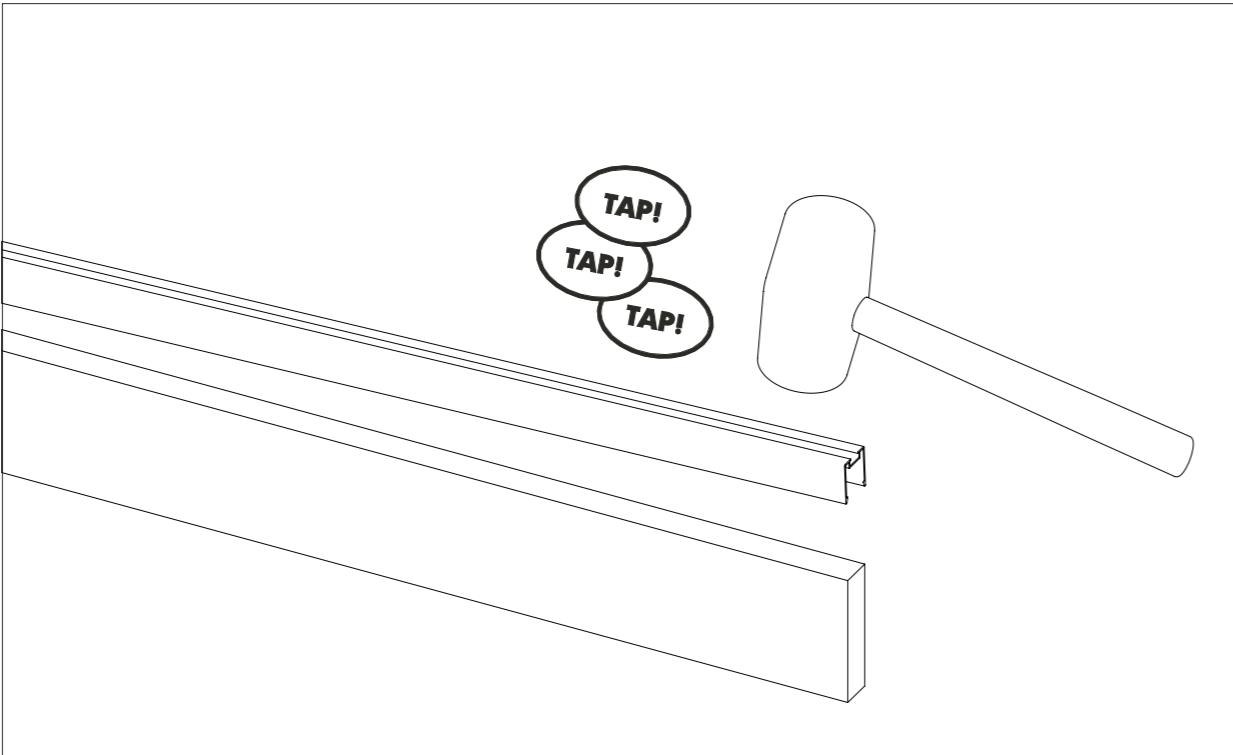
Equal to fin height unless indicated by  
Shop or Architectural Drawings.

- Fin height is inclusive of the  
Autex Frontier Extrusion



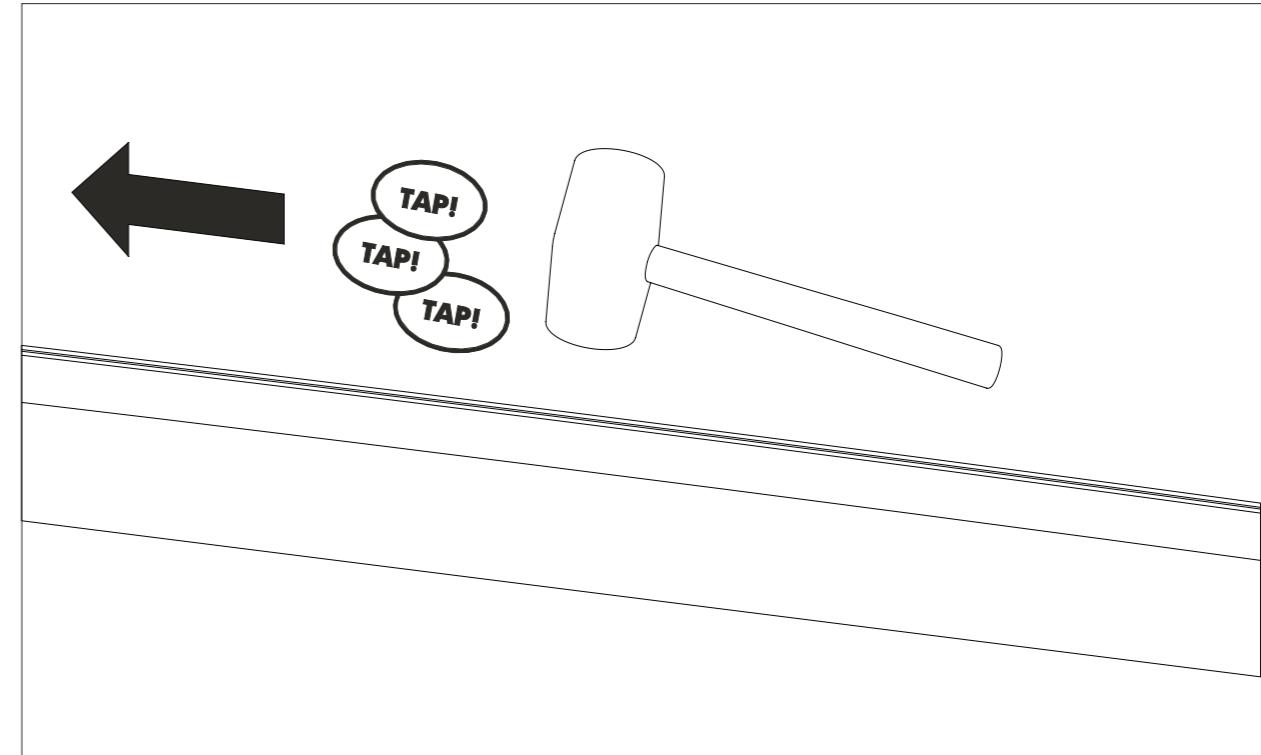


1.



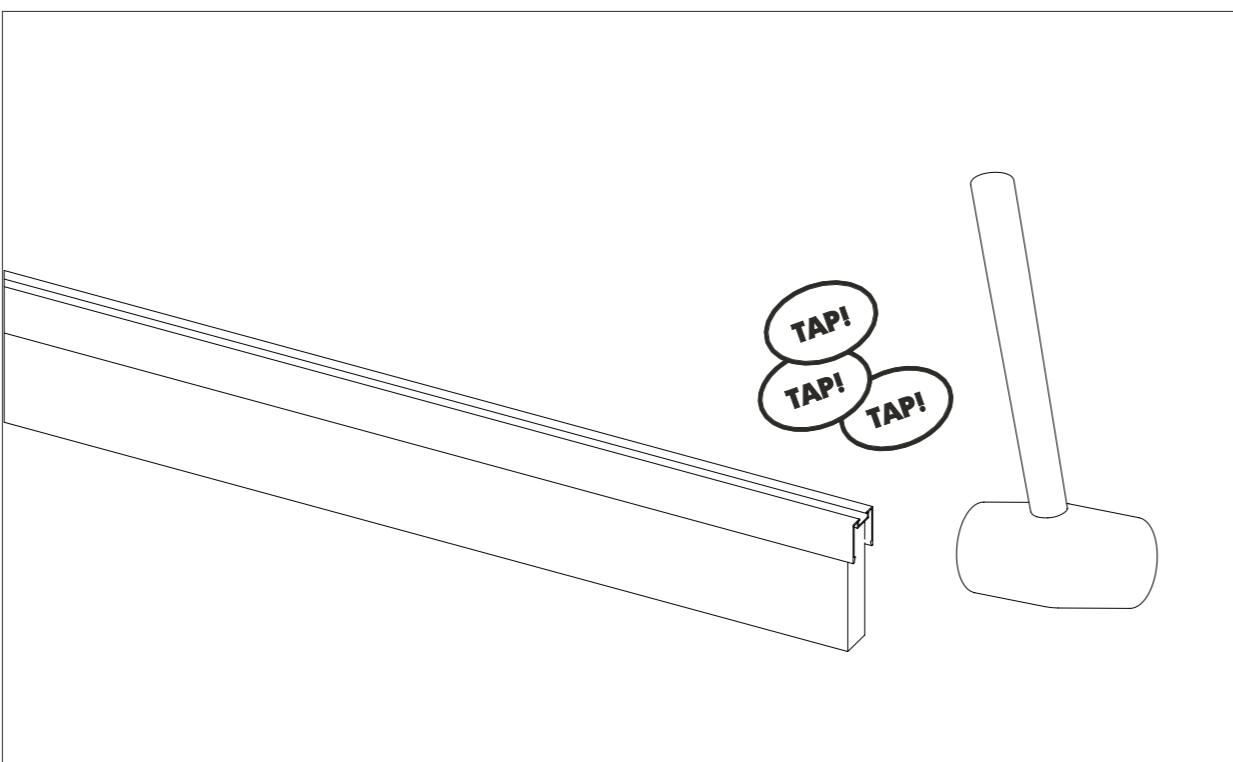
Using a rubber mallet, seat the channel onto the fin.

2.



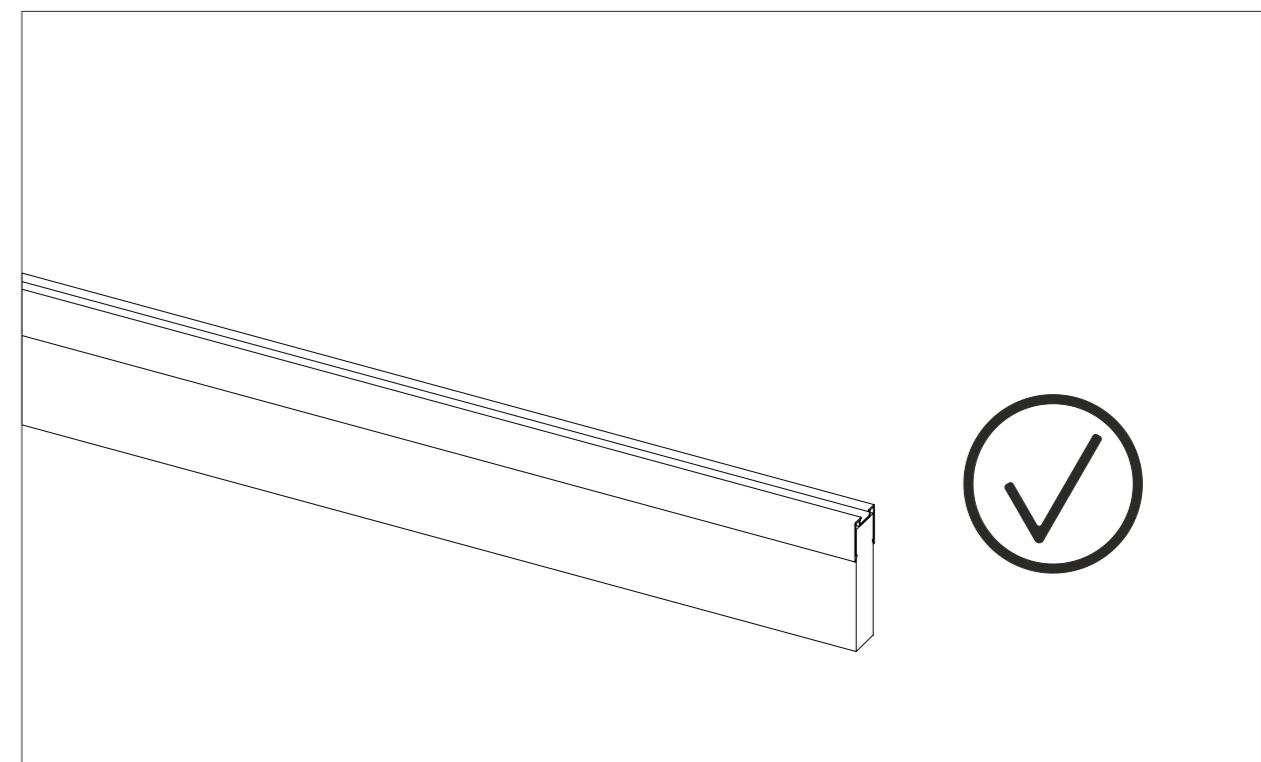
Starting at one end and using the mallet, tap along the length of the channel to ensure there is no bowing in the centre and the channel is seated correctly.

3.



Ensure the end of the channel is aligned with the Frontier Fin by tapping the overhanging end of the extrusion.

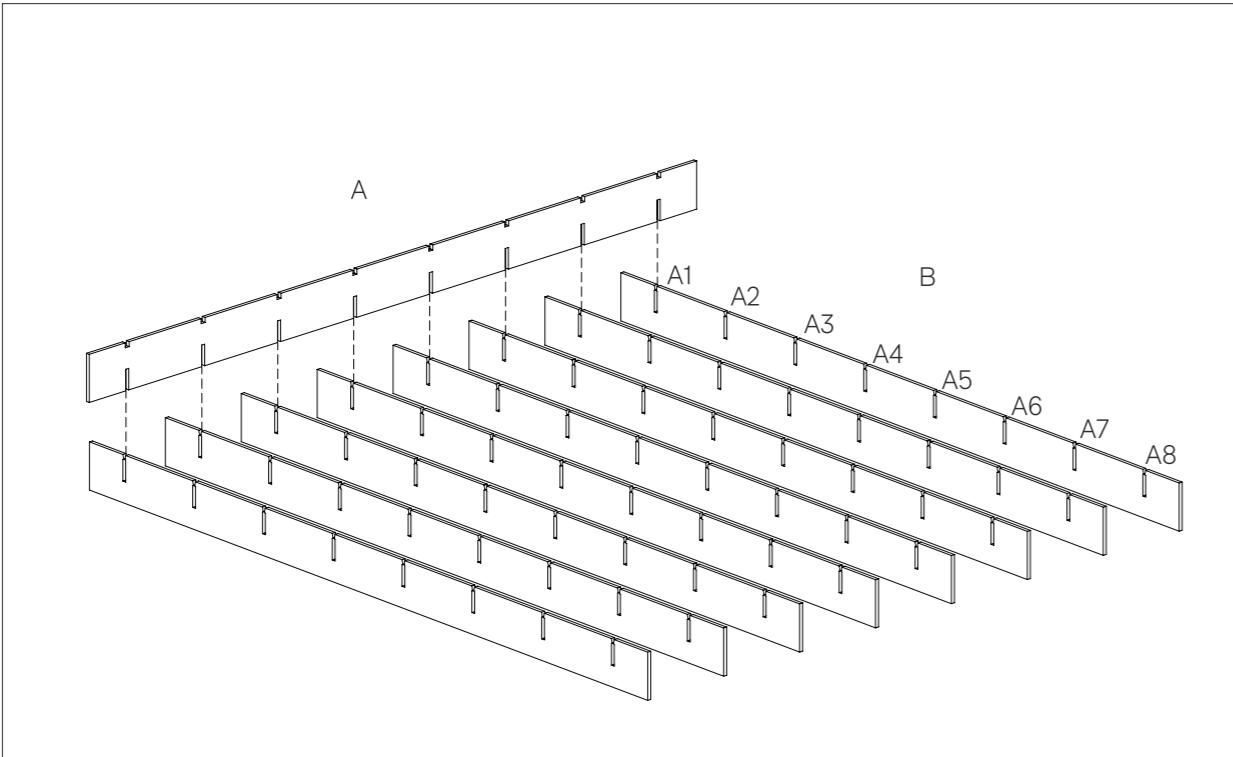
4.



The Frontier Fin is now ready for installation to the ceiling.

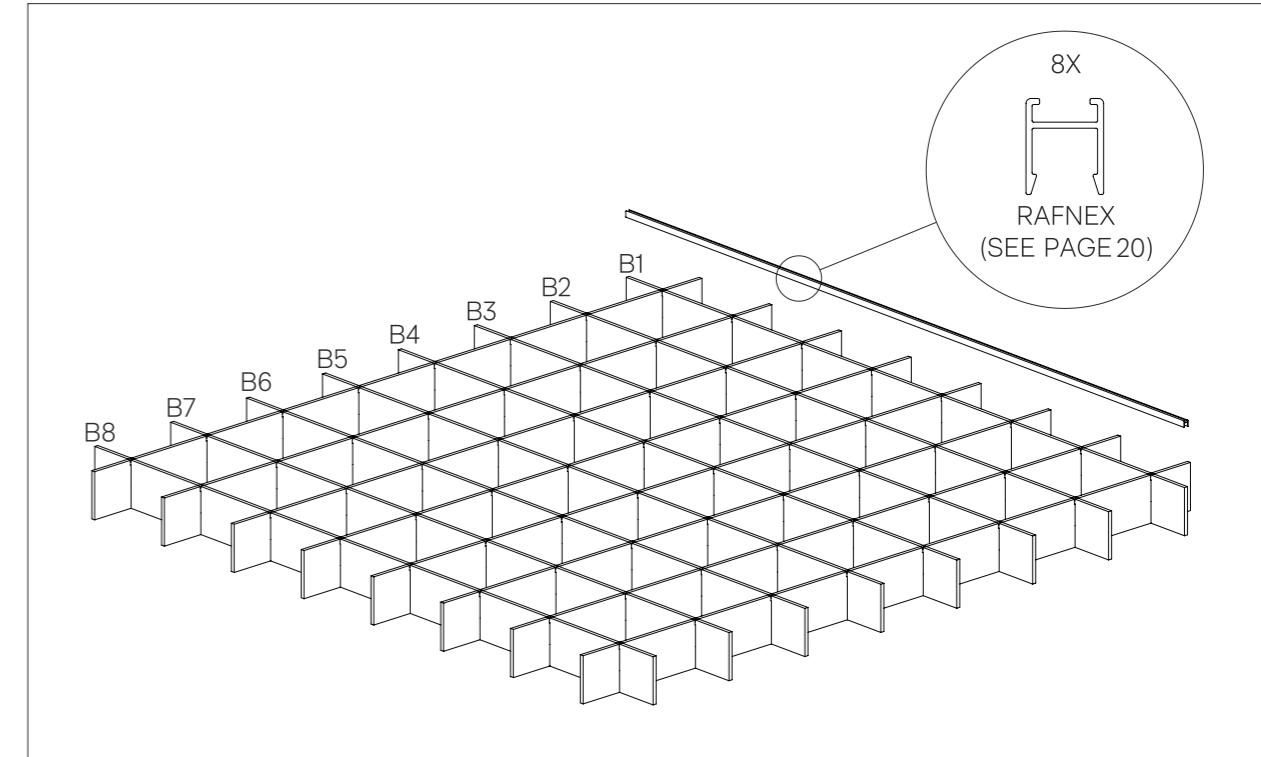


1.



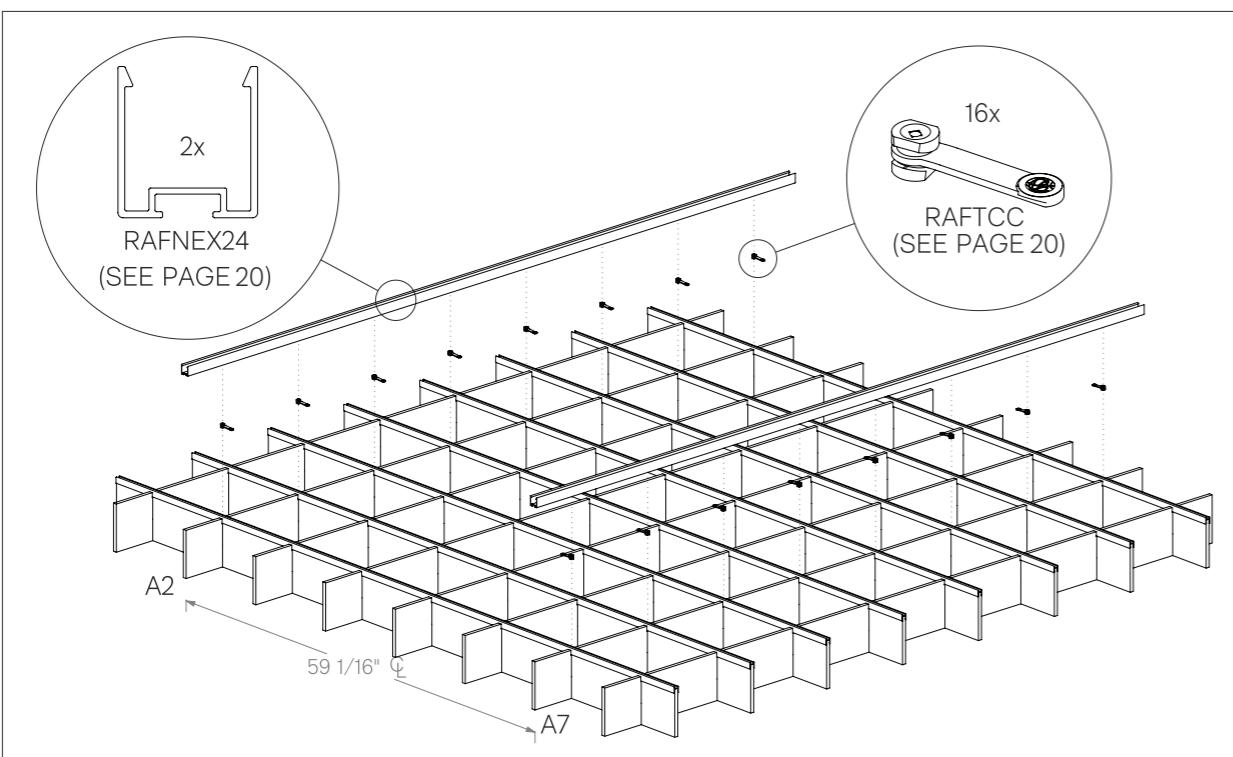
In the Frontier Axis pack there are two types of Fin (A and B). Part A has two notches and the small notch should be facing up when inserted into Part B.

2.



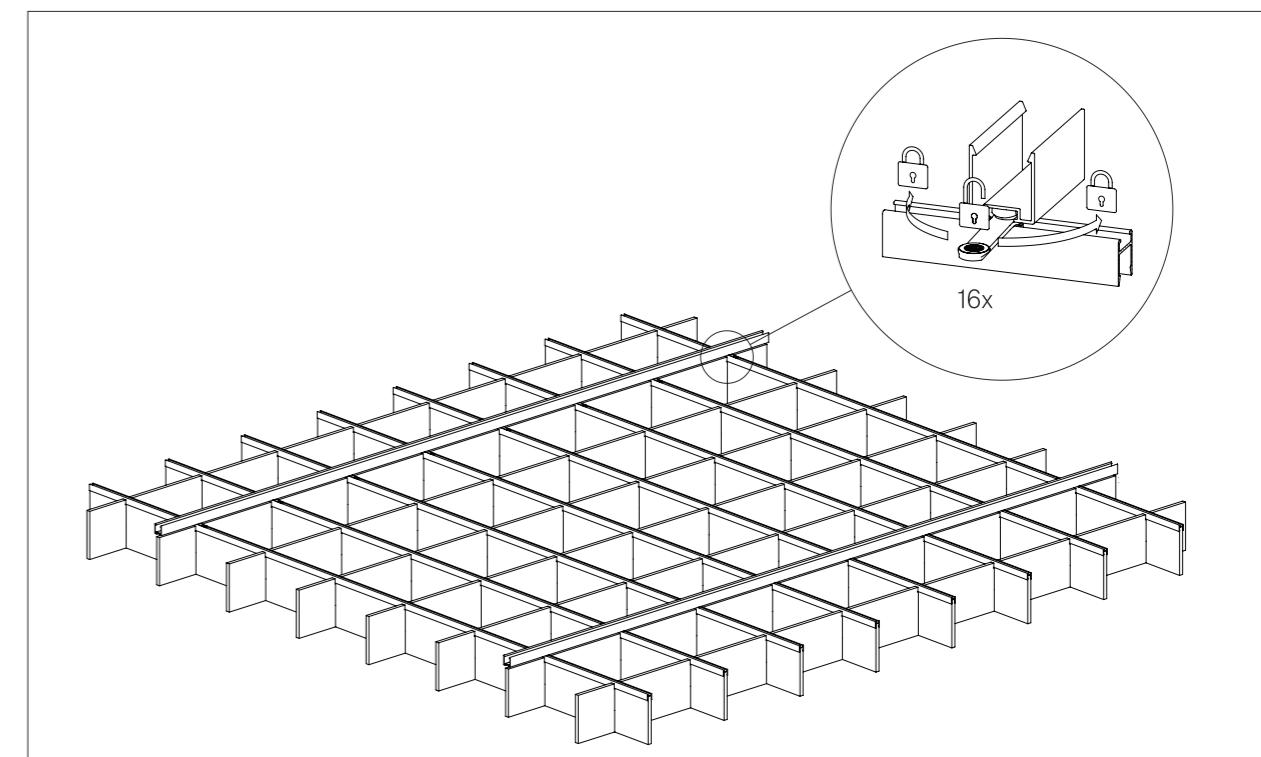
Using a rubber mallet, attach the 8x Rafnex channels along the lengths of the 'B' fins to lock the Axis Fins together in a grid.

3.



To attach the included 2x RAFNEX24 cross rails, first clip the 16x Autex Mounting Clips at the intersection points along the A2 and A7 Rails. Press the Crossrail onto the clips so they click into place.

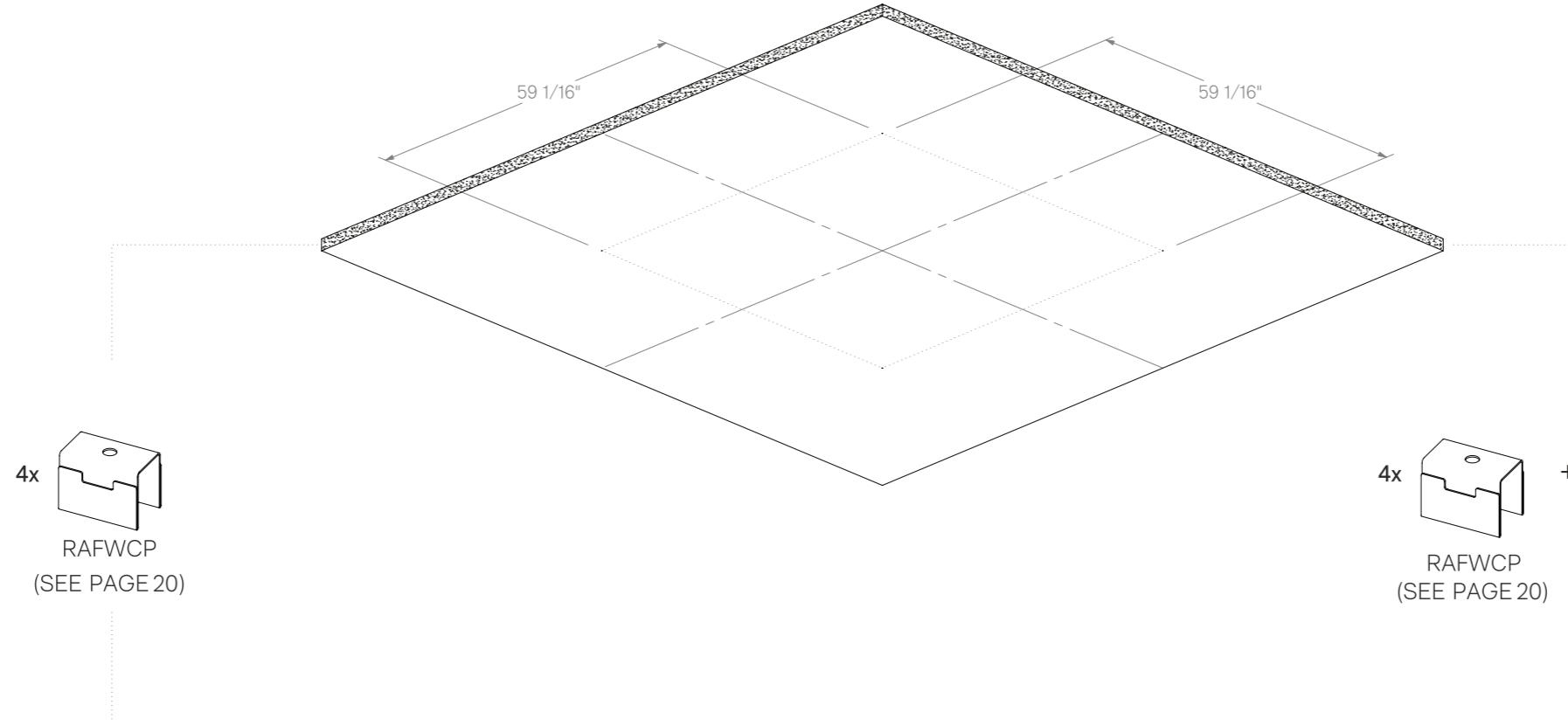
4.



Twist the Autex Mounting Clips 90° to lock them off. The Frontier Axis Grid is now ready for installation to the ceiling.



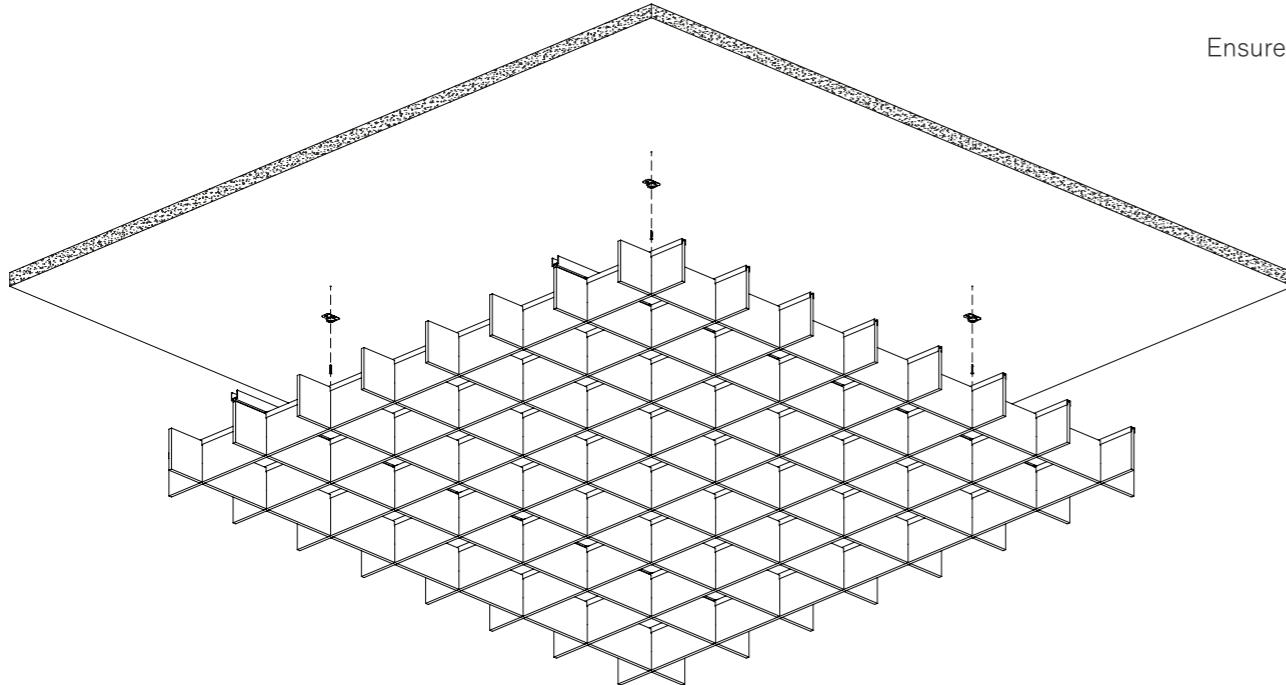
### CEILING SETOUT



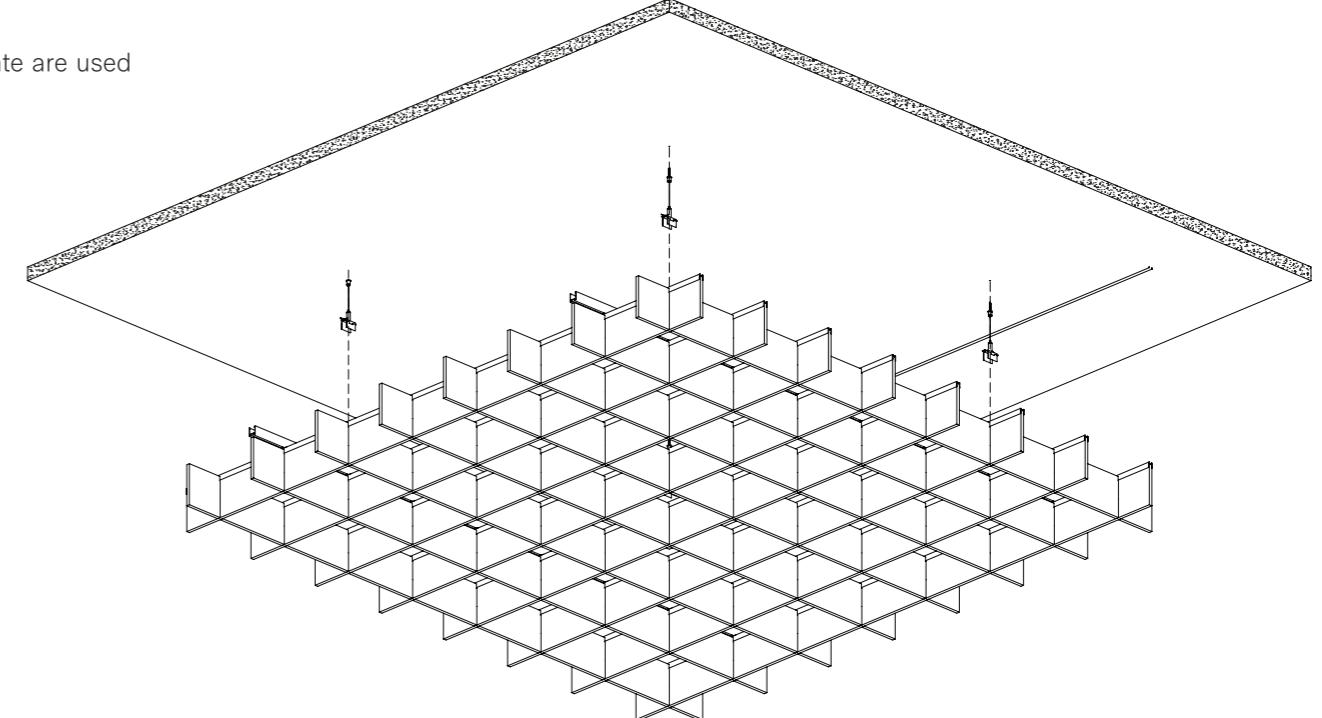
\*Can be replaced by a rigid suspension set if required. See pages 7 - 8 for suggested details

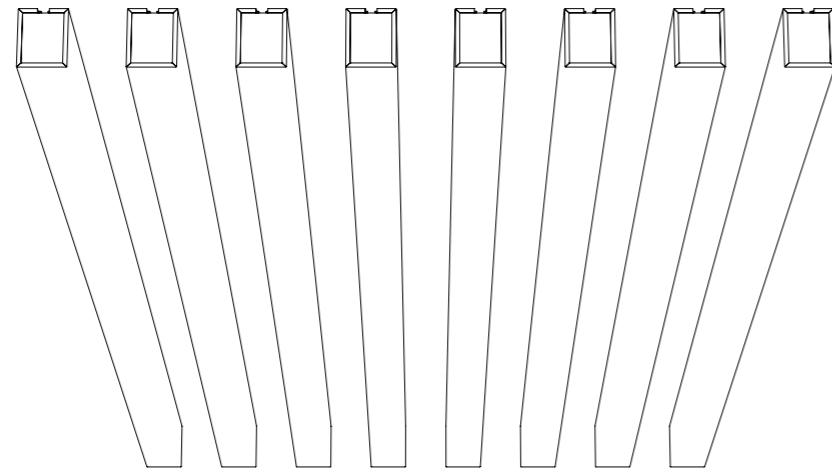
### DIRECT FIX TO CEILING

Ensure suitable fasteners for substrate are used  
(NOT SUPPLIED)

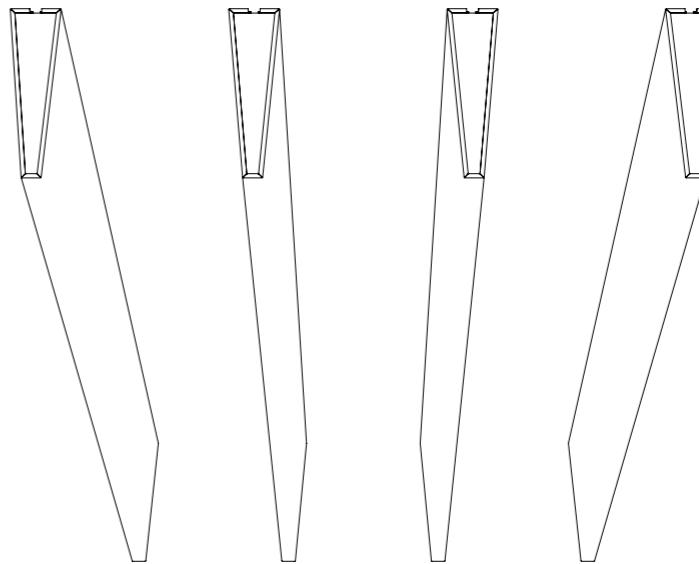


### SUSPENDED FROM CEILING

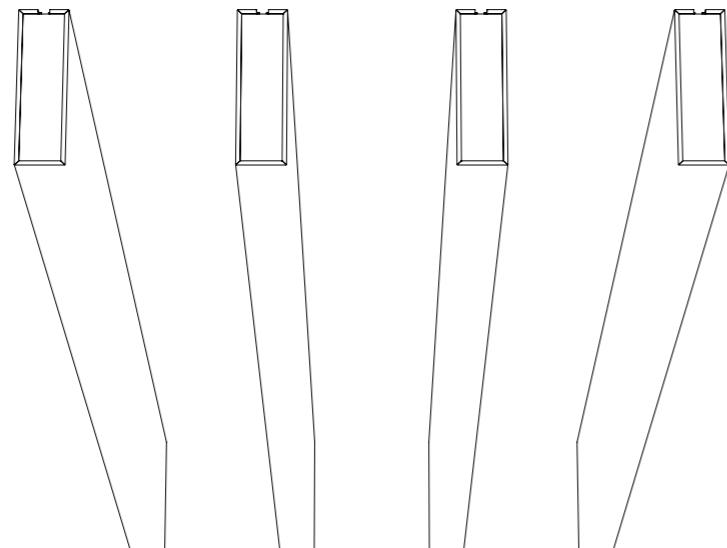




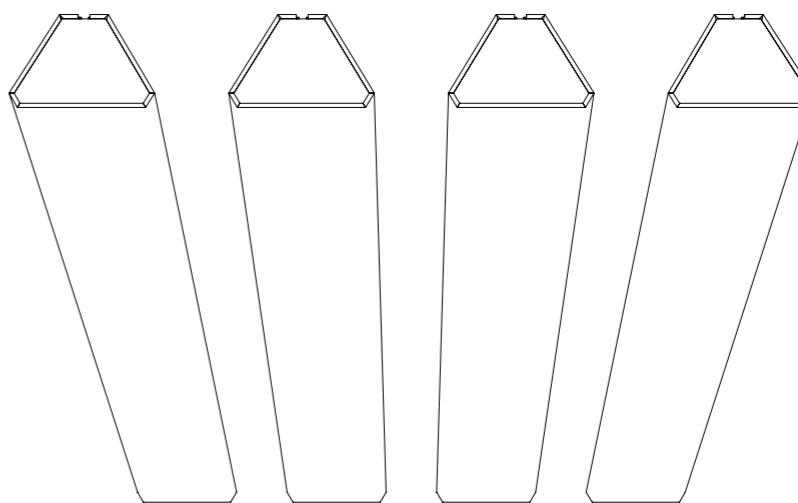
RAFT BEAM 100  
1X PACK SHOWN



RAFT BLADE  
1X PACK SHOWN



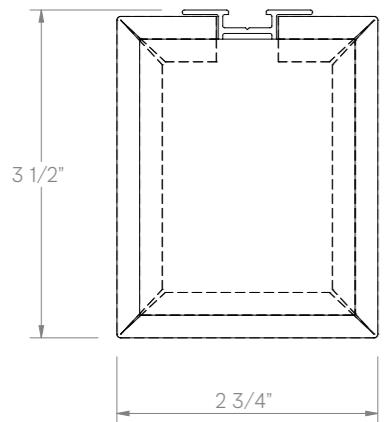
RAFT BEAM 250  
1X PACK SHOWN



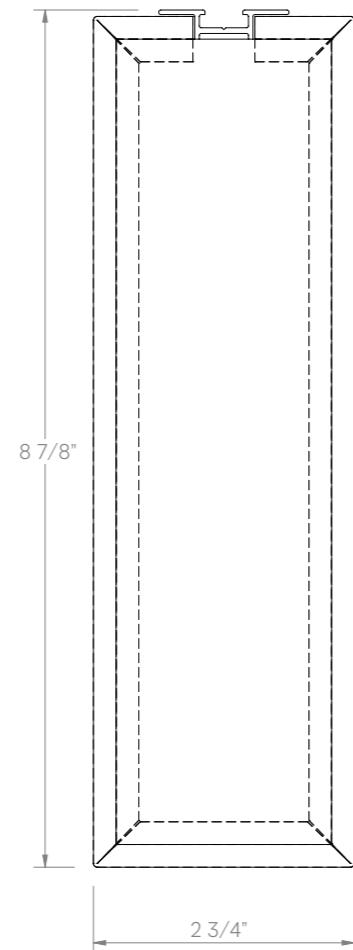
RAFT TRAPEZOID  
1X PACK SHOWN



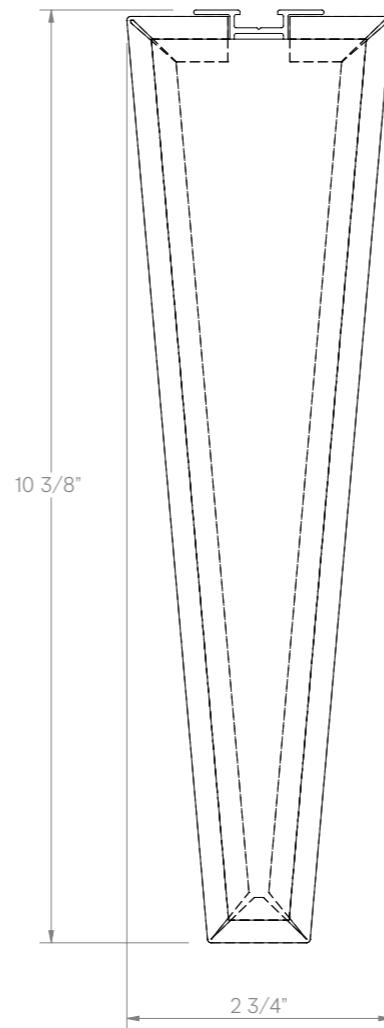
BEAM 100



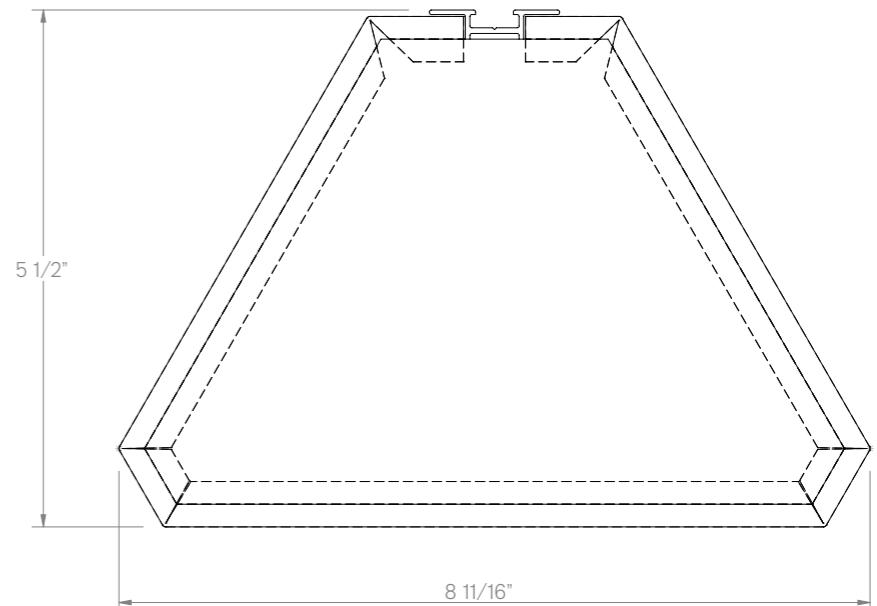
BEAM 250



BLADE

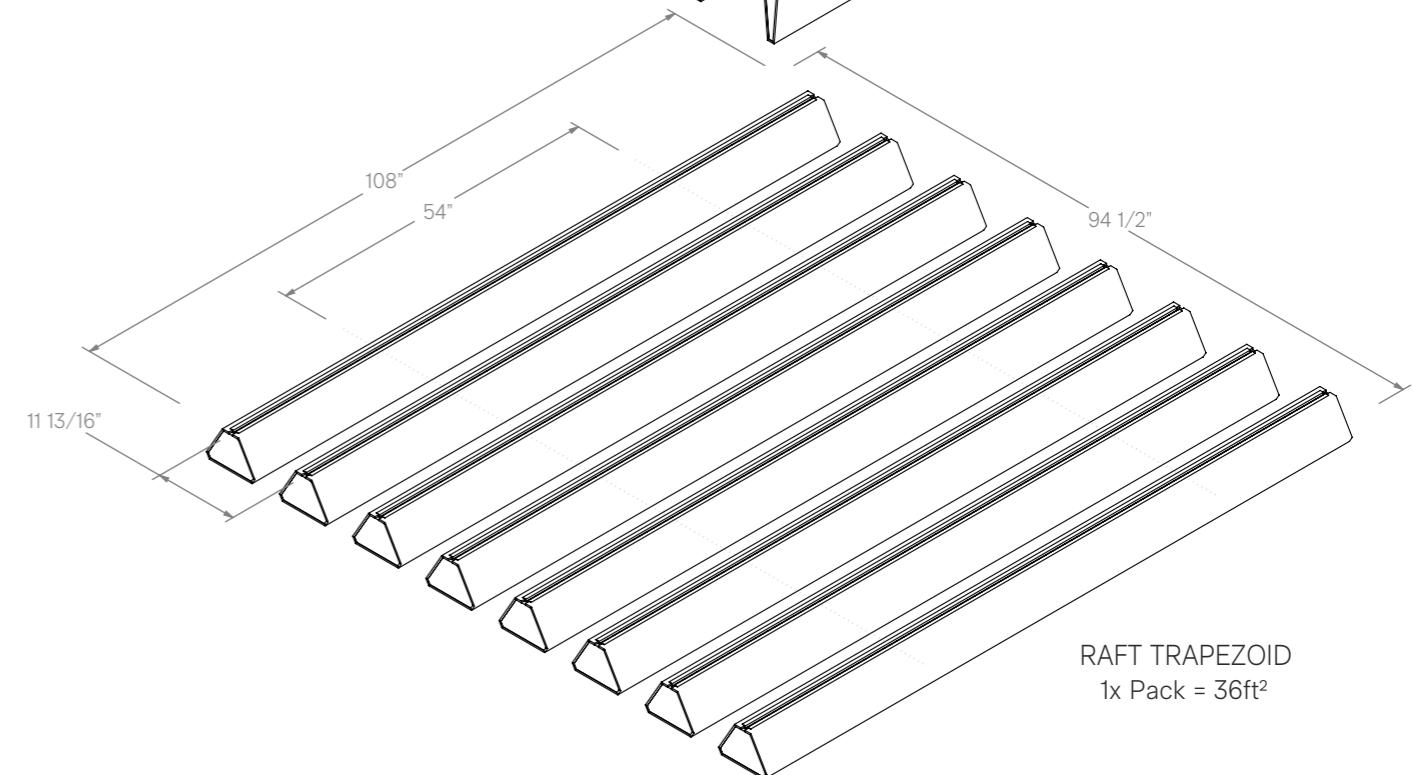
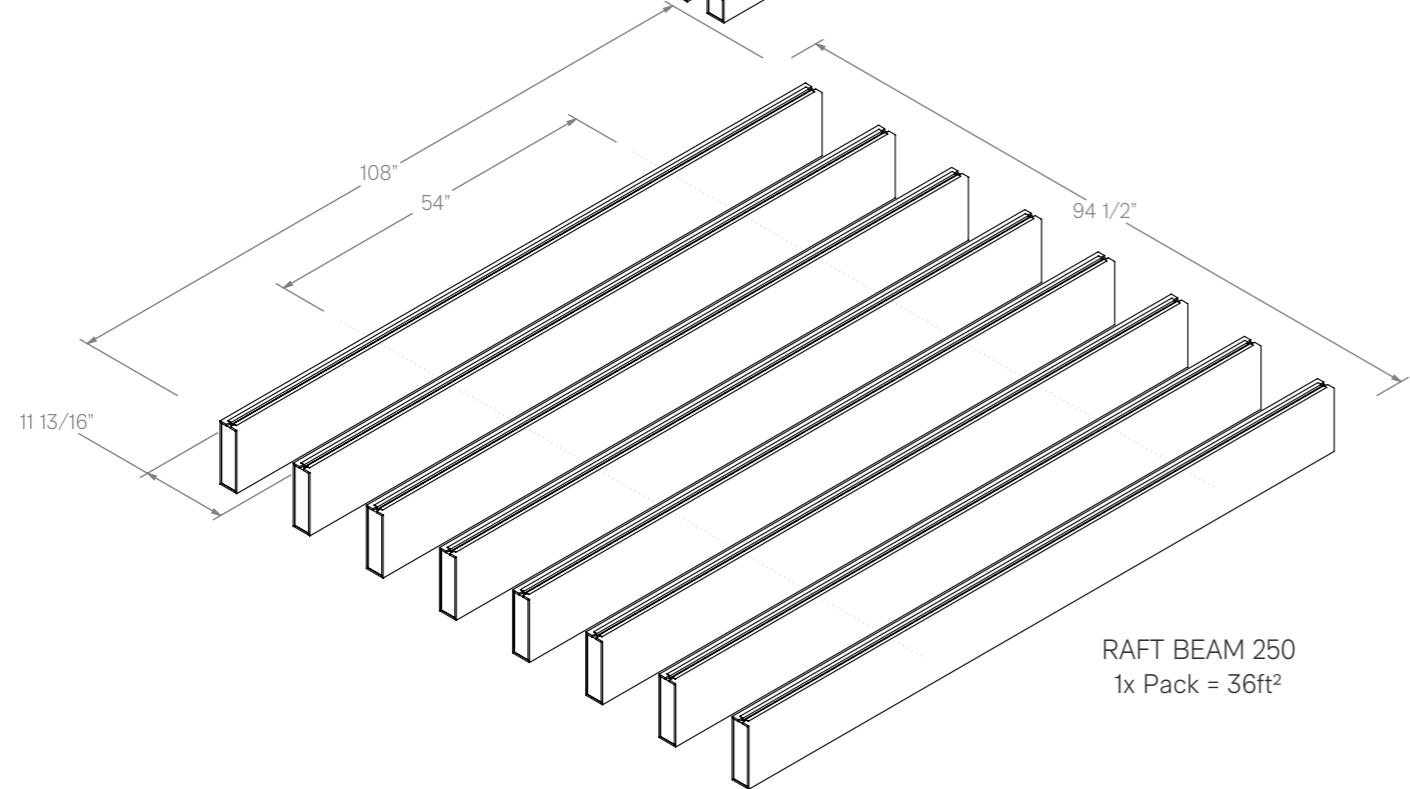
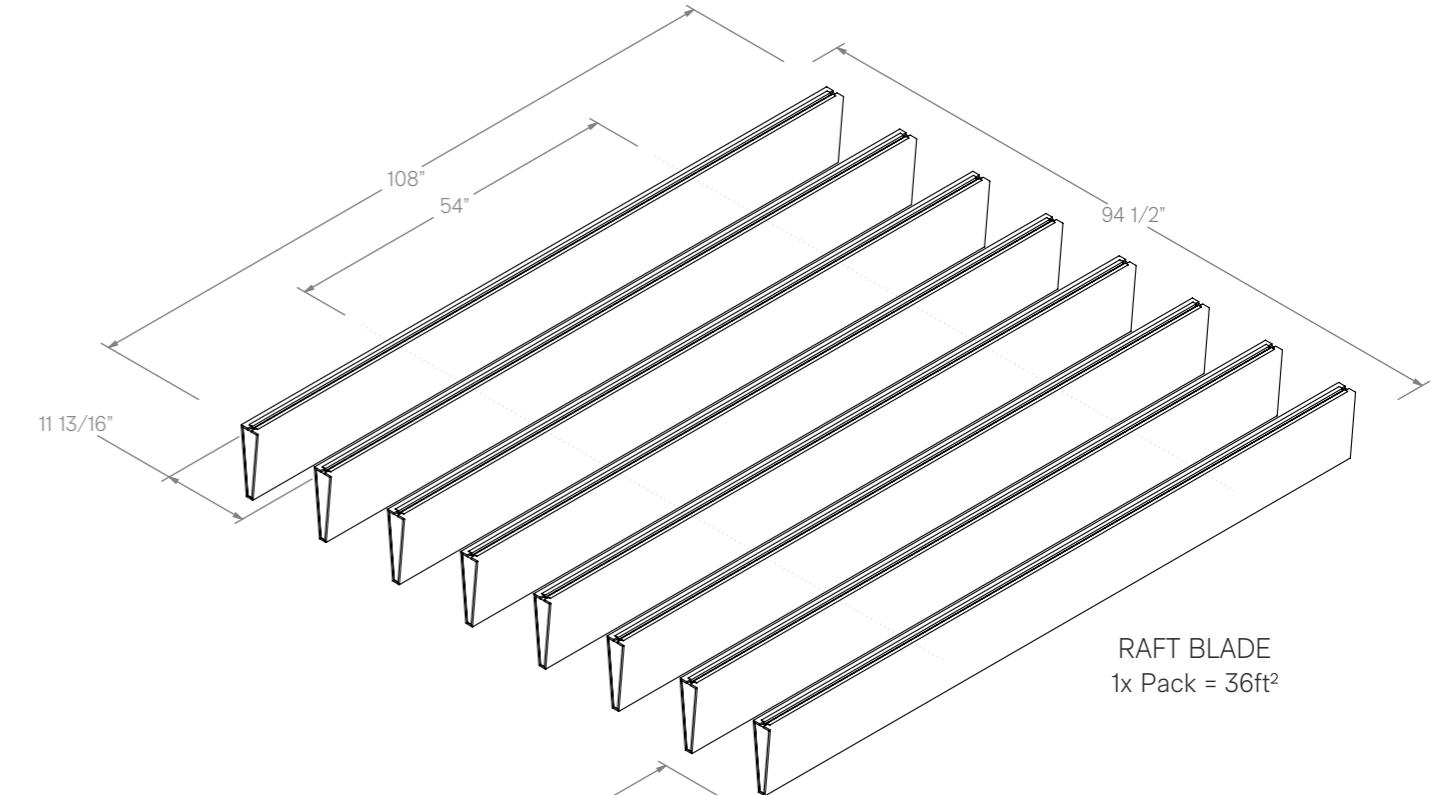
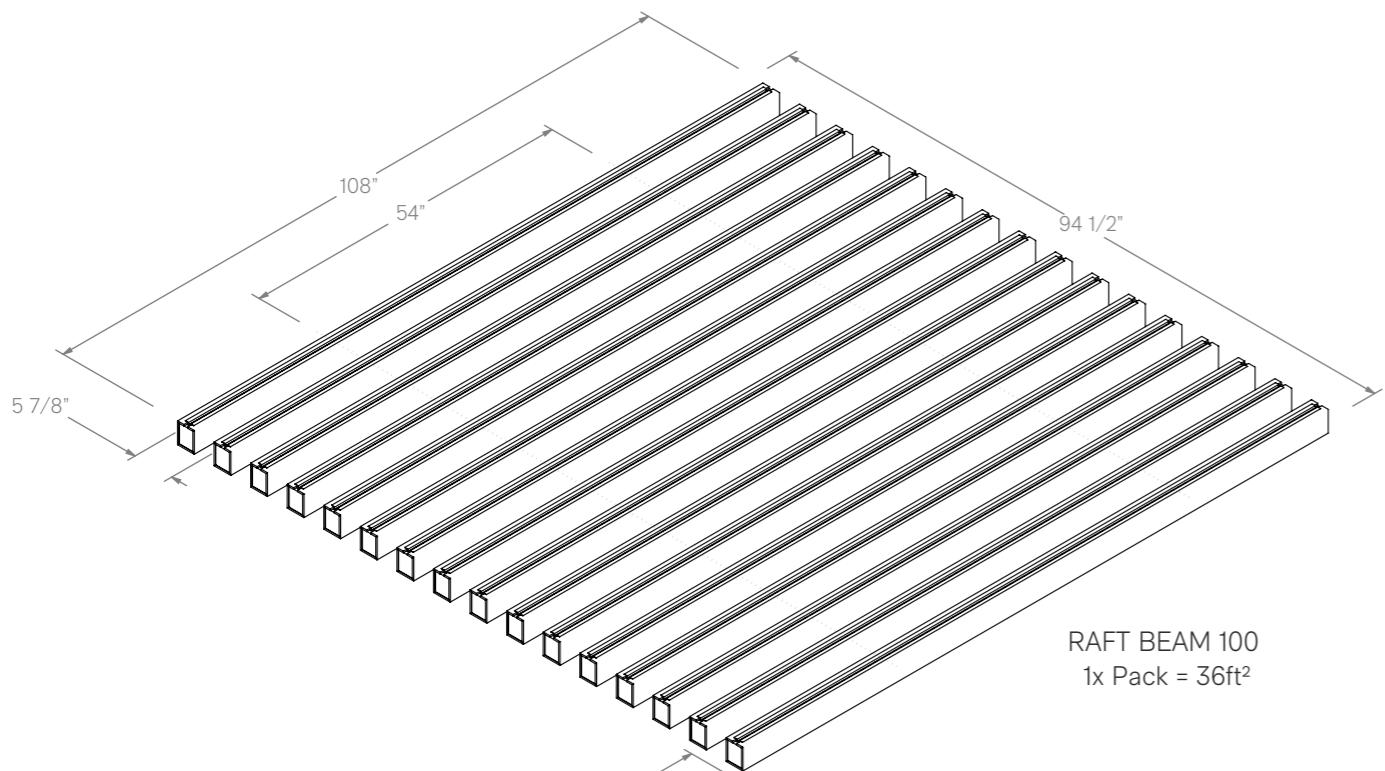


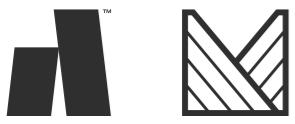
TRAPEZOID



NOTES

- Raft height is inclusive of the Autex frontier Raft Extrusion
- Refer to page 21 for recommended Raft spacing

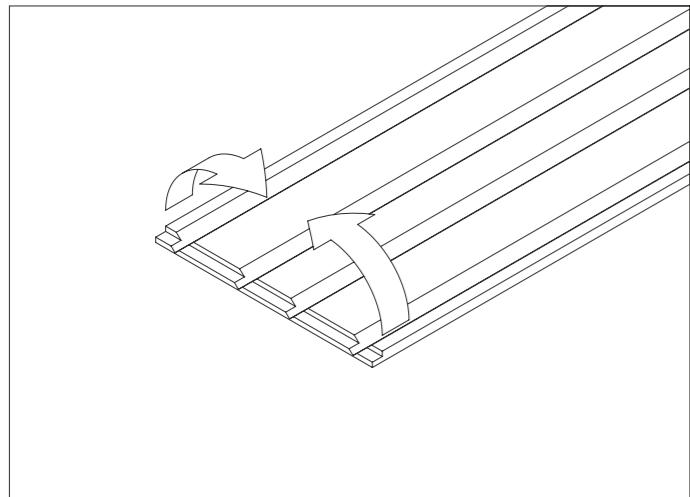




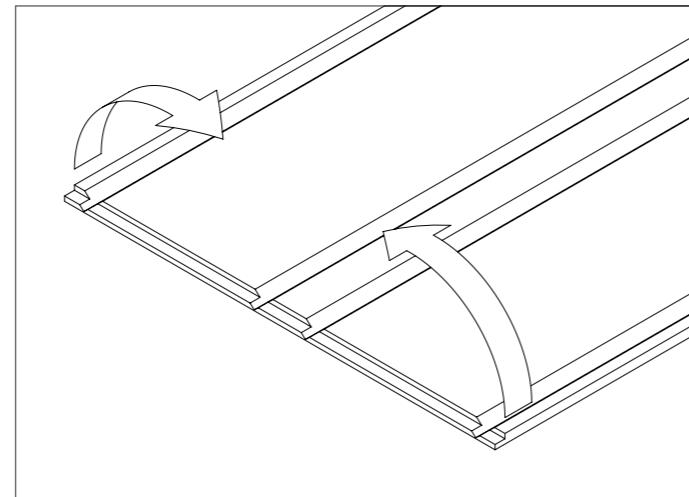
# Frontier™ Install Instructions

## Raft Assembly

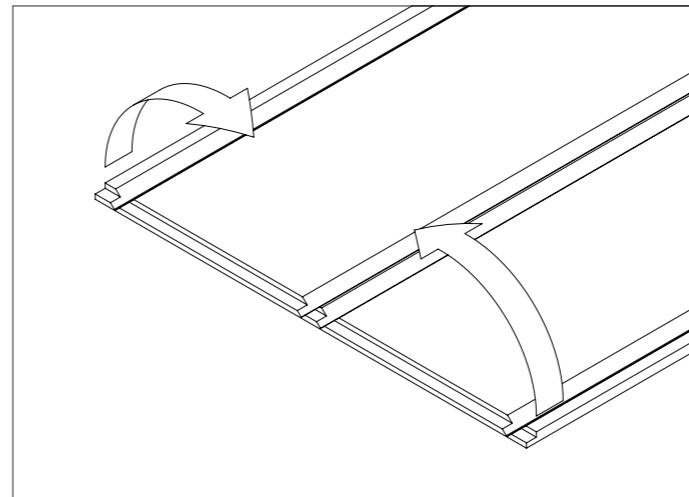
BEAM 100



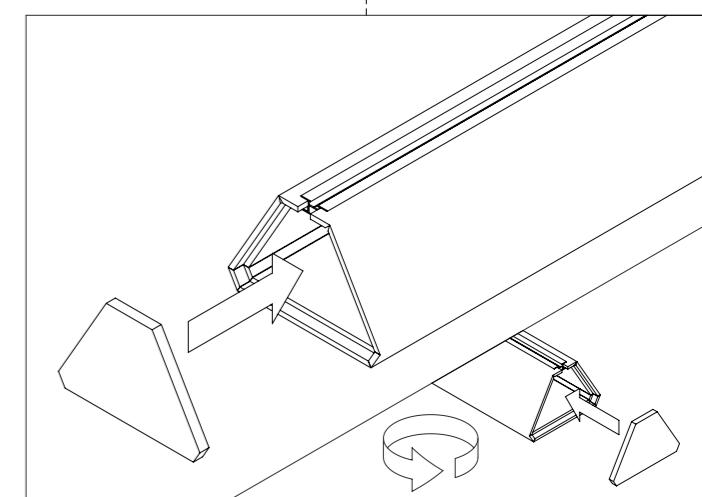
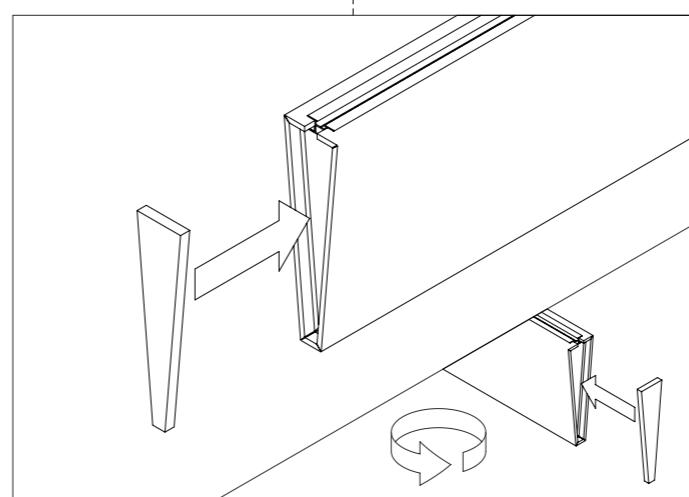
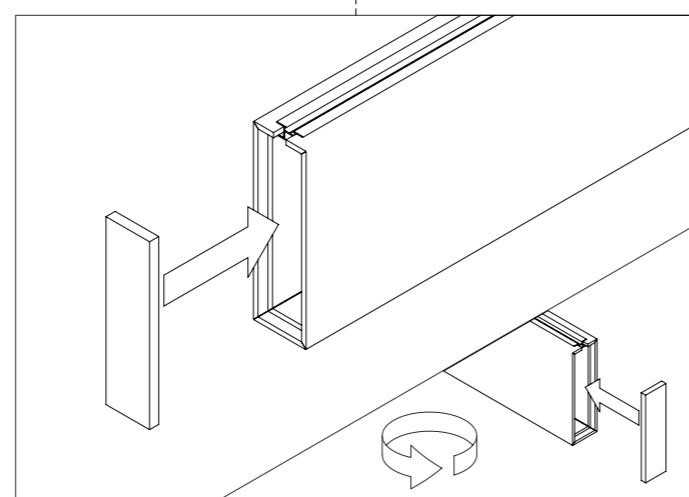
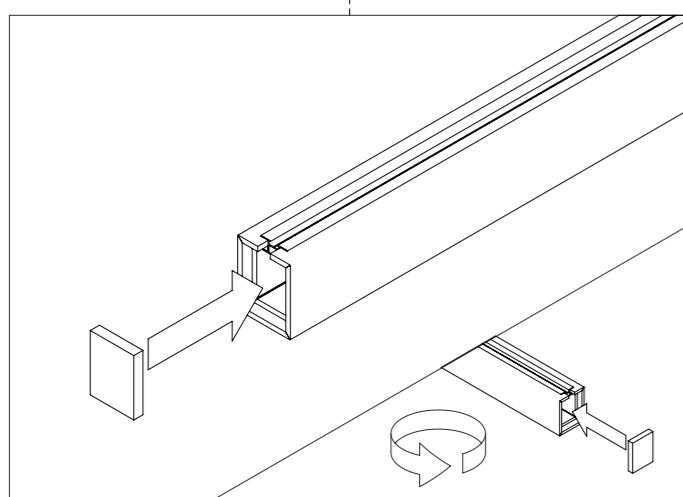
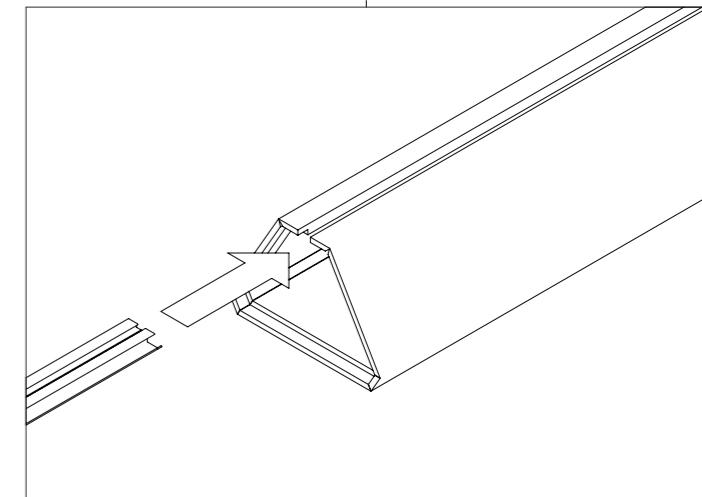
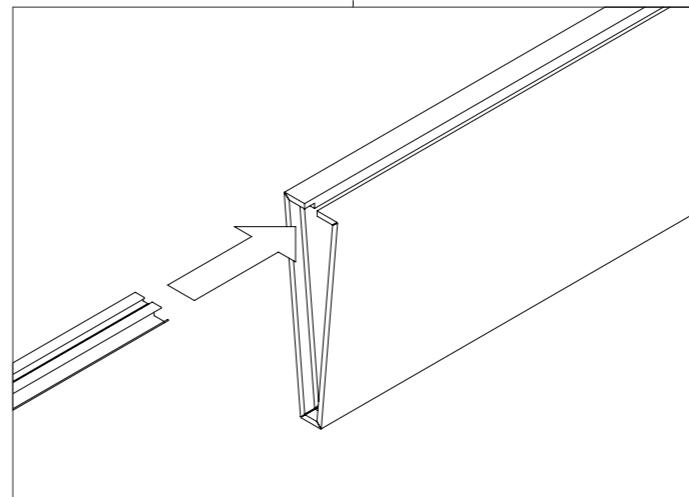
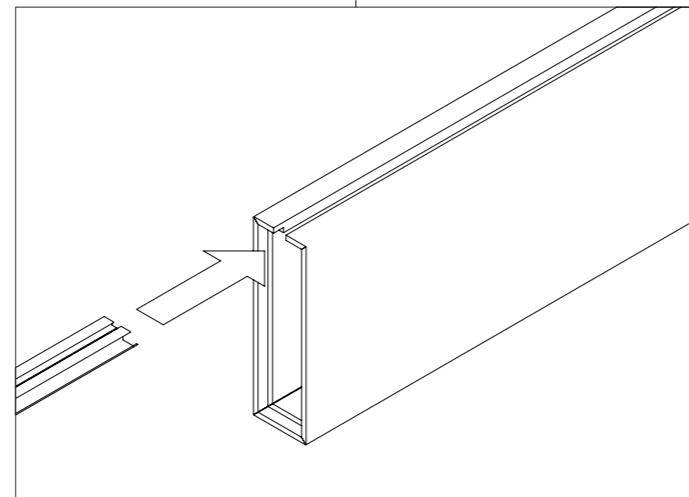
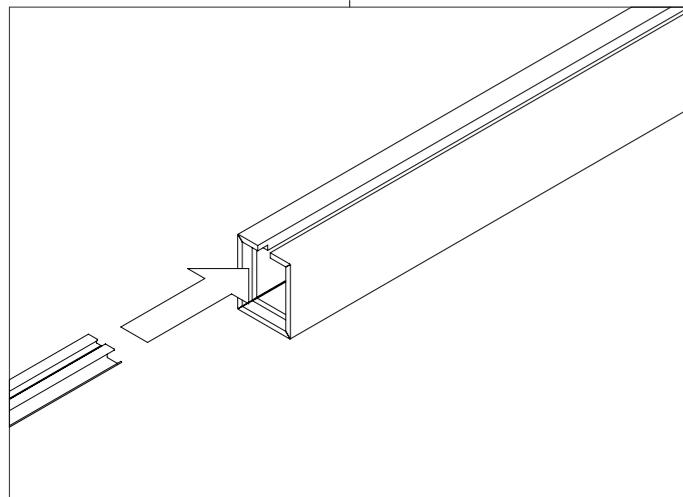
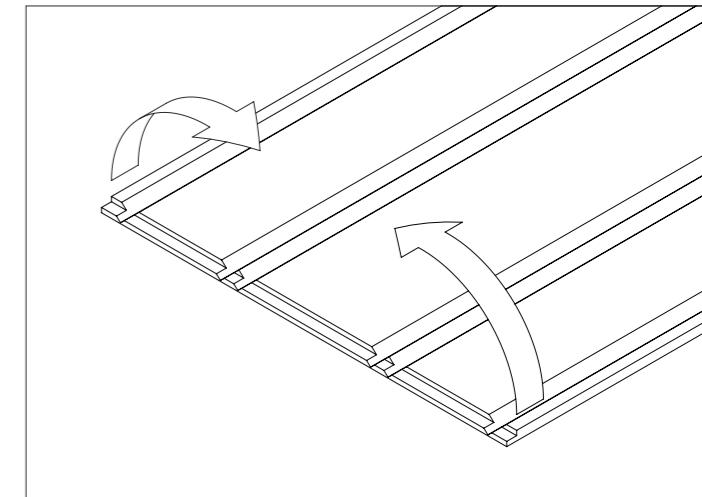
BEAM 250



BLADE

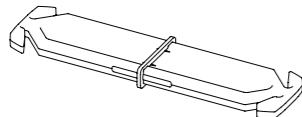


TRAPEZOID



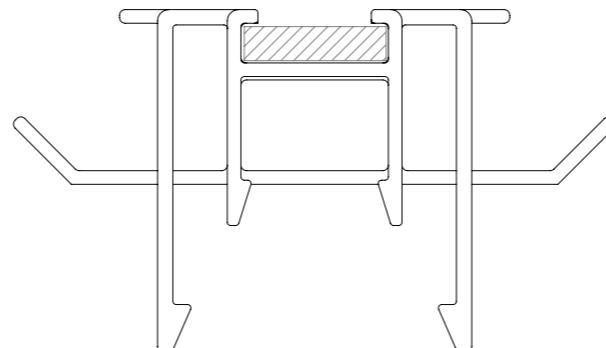


RAFCCT

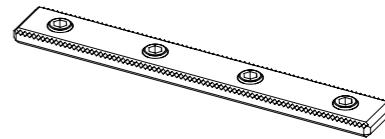


Light duty plastic connector used to join direct fixed rails.

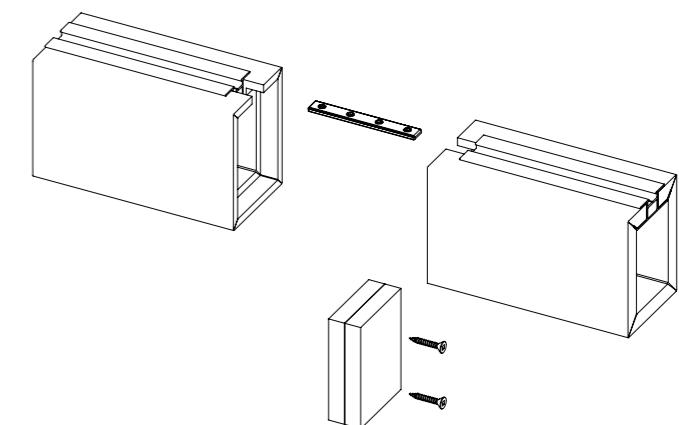
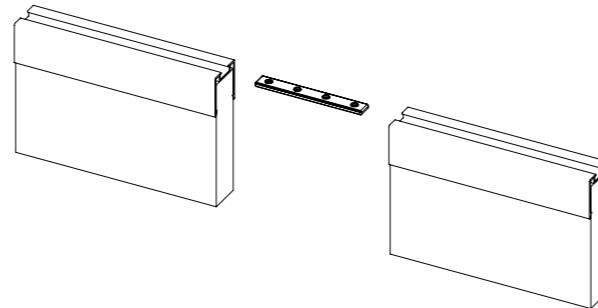
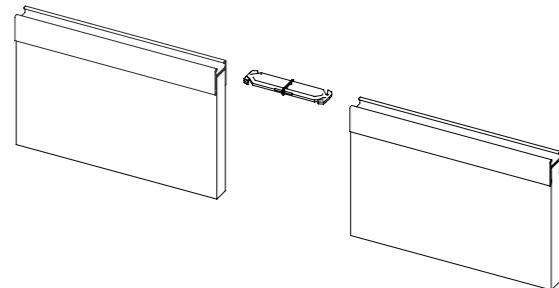
Both joiners are compatible with all extrusion sizes.



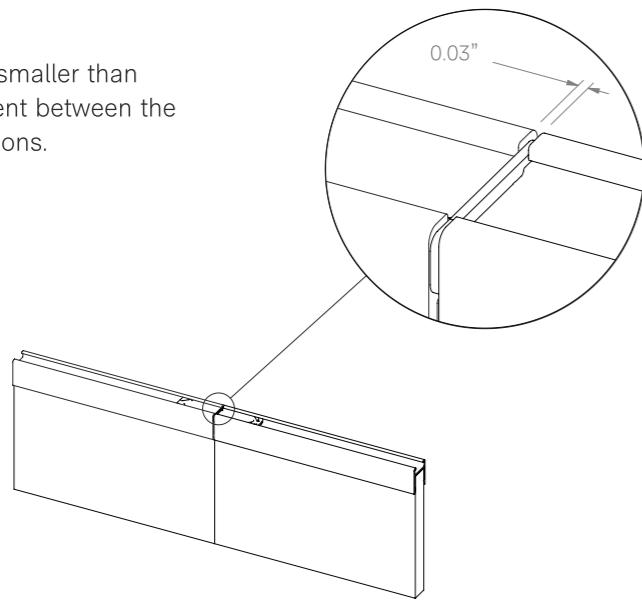
RAFHDCC



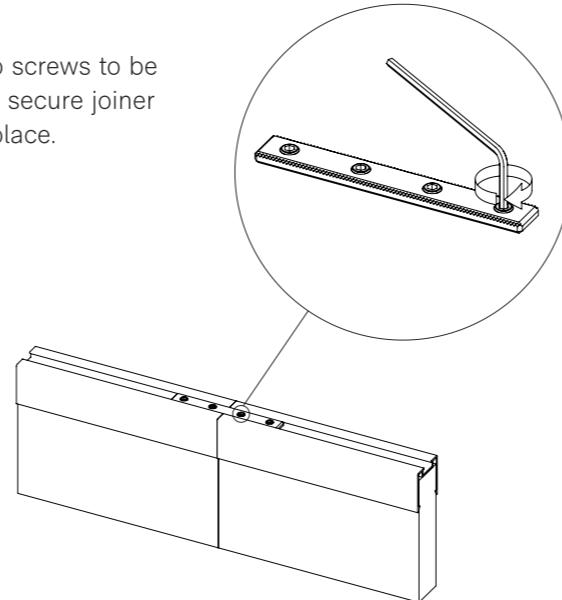
Heavy duty diecast connector with 4x grub screws used to join cross rails and/or suspended rails.



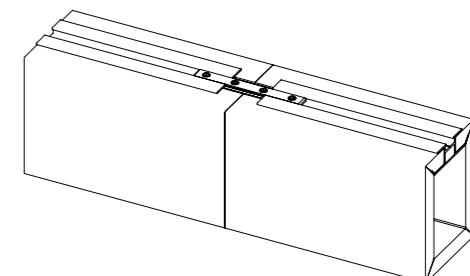
NOTE: A gap smaller than 1/16" will be present between the extrusions.

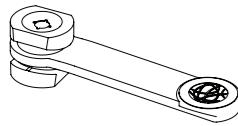


NOTE: Grub screws to be tightened to secure joiner in place.

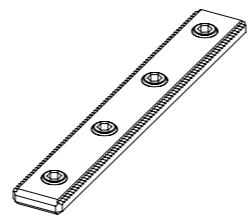


NOTE: In addition to joiner, screw the end caps together to create a cleaner joint.

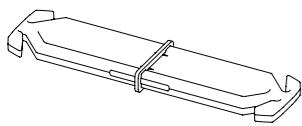




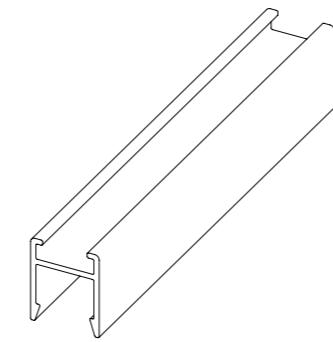
RAFTCC  
Autex Mounting Clip



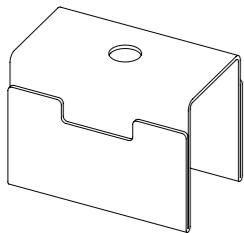
RAFDCC  
Autex Heavy Duty Frontier  
Channel Connector with  
4x M5 Grub Screws



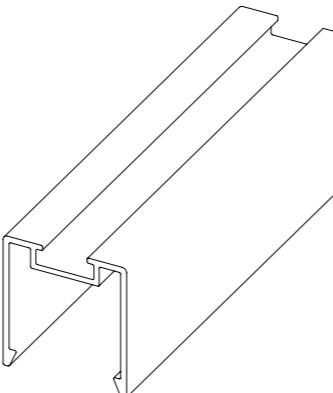
RAFCCT  
Autex Frontier Channel Connector



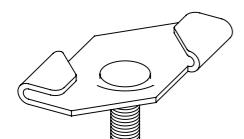
RAFNEX  
Frontier 3/8" Extrusion



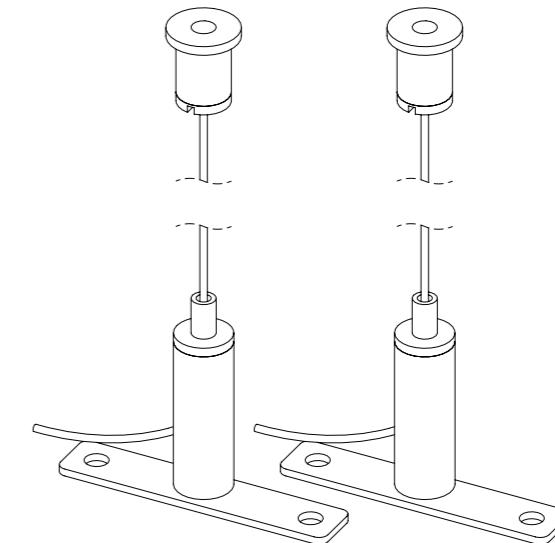
RAFWCP  
Autex Removable W-Clip



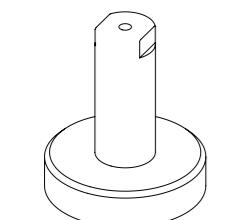
RAFNEX24  
Frontier 1" Extrusion



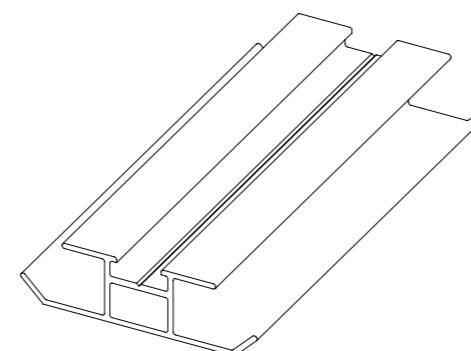
RAFM6GC  
1" Ceiling Grid Connector with  
M6 Thread



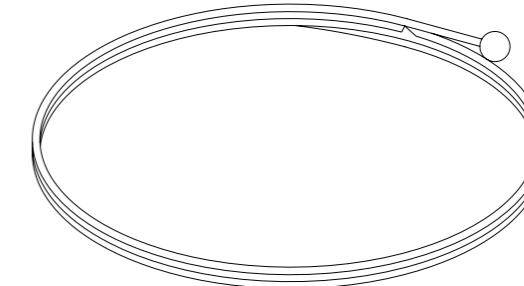
RAHVAS  
Autex Adjustable  
Suspension Set 78" cable -  
Channel Connection



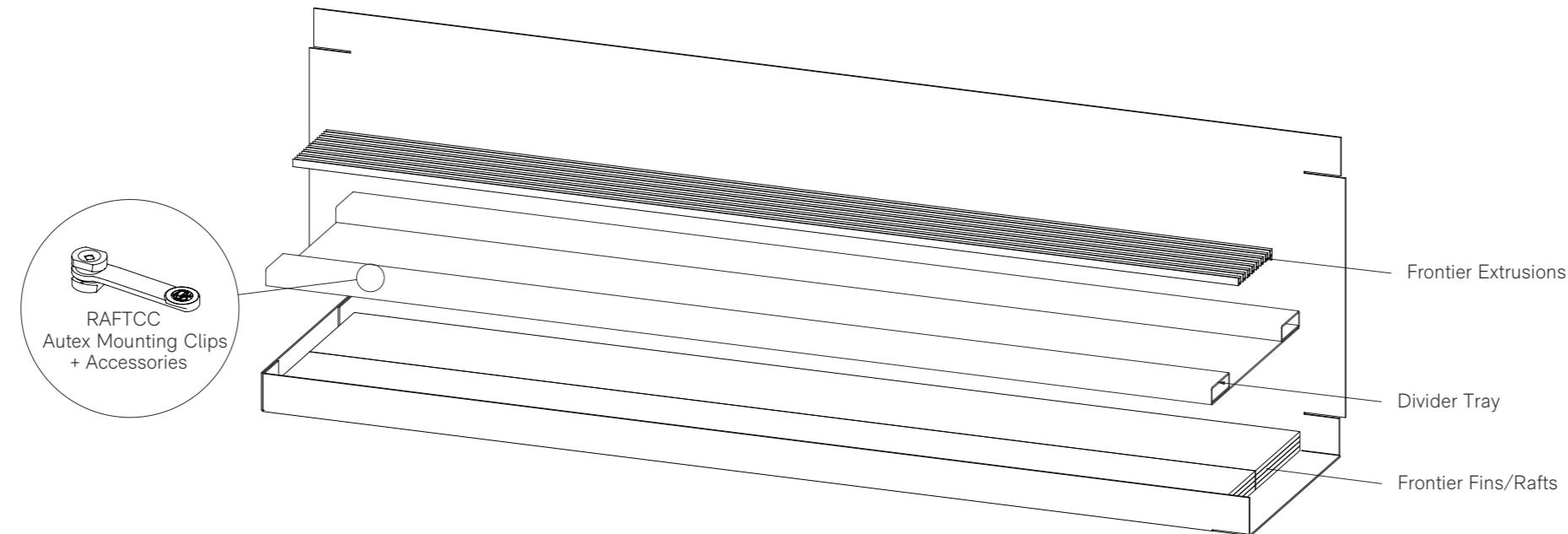
RAFM6MP  
Magnet Pot with M6 Thread and Cable  
Adaptor



RAFNEXRT  
Frontier Raft Extrusion



RAH3MBE  
118" Steel Cable with  
Ball End



STYLE	FIN LENGTH	FIN THICKNESS	FIN DEPTH**	FIN SPACING	FINS PER PACK	CHANNELS PER PACK	MOUNTING CLIPS	CONNECTOR TABS	AREA PER PACK (SQFT)
TUNDRA	108"	3/8"	4"	4"	24	24	48	24	72
	108"	3/8"	6"	6"	16	16	32	16	72
	108"	3/8"	8"	8"	12	12	24	12	72
	108"	3/8"	12"	12"	8	8	16	8	72
	108"	1"	4"	4"	12	12	24	12	36
	108"	1"	6"	6"	8	8	16	8	36
	108"	1"	8"	8"	6	6	12	6	36
	108"	1"	12"	12"	4	4	8	4	36
WAVE/DRAPE/ RIPPLE/GLIDE	108"	3/8"	12"	12"	8	8	16	8	72
	108"	1"	6"	6"	16	16	32	16	72

DUNE/SIERRA/TALUS	108"	3/8"	12"	12"	8	8	16	8	72
	108"	1"	12**	12"	4	4	8	4	36

AXIS	94 1/2"	1/2"	6"	12"	16	8	16	N/A	62
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RAFT STYLE	RAFT LENGTH	RAFT WIDTH	RAFT DEPTH**	RAFT SPACING	RAFTS PER PACK	CHANNELS PER PACK	MOUNTING CLIPS	CONNECTOR TABS	AREA PER PACK (SQFT)
BEAM 100	108"	2 3/4"	3 1/2"	6"	8	8	16	8	36
BEAM 250	108"	2 3/4"	8 7/8"	12"	4	4	8	4	36
BLADE	108"	2 3/4"	10 3/8"	12"	4	4	8	4	36
TRAPEZOID	108"	8 11/16 "	5 1/2"	12"	4	4	8	4	36

\*The Fin Depth of DUNE/SIERRA/TALUS fins vary but average out to 12"

\*\*Fin Depth/Raft Depth is inclusive of extrusion