



These installation instructions are designed to assist suitable experienced tradespeople to install Frontier™ to a high standard in common ceiling installations. For installation support, please contact your Momentum account manager before your start.

Manufacturer's Documents

Autex Acoustics® recommends that all persons engaged in the installation have full knowledge of the product and installation procedure as set out in the most recent edition of the manufacturer's instructions and related documents.

Manufacturer's documents relating to work in this section are:

- Frontier™ Fins Data Sheet
- Frontier™ Raft Data Sheet
- Autex Acoustics® Care and Maintenance Guide

Copies of literature are available on request or from the Momentum website.

Inspection

Before installing Frontier check that the materials have been supplied as ordered and are free from damage or faults. Check product labels to ensure product has been supplied correctly.

It is important to check that all boxes are supplied from one batch. Due to batch to batch variations, we do not recommend installing different batch lots as this could result in color variation.

Any variations must be reported to Autex Acoustics prior to commencing the installation. No claims will be accepted where the job continues with obvious faults, and no consultation with Autex Acoustics has taken place.

Transportation, Storage, and Handling

Frontier must be transported, stored, and handled with care. Avoid delamination or distortion and protect edges from being crushed.

Do not accept damaged fins. If product arrives damaged, note the condition on the freight documents and contact

Autex Acoustics immediately. Goods signed as received in 'good condition' will not be the responsibility of Autex Acoustics. Always transport and store Frontier on a flat, clean, dry surface. Do not lay the fins on their sides or crush as this will cause creases in the finish.

The use of Personal Protection Equipment is not required to handle Frontier, though care must be taken to keep the job clean, and the use of cotton gloves is recommended.

Site Preparation

The site conditions at time of installation should be clear of dust, debris, and foreign particles. Installation should only commence once the building is fully clad, water-tight, dry, and all wet processes have been completed.

Service

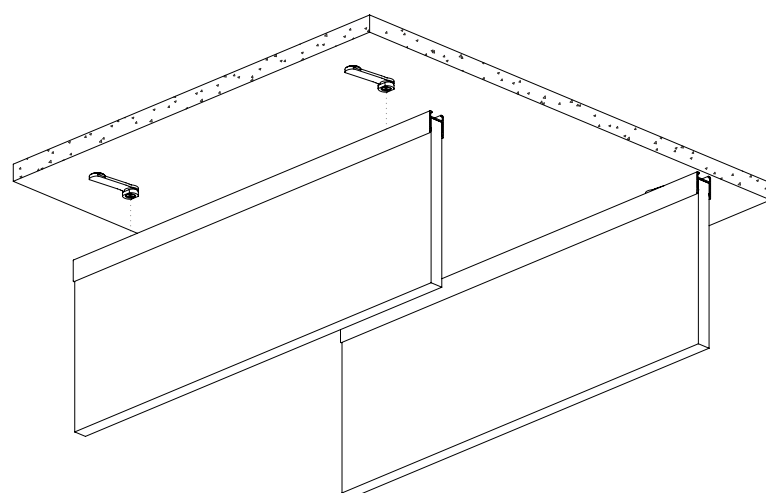
For more information, contact your Momentum account manager or visit momentumco.com



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

1. DIRECT FIXED TO CEILING

SEE PAGE 2

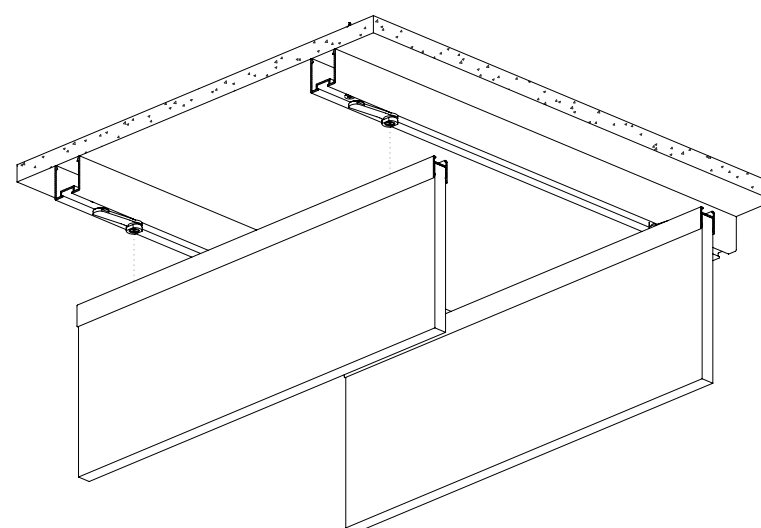


PACK INCLUDES
Autex Mounting Clips
Autex Frontier Extrusions
Autex Frontier Fins/Rafts

NOT SUPPLIED
Fasteners (to substrate)

2. DIRECT FIXED TO RAILS

SEE PAGE 3



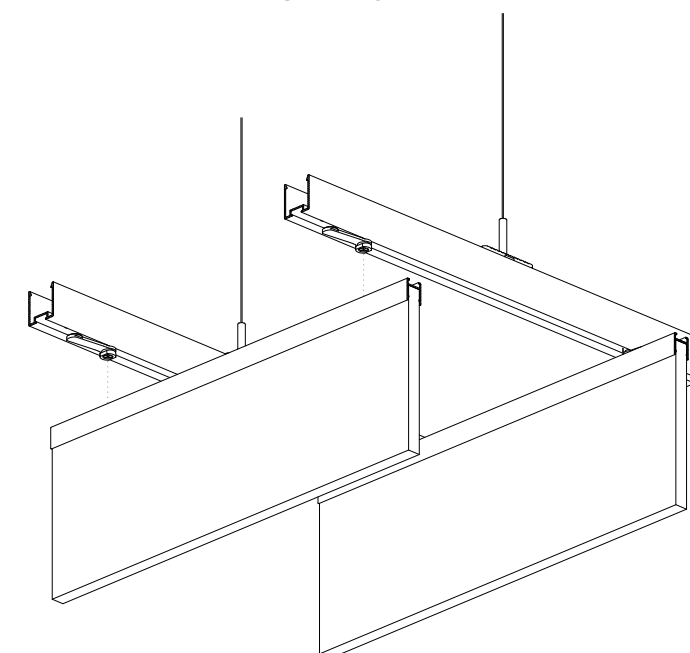
PACK INCLUDES
Autex Mounting Clips
Autex Frontier Extrusions
Autex Frontier Fins/Rafts

ADDITIONAL COMPONENTS REQUIRED
Autex Frontier Cross Rails x2

NOT SUPPLIED
Fasteners (to substrate)

3. SUSPENDED RAILS

SEE PAGE 4

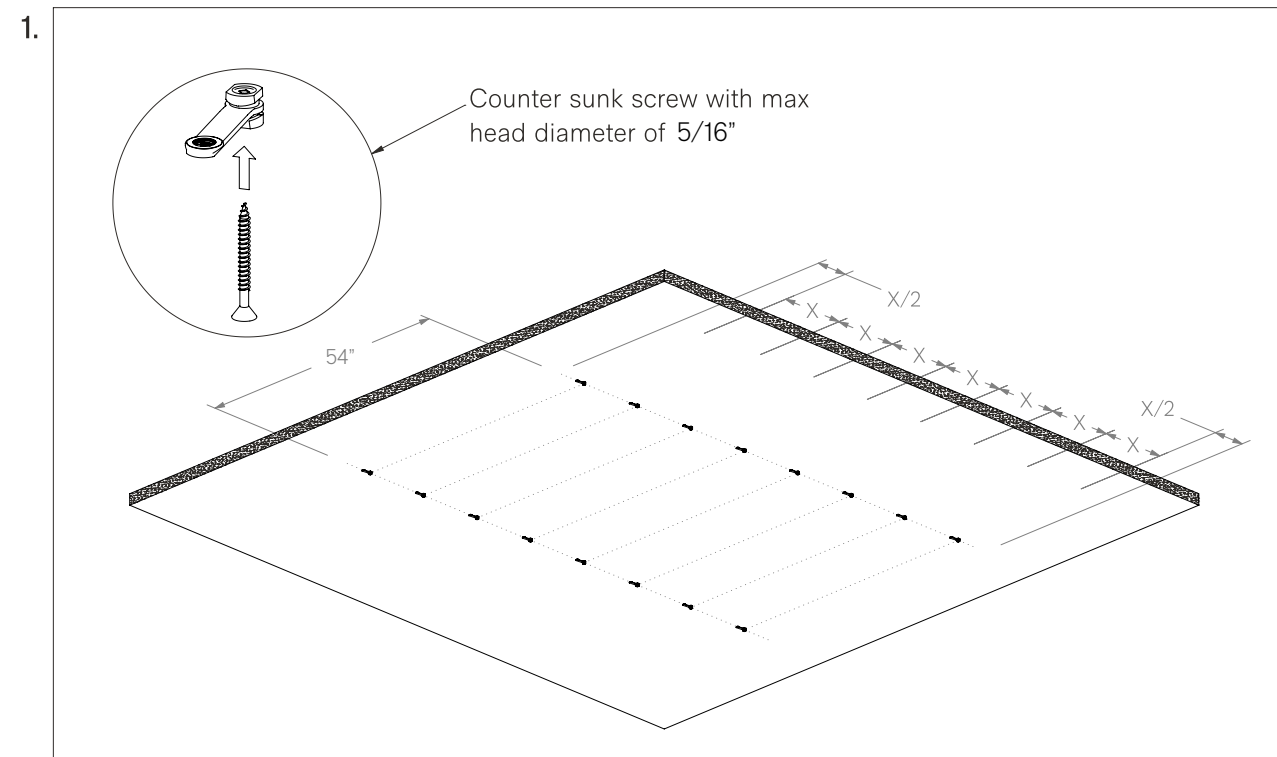


PACK INCLUDES
Autex Mounting Clips
Autex Frontier Extrusions
Autex Frontier Fins/Rafts

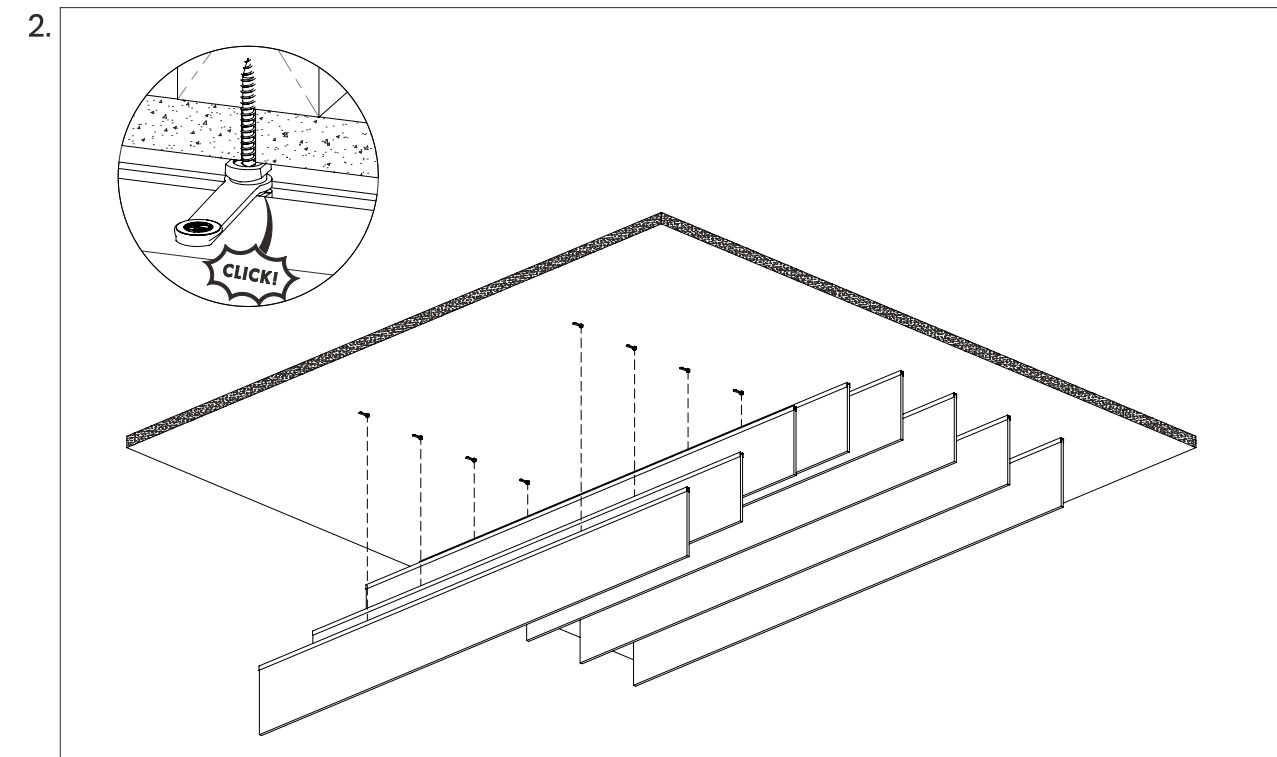
ADDITIONAL COMPONENTS REQUIRED
Autex Frontier Cross Rails x2
Autex W-Clips
Autex Wire Suspension Kits

NOT SUPPLIED
Fasteners (to substrate)
Threaded Rod

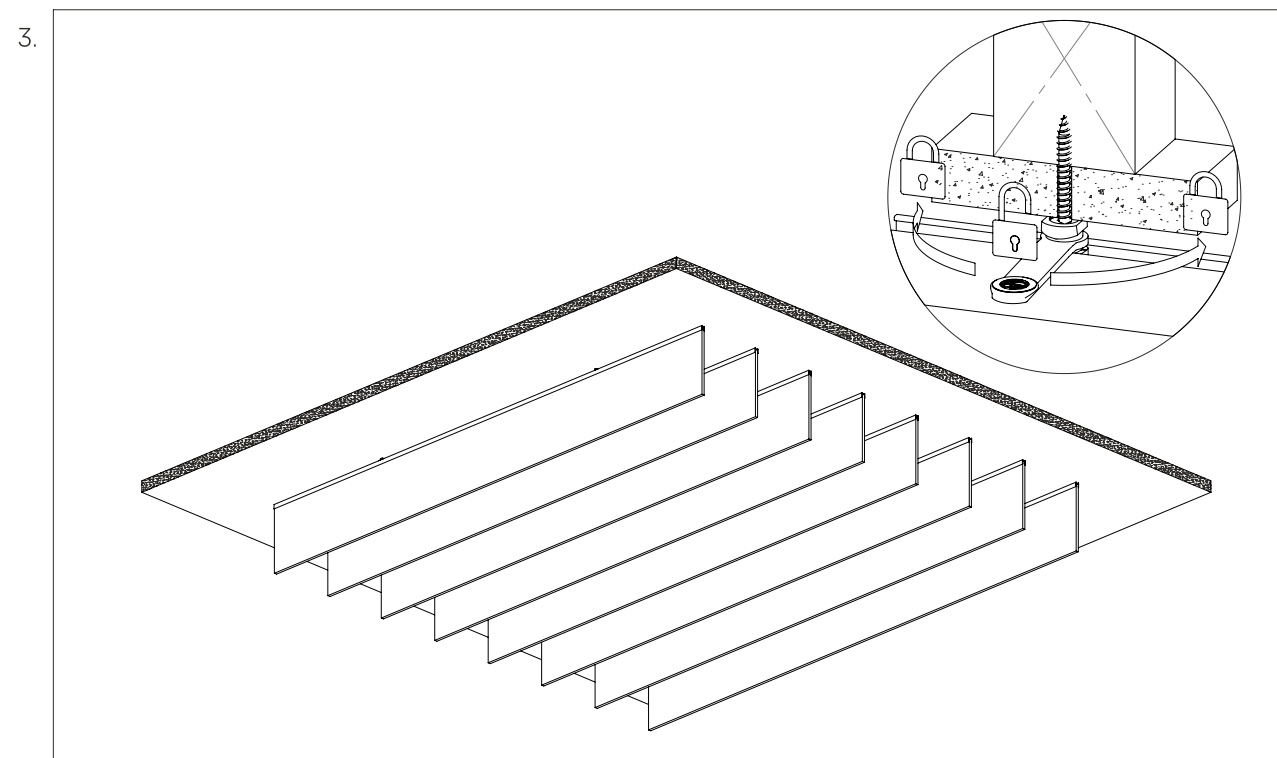
For suspended installations it is strongly recommended to consult a building engineer for seismic considerations. See page 8 for suggested details.
For all installations in sprinklered buildings, consult a fire engineer to ensure the intended position of the Frontier Fins/Rafts meet sprinkler and alarm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



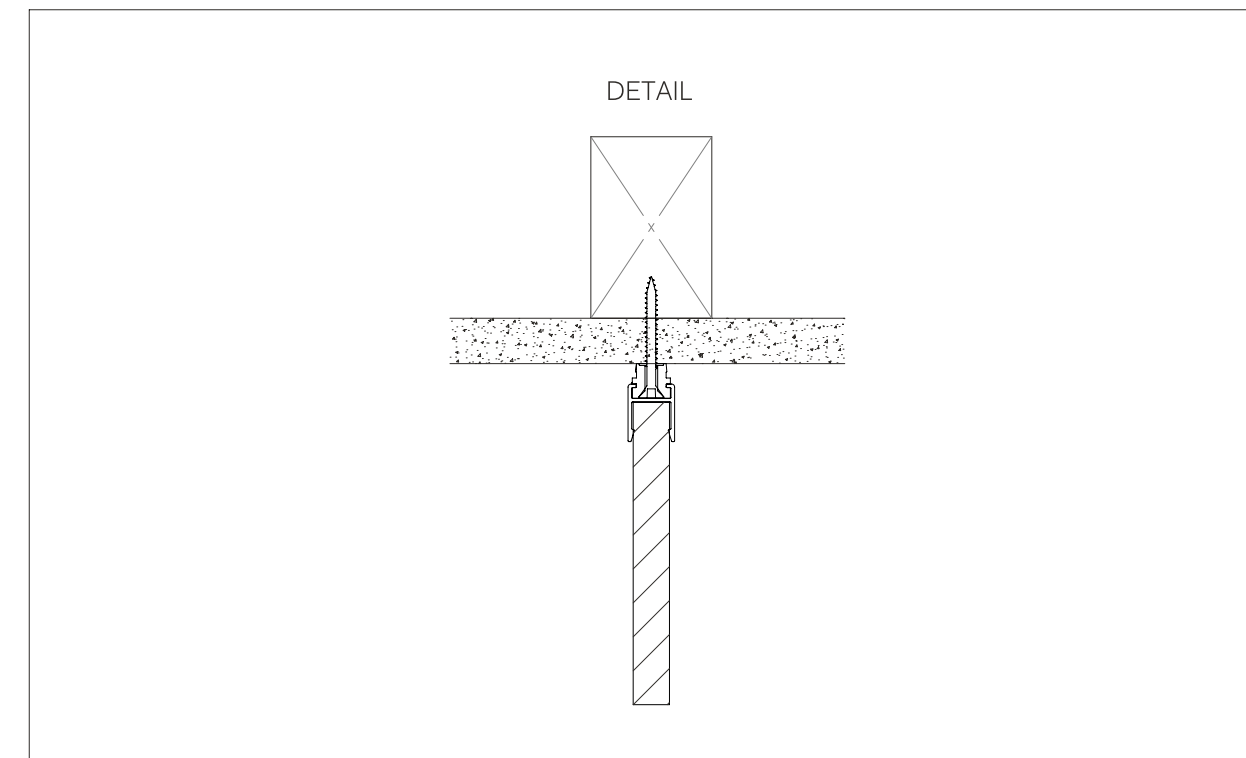
Mark out your ceiling at the recommended spacing for your chosen product (refer to table on page 25 for details). Screw the Autex Mounting Clips into the ceiling using screws suitable for the substrate (not supplied).



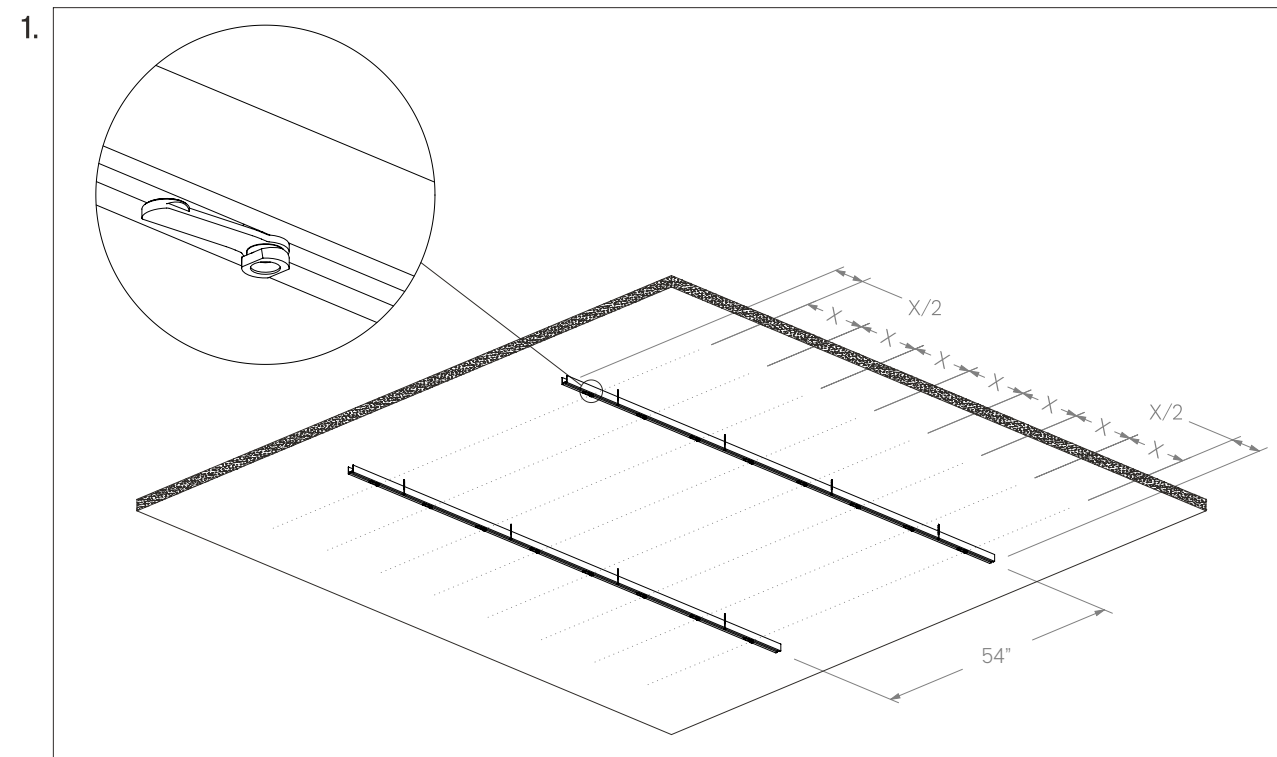
Lift the assembled Fins/Rafts into place and click them onto the Autex Mounting Clips. Turn the clips 45° to temporarily hold the Fin/Raft in place while allowing adjustment along the length.



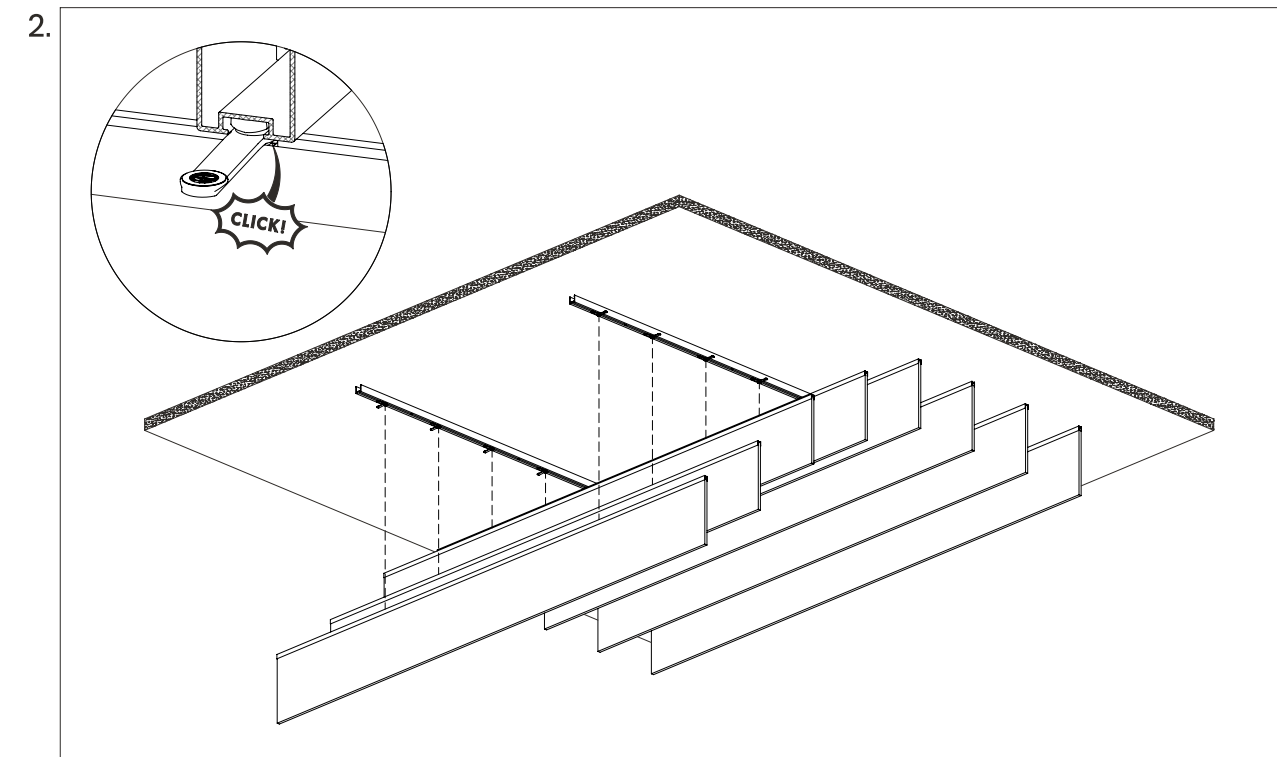
When you are satisfied with the alignment of the Fins/Rafts turn the clips 90° so they clip into the channel and lock in place.



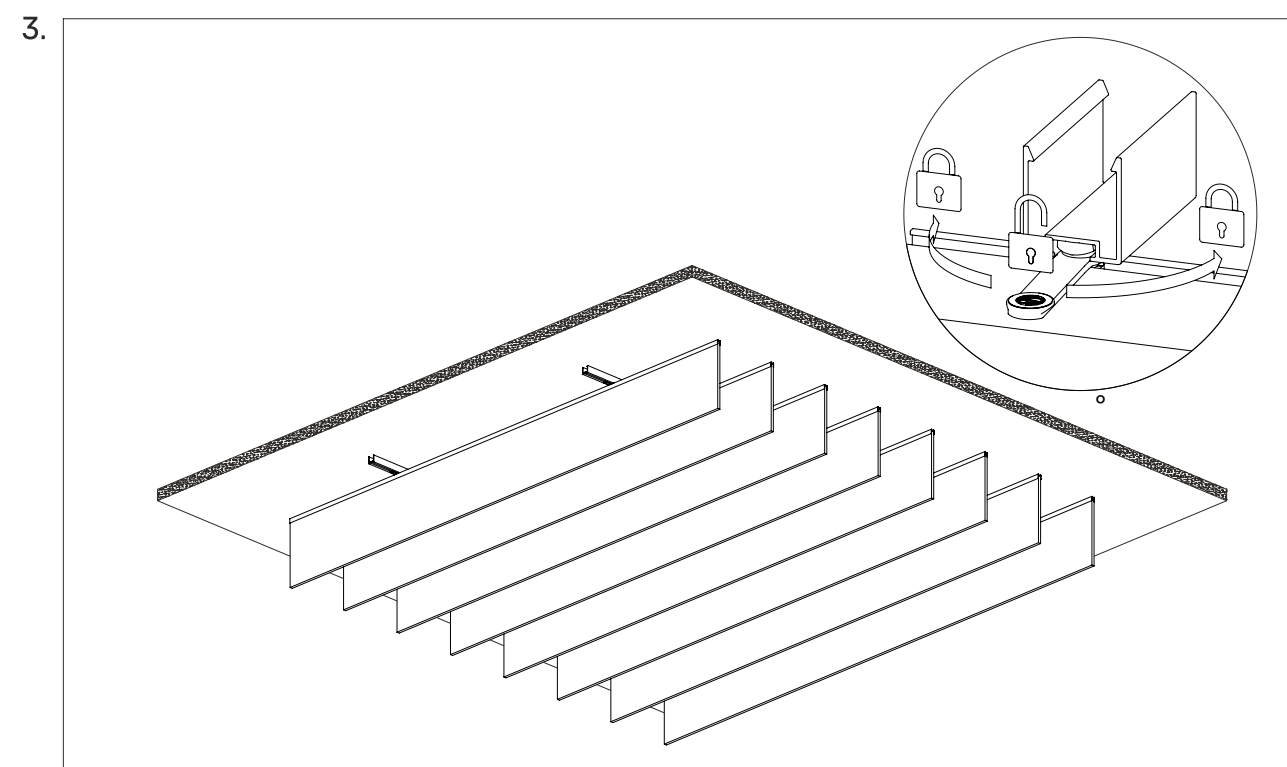
Ensure suitable fastener for the clip and substrate is used (not supplied).



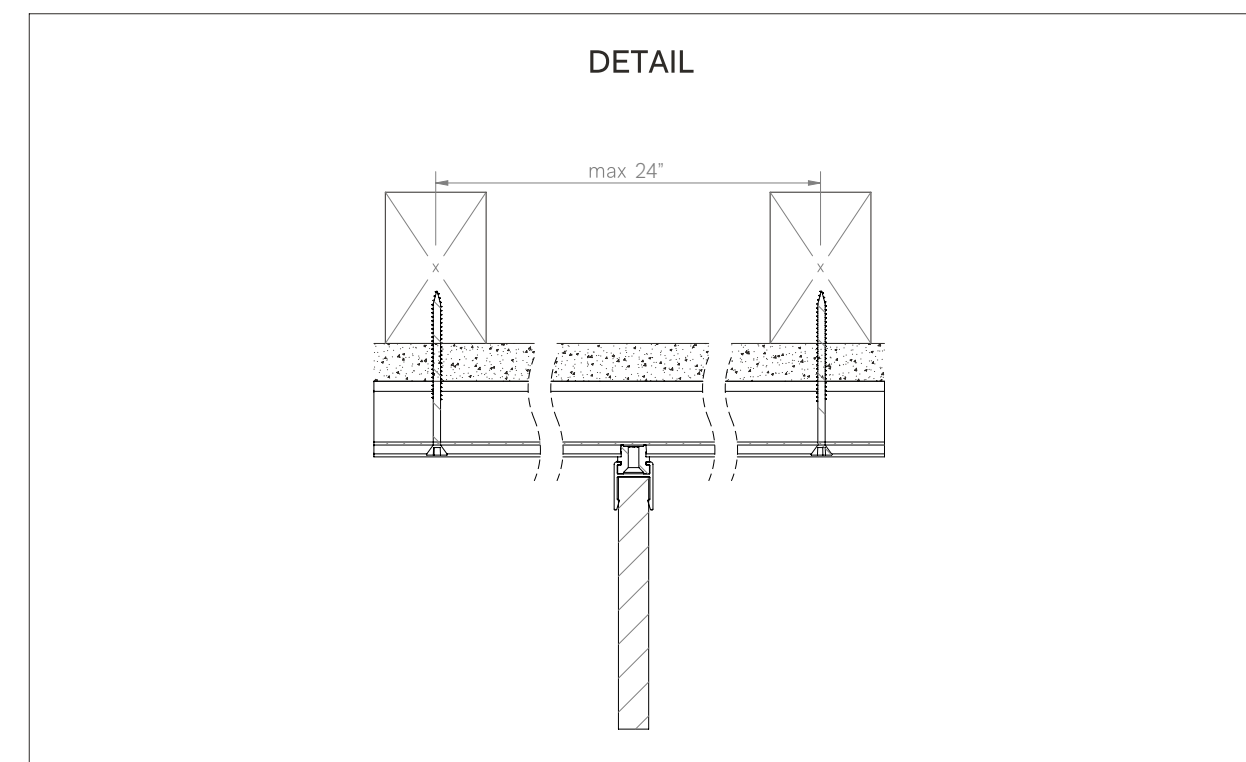
Mark out the ceiling and screw in 2x cross rails at 54" centers using screws suitable for the substrate (not supplied) at max centers of 24". Insert the Autex Mounting Clips at the desired fin spacing. Fin spacing can be marked on the cross rails prior to installation. (Refer to table on page 25 for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

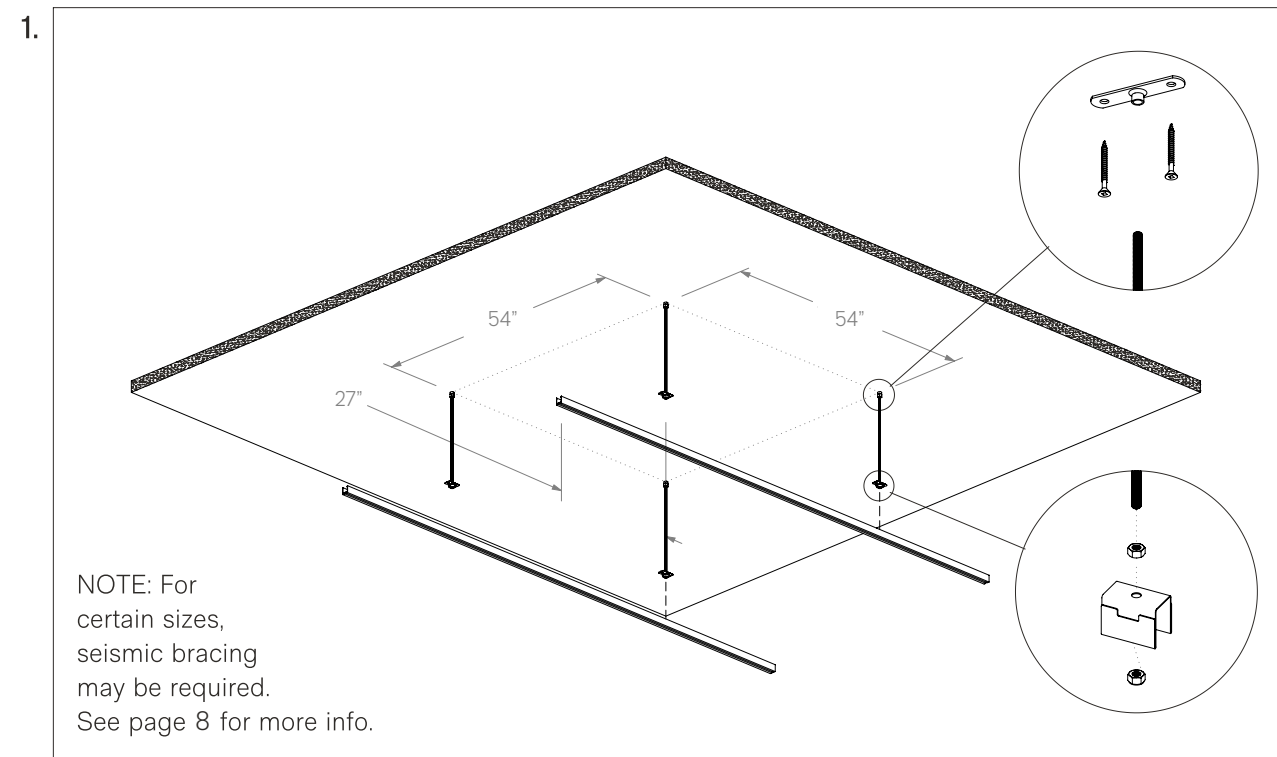


Ensure suitable fastener for the clip, rail and substrate is used. For additional security, the Autex Mounting Clips can be screwed into the cross rail.

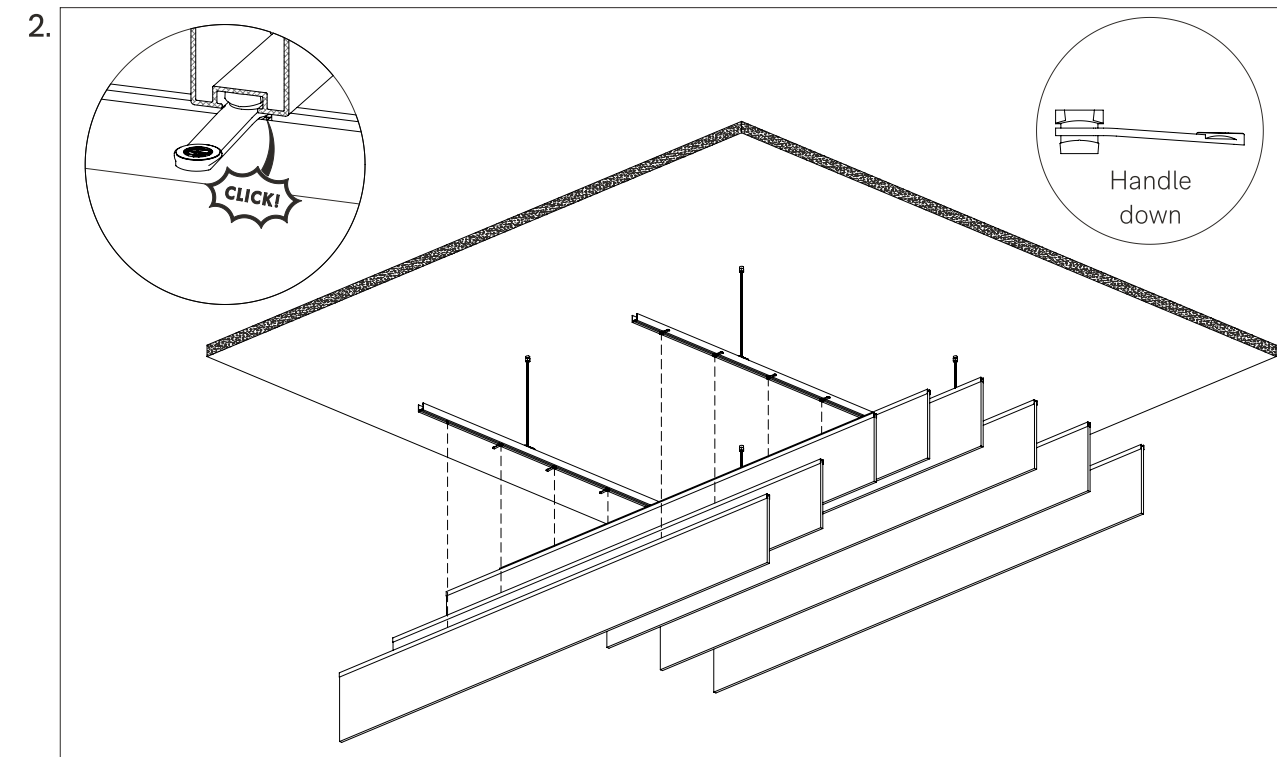


Frontier™ Install Instructions

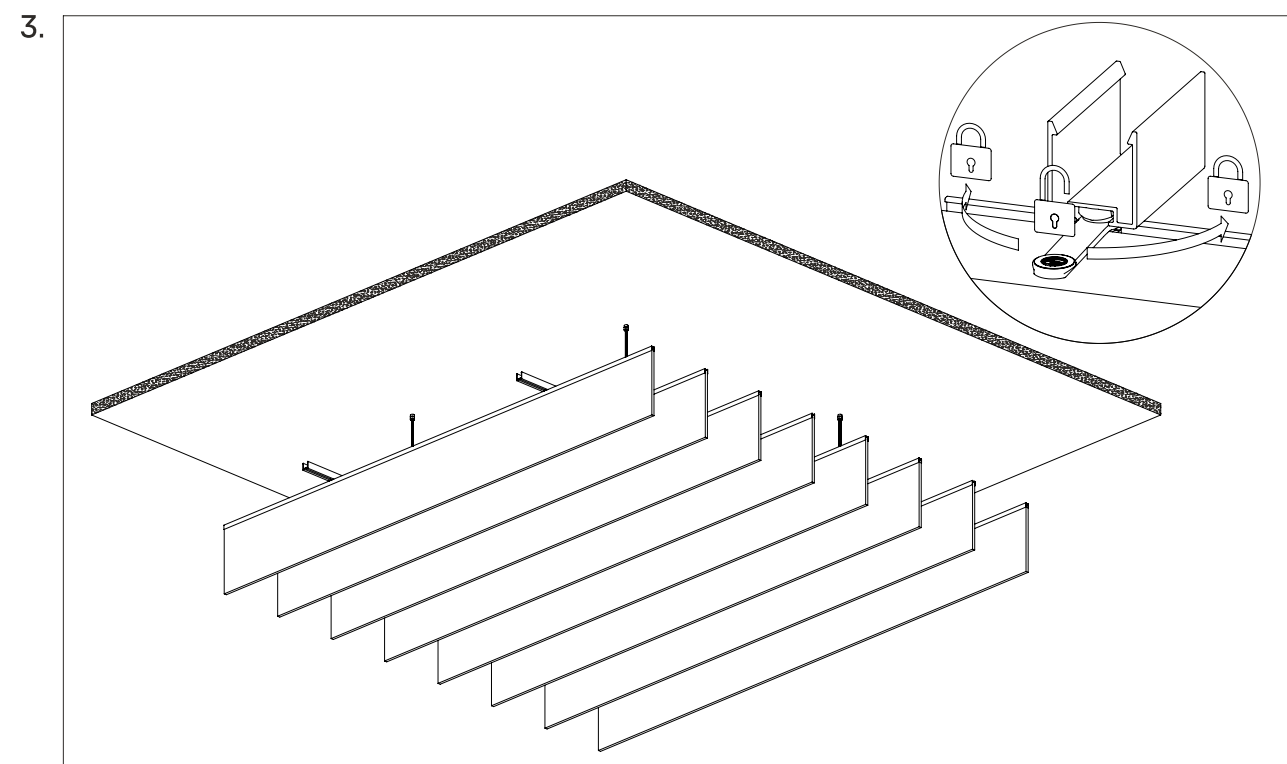
Suspended from Ceiling



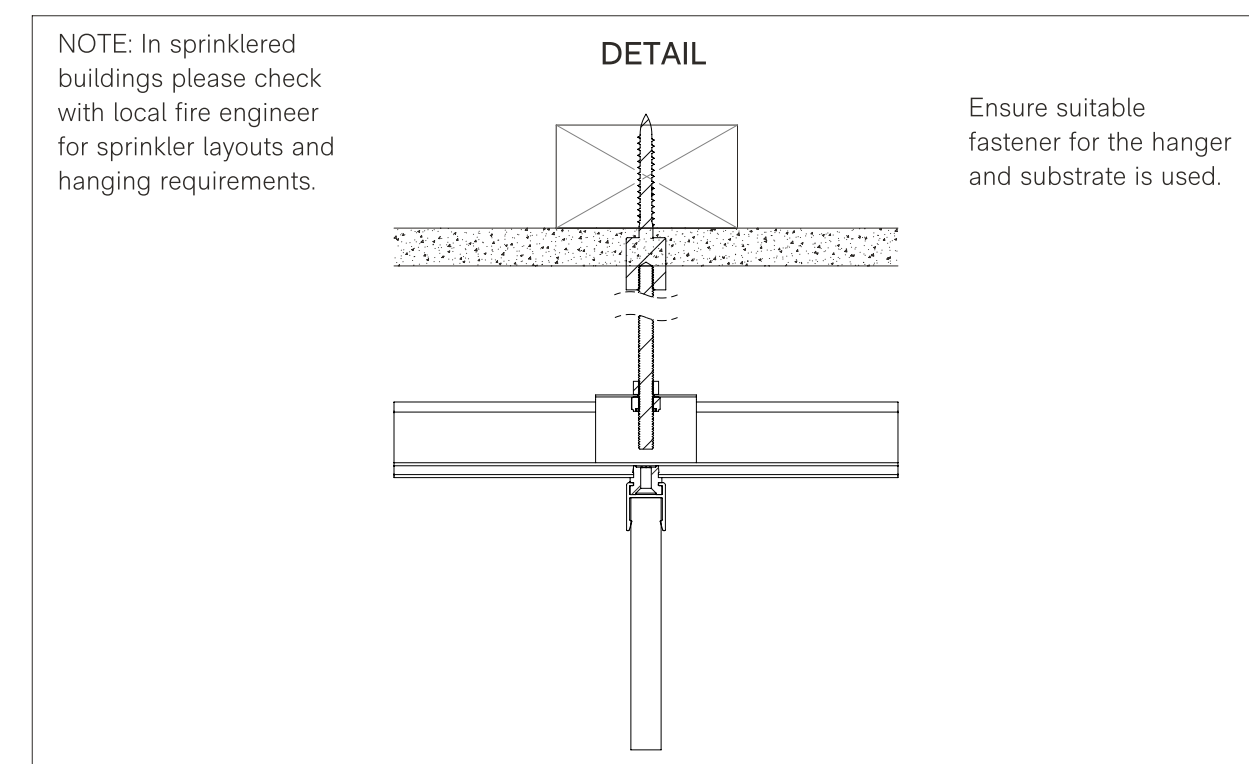
Mark out the ceiling and screw in 4x backing plates suitable for 15/64" threaded rod in a 54" x 54" square using screws suitable for the substrate (not supplied). Fin spacing can be marked on the cross rails prior to being clipped onto the Removable W-Clips. (Refer to table on page 25 for details).



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.



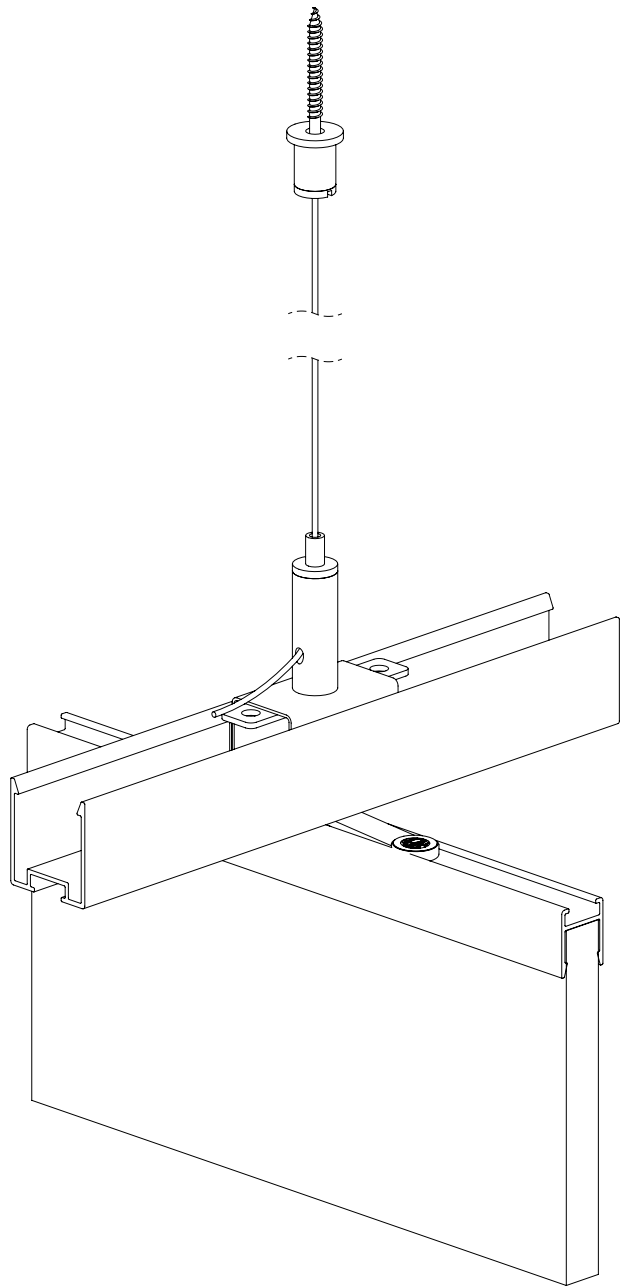
When you are satisfied with the alignment of the Fins/Rafts turn the clips 90° so they clip into the channel and lock in place.



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.



Suggested Ceiling Fixing Detail		
Substrate	Fixing	Minimum Embedment
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"

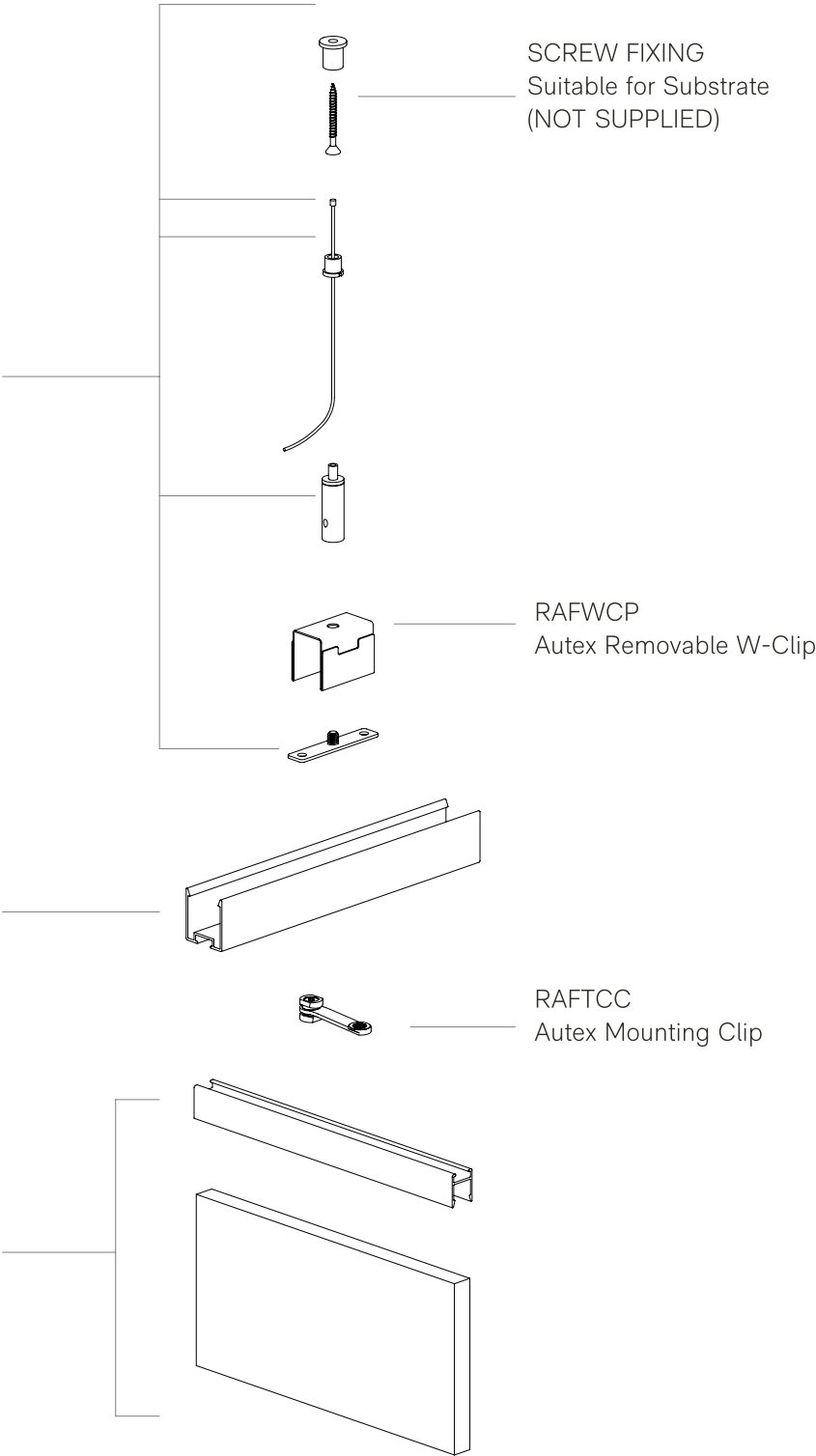


NOTE: This suspension method is suitable for small installations only.
For larger installations refer to pages 7-8

RAHVAS
Autex Adjustable
Suspension Set - Channel

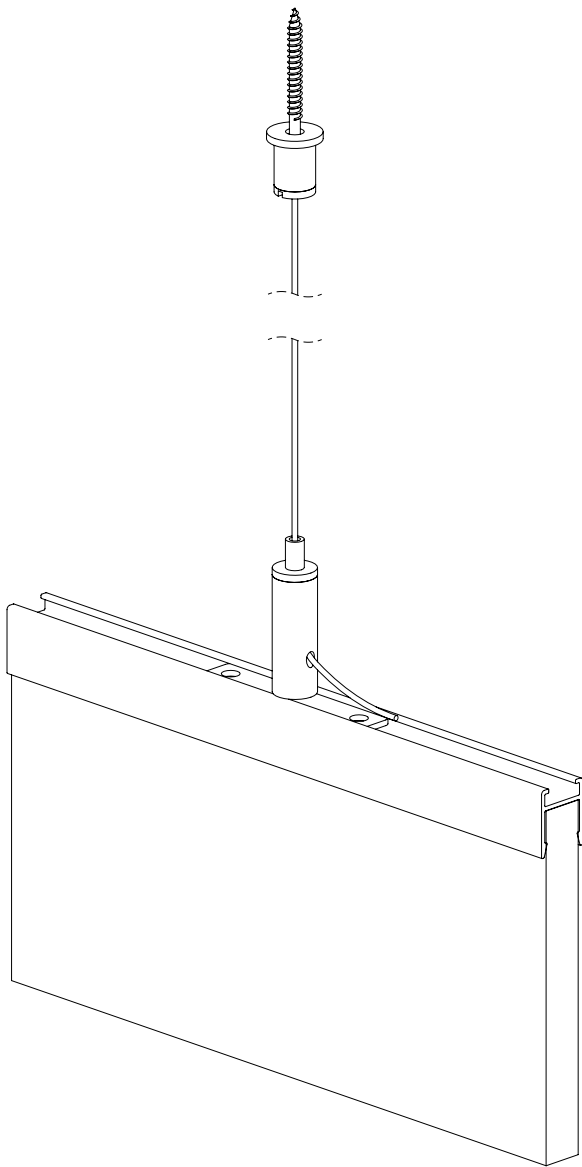
RAFEX24
Autex Frontier 1" Extrusion

RAFEX
Autex Frontier 3/8" Extrusion + Fin
- or -
RAFEX
Autex Frontier 1/2" Extrusion + Fin
- or -
RAFEX24
Autex Frontier 1" Extrusion + Fin
- or -
RAFEXRT
Autex Frontier Raft Extrusion + Raft





Suggested Ceiling Fixing Detail		
Substrate	Fixing	Minimum Embedment
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

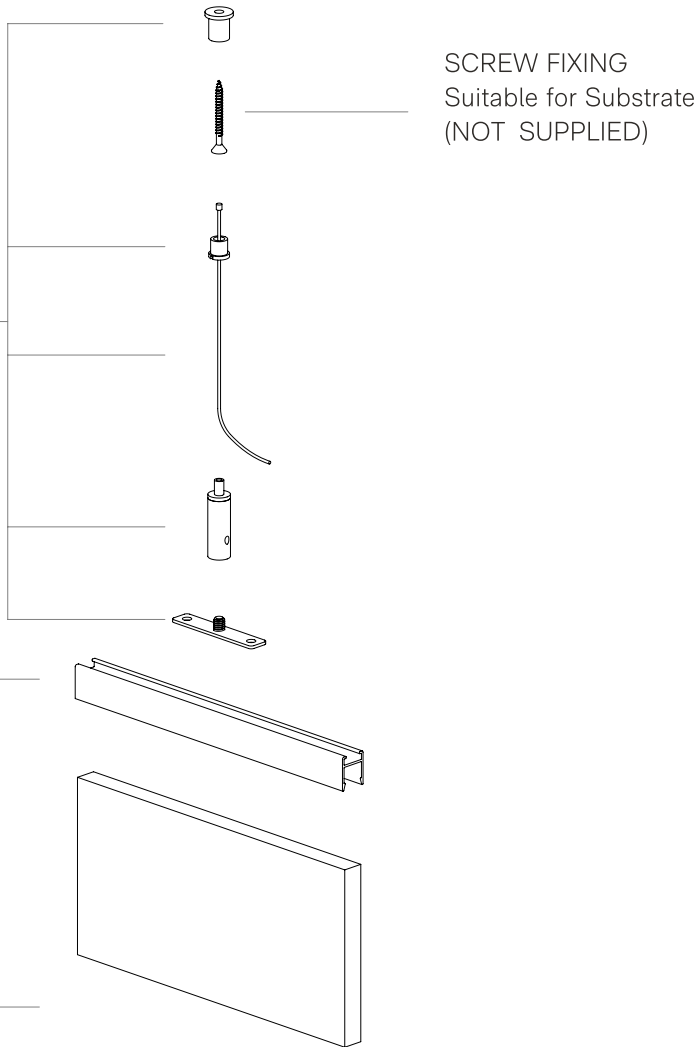
RAHVAS
Autex Adjustable
Suspension Set - Channel

RAFLEX
Autex Frontier 3/8" Extrusion + Fin
- or -

RAFLEX
Autex Frontier 1/2" Extrusion + Fin
- or -

RAFLEX24
Autex Frontier 1" Extrusion + Fin
- or -

RAFLEXRT
Autex Frontier Raft Extrusion + Raft



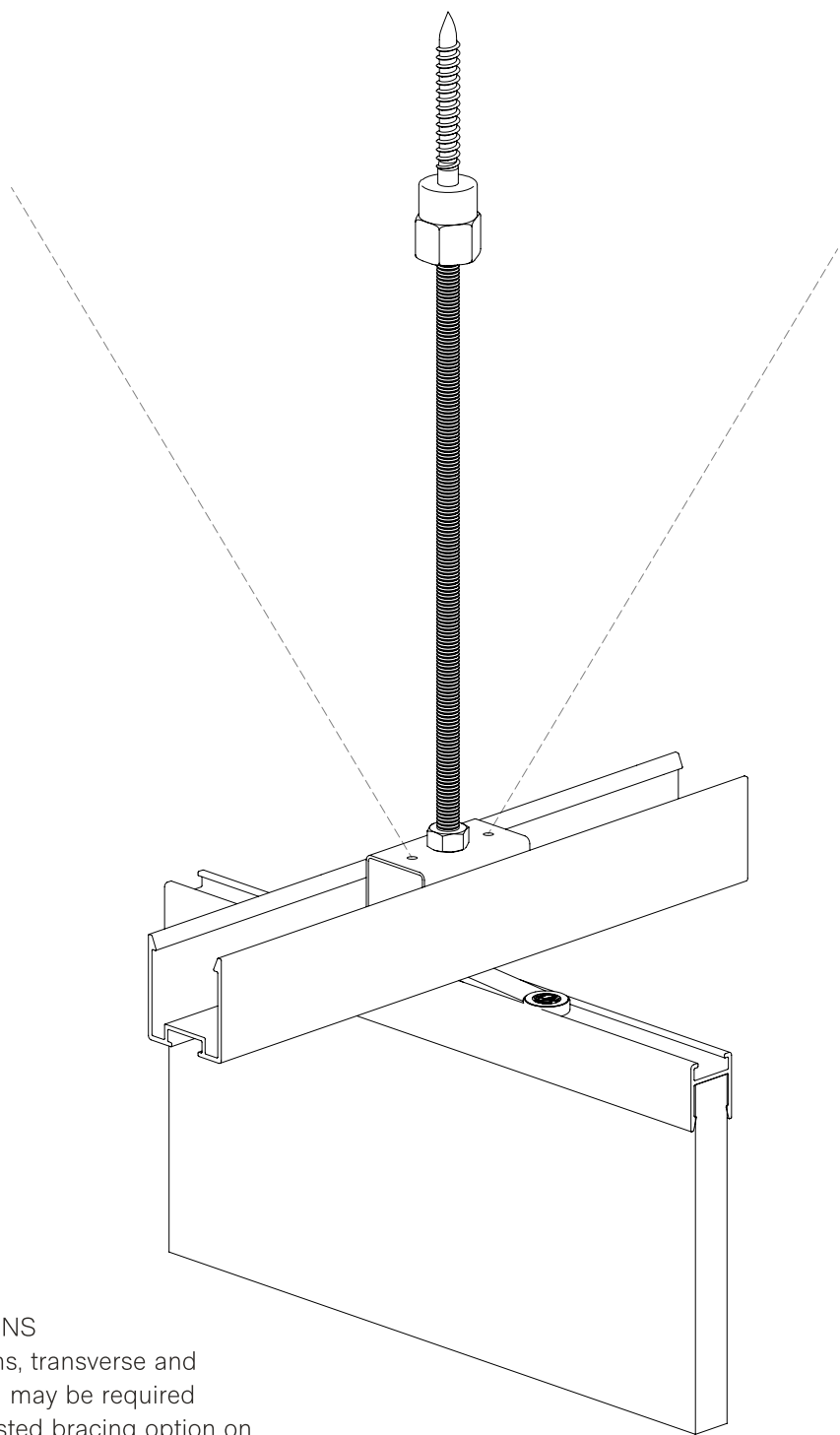
SCREW FIXING
Suitable for Substrate
(NOT SUPPLIED)



Frontier™ Install Instructions

Threaded Rod Suspension

Suggested Ceiling Fixing Detail		
Substrate	Fixing	Minimum Embedment
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.

M6 BACK PLATE
(NOT SUPPLIED)

M6 THREADED ROD
(NOT SUPPLIED)

RAFWCP
Autex Removable W-Clip

RAFEX24
Autex Frontier 1" Extrusion

RAFEX
Autex Frontier 3/8" Extrusion + Fin
- or -

RAFEX
Autex Frontier 1/2" Extrusion + Fin
- or -

RAFEX24
Autex Frontier 1" Extrusion + Fin
- or -

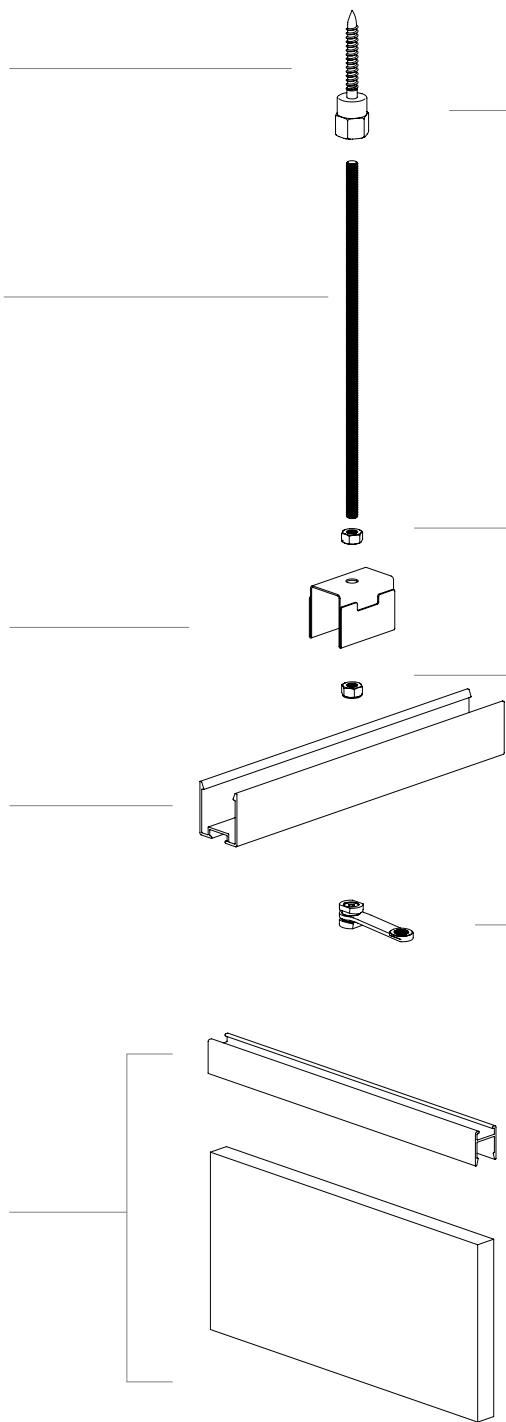
RAFEXRT
Autex Frontier Raft Extrusion + Raft

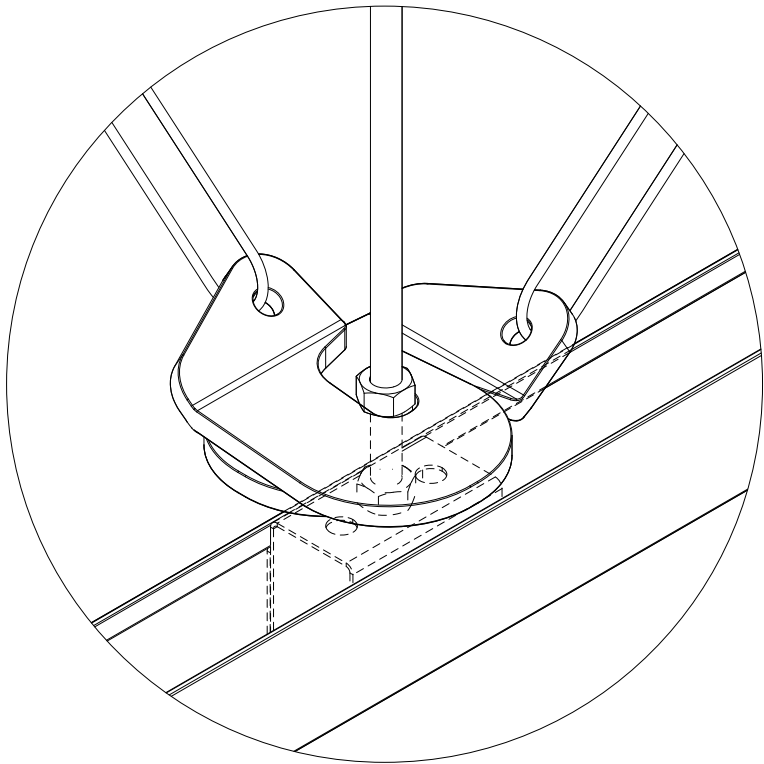
SCREW FIXINGS
Suitable for Substrate
(NOT SUPPLIED)

M6 NUT
(NOT SUPPLIED)

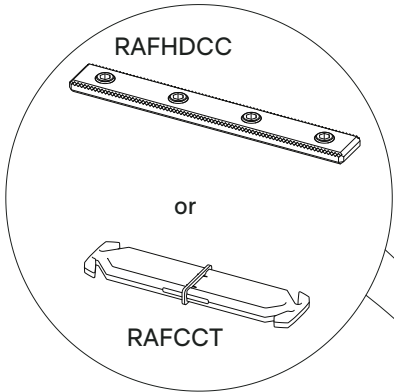
M6 NYLOC NUT
(NOT SUPPLIED)

RAFTCC
Autex Mounting Clip

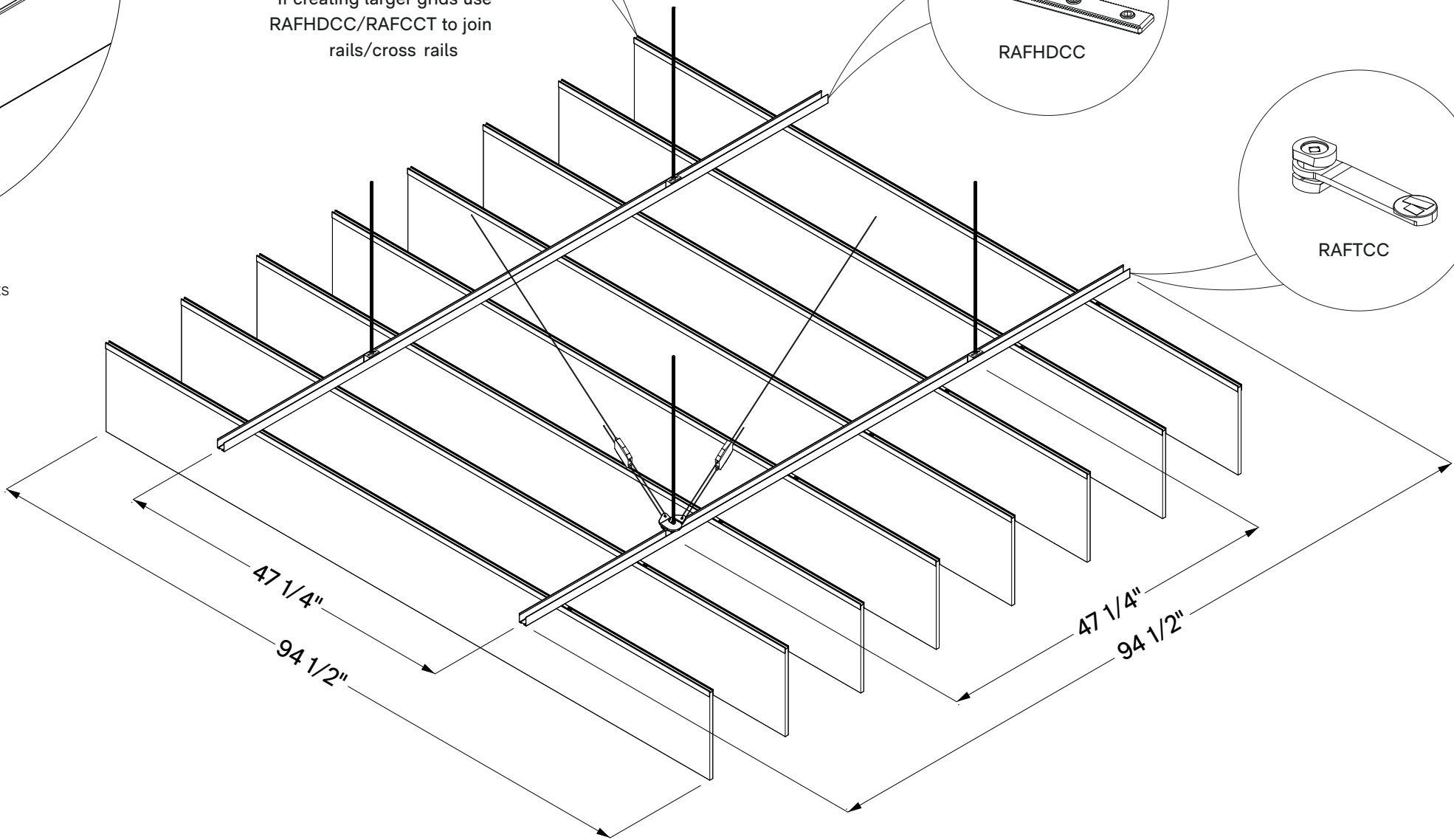
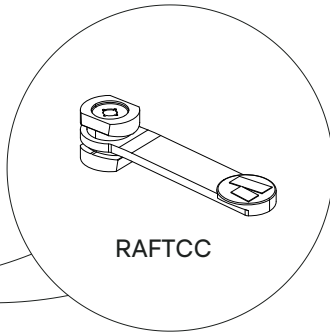
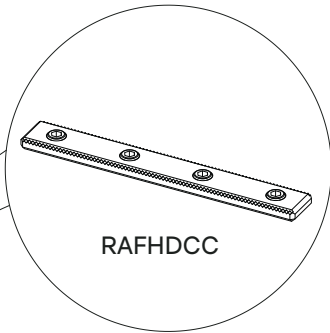




Autex W-Clip with seismic bracing & hooks
(NOT SUPPLIED BY AUTEX)

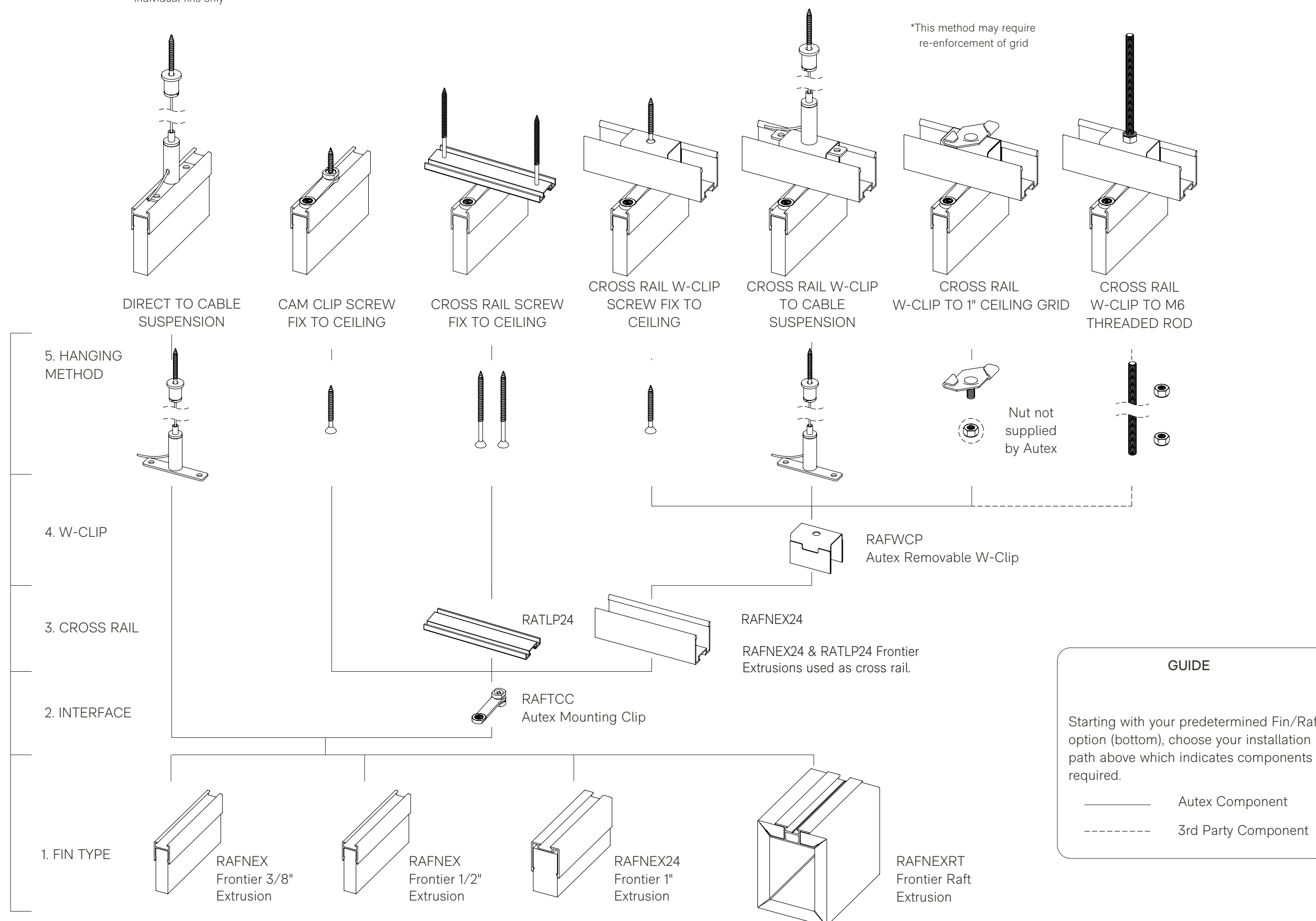


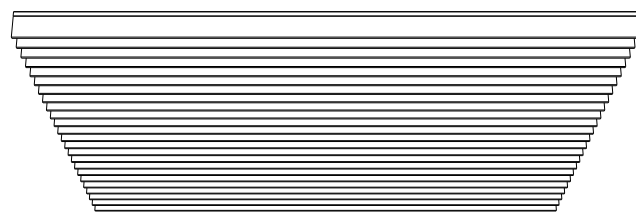
If creating larger grids use
RAFHDCC/RAFCCT to join
rails/cross rails



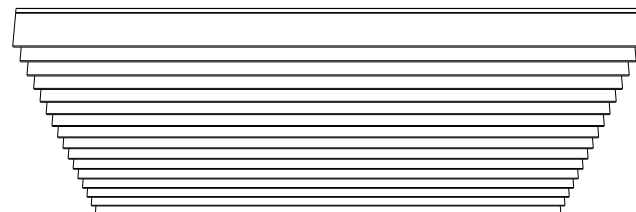


*This method is suitable for individual fins only

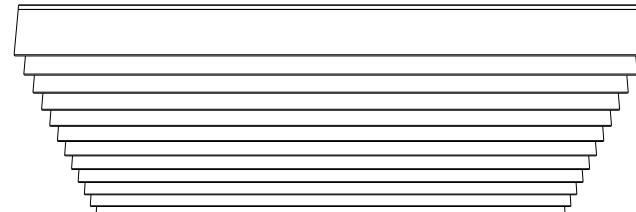




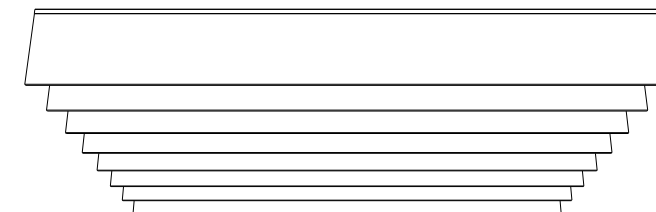
TUNDRA 4"



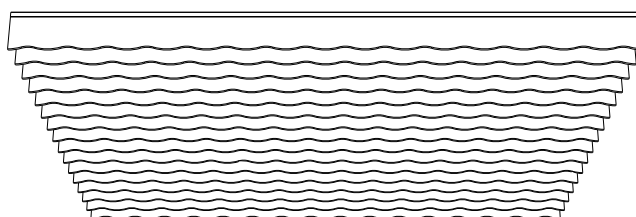
TUNDRA 6"



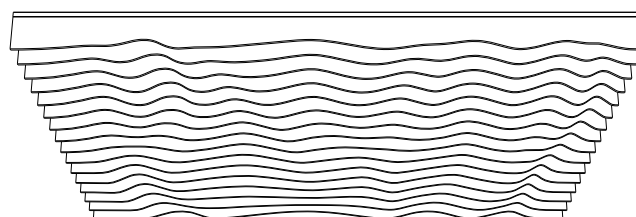
TUNDRA 8"



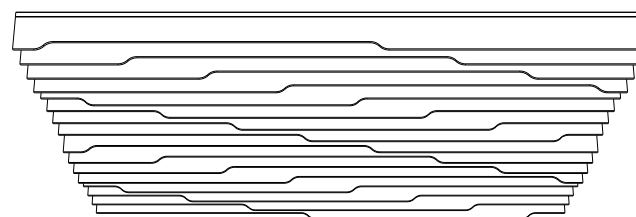
TUNDRA 12"



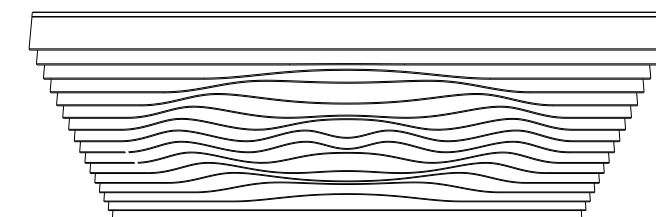
WAVE



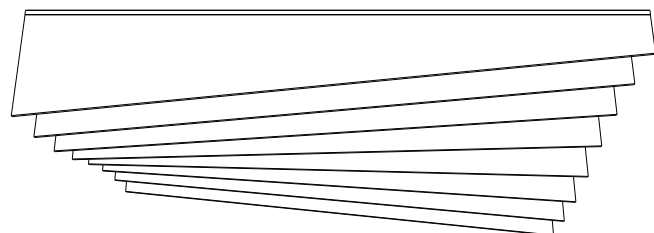
DRAPE



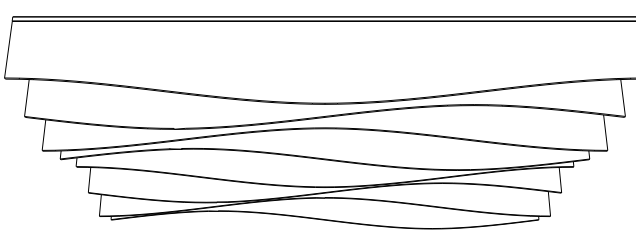
GLIDE



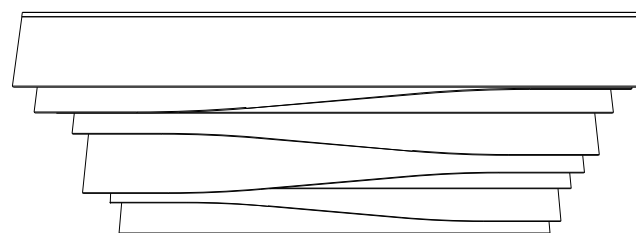
RIPPLE



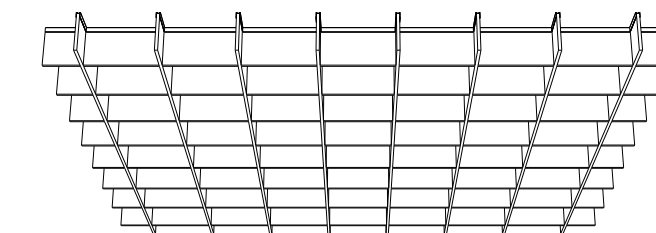
SIERRA



TALUS



DUNE



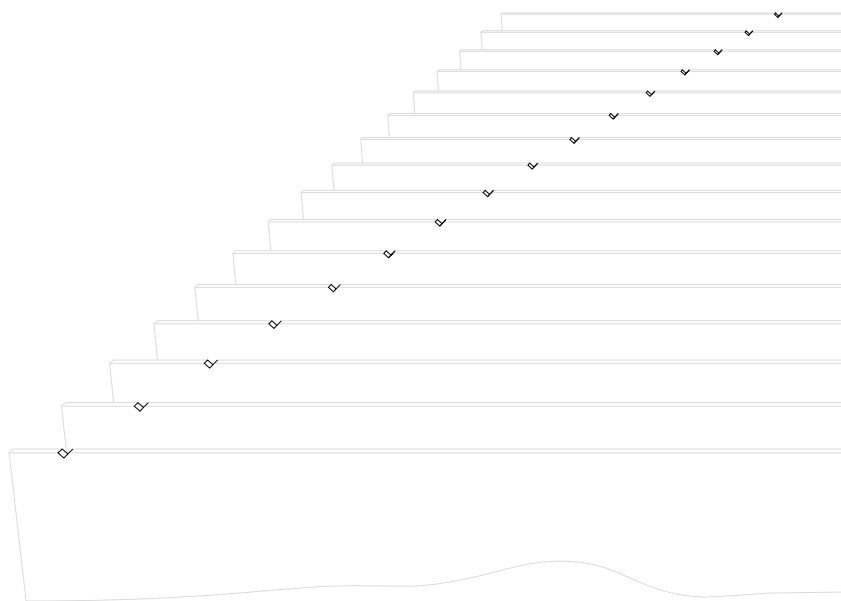
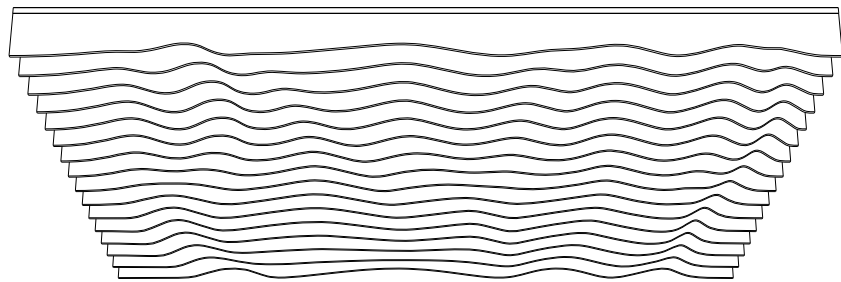
AXIS



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.

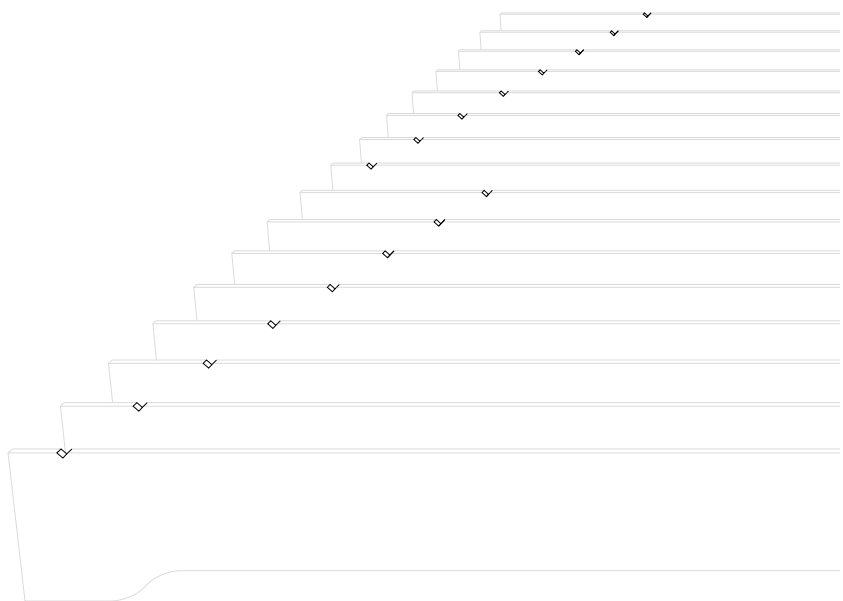
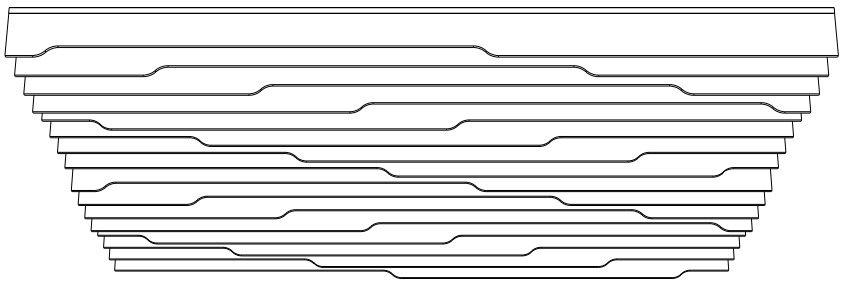
If you are using a style noted below, check how these notches should be sequenced for correct install order.

DRAPE



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

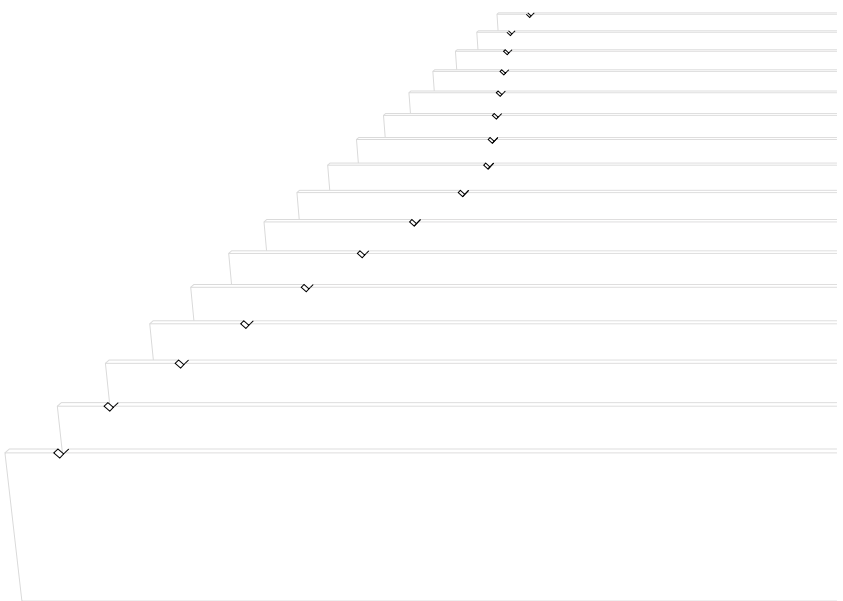
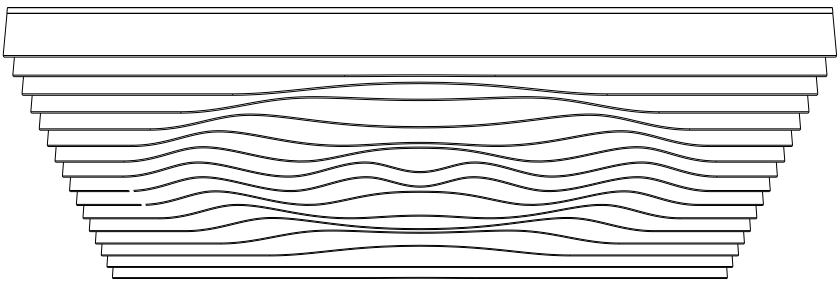
GLIDE



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

This pattern looks continuous from beneath when installed correctly.

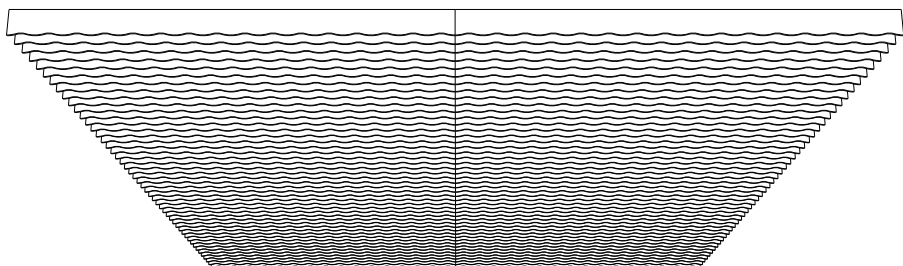
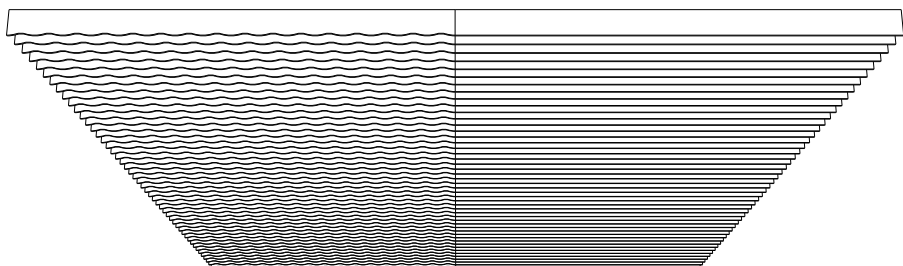
RIPPLE



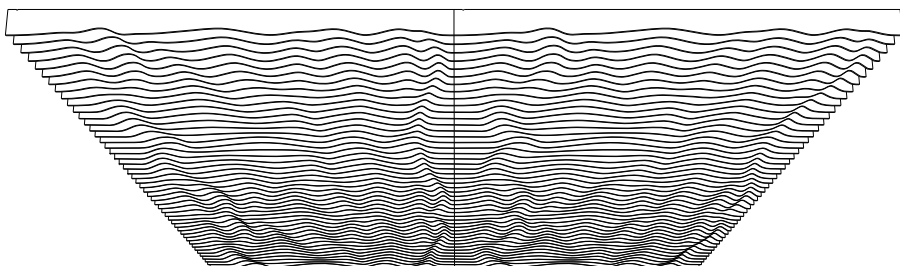
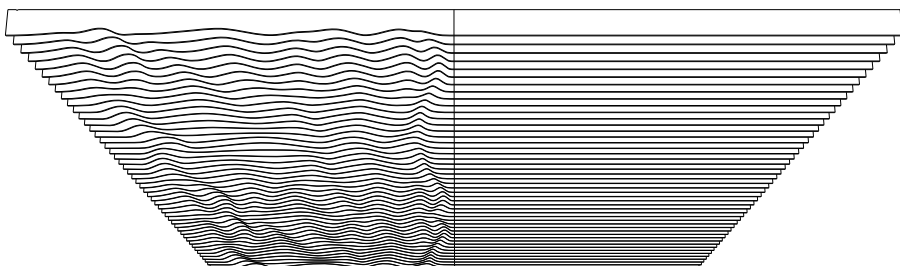
Ripple has a symmetrical pattern, so the notches should reverse direction at half-way like shown.



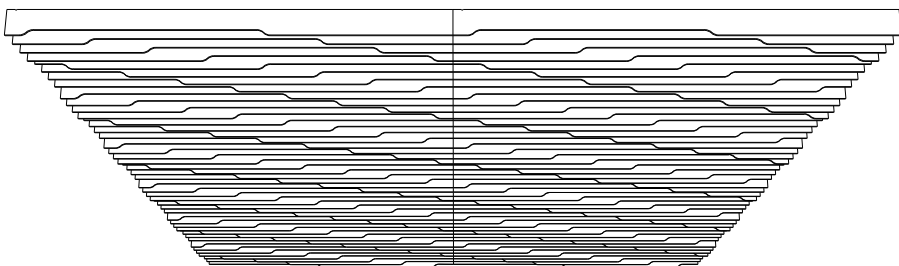
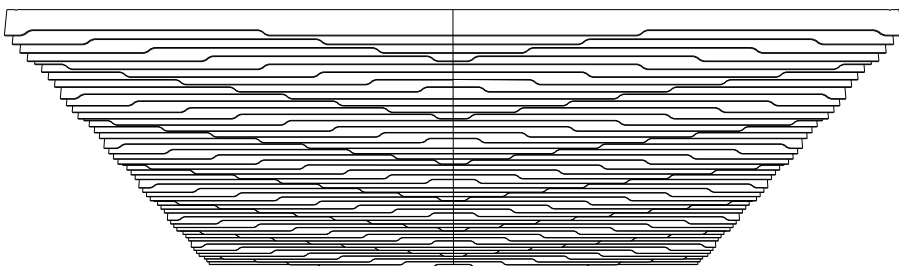
WAVE



DRAPE

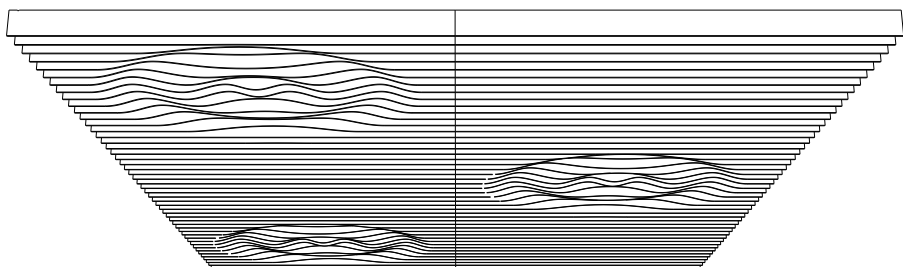


GLIDE



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

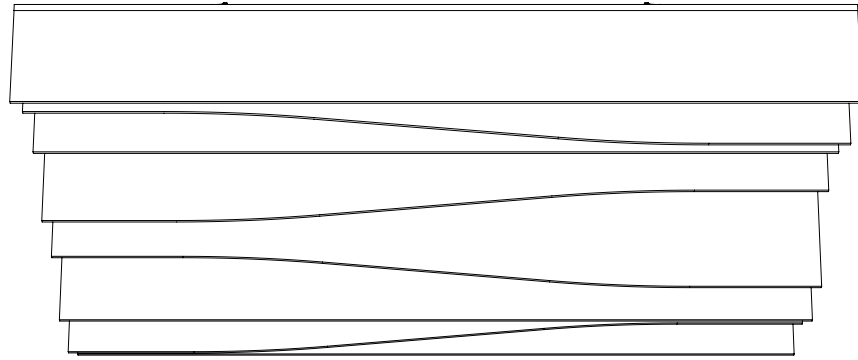
RIPPLE



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.

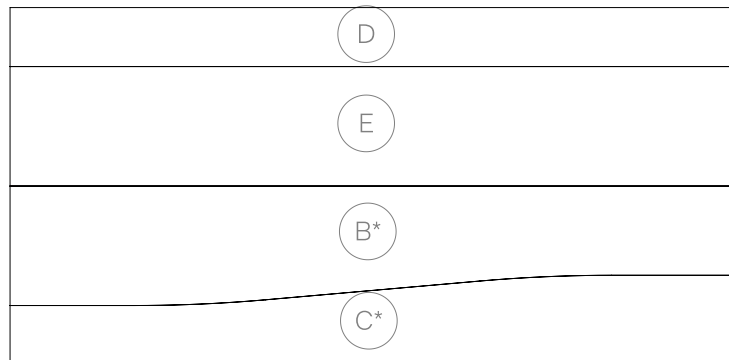
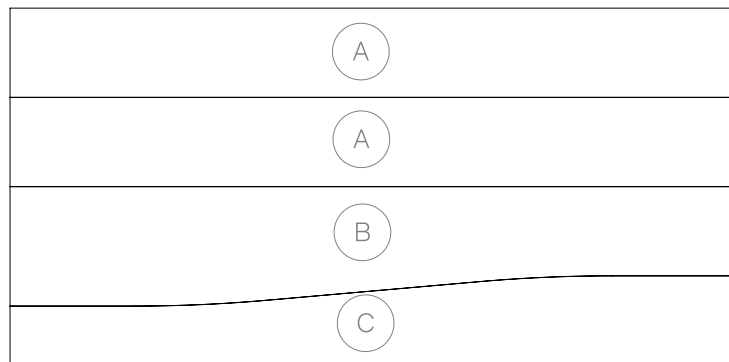


DUNE

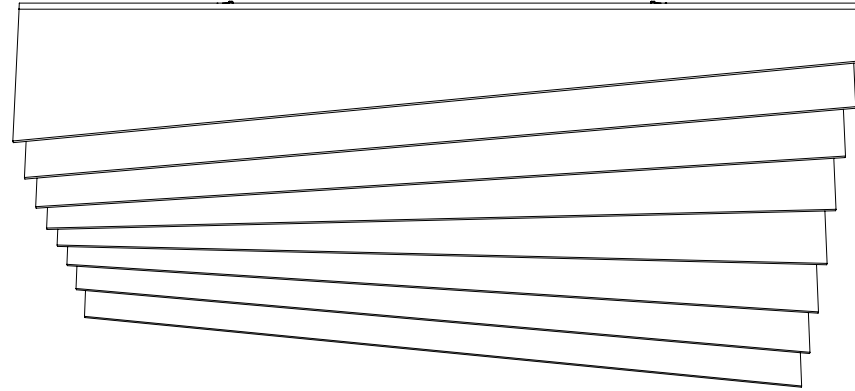


Install sequence pattern as shown above
A, C, D, C*, B, E, B*, A

Box layout as shown below.

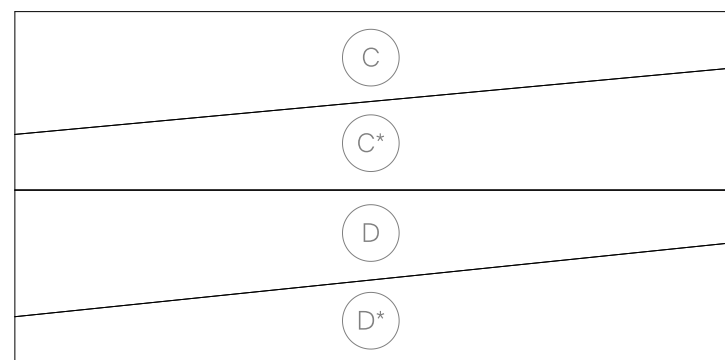
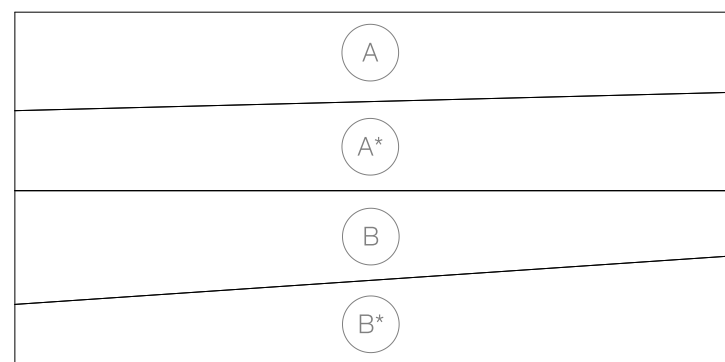


SIERRA

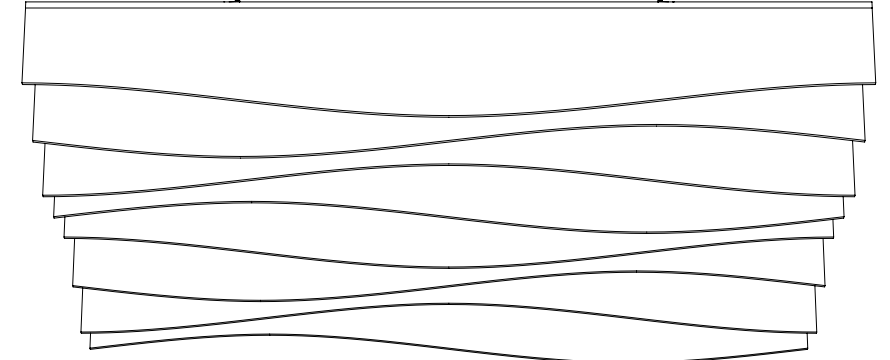


Installation sequence pattern as shown above
D, C, B, A, A*, B*, C*, D*...
To continue the pattern, the following set of 8 fins will be in the
REVERSE order

Box layout as shown below.

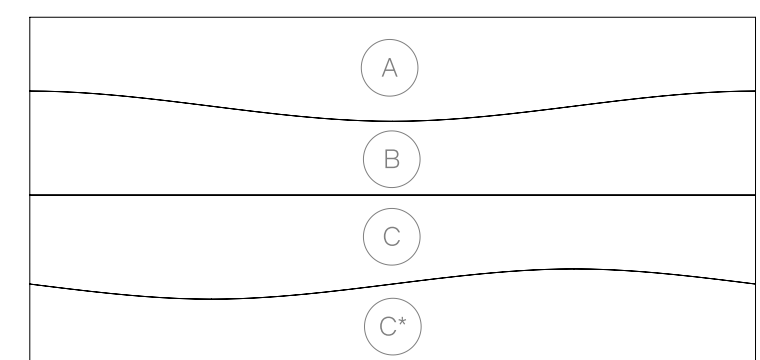
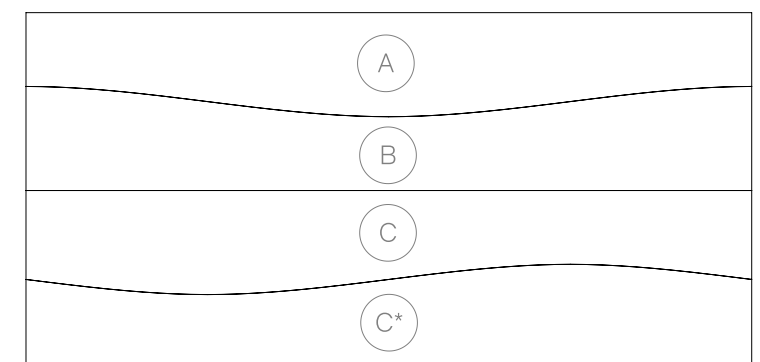


TALUS



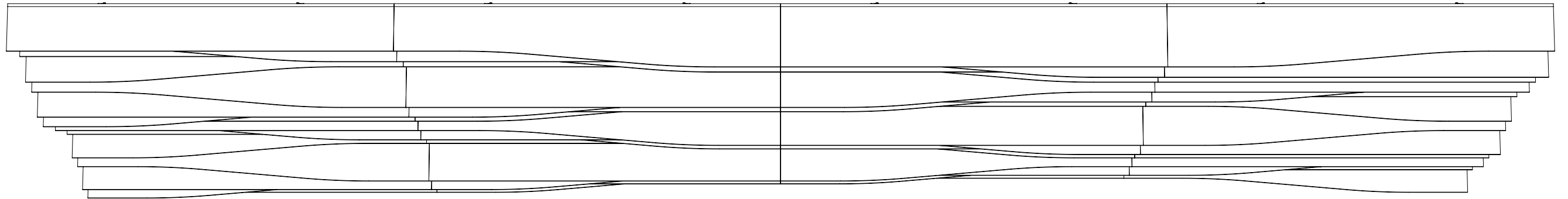
Installation sequence pattern as shown above
A, C, B, C*, A, C, B, C*...

Box layout as shown below.

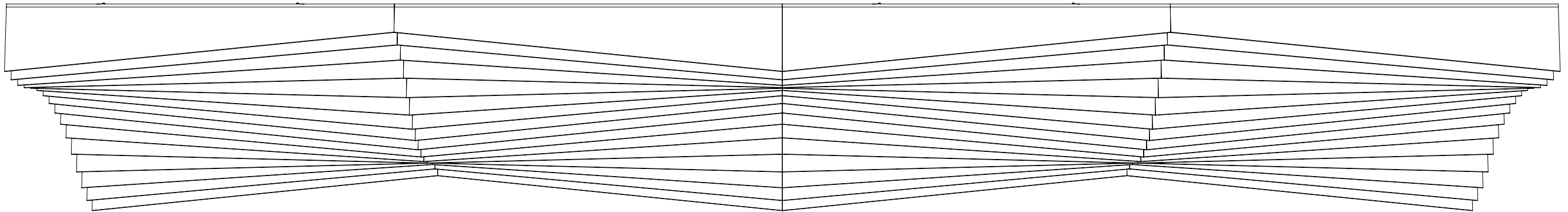




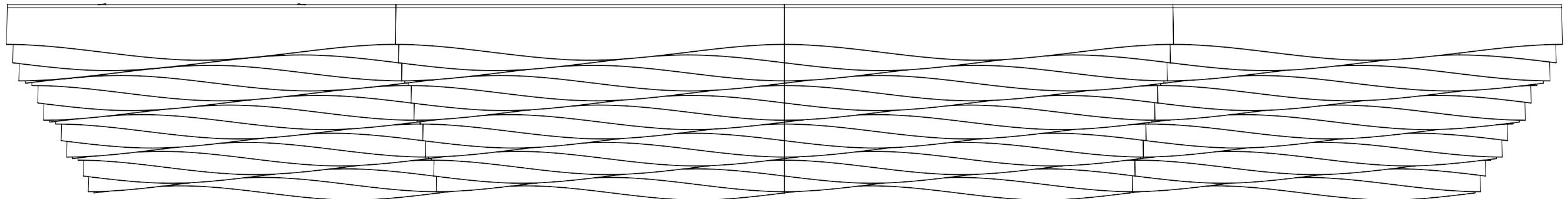
DUNE



SIERRA



TALUS



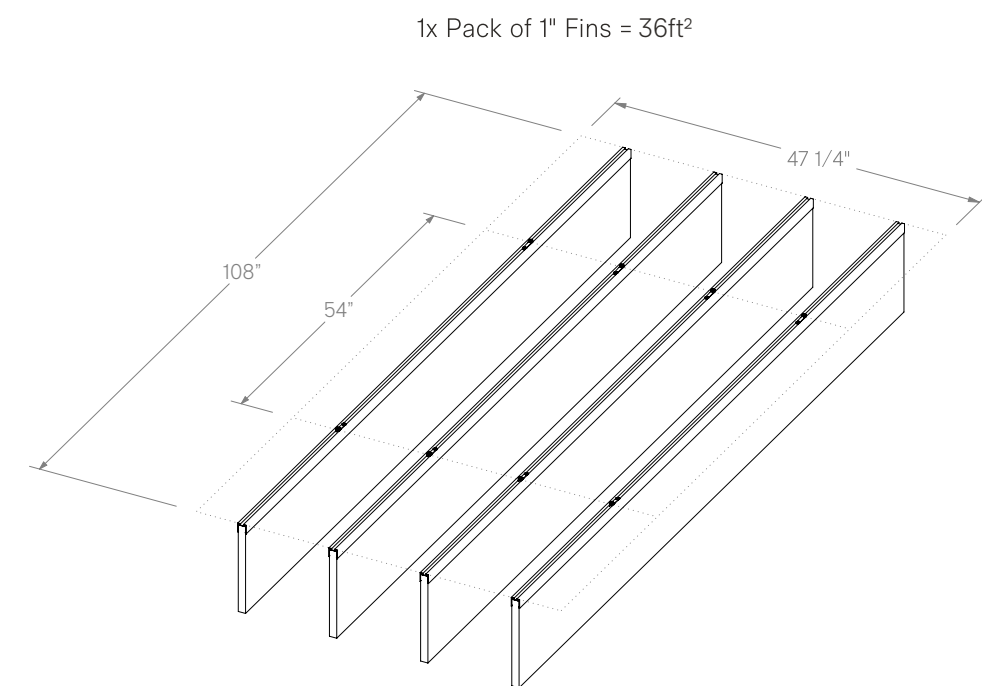
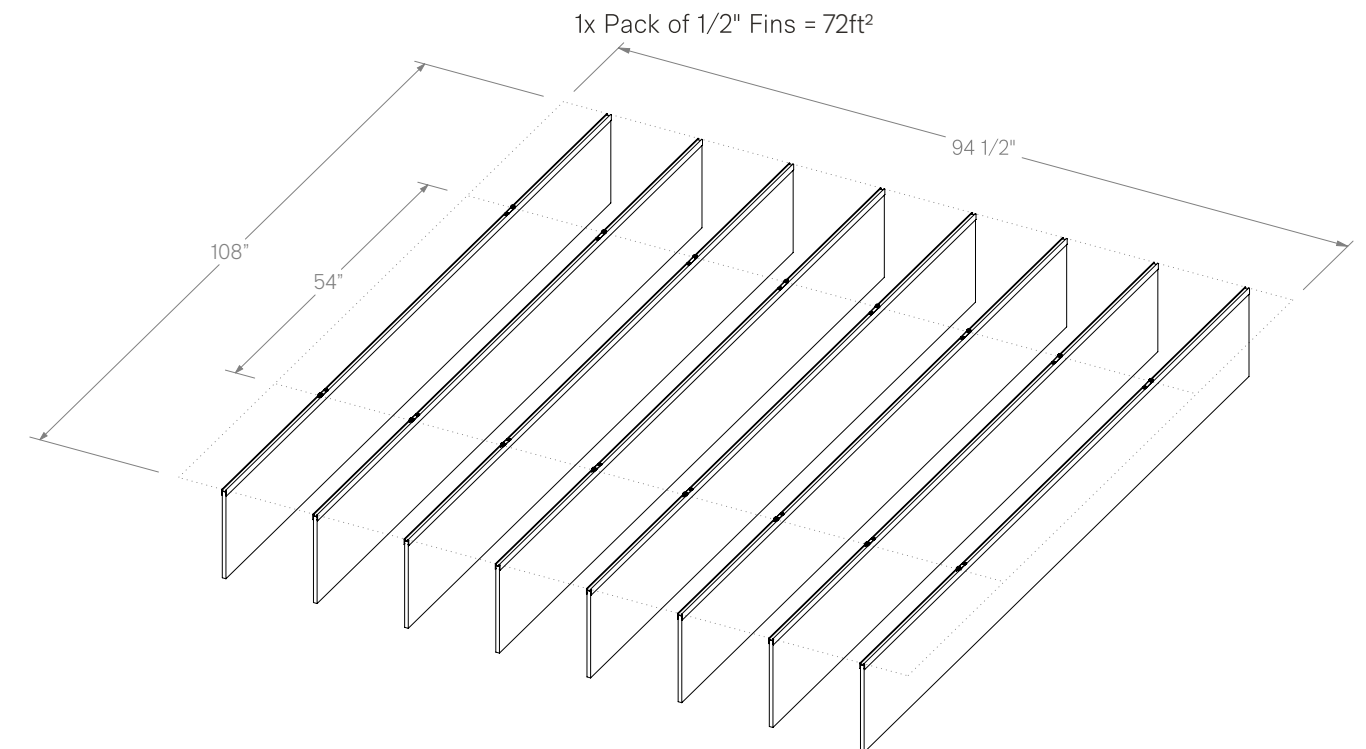
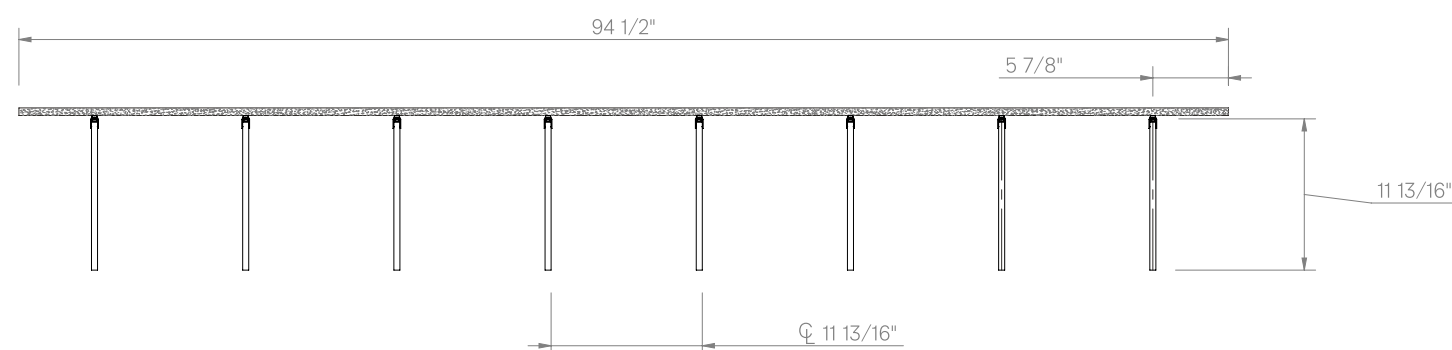
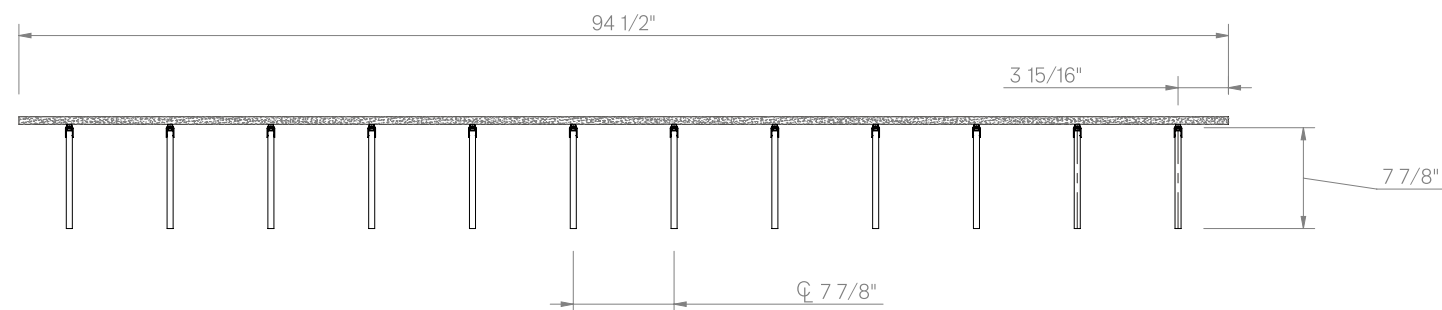
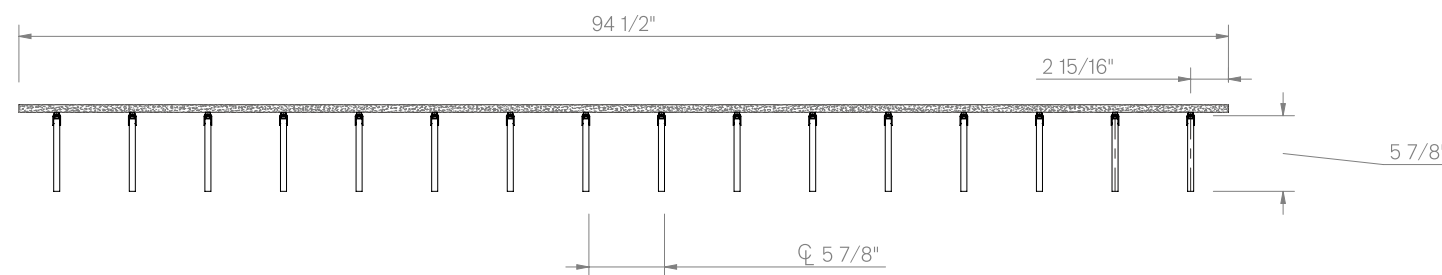
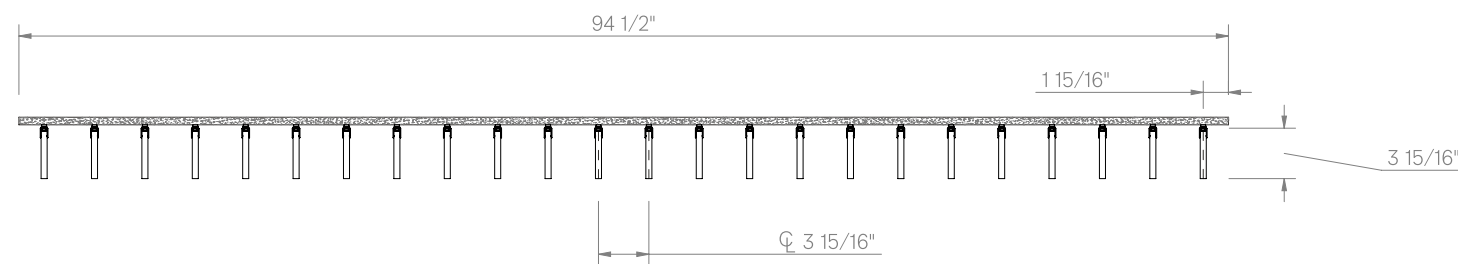
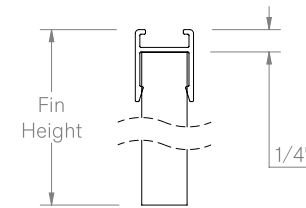


NOTES

- Recommended guide for listed ceiling coverage is for the fin spacing to be equal to the fin height.

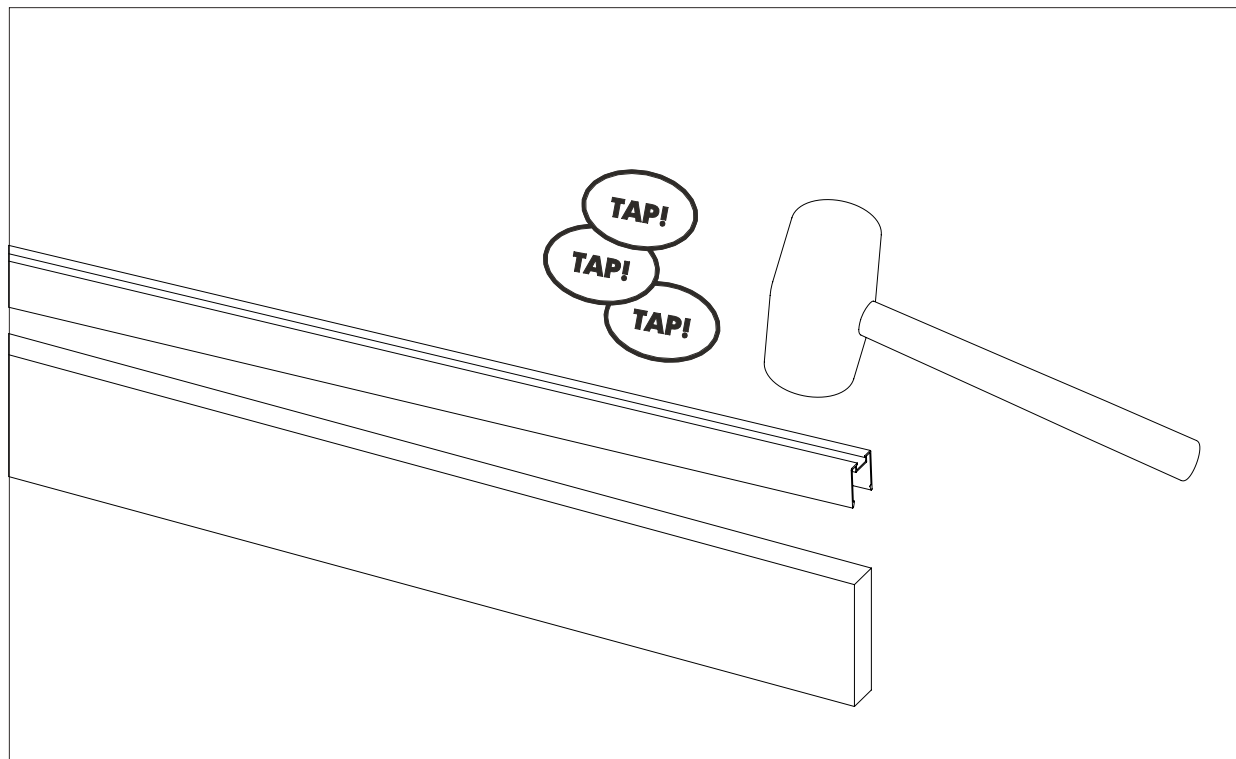
- Fin height is inclusive of the Autex Frontier Extrusion

FIN SPACING = FIN HEIGHT



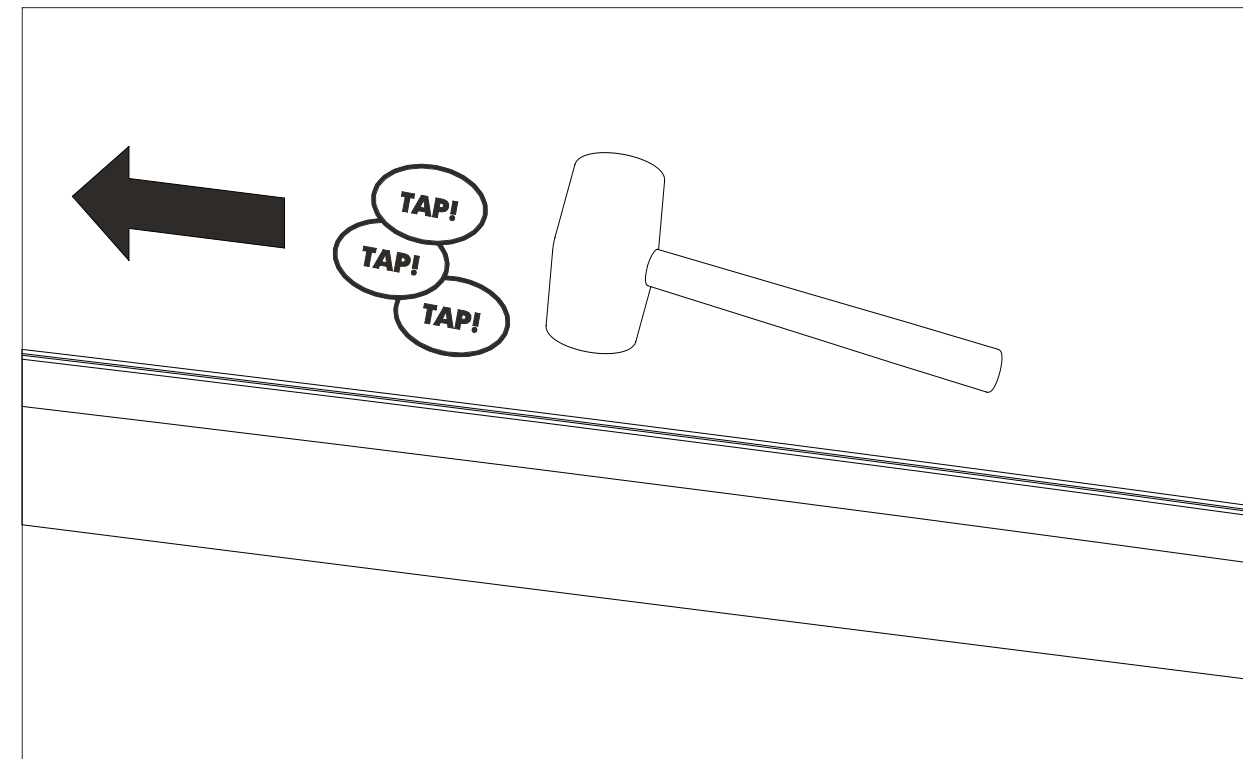


1.



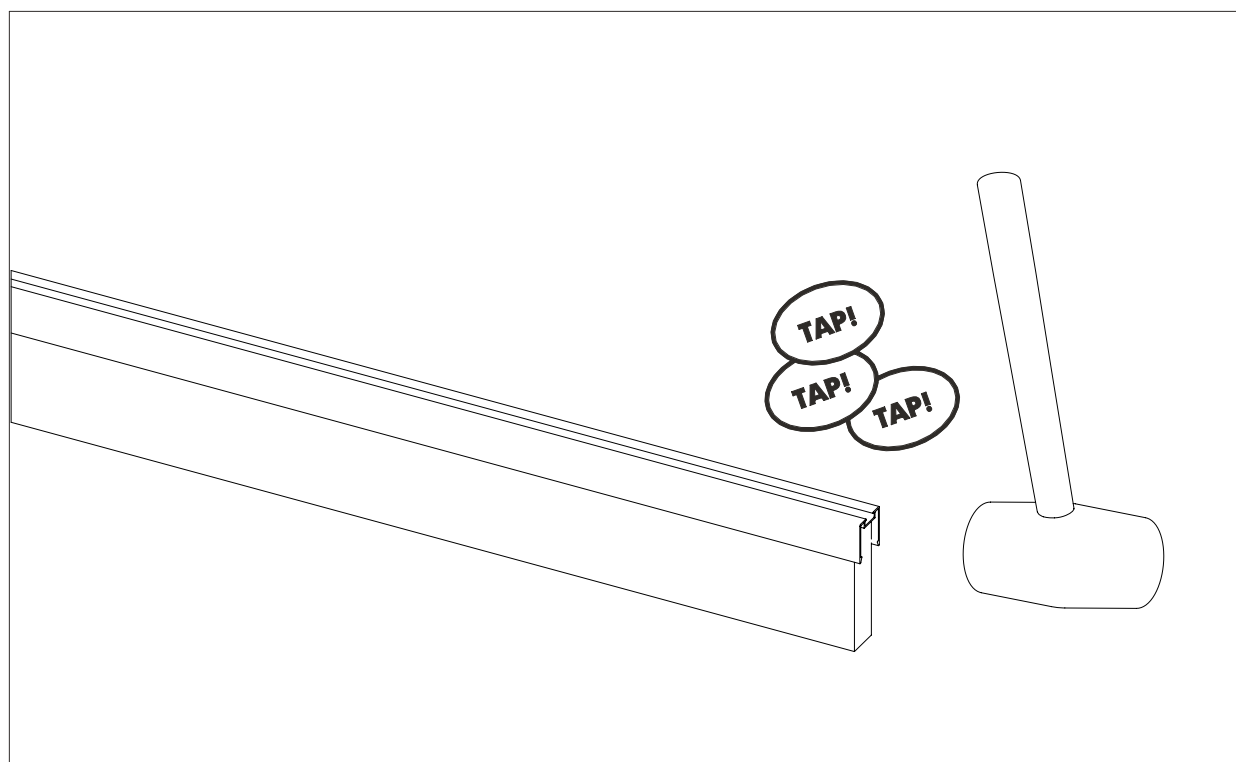
Using a rubber mallet, seat the channel onto the fin.

2.



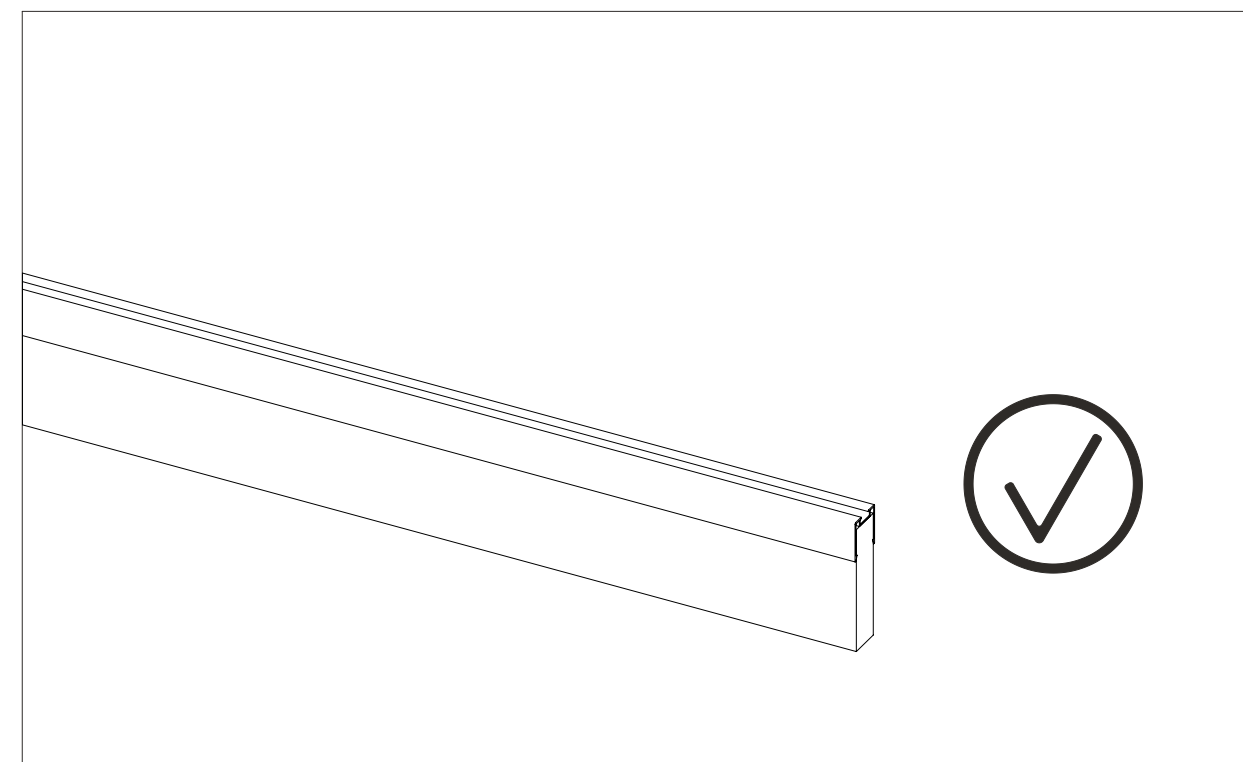
Starting at one end and using the mallet, tap along the length of the channel to ensure there is no bowing in the centre and the channel is seated correctly.

3.



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

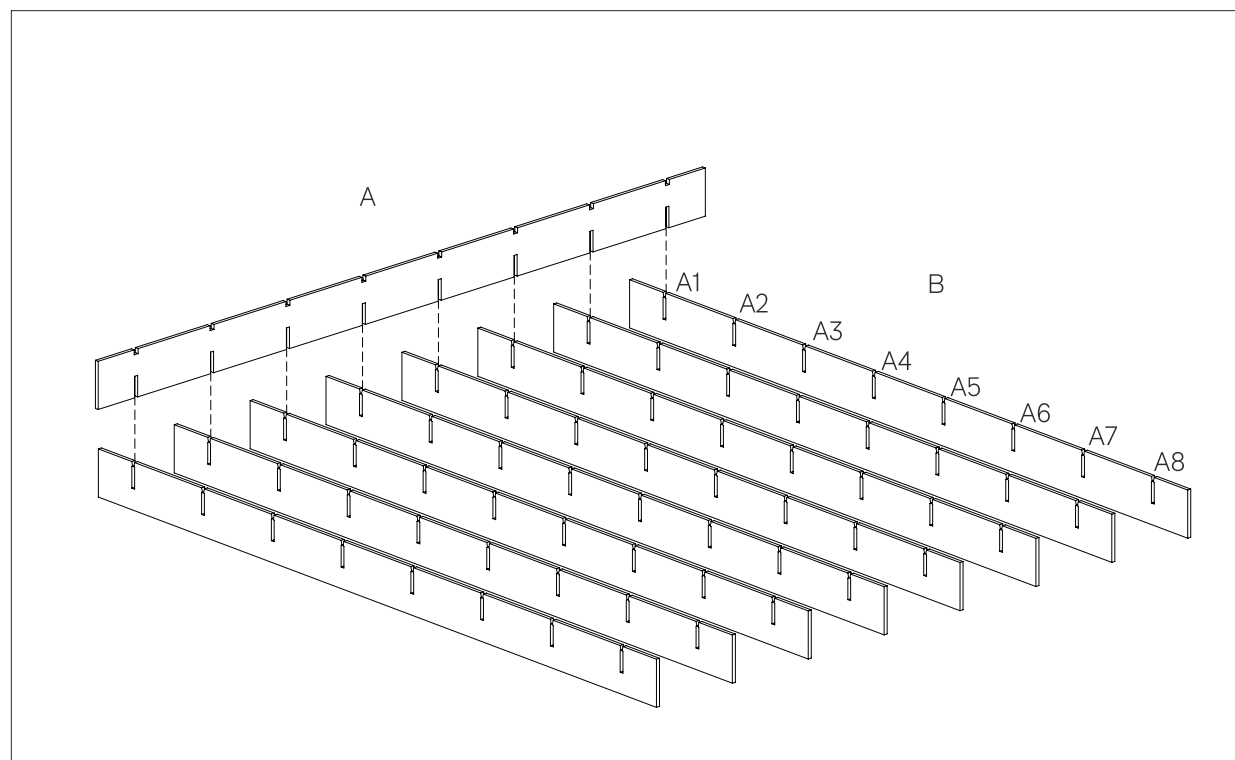
4.



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

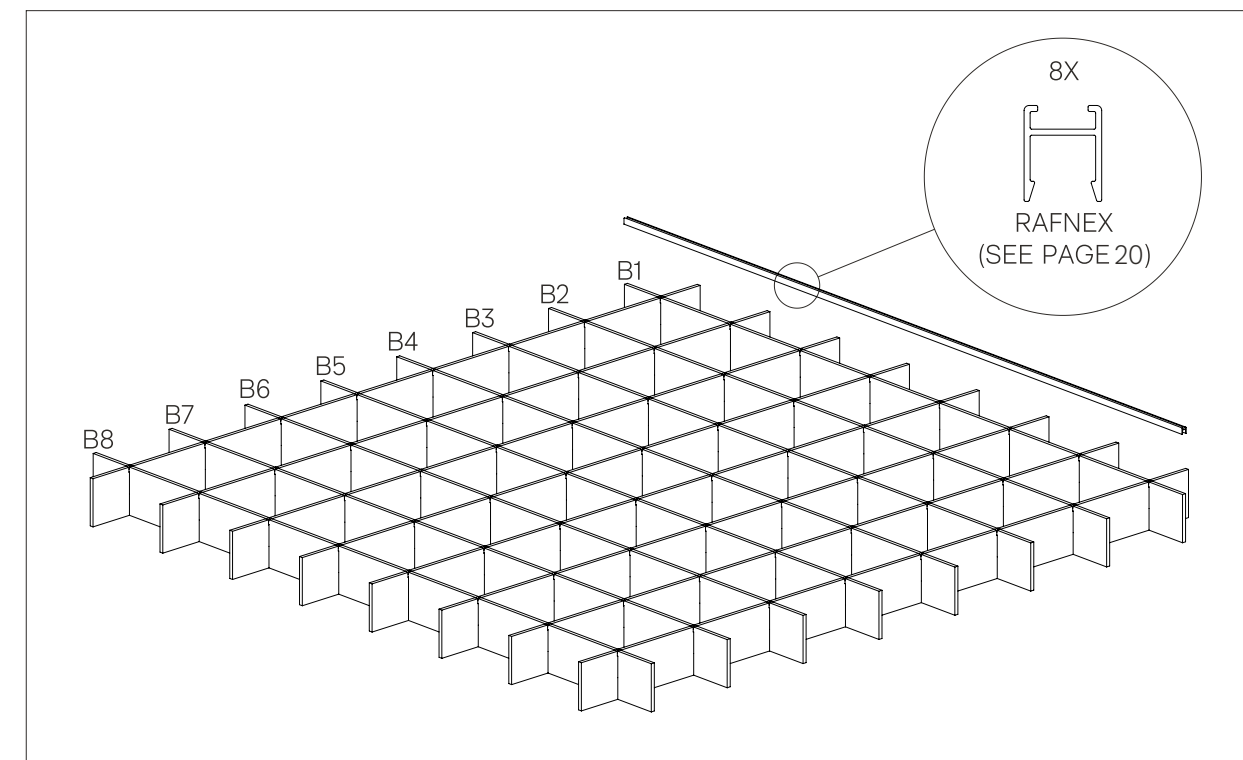


1.



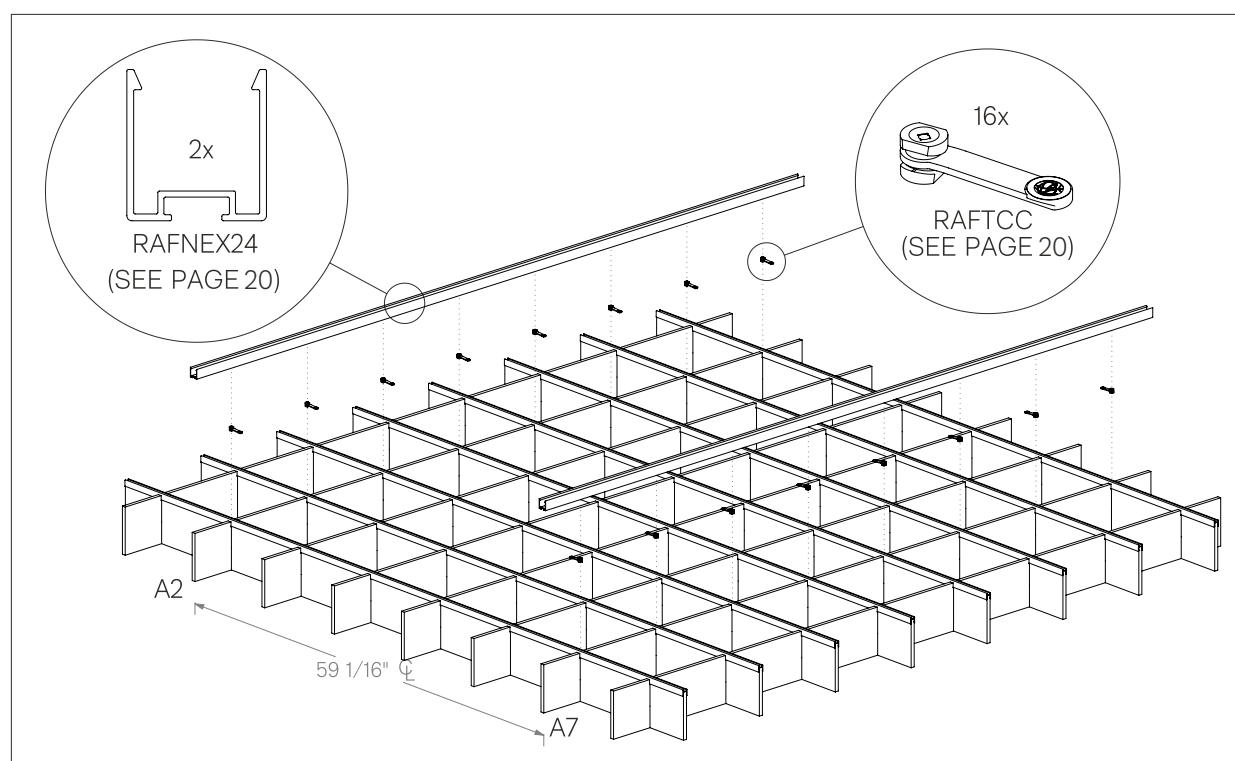
In the Frontier Axis pack there are two types of Fin (A and B). Part A has two notches and the small notch should be facing up when inserted into Part B.

2.



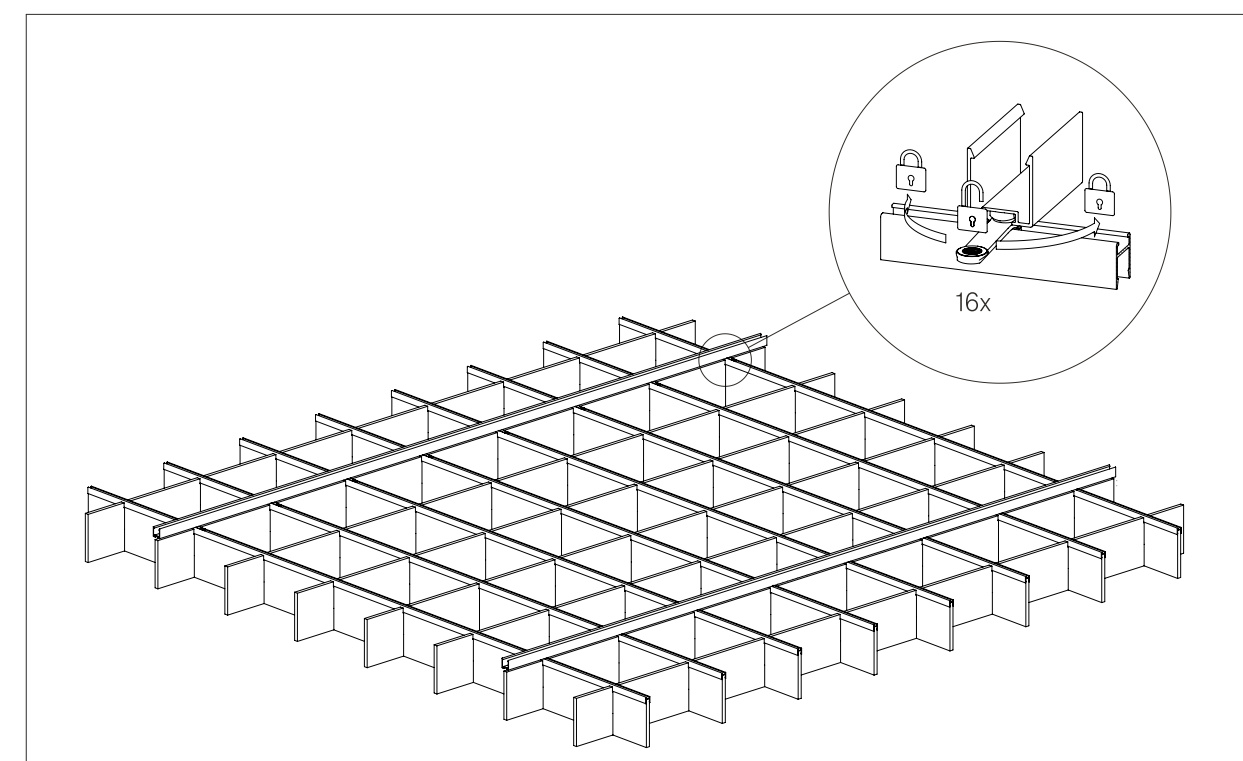
Using a rubber mallet, attach the 8x Rafnex channels along the lengths of the 'B' fins to lock the Axis Fins together in a grid.

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.

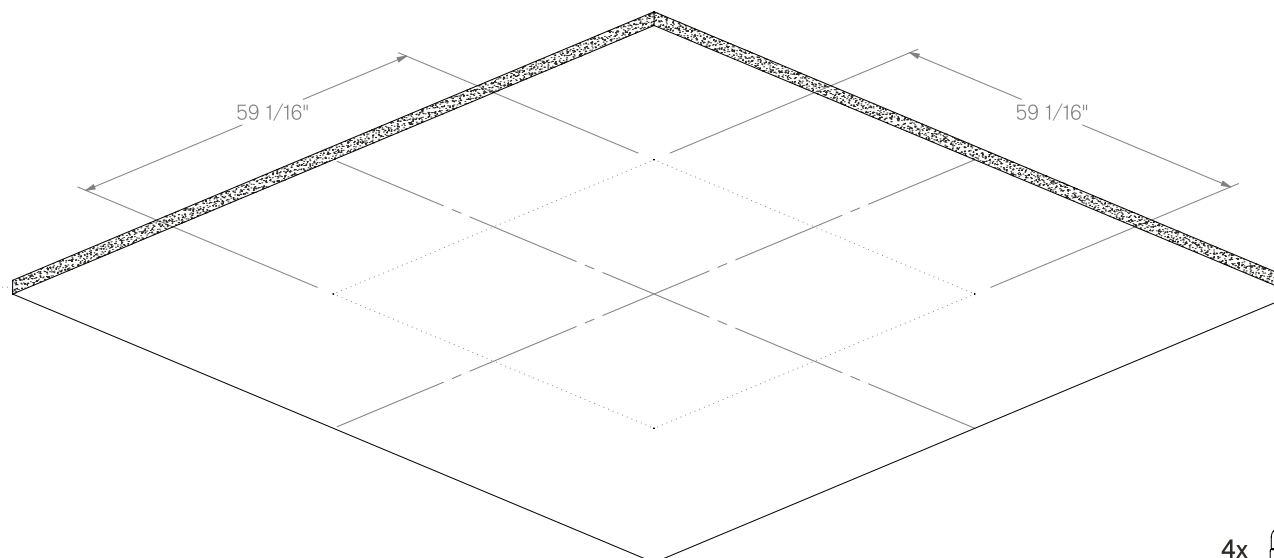
4.



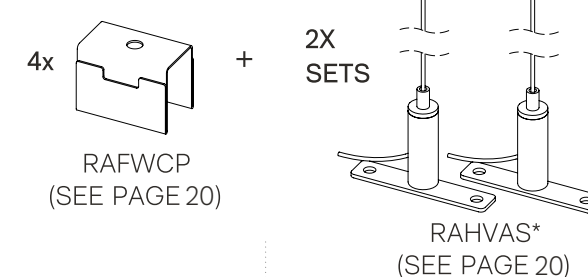
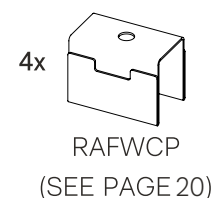
Twist the Autex Mounting Clips 90° to lock them off. The Frontier Axis Grid is now ready for installation to the ceiling.



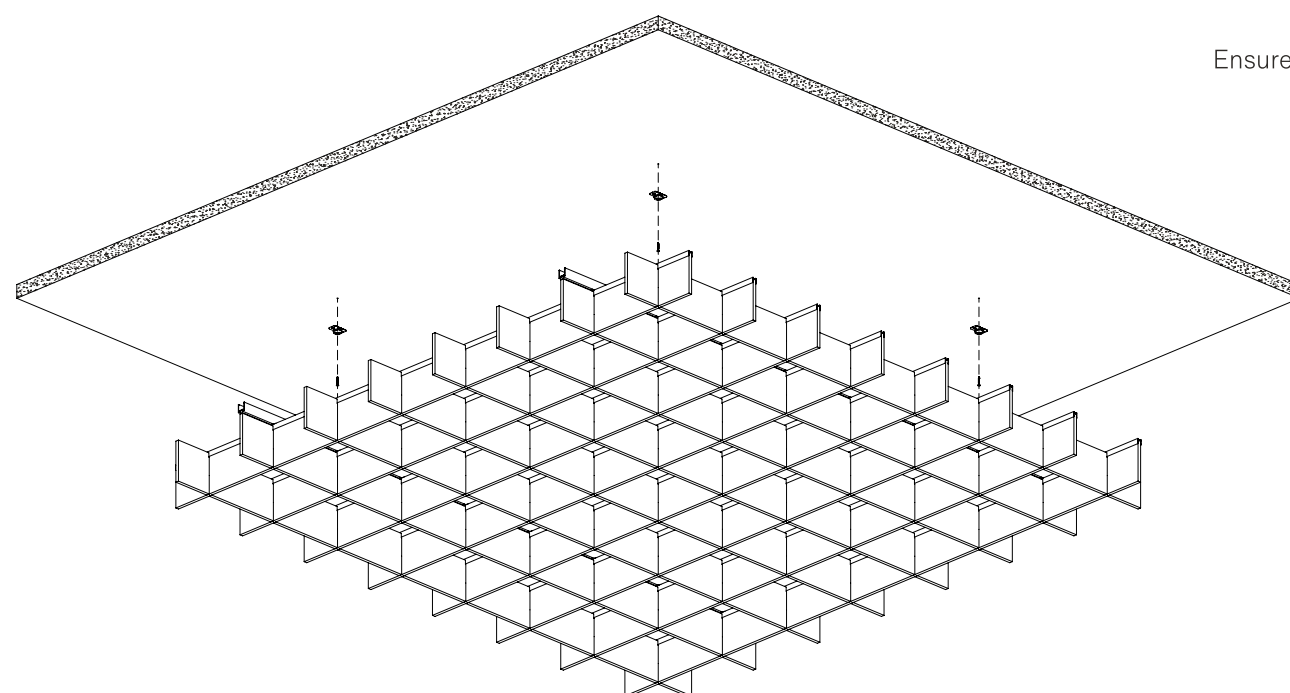
CEILING SETOUT



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

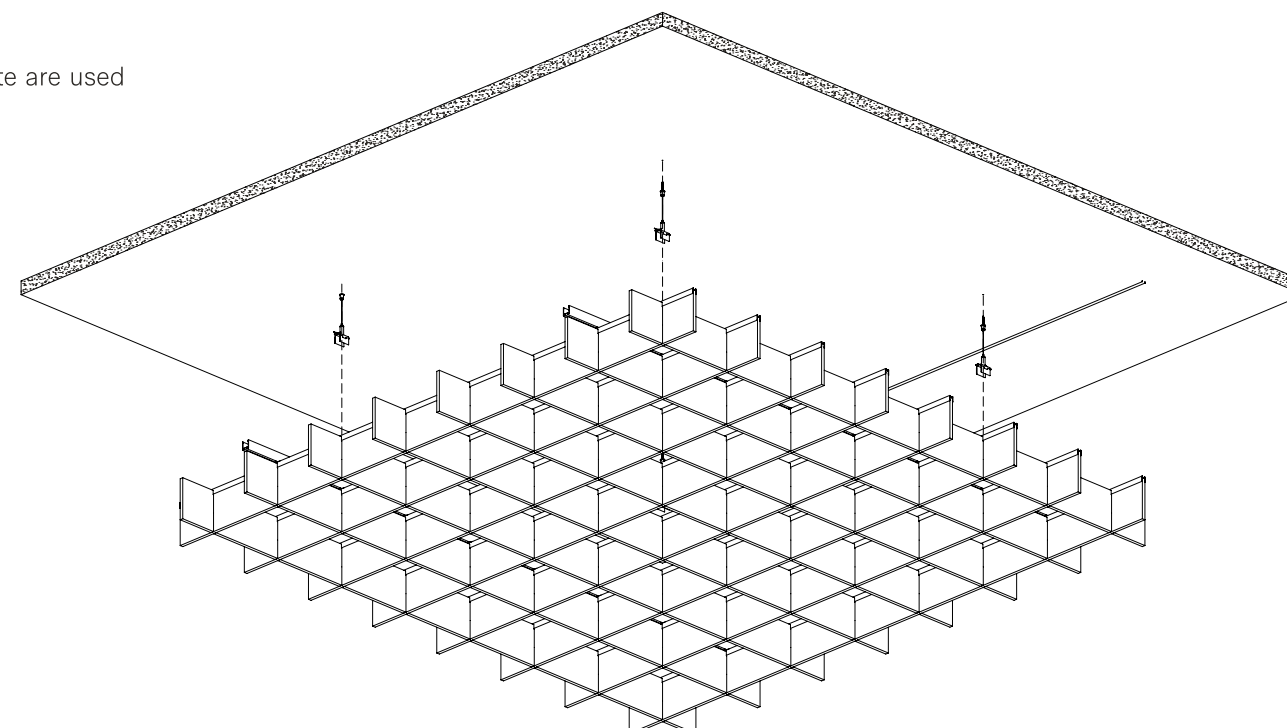


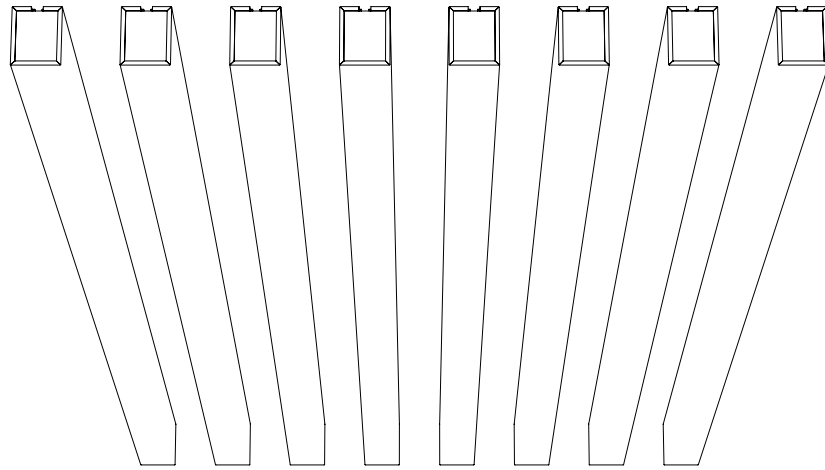
DIRECT FIX TO CEILING



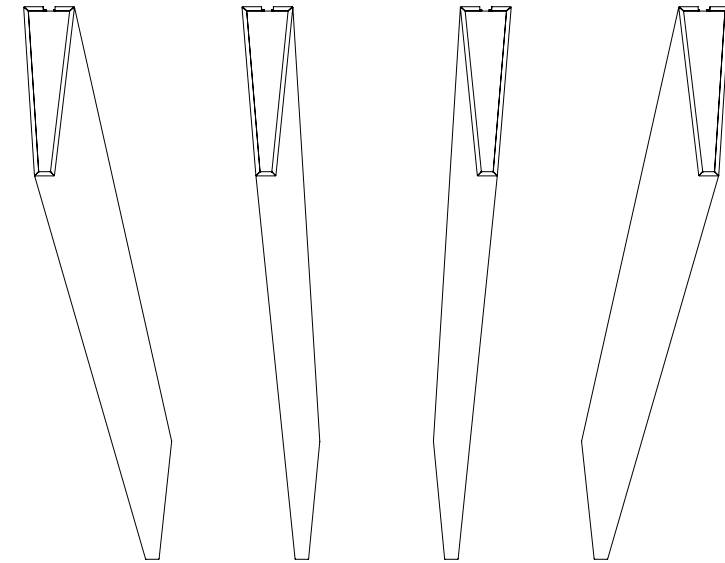
Ensure suitable fasteners for substrate are used
(NOT SUPPLIED)

SUSPENDED FROM CEILING

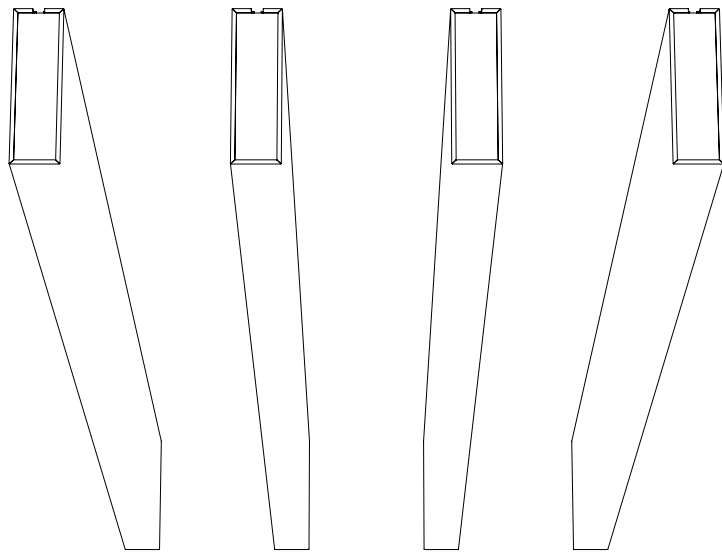




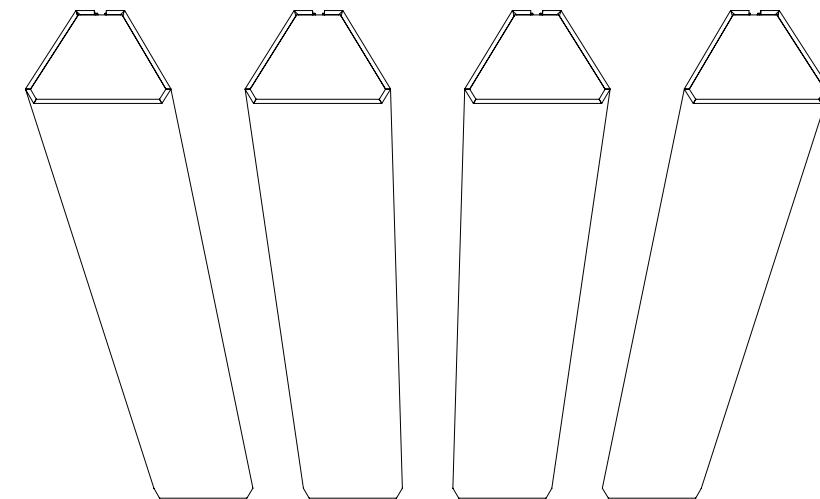
RAFT BEAM 100
1X PACK SHOWN



RAFT BLADE
1X PACK SHOWN



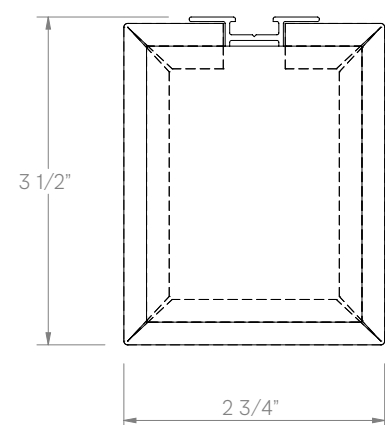
RAFT BEAM 250
1X PACK SHOWN



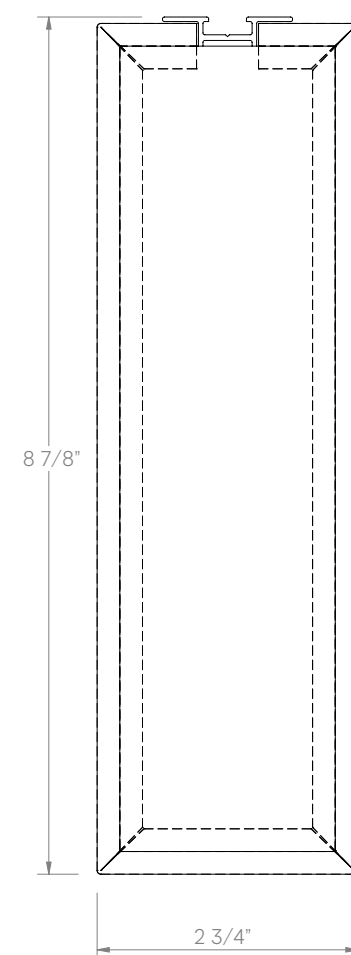
RAFT TRAPEZOID
1X PACK SHOWN



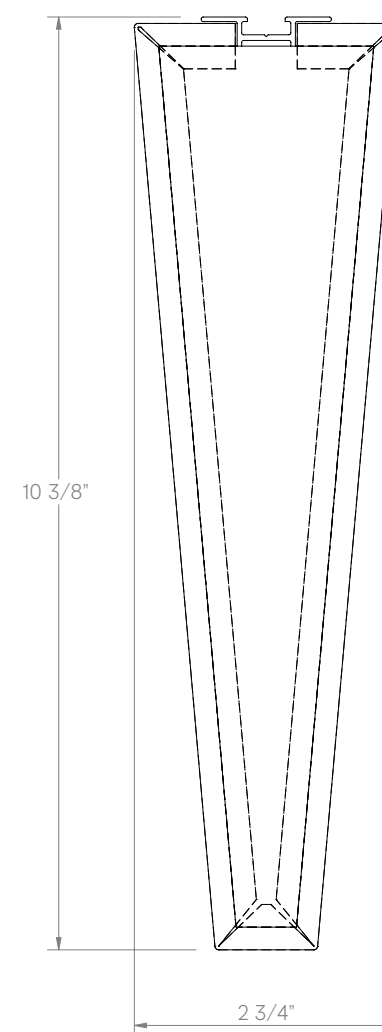
BEAM 100



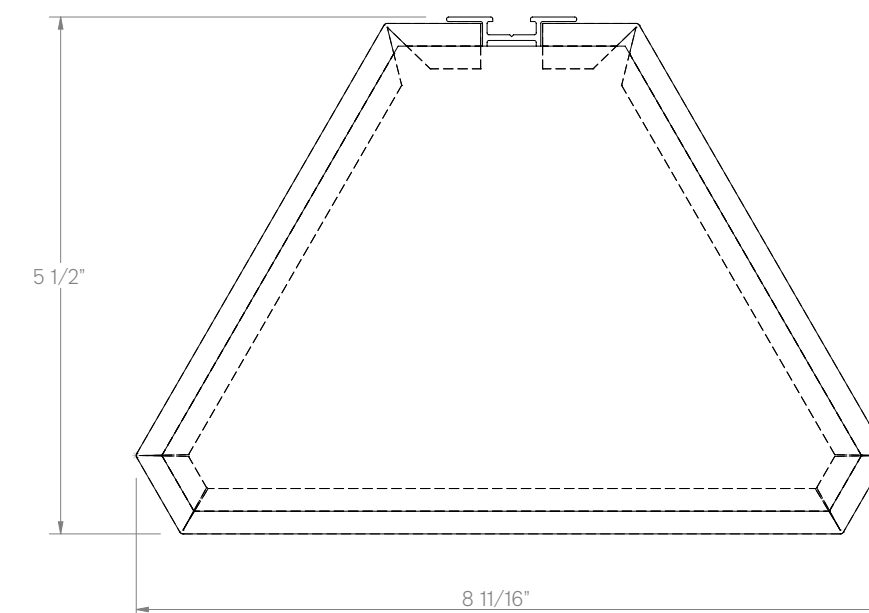
BEAM 250



BLADE

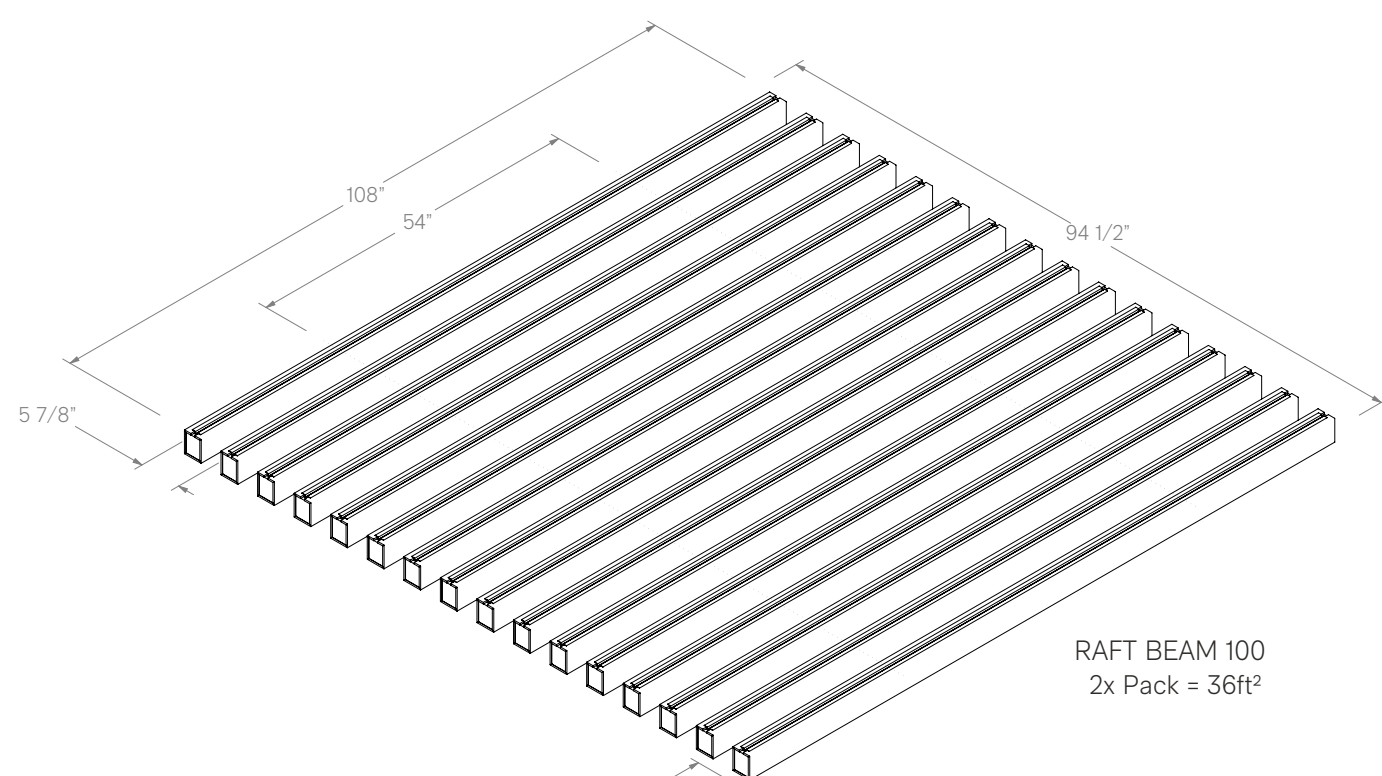


TRAPEZOID

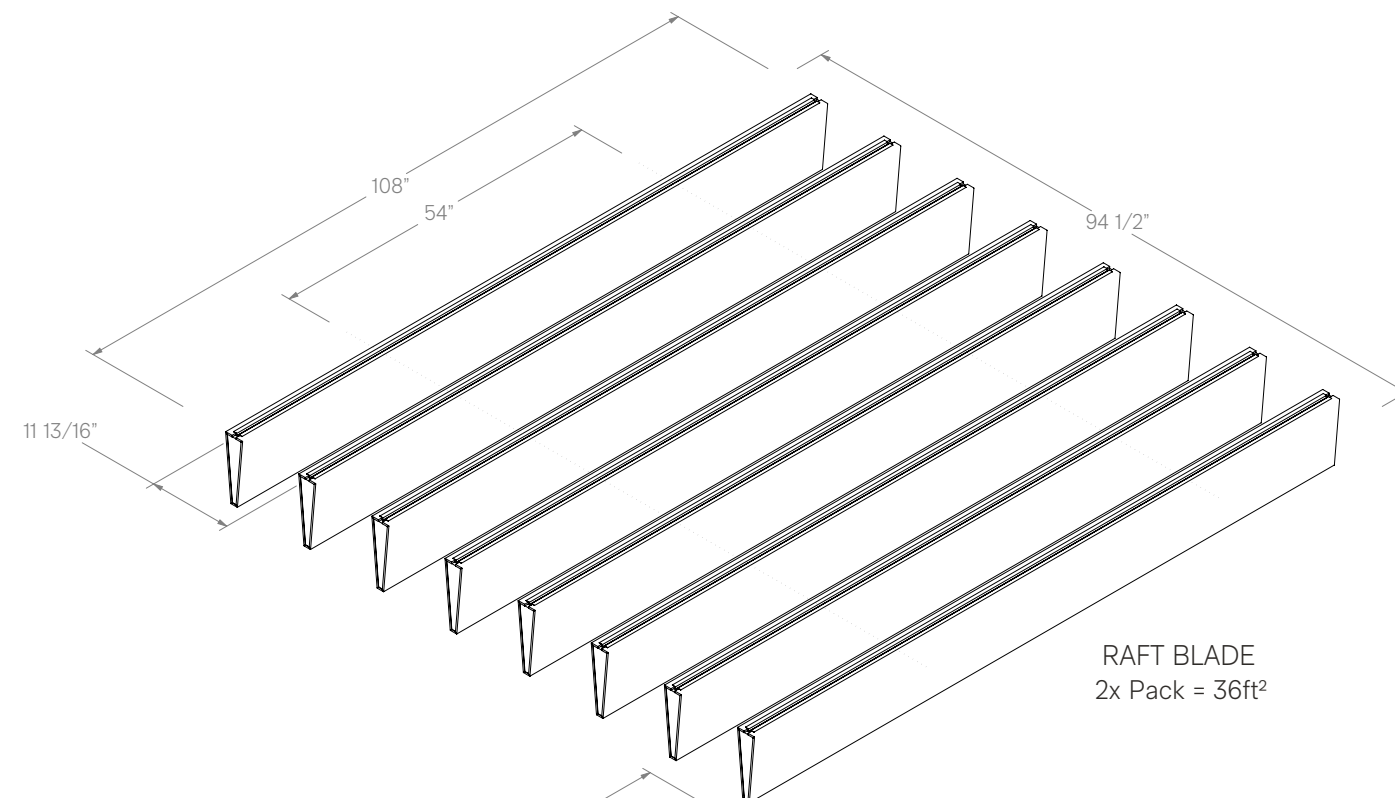


NOTES

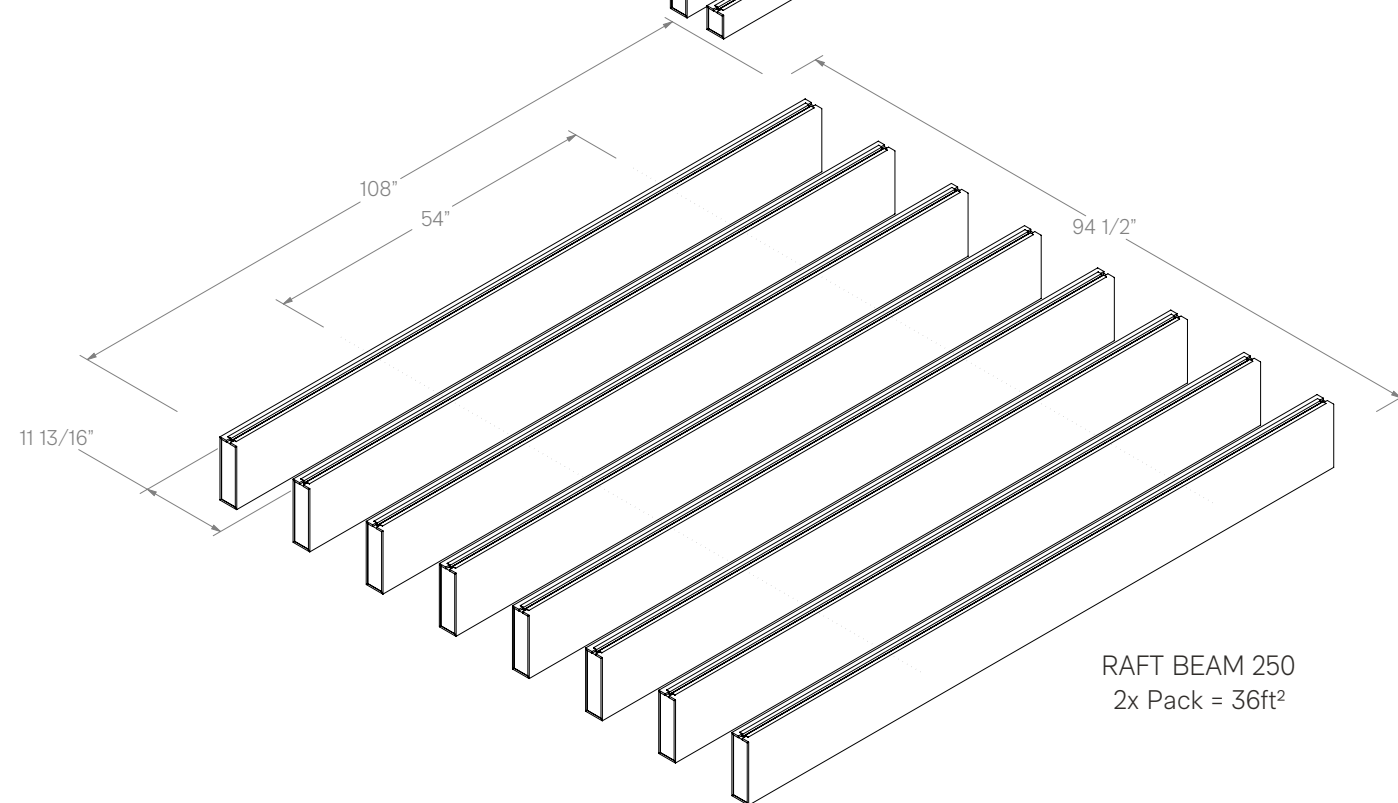
- Raft height is inclusive of the Autex frontier Raft Extrusion
- Refer to page 21 for recommended Raft spacing



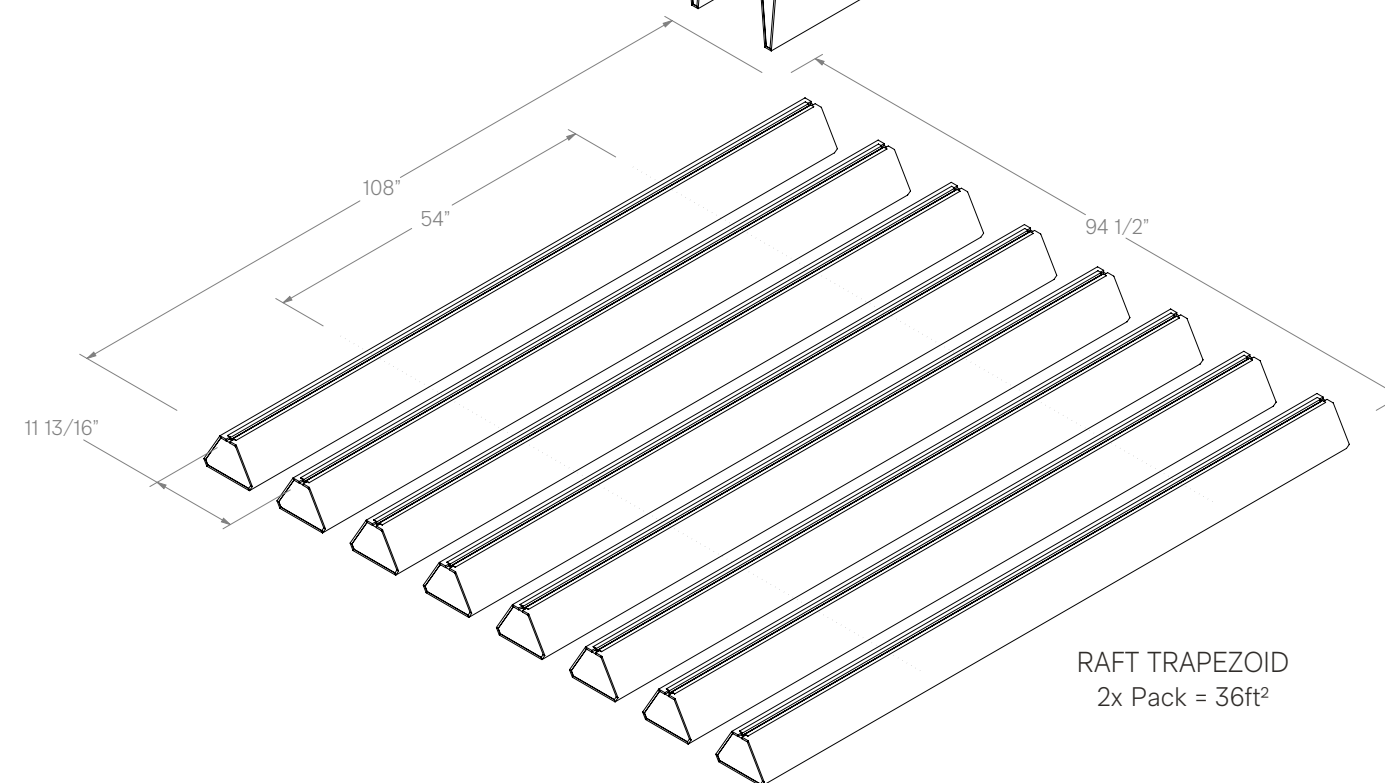
RAFT BEAM 100
2x Pack = 36ft²



RAFT BLADE
2x Pack = 36ft²



RAFT BEAM 250
2x Pack = 36ft²



RAFT TRAPEZOID
2x Pack = 36ft²

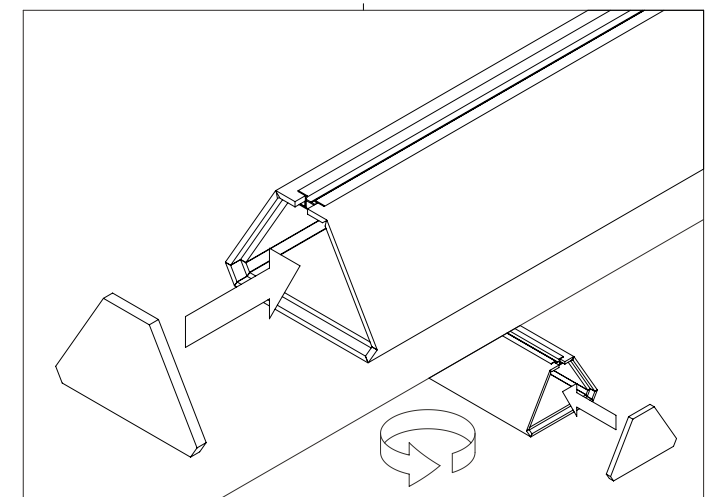
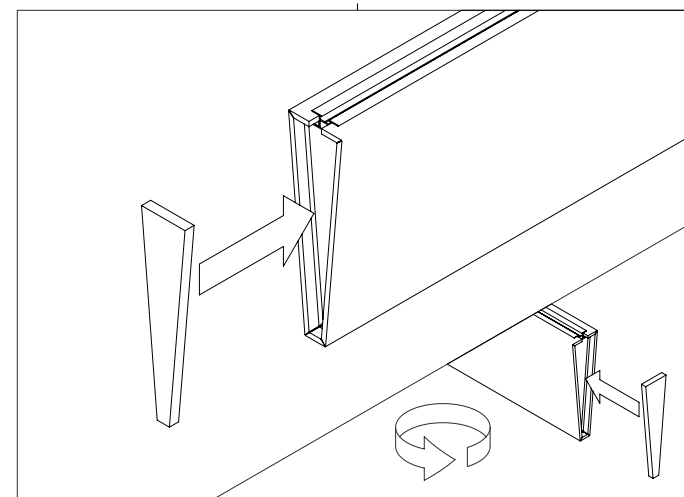
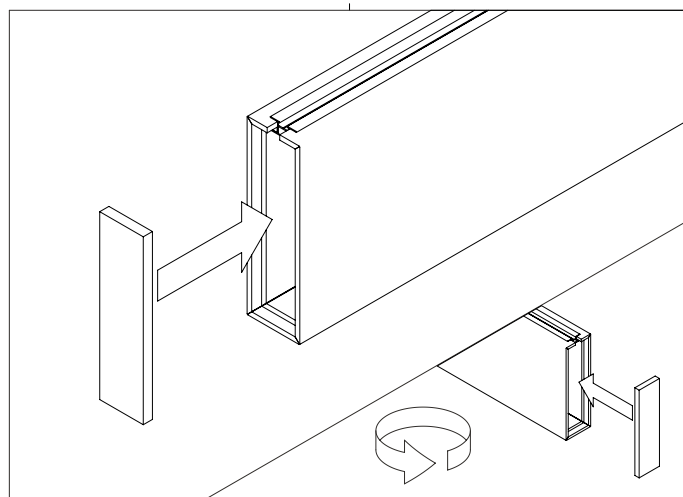
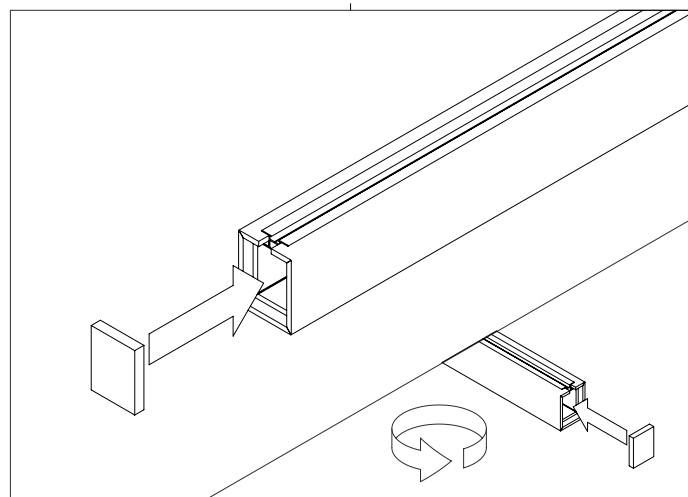
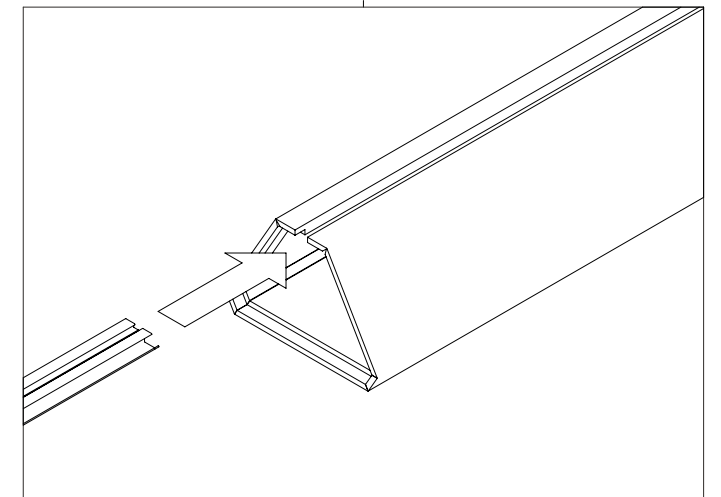
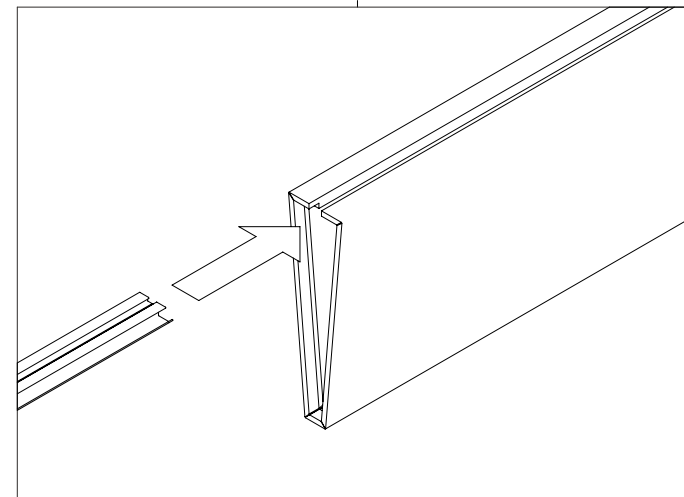
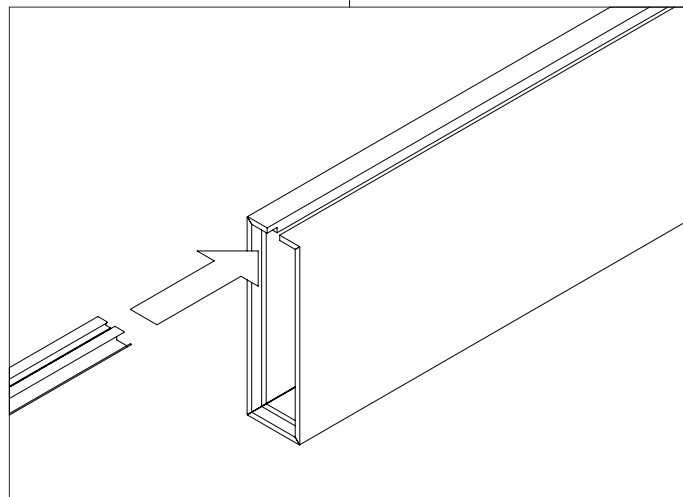
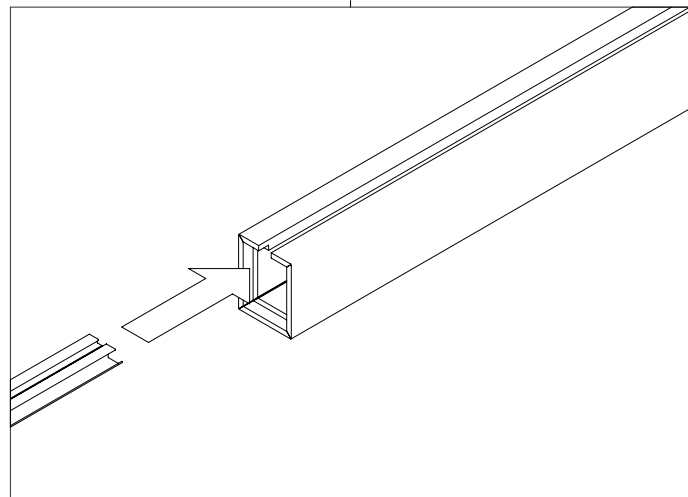
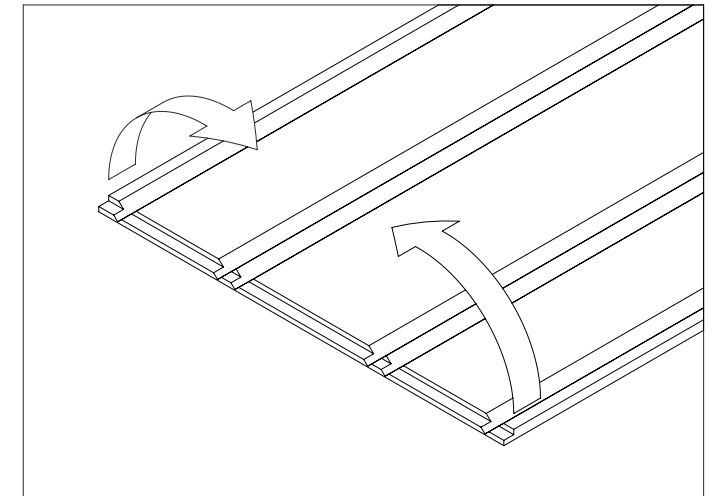
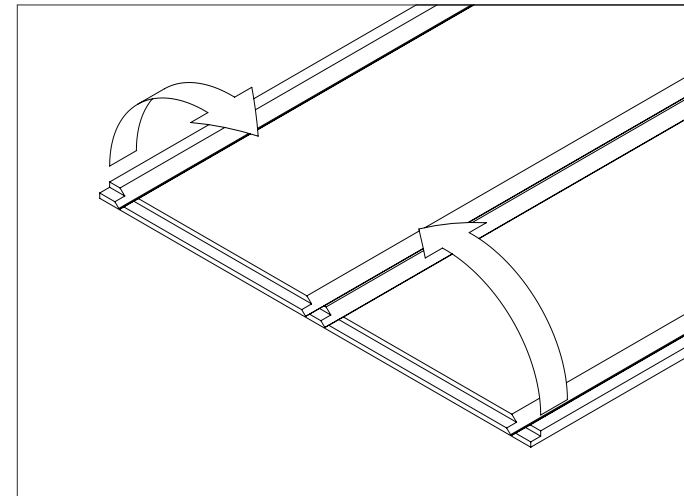
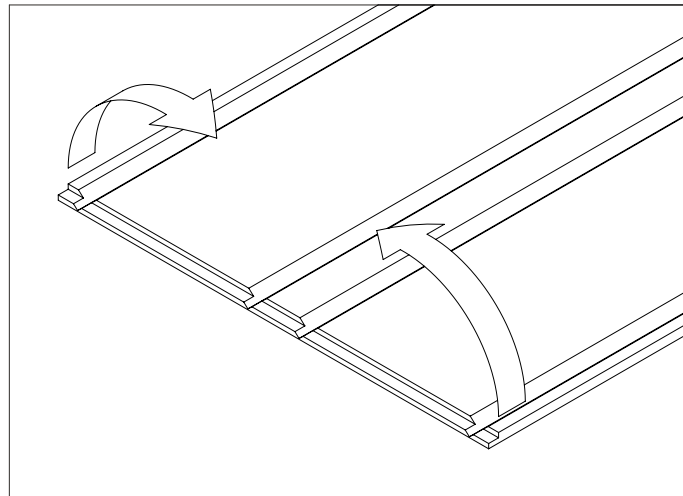
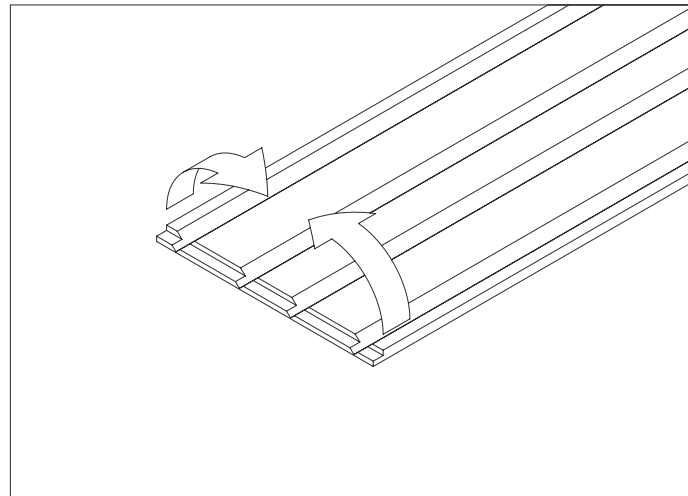


BEAM 100

BEAM 250

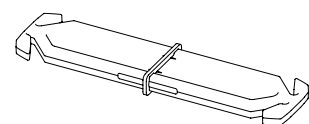
BLADE

TRAPEZOID

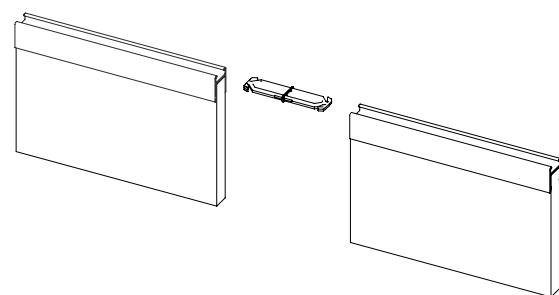




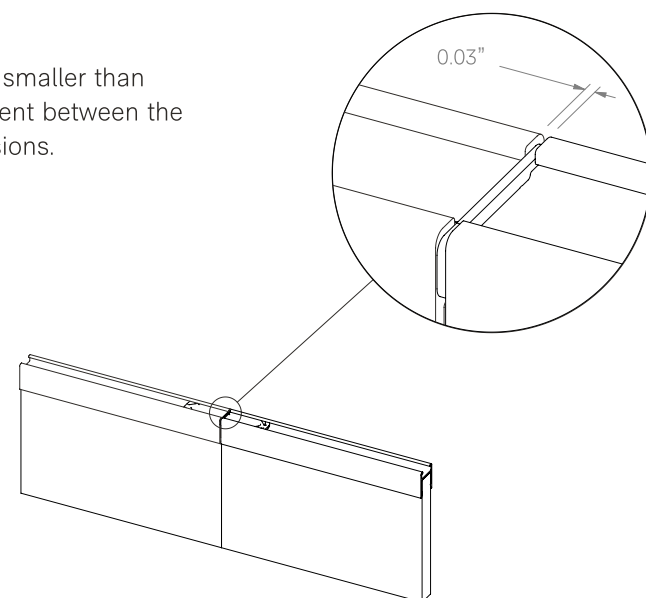
RAFCCT



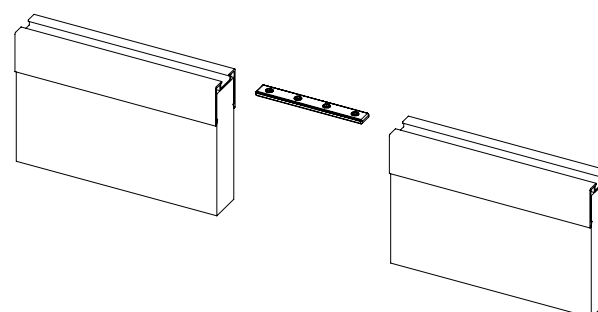
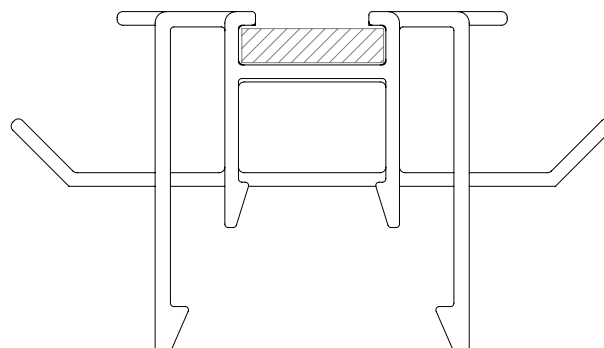
Light duty plastic connector used to join direct fixed rails.



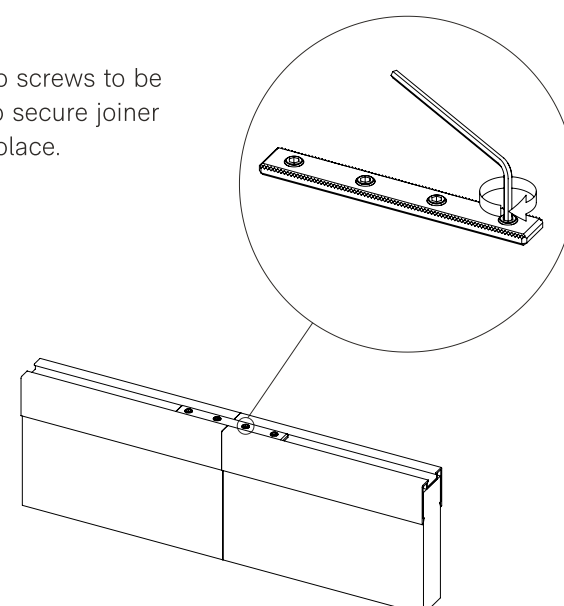
NOTE: A gap smaller than 1/16" will be present between the extrusions.



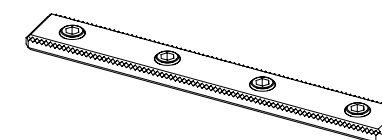
Both joiners are compatible with all extrusion sizes.



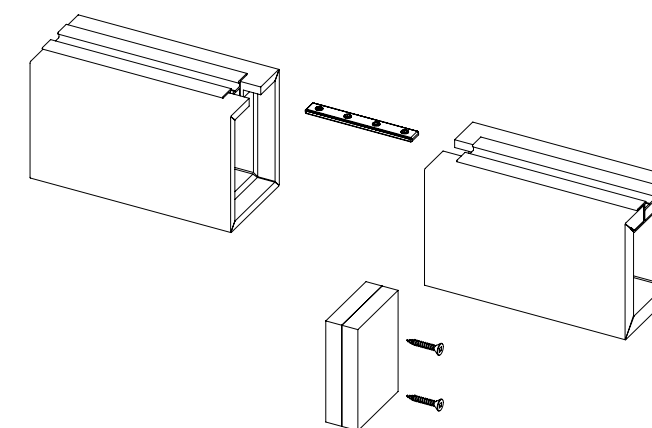
NOTE: Grub screws to be tightened to secure joiner in place.



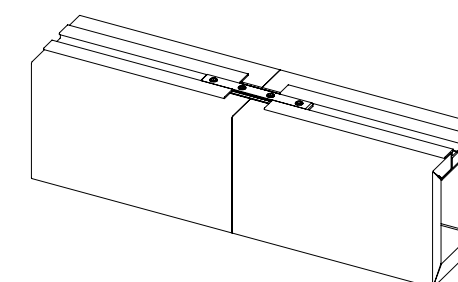
RAFHDCC

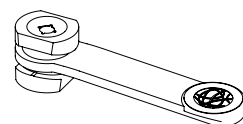


Heavy duty diecast connector with 4x grub screws used to join cross rails and/or suspended rails.

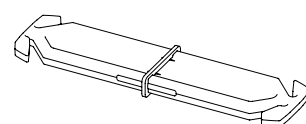


NOTE: In addition to joiner, screw the end caps together to create a cleaner join.

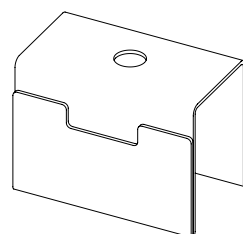




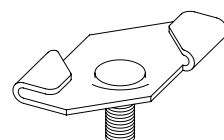
RAFTCC
Autex Mounting Clip



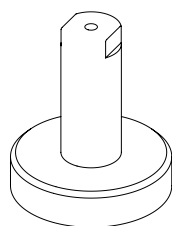
RAFCCT
Autex Frontier Channel Connector



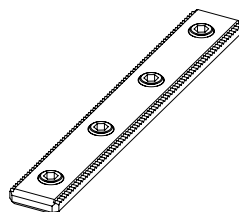
RAFWCP
Autex Removable W-Clip



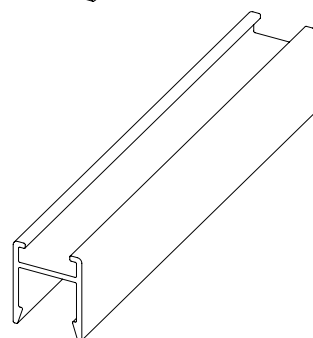
RAFM6GC
1" Ceiling Grid Connector with
M6 Thread



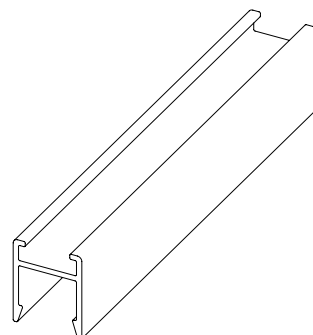
RAFM6MP
Magnet Pot with M6 Thread and Cable
Adaptor



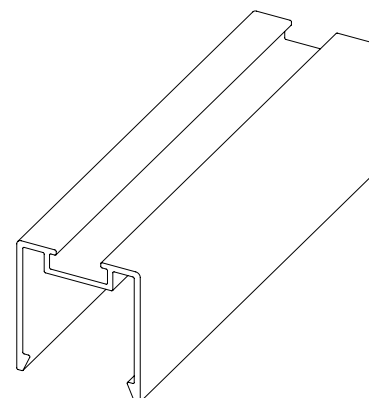
RAFHDCC
Autex Heavy Duty Frontier
Channel Connector with
4x M5 Grub Screws



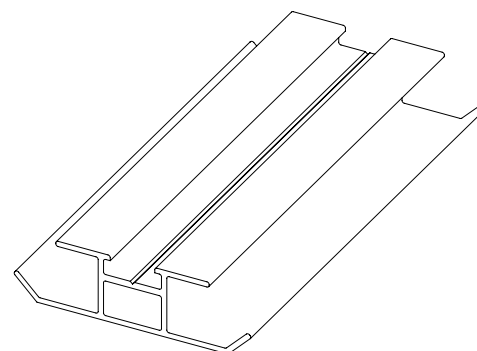
RAFNEX
Frontier 3/8" Extrusion



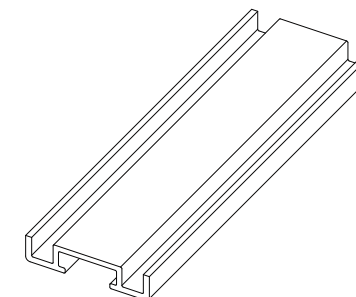
RAFNEX
Frontier 1/2" Extrusion



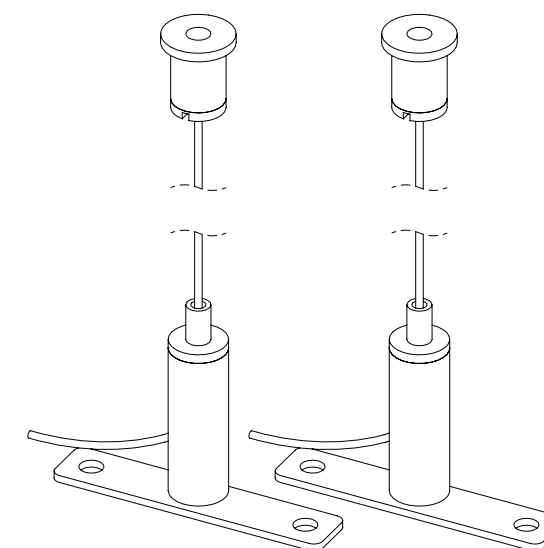
RAFNEX24
Frontier 1" Extrusion



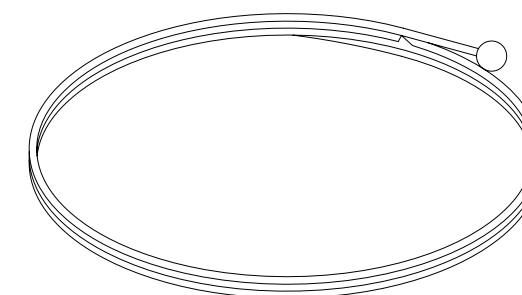
RAFNEXRT
Frontier Raft Extrusion



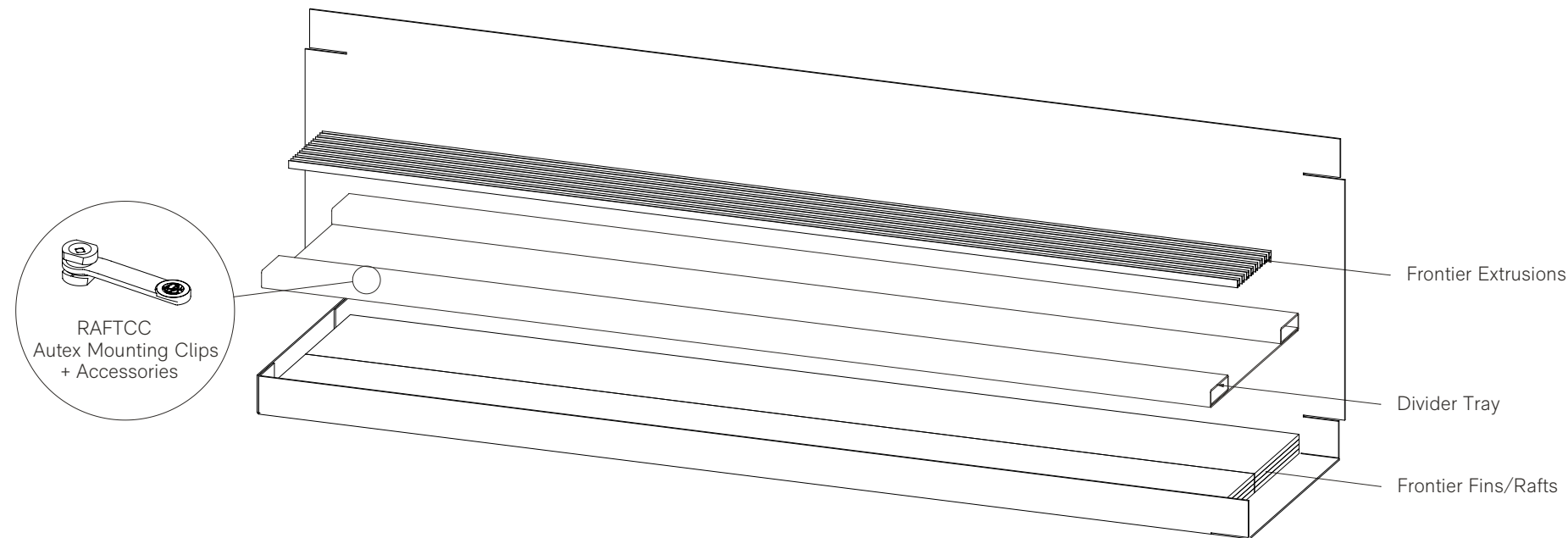
RATLP24
Frontier Low Profile Extrusion



RAHVAS
Autex Adjustable
Suspension Set 78" cable -
Channel Connection



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"	1/2"	4"	4"	24	24	48	24	72
	108"	1/2"	6"	6"	16	16	32	16	72
	108"	1/2"	8"	8"	12	12	24	12	72
	108"	1/2"	12"	12"	8	8	16	8	72
	108"	1"	4"	4"	24	24	48	24	72
	108"	1"	6"	6"	16	16	32	16	72
	108"	1"	8"	8"	12	12	24	12	72
	108"	1"	12"	12"	8	8	16	8	72
WAVE/DRAPE/ RIPPLE/GLIDE	108"	3/8"	6"	6"	16	16	32	16	72
	108"	1/2"	6"	6"	16	16	32	16	72
	108"	1"	6"	6"	16	16	32	16	72
DUNE/SIERRA/TALUS	108"	3/8"	12"	12"	8	8	16	8	72
	108"	1/2"	12"	12"	8	8	16	8	72
	108"	1"	12"	12"	8	8	16	8	72
AXIS	94 1/2"	1/2"	6"	12"	16	8	16	N/A	62
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