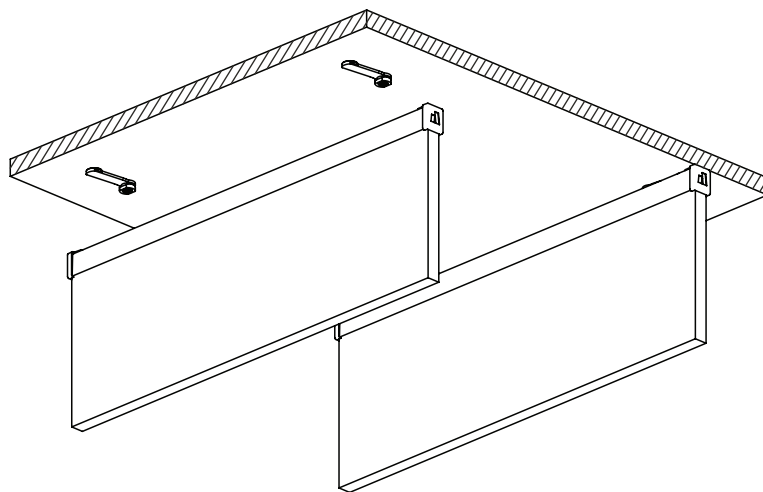


THE FIRST CONSIDERATION TO MAKE WHEN SPECIFYING A FRONTIER SYSTEM IS THE INSTALLATION METHOD.

1. DIRECT FIXED TO CEILING

SEE PAGE 2

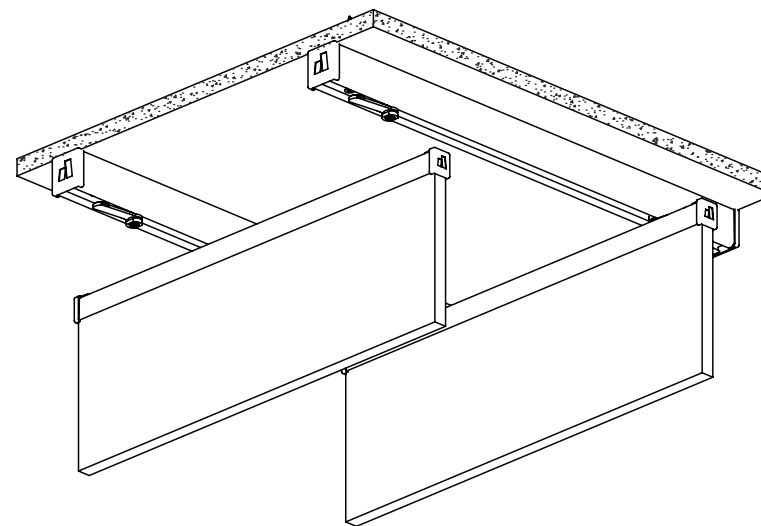


PACK INCLUDES
Autex Mounting Clips
Autex Frontier Extrusions
Autex Frontier Fins/Rafts

NOT SUPPLIED
Fasteners (to substrate)

2. DIRECT FIXED TO RAILS

SEE PAGE 3



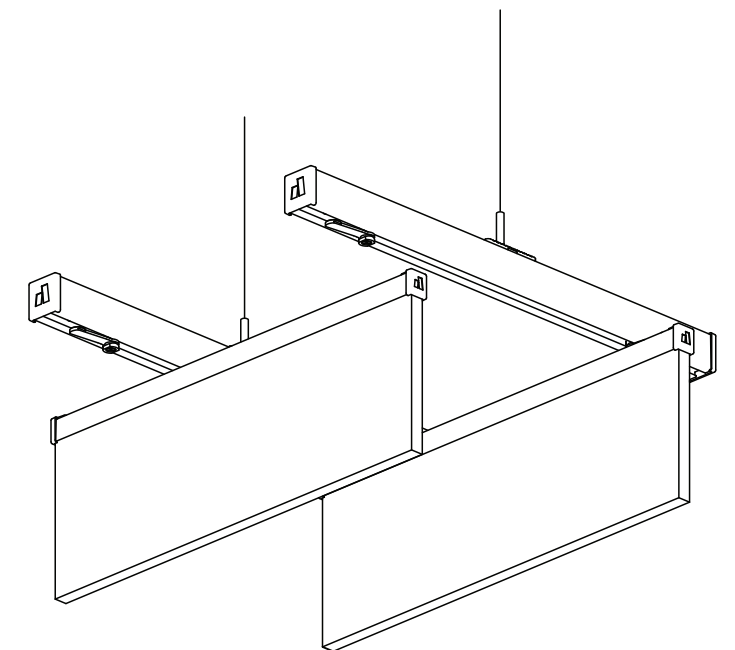
PACK INCLUDES
Autex Mounting Clips
Autex Frontier Extrusions
Autex Frontier Fins/Rafts

ADDITIONAL COMPONENTS REQUIRED
Autex Frontier Cross Rails x2

NOT SUPPLIED
Fasteners (to substrate)

3. SUSPENDED RAILS

SEE PAGE 4



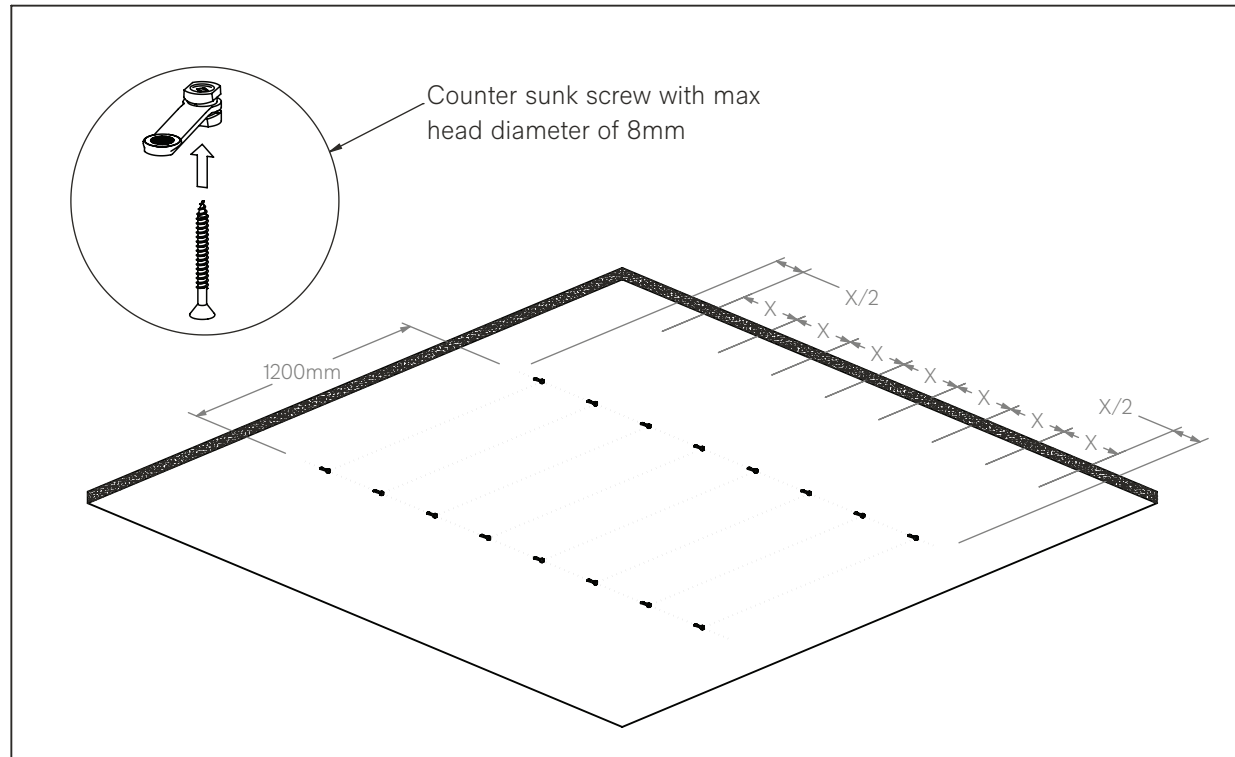
PACK INCLUDES
Autex Mounting Clips
Autex Frontier Extrusions
Autex Frontier Fins/Rafts

ADDITIONAL COMPONENTS REQUIRED
Autex Frontier Cross Rails x2
Autex W-Clips

NOT SUPPLIED
Fasteners (to substrate)
M6 Threaded Rod
M6 Back Plates to ceiling

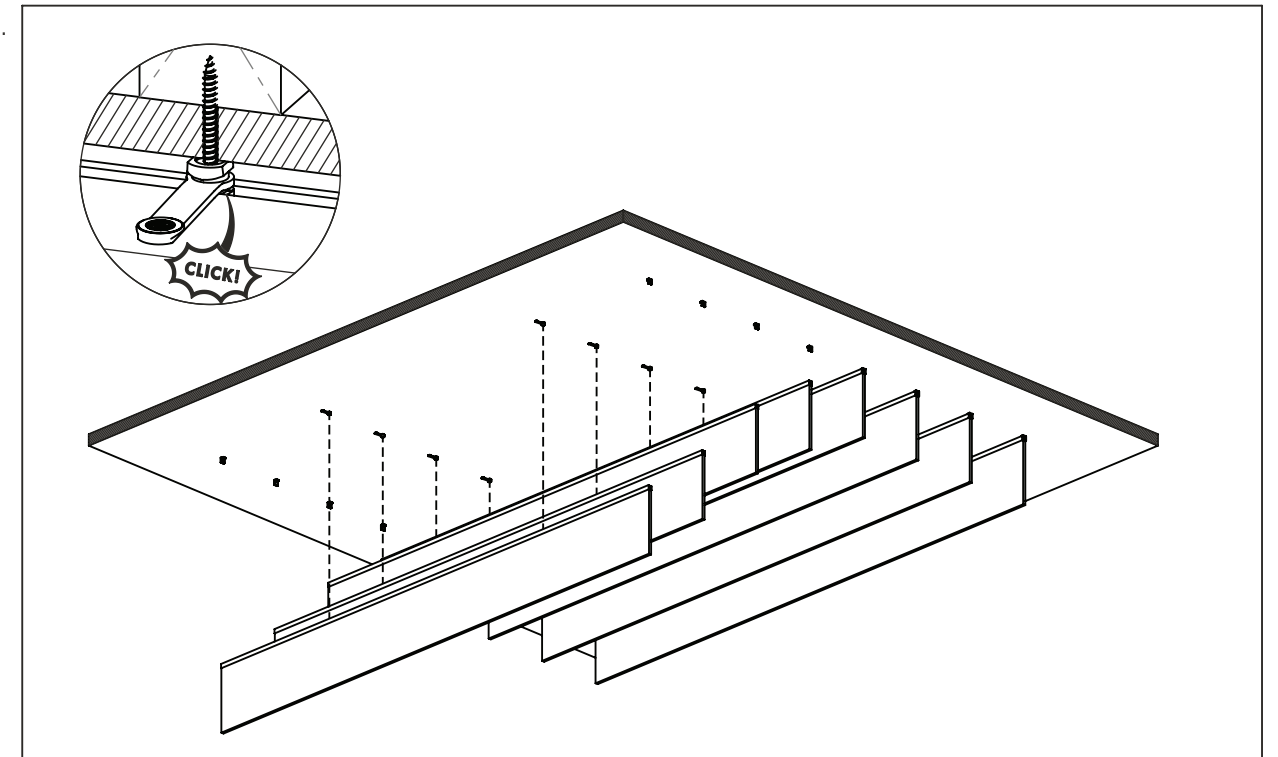
For suspended installations it is strongly recommended to consult a building engineer for seismic considerations. See **page 11** for suggested details.
For all installations in sprinklered buildings, consult a fire engineer to ensure the intended position of the Frontier Fins/Rafts meet sprinkler and alarm standards.
Further detail on the fire standards can be found in the supplemental document "Fire Considerations for Autex Frontier Acoustic Fins".

1.



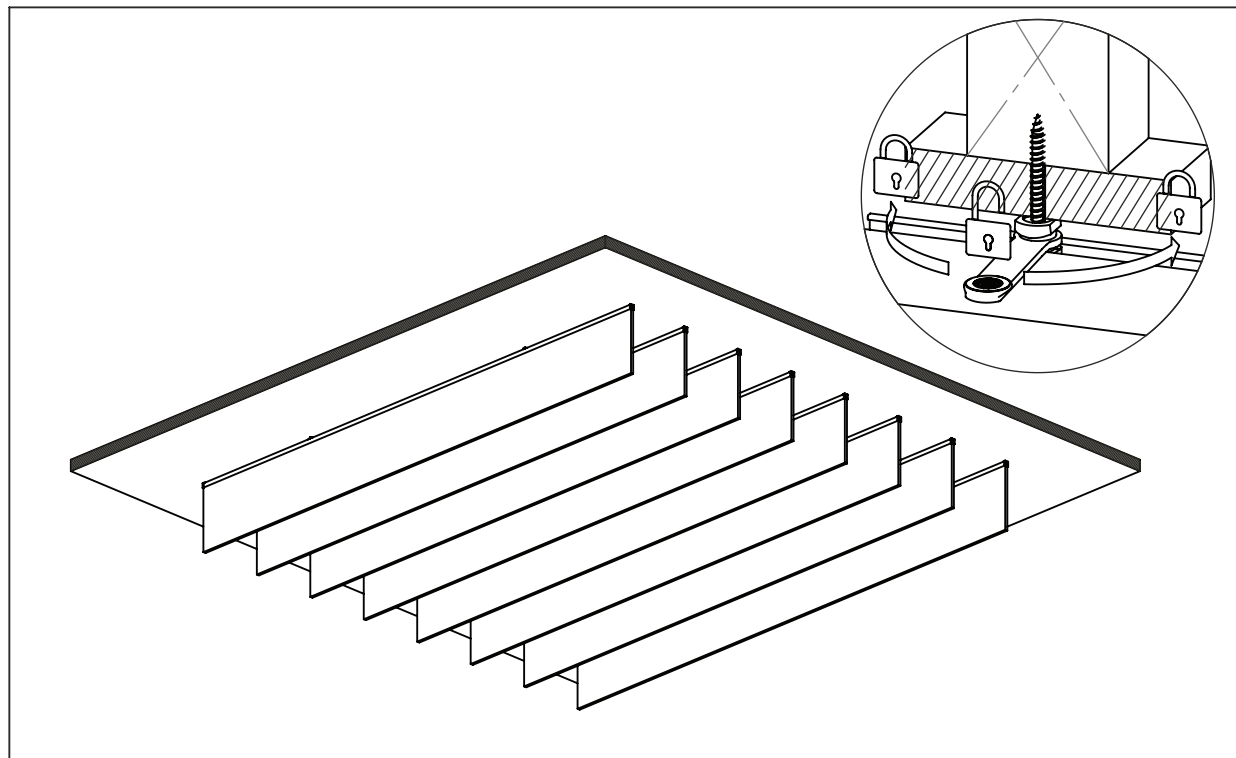
Mark out your ceiling at the recommended spacing for your chosen product (refer to table on page 29 for details). Screw the Autex Mounting Clips into the ceiling using screws suitable for the substrate (not supplied).

2.

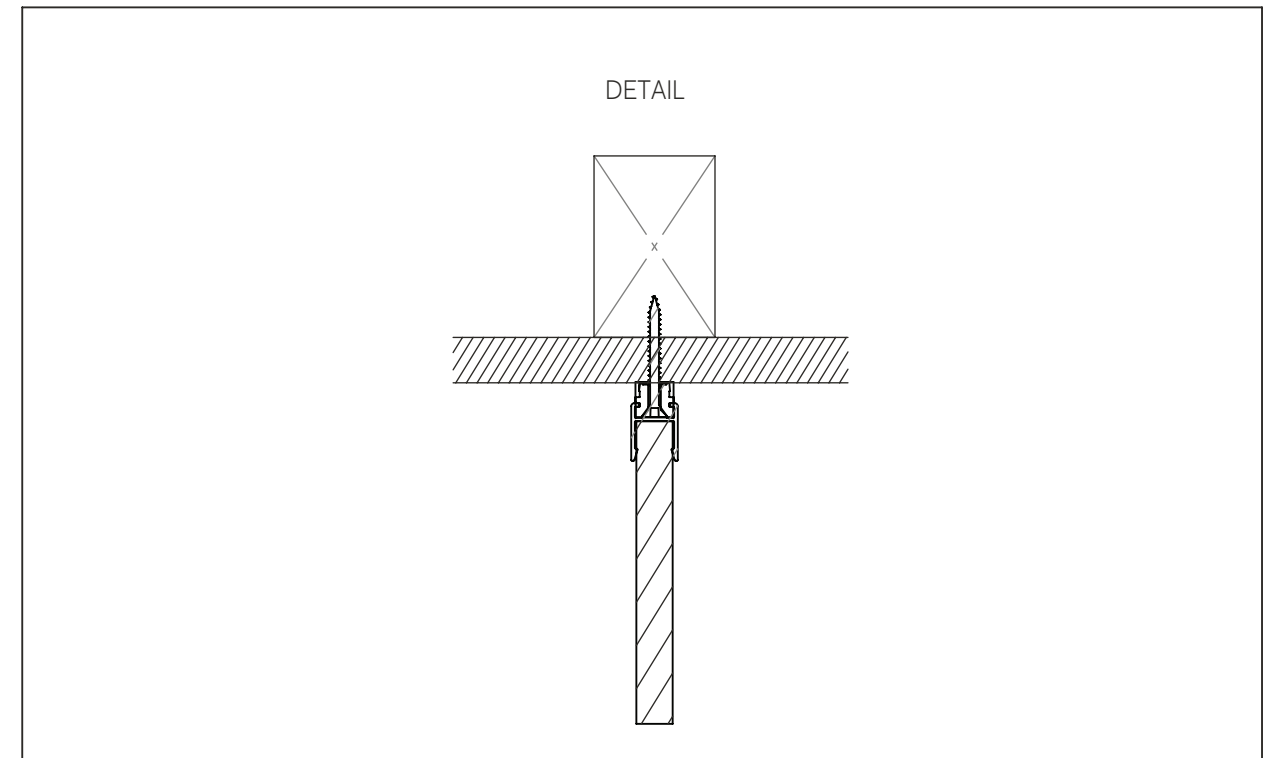


Lift the assembled Fins/Rafts into place and click them onto the Autex Mounting Clips. Turn the clips 45° to temporarily hold the Fin/Raft in place while allowing adjustment along the length.

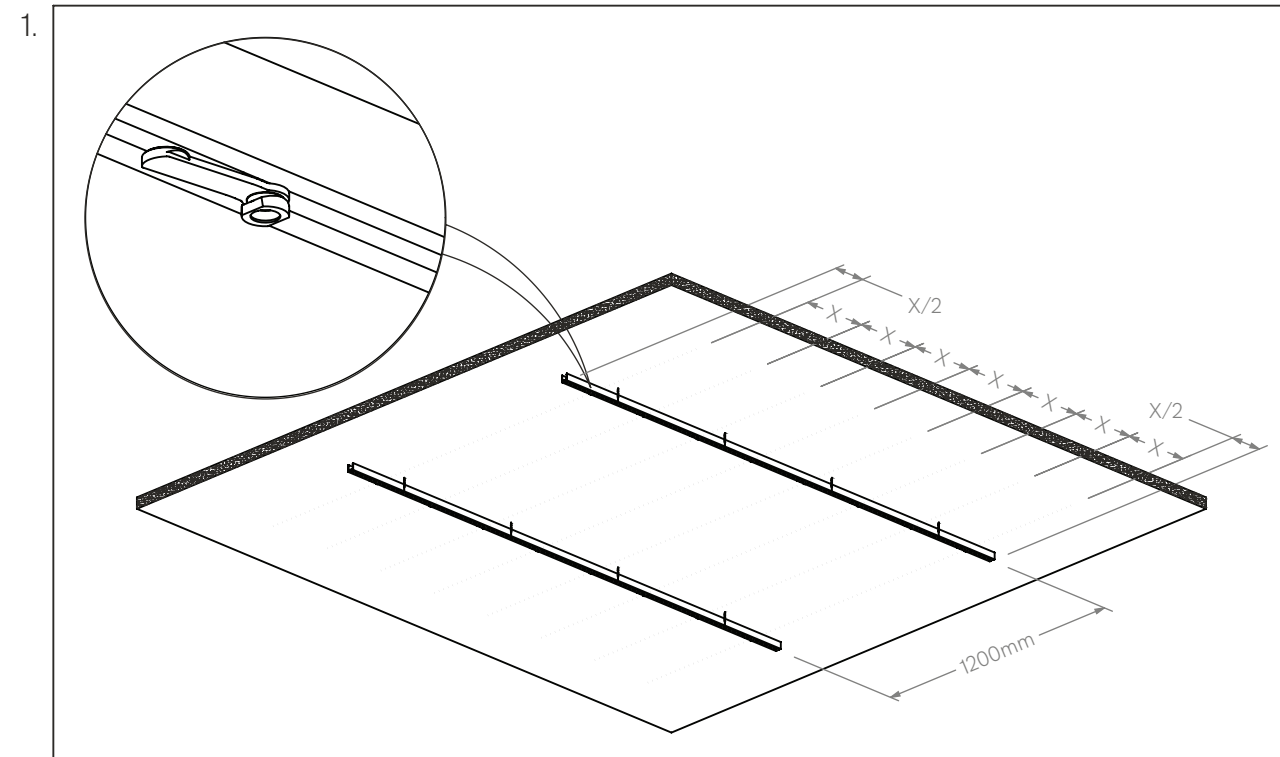
3.



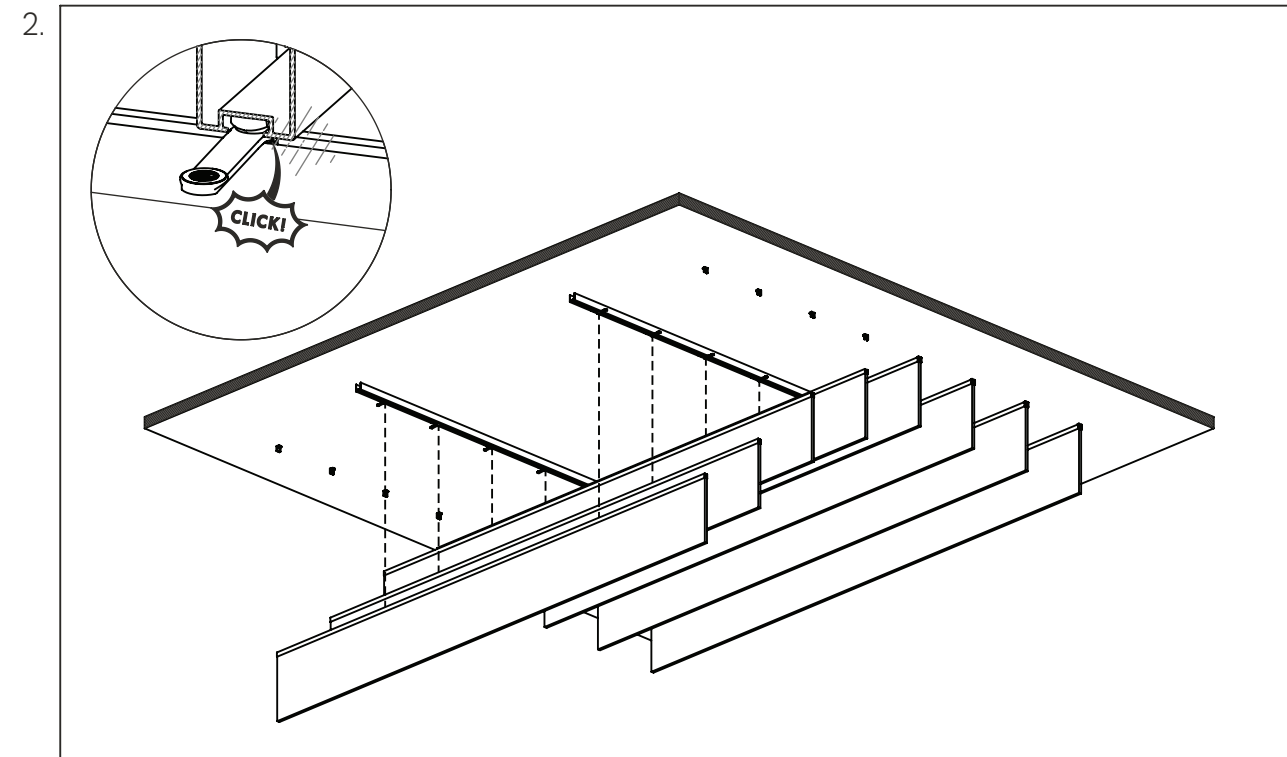
When you are satisfied with the alignment of the Fins/Rafts turn the clips 90° so they clip into the channel and lock in place.



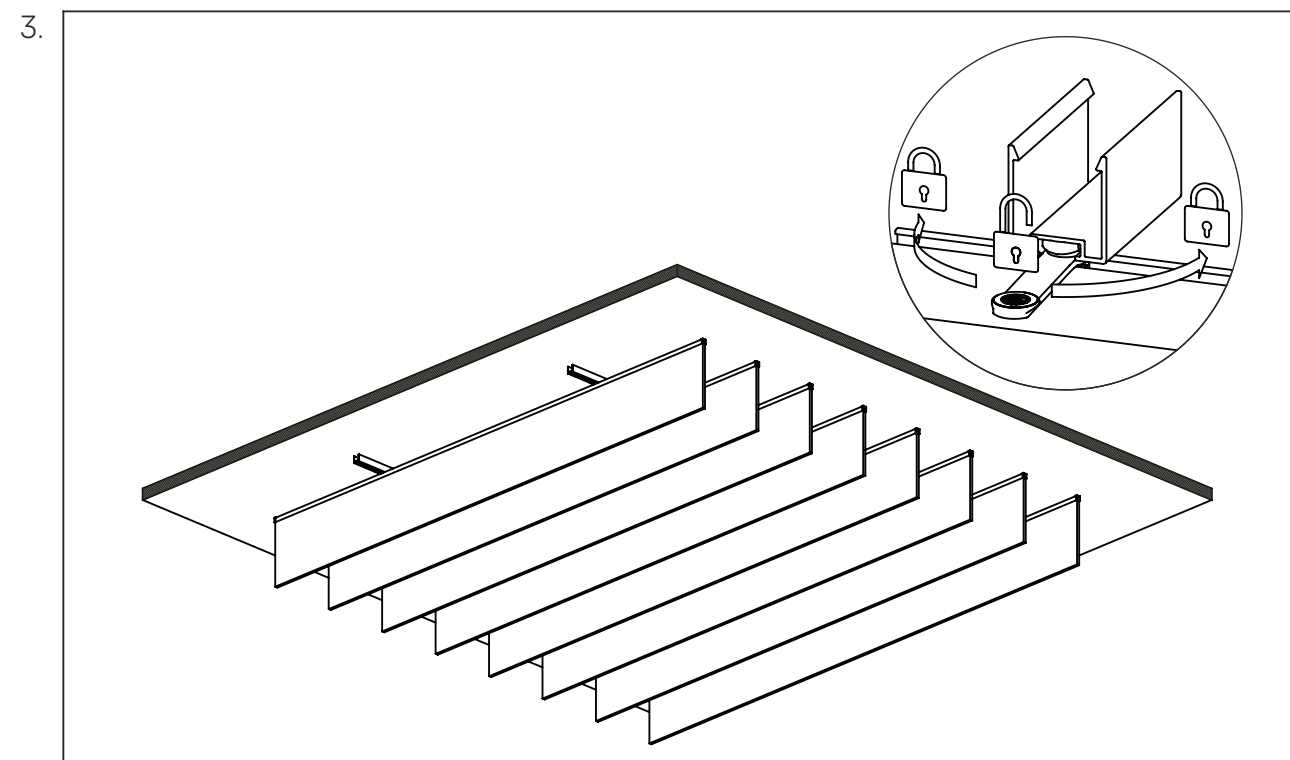
Ensure suitable fastener for the clip and substrate is used (not supplied).



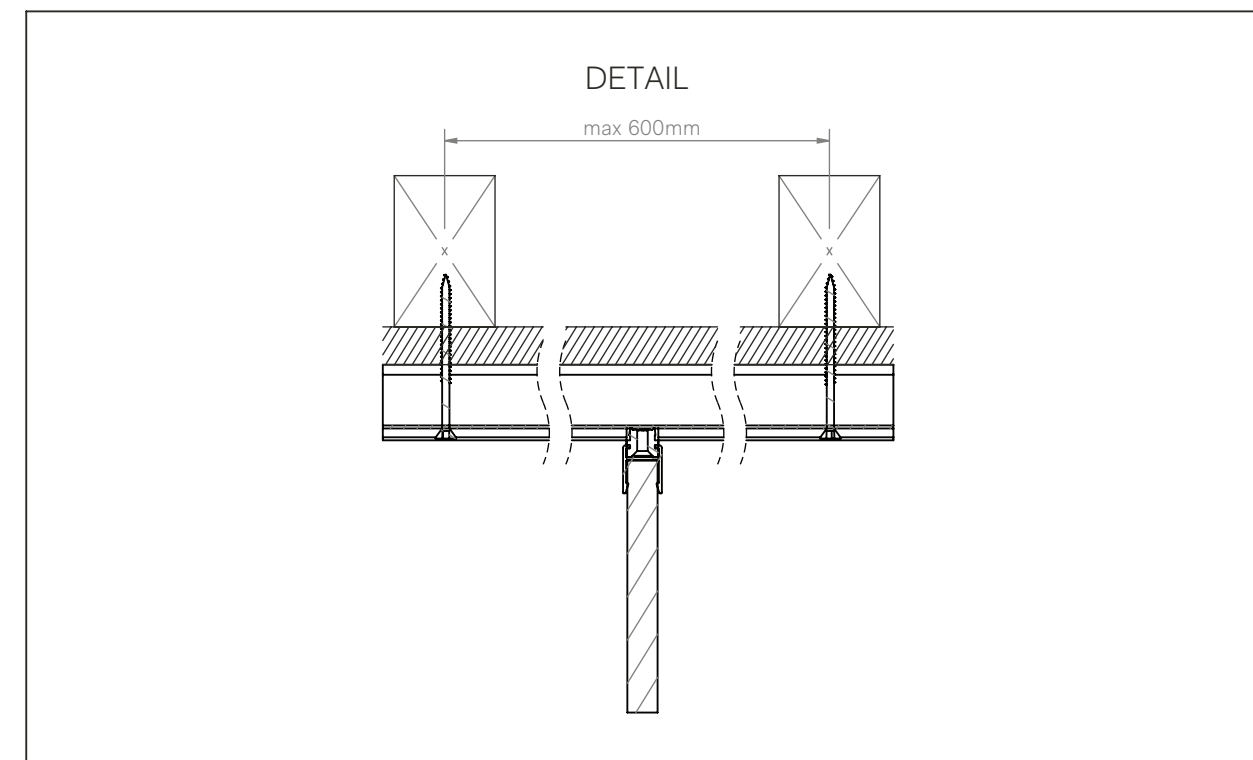
Mark out the ceiling and screw in 2x cross rails at 1200mm centres using screws suitable for the substrate (not supplied) at max centres of 600mm. Insert the Autex Mounting Clips at the desired fin spacing. Fin spacing can be marked on the cross rails prior to installation. (Refer to table on page 29 for details).



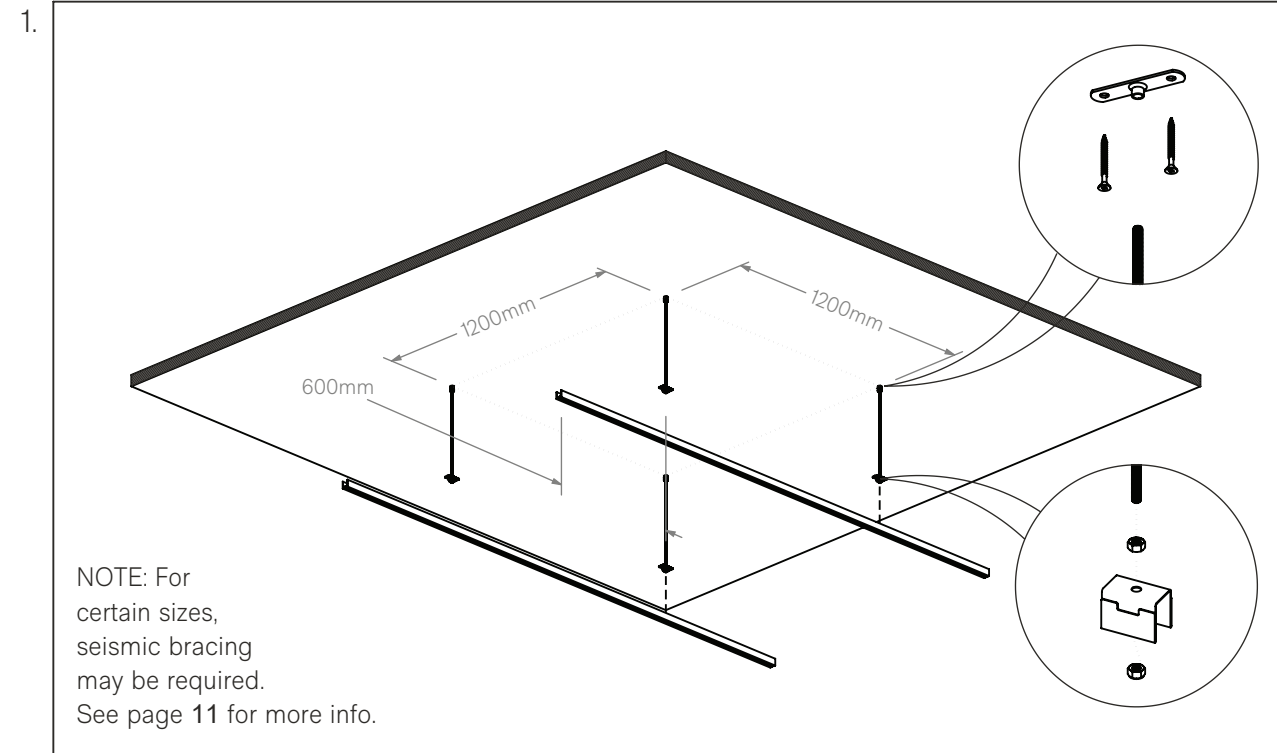
Lift the assembled Fins/Rafts into place and click them onto the Autex Mounting Clips. Turn the clips 45° to temporarily hold the Fin/Raft in place while allowing adjustment along the length.



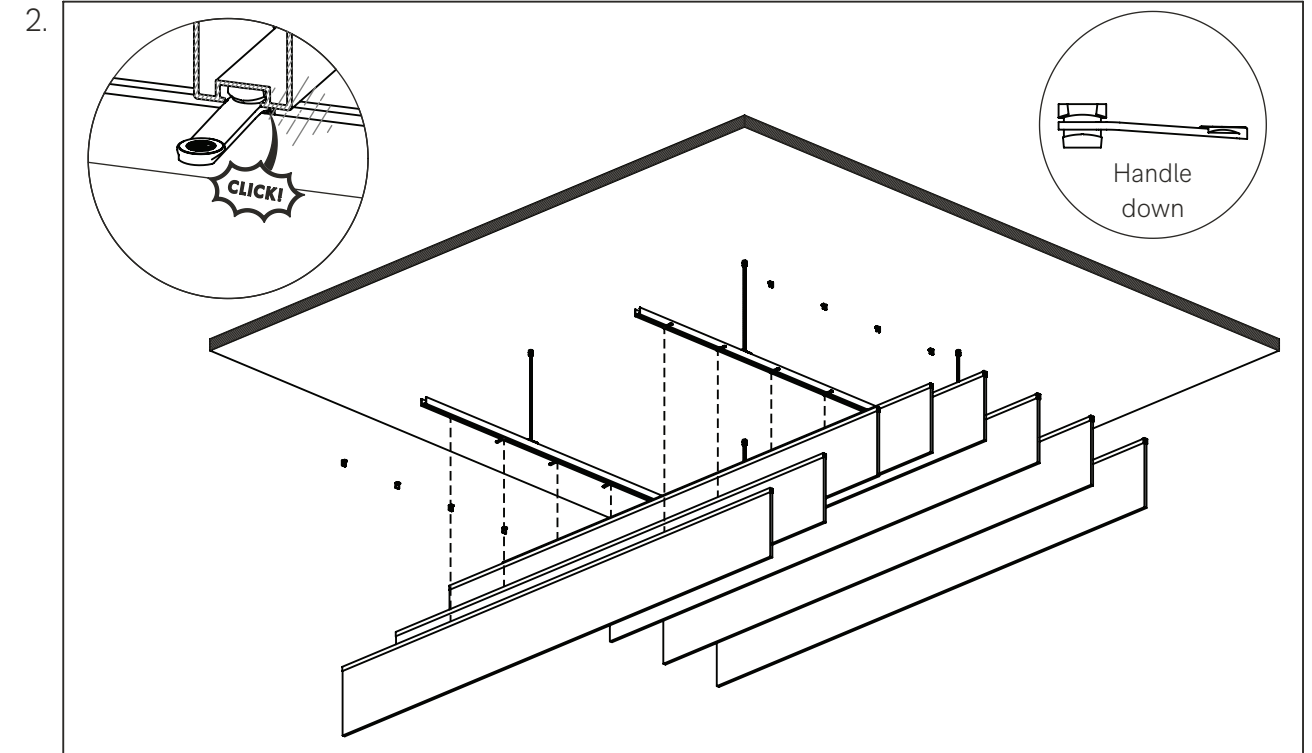
When you are satisfied with the alignment of the Fins/Rafts turn the clips 90° so they clip into the channel and lock in place.



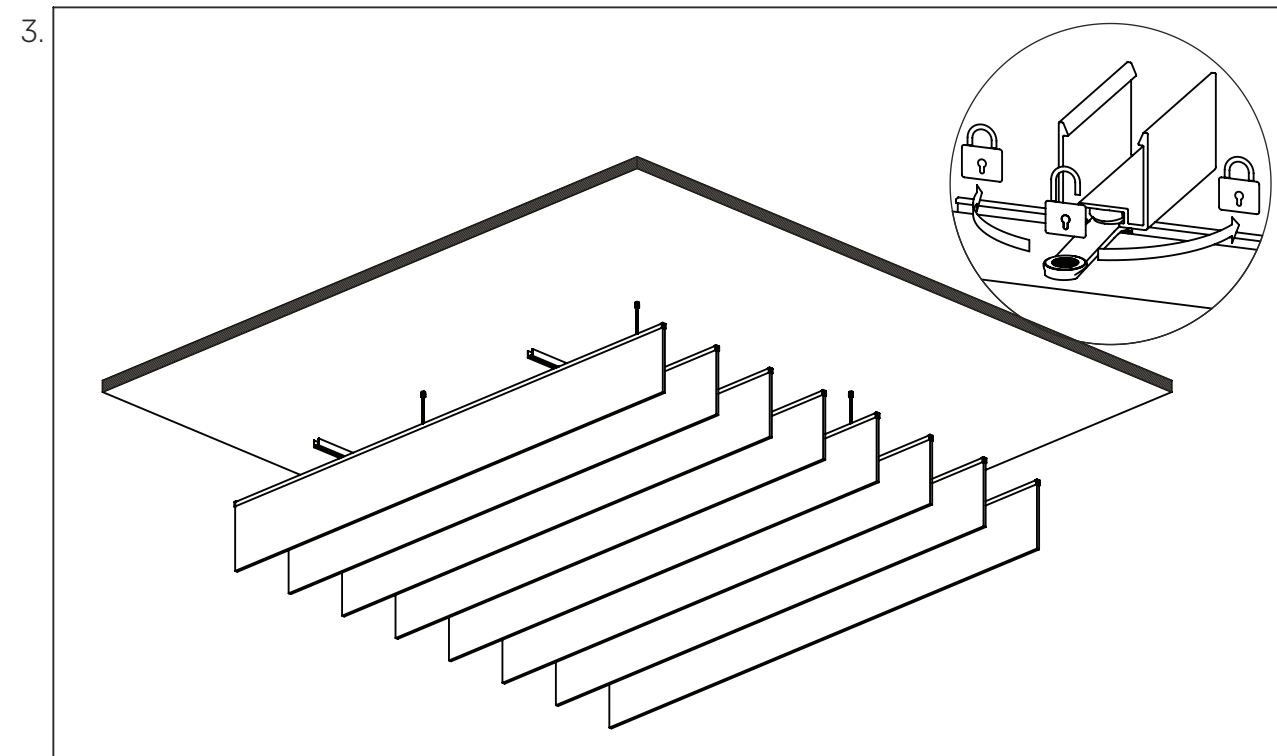
Ensure suitable fastener for the clip, rail and substrate is used. For additional security, the Autex Mounting Clips can be screwed into the cross rail.



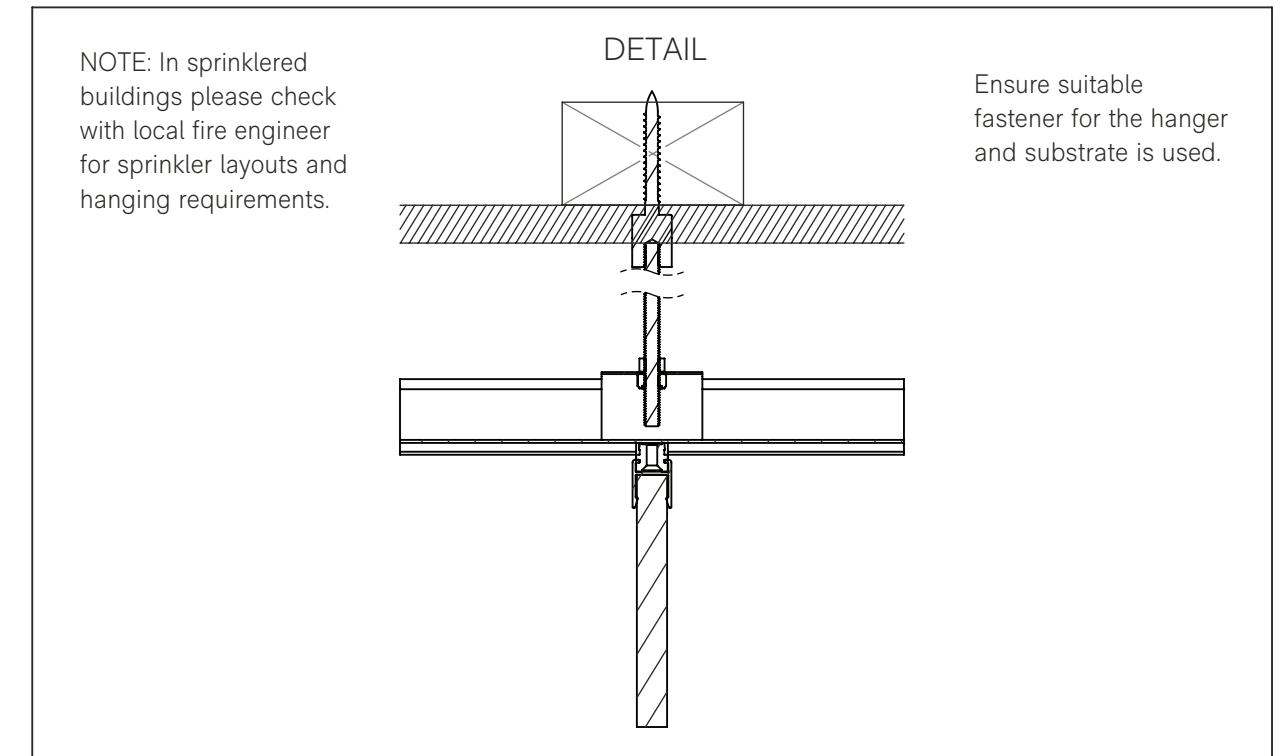
Mark out the ceiling and screw in 4x backing plates suitable for M6 threaded rod in a 1200mm x 1200mm square using screws suitable for the substrate (not supplied). Fin spacing can be marked on the cross rails prior to being clipped onto the Removable W-Clips. (Refer to table on page 29 for details).



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.

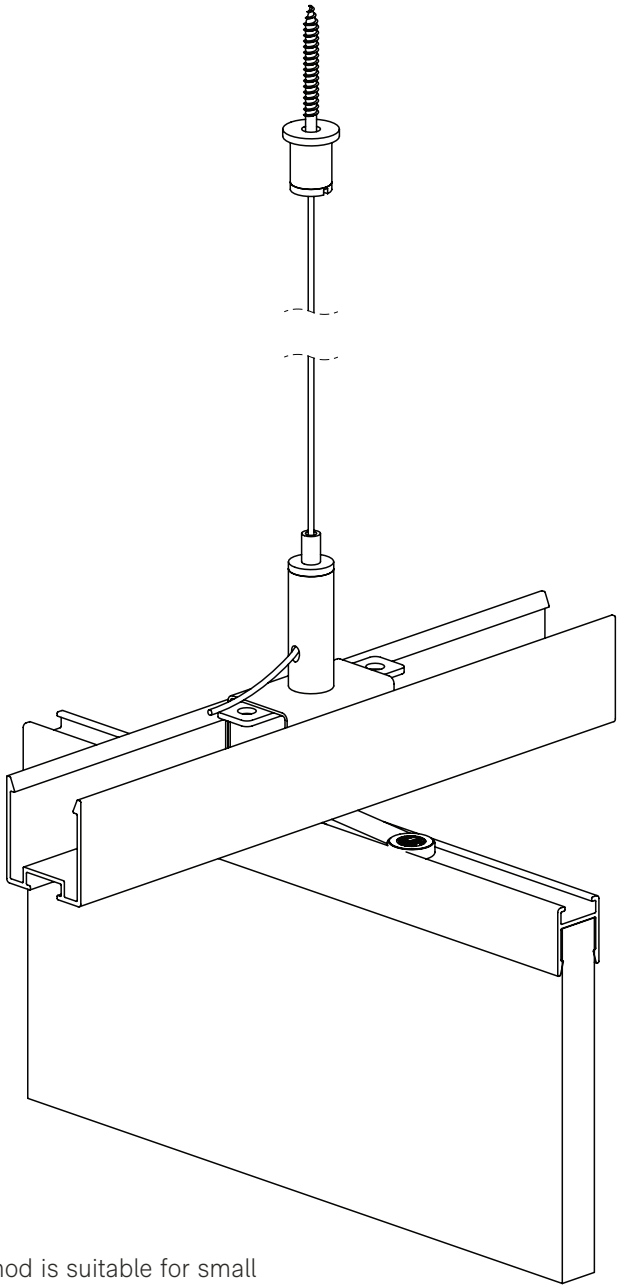


When you are satisfied with the alignment of the Fins/Rafts turn the clips 90° so they clip into the channel and lock in place.

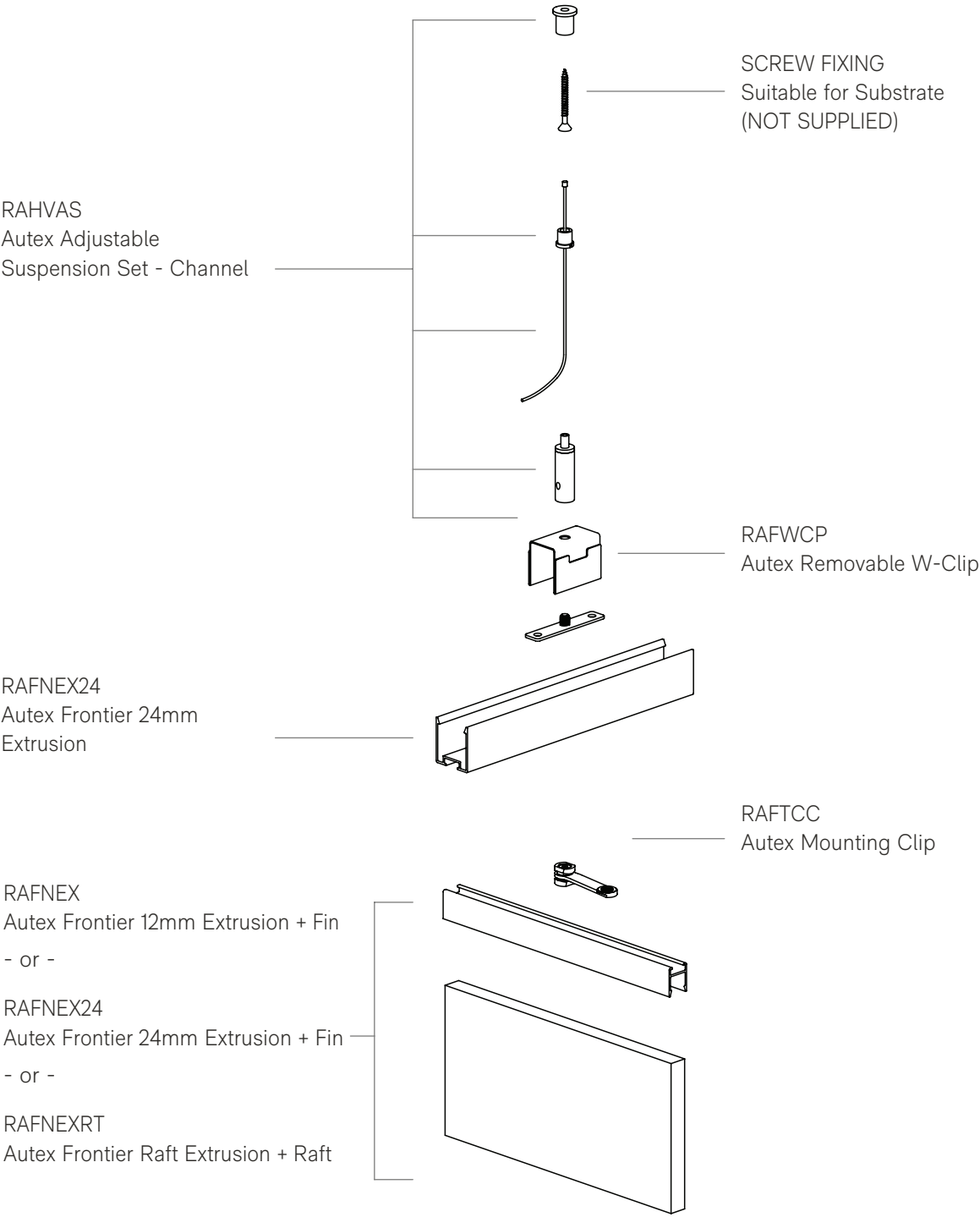


PLEASE NOTE, the threaded rod and backing plate suspension method is the default option for large installations. As these parts are supplied by a third party, please see your account manager for preferred supplier in your territory. For smaller installations, adjustable cable hangers are available from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

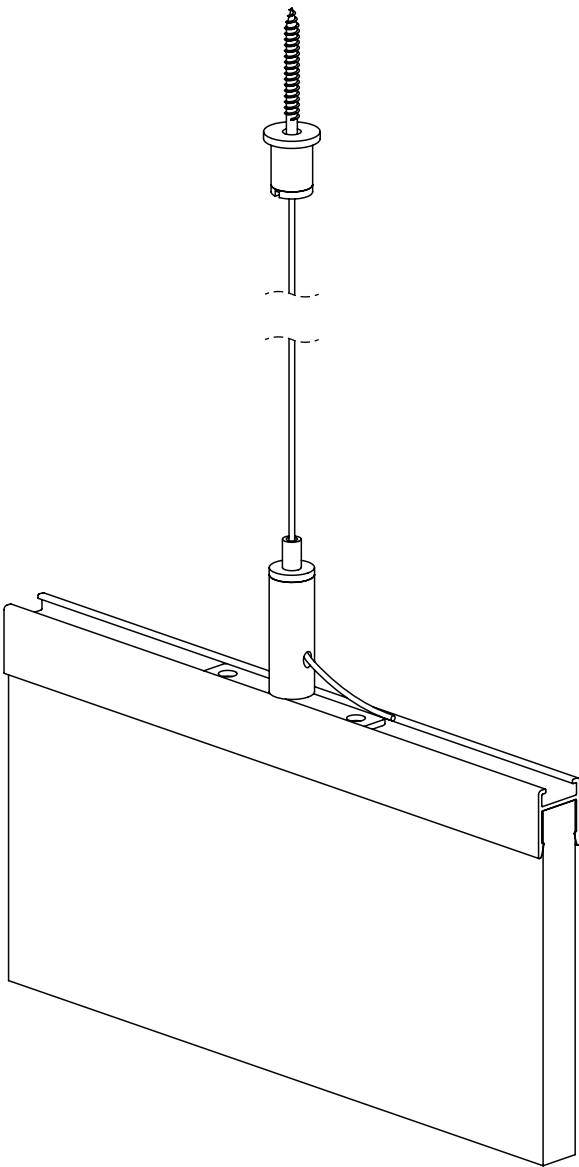
| Suggested Ceiling Fixing Detail | | |
|---------------------------------|-------------------------------|-------------------|
| Substrate | Fixing | Minimum Embedment |
| Concrete | Hilti-HUS3-HR6 | 40mm |
| Steel | Stainless Steel 8G Tek Screw | 0.55mm |
| Timber | Stainless Steel 8G Wood Screw | 30mm |



NOTE: This suspension method is suitable for small installations only.
For larger installations refer to pages 7-11.



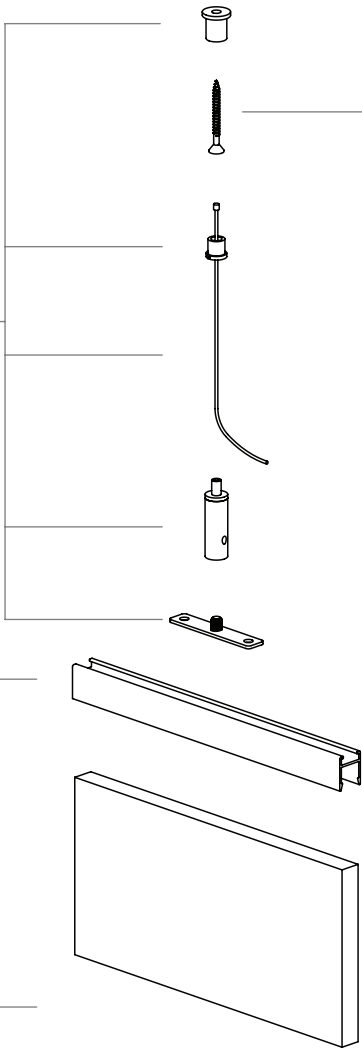
| Suggested Ceiling Fixing Detail | | |
|---------------------------------|-------------------------------|-------------------|
| Substrate | Fixing | Minimum Embedment |
| Concrete | Hilti-HUS3-HR6 | 40mm |
| Steel | Stainless Steel 8G Tek Screw | 0.55mm |
| Timber | Stainless Steel 8G Wood Screw | 30mm |



RAHVAS
Autex Adjustable
Suspension Set - Channel

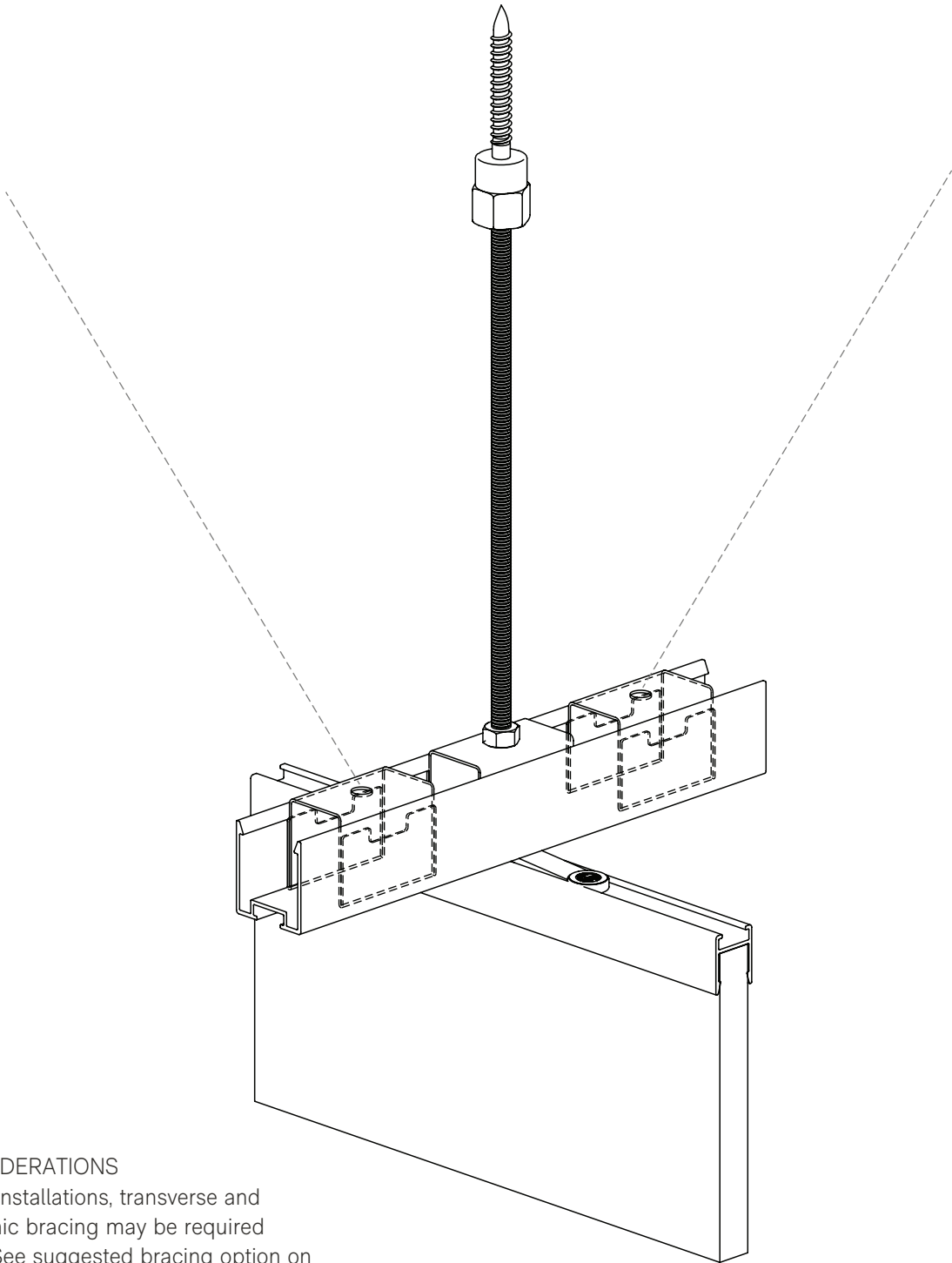
SCREW FIXING
Suitable for Substrate
(NOT SUPPLIED)

RAFLEX
Autex Frontier 12mm Extrusion + Fin
- or -
RAFLEX24
Autex Frontier 24mm Extrusion + Fin
- or -
RAFLEXRT
Autex Frontier Raft Extrusion + Raft

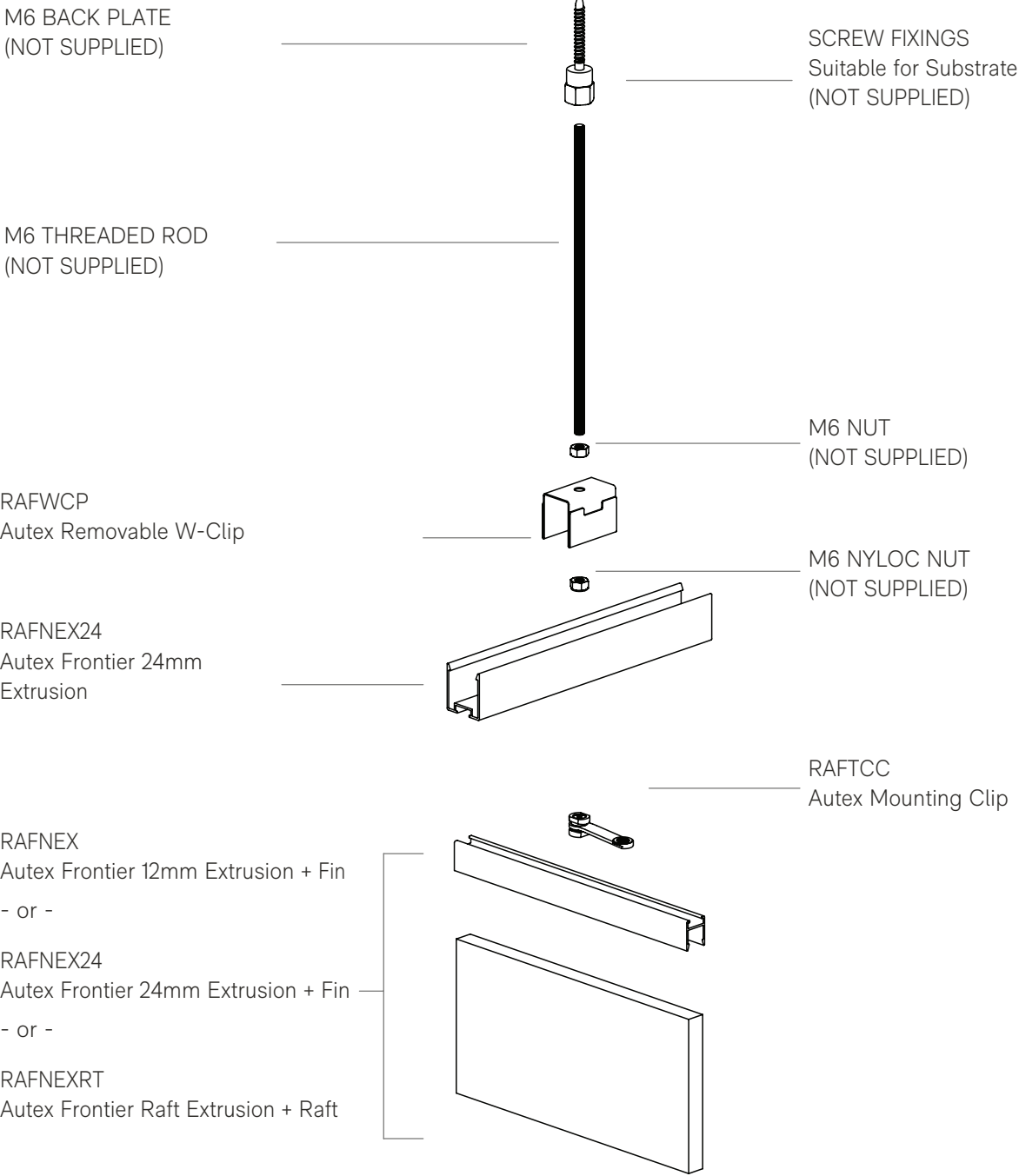


NOTE: This suspension method is
suitable for individual fins only.
Requires 1x RAHVAS set per fin.
For larger installations refer to pages 7-11.

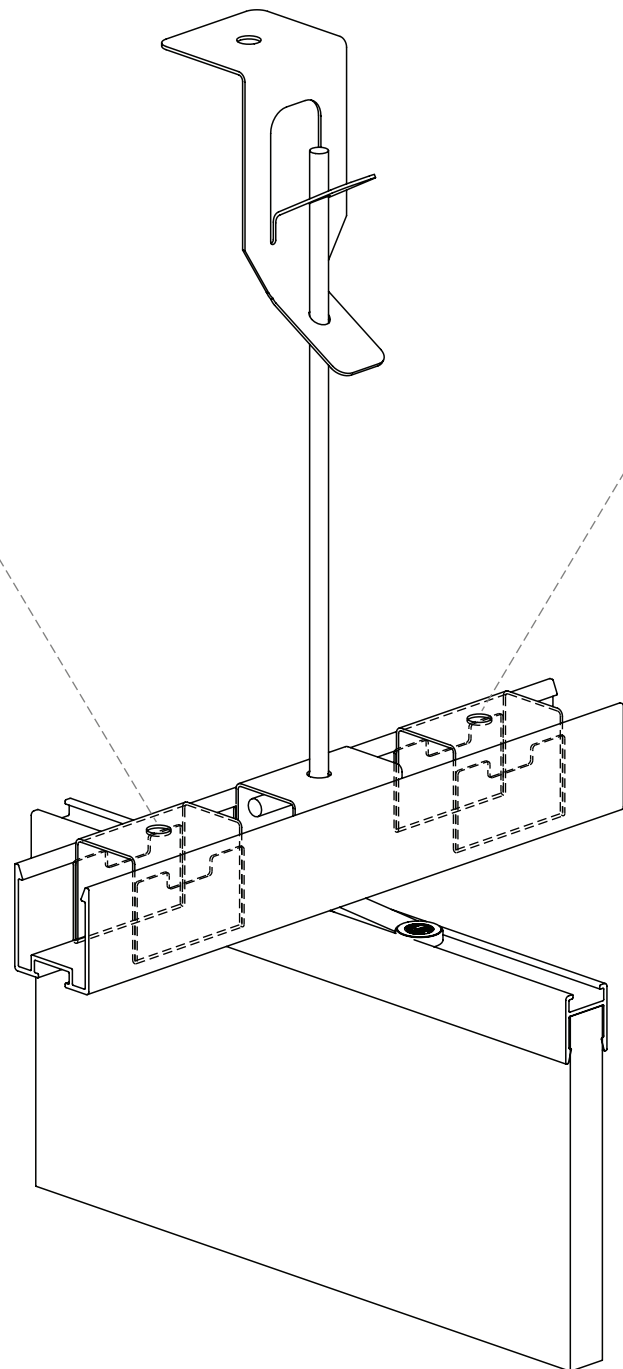
| Suggested Ceiling Fixing Detail | | |
|---------------------------------|-------------------------------|-------------------|
| Substrate | Fixing | Minimum Embedment |
| Concrete | Hilti-HUS3-HR6 | 40mm |
| Steel | Stainless Steel 8G Tek Screw | 0.55mm |
| Timber | Stainless Steel 8G Wood Screw | 30mm |



SEISMIC CONSIDERATIONS
For certain size installations, transverse and longitudinal seismic bracing may be required (dashed lines). See suggested bracing option on page 11.



| Suggested Ceiling Fixing Detail | | |
|---------------------------------|-------------------------------|-------------------|
| Substrate | Fixing | Minimum Embedment |
| Concrete | Hilti-HUS3-HR6 | 40mm |
| Steel | Stainless Steel 8G Tek Screw | 0.55mm |
| Timber | Stainless Steel 8G Wood Screw | 30mm |



SEISMIC CONSIDERATIONS
For certain size installations, transverse and longitudinal seismic bracing may be required (dashed lines). See suggested bracing option on page 11.

RONDO 121
5mm Soft Galvanised
Suspension Rod

RAFEX24
Autex Frontier 24mm
Extrusion

RAFEX
Autex Frontier 12mm Extrusion + Fin
- or -

RAFEX24
Autex Frontier 24mm Extrusion + Fin
- or -

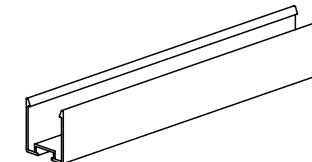
RAFEXRT
Autex Frontier Raft Extrusion + Raft



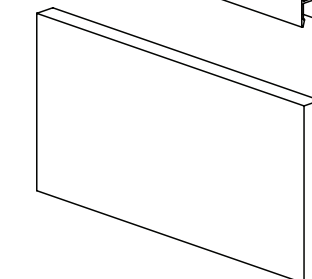
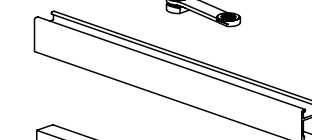
RONDO 547
Adjustable Suspension
Hanger



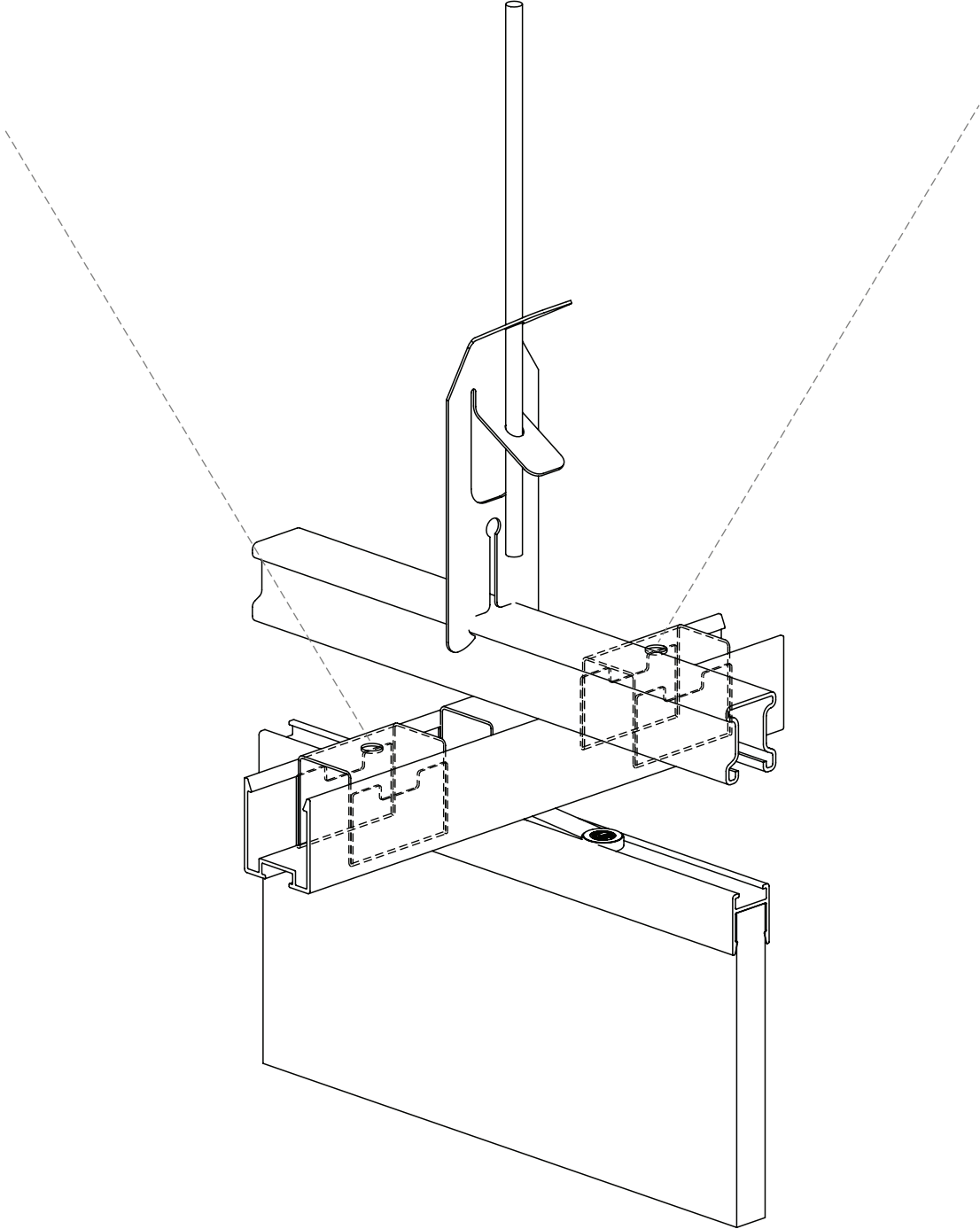
RAFWCP
Autex Removable
W-Clip



RAFTCC
Autex Mounting Clip



| Suggested Ceiling Fixing Detail | | |
|---------------------------------|-------------------------------|-------------------|
| Substrate | Fixing | Minimum Embedment |
| Concrete | Hilti-HUS3-HR6 | 40mm |
| Steel | Stainless Steel 8G Tek Screw | 0.55mm |
| Timber | Stainless Steel 8G Wood Screw | 30mm |



SEISMIC CONSIDERATIONS
For certain size installations, transverse and longitudinal seismic bracing may be required (dashed lines). See suggested bracing option on page 11.

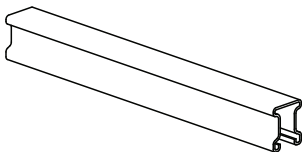
RONDO 121
5mm Soft Galvanised
Suspension Rod



RONDO 2534
Top Cross Rail Suspension
Clip



RONDO TCR 127
25mm Top Cross Rail



RONDO 119
U Clip



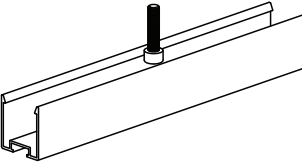
RAFWCP
Autex Removable
W-Clip



M6 X 20 SOCKET HEAD
CAP SCREW
(NOT SUPPLIED)



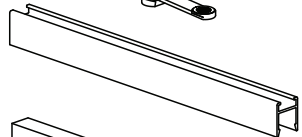
RAFEX24
Autex Frontier 24mm
Extrusion



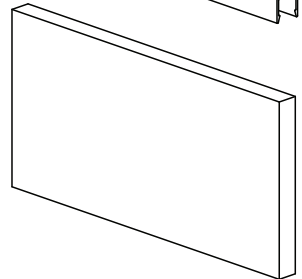
RAFTCC
Autex Mounting Clip



RAFEX
Autex Frontier 12mm Extrusion + Fin
- or -



RAFEX24
Autex Frontier 24mm Extrusion + Fin
- or -



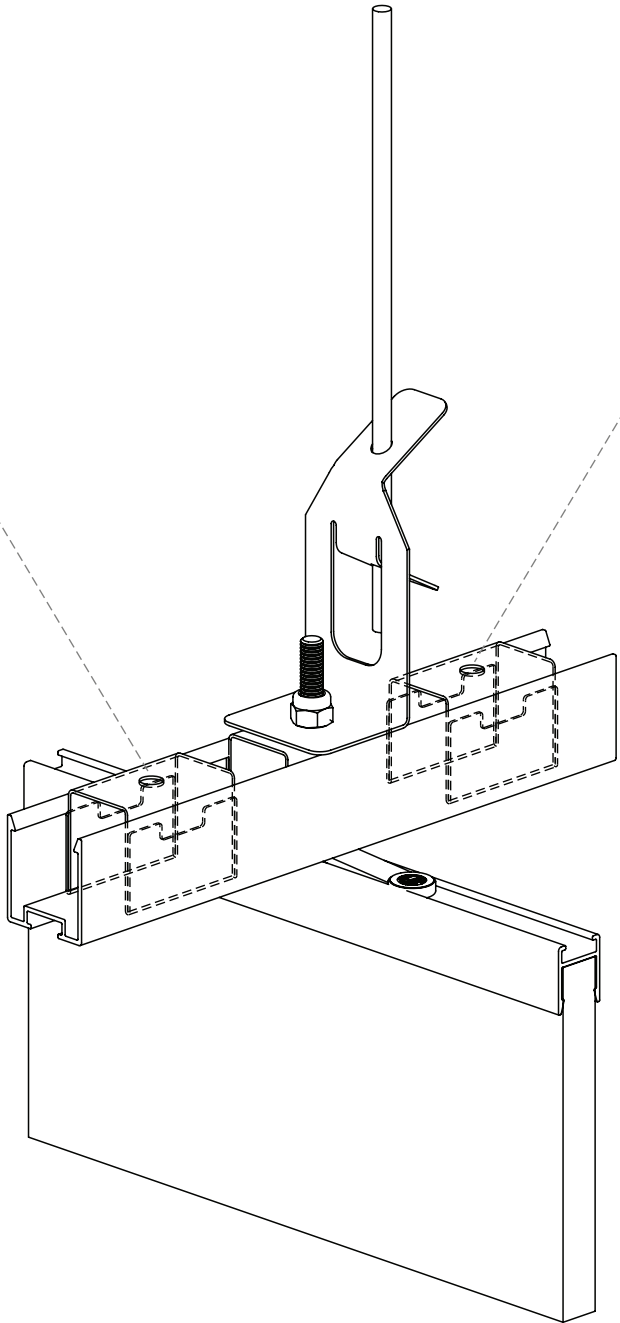
RAFEXRT
Autex Frontier Raft Extrusion + Raft



Frontier™ Install Instructions

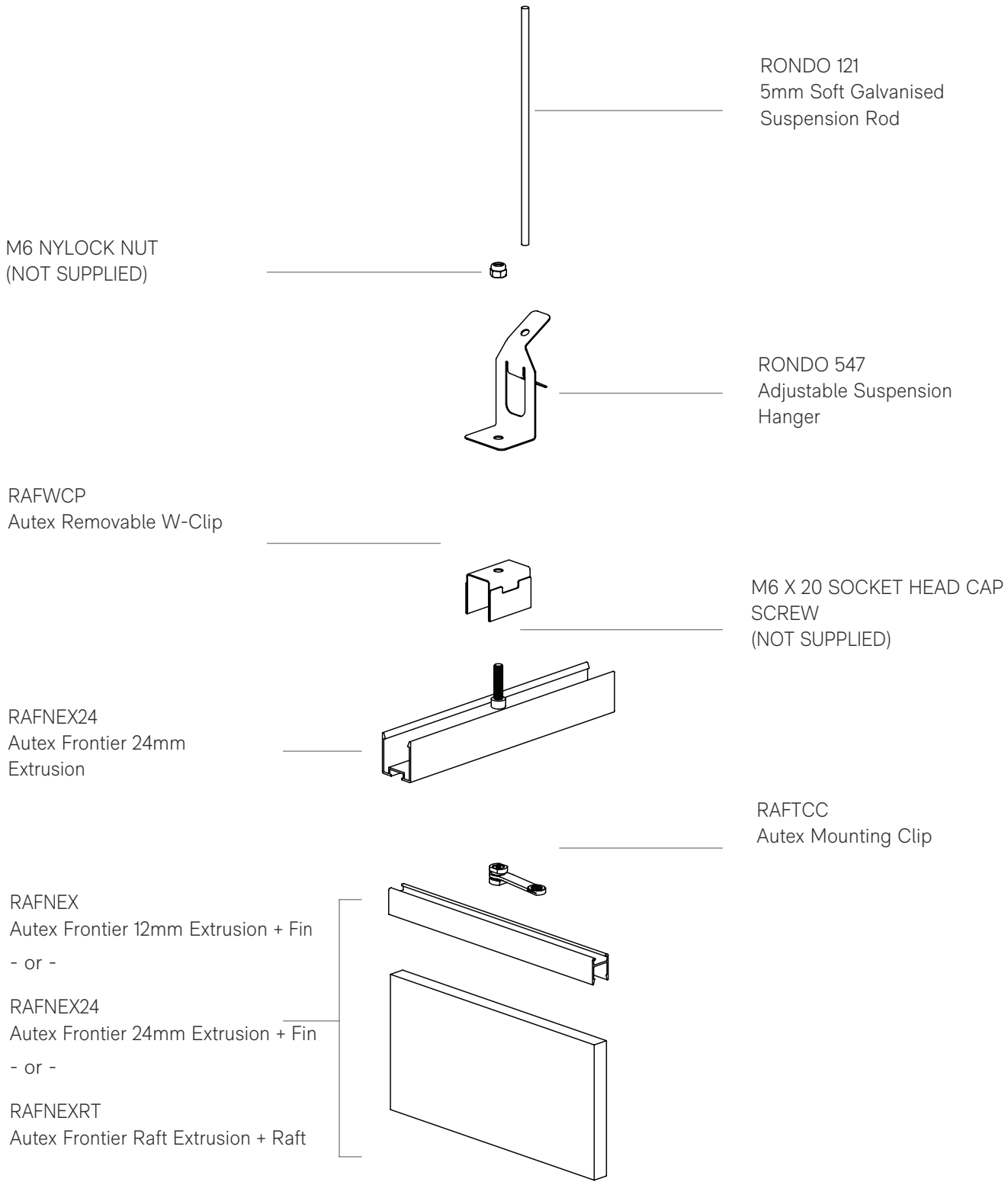
Rondo Suspension 3

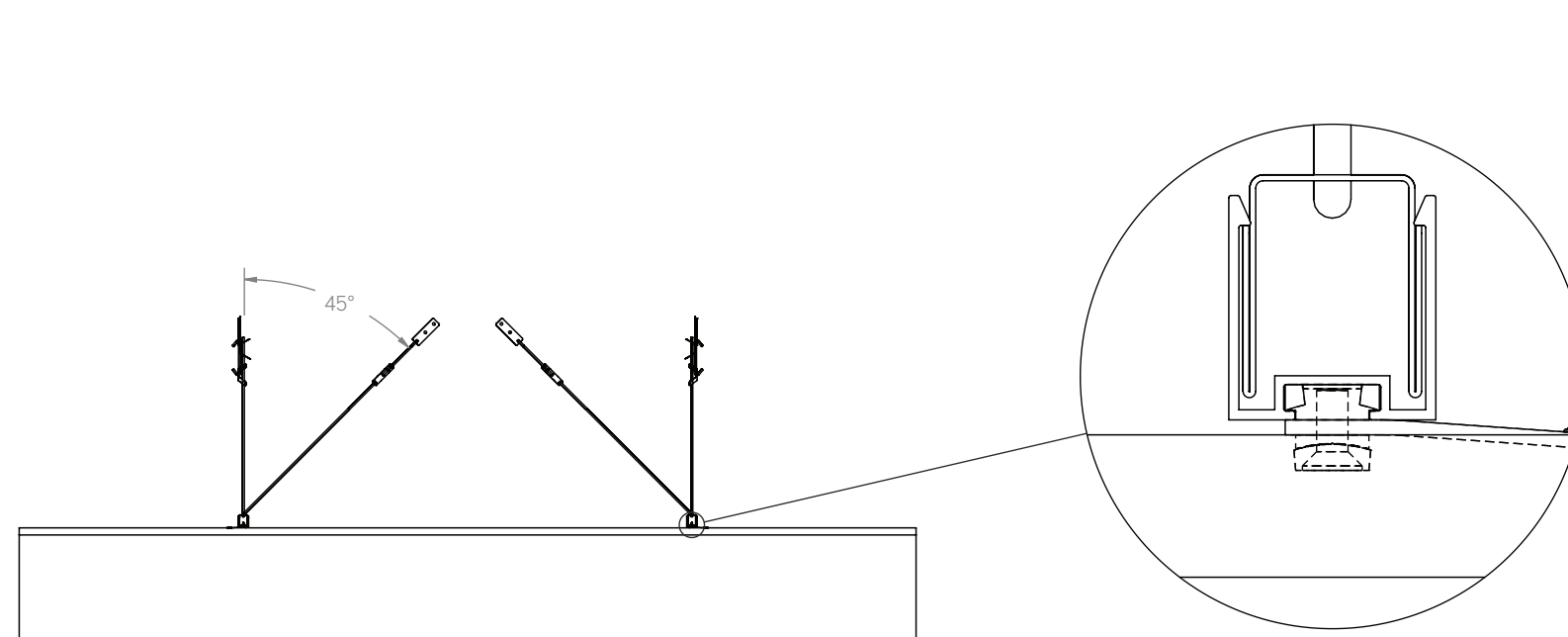
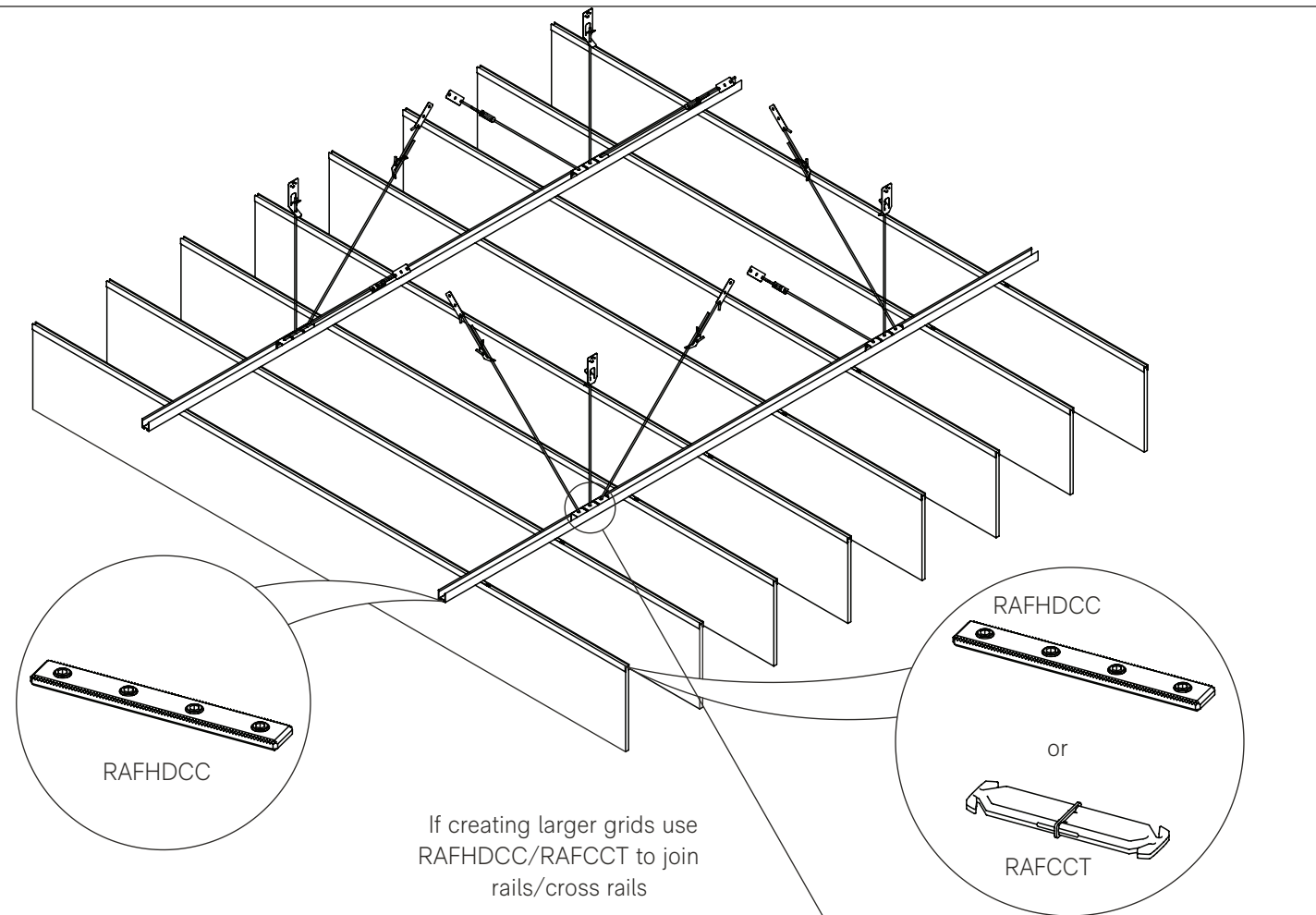
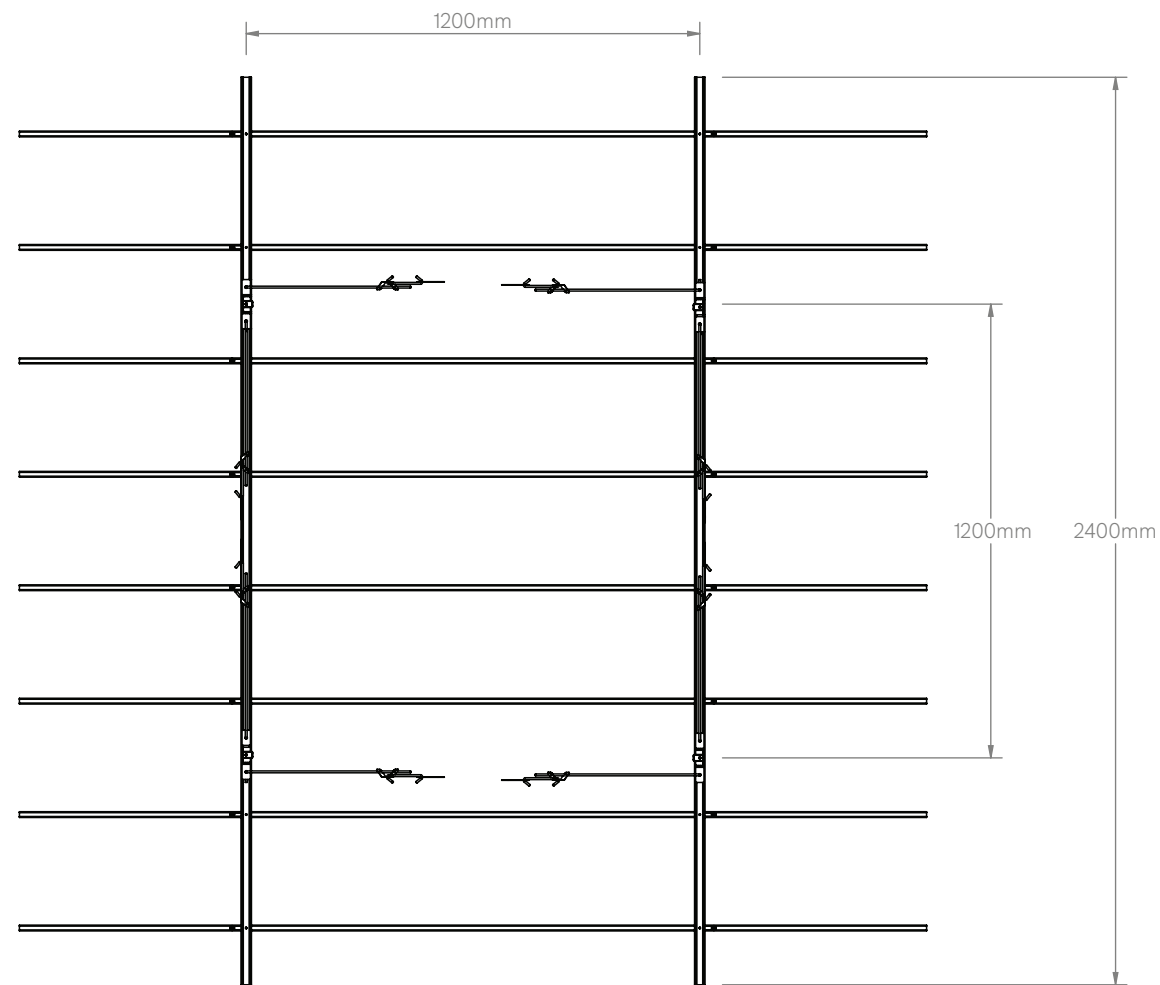
| Suggested Ceiling Fixing Detail | | |
|---------------------------------|-------------------------------|-------------------|
| Substrate | Fixing | Minimum Embedment |
| Concrete | Hilti-HUS3-HR6 | 40mm |
| Steel | Stainless Steel 8G Tek Screw | 0.55mm |
| Timber | Stainless Steel 8G Wood Screw | 30mm |



SEISMIC CONSIDERATIONS

For certain size installations, transverse and longitudinal seismic bracing may be required (dashed lines). See suggested bracing option on page 11.





RAFWCP
Autex Removable W-Clip

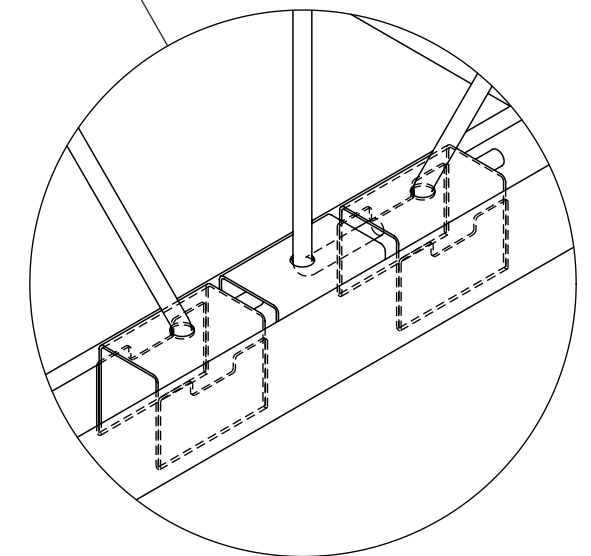
RAFEX24 (used as crossrail)
Autex Frontier 24mm Extrusion

RAFTCC
Autex Mounting Clip

RAFEX
Autex Frontier 12mm Extrusion + Fin
- or -

RAFEX24
Autex Frontier 24mm Extrusion + Fin
- or -

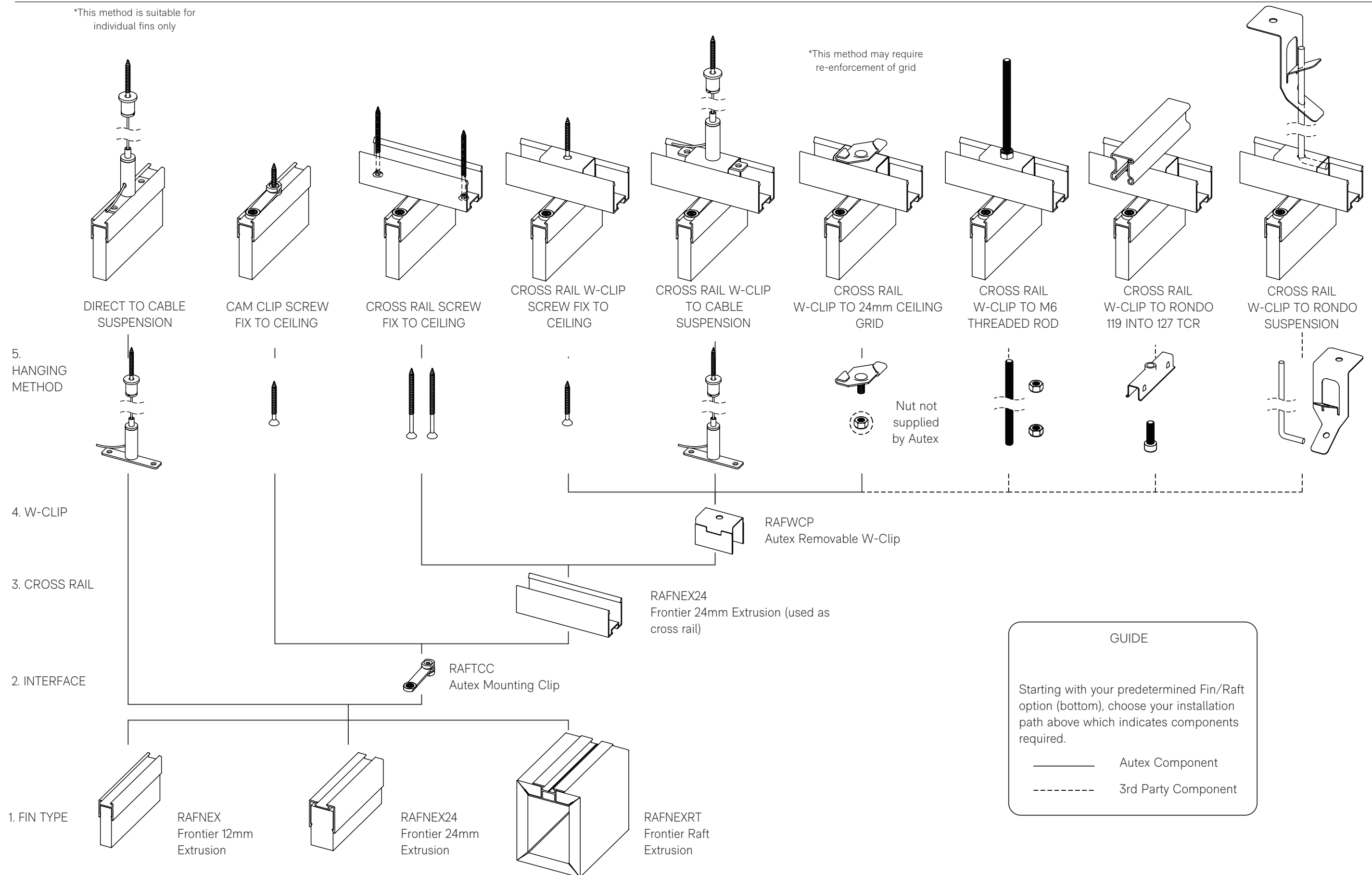
RAFEXRT
Autex Frontier Raft Extrusion + Raft

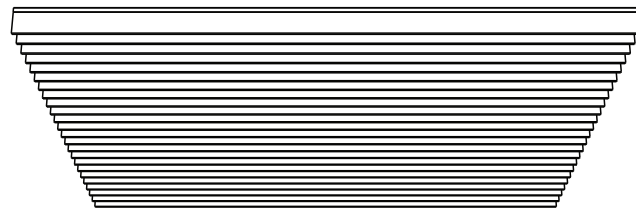


Additional Autex W Clips act as
interface between bracing and channel

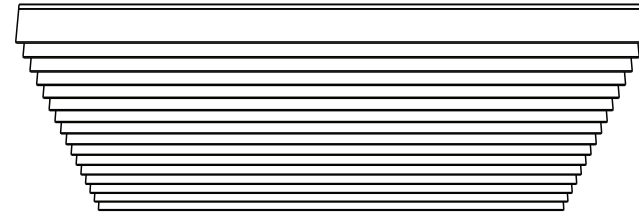
*This method is suitable for individual fins only

*This method may require re-enforcement of grid

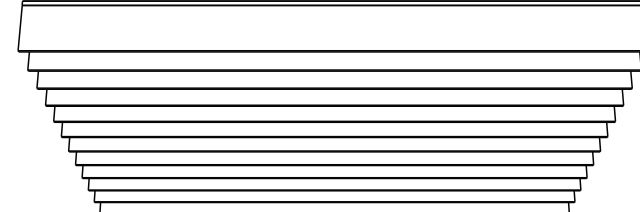




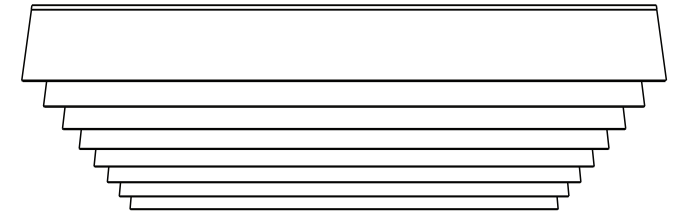
TUNDRA 100



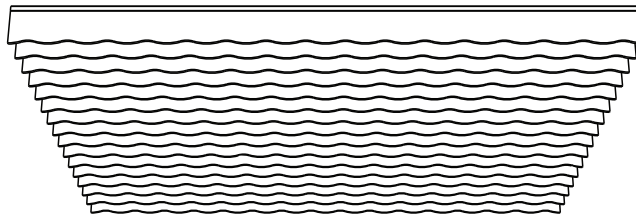
TUNDRA 150



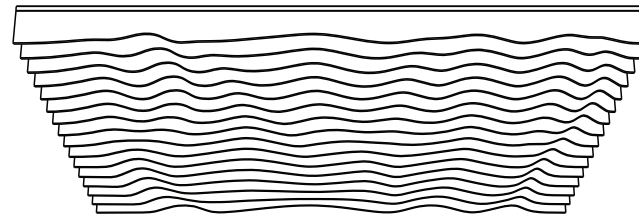
TUNDRA 200



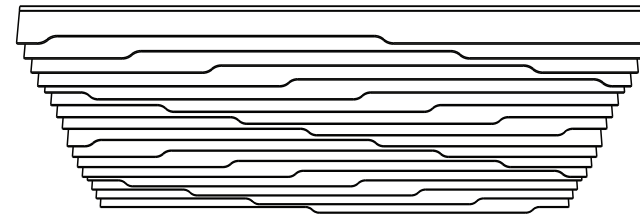
TUNDRA 300



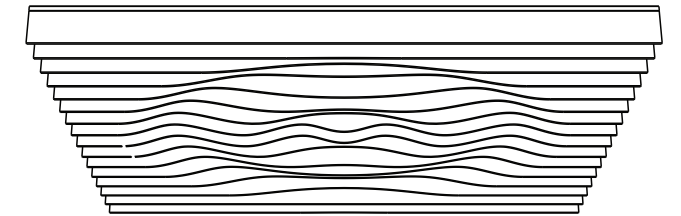
WAVE



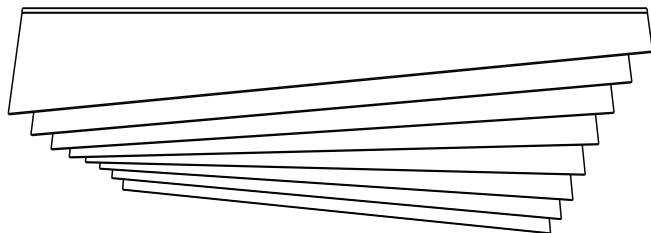
DRAPE



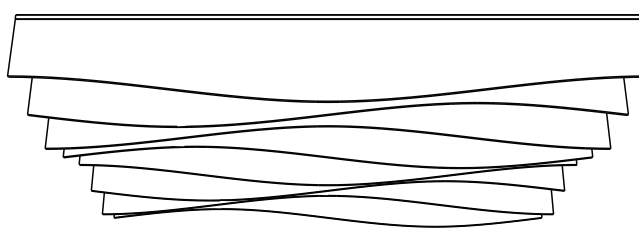
GLIDE



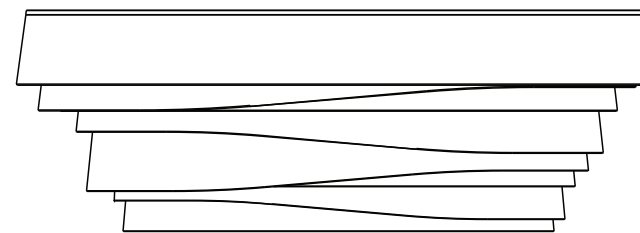
RIPPLE



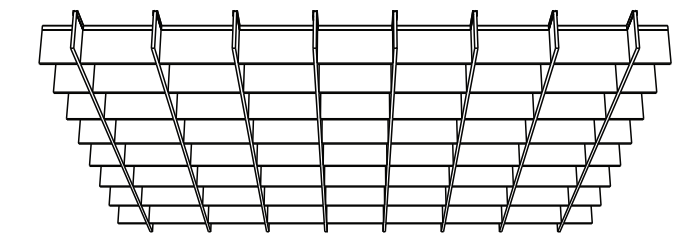
SIERRA



TALUS



DUNE

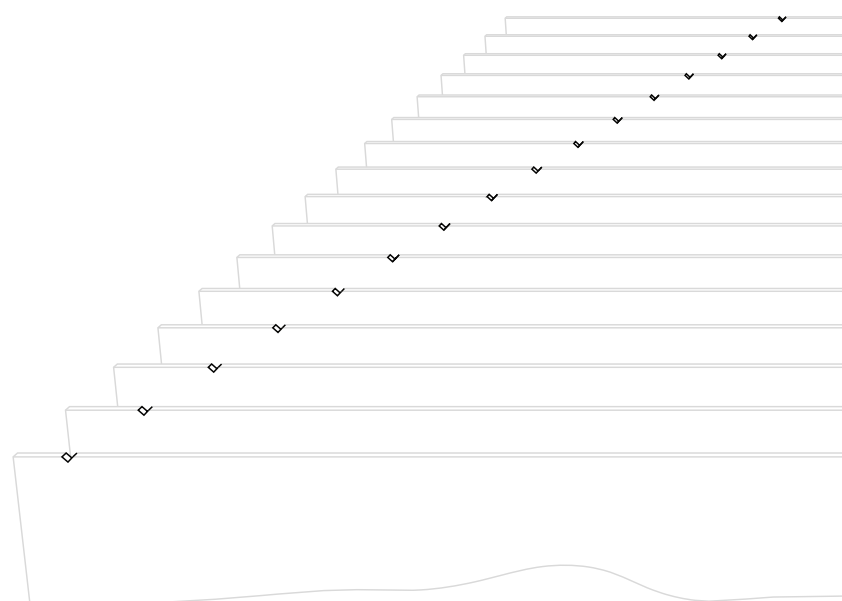
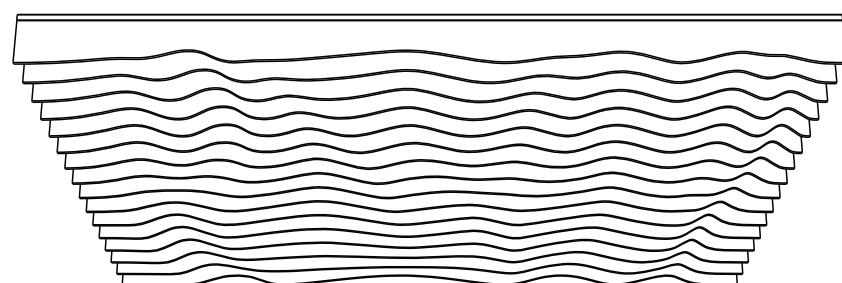


AXIS

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.

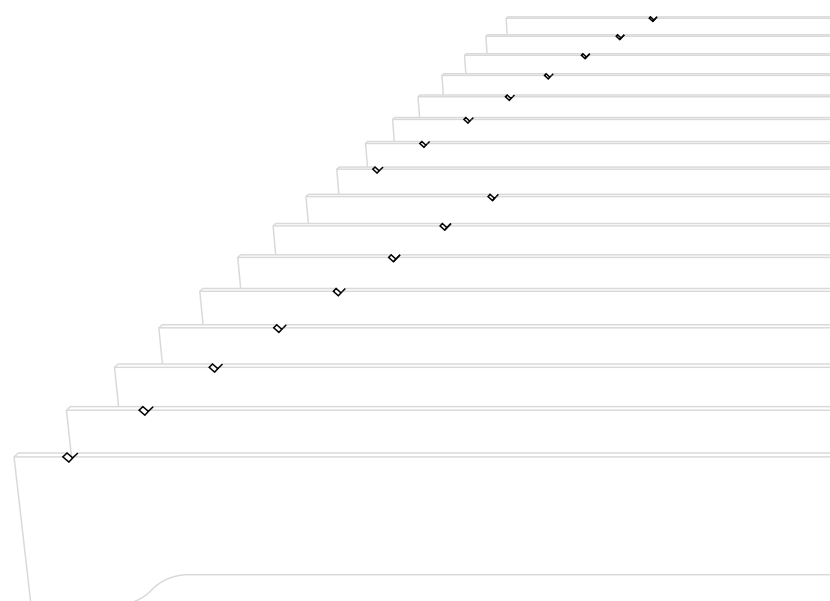
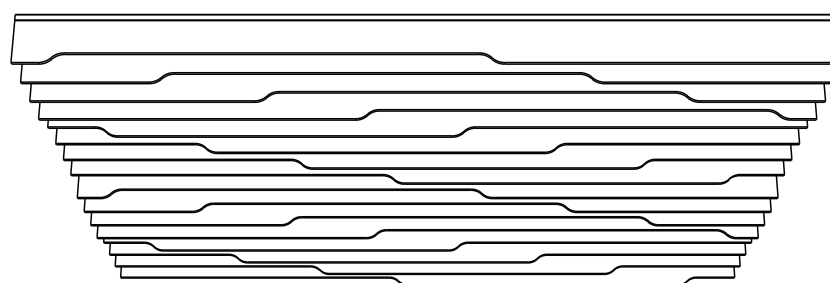
If you are using a style noted below, check how these notches should be sequenced for correct install order.

DRAPE



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

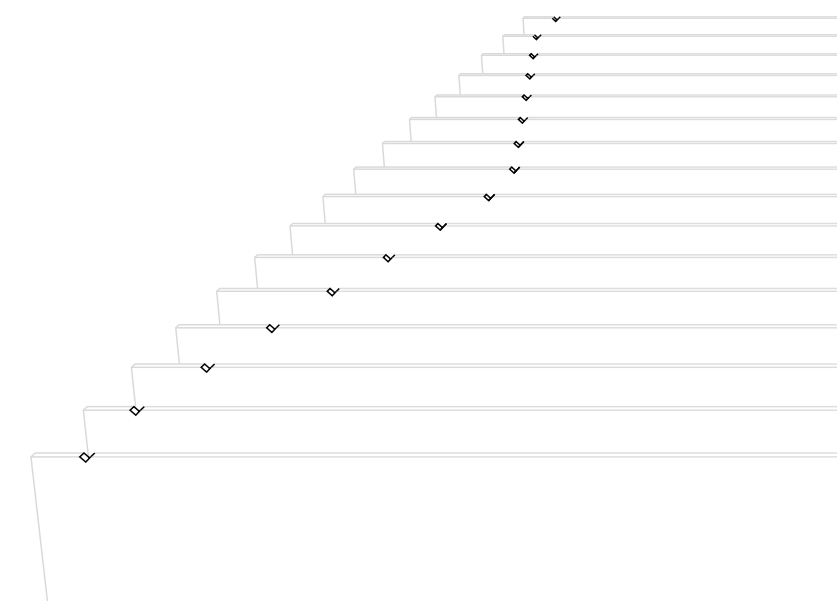
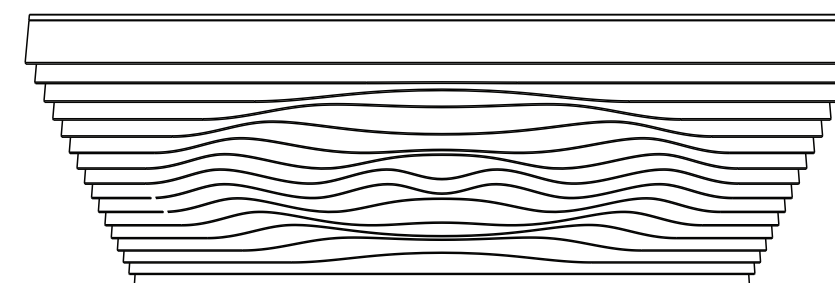
GLIDE



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

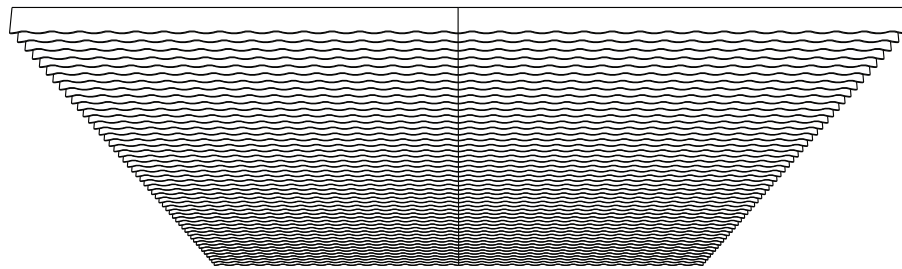
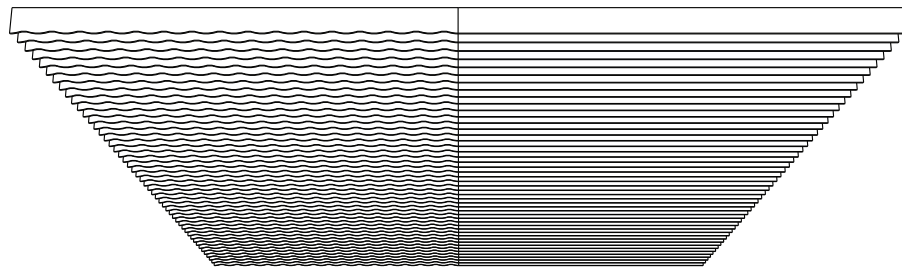
This pattern looks continuous from beneath when installed correctly.

RIPPLE

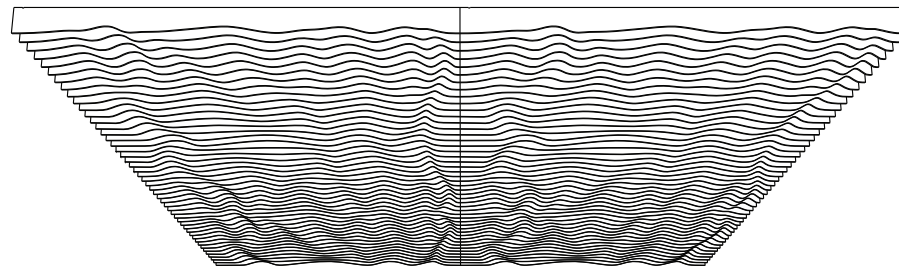
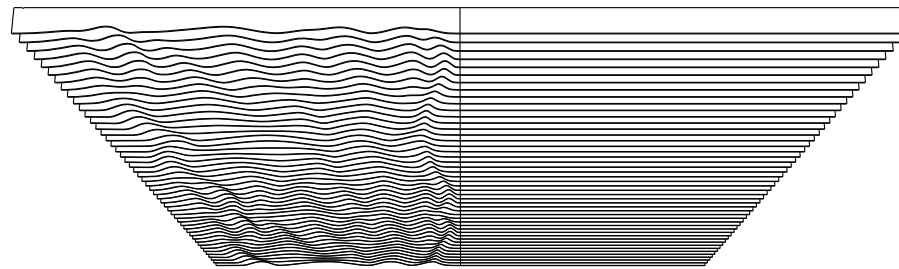


Ripple has a symmetrical pattern, so the notches should reverse direction at half-way like shown.

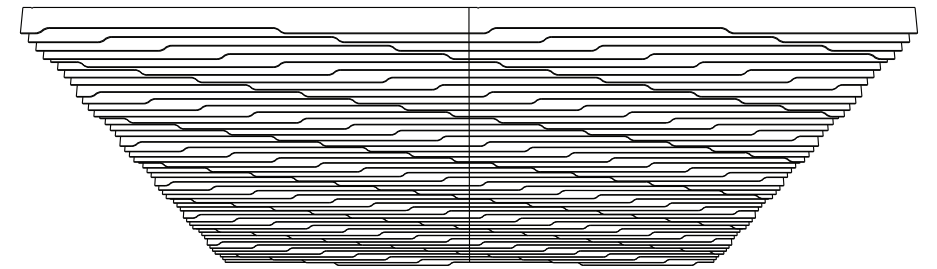
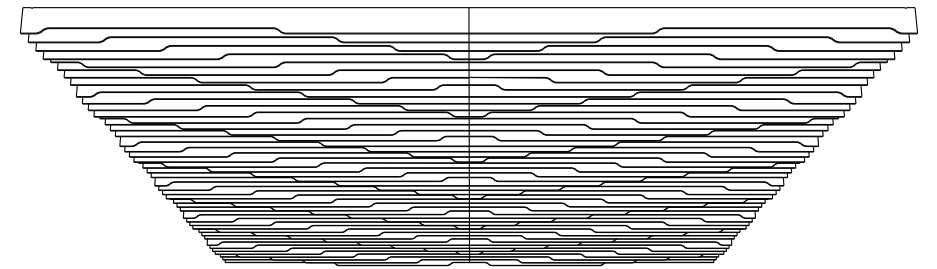
WAVE



DRAPE

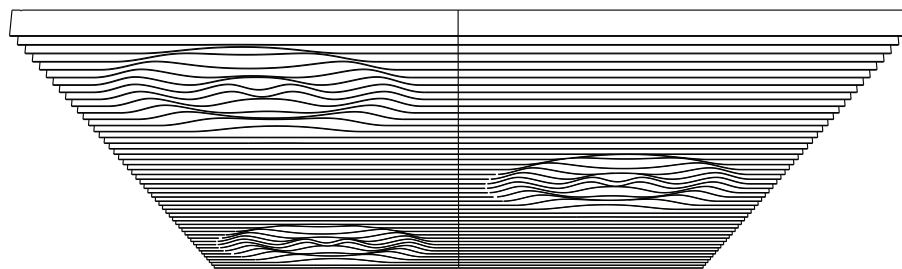


GLIDE



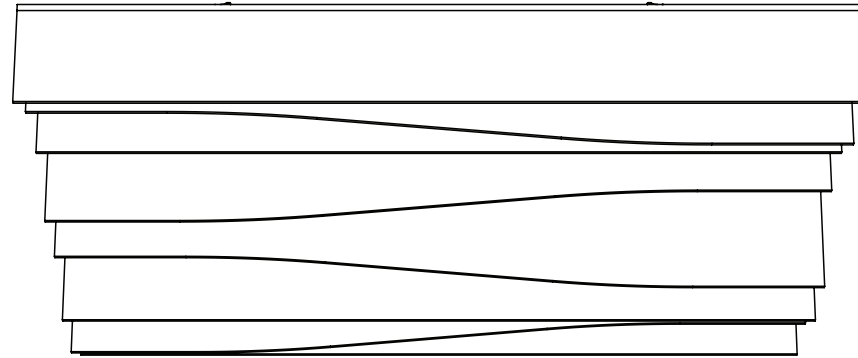
Tip: For a more irregular pattern, fin sequence can be mirrored between packs. Fins should stay the same orientation end-to-end though.

RIPPLE



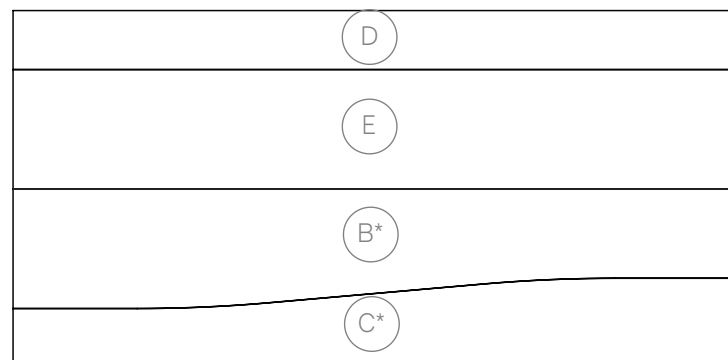
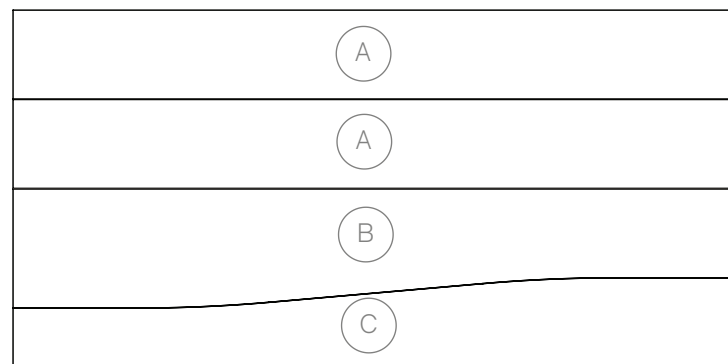
Note:
6x packs are shown arrayed in each example (2 wide x 3 long).
All styles are designed to pair with Tundra 150 if desired.

DUNE

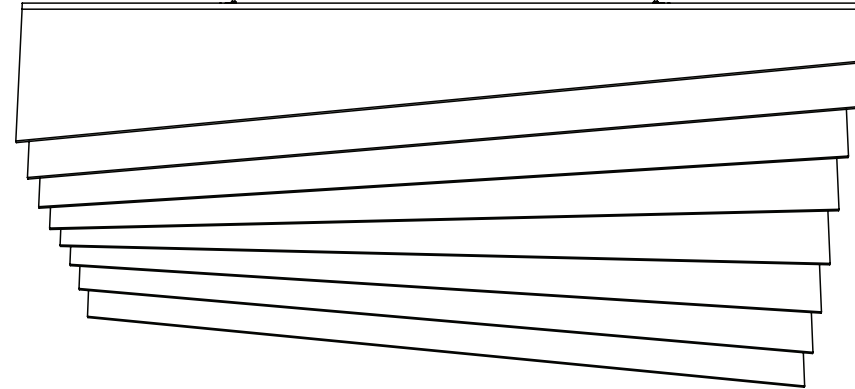


Install sequence pattern as shown above
A, C, D, C*, B, E, B*, A

Box layout as shown below.

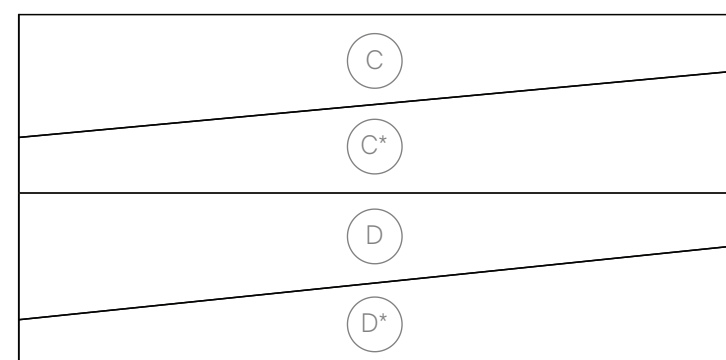
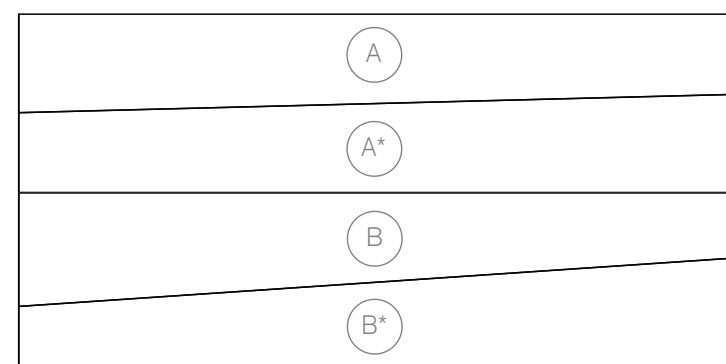


SIERRA

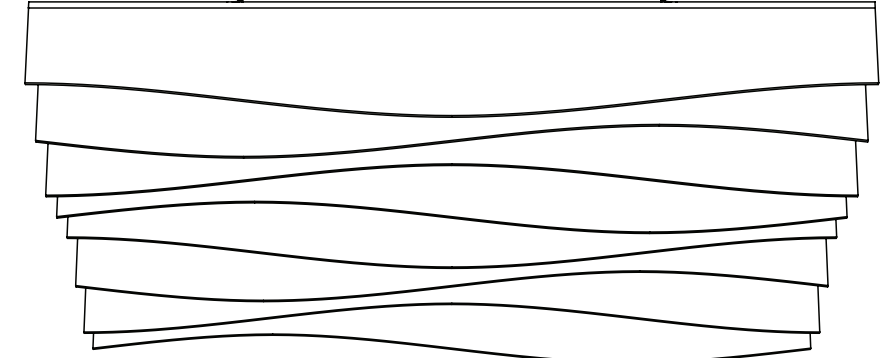


Installation sequence pattern as shown above
D, C, B, A, A*, B*, C*, D*...
To continue the pattern, the following set of 8 fins will be in the
REVERSE order

Box layout as shown below.

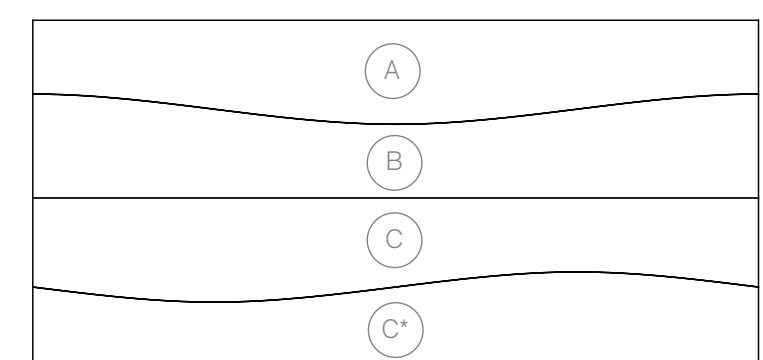
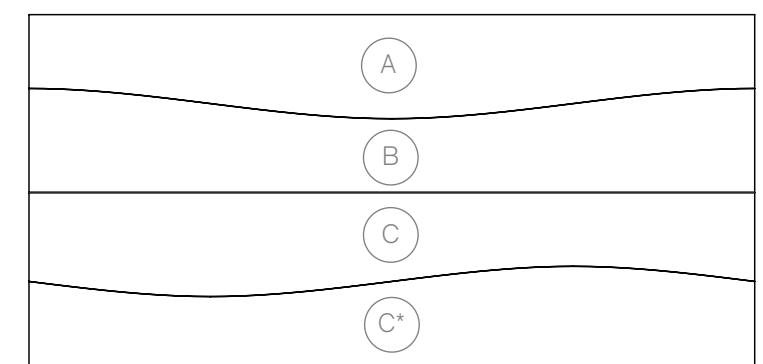


TALUS

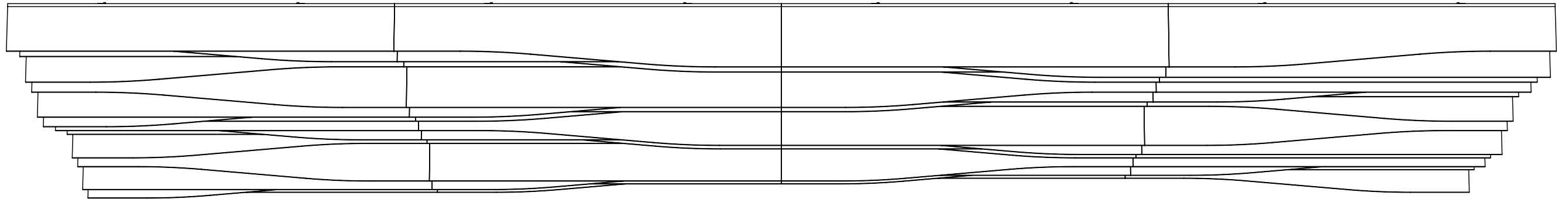


Installation sequence pattern as shown above
A, C, B, C*, A, C, B, C*...

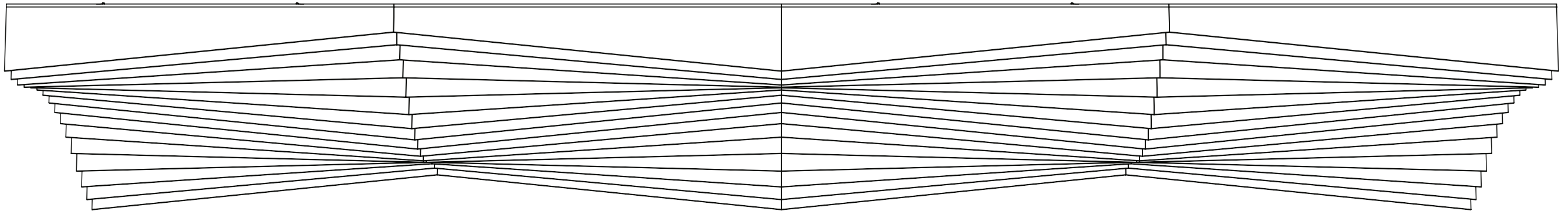
Box layout as shown below.



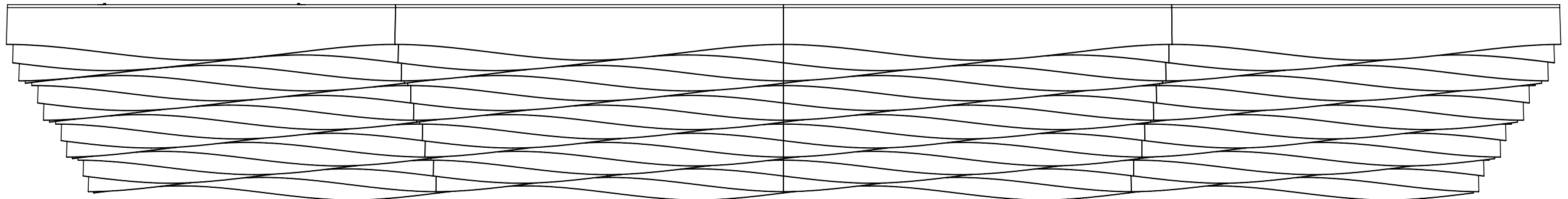
DUNE



SIERRA



TALUS

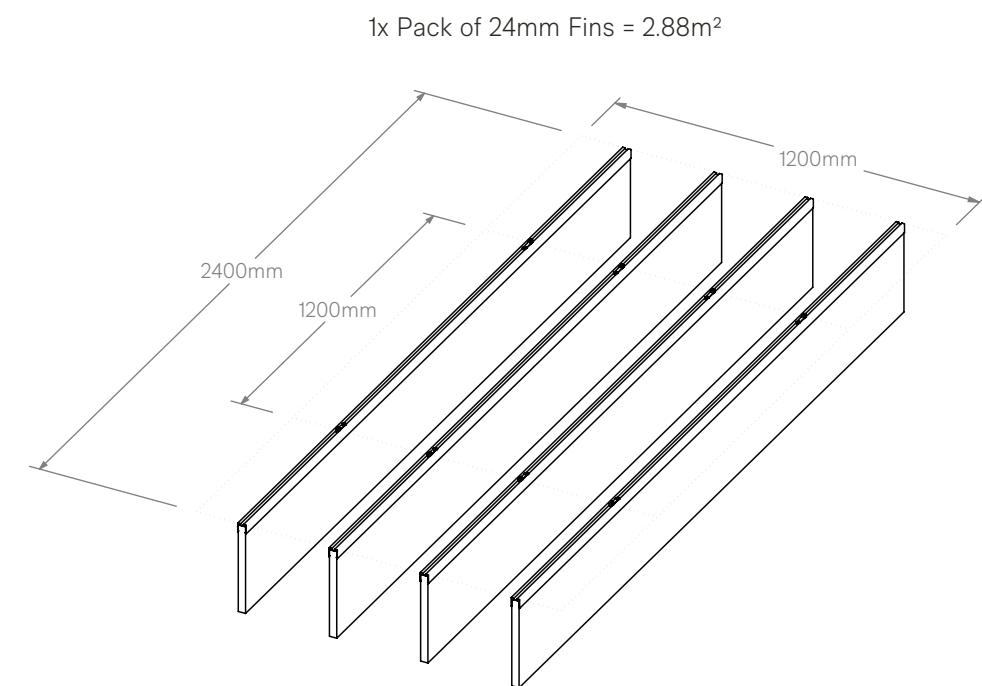
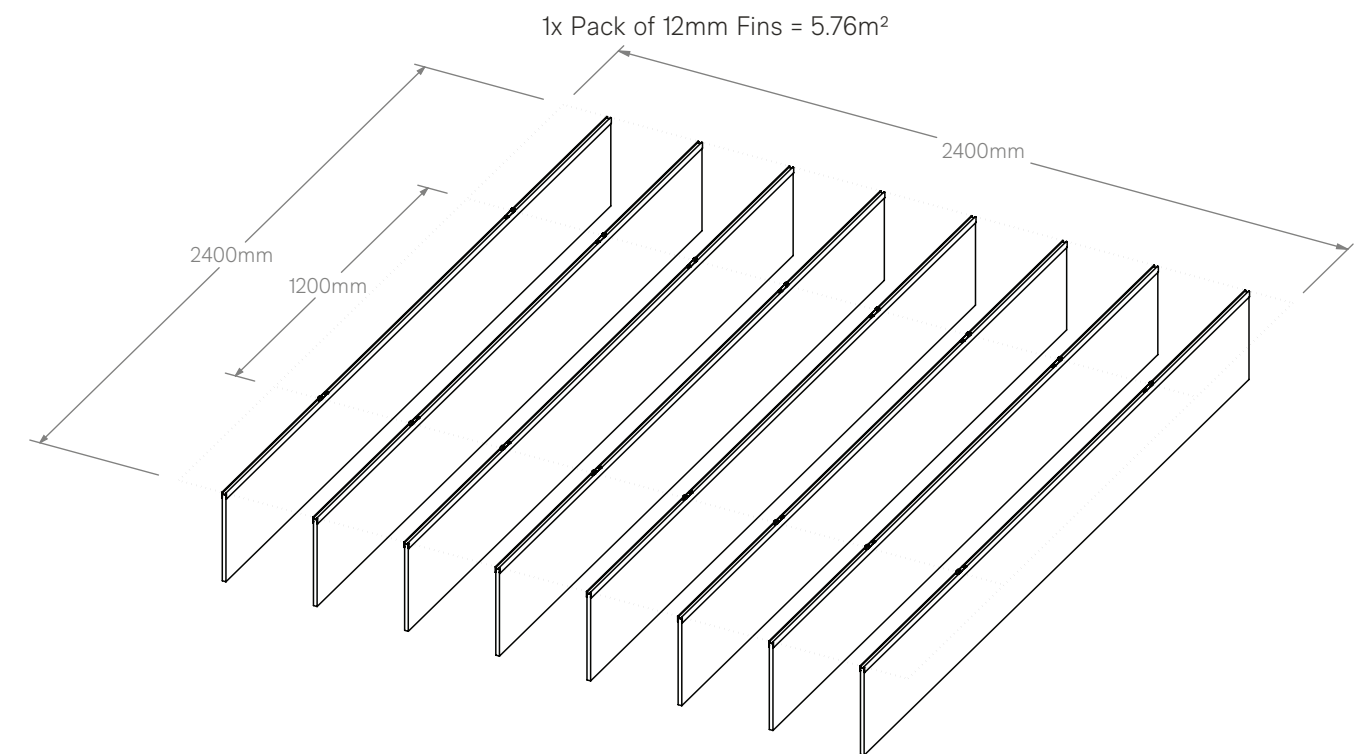
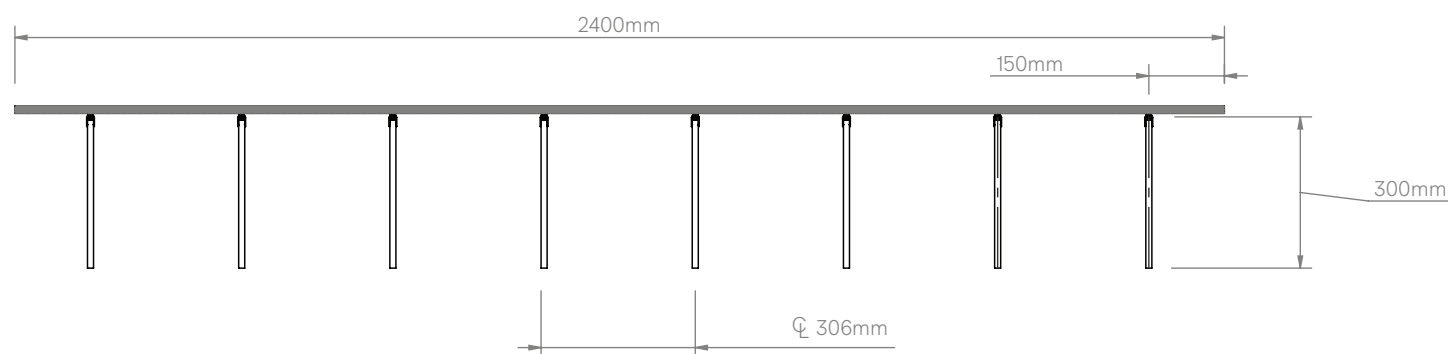
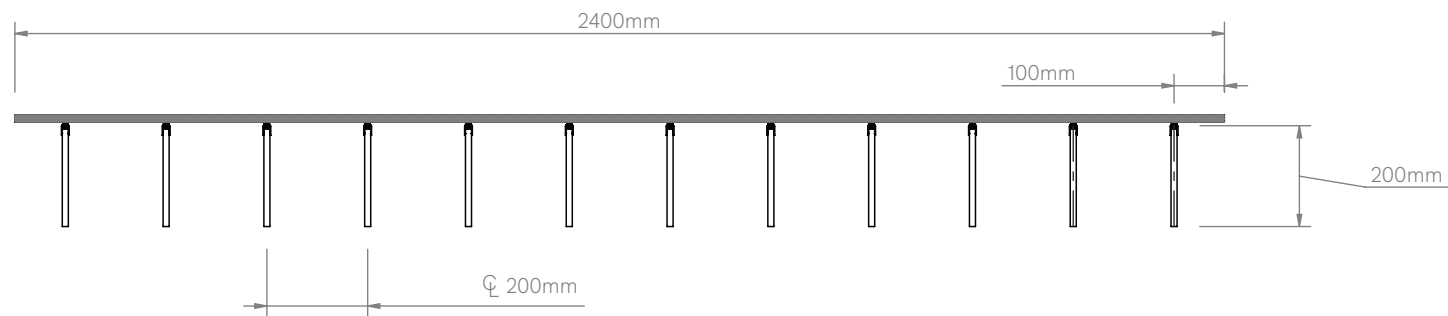
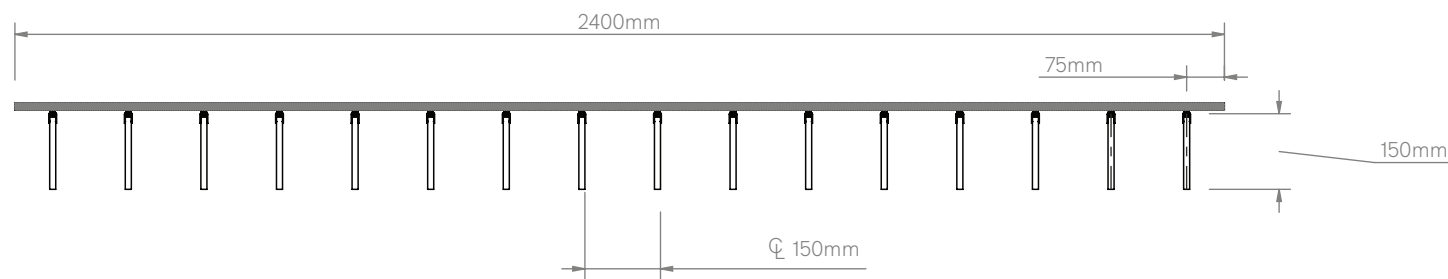
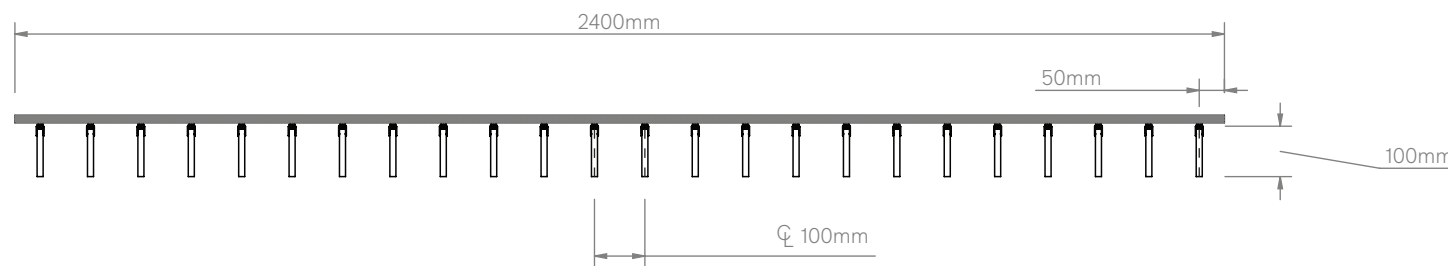
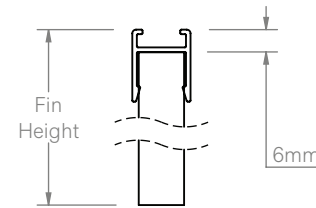


NOTES

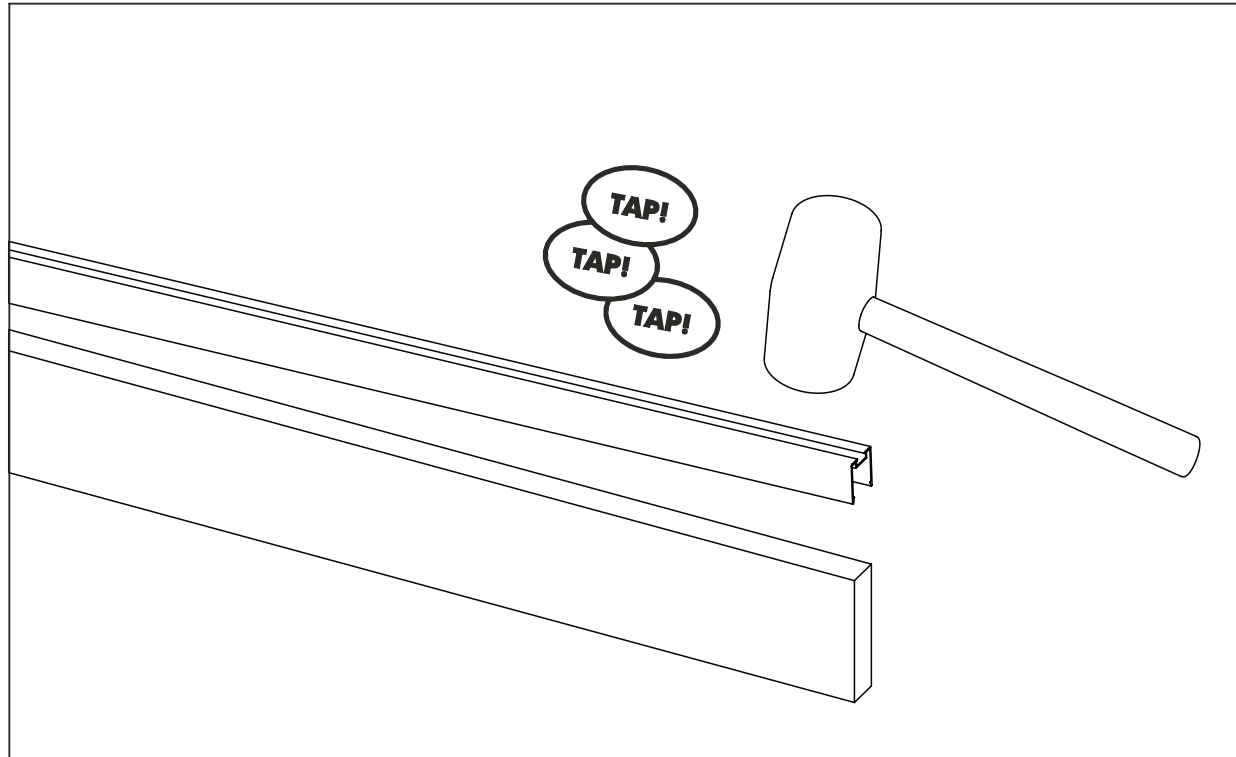
- Recommended guide for listed ceiling coverage is for the fin spacing to be equal to the fin height.

- Fin height is inclusive of the Autex Frontier Extrusion

FIN SPACING = FIN HEIGHT

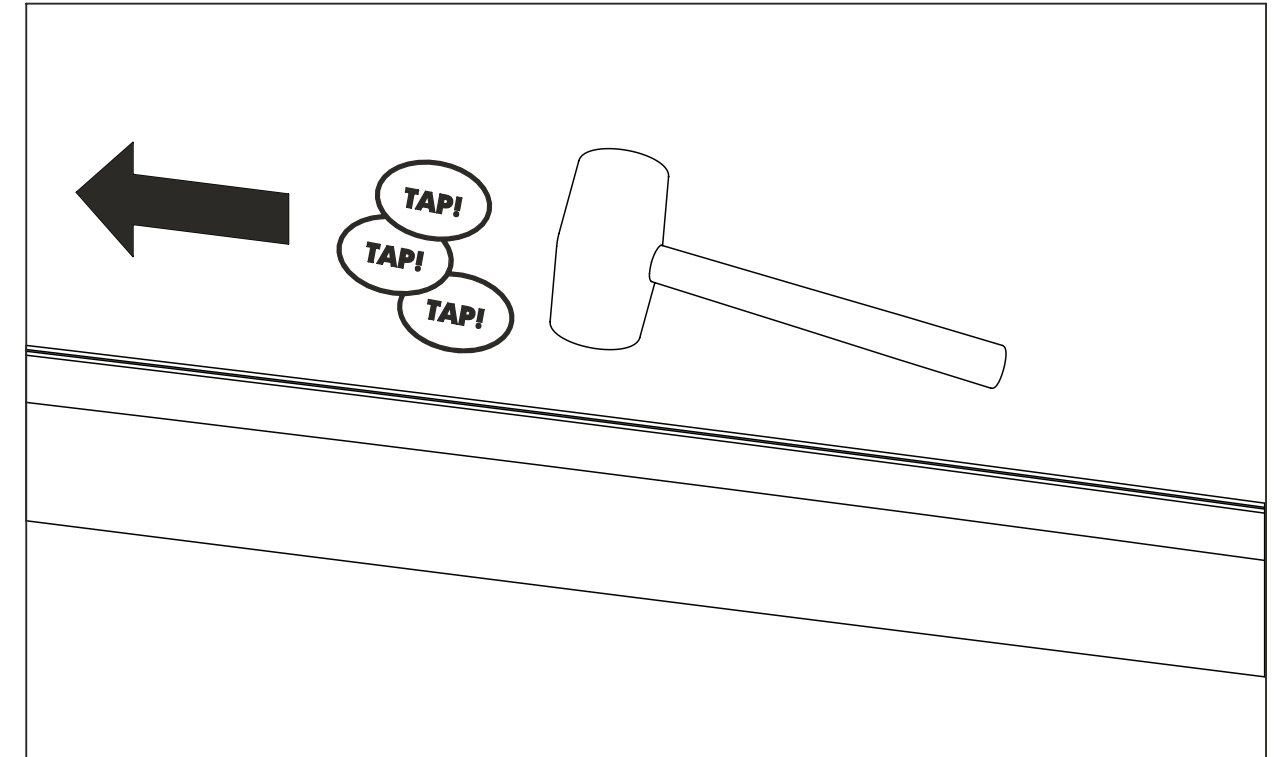


1.



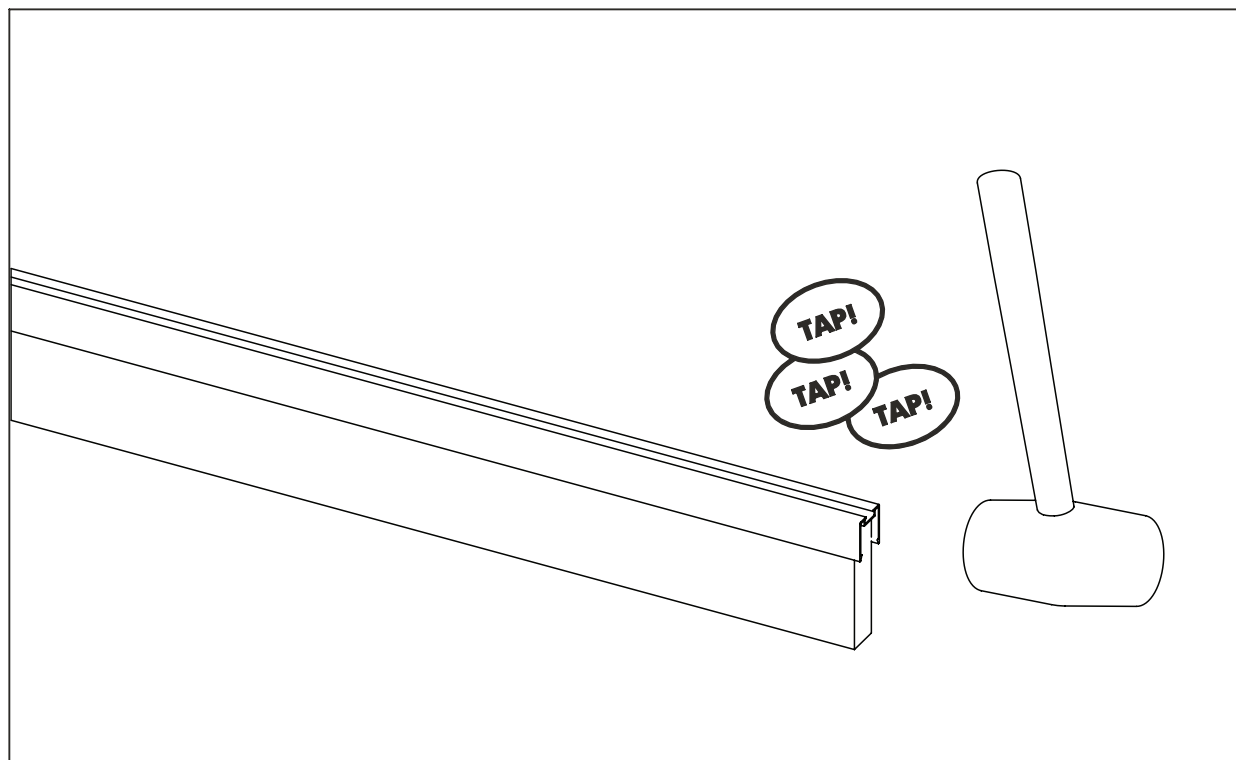
Using a rubber mallet, seat the channel onto the fin.

2.



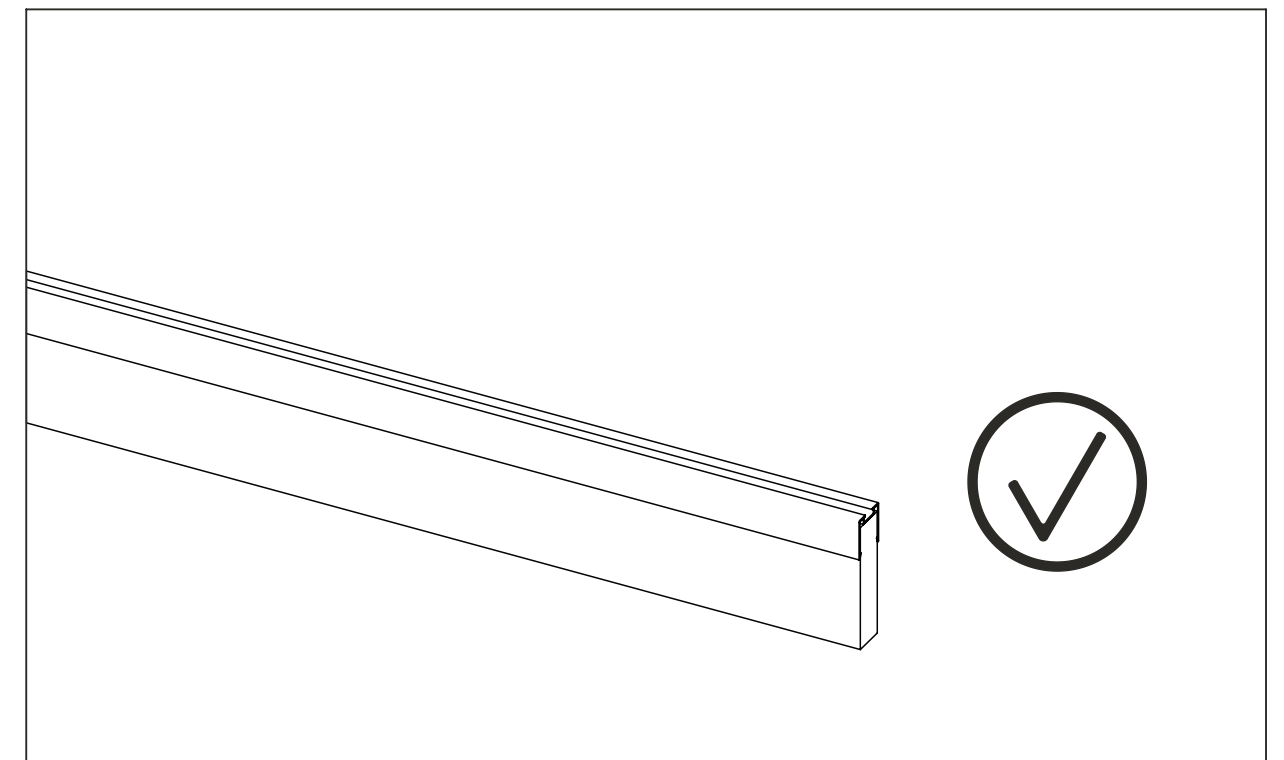
Starting at one end and using the mallet, tap along the length of the channel to ensure there is no bowing in the centre and the channel is seated correctly.

3.



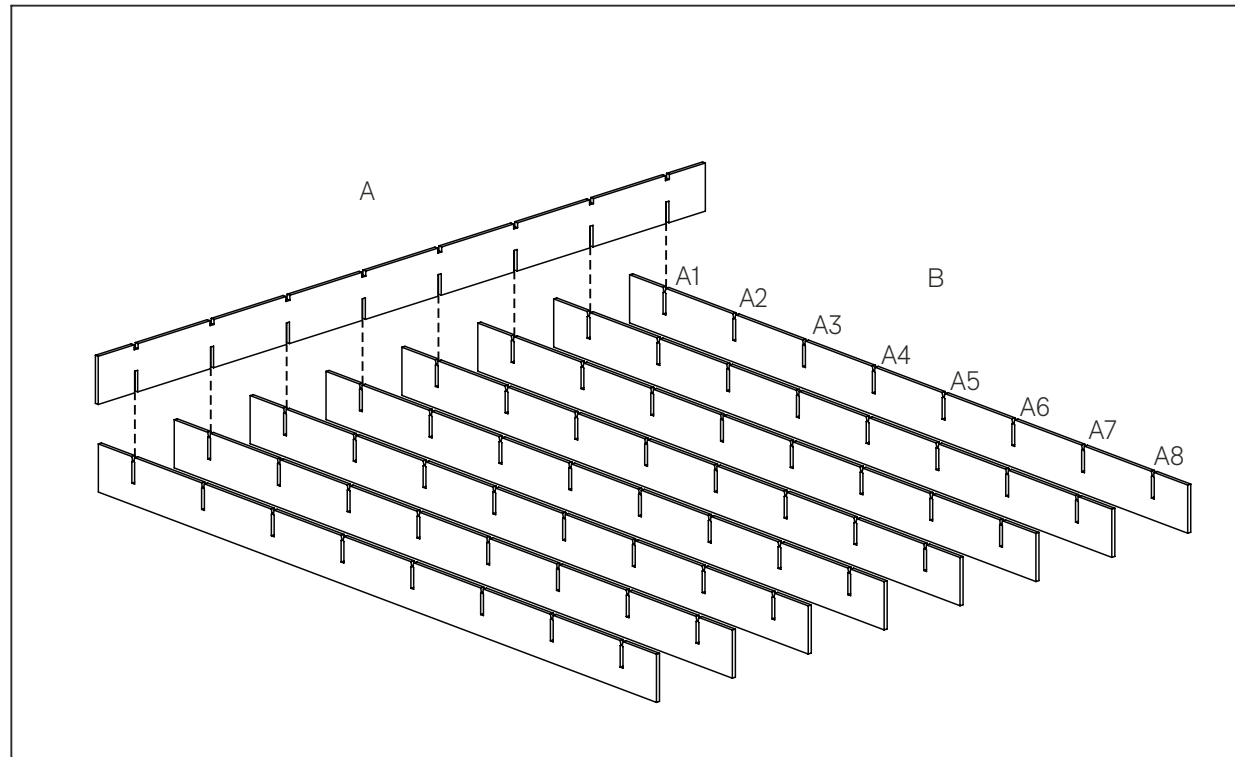
Ensure the end of the channel is aligned with the Frontier Fin by tapping the overhanging end of the extrusion.

4.



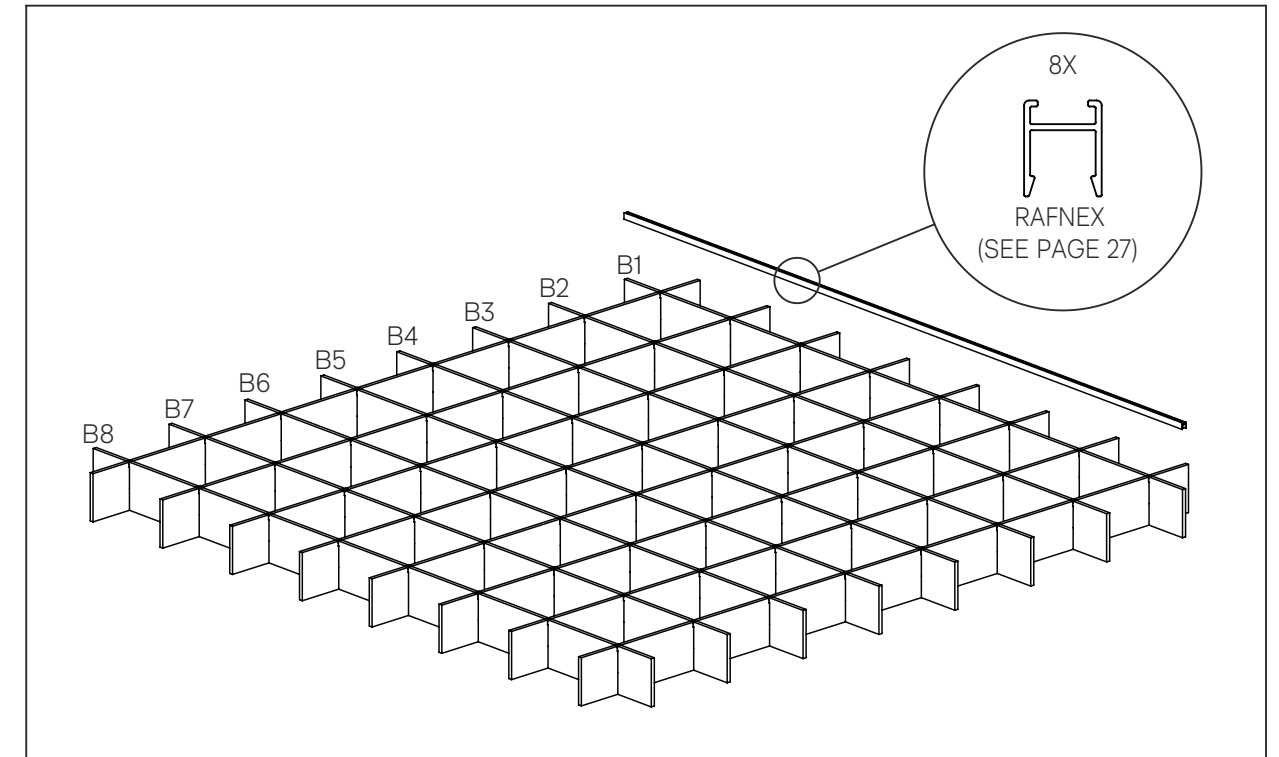
The Frontier Fin is now ready for installation to the ceiling.

1.



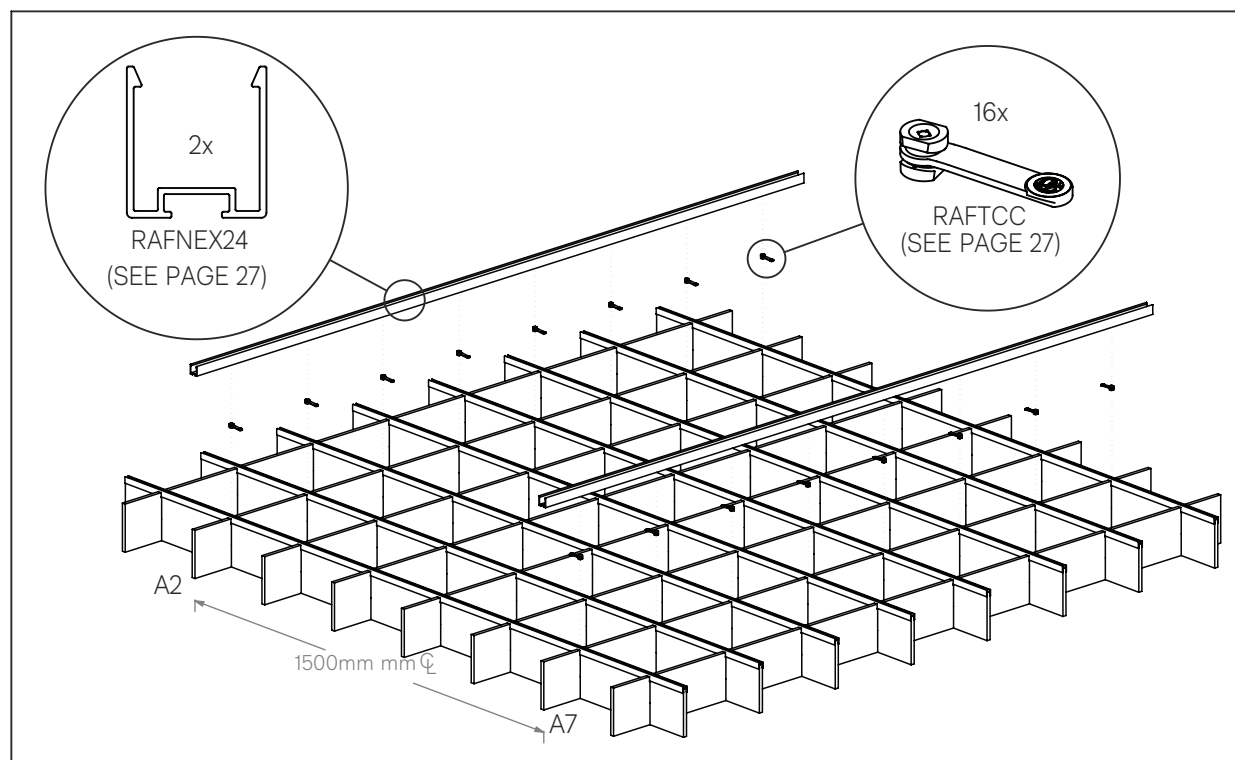
In the Frontier Axis pack there are two types of Fin (A and B). Part A has two notches and the small notch should be facing up when inserted into Part B.

2.



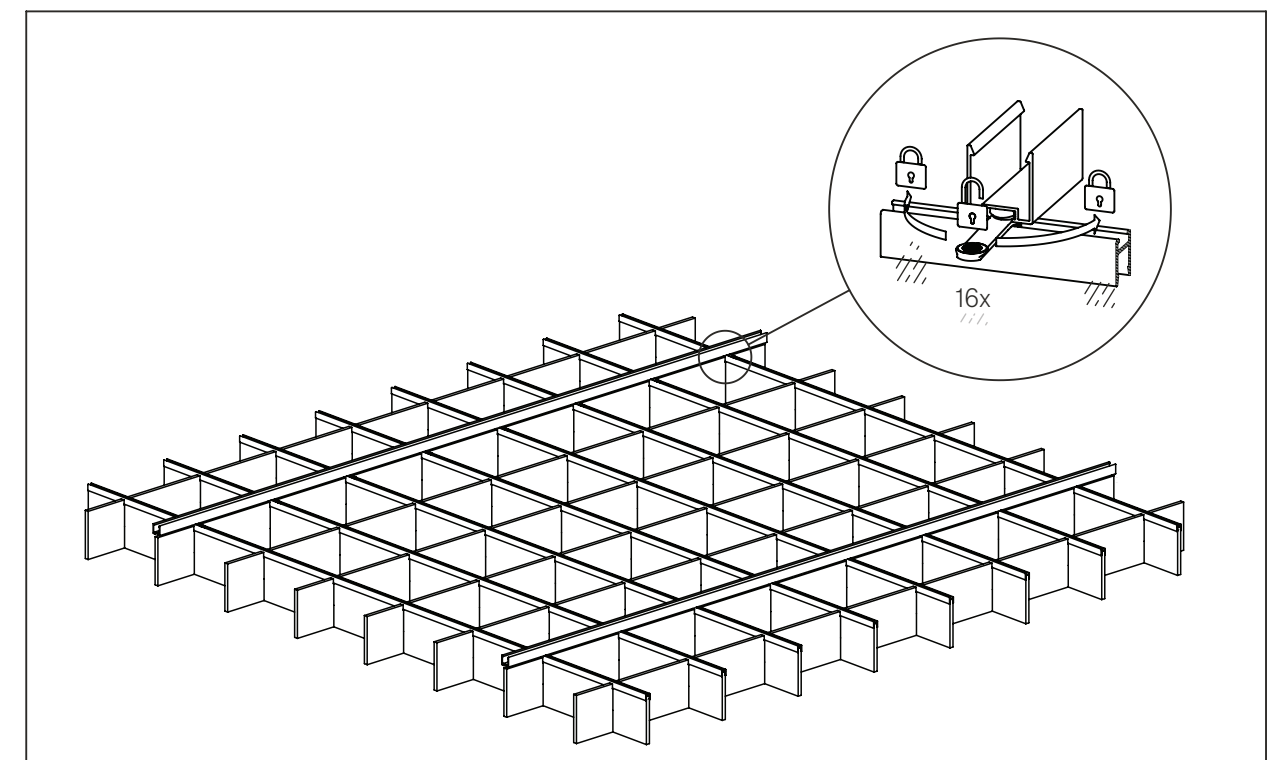
Using a rubber mallet, attach the 8x Rafnex channels along the lengths of the 'B' fins to lock the Axis Fins together in a grid.

3.



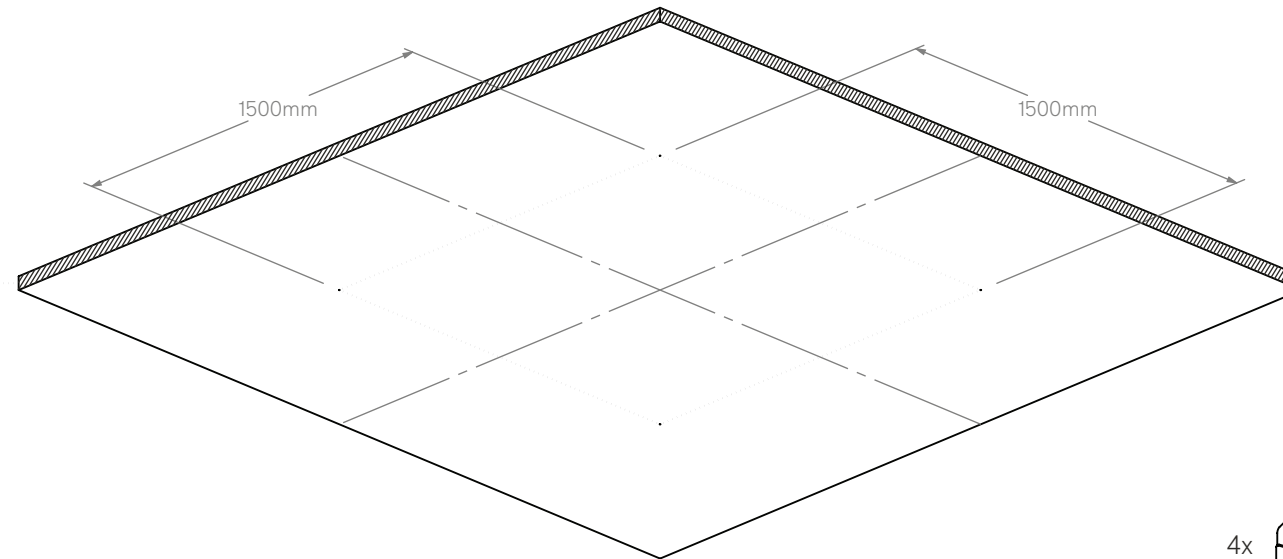
To attach the included 2x RAFNEX24 cross rails, first clip the 16x Autex Mounting Clips at the intersection points along the A2 and A7 Rails. Press the Crossrail onto the clips so they click into place.

4.

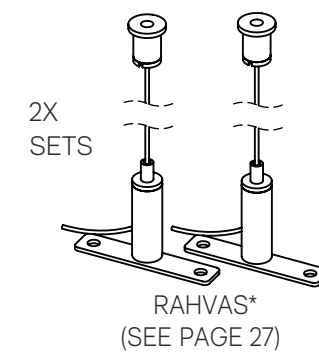
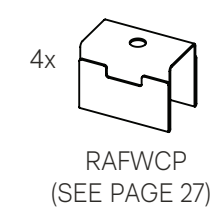
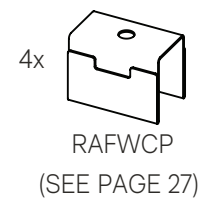


Twist the Autex Mounting Clips 90° to lock them off. The Frontier Axis Grid is now ready for installation to the ceiling.

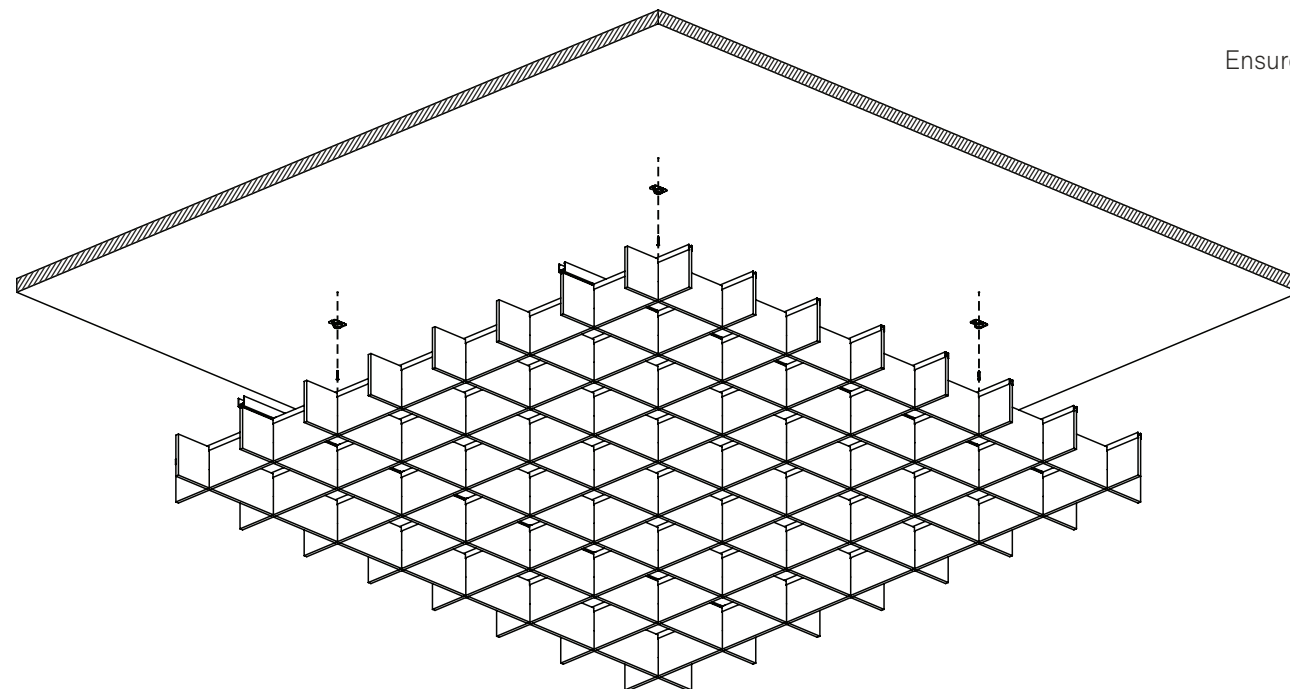
CEILING SETOUT



*Can be replaced by a rigid suspension set if required. See pages 7-11 for suggested details

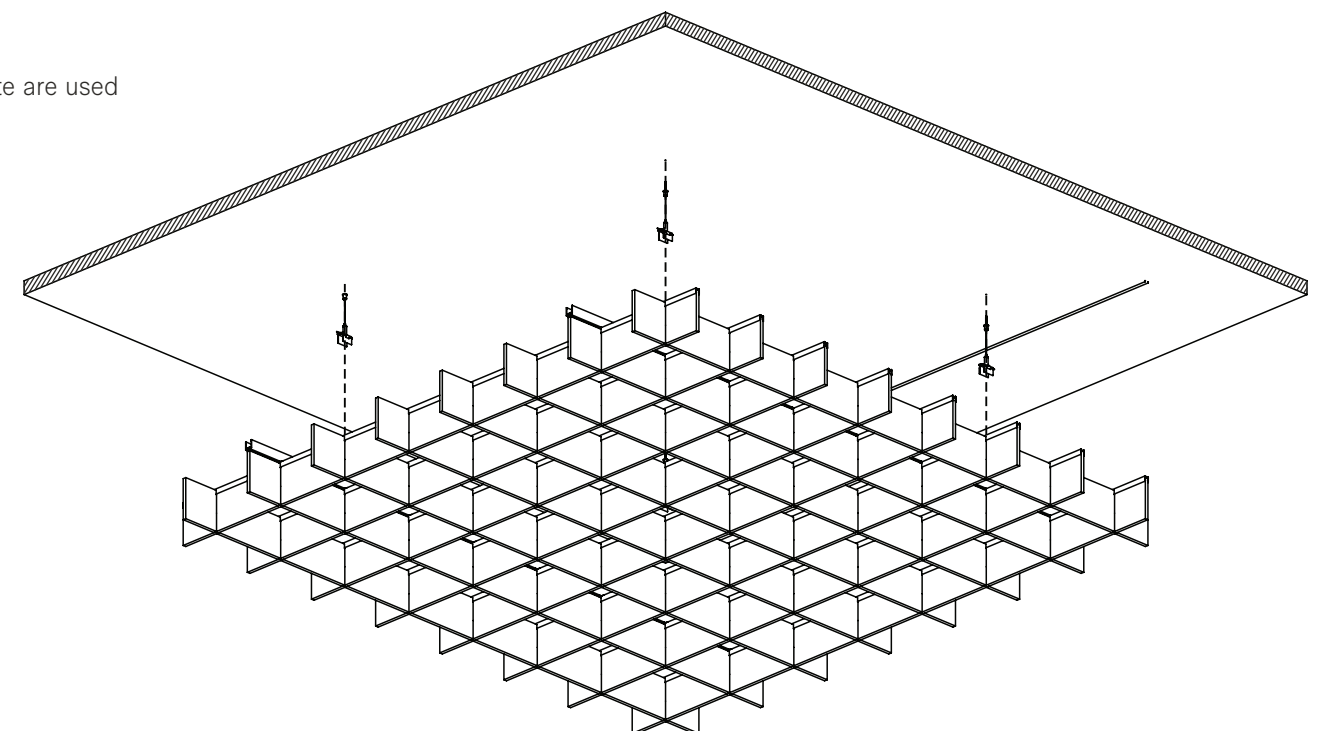


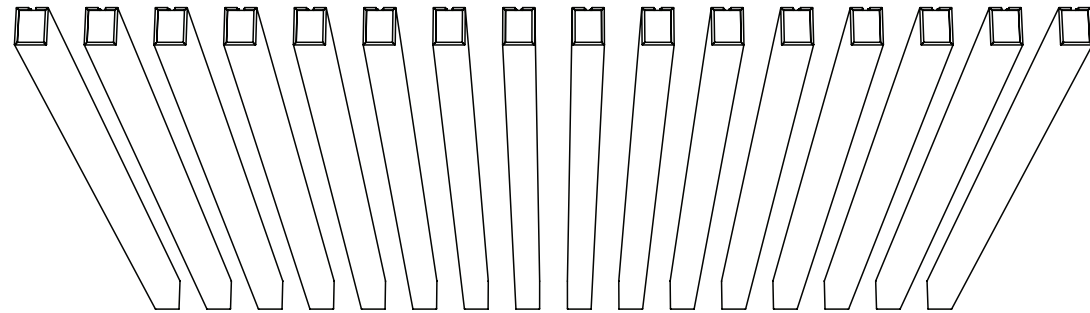
DIRECT FIX TO CEILING



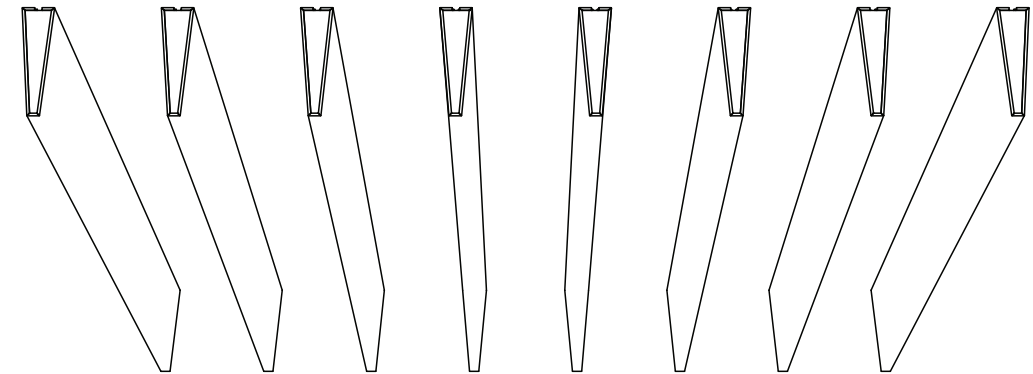
Ensure suitable fasteners for substrate are used
(NOT SUPPLIED)

SUSPENDED FROM CEILING

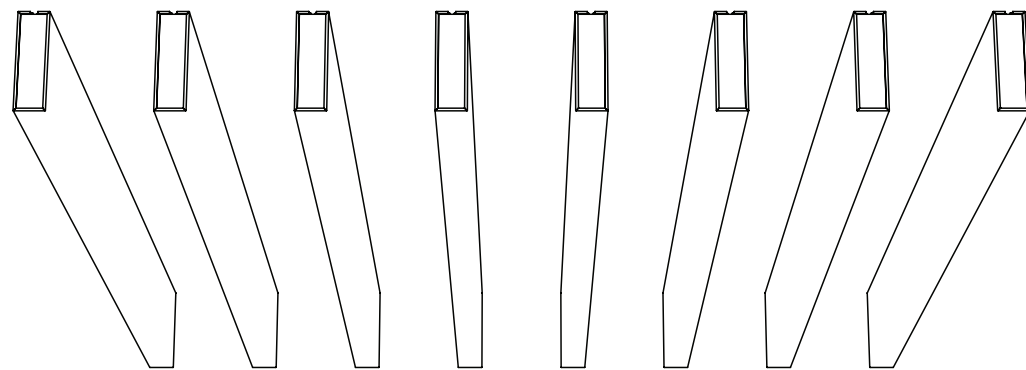




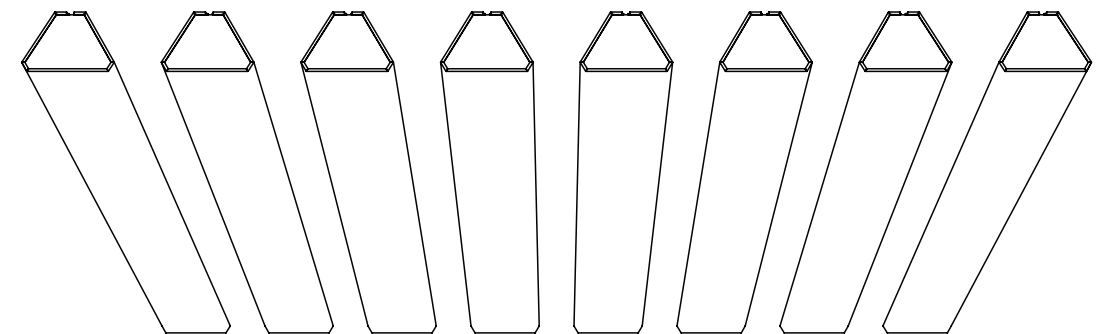
RAFT BEAM 100
2X PACKS SHOWN



RAFT BLADE
2X PACKS SHOWN

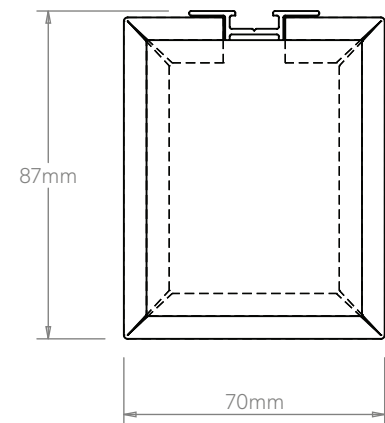


RAFT BEAM 250
2X PACKS SHOWN

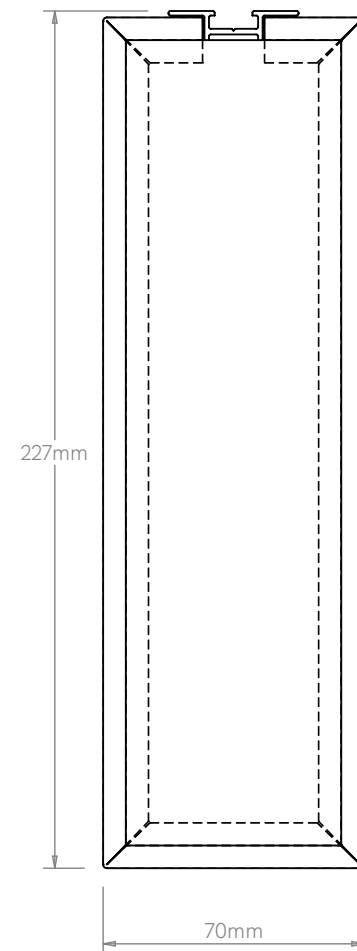


RAFT TRAPEZOID
2X PACKS SHOWN

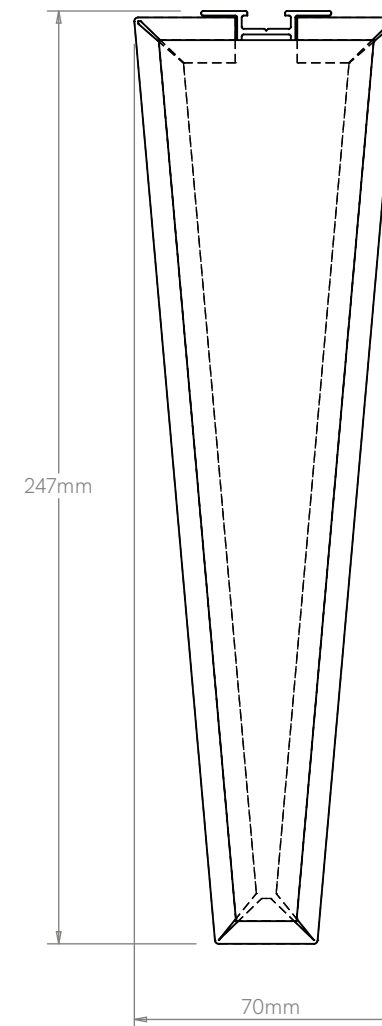
BEAM 100



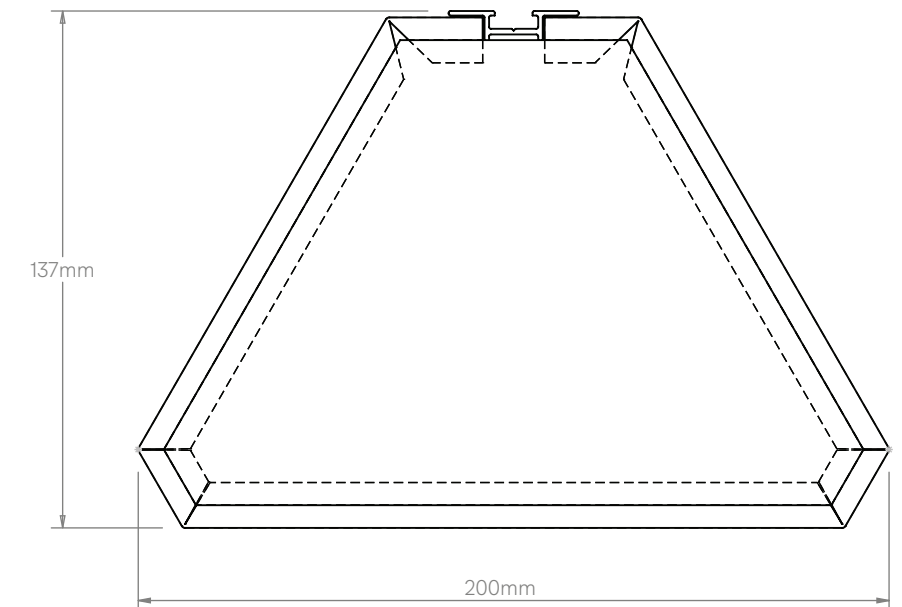
BEAM 250



BLADE

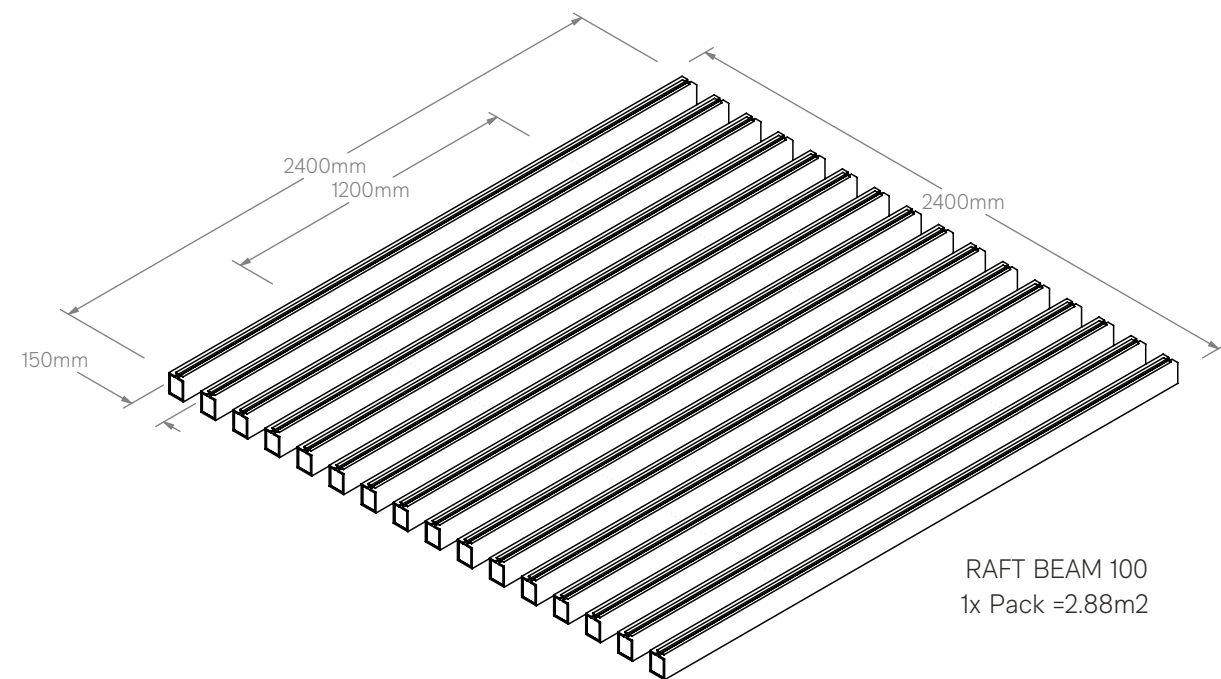


TRAPEZOID

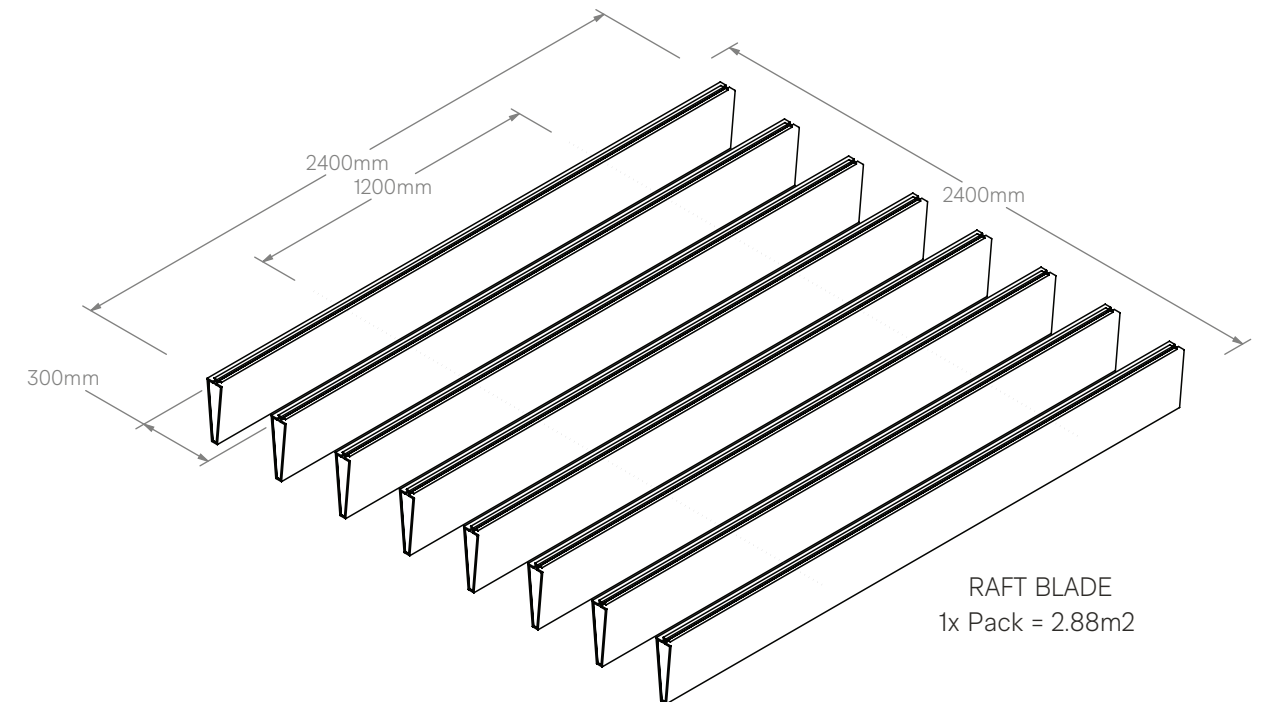


NOTES

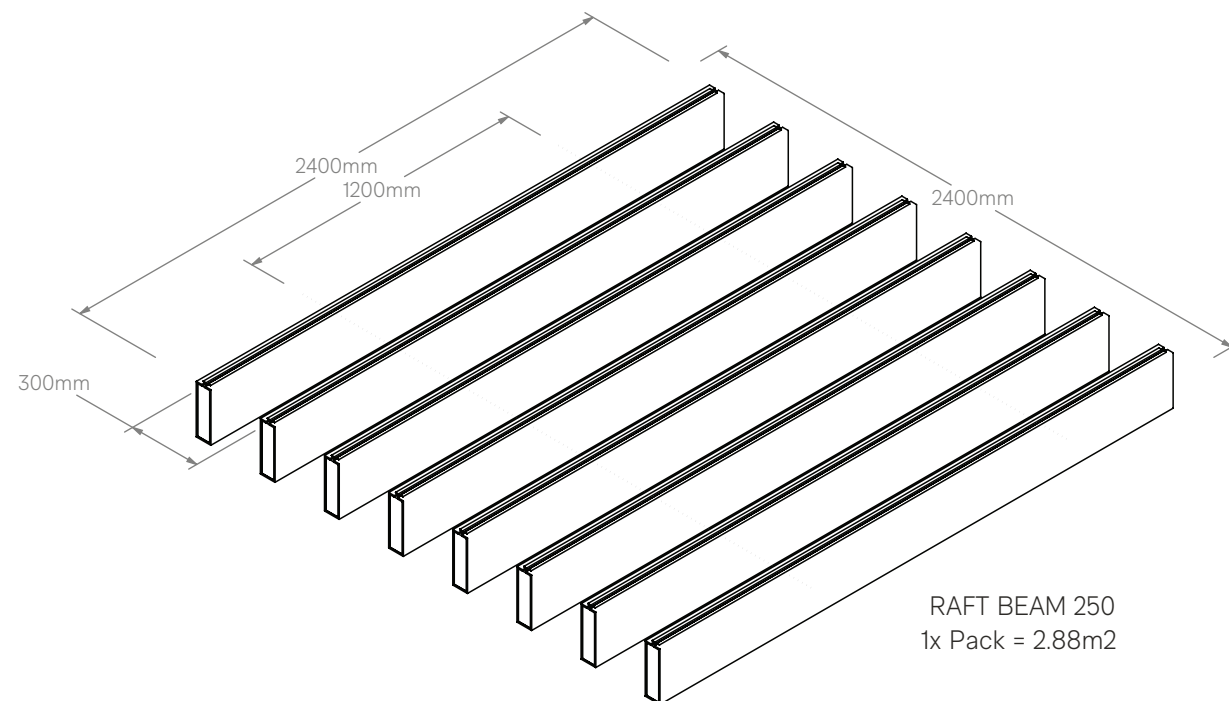
- Raft height is inclusive of the Autex frontier Raft Extrusion
- Refer to page 24 for recommended Raft spacing



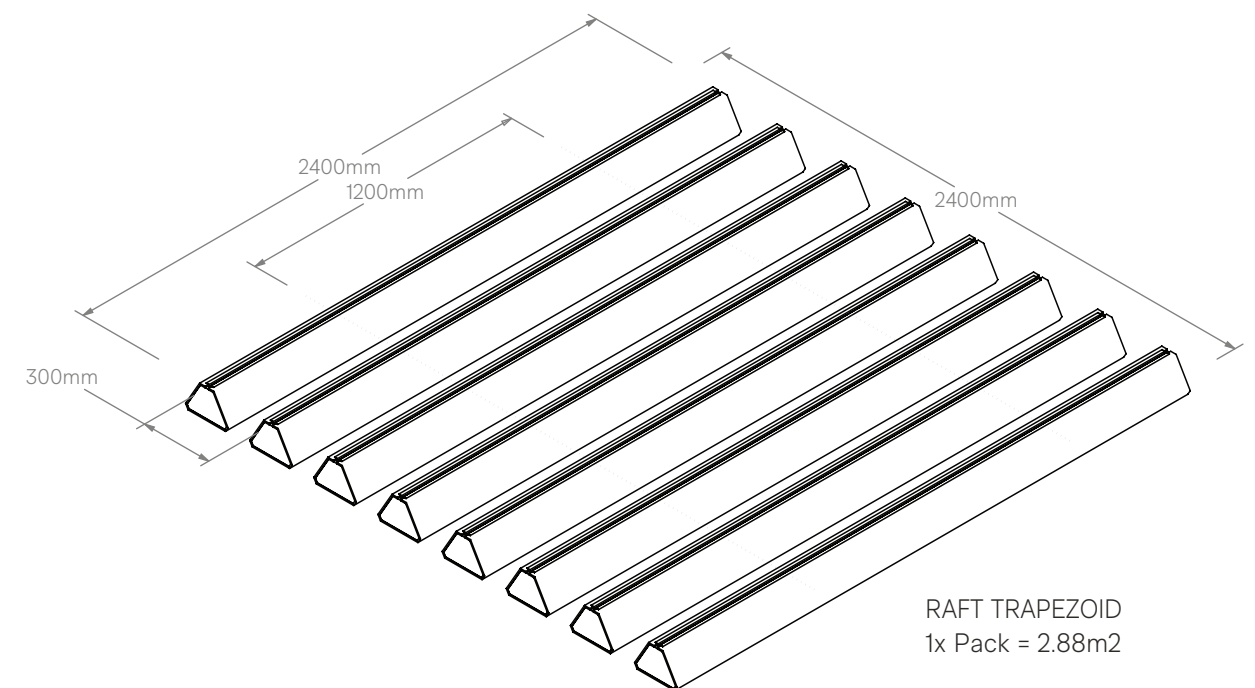
RAFT BEAM 100
1x Pack = 2.88m²



RAFT BLADE
1x Pack = 2.88m²



RAFT BEAM 250
1x Pack = 2.88m²



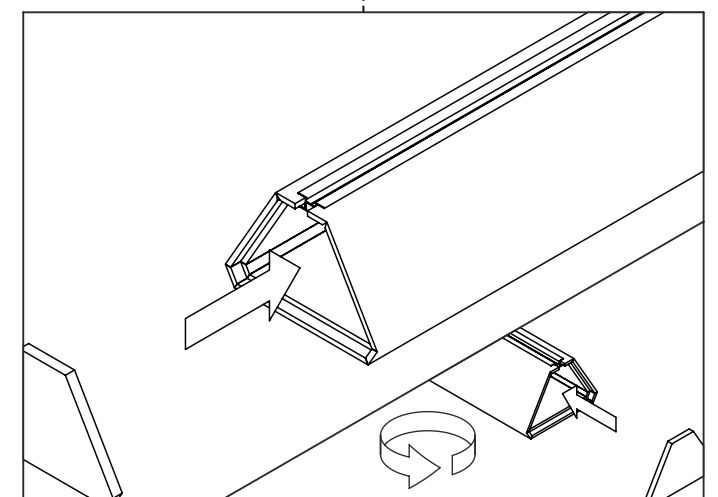
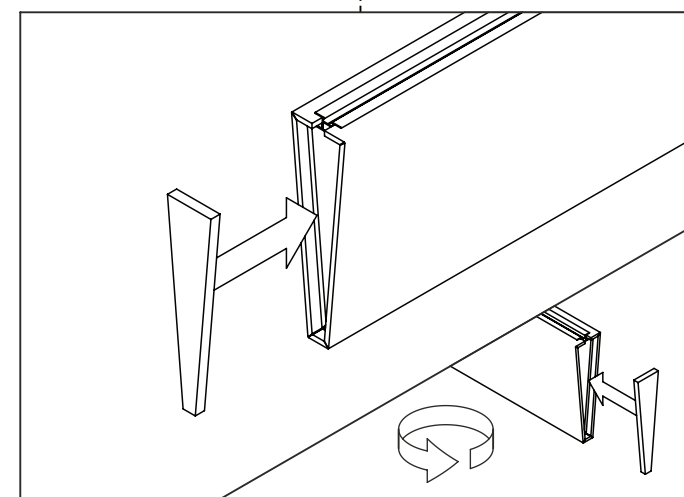
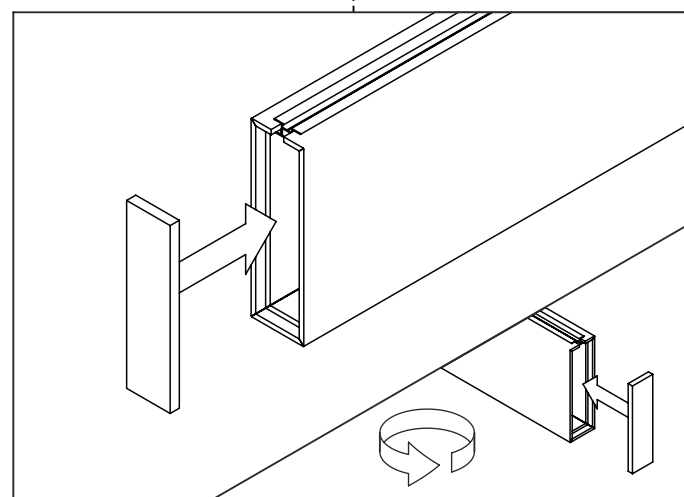
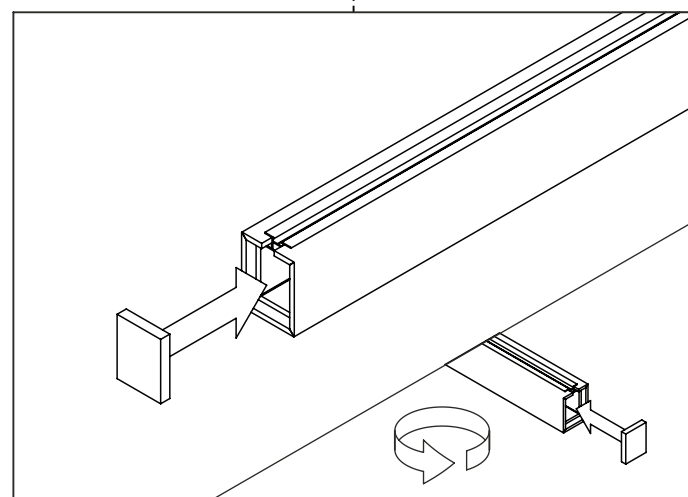
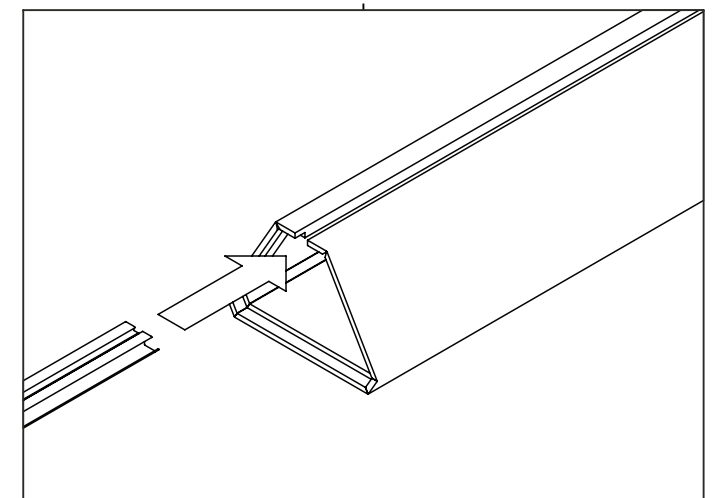
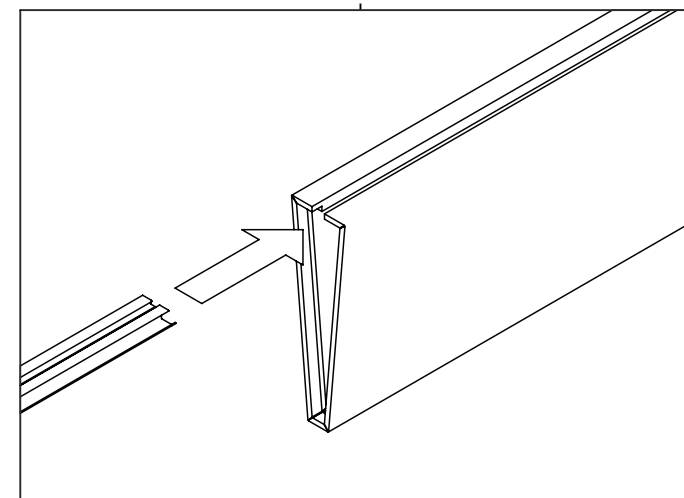
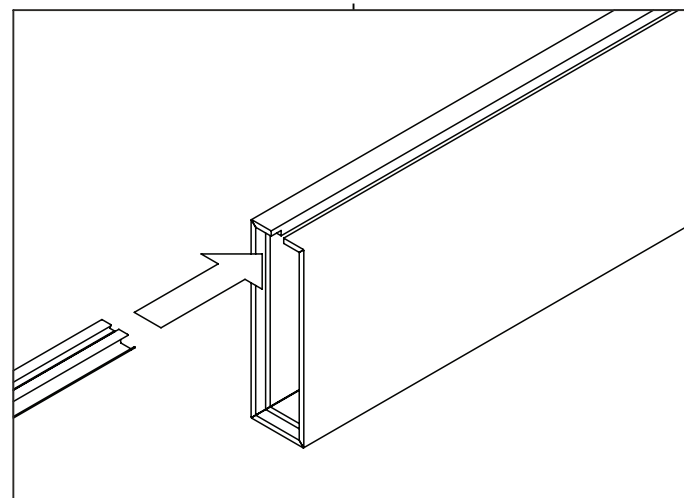
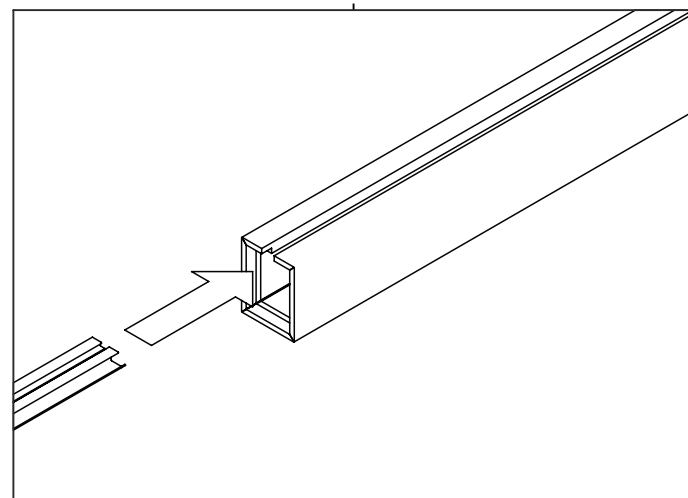
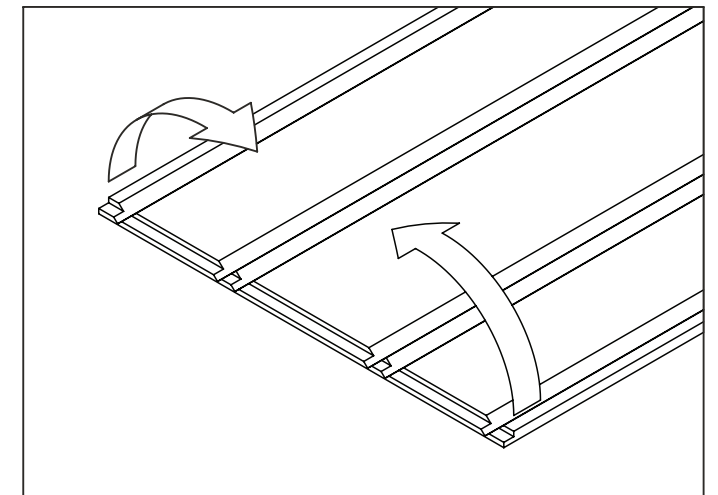
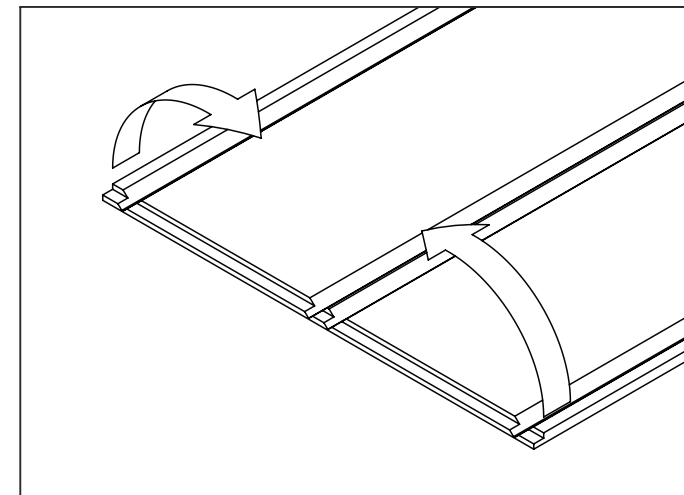
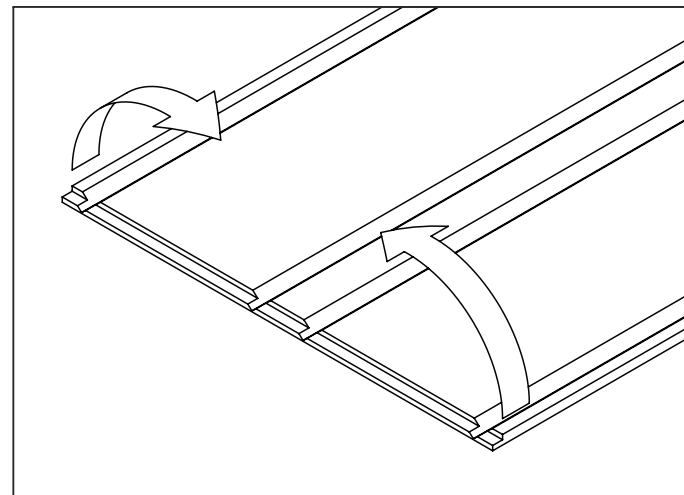
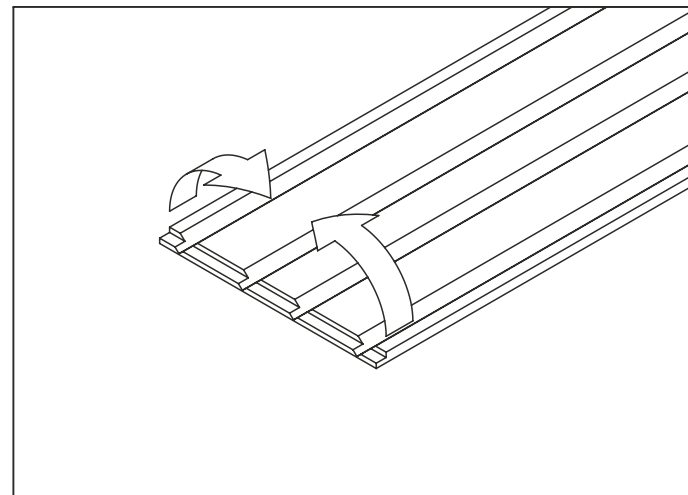
RAFT TRAPEZOID
1x Pack = 2.88m²

BEAM 100

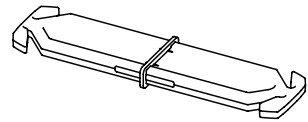
BEAM 250

BLADE

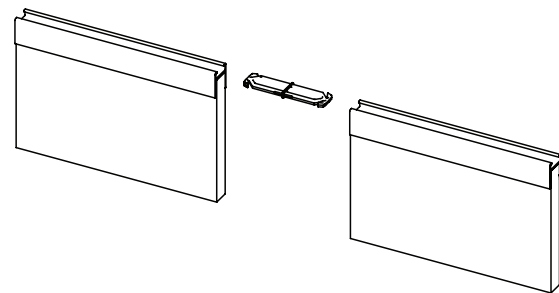
TRAPEZOID



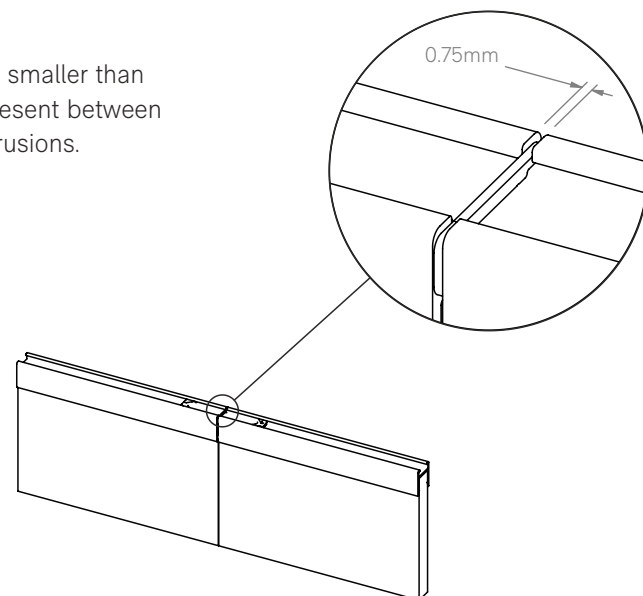
RAFCCT



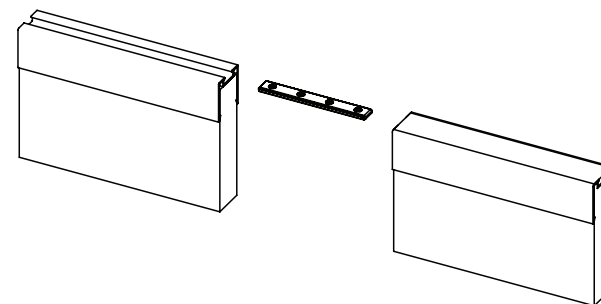
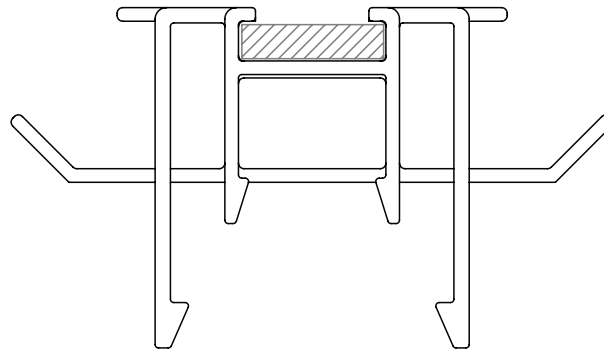
Light duty plastic connector used to join direct fixed rails.



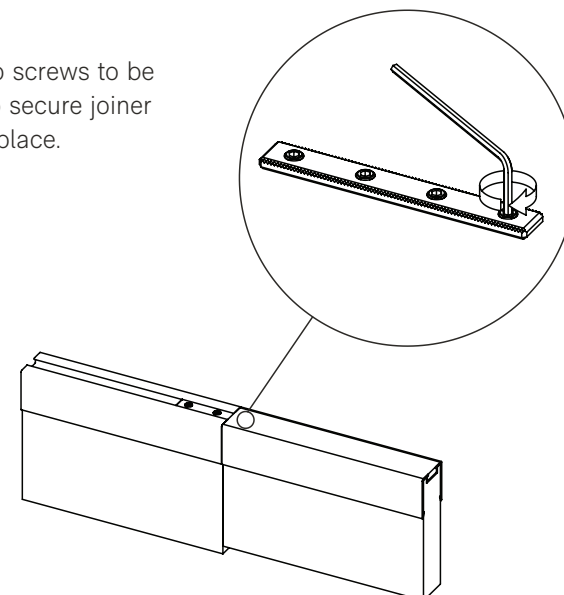
NOTE: A gap smaller than 1mm will be present between the extrusions.



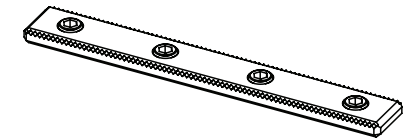
Both joiners are compatible with all extrusion sizes.



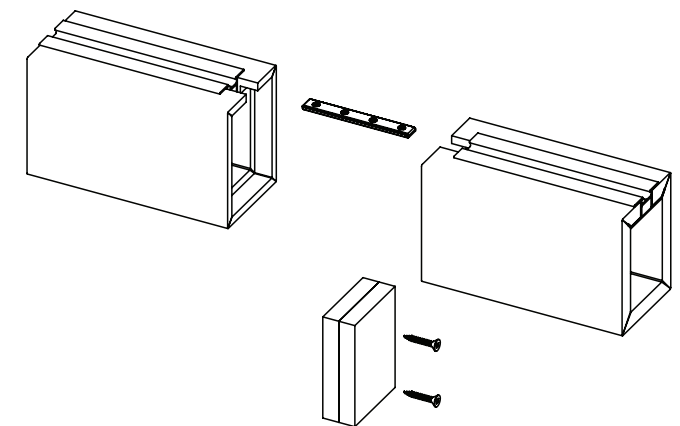
NOTE: Grub screws to be tightened to secure joiner in place.



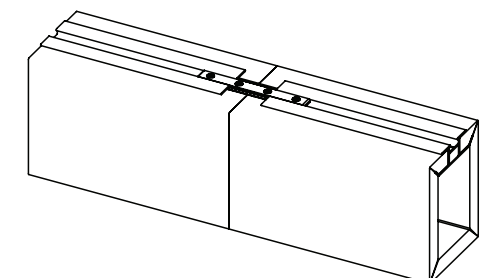
RAFHDCC

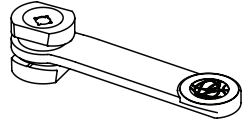


Heavy duty diecast connector with 4x grub screws used to join cross rails and/or suspended rails.

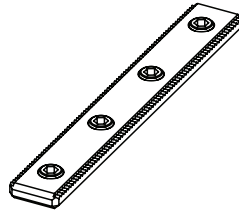


NOTE: In addition to joiner, screw the end caps together to create a cleaner join.

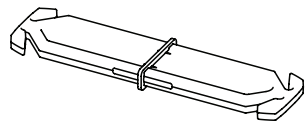




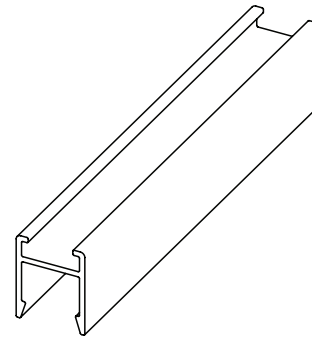
RAFTCC
Autex Mounting Clip



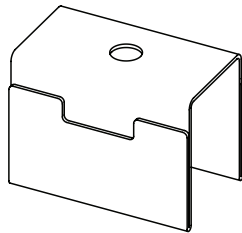
RAFHDCC
Autex Heavy Duty Frontier
Channel Connector with
4x M5 Grub Screws



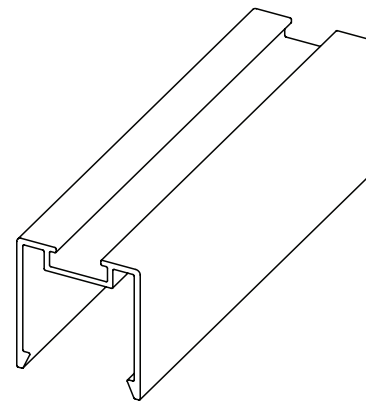
RAFCCT
Autex Frontier Channel Connector



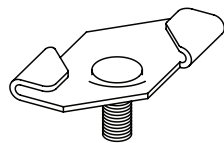
RAFEX
Frontier 12mm Extrusion



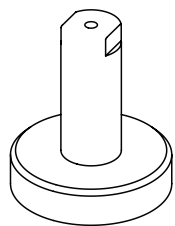
RAFWCP
Autex Removable W-Clip



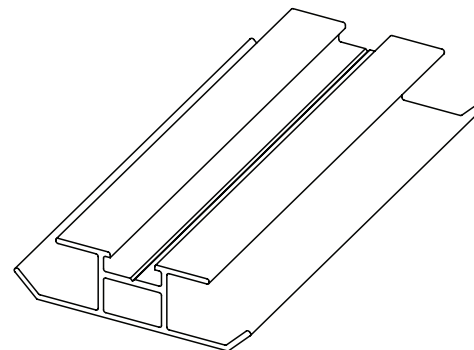
RAFEX24
Frontier 24mm Extrusion



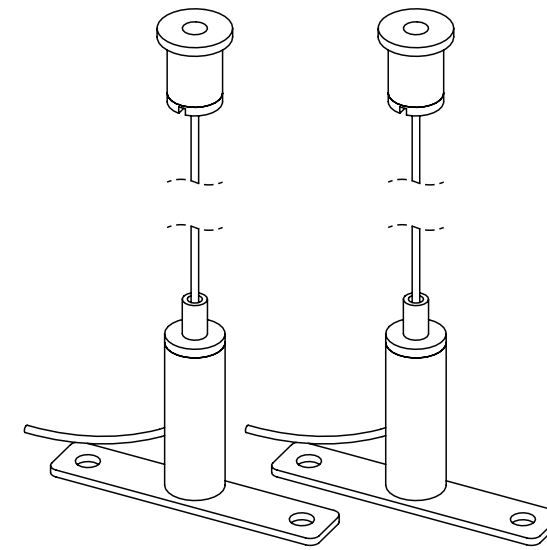
RAFM6GC
24mm Ceiling Grid Connector with
M6 Thread



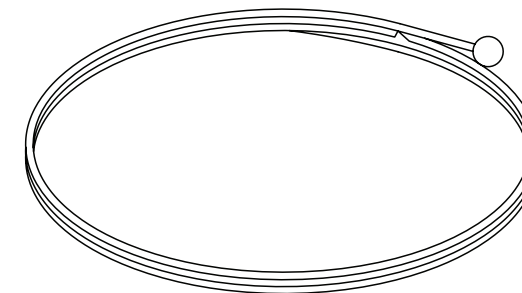
RAFM6MP
Magnet Pot with M6 Thread and
Cable Adaptor



RAFEXRT
Frontier Raft Extrusion

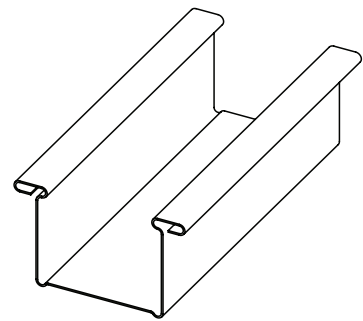


RAHVAS
Autex Adjustable
Suspension Set 1m
cable - Channel Connection

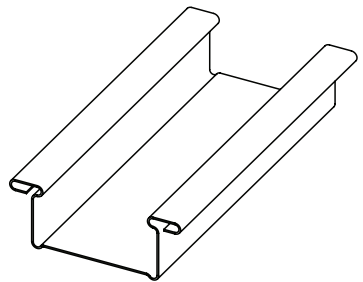


3m Steel Cable with Ball
End

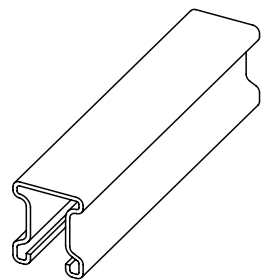
*Not supplied by
Autex, speak to Autex
Account Manager for
supplier options.



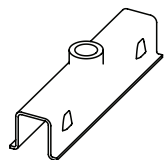
RONDO 129
28mm Furring Channel



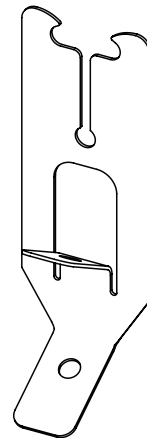
RONDO 308
16mm Furring Channel



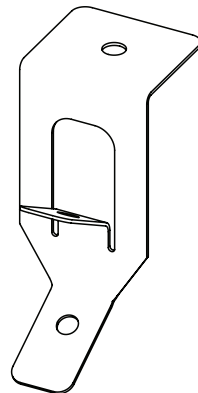
RONDO TCR 127
25mm Top Cross Rail



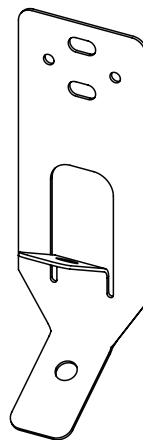
RONDO 119
U Clip



RONDO 2534
Top Cross Rail
Suspension Clip



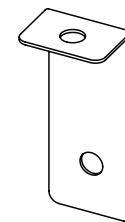
RONDO 547
Adjustable Suspension Hanger
(Concrete)



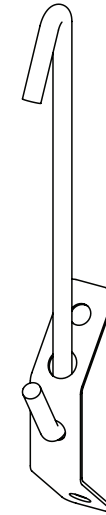
RONDO 534
Adjustable Suspension Hanger
(Purlins)



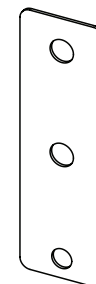
RONDO 121
5mm Soft Galvanised Suspension
Rod



RONDO 247
121 to Concrete



RONDO 719
Adjustable
Suspension Clip

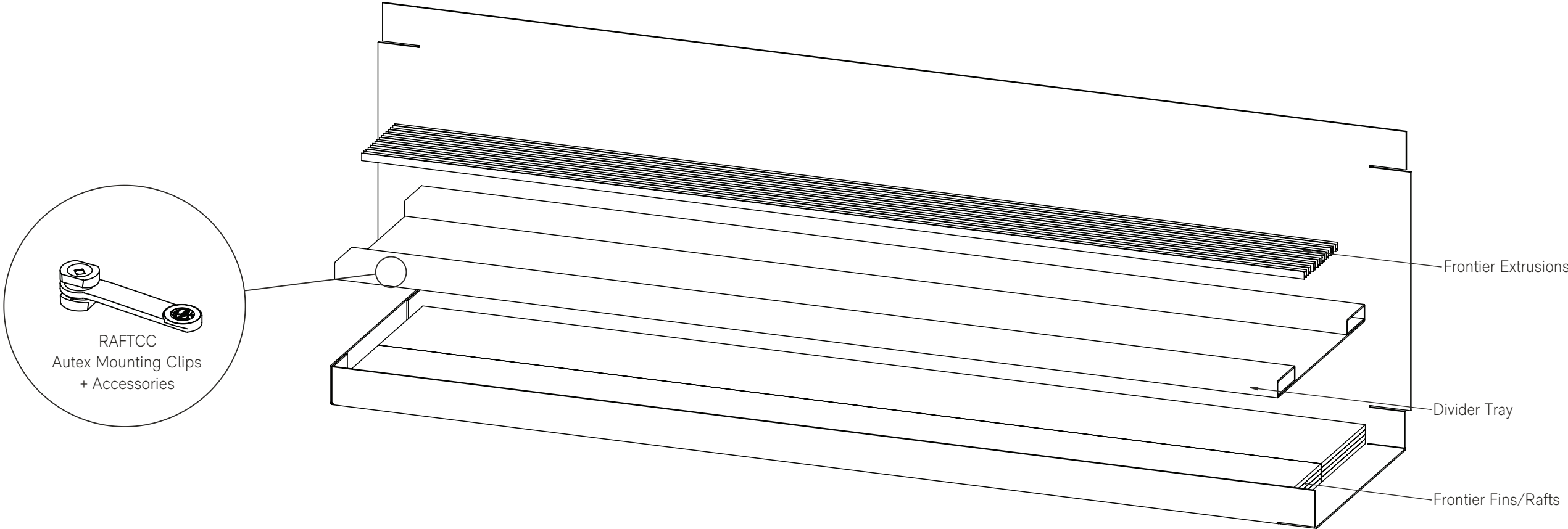


RONDO 274
121 to Timber
/Steel Joist

NOTE

Rondo components are supplied by a 3rd party and may not be available in all territories.

Other brands may have comparable components. Check with your account manager.



| STYLE | FIN LENGTH (mm) | FIN THICKNESS (mm) | FIN DEPTH** (mm) | FIN SPACING (mm) | FINS PER PACK | MOUNTING CLIPS | AREA PER PACK (m²) |
|-----------------------------|------------------|--------------------|-------------------|-------------------|----------------|----------------|--------------------|
| TUNDRA | 2400 | 12 | 100 | 100 | 24 | 48 | 5.76 |
| | 2400 | 12 | 150 | 150 | 16 | 32 | 5.76 |
| | 2400 | 12 | 200 | 200 | 12 | 24 | 5.76 |
| | 2400 | 12 | 300 | 300 | 8 | 16 | 5.76 |
| | 2400 | 24 | 100 | 100 | 12 | 24 | 2.88 |
| | 2400 | 24 | 150 | 150 | 8 | 16 | 2.88 |
| | 2400 | 24 | 200 | 200 | 6 | 12 | 2.88 |
| | 2400 | 24 | 300 | 300 | 4 | 8 | 2.88 |
| WAVE/DRAPE/ RIPPLE/GLIDE | 2400 | 12 | 150 | 150 | 16 | 32 | 5.76 |
| | 2400 | 24 | 150 | 150 | 16 | 32 | 5.76 |
| DUNE/SIERRA/TALUS | 2400 | 12 | 300* | 300 | 8 | 16 | 5.76 |
| | 2400 | 24 | 300* | 300 | 4 | 8 | 2.88 |
| AXIS | 2400 | 12 | 150 | 300 | 16 | 16 | 5.76 |
| RAFT STYLE | RAFT LENGTH (mm) | RAFT WIDTH (mm) | RAFT DEPTH** (mm) | RAFT SPACING (mm) | RAFTS PER PACK | MOUNTING CLIPS | AREA PER PACK (m²) |
| BEAM 100 | 2400 | 70 | 87 | 150 | 8 | 16 | 2.88 |
| BEAM 250 | 2400 | 70 | 227 | 300 | 4 | 8 | 2.88 |
| BLADE | 2400 | 70 | 247 | 300 | 4 | 8 | 2.88 |
| TRAPEZOID | 2400 | 200 | 137 | 300 | 4 | 8 | 2.88 |

*The Fin Depth of DUNE/SIERRA/TALUS fins vary but average out to 300mm

**Fin/Raft Depth is inclusive of extrusion