

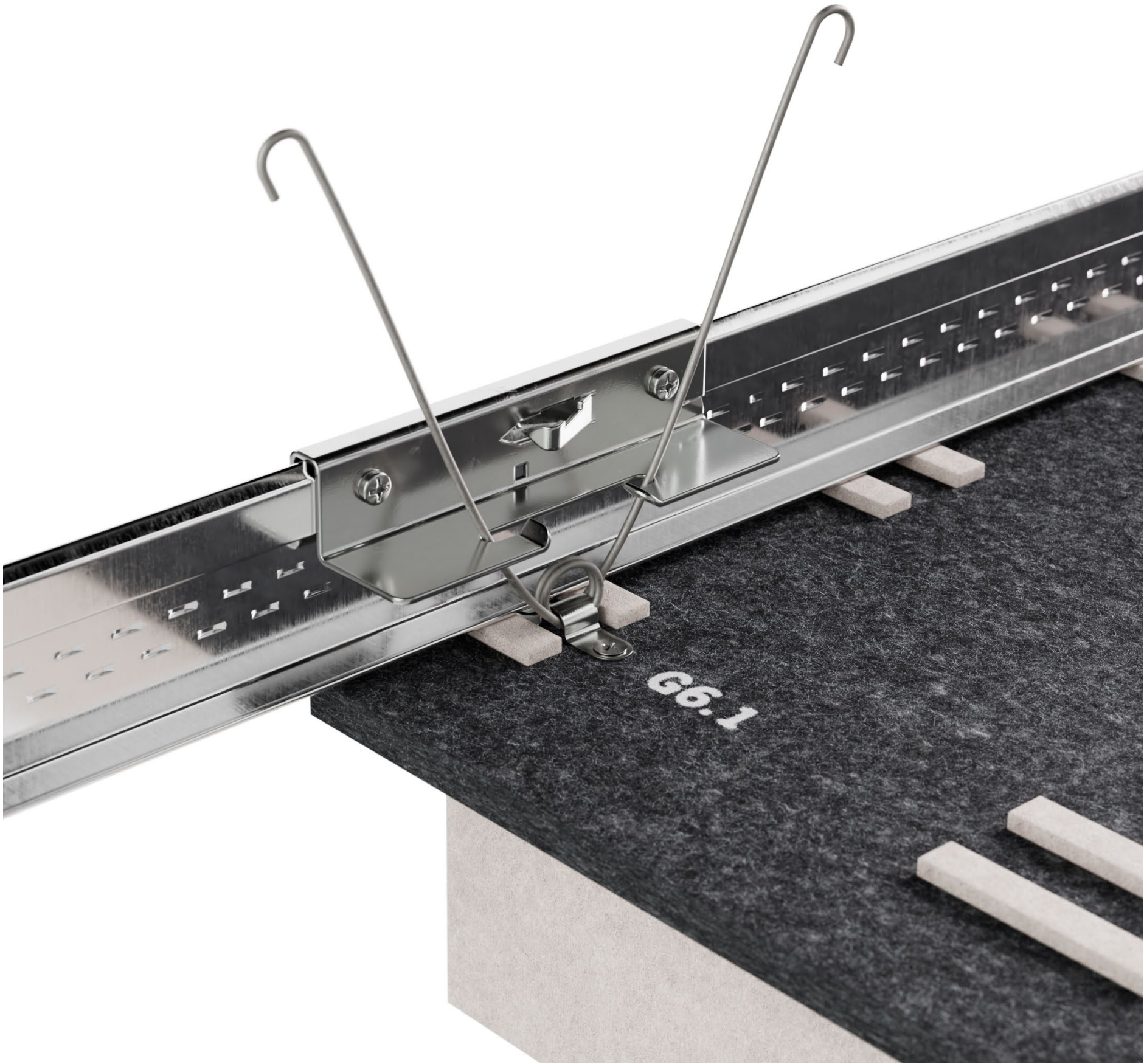
Ceiling Connection

Torsion Spring Guide

This step-by-step guide walks you through installing Turf products with our Torsion Spring connection. For specifics on your product, check the individual cut sheet.

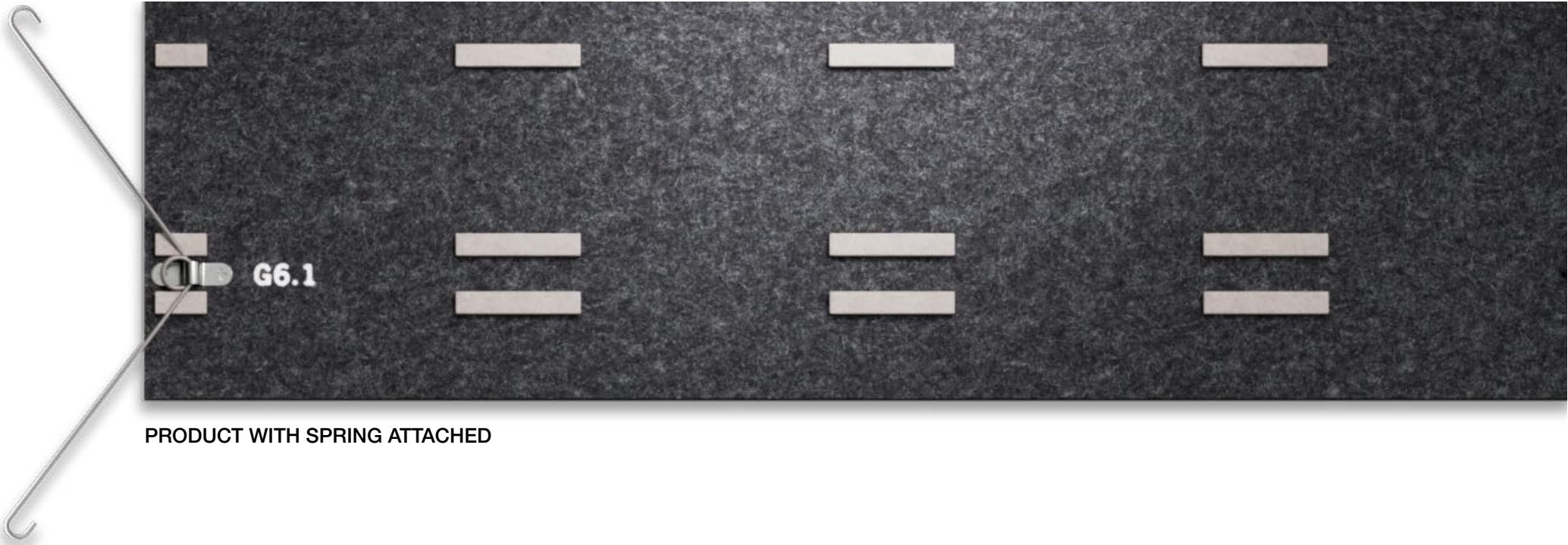
If you'd rather watch it in action, the video below covers the same process start to finish.

[Torsion Spring Animation](#)



Installation Components

Spring	Your panels ship with the spring already attached. Using one of our Formed Tile products instead? You'll attach the spring in the field - check the individual cut sheet for the specifics.
Heavy Duty Tee Grid	You'll need to supply one of the following tee grid options: 15/16" Flat Heavy Duty Tee Grid 9/16" Flat Heavy Duty Tee Grid Heavy duty is a must for this type of install, your mains and cross tees need to match in height.
Full and Half Saddles	Most layouts use a mix of full and half saddles. Both clip right onto the tee grid and hold your spring securely in place.
Screws	We'll provide #6 screws to secure your saddles to the tee grid.



PRODUCT WITH SPRING ATTACHED



15/16" FLAT HEAVY DUTY TEE GRID



9/16" FLAT HEAVY DUTY TEE GRID



FULL SADDLE



HALF SADDLE



SCREWS

Compatible Products

Torsion Spring Index	We're using a Grille panel here as our example, but this method applies broadly. Go to the last page in this doc to see our Torsion Spring Index, which provides a full list of compatible Turf products.
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Installation Guide - Part 1

Setting Saddles

Once your tee grid is installed, start by setting a saddle at every spring connection point.

Reference Drawings

Your Turf drawings will tell you saddle type, location, and panel details.

Use full saddles where panels meet on both sides of the grid, and half saddles along the edges of your layout.

1 - INSTALL TEE GRID AS REQUIRED

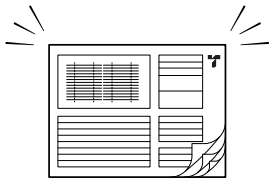


2 - FULL VS HALF SADDLE

FULL SADDLES ALLOW SPRING CONNECTIONS ON EITHER SIDE OF THE GRID

HALF SADDLES ARE USED FOR SPRING CONNECTIONS ON A SINGLE SIDE OF THE GRID

REFERENCE TURF DRAWINGS FOR SADDLE & PRODUCT LAYOUT



FULL SADDLE

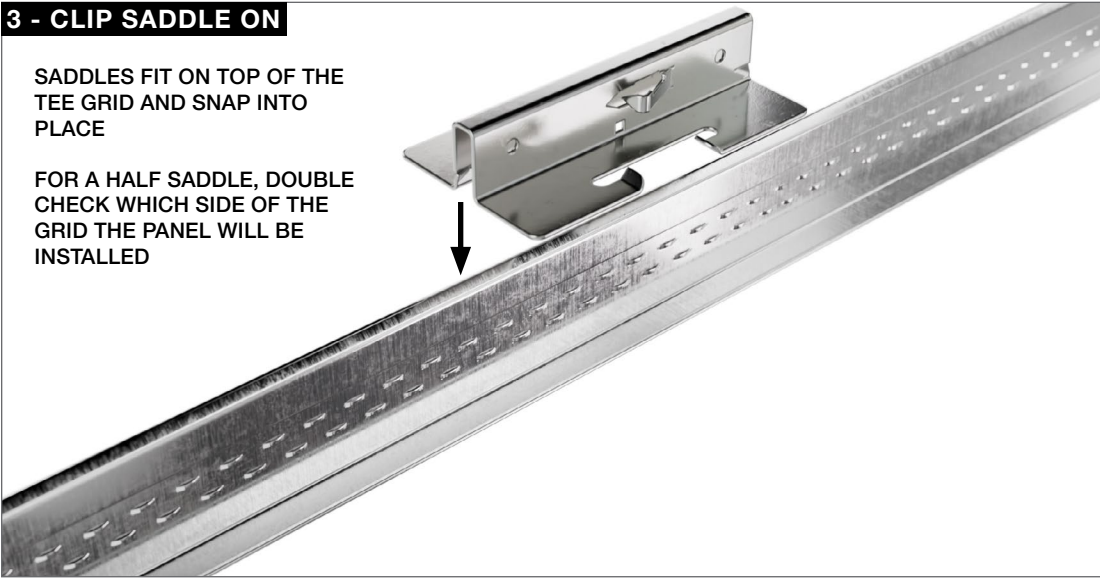


HALF SADDLE

3 - CLIP SADDLE ON

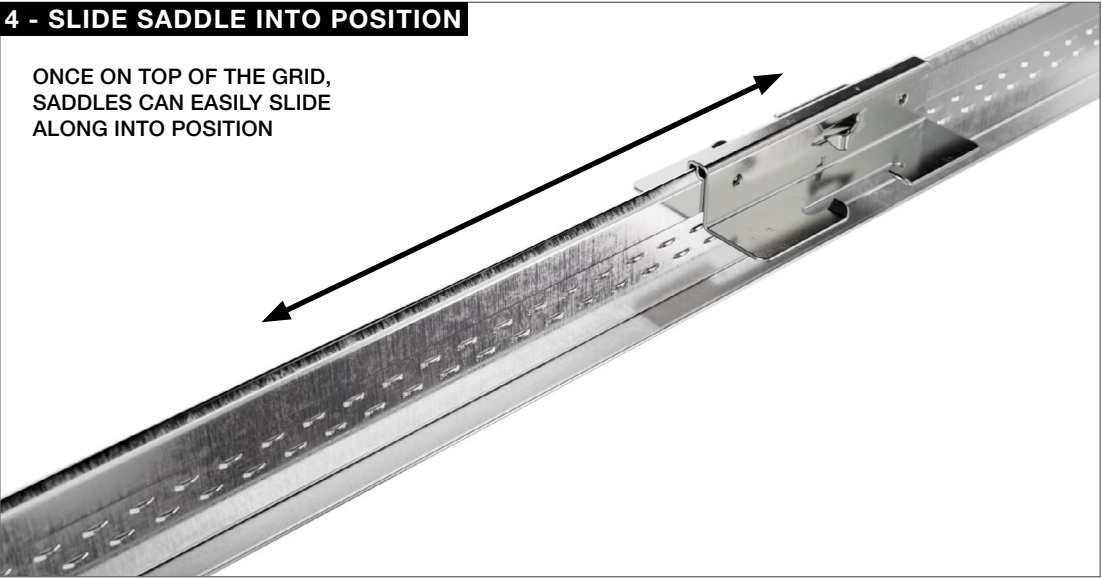
SADDLES FIT ON TOP OF THE TEE GRID AND SNAP INTO PLACE

FOR A HALF SADDLE, DOUBLE CHECK WHICH SIDE OF THE GRID THE PANEL WILL BE INSTALLED



4 - SLIDE SADDLE INTO POSITION

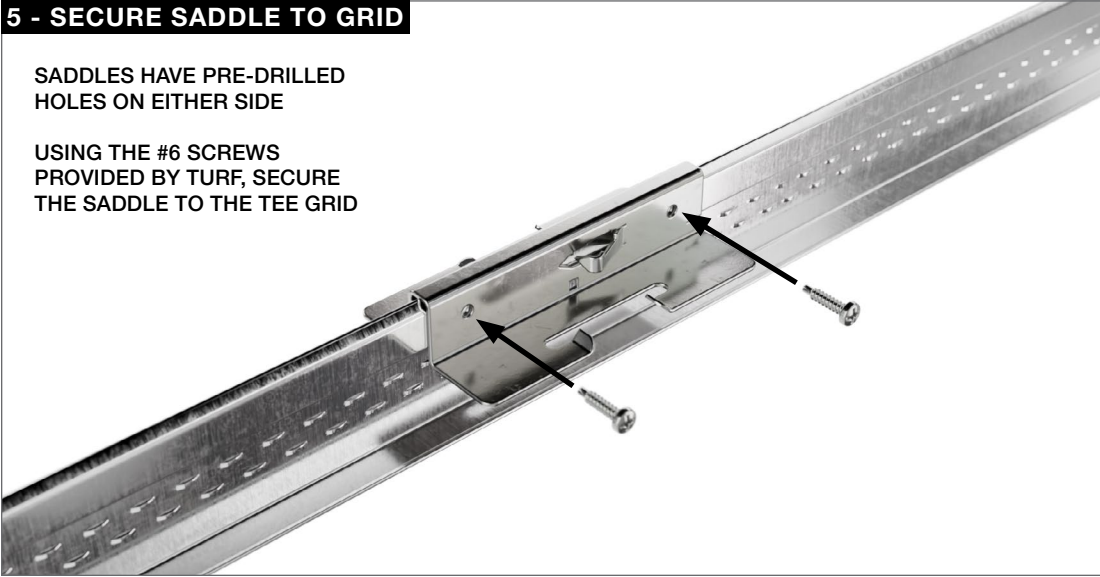
ONCE ON TOP OF THE GRID, SADDLES CAN EASILY SLIDE ALONG INTO POSITION



5 - SECURE SADDLE TO GRID

SADDLES HAVE PRE-DRILLED HOLES ON EITHER SIDE

USING THE #6 SCREWS PROVIDED BY TURF, SECURE THE SADDLE TO THE TEE GRID



6 - SADDLE INSTALLED



Installation Guide - Part 2

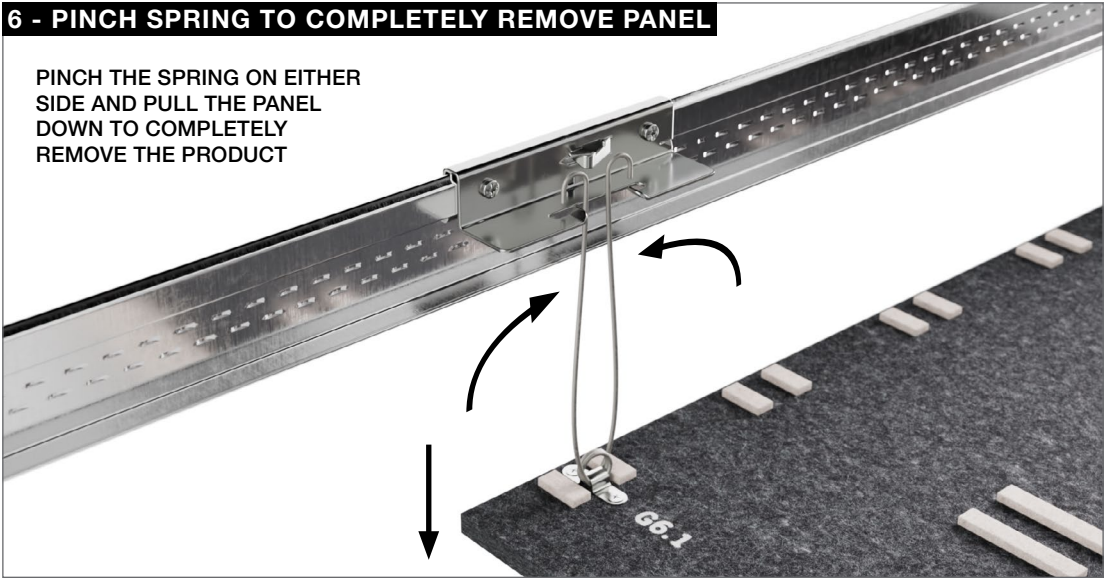
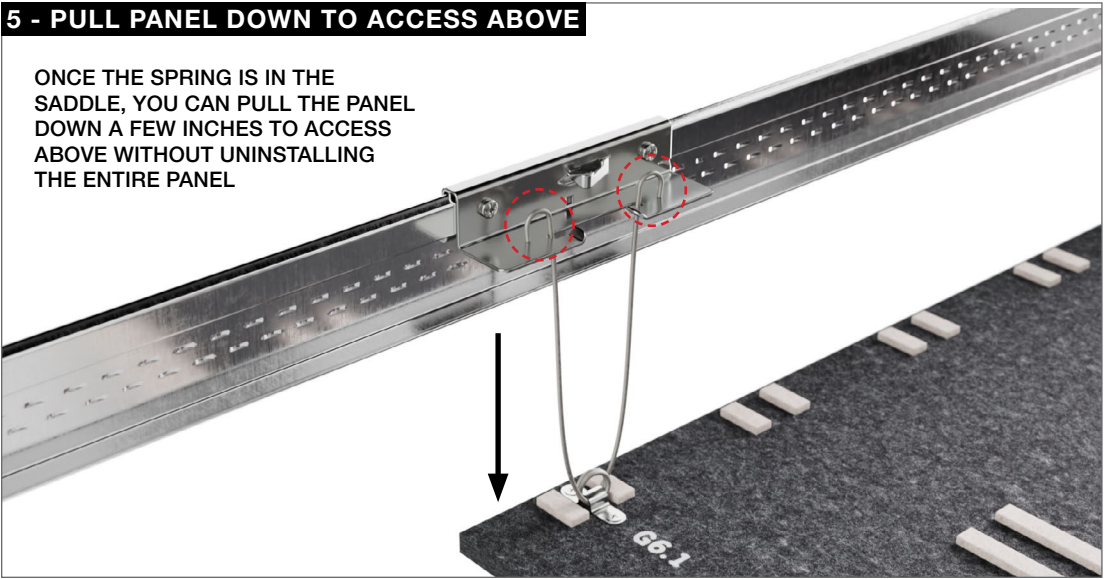
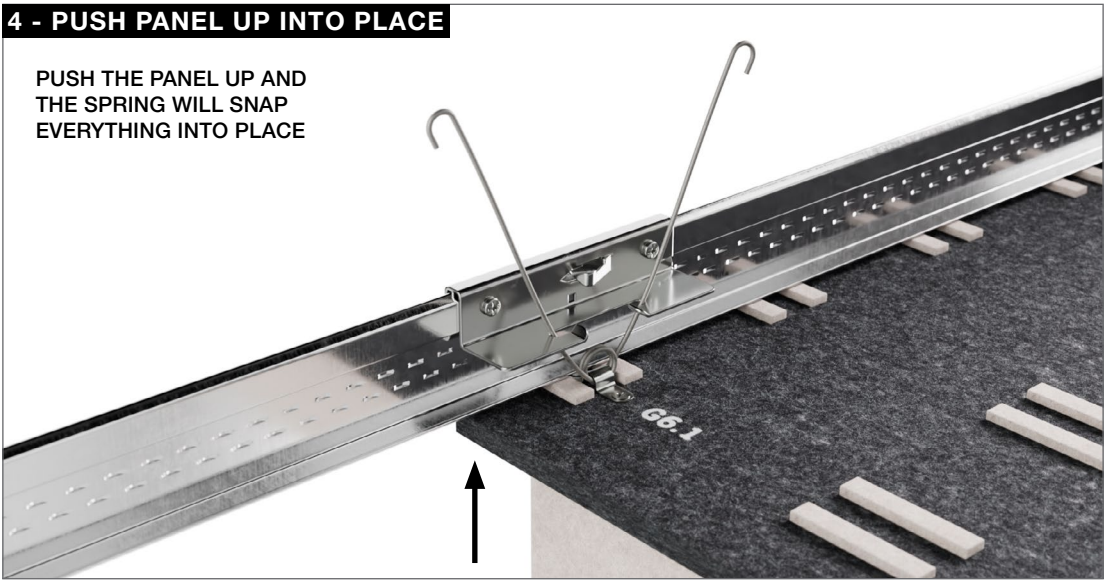
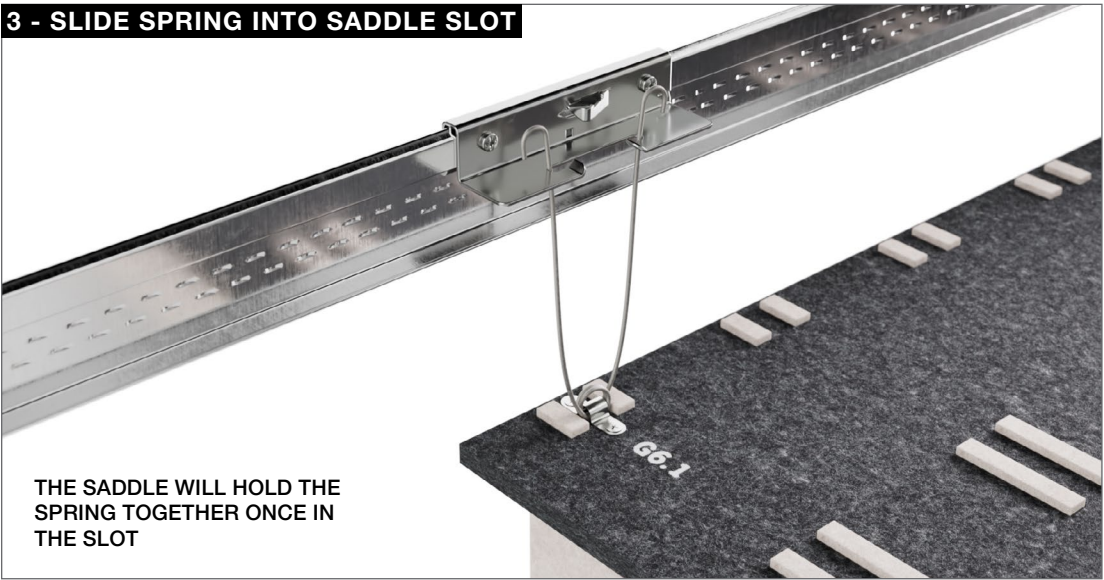
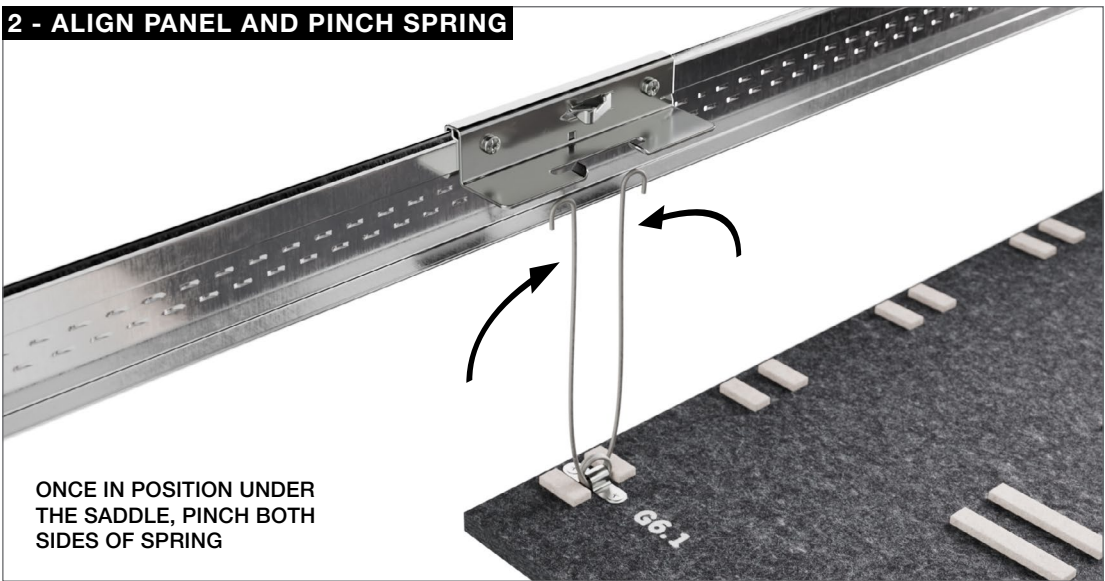
Set Springs into Saddles

With your saddles installed, the springs on the back of your product fit right into the saddle slots, locking everything into place.

Access Above

Need to access what's above? Pull the panel down a few inches - the spring will sit happily in the saddle while the product hangs below the grid.

Need more room than that? Just pinch the springs and remove the panel entirely.



Installation Guide - Part 3

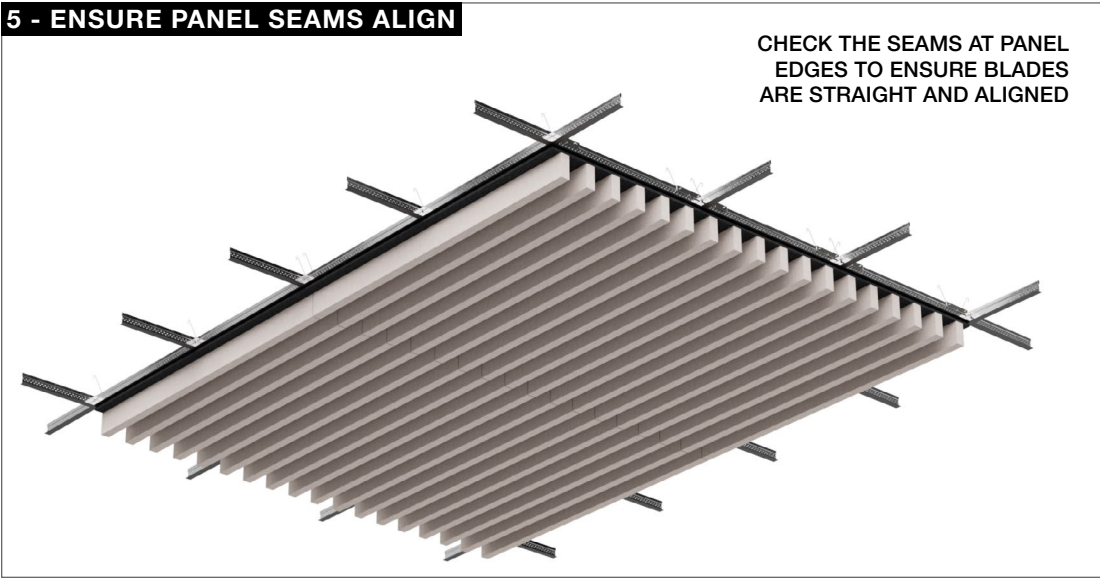
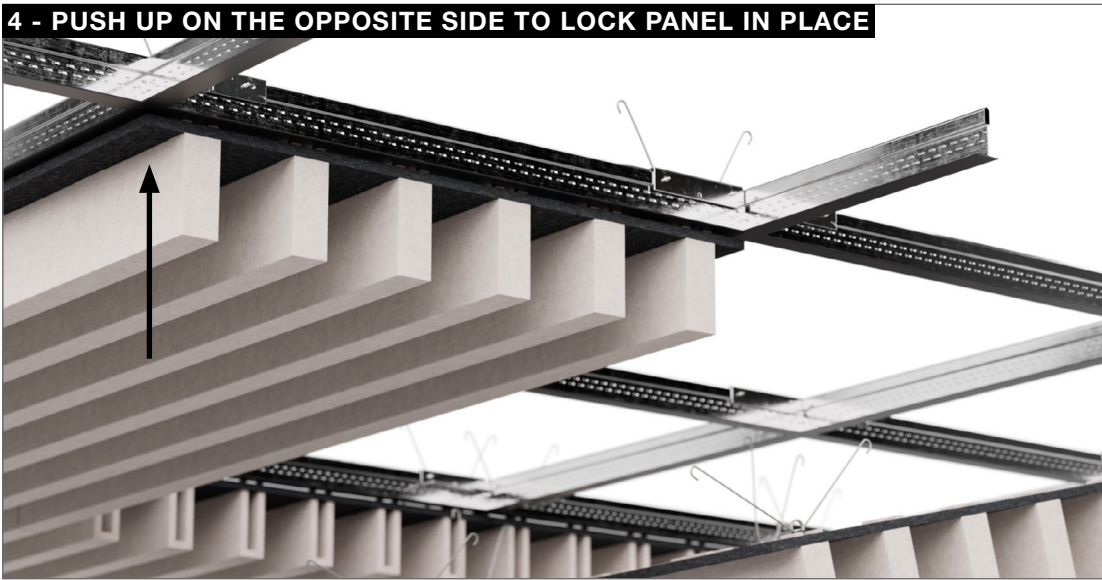
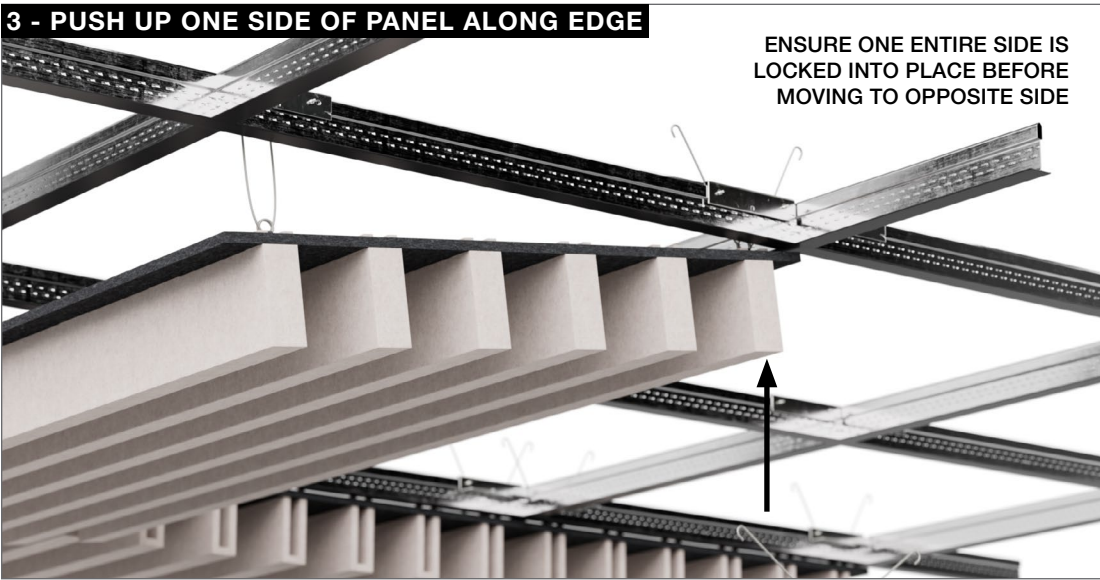
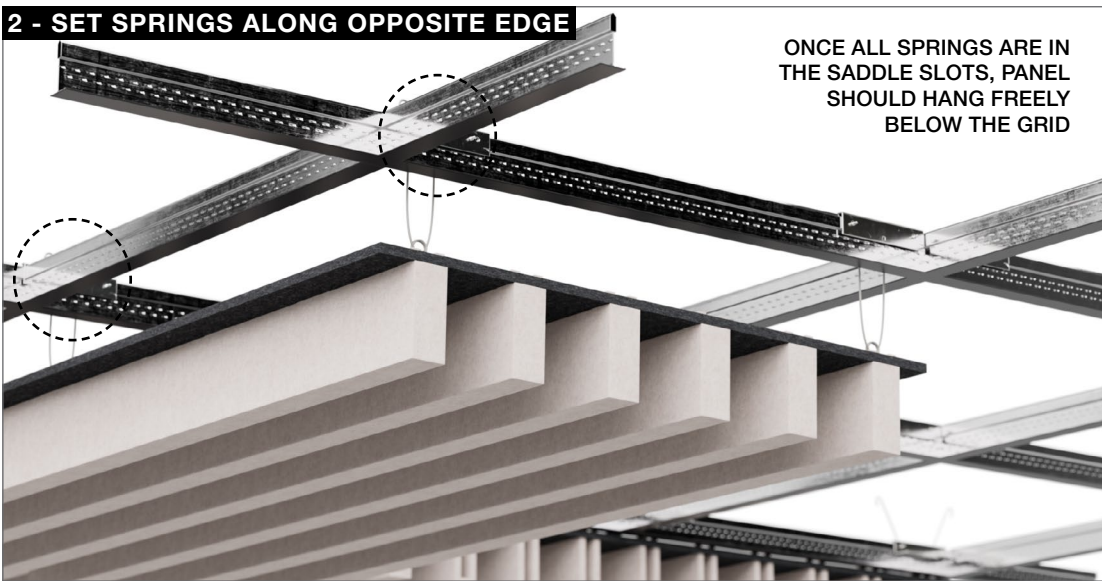
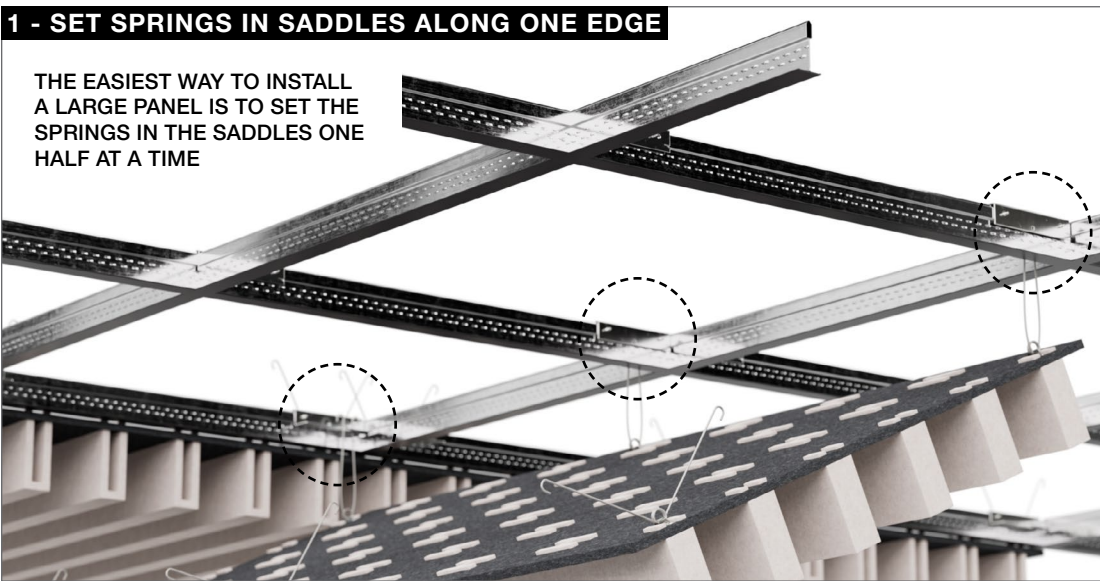
Installing Full Panels

Panels vary in size, but most will have six or more springs on the back.

The easiest approach for a large panel: set the springs in the saddles along one long edge first, then move to the opposite edge.

Panel Seams

Once installed, you can align any blade seams by hand - just gently push the felt into position.



Moving Connections

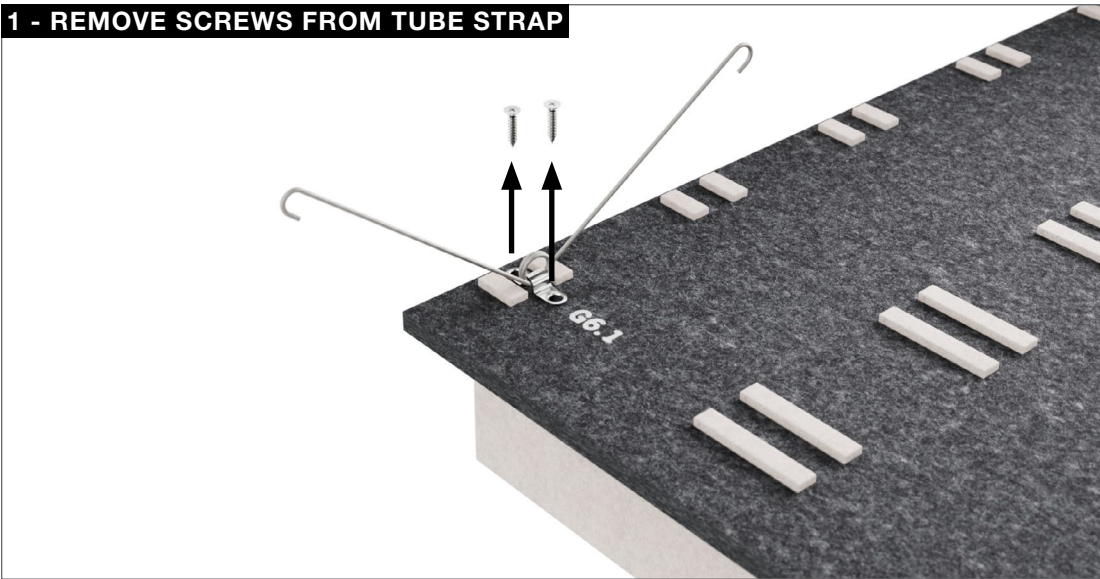
Torsion Spring Saddles

If obstructed access on-site means you need to move a spring, here's how.

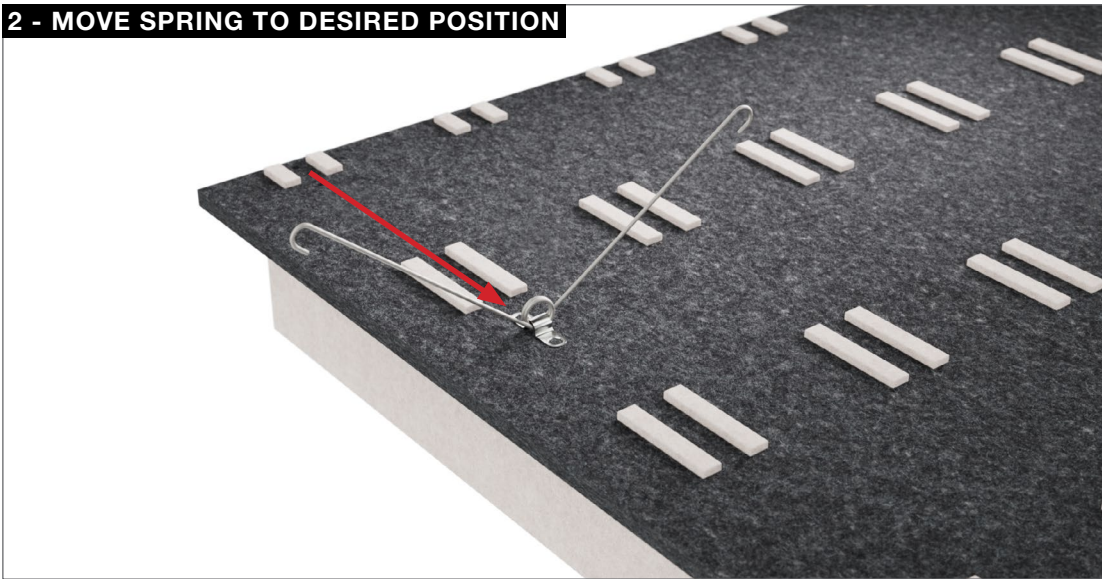
Panel Maximum Cantilever

Moving a connection at the end of a panel? Keep the new spring position within 12" from the panel edge.

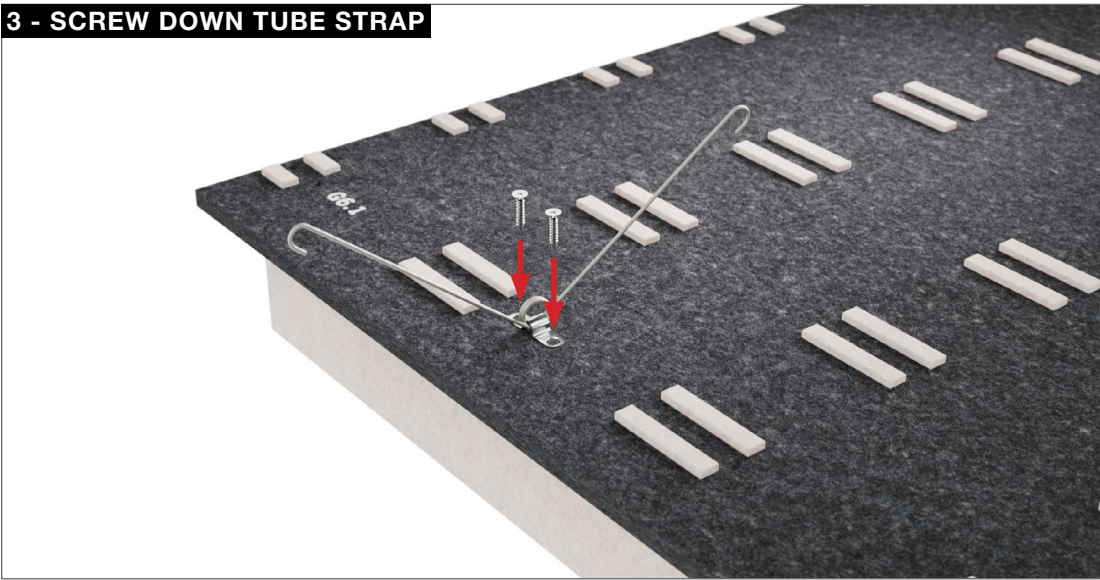
1 - REMOVE SCREWS FROM TUBE STRAP



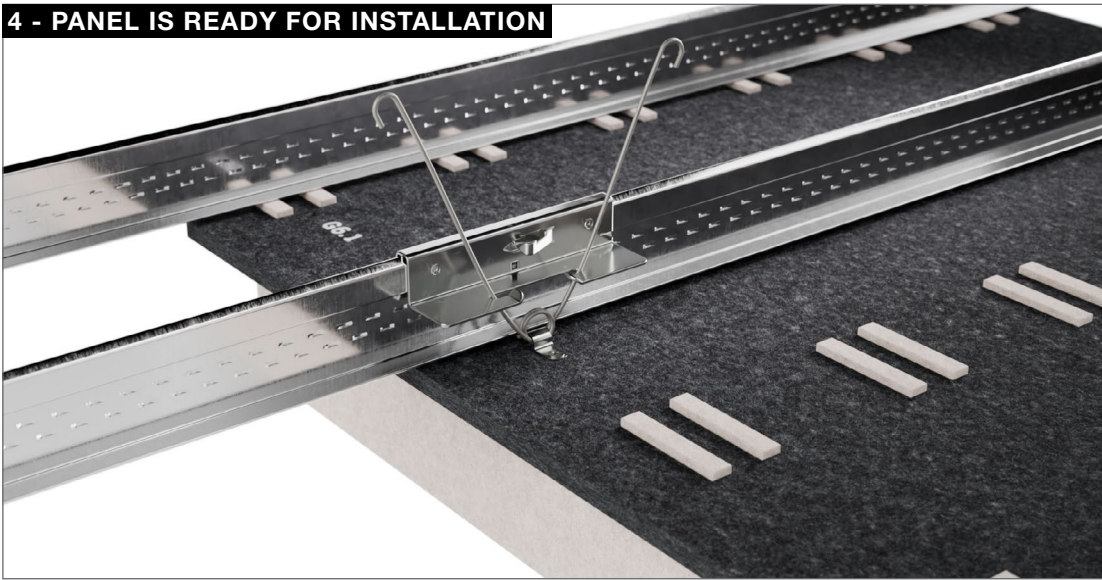
2 - MOVE SPRING TO DESIRED POSITION



3 - SCREW DOWN TUBE STRAP



4 - PANEL IS READY FOR INSTALLATION



Torsion Spring Index

Available Products

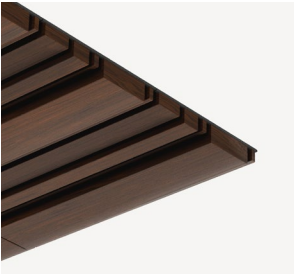
All of the products listed are compatible with the Torsion Spring connection.

Click the name of any product to pull up more information.

Formed Tiles

Formed Tiles ship with some additional loose hardware for their Torsion Spring connections, plus a few extra steps to secure the spring to the tile - check the individual cut sheet for the specifics.

SCAPES



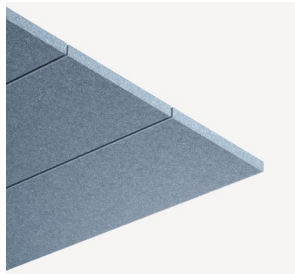
BARCODE



GRILLE

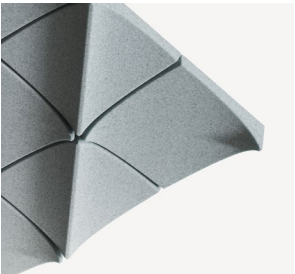


LINEAR

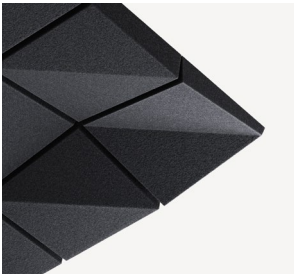


MEGALITH

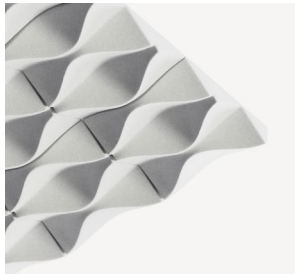
FORMED TILES



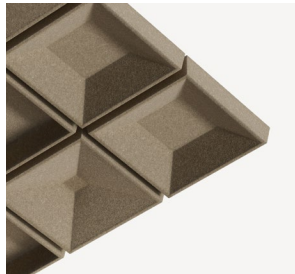
ARCADE



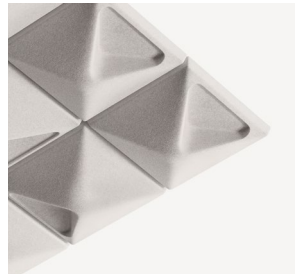
CREASE



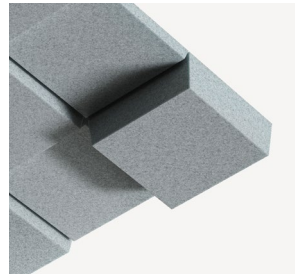
MESH



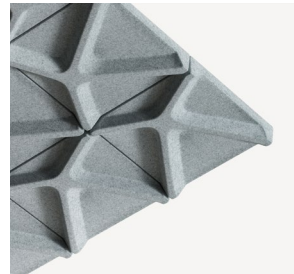
PORT



PYRAMID



URBAN



VORONOI

