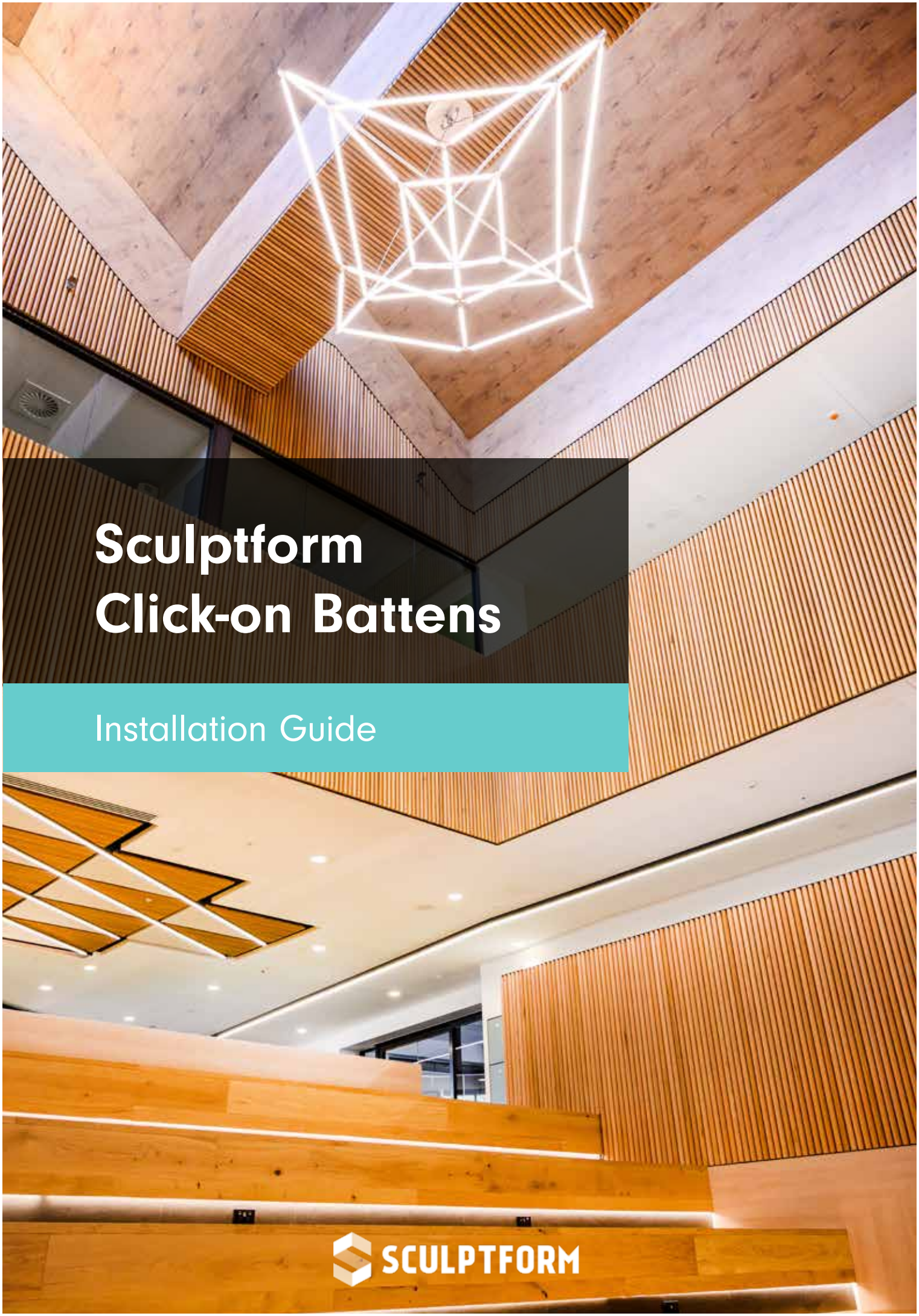


Sculptform Click-on Battens

Installation Guide

SCULPTFORM

IMPORTANT

This installation manual is intended to provide information that will enable designers, builders and owners to execute their projects effectively. Not all project types, design requirements and installation scenarios will be covered. The Sculptform team are happy to assist with project-specific solutions by contacting us on 1800 008 828 or emailing support@sculptform.com.au.

Product recommendations throughout the manual are based on proven performance, however this does not mean that alternative uses are not possible. Differing expectations of what is considered “good performance” will vary, and Sculptform takes no responsibility for what may be considered “product failure.” It is important for designers, builders and owners to fully understand the product before making final selections.

It is the responsibility of designers, builders and owners to ensure that the information in this manual is current, by checking with Sculptform or referring to our website sculptform.com.au. As new technology is introduced or industry standards are altered, Sculptform reserves the right to alter existing specifications and delete product without notice.

The use of this manual does not:

- guarantee acceptance or accreditation of a design, material or building solution by any entity authorised to do so under law;
- mean that a design, material or building solution complies with the National Construction Code; or
- absolve the user from complying with any local, State, Territory or Government legal requirements.

Taking delivery

After being tallied and quality checked, each order is carefully packed, strapped and shrink wrapped. Our logistics department then arrange transport directly to your job site.

The following steps should be taken when accepting delivery:

1. Check against the consignment note that you have the correct quantity of packs.
2. Assess the overall condition of the packs. If there is any damage it should be recorded on the delivery document which is returned to the driver and the supplier must be notified immediately.
3. Find the packing slip which will be in a plastic sleeve on one of the packs. Check that every item is there and that the quantity is correct.
4. Do a quality check.
5. Notify Sculptform within 7 days of delivery if any items are out of specification.

Onsite storage

Sculptform kiln dry the timber to the midpoint of the average moisture content annual cycle in Australia. For this reason it is normally unnecessary to acclimatise the timber prior to installation. In actual fact it is best to install the timber as soon as possible after machining so that it maintains its accuracy and straightness.

- If possible the timber should be kept in its original pack until installation. If it is repacked, it should be done the same as the original pack to maintain straightness and quality.
- Ensure that it is at least 50mm above ground and stored on a flat surface to prevent bowing.
- It should be stored in a cool dry place out of the weather until ready to install.

Contents

The Click-on Batten System

1. Fixing screw

Standard mounting track fixing screw appropriate for substrate. Not supplied by Sculptform

2. Mounting track

Batten clips are factory pre-fixed at your desired spacing/sequence. Mounting track is screw fixed to wall or substrate.

3. Batten clip

Designed for fast and easy click-on installation of the battens.

4. Acoustic backing

Optimal backing for interior application, providing acoustic performance.

5. Battens

Feature battens are available in solid timber or aluminium, in a range of shapes, sizes and coating options. Battens can be spaced and sequenced in your desired combination.

The Components

Mounting track types

Note: Screw fixing to suit substrate, not supplied by Sculptform.

Standard - 45x17mm

Recommended screw fixing centres:
600mm Interior / 450mm Exterior

Used for both direct fix walls and ceilings.

Suspended ceiling - 45x30mm

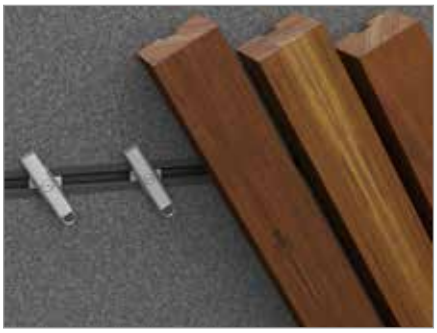
Designed to snap into standard suspended ceiling systems (Rondo) and replaces the furring channel.
Suspended ceiling system not provided by Sculptform.

Curving - 45x17mm

Recommended screw fixing centres:
300mm Interior / 200mm Exterior

Direct fix clip

Used when battens are required to be fixed individually without a mounting track. The direct fix clip is directly screwed to the substrate.

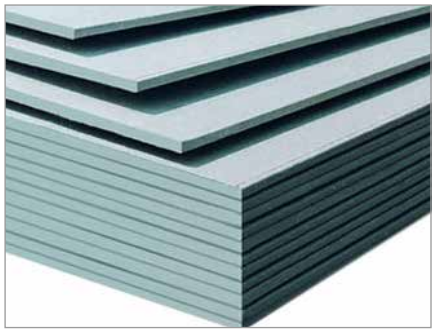


Swivel clip

Specifically designed clip used to fix battens at any desired angle.

External corner

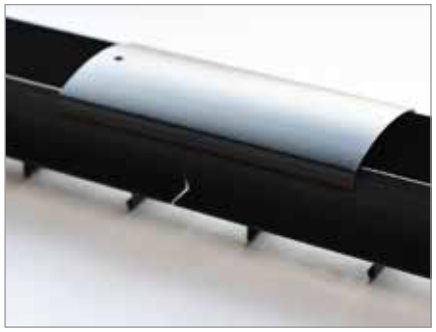
Wrap around external corners require the use of a specifically designed corner clip which simply clicks into mitred standard mounting track.
The corner batten is screw fixed first, followed by the click-on battens.
See page 15.



Acoustic backing

Incorporated into the system to not only be a great acoustic solution but also replaces the need to plaster and paint a wall or ceiling behind the battens.

Acoustic backing is cut to suit 600mm mounting track centres.



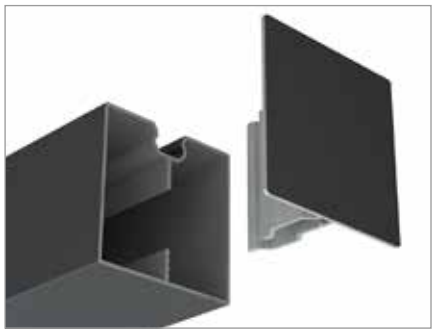
Ceiling mounting track joiner

Used to align the mounting tracks at end-to-end joins and uses a simple push-fit connection.

This joiner is only used with the ceiling mounting track.

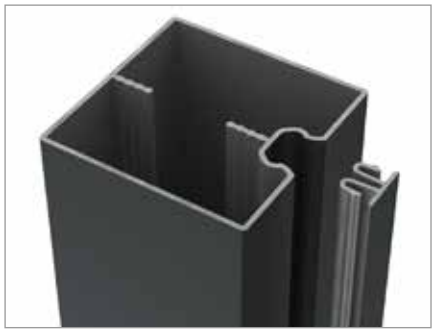
Aluminium batten joiner

Where aluminium battens require joining off a clip, Sculptform provides a specially designed batten joiner to align the butt ends. The joiner slides into the dovetail groove in the back of each batten. If required, screw holes are provided for fixing.



End caps

Where aluminium batten ends are visible, end caps are provided by Sculptform for a seamless look. Powder coated to match your battens, installation is easy with a push-fit connection.

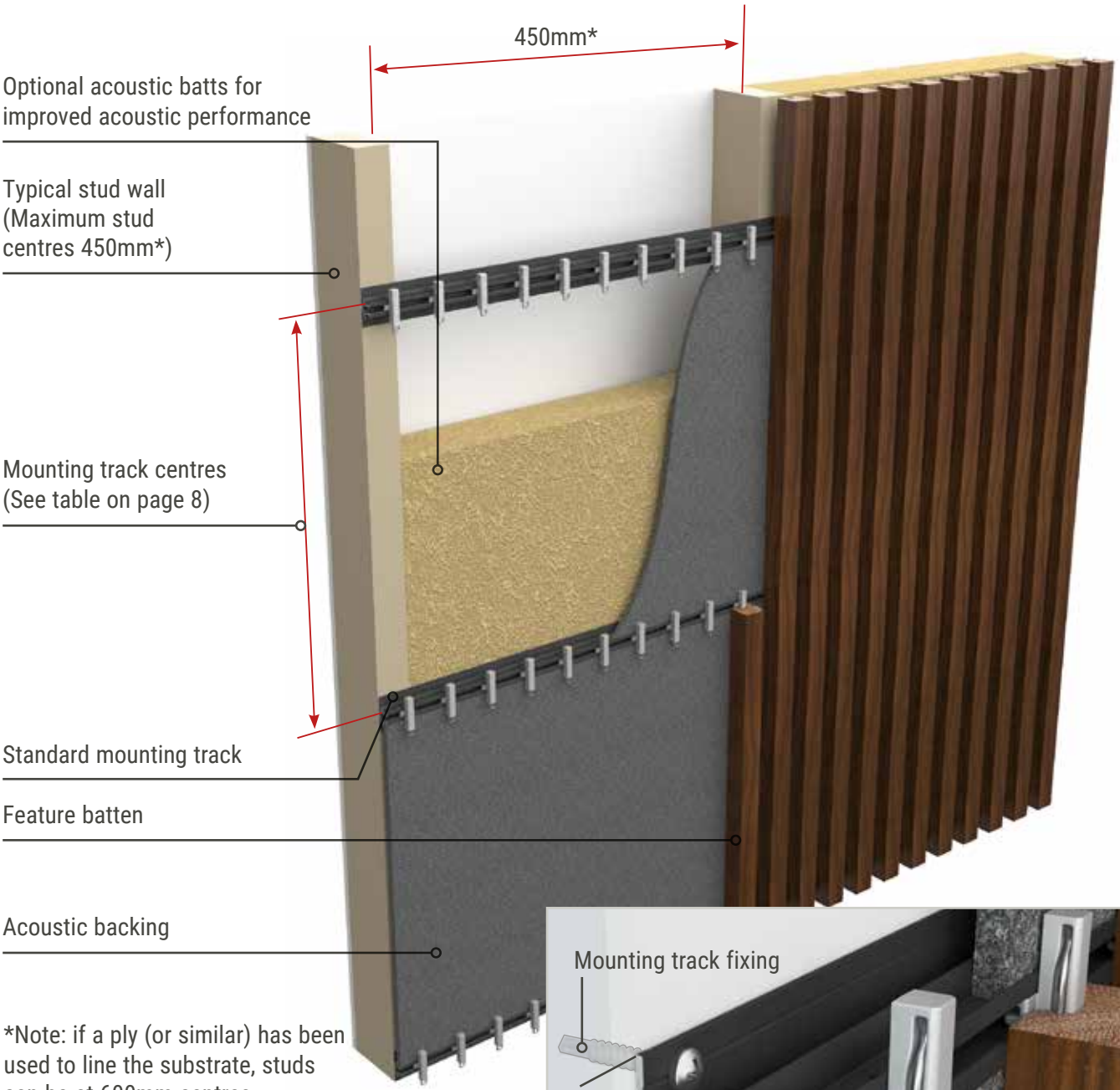


Back cover strip

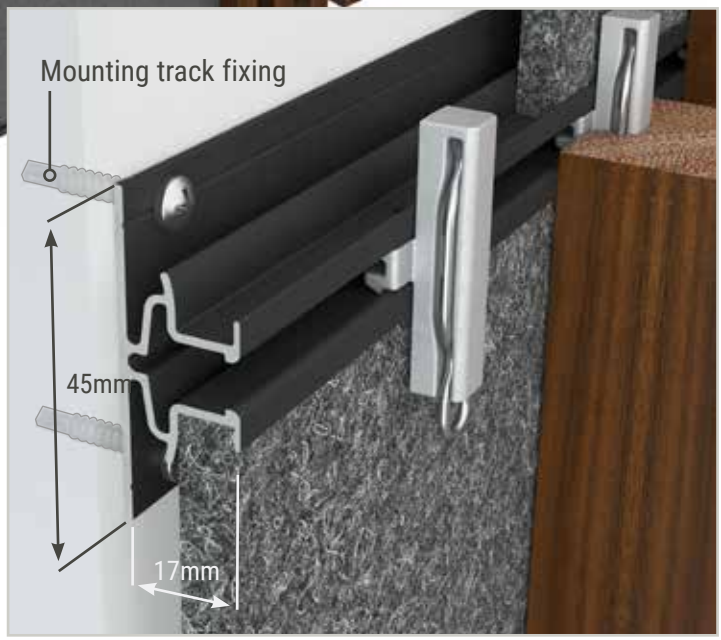
Where the back of the batten is visible, and the visual of the fixing groove is not desired, an aluminium back cover strip is provided. The strip can be coated to match the coating of the battens.

Click-on Battens Install Procedure

Walls and direct fix ceilings



*Note: if a ply (or similar) has been used to line the substrate, studs can be at 600mm centres.



Standard mounting track specifications

- Aluminium extrusion
- Standard 3.8m lengths
- Powder coated matt black

1. Check your substrate

Firstly, you need to ensure your base substrate is plumb and straight.

Base substrate (studs) should be running the same way the Click-on Battens intend to run. If this is not the case, install 70x30mm pine framing battens (or top hats) to build a frame which runs perpendicular to your mounting tracks (the same direction of your battens).

PLEASE NOTE:

The mounting track is designed to span a maximum of 450mm, if your studs are spaced at over 450mm, either install intermediate framing or line your substrate with plyboard, plasterboard or similar to support the track.

2. Mounting track setout

For vertical battens, the aluminium base angle (see page 12) should be fitted first at the required height. The base of the battens will rest on this angle for installation, with the angle preventing batten slippage. If the base angle is not being used, see the alternative anti-slip detail on page 13.

Run your first mounting track, **with the loops of the clips facing down**, roughly 100mm from the base angle or end of battens if no base angle is used.

PLEASE NOTE:

The next mounting track should be installed 600mm from the end of your battens (or base angle) to ensure your incremented battens will always join on a clip.

Install each subsequent track after that at 600mm centres (for timber) or 1200mm centres (for aluminium). See table below.

Mounting track centres

Batten Material	Application	
	Interior	Exterior
Timber	600mm	450mm
Aluminium	1200mm	1200mm

The last mounting track should be no more than 100mm from the end of the battens when spacing between the battens is under 20mm.

PLEASE NOTE:

For sequences with spacing over 20mm, a maximum cantilever of 300mm is acceptable when using timber battens. For aluminium battens, a 600mm cantilever is acceptable for internal applications, and 400mm for external.

Once the tracks are up, install the acoustic backing. Backing can be cut to size with a Stanley knife and is held in place by the specially designed recesses in the mounting track. To fit the backing into place, slide the bottom edge into the recess, then flex the backing to allow the top edge to fit under the clips and into the recess. A flathead screwdriver is useful for levering the backing under the clips.

3. Installing the battens

The battens should be installed with a white rubber mallet (to avoid marking), starting from the bottom and working your way up.

Lightly tap the batten at the clip to fully engage the connection, batten should be sitting against the track when engaged.

If a batten needs to be removed, use Circlip pliers or a flathead screwdriver to lever the throat of the mounting track open. While doing this lightly, pull the batten until the clips come free of the track. Clips can then be slid out of the batten.

PLEASE NOTE:

Battens must be joined on a clip to ensure alignment. Ensure joins are staggered randomly and not following a pattern or on the same clip.

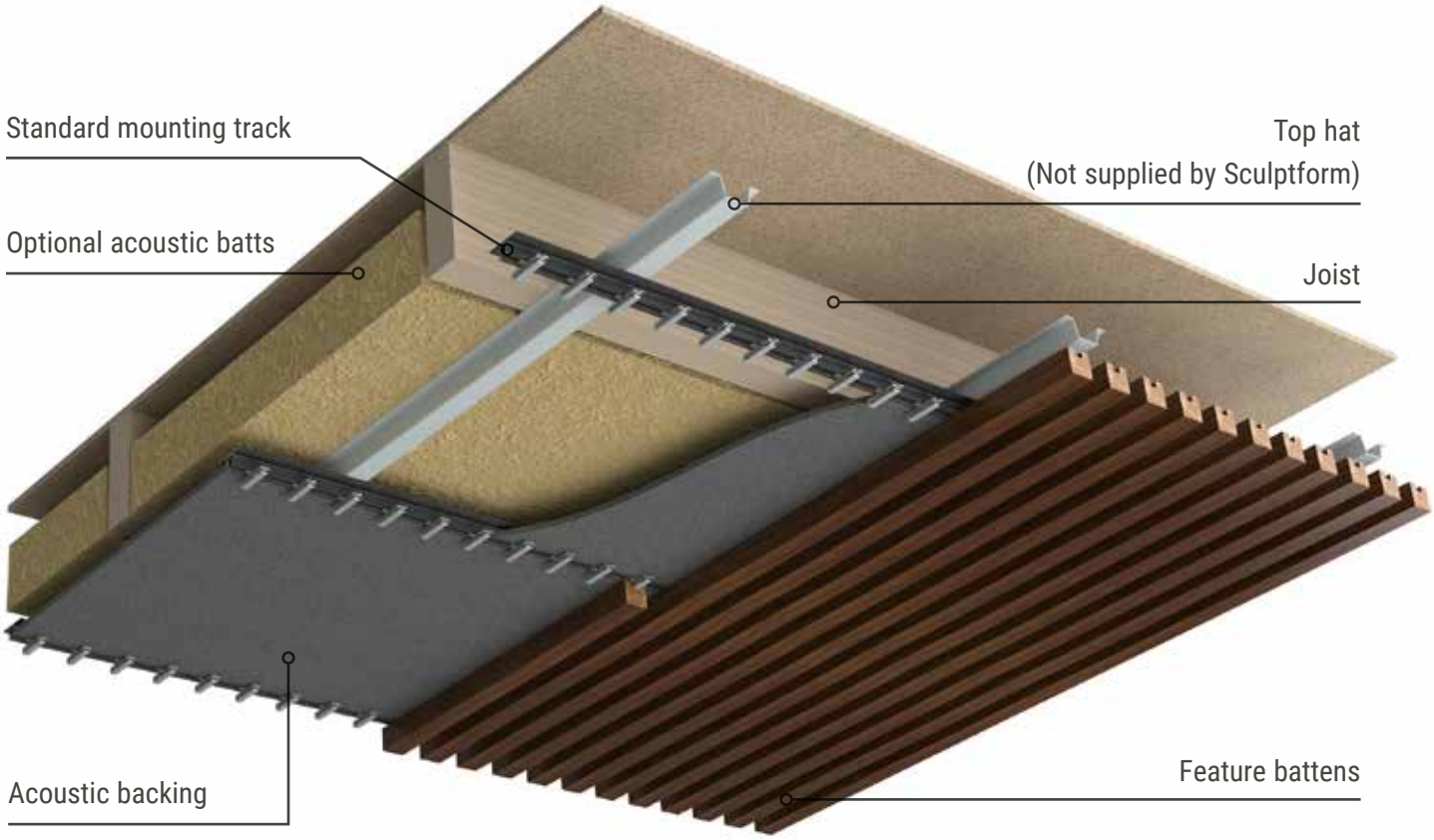
Don't forget to consider corners, access panels, wall penetrations etc when installing Click-on Battens. See the following pages for details.

Please don't hesitate to contact Sculptform if anything is unclear or you require further information.

1800 008 828 or email support@sculptform.com.au

APPLICATION

Direct fixed ceilings / soffits



Mounting track centres

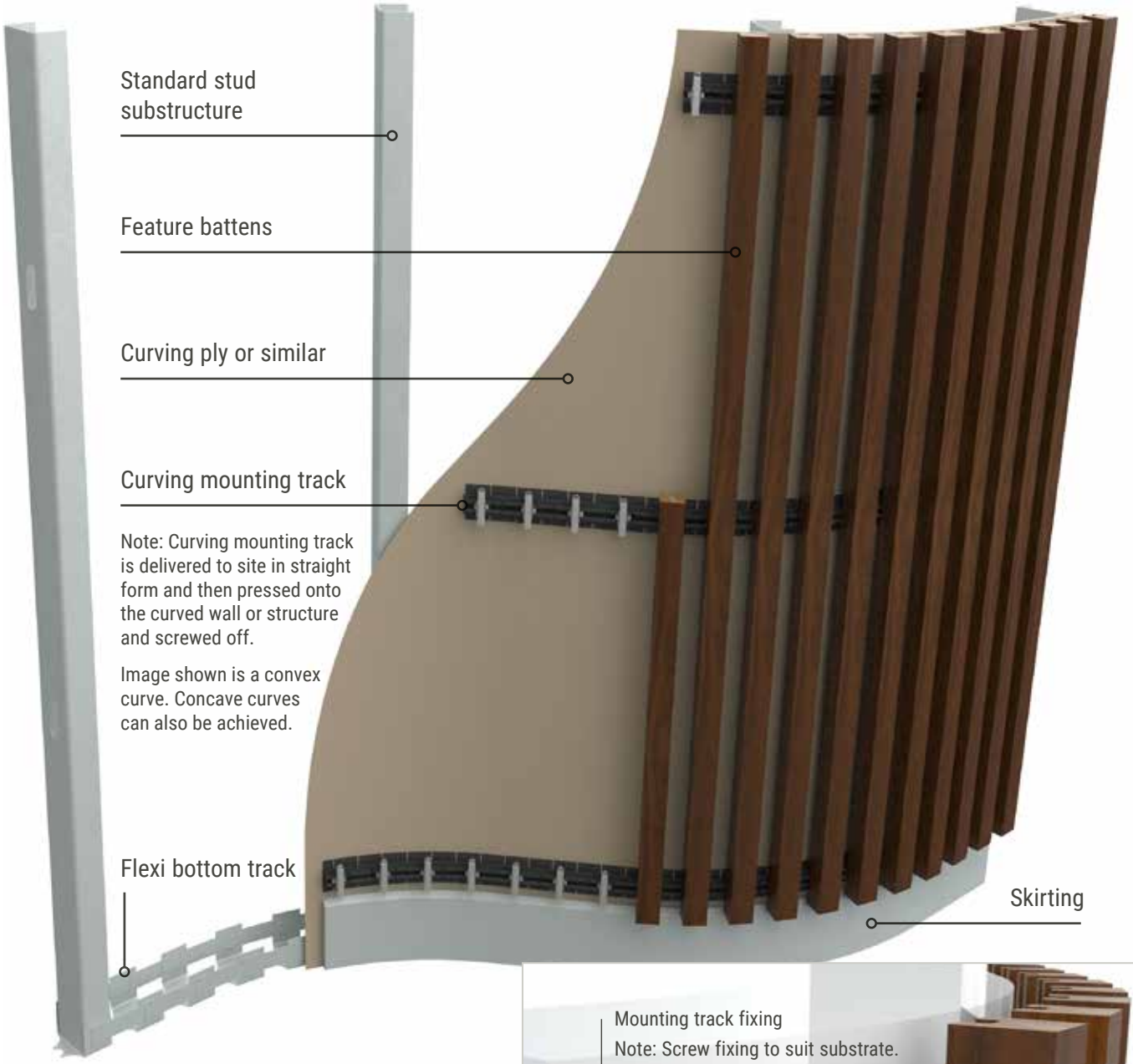
Batten Material	Application	
	Interior	Exterior
Timber	600mm	450mm
Aluminium	1200mm	1200mm

Standard mounting track specifications

- Aluminium extrusion
- Standard 3.8m lengths
- Powder coated matt black

APPLICATION

Curved walls/ceilings

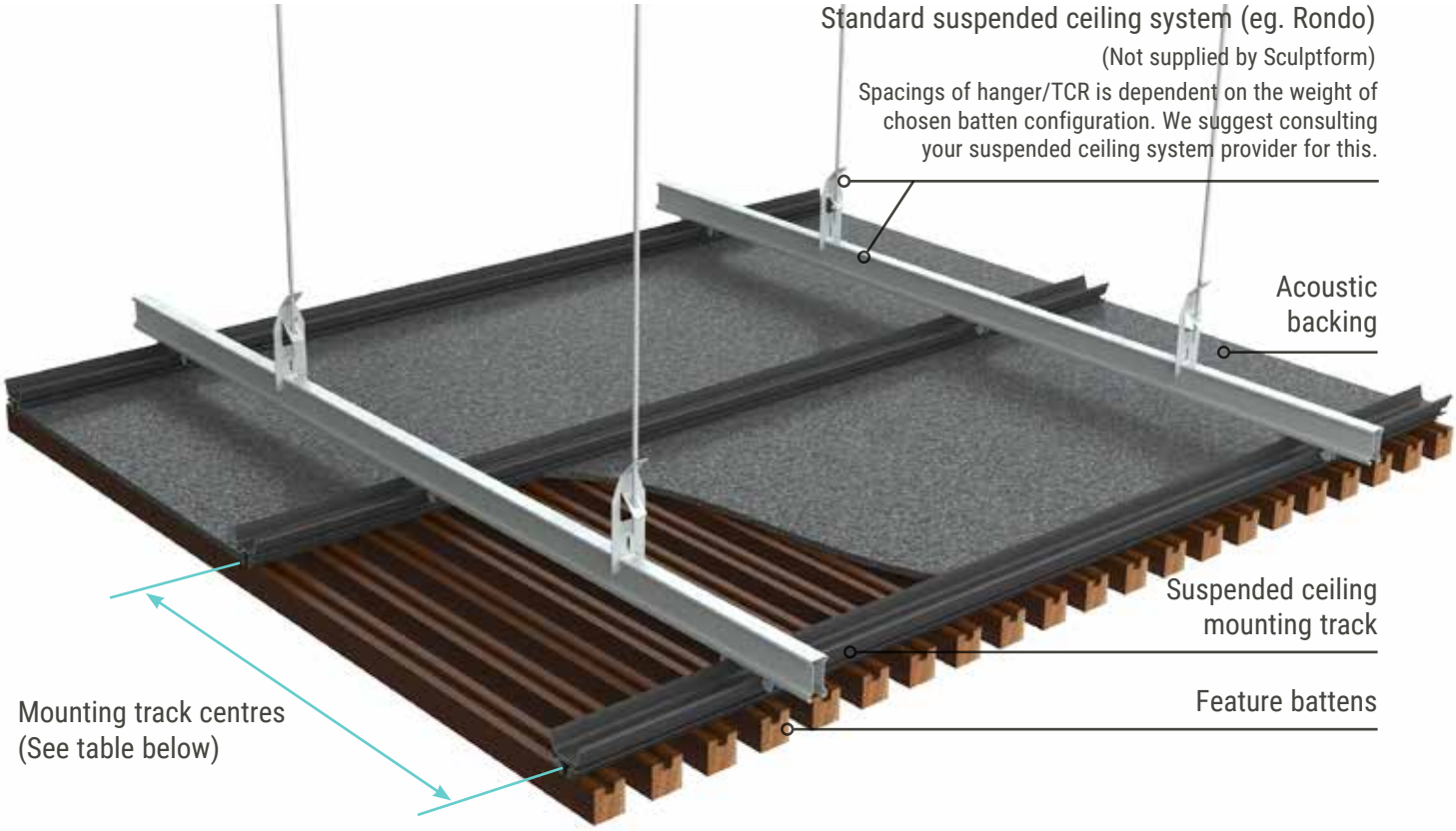


Curving mounting track specs

- Aluminium extrusion
- Standard 3.8m lengths
- Powder coated matt black
- Minimum curving radius: 200mm
  60mm wide battens: 400mm minimum

APPLICATION

Suspended ceiling

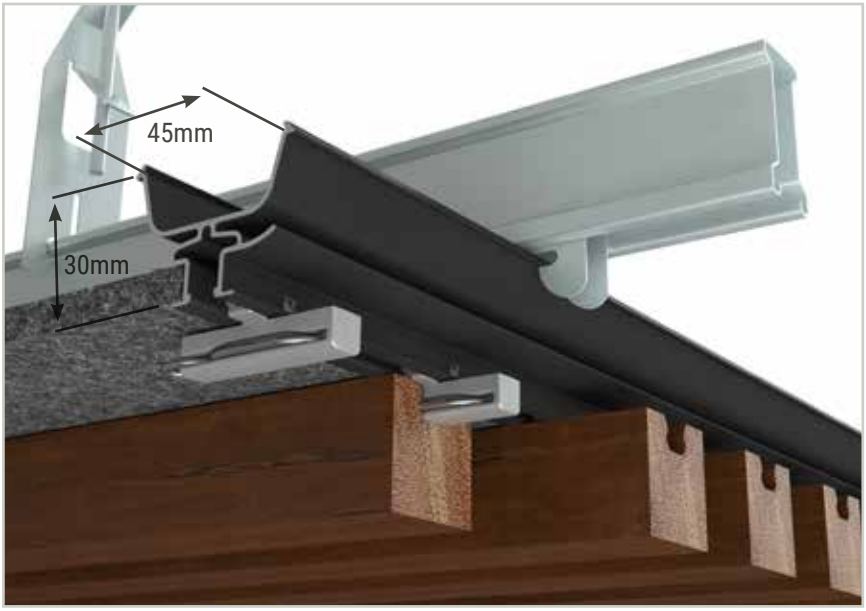


Mounting track centres

Batten Material	Application	
	Interior	Exterior
Timber	600mm	450mm
Aluminium	1200mm	1200mm

Suspended ceiling mounting track specs

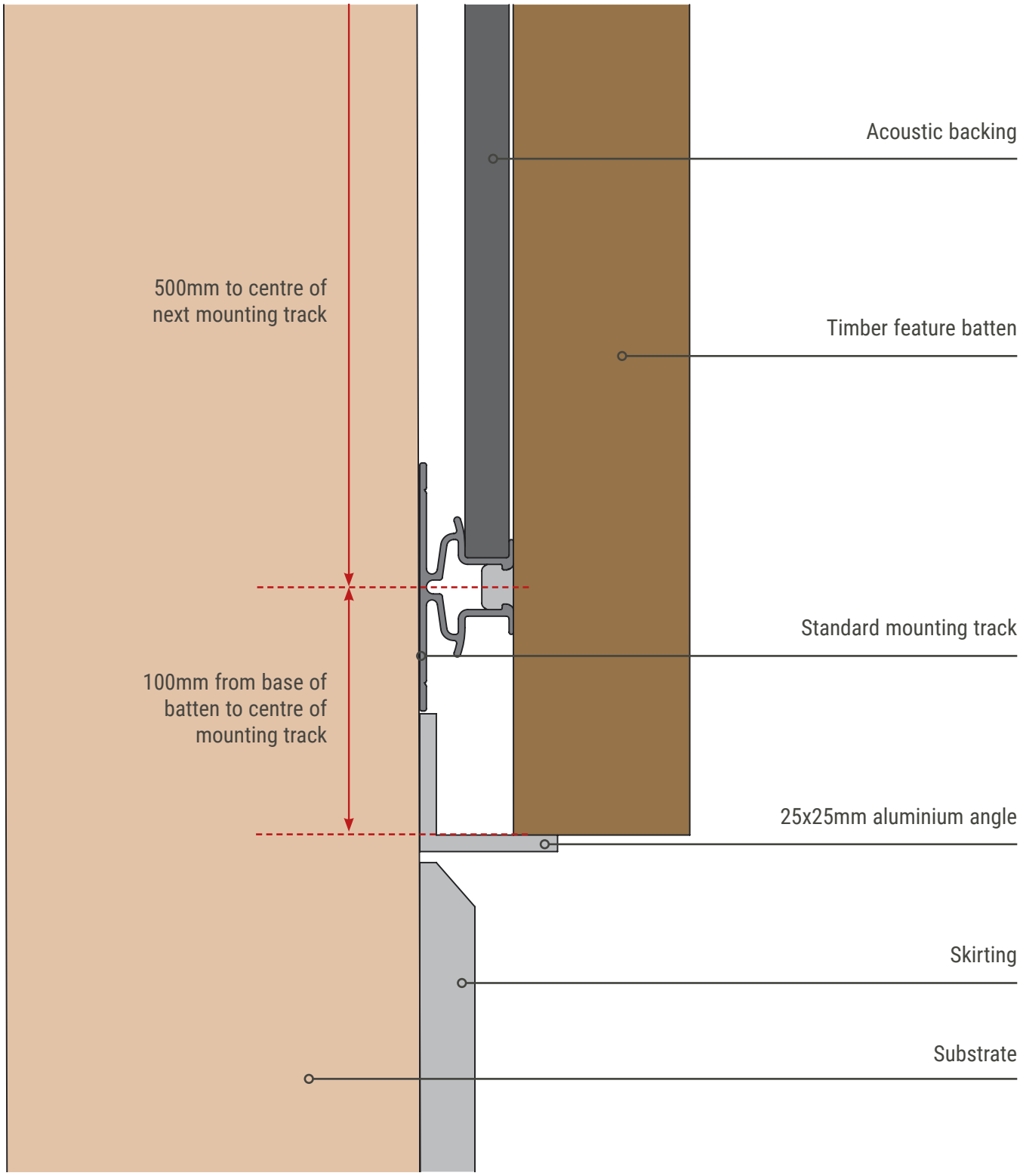
- Aluminium extrusion
- Standard 3.8m lengths
- Powder coated matt black



Click-on Batten details

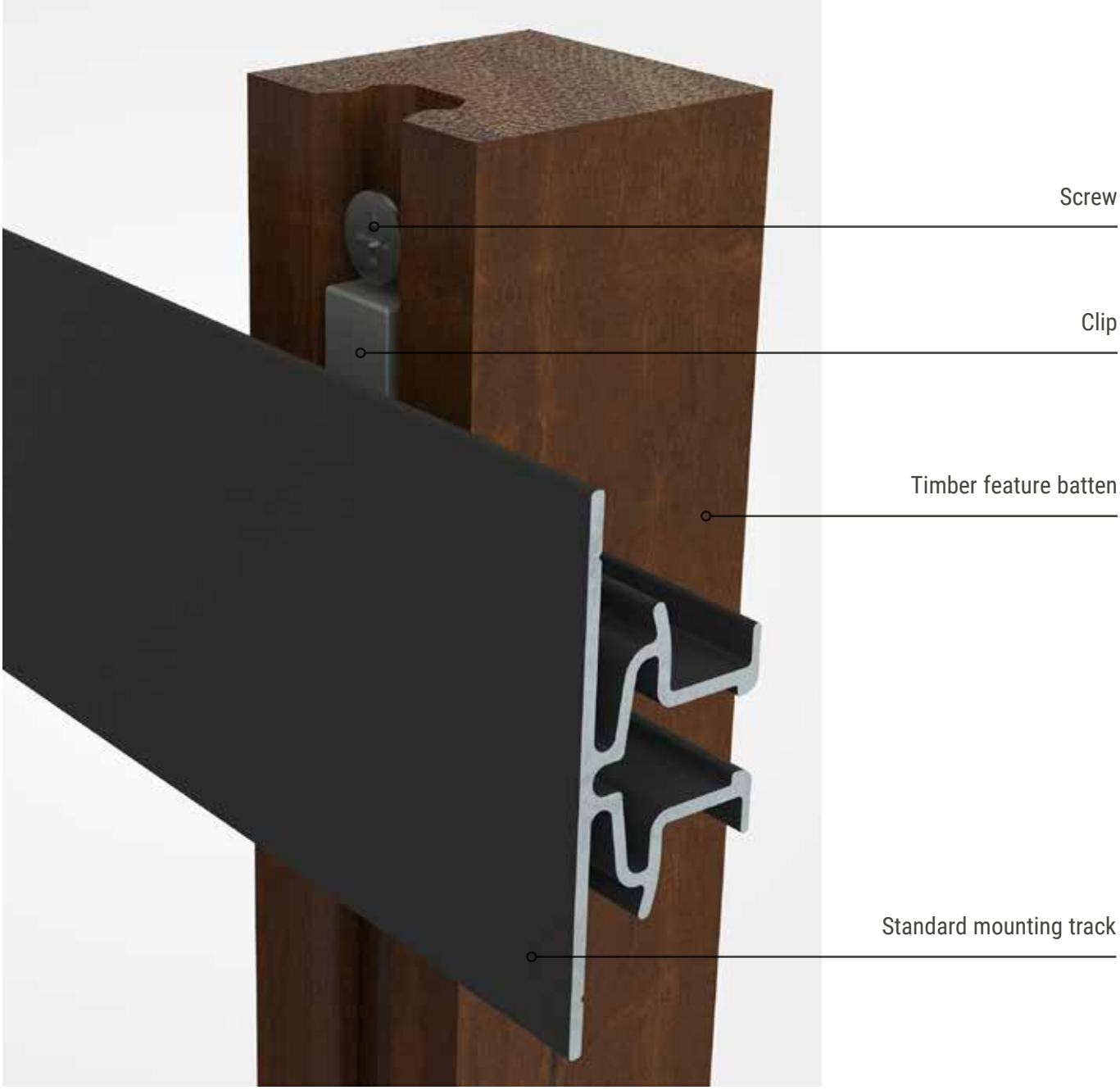
Anti-slip detail - aluminium base angle

The base angle is used as an anti-slip mechanism for vertical batten applications. Typically fixed at the bottom of the battens, the base angle also helps with alignment of battens.



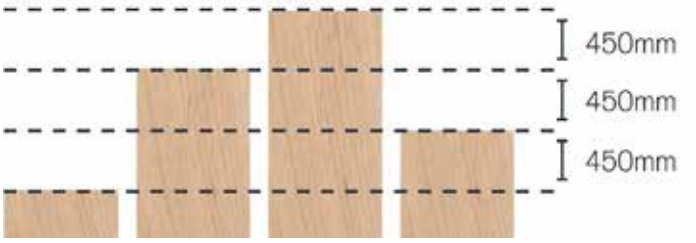
Alternative anti-slip detail

Where the aluminium base angle is not being used, it is recommended that a small screw be inserted into the back of the batten to serve as an anti-slip measure. On installation, hold the batten in place so the screw is resting on the bottom clip, then engage the batten from bottom to top, (refer to install procedure on page 8).



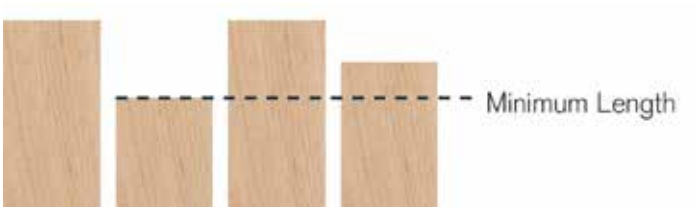
Batten length options

Timber battens can be supplied in a range of length options to suit on-site needs.



Cut to increment

Boards are docked to increments of 450mm or 600mm to suit mounting track centres, eliminating on-site time in the installation process.



Set lengths

Used where a quantity of the same lengths are required. Set lengths are between 0.9m and 3.6m and are always supplied slightly over length to allow for onsite trimming.

Exact length

Same as the 'Set Length' option, but with trimming to an accuracy of ±1mm.

Random lengths

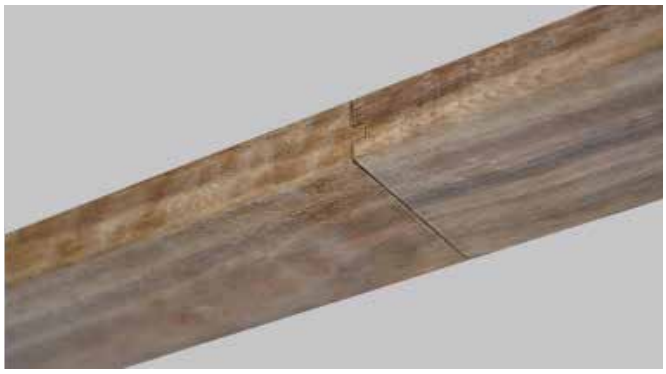
Battens supplied at random length with a minimum length of 900mm.

End matching

End matching is a small tongue and groove profile on the ends of the battens. When engaged, these profiles help to maintain batten alignment at the butt joins when joined on a clip. Our batten joiner can be used for aluminium battens if joining off a clip is required.

PLEASE NOTE:

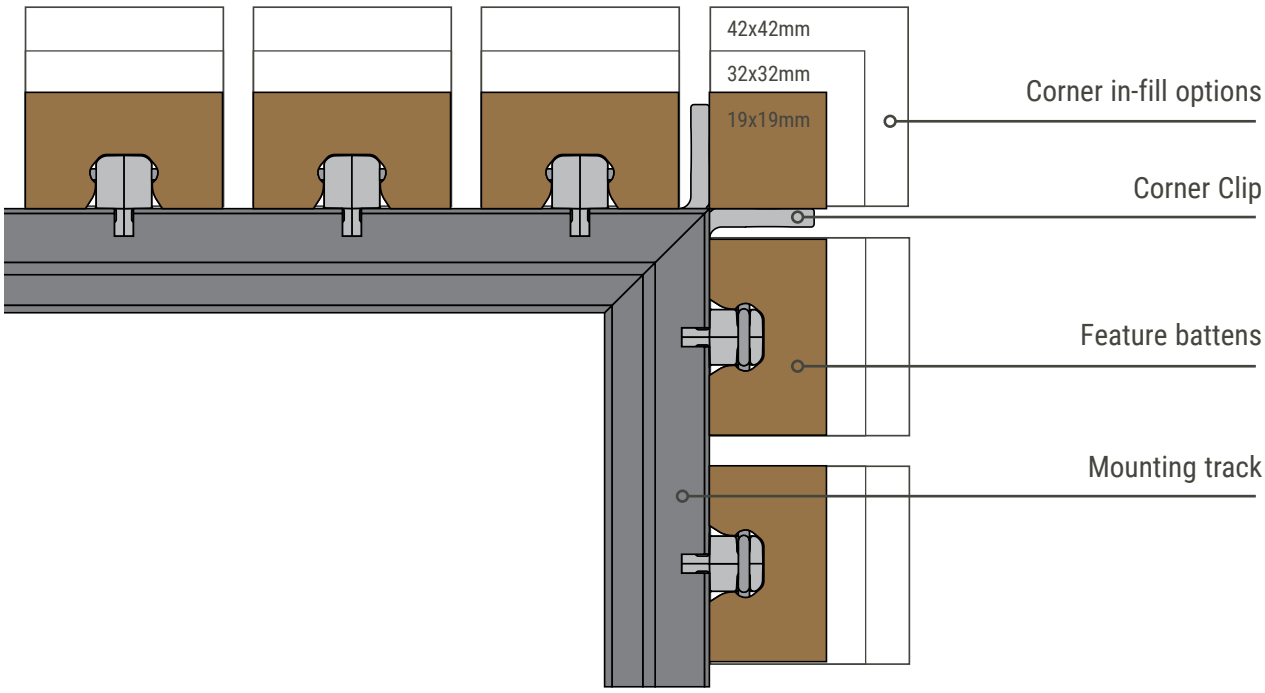
If your battens are cut to increment, cut the tongue off the first batten where butting to a wall, or the ends will be visible.



External corners and in-fills

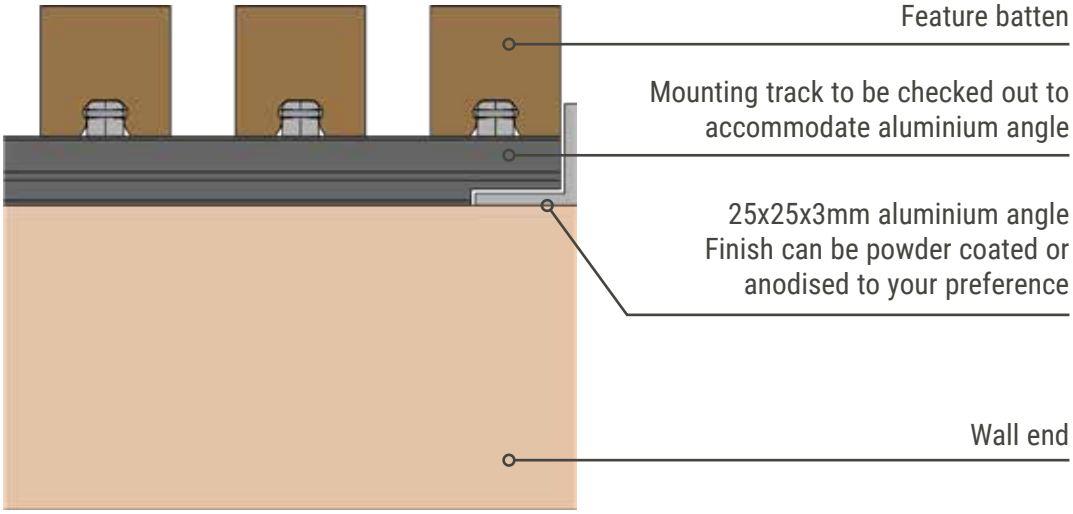
For wrap around external corners, Click-on battens offers a dedicated corner clip which simply clicks into a mitred mounting track corner. To install an external corner:

- Mitre the mounting track ends to 90 degrees.
- After installing your mitred track, install corner clip in place. The clip uses a simple push-fit connection into the track, and both sides must be engaged simultaneously. Use a square scrap of timber as a temporary corner infill then use a mallet to engage. This method prevents the two 90-degree lugs from bending.
- Fix your DAR corner infill in place with screws through the corner clip.



End junction options

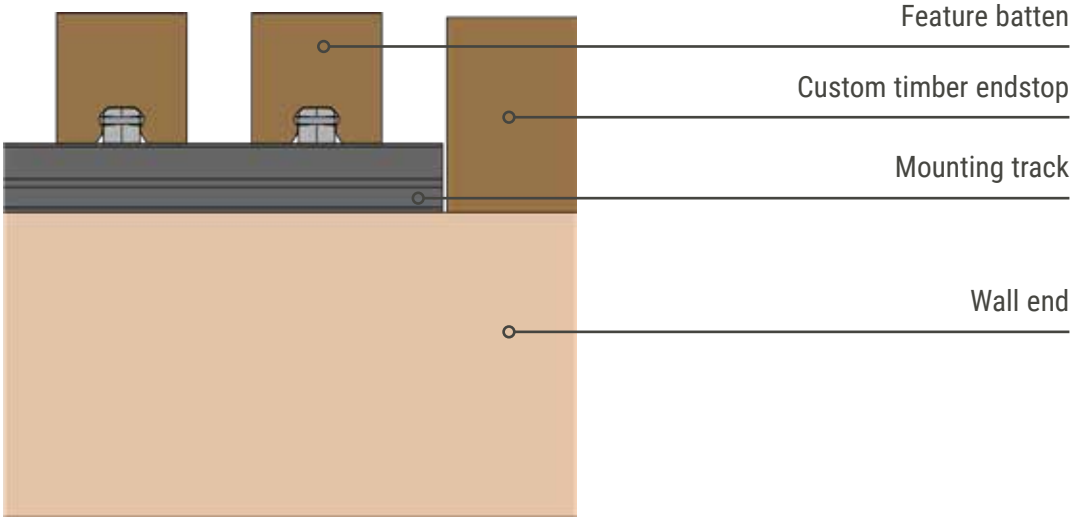
In most applications of Click-on Battens, installers are faced with a junction; Usually a corner, or coming up to a window or door. Below are two methods of installation.



Angle bracket

The aluminium L-profile method is the cheapest option.

1. Screw L-profile to substrate, flush with the adjoining surface.
2. Then work away from the junction, ensuring the battens meet the L-profile.



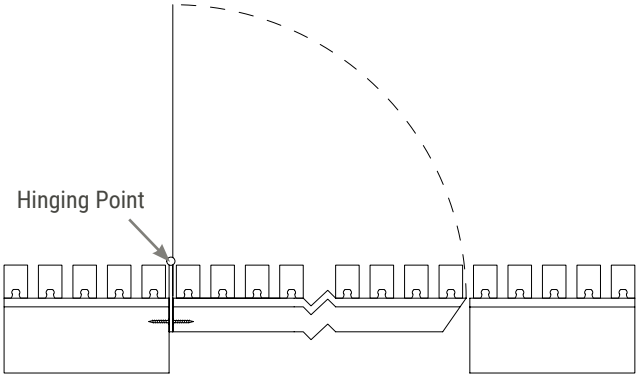
DAR endstop

The square-dressed timber method uses a project specific profile of square-dressed timber to cover the mounting track fixings.

1. Face-fix the square-dressed timber to the substrate, flush with the adjoining surface.
2. Work away from the junction, ensuring the battens maintain sequence.

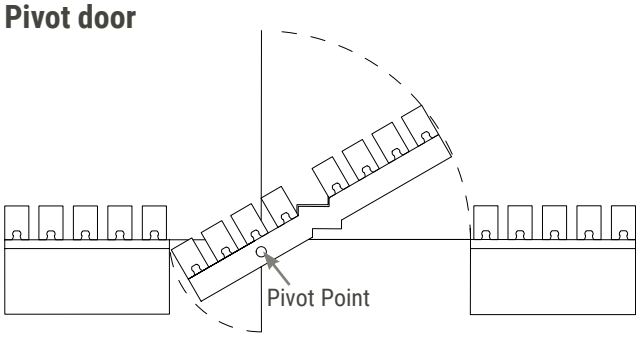
Door systems

Hinged door



1. Establish where the door is going to be located, taking into consideration any penetrations and the sequence of the battens.
2. Install door as per standard installation procedures, ensuring the pivot point of the hinge is located proud of the face of the battens.

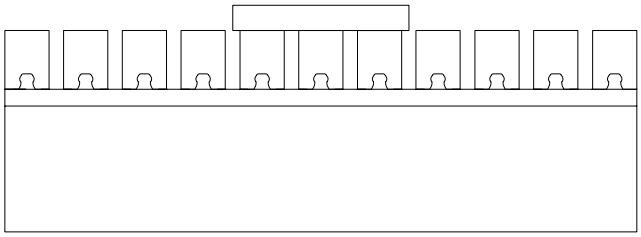
Pivot door



1. Establish where the door is going to be located, taking into consideration any penetrations and the sequence of the battens.
2. Install door as per standard installation procedures for pivot doors.
3. Ensure the pivot point is located correctly taking into consideration the clearance of the battens.

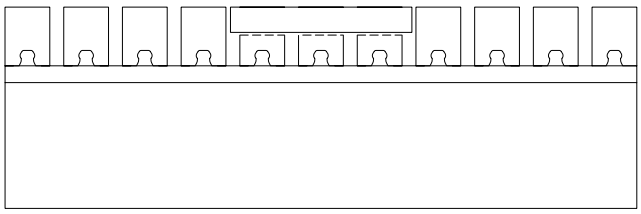
Wall penetrations

Flush to back



1. Penetration - locate an exact area where the penetration will be located.
2. Ensure this works in with the batten sequence, and with any other pre-run wires etc. within the substrate.
3. Install penetration as per industry standard.

Flush to face



1. Penetration - measure depth of penetration
2. Using a router, router out the chosen section of the wall.
3. Ensure the penetration works with the batten sequence.
4. Adapt any other battens that require modification.
5. Install penetration as per industry standard.

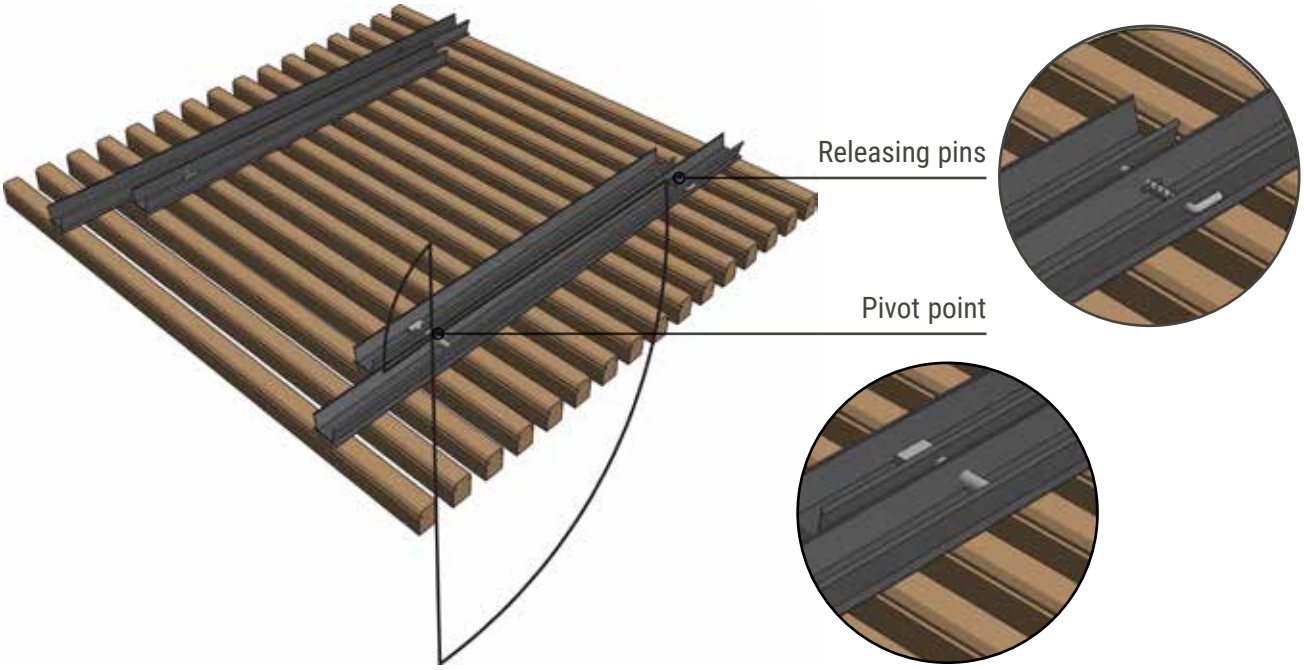
Access panels

Our system allows several options when dealing with access requirements. These methods are similar for both timber and aluminium battens. Battens are usually cut on site to ensure the required panel dimensions. Timber and aluminium battens require different cutting techniques and it is important to use the correct equipment and blades.

Pivot hatch

Pivot hatches are supplied as a kit and assembled on site. Please consider the following:

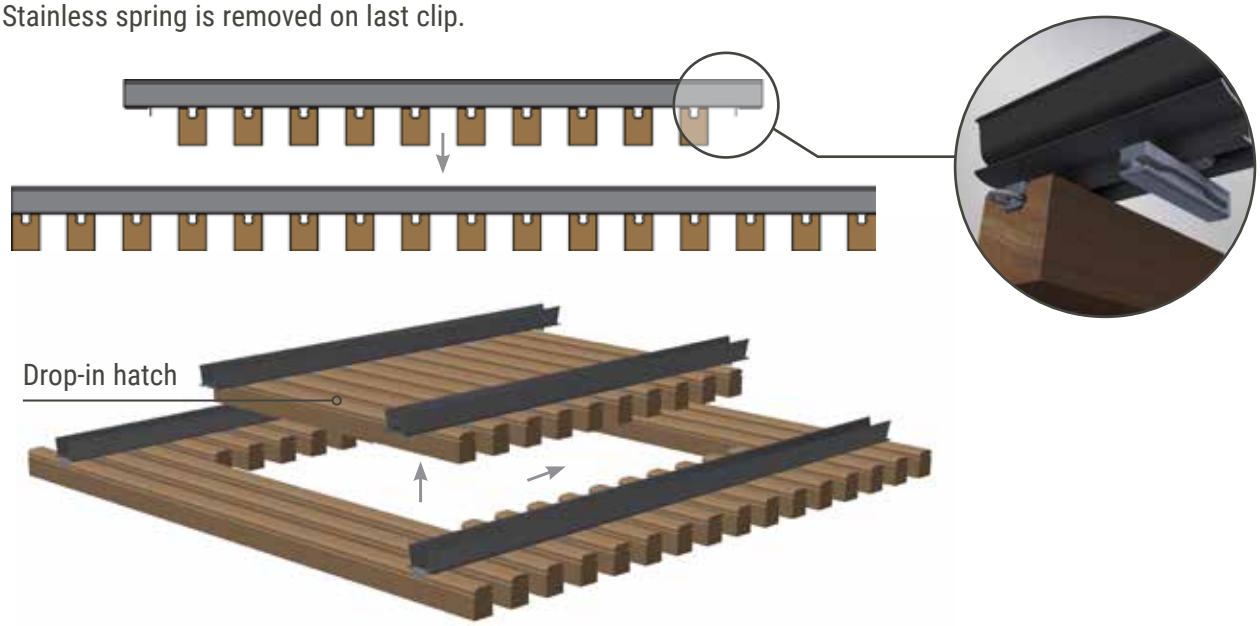
- Clearance is required for upward movement. Allow 200mm clearance above the panel
- Typically 1-3mm gap in the batten ends, with available length options of 600mm and 1200mm.
- Battens can be cut to any width on site up to 1200mm. Beyond 1200mm, consult Sculptform directly.

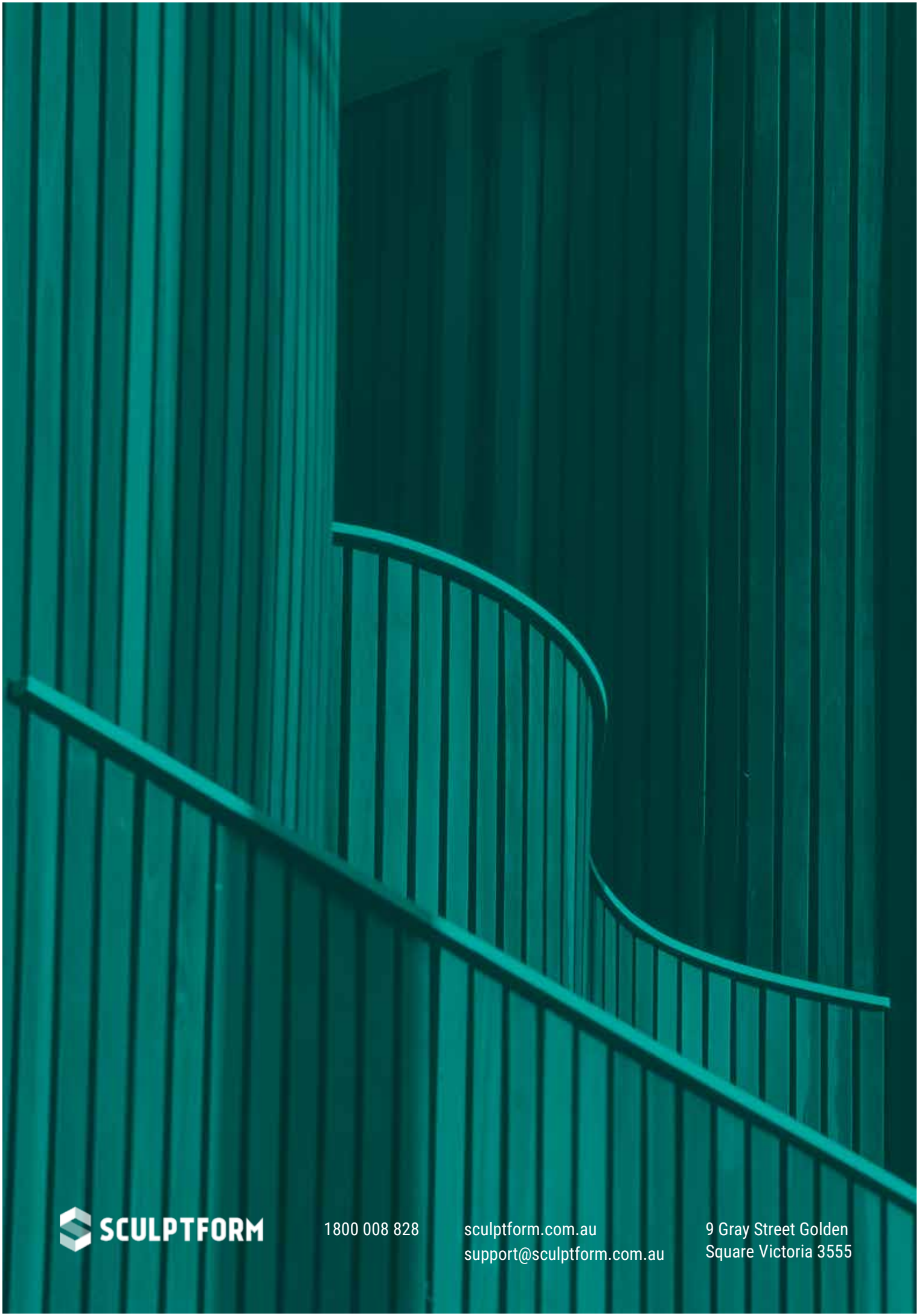


Drop-in hatch

The drop-in hatch is the simplest solution to providing access. Please consider the following:

- This hatch type is built on site at the locations required and can be built any size up to 1200x1200mm.
- Stainless spring is removed on last clip.





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