



kal'pul

Wall and Ceiling Batten System

Technical Data Sheet and Installation Guide



kal'pul

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Overview

kal'pul wall and ceiling battens is a concealed fixing system which combines aluminium mounting tracks, factory mounted fixing clips, polyester backing panels and moulded timber or extruded aluminium battens to create bespoke feature wall and ceiling lining finishes.

Benefits of the kal'pul wall and ceiling batten system;

- Specifically designed to achieve both aesthetic and acoustic requirements by incorporating acoustic rating materials with feature wall lining finishes.
- Unique system is designed to allow for easy installation with mounting clips factory preset onto the fixing track.
- Flexibility and tolerance for batten spacings considered with easily adjustable sliding clips ensuring consistency in the final product.
- Bespoke and project specific design capabilities.

Components List

Mounting Clips

Track Mounted Clips



Size 48x12x14mm

Clip Injection Moulded Zinc Alloy

Spring Stainless Steel 304 Grade

Fixing The track mounted fixing clip slides into the kal'pul mounting track. To secure the clip into the track, the grub screw on the face of the clip should be tightened using an Allen key.

Adjustment The specially designed kal'pul sliding track clips allow for easy onsite adjustment to ensure consistent spacings are maintained. To adjust, simply loosen the grub screw and slide the clip across the track to the required location.

Direct Fixed Clips



Size 48x12x14mm

Clip Injection Moulded
Zinc Alloy

Spring Stainless Steel 304 Grade

Fixing Avoiding the need for a visible mounting track, the kal'pul direct fixed clips allow battens to be mounted directly to any wall or ceiling substrate. To fix these clips, two 6-gauge fixings should be screwed through the provided holes on the clip face.

Benefits Removing the need for a mounting track eliminates the ledge that it creates behind the battens. This reduces the likelihood of dust build up, mould and spiderwebs.

Mounting Track

Size 45x25mm

Colour Dulux Electro Black Ace Powdercoating

Length 5.8Lm

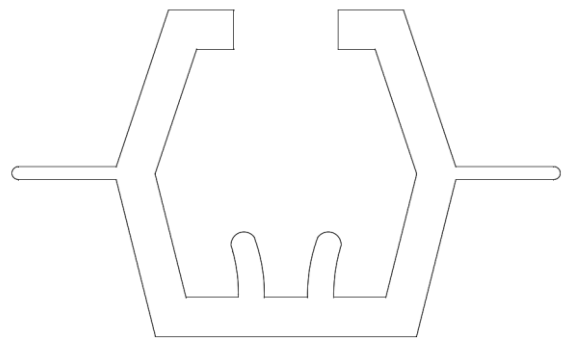
Track 3mm Aluminium Extrusion

Profile Specifically designed profile for easy installation of acoustic backing.

Fire Properties Non-flammable
Non-combustible

Suitability Suitable for both internal and exterior applications.

Fixing The mounting track is typically fixed using 6–8-gauge self-tapping screws through the centre opening. Fixing of the track should be project specific and dependant on structural substrate and engineering recommendations.



Battens

The kal'pul wall and ceiling batten system is designed to incorporate a variety of feature wall finishes including solid timber, timber veneer and aluminium battens in a variety of sizes and shapes.

Profiles Available;



Batten Size Range

20x20mm	30x20mm	40x40mm
20x30mm	30x30mm	40x60mm
20x40mm	30x40mm	40x75mm
20x50mm	30x60mm	50x50mm

Custom profiles and sizes are also available. Please speak to one of our sales consultants to discuss our capabilities.

Timber and Timber Veneer Battens

Available Finishes;

- Blackbutt	- Tasmanian Oak
- Victorian Ash	- Plantation Oak
- Spotted Gum	- White Oak
- American Cherry	- American Walnut
- Rock Maple	- Jarrah

Timber Veneer

Thickness	Adhesive	Finishes	Suitability
0.7mm	KATABOND KT2-888 Adhesive Low VOC Formaldehyde not detected (EN 204)	Flat Matt Gloss	Recommended for interior settings only.

Solid Timber

Material	Moisture Content	Finishes	Suitability
PEFC and FSC certified	9% to 14% (subject to timber type).	Flat Matt Gloss	Both interior and exterior settings (Treatment subject to application).

Aluminium Battens

Aluminium Battens

Thickness	Weight	Finishes	Suitability
3mm extruded aluminium	0.55kg per Lm – 1.1kg per Lm	Powdercoat (Flat) Powdercoat (Matt) Powdercoat (Gloss) Anodised	Both interior and exterior settings (subject to suitability of finish product properties).

Powdercoating Finishes;

Supplier	Range	Colour	Finish
Dulux	Charisma	Black Ace	Flat
Dulux	Duratec	Reef	Gloss
Dulux	Duratec	Surfmist	Flat
Dulux	Duratec	Coast	Satin
Dulux	Duratec	Desert	Satin
Dulux	Duralloy	Basalt	Matt
Dulux	Duralloy	Monument	Satin
Dulux	Electro	Fresh Gold	Flat
Dulux	Electro	Medium Bronze	Flat
Interpon	D1000	Timberland	Matt
Interpon	D2525	Vintage Silver	Flat
Interpon	D2525	Charcoal	Satin
Interpon	D2525	Dark Bronze	Flat
Interpon	D3020	Red Bush Apple	Matt

Other finishes are to be assessed on a project specific basis.

Transportation and Handling

The kal'pul aluminium battens are a finished product. All finished surfaces are easily scratched and dented when not suitable cared for.

Special care and consideration should be given when transporting and handling these battens to ensure no damage or defects are created.

Acoustic Backing



Material	100% Polyester (Minimum 50% post-consumer recycled material)
Thickness	9mm
Weight	0.48kg per m ²
Sizes	2.4x1.2m and 2.7x1.2m panels
NRC	0.5 (Direct Fixed) 0.7 (with 50mm air gap)
Fire Properties	ASTM E84-21a "Standard Test Method for Surface Burning Characteristics of Building Materials" Class A achieved

Accessories

Angle Trims



kal'pul angle trims are designed to conceal the edges of the mounting track providing a tidy perimeter border surrounding the battens. Typically, a 25x25mm angle will be used to ensure the thickness of the track is concealed.

kal'pul trims typically come in a natural anodised, white or black powercoated finish. Kal'pul also offers a variety of finishes including powdercoating and anodised finishes specific to project needs.

End Caps



End caps are available for all aluminium batten profiles.

All end caps kal'pul provide match the finish of the batten. This includes all powercoat finishes and veneers where applicable.

Installation Instructions

Wall Battens

Preliminary and Set Out

Prior to the commencement of installation of the kal'pul wall batten system, architectural plans and elevations should be reviewed to ensure specific design and functional requirements are being achieved. Consideration should be given to desired batten spacings, sequencing and layout as noted in project specific documentation.

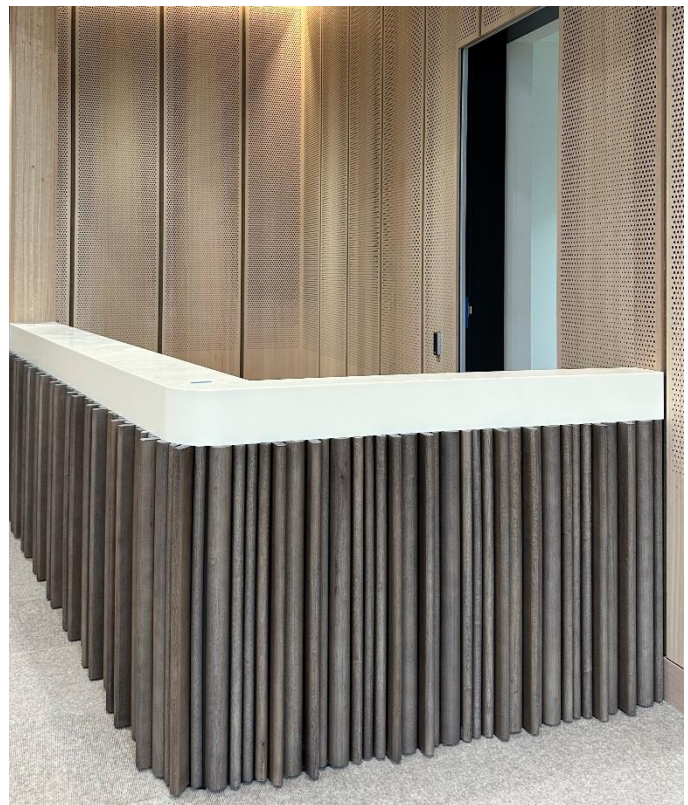
A suitable structural substrate will be required to support the weight of the batten system. Fixing to typical stud walls will require studs at a maximum of 600mm centres. Prior to fixing to alternative substrate, project engineers should first be consulted.

Mounting Track Set Up

Before installation of the mounting track can commence, installers should first ensure that the substrate is straight and plumb. Any variance in the substrate, packing should be undertaken where required.

To suitably fix the mounting track, 6–8-gauge screws should be used through the centre of the track profile. A laser should be used at all times to ensure the track is installed level and consistent.

kal'pul mounting track is recommended to be installed at a maximum of 600mm centres for interior applications. For exterior settings, consideration should be given for additional loads including wind. This is to be assessed on a project specific basis and engineering requirements should be followed.



When using the kal'pul direct fixed clips, no mounting track is required. Direct fixed clips will be individually fixed to the structural substrate as required to achieve the specified batten spacings. Typically, direct fixed clips should be installed at maximum 600mm centres for both timber and aluminium battens.

Batten Installation

To install the battens onto the now installed fixing clips, simply tap the battens at each clip using a rubber mallet. The battens are considered secure once the clip has entered the full depth of the channel rebate.

For batten lengths requiring a join, we recommend staggering the joins to achieve a more aesthetic finish.

Batten Adjustment

For battens in close proximity to corners or openings, slight adjustments may be required to maintain a consistent finish. To achieve this, adjustment of preset track mounted clips may be required. To do this, simply, loosen the grub screw on the face of the clip and slide it along the mounting track to the desired locations. Once adjusted, retighten the grub screw and lightly tap the battens onto the clip.

Ceiling Battens

Preliminary and Set Out

Prior to the commencement of installation of the kal'pul ceiling batten system, architectural reflected ceiling plans should be reviewed to ensure specific design and functional requirements are being achieved. Consideration should be given to desired batten spacings, sequencing and layout as noted in project specific documentation.

A site review and assessment should be undertaken to ensure details shown on project documentation can be reflected onsite.

A suitable structural substrate will be required to support the weight of the batten system. Fixing to typical stud walls will require studs at a maximum of 600mm centres. Prior to fixing to alternative substrate, project engineers should first be consulted.

Mounting Track Set Up

The ceiling batten system will be fitted to a suspended ceiling system. The ceiling system should include top cross rails and furring channel for fixing points for the batten system mounting track. Cross bracing may also be included and is subject to engineering requirements.

Before installation of the mounting track can commence, installers should first ensure that the substrate is straight and plumb. Any variance in the height of the suspended ceiling system prior to the commencement of track and batten installation.

To suitably fix the mounting track to the suspended ceiling system, 6–8-gauge screws should be used through the centre of the mounting track profile, screwing up into the furring channel provided in the ceiling system.

When fixing the mounting track, a laser should be used at all times to ensure the track is installed level and consistent.

kal'pul mounting track is recommended to be installed at a maximum of 600mm centres for interior applications. For exterior settings, consideration should be given for additional loads including wind. This is to be assessed on a project specific basis and engineering requirements should be followed.

Installing Acoustic Backing

Once the mounting track is fixed to the suspended ceiling system, the acoustic backing can be placed into position. To install, simply slide the 9mm thick panel into the groove of one mounting track length, then flex the panel until it sits within the groove of the second mounting track. To cut the acoustic backing to size, using a sharp knife blade or track saw is recommended for a neat edge finish.

Batten Installation

To install the battens onto the now installed mounting track, simply tap the battens at each prefit clip using a rubber mallet. The battens are considered secure once the clip has entered the full depth of the channel rebate on the back of the batten. This is the same detail for both timber and aluminium battens. For batten lengths requiring a join, we recommend staggering the joins to achieve a more aesthetic finish. For battens nearing a corner or opening, adjustment to the clip set out may be required. To do this, simply loose the grub screw on the clip face and slide it down the track to the desired location. Once adjusted, the batten can be tapped into position.

Penetrations and Openings

Doors

Where doors are located on elevations in conjunction with the kal'pul batten system, an opening must be provided for the door to function correctly. To achieve this, installers must establish where the door will be located on an elevation taking into consideration door swing and frame allowance.

Once the location is identified, the battens can be set out to surround the opening. Adjustments to batten spacings may be required.

Batten set out on the door face should match the spacing and sequence of surrounding battens to ensure a consistent finish is maintained.

Services

Coordination of the batten system and services fit off is required prior to fitting batten to the fixing clips. Architectural plans and elevations should be reviewed to ensure specific design and functional requirements are being achieved. Where required, penetrations in the batten system should be provided. This should be assessed on a project specific basis.

Access Panels

The kal'pul batten system has the capability of creating functioning access panels for access into cavities behind the batten system including in-ceiling service spaces.

Similar to a door, an opening must be provided for the access panel to function correctly. Installers must establish the access panel location and set out surrounding battens accordingly. Battens to the access panel face should match the surrounding battens spacings and sequence to ensure a consistent appearance.

The access panel will be hinged off the ceiling structure using a pivot hinge and locking mechanism to provide easy functionality.