

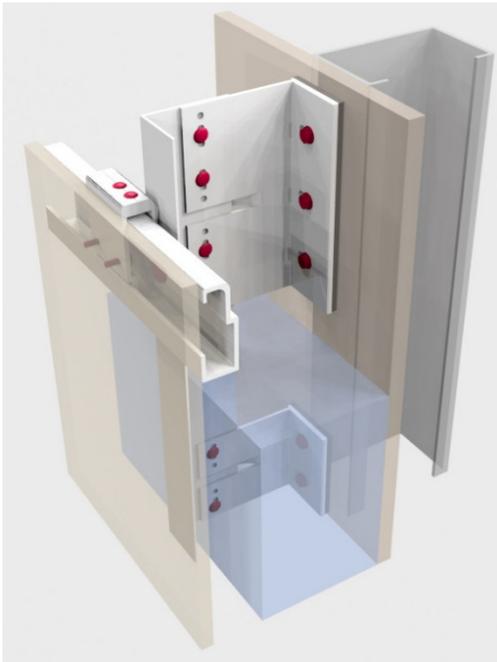
# kladfix

www.kladfix.com

## Method Statement - Installation Guide KX03 ( Hook on System / mechanical fix )

### General Description

Kladfix profiles and Components are designed to provide a vertical support



Framework for a number of different types flat boards/ panels, to any suitable building facade. These profiles are anchored to the building using a purpose-designed bracket that allows final alignment and adjustment

For further information – Please see [www.kladfix.com](http://www.kladfix.com)

## Kladfix Brackets

Kladfix Brackets are supplied in different sizes ranging from 60mm - 210mm [see table for cavity depths that can be formed] with the KX03 system

The Brackets are available with hole-sizes 11mm or 6.5mm depending on the diameter of the primary anchor (11 mm – Block / Masonry – 6.5 mm – Steel timber)

KX03 Horizontal hanging Profile carrier profile and adjustable / fixed cleats

### Table of Bracket Sizes

Refer to [www.kladfix.com](http://www.kladfix.com)

### Primary Fixings

Kladfix Brackets are secured directly to a new or existing substrate of concrete, brickwork or blockwork or steel frames. Suitable primary anchors are employed to position the Brackets to a pre-determined grid to suit the Panel layout – Please liaise directly with preferred Primary fixing supplier re pull-out.

If lightweight steel framing systems like Purlins or a Track / Stud framework is employed for this system, then it is important that this framework is erected to the same grid as the finished panel layout and that an engineered fixing device is used to fix the Brackets. In addition, if there is no sheathing board, the isolation of two different metals must be considered. The use of Kladfix insulation pad will achieve this – see [www.kladfix.com](http://www.kladfix.com)

**Important:** the size and type of primary fixing for the Connectors will **always** be determined by the dynamic and dead loads they have to resist - Please liaise with Primary fixing supplier.

### Vertical Rails

Once a line of vertical Brackets is installed, a 50 x 50 Kladfix 'L' Profile / 'T' Profile can be attached using the helping hand at each bracket position. [As the Panels will follow any irregularity or miss-alignment of profiles, it is important that time is taken to align / level the framework to a high standard].

- Each 'L' Profile should be cut to the required length.
- Place the Profiles in each of the Brackets using the helping hand.
- Move the profile into its vertical position - allowing 10mm 'expansion' between profiles.
- The Profile can then be eased outwards to form the specified cavity depth.
- Check for line and level

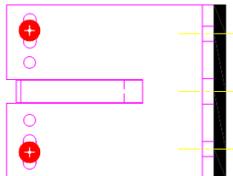
- Secure the Profile using screws or rivets in the 'holes' or 'slots' \*\* - The correct combination or 'mix' of Single brackets / Double brackets may be determined – Our response to a completed 'Project Checklist' (see [www.kladfix.com](http://www.kladfix.com)) will differentiate between Single / Double brackets / Fixed point / Sliding point fixing and Horizontal / Vertical bracket positioning – Speak to kladfix Technical

### Important

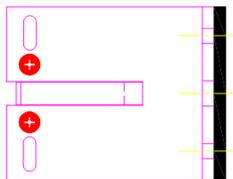
Generally, Profiles are cut to lengths that reflect the height of the panel(s) that are going to be hung on them. Typically storey-height profiles are cut so that the Panel(s) are located on one set of vertical profiles and does not 'bridge' an expansion gap between two profiles.

\*\*As each Profile is secured to the Brackets ONE, near the centre of the profile, MUST be connected with fixings going through the HOLES. [Fixed Point] ALL other brackets should then be fixed in the SLOTS [Sliding point]

For precise fixed point and sliding points – Speak to Kladfix for a project specific static calculation to be prepared



SLIDING POINT



FIXED POINT

Once all Brackets and Profiles are installed to an area of cladding, final checks should be carried out: -

- On the primary anchor torque settings

- To the line and level of the profiles in relation to each other
- To the number of screws and their position in each Bracket

### **KX03 horizontal rail**

The position of the rails should align with the 'hook' clip fitted to the rear face of the panel

Horizontal datum lines should be projected across the elevation and the position of the profile should be marked on to the vertical rail

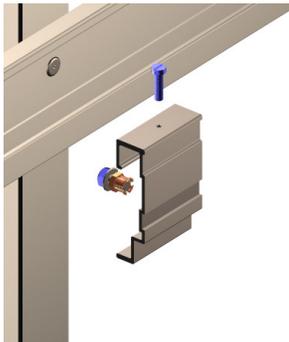
Then the Profile can be screwed / riveted to their required position

Rails can run past the last vertical support by 300mm max if a rail needs jointing off cuts of the rail (200mm length) can be used back to back. Please allow room for expansion.

### **KX03 clips**

The clips come in adjustable and fixed versions and also have second plain hole. Numbers of cleats are depending on panel material and fixing type to be used.

"Keil" anchors are to be used with concrete / stone panels (please ask for details) or PTS screws to be used with HPL boards.



### **Panels**

The number of "hook" clips and their vertical position will be specified to suit the size and material of the Panels and the Dynamic Wind Pressures [Positive and Negative]. The top row of clips should be the adjustable type fitted with height adjustment screw and additional locking hole - this gives the ability to adjust the level and height of each panel individually the subsequent rows of clips are non adjustable.

## Insulation

Where insulation is specified, it should be cut and tightly butted around the brackets and secured with the appropriate fixings. Sufficient insulation fixings should be provided to ensure that the insulation cannot block the ventilated cavity.

## Panel Installation [General]

- Check Profile positions in relation to actual Panel clips.
- Raise the Panel and support in vertical position.
- Lower on to rails and check that all 'hooks' have engaged.
- Adjust level and height of panel before fitting next panel above. If the screw adjustment raises the panel too high remove panel and adjust the main rail to suit. ( **max adjustment 12mm** )
- Repeated on next panels
- Panel joints should follow the manufactures recommendations re joint gaps horizontal and vertical
- On final fixing top row of panels should have self drilling self tapping screws fixed through plain hole in top of the clip to retain panel from being lifted off or sliding
- A 'lift' gap (see below) of no less than 20 mm needs to be left above the top panel for ease of removal / disengagement

## Panel Removal [General]

- Working from top panel down – Undo self drilling self tapping screw / s
- Lift panel – A 'lift' of 15 mm will allow the KX03 clip to clear the KX03 rail – Therefore a 'lift of c. 20 mm should be allowed for when disengaging the panel
- Repeated on next panels

We reserve the right to technical modifications no responsibility is taken for detail changes or printing mistakes of the details provided

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