

# CHANNEL INSTALLATION GUIDE

## Removing Channel Cover Plates.

Cat 6 channel is normally supplied with cover plates fitted. To mount the channel, the cover plate must be removed.

A wide instrument (25mm or wider), such as a paint scraper should be inserted into the groove, either Top or Bottom, between the channel body and the Cover Plate. The cover plate is then levered out by gently pushing the handle OUTWARDS. Do not attempt to remove the cover plates using knife blades or screw drivers as damage to the channel and powdercoating will occur.

## Mounting the Channel.

Cat 6 channel is intended to be fastened to a surface using screws on either side of the channel centerline, screw positions can be located by the 2 quarter height grooves.

The screw centers are generally accepted to be at stud pitches, normally about 600mm. The maximum recommended screw spacing should not exceed 900mm.

The channel loading, including the potential for objects to be placed upon the top of the channel, must be taken into consideration when choosing the fixing screw sizes.

The design of the channel is such that, when a mounting screw is tightened, the flanges close fractionally thereby increasing the 'grip' on the channel cover plate.

Should there be any difficulty in retaining the cover Plate, possibly due to mounting upon walls that are not flat, then additional screws may be added to the upper and lower compartments so increasing the 'grip' on the cover Plates. For ease of assembly, final tightening of the mounting screws could be left until all internal fittings have been installed providing that access to the mounting screws is not obstructed.

Cat 6 Channel is intended to be mounted against a flat surface. It should not be installed across openings such as doors and windows.

For single handed installation work from an internal corner first, fitting the corner to a channel length with joiners; Secure this end at the intended height, then level the channel using a spirit level and secure the opposite end. After inserting the required screws into this length at the stud pitches fit joiners into the open end of this secured channel. The next length of channel can now be held in place at the correct height on these joiners while it is made level and secured with fasteners. When finishing up to an internal corner, mark up a channel length allowing for the internal corner and cut to this length. After fitting the cut length to the joiners of the fixed channel and securing level, slide another pair of joiners into this length to align to the internal corner. These joiners should be slide right into the channel while the internal corner is placed into

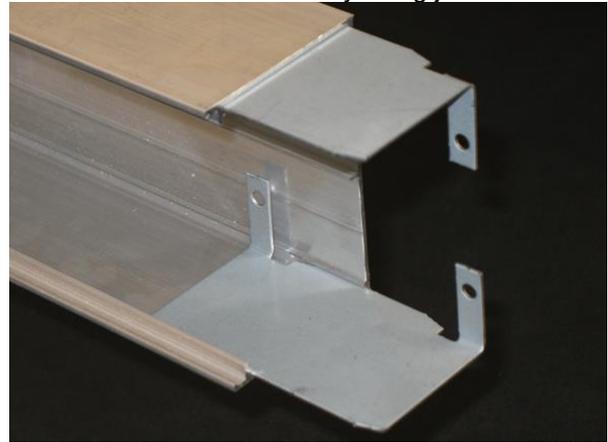
position and then slid to engage into the grooves of the internal corner and secured with fasteners.

## Cutting Channel.

When cutting the channel using a drop saw or similar implement it is advisable to fit a piece of scrap cover where the cut is to be made to prevent deformation of the channel sides.

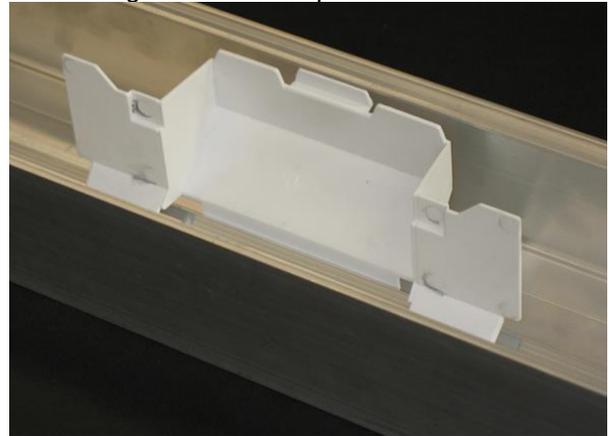
## Joining Channel lengths.

Joiners are available as optional extras (#14190116). Two Joiner angles should be screwed top and bottom, one to each mounting groove in the duct back using supplied screws. The second channel length should be offered up to the fitted length and slid into place between the joiner legs and fastened using supplied screws. Internal and external corners are available and can be fitted in the same way using joiners.



## Positioning the sockets.

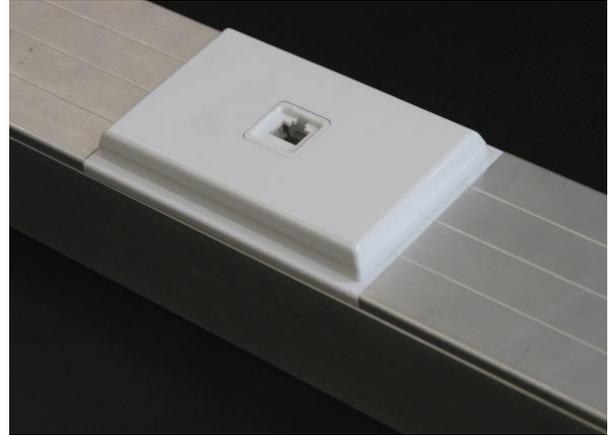
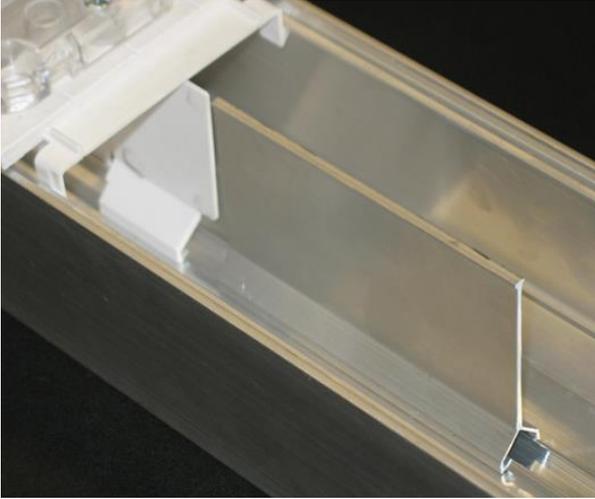
To position the sockets and Backing Boxes, first remove the centerline divider, take a shield and carrier and place the shield into position on the centerline of the channel. The Carrier is then placed over the top of the center of the shield. The shield can be orientated either up or down depending on the socket being wired into position. The Backing Boxes can be fastened to the carrier after wiring has been completed.



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### Fitting Dividers.

With the shields placed in the positions of the intended sockets, the dividers can be marked to length and cut. The dividers can then be clipped into the centerline of the channel.



### Fitting End Stops.

With the channel cut to length and fitted, where needed, end stops are available as optional extras (#14171004). The end stops are pushed into position, locating into the top and bottom jointing groove of the channel. Where the end stop can come into contact with any loose mains wiring then the end cap should be earthed.



### Earthing

All work i.e. earth bonding, etc., is required to comply with AS/NZ 3000 standards. Paint cutting Star washers are suggested for all earth wire fixings and for both Channel End Stops. Please ensure that the Star Washers are fitted on final assembly

### Fitting Cover Plates.

Last of all fit cover plates, external corners are supplied with short cover plate angles so fit these first and mark out up to the corners and cut the cover plates to length.