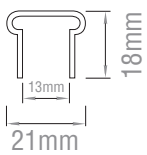


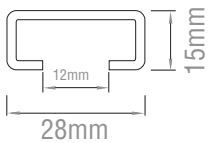
# ancon channel and bolt fixings

## Ancon

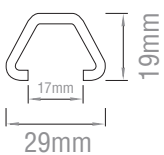
21/18 Omega



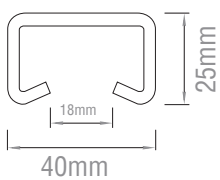
28/15



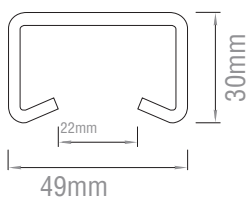
30/20



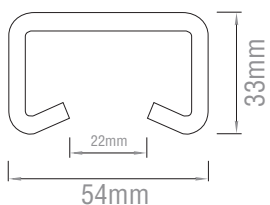
40/25



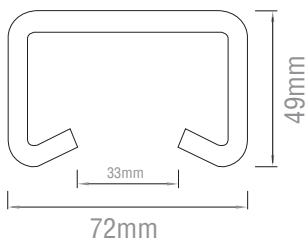
49/30



54/33



72/49



### CAST-IN CHANNELS

Cast-in Channels range from simple self-anchoring slots for accepting restraint fixings to large capacity channels with integral anchors. They provide the necessary adjustment required when fixing to concrete and can eliminate site drilling. Nail holes aid the fixing of channels to timber formwork and an infill prevents the ingress of concrete during casting.

Cast-in fixings do not generate expansive forces in the concrete and can be used at close centres and closer to the edges than expansion fixings.

#### Omega

The Omega 21/18 Channel is a self-anchoring channel for use with Ancon wall ties. The shallow depth of 18mm allows the channel to be used where there is reduced cover to the reinforcement. Nail holes aid the fixing of the channel to timber formwork. If steel formwork is to be used, or the formwork is to be surface-vibrated, please seek advice from Buildspan's sales team.

#### 30/20

Ancon 30/20 is a high performance channel. Its unique shape allows the applied load to be fed directly from the channel lips to the anchors and the more compact section size improves its fit between reinforcement. Specially designed T-head bolts ride up the sloping sides of the channel and securely lock behind the front lips. This channel also accepts standard 20mm wide wall ties.

#### AnconLock

AnconLock has teeth cut into the returned lips of the channel. The 'T' head bolts used to fix to this channel have a matching serrated surface on the underside of the head which provides a high resistance to slip under shear load along the line of the channel.

#### CombiDeck

Ancon CombiDeck has been developed for use with the permanent metal deck shuttering of steel frame structures. CombiDeck edge support is supplied with an integral channel section, usually 30/20 channel, built into the side to accept Ancon 'T' head bolts.

### SURFACE-FIXED CHANNELS

Plain-backed channels can be surface-fixed to steel, concrete and in some instances, masonry.

#### 25/14

Ancon 25/14 accepts Ancon -25 wall ties and has been designed to tie masonry cladding to steel frames, including light section steel studwork. It is fixed to the steel at 450mm vertical centres with self-drilling screws. The channel is supplied with pre-punched holes at close centres to allow cutting on site and has a 16mm opening to accommodate a drive socket for the fixing screws.

#### Ancon Channel

Ancon Channels are produced in a range of profiles.

Channel Reference	Standard Bolts	'T' Bolt Length mm	Tightening Torque Nm	Other Size Bolts	Preferred Lengths mm	Stainless Steel		Carbon Steel	Hot-dipped Galvanised
						304	316/320		
21/18	-	-	-	-	100, 3000	✓	✗	✗	✗
36/8	-	-	-	-	100, 3000	✓	✗	✗	✗
25/14	-	-	-	-	800, 1200, 2700, 3000	✓	✓	✗	✗
28/15	M10	30, 50, 90	20	-	100, 150, 3000	✓	✓	✓	✓
38/17	M12	40, 50, 60	30	M16 x 50	100, 150, 3000	✓	✓	✓	✓
30/20	M12	50, 100	50	-	100, 150, 3000	✓	✗	✗	✗
40/25	M16	50	70	-	1000, 3000	✓	✓	✓	✓
41/27	M16	40, 50, 80	70	-	100, 150, 200, 3000	✓	✓	✗	✗
49/30	M16	50, 80	70	M12 x 50, M20 x 55	3000	✓	✓	✓	✓
54/33	M20	75	120	M12 x 50, M16 x 50	3000	✗	✓	✓	✓
72/49	M24	50, 100	200	-	3000	✗	✓	✓	✓

### FIXING TO CHANNELS

Fixing to channels is by 'T' head bolts. These are inserted into the channel and turned through 90°. The bolt must then be tightened to the correct torque. Tapped plate washers can be used as an alternative to 'T' bolts where non-standard bolt lengths or diameters are required.

### RESTRAINT FIXINGS

Ancon wall ties can be used with 25/14, 28/15, 30/20, 38/17 and 36/8 channels in order to provide the necessary restraint to an outer leaf of masonry.