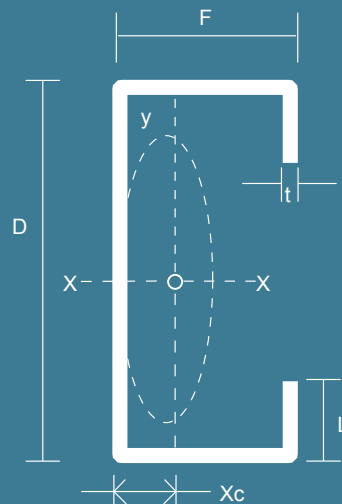


# C-Purlin

UGI C-Purlins (Lipped Channels) are lightweight structural steel members, manufactured by cold forming of high strength zinc-coated steel conforms to Australian Standard AS1397.

UGI Galvanised C-Purlins are made available in custom lengths in which they are supplied either with or without hole punching. If punching is required, please refer to Holing, Cleats & Fastening table in page 2 for further details.



## Common Use Of This Product

- UGI Galvanised C-Purlins are commonly used as roof and cladding support in portal frames and trusses.

## Warning

- ▶ Purlins should be stored off the ground (to avoid getting wet) and on a slight slope so that water can be drained away.
- ▶ Direct contact of incompatible material should be avoided. In such applications, suitable paint systems should be obtained from paint manufacturers.
- ▶ Special transport requirements are needed for length over 12m.

## Specification

<b>Material</b> □	Hot Dipped Galvanised Steel
<b>Thickness (mm)</b> □	1.6, 2.0 & 2.5
<b>Standard</b> □	Australian Standard AS 1397
<b>Steel Strength</b> □	G450
<b>Zinc Coating</b> □	Z275

## Tolerances

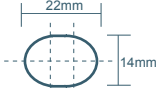
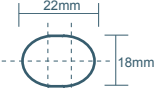
<b>Depth (D)</b> □	+ / - 5mm
<b>Flange Width (F)</b> □	+ / - 3mm
<b>Lips (L)</b> □	+ / - 3mm
<b>Hole Centres</b> □	+ / - 1.5mm
<b>Purlin Length</b> □	+ / - 20mm

## Properties

Product	Thickness	Area	Unit Weight	Second Moment of Area		Section Modulus		Radius of Gyration		Centroid
	t	A	Mass	I <sub>x</sub>	I <sub>y</sub>	Z <sub>x</sub>	Z <sub>y</sub>	R <sub>x</sub>	R <sub>y</sub>	X <sub>c</sub>
	mm	mm <sup>2</sup>	kg/m	x10 <sup>6</sup> mm <sup>4</sup>	x10 <sup>6</sup> mm <sup>4</sup>	x10 <sup>3</sup> mm <sup>3</sup>	x10 <sup>3</sup> mm <sup>3</sup>	mm	mm	mm
C10016	1.6	330	2.738	0.49	0.11	10.04	6.40	38.42	18.34	16.57
C10020	2.0	411	3.423	0.60	1.14	12.39	7.82	38.23	18.16	16.37
C12516	1.6	369	3.052	0.83	0.12	13.68	7.72	47.57	18.08	14.83
C12520	2.0	460	3.815	1.03	0.15	16.92	9.44	47.36	17.89	14.63
C15016	1.6	452	3.743	1.55	0.24	20.95	12.34	58.49	23.10	18.76
C15020	2.0	564	4.679	1.92	0.30	26.00	15.16	58.28	22.91	18.56
C15025	2.5	689	5.731	2.32	0.36	31.50	18.17	58.05	22.69	18.33
C20016	1.6	566	4.647	3.39	0.40	34.37	19.05	77.37	26.60	20.24
C20020	2.0	708	5.809	4.21	0.49	42.77	23.48	77.15	26.40	20.04
C20025	2.5	866	7.116	5.12	0.59	51.99	28.23	76.91	26.18	19.82

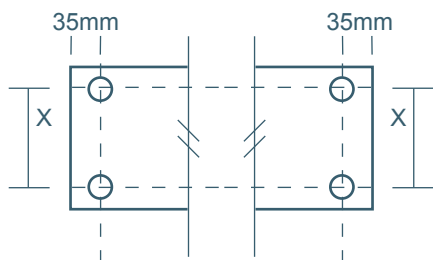
## Holing, Cleats, Fastening

Standard UGI C-purlins are supplied without hole punched. On request, punched C-Purlin can be supplied with H14 or H18 elongated holes, with recommended bolt size as stated in table below. For additional component (Tie Rod) to support the application, please refer to our UGI Technical Department.

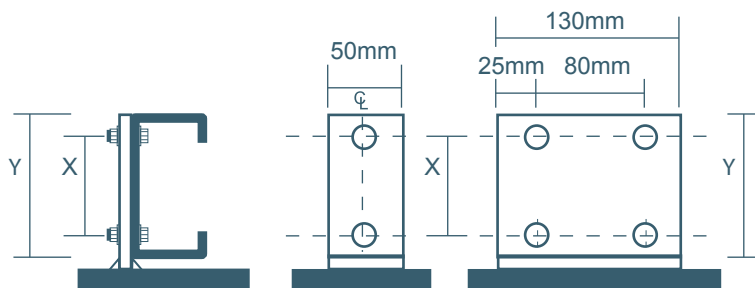
Product	M12				M16			
								
	B	X	Y	Bolt size	B	X	Y	Bolt size
C100	40mm	40mm	100mm	M12	40mm	40mm	100mm	M16
C125	N/A	N/A	N/A	N/A	47.5mm	50mm	120mm	M16
C150	55mm	50mm, 60mm	135mm	M12	55mm	60mm	135mm	M16
C200	55mm	110mm	190mm	M12	55mm	110mm	190mm	M16

## Pre-Punched Hole Detail

The distance from the edge of C-Purlin to the centre of the first set of pre-punched holes are 35mm.



## Cleat Detail



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**Manufacturer of steel roofing, steel wire products and GI purlin.**

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Distributor