

PURLINS & GIRTS

We fabricate heavy duty C section purlins and girts from roll formed galvanised NZ steel. These are tested and approved by structural engineers for the New Zealand construction industry and are perfect for pre-engineered sheds, garages and workshops. Our purlins and girts are strong, lightweight, don't need welding and can be manufactured to your required length.

AUTHORISED SUPPLIER



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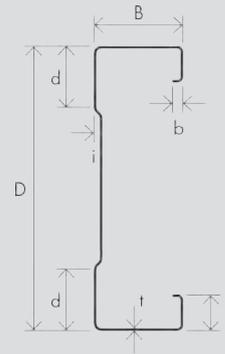
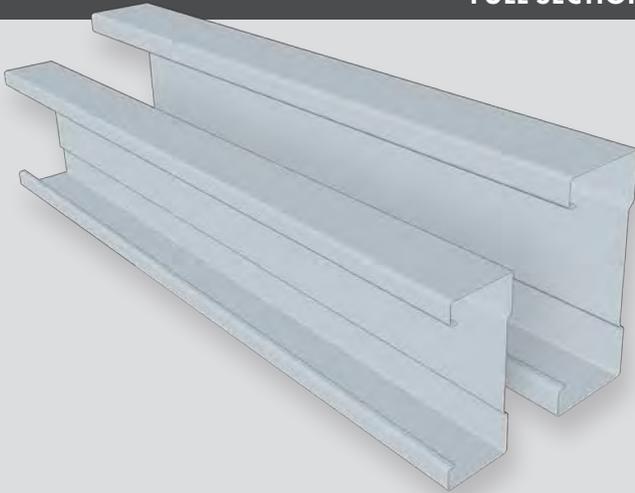
www.freemanroofing.co.nz

154 Meadows Road, Washdyke, Timaru



Family owned
since 1956

FULL SECTION PROPERTIES



Purlin Section	DxB mm	t mm	Mass kg/m	Weight kN/m	Area mm ²	d mm	i mm	b mm	l mm	I _{xx} 10 ⁶ mm ⁴	I _{yy} 10 ⁶ mm ⁴	Z _{xx} 10 ³ mm ³	J mm ⁴	I _w 10 ⁹ mm ⁶
CLR 150/12	150x65	1.15	2.96	0.03	378	54	4	10	23	1.33	0.244	17.73	168	1.44
CLR 150/15	150x65	1.45	3.72	0.04	474	54	4	10	23	1.66	0.301	22.13	334	1.76
CLR 200/12	200x75	1.15	3.68	0.036	468	63	6	12	25	2.845	0.377	28.78	206	3.8
CLR 200/15	200x75	1.45	4.59	0.045	584	63	6	12	25	3.533	0.462	35.85	409	4.5
CLR 200/18	200x75	1.75	5.49	0.054	699	63	6	12	25	4.199	0.539	42.74	713	5.2
CLR 250/13	250x85	1.25	5.00	0.049	638	67	7	12	33	5.99	0.67	48.0	324	97
CLR 250/15	250x85	1.45	5.80	0.057	740	67	7	12	33	6.92	0.77	55.4	506	112
CLR 250/18	250x85	1.75	7.00	0.069	893	67	7	12	33	8.29	0.92	66.4	890	134
CLR 300/15	300x100	1.45	6.82	0.067	870	67	7	12	38	11.86	1.26	79.1	600	261
CLR 300/18	300x100	1.75	8.23	0.081	1050	67	7	12	38	14.11	1.49	94.2	1054	310
CLR 350/18	350x100	1.75	9.06	0.089	1155	77	7	12	43	20.60	1.64	117.7	1161	467
CLR 350/23	350x100	2.25	12.42	0.122	1584	77	7	12	43	27.90	2.19	160.0	2995	633

DURABILITY

Galvsteel™ material, when used for purlins, girts or framing will have a durability of 50 years when used and maintained as defined below.

1. Specifications

Zinc coating weight;	275g/m ² (Z275) or 450g/m ² (Z450)
Complying with;	AS 1397:2001
Steel Grade;	G250, G300, G450, G500 or G550
Steel Thickness Range;	1.15-2.25 mm
Bend diameter;	G250, G300; 2 ≥ 2T G450, G500, G550; 2 ≥ 4T (where T = total coated thickness)

2. Fixing, Handling and Maintenance according to the following publications:

- New Zealand Steel Limited, Specifiers and Builders Guide, and Installers Guide (refer www.nzsteel.co.nz for most current version).
- NZ Metal Roof & Wall Cladding, Code of Practice, Version 2 – Apr. 2008.
- AS/NZS 2312:2002 (Incorporating Amendment No. 1) Guide to the protection of structural steel against atmospheric corrosion by the use of protective coatings.
- Instructions and literature published by individual purlin and steel framing manufacturers.

MAINTENANCE

Maintenance is necessary when the galvanised coating ceases to provide sacrificial protection to the steel base, or where the appearance is no longer aesthetically acceptable.

Rust staining or the growth of rust spots usually indicates the breakdown of the galvanised coating. At the first sign of breakdown, the surface should be treated with an appropriate maintenance coating system. All maintenance should be carried out in accordance with AS/NZS 2312:2002 (Incorporating Amendment No. 1) [c] and New Zealand Steelwork Corrosion Coatings Guide (HERA Report R4-133) [d].

Regular inspections and maintenance at the first signs of a problem will extend the durability of the sections.

Timaru's only dedicated manufacturer of genuine
New Zealand made COLORSTEEL® products

