

## PRODUCER INFORMATION

MSS Purlins and Girts, and MC Sections, complete with Bracing Systems, and MS Tophats are manufactured by Metalcraft Industries Ltd, using galvanised steel coil in accordance with AS1397.

### EXTENT AND LIMITATION OF USE

MSS Purlins and Girts, MC Sections, with a Camlok™ or Standard Bracing system, and MS Tophats will depend on spans, loads, bridging and product sizes and should be used with the information provided within this manual. Design and use of these products outside the information provided may result in a reduction in performance.

### MATERIAL SPECIFICATIONS

The galvanised coating used on the steel to manufacture MSS Purlins and Girts, MC Sections, Bracing systems and MS Tophats is designed for internal use only. The coating must be kept clear of corrosive environments and should not be used in contact with chemically treated timber or other treated products in the presence of moisture. If there is evidence of damage to the coating, the area should be cleaned and spot primed to the suppliers recommendations.

Product	Steel Grade	Base Metal Thickness	Zinc Weight mm
MSS Purlins & Girts	G500 (Mpa)	<1.5	275 gm/m <sup>2</sup>
MC Sections	G500 (Mpa)	<1.5	275 gm/m <sup>2</sup>
MSS Purlins & Girts	G450 (Mpa)	>1.5	275 gm/m <sup>2</sup>
MC Sections	G450 (Mpa)	>1.5	275 gm/m <sup>2</sup>
Bracing	G250 (Mpa)	1.15	275 gm/m <sup>2</sup>
Sag Rod		12mm Dia 16mm Dia	Zinc Plate to AS1789 or Galv to AS1640
Tophat	G550 (Mpa)	<1.15	275 gm/m <sup>2</sup>

### PRODUCT HANDLING, STORAGE, INSTALLATION AND MAINTENANCE REQUIREMENTS

MSS Purlins and Girts, MC Sections, Bracing system must be handled, stored and installed using the procedures outlined in this document. The following factors could limit the performance of the product.

1. Site or storage or transit exposure that allows the product to get wet and trap water between flat surfaces. If this happens the product should be dried and restacked.
2. Damage to the profile or surface coating during, handling, storage, installation or by other trade work.
3. The product must be installed in a manner for which they were designed without imposing excessive loads during construction or in their later use.
4. All fixing to the structural steelwork including fitting of bracing must be completed before any loads are imposed.
5. All ancillary products must be of the correct size and design as specified.
6. Other work such as welding, gas cutting or drilling should be carried out under the Design Engineers Supervision as some loss of strength may occur.

### USAGE OUTSIDE GUIDELINES

Where MSS Purlins, Girts, MC Sections, Bracing systems and MS Tophats are being used outside the limitations and procedures given in the manual and this Producer Statement

together with any doubt as to the handling, storage or installation of this product, written approval should be obtained from the manufacturer for any such specific project and prior to the project commencing.

### N.Z.B.C. COMPLIANCE

Use of the MSS Purlins and Girts, MC Sections, Bracing systems and MS Tophats in accordance with the stated guidelines and limitations thereby complies with NZBC Approved Documents:

- B1 Structures
- B2 Durability (BS DD 24:1973) and past history of galvanised steel products in dry interior environments indicates a life of up to 50 years can be reasonably expected.

### PERFORMANCE

Metalcraft MSS Purlins and Girts, MC Sections, Bracing systems and MS Tophats are accurately roll-formed from the specified grade of steel, thus ensuring that they achieve the stated performance.

Load capacities in the tables have been established by calculations in accordance with AS/NZS 4600:1996 "Cold Formed Steel Structures".

Sections chosen using the data provided in the tables will perform as specified when the design, fabrication and erection are carried out in accordance with Metalcraft recommendations and good trade practice.

### DURABILITY

Metalcraft MSS Purlins and Girts, and MC Sections, Bracing systems and MS Tophats will meet a service life of up to 50 years, complying with the durability requirements of NZBC Approved Document B2 providing they are kept free from moisture.

For adverse conditions, including use within 1km of salt marine locations or in severe industrial and unusually corrosive environments, please contact the manufacturer for specialist advice.

### PRODUCT INFORMATION

Metalcraft Industries Ltd require that all information on these products be made available to all sectors of the construction chain to ensure the product is fully maintained and its full life can be realised.

### TOLERANCES

All dimensions are nominal, (rolling tolerances to be considered)

Web depth	+/-2 mm	Flange width	+/-2mm
Lip	+/-1 mm	Length	+/-6mm
Hole Centres	+/-1.5mm	Web/Flange Angle	88-93

Metalcraft Industries Ltd have staff freely available to assist in product selection and to comment upon usage prior to projects being started.

### TABLES

Tables are supported by Engineers calculations.

### ACKNOWLEDGMENT

Franklin Consultants Ltd has assisted in the development of the purlin system and production of the manual.

EMC<sup>2</sup> Ltd has assisted in the development of the Tophat system and production of the manual.