

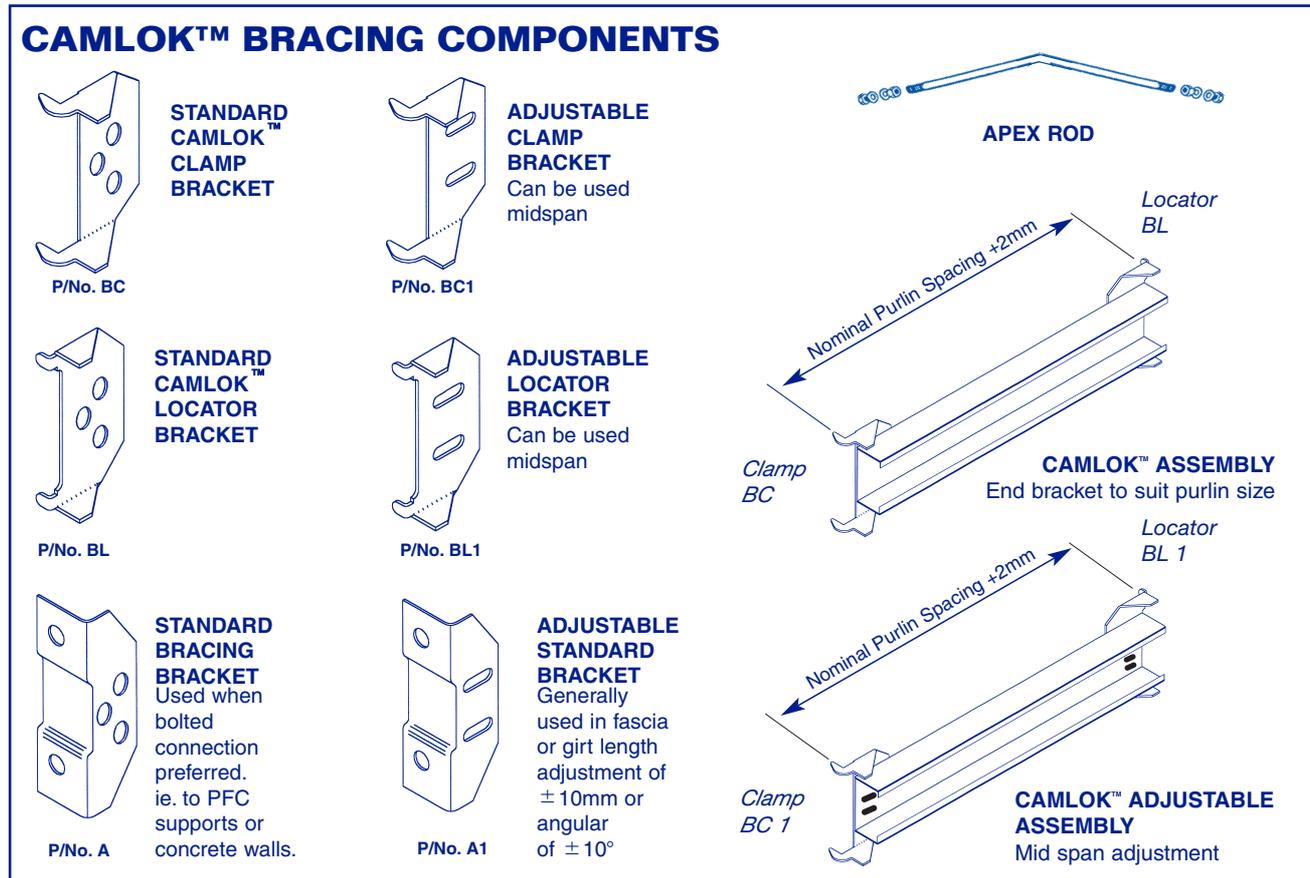
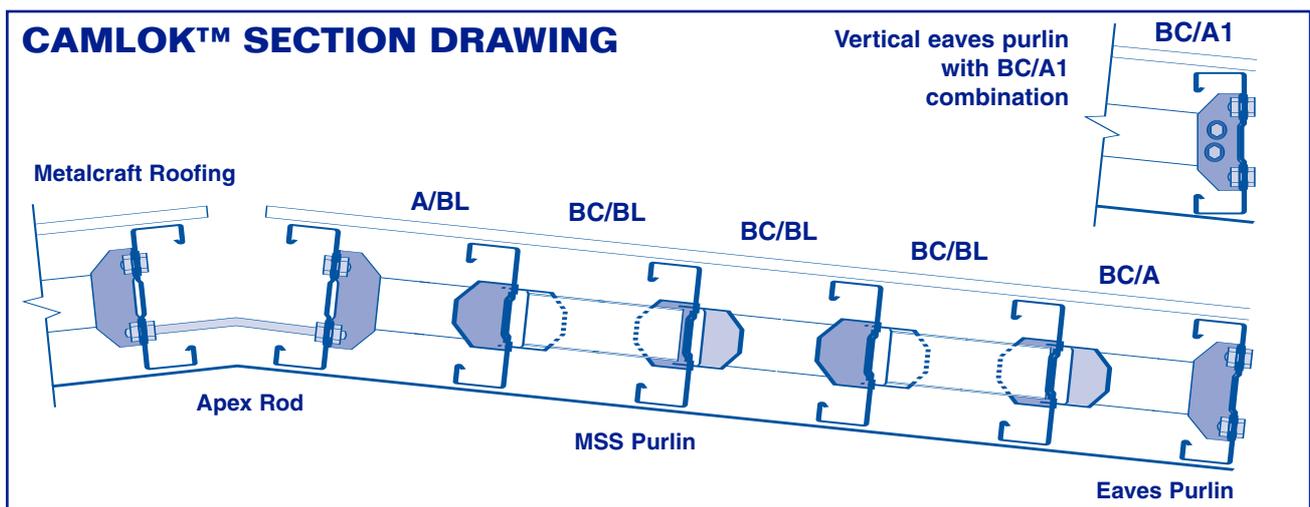
## BRACING SYSTEMS

Metalcraft has two bracing systems, Camlok™ and Standard. All Purlins and Girts should be braced to maximize the design limit of the component. It is recommended that at least one row of bracing be used on any span, particularly if temporary loads may be experienced during construction. If the bracing is required to support super imposed dead loads (eg: lighting, sprinklers) specific design will be required.

Camlok™ is a solid bracing system that has no sag rods to place and no bolts or washers to fix. This has proven to save up to 75% of time in Bracing installation, giving considerable cost advantages.

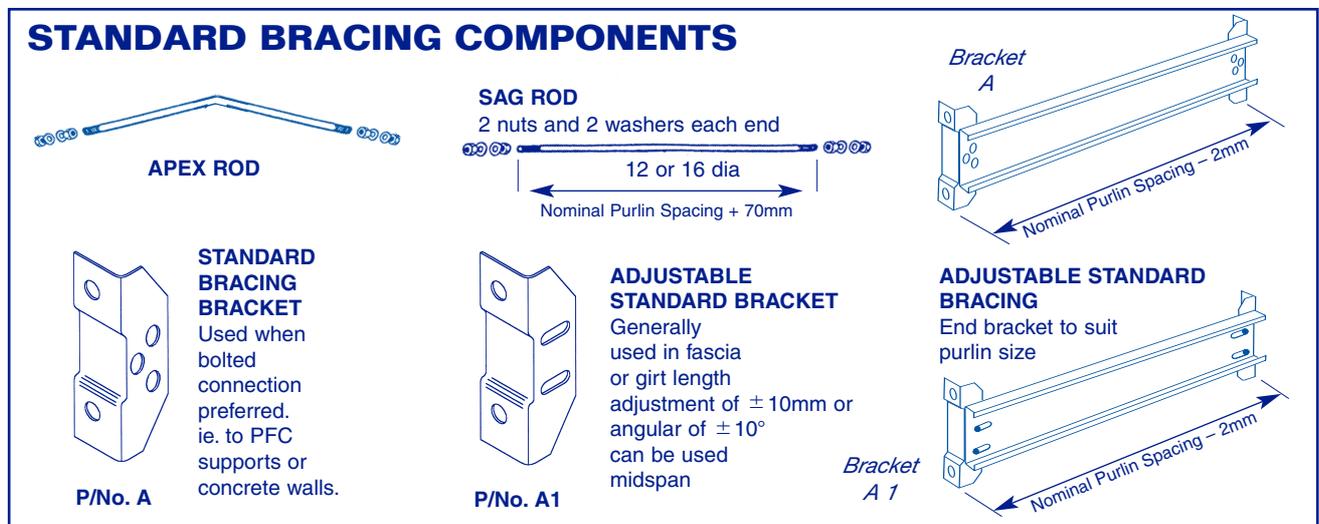
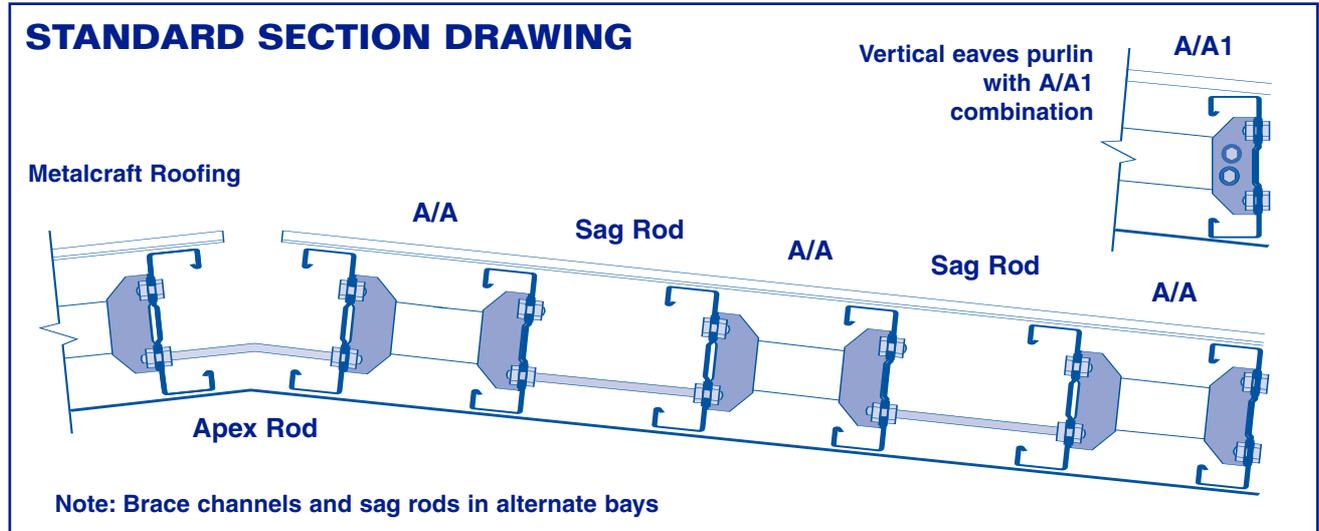
Metalcraft MSS Purlin and Girt system has been designed for bolting to cleats using the tables provided for hole and cleat dimensions. M12 or M16 Class 4.6 bolts and washers must be used. Design Engineers should give consideration to the bolt diameter, washer size and cleat material and thickness to be used also considering the reaction caused by double or continuous spans and high loads. The bracing systems are formed from galvanised Grade 250 steel.

## CAMLOK™ BRACING SYSTEM

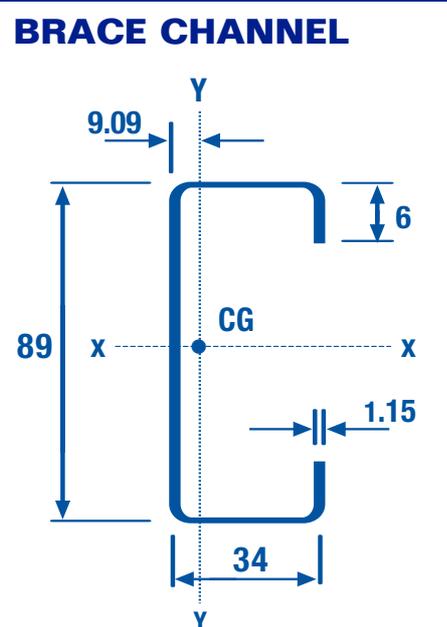


## STANDARD BRACING SYSTEM

Standard Bracing and Sag Rod's are fitted to alternate bays with the channel located adjacent to both the ridge and eave purlin. Sag Rod's are available in either 12dia or 16dia and are provided Zinc or Hot Dip Galvanized. They should be installed in the lower pre-punched fixing hole.



### BRACE CHANNEL



### BRACE CHANNEL PROPERTIES

Tabulated section properties are based on full unreduced sections.

Mass kg/m	Weight kN/m	Area mm <sup>2</sup>	I <sub>xx</sub> 10 <sup>6</sup> mm <sup>4</sup>	I <sub>yy</sub> 10 <sup>6</sup> mm <sup>4</sup>	Z <sub>xx</sub> 10 <sup>3</sup> mm <sup>3</sup>	Column Properties	
						J mm <sup>4</sup>	I <sub>w</sub> 10 <sup>9</sup> mm <sup>6</sup>
1.44	0.014	184	0.22	0.02	4.99	81.0	0.04

### BRACE CHANNEL SELECTION

for MSS Purlin spacings up to 3.0m  
 Maximum DESIGN LINEAR LOAD CAPACITY occurring on Purlin (kN/m),  $\phi_b W_b$

MSS Purlin	1 Brace	2 Braces	3 Braces
150	7.6		
200	4.6	9.1	
250	3.1	6.1	9.1
275	2.5	5.0	7.5
300	2.1	4.2	6.2
325	2.0	3.9	5.8
350	2.0	3.7	5.5
400	*	3.3	4.6

\* NOT RECOMMENDED  
 Brace specifications outside the brace channel selection guidelines will require specific design.