



Conventional Box Gutter systems have, over many years, been extensively criticised by both specifiers and installers.

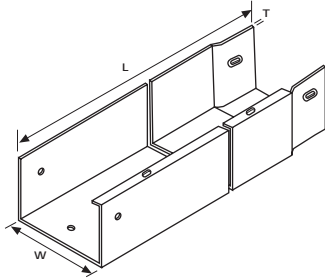
The Guttermaster solution addresses the two main areas of criticism which are 'poor jointing' and inadequate support arrangements.

The RG range is available with joggle feature as indicated, or plain ended with separate internal union. Where the joggle feature is required please suffix product code with J.

## Standard Gutter Length

Use maximum lengths to minimise joints

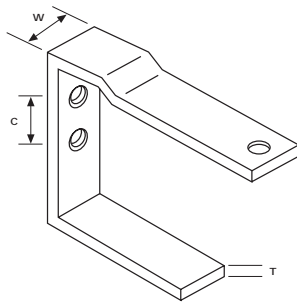
dim (mm)	Ref: RG/4x3	RG/5x4
W	98	125
T	2	2
D	73	100
L	TO 3000	TO 3000
dim (mm)	Ref: RG/6x4	RG/8x6
W	150	197
T	2	2 or 3
D	100	149
L	TO 3000	TO 3000



## Fascia Brackets- with wind and snow restraint

Other types of brackets available - please enquire.

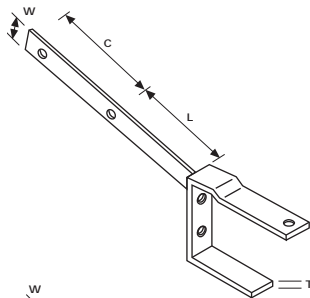
dim (mm)	Ref: RFB/4x3	RFB/5x4
C	25	25
W	25	25
T	5	6
dim (mm)	Ref: RFB/6x4	RFB/8x6
C	25	35
W	25	30
T	6	6



## Rafter Brackets - with wind and snow restraint

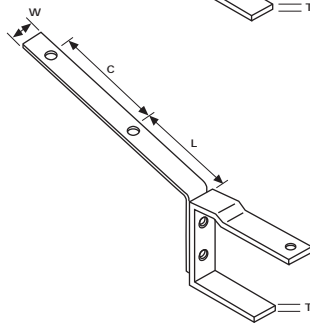
### SIDE FIXING

dim (mm)	Ref: RRS/4x3	RRS/5x4
L	100	100
C	100	100
W	25	25
T	5	6
dim (mm)	Ref: RRS/6x4	RRS/8x6
L	100	100
C	100	100
W	25	30
T	6	6



### TOP FIXING

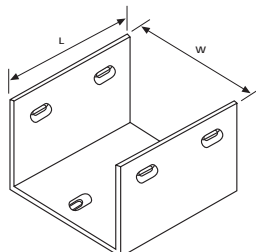
dim (mm)	Ref: RRT/4x3	RRT/5x4
L	100	100
C	100	100
W	25	25
T	5	6
dim (mm)	Ref: RRT/6x4	RRT/8x6
L	100	100
C	100	100
W	25	30
T	6	6



Please specify pitch of rafters/trusses.

## Union Joints

dim (mm)	Ref: RUJ/4x3	RUJ/5x4
L	98	98
W	94	121
dim (mm)	Ref: RUJ/6x4	RUJ/8x6
L	98	98
W	146	193



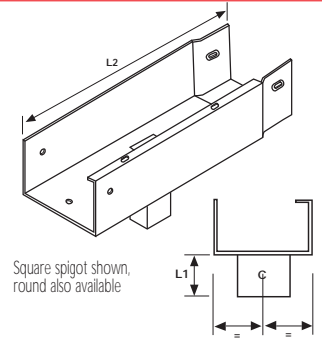
## Special Features:

- The only system to supply wind and snow resistant brackets as standard (a common cause of failure in competitive systems)
- Socket and spigot joints with spacers, prevent over tightening and subsequent leakage, replacing unreliable and unsightly 'butt straps' and unions found on inferior systems.
- Supplied in standard 2.0mm thickness to BS 2997, but is also readily available in 2.5mm and 3.0mm
- Guttermaster systems use only 4015 H12 alloys in compliance with BS requirements (softer commercial grades of alloys can be found in competitive systems).

## Running Outlets

Where deep fascia boards are to be used 'L1' can be increased. This should be noted when specifying.

dim (mm)	Ref: RRO/4x3	RRO/5x4
L1	100	100
L2	300	300
dim (mm)	Ref: RRO/6x4	RRO/8x6
L1	100	100
L2	300	300



## Angles

### Where Ø is 90°

#### EXTERNAL ANGLE

dim (mm)	Ref: REX90/4x3	REX90/5x4
L	248	275
dim (mm)	Ref: REX90/6x4	REX90/8x6
L	300	347

#### INTERNAL ANGLE

dim (mm)	Ref: RIN90/4x3	RIN90/5x4
L	248	275
dim (mm)	Ref: RIN90/6x4	RIN90/8x6
L	300	347

### Where Ø is 135°

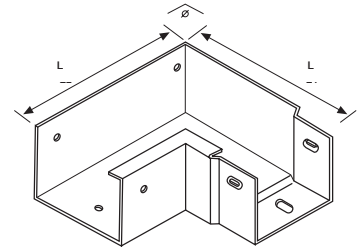
#### EXTERNAL ANGLE

dim (mm)	Ref: REX45/4x3	REX45/5x4
L	191	202
dim (mm)	Ref: REX45/6x4	REX45/8x6
L	252	233

#### INTERNAL ANGLE

dim (mm)	Ref: RIN45/4x3	RIN45/5x4
L	191	202
dim (mm)	Ref: RIN45/6x4	RIN45/8x6
L	212	233

Angles are available in standard 90° & 135° (Ø).  
Non-standard angles are also readily available.



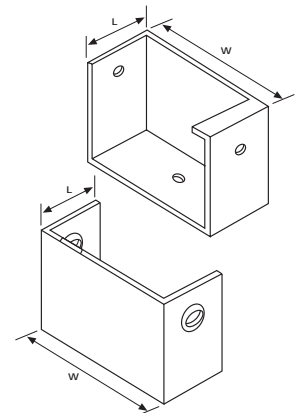
## Stop Ends

### LEFT HAND

dim (mm)	Ref: RSLH/4x3	RSLH/5x4
L	51	51
W	94	121
dim (mm)	Ref: RSLH/6x4	RSLH/8x6
L	51	51
W	146	193

### RIGHT HAND

dim (mm)	Ref: RSRH/4x3	RSRH/5x4
L	45	45
W	94	121
dim (mm)	Ref: RSRH/6x4	RSRH/8x6
L	45	45
W	146	193



All dimensions can be adjusted to suit specific requirements.

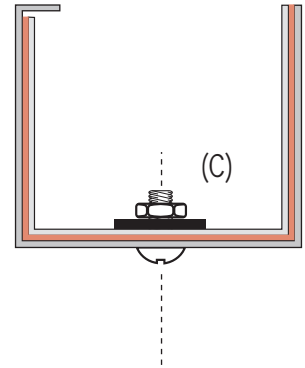
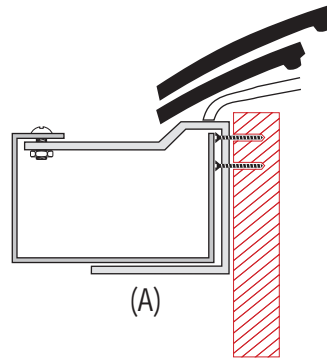
### DIMENSIONAL ABBREVIATIONS

W = Width	C = Centres	Ø = Angle
D = Depth	H = Height	T = Thickness
L = Length	A = Adjustability	P = Projection



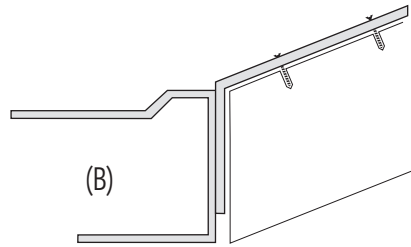
**FIXING WITH FASCIA BRACKETS (A)**

Position the outlets to line up with drain location. Fix fascia brackets within 300mm either side of the outlets. Fix additional brackets within 150mm of angles and stopends. Set a line between these brackets, all remaining brackets should then be fixed at maximum 1,000mm centres. Brackets should be secured to fascia board with No. 10 x 30mm zinc plated or stainless steel countersunk twin threaded screws. The bracket is designed to hold the gutter off the fascia by 25mm to allow all jointing to be carried out at eaves level. Once this has been completed the gutter is pushed back into position and secured to the snow load restraint, using the M6 bolts and nuts provided.

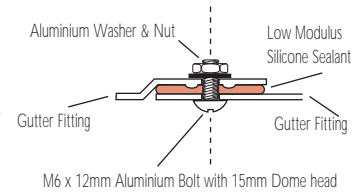


**FIXING TO RAFTERS (B)**

Position outlets as above. Bracket locations will be dictated by the rafter positions. For this reason it will be necessary to reduce the fixing centres to 600mm maximum. In practice this will usually mean that every rafter will have a bracket. When using side fixing rafter brackets, it will be necessary to notch each rafter. Rafter brackets should be secured using No.12 x 40mm. zinc plated or stainless steel countersunk twin threaded screws.



SECTION THROUGH 'C'

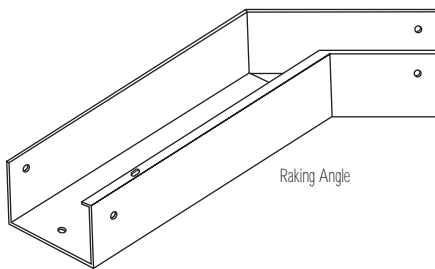


**SEALING THE JOINTS (C)**

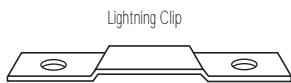
Ensure both surfaces of the gutter joint are clean - Guttermaster recommends the use of Loctite 7063 Cleaner. Apply low modulus neutral cure silicone to BS5889 (type A) in 6mm diameter continuous beads around the full girth of the gutter. Insert the internal union (or the spigot into the socket) and secure with aluminium bolts using 29mm diameter neoprene backed washer and nuts (provided by Guttermaster). The spacers in the joint will offer resistance when the bolts are tight enough - DO NOT OVERTIGHTEN. Smear sealant around exposed threads of bolts. Remove excess sealant. Allow 24 hours for partial cure.

**FURTHER INFORMATION CAN BE FOUND IN INSTRUCTION SHEET REF. IS-RG1, AVAILABLE ON REQUEST**

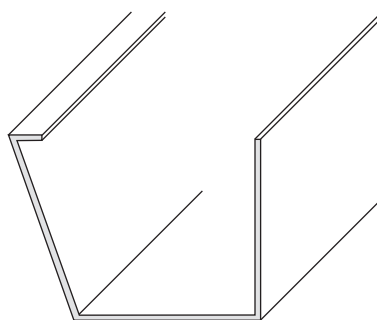
**PURPOSE MADE COMPONENTS - PLEASE ENQUIRE.**



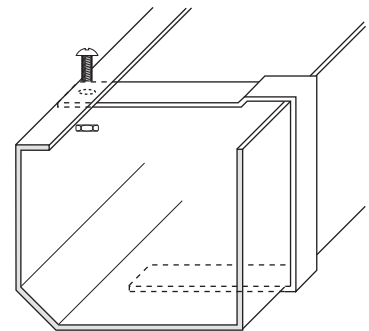
Raking Angle



Lightning Clip

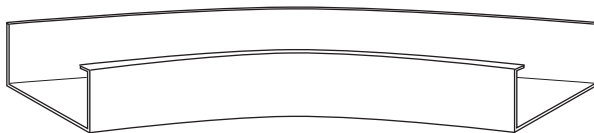


Box Gutter with Sloping front.

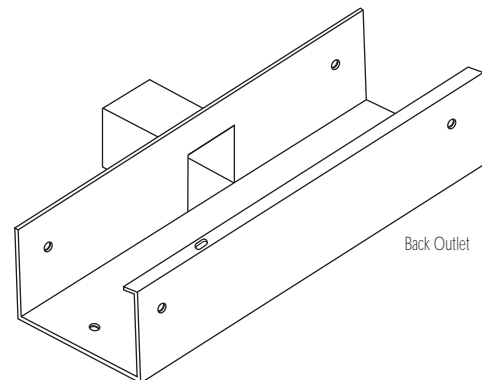
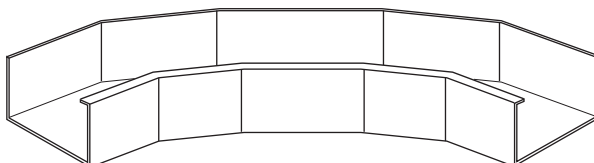


Box Gutter with Chamfered Corner

Radius Gutter



Segmented Gutter



Back Outlet