All framework brackets are manufactured to BS 6946 from steel which complies with BS EN 10025 Grade S275JRC and are supplied singly. Channel nuts and setscrews are not supplied with brackets, therefore must be ordered separately

■ Dimensions and weights

Made from 5 or 6 mm thick steel unless otherwise stated
Brackets are 40 mm wide and have 14 mm diameter holes to accept M12 (or smaller) setscrews
All bend radii are 5 mm unless otherwise stated

Weights

All weights given are in kilograms (kg) based on nominal thickness and are for hot dip galvanised finish. For weights in stainless steel finish contact us on +44 (0) 845 605 4333

Loads

All loads are for hot dip galvanised brackets fixed with M12 setscrews and M12 zinc plated channel nuts. Loads for stainless steel brackets are available on request - contact us on +44 (0) 845 605 4333
Minimum Yield Stress of material is 275 N/mm^2
Only M10 or M12 channel nuts and bolts should be used for the attachment of load-bearing brackets
In most cases the mode of failure will be slippage of the bracket along the channel. However there are few channel/bracket combinations where the maximum load is dependant upon the strength of the bracket itself

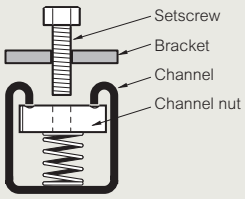
■ Finishes and standards

The standard finish for all framework brackets and beam clamps is hot dip galvanised steel to BS EN ISO 1461
Stainless steel to BS EN 10088 : Grade 1.4404 (equivalent to S316L31) is also available as an alternative where applicable. To order stainless steel finish add S to the end of the standard catalogue number
For example : SB500S

■ Assembly

Fasteners (not included)

Fixing brackets to Swiftrack channel



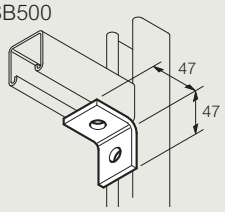
Standard fasteners for Swiftrack are high tensile hexagon head setscrews to BS 3692-8.8, these being zinc plated to BS 3382 : Part 2
The use of too long a fastener will prevent proper tightening because the bolt end will foul the bottom of the channel before the head tightens down on the fitting
When fastening brackets other than Swiftrack, longer bolts may be required if the bracket thickness is greater than 8 mm
For channel nuts, see p. 101

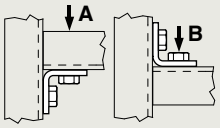
Channel type	Backplate thickness	Recommended fasteners(1)
Deep channel SC400 series	6 mm and 8 mm 5 mm and 6 mm	M10 or M12 x 35 mm(2) M10 or M12 x 20 mm
Shallow channel SC200 series	7 mm and 8 mm 5 mm and 6 mm	M10 or M12 x 25 mm(2) M10 or M12 x 20 mm

(1) The use of too long a fastener will prevent proper tightening because the bolt end will foul the bottom of the channel before the head tightens down on the fitting
(2) When fastener brackets other than Swiftrack, longer bolts may be required if the bracket thickness is greater than 8 mm

■ 90° brackets

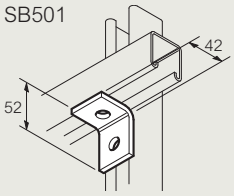
SB500

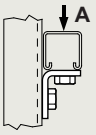




Maximum load on each bracket with both ends supported : A = 350kgf. B = 174kgf
Unit weight (kg) : 0·125

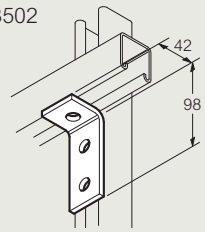
SB501

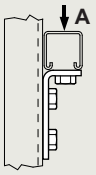




Maximum load on each bracket :
A = 180kgf
Unit weight (kg) : 0·125

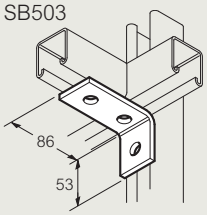
SB502

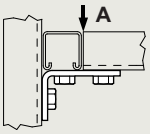




Maximum load on each bracket :
A = 230kgf
Unit weight (kg) : 0·191

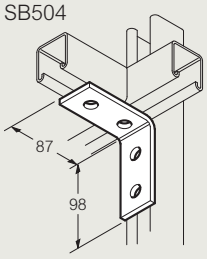
SB503

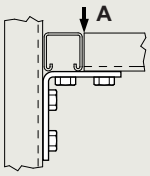




Maximum load on each bracket with both ends supported : A = 120kgf
Unit weight (kg) : 0·191

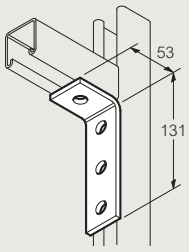
SB504

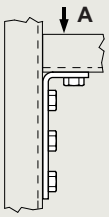




Maximum load on each bracket :
A = 120kgf
Unit weight (kg) : 0·257

SB505



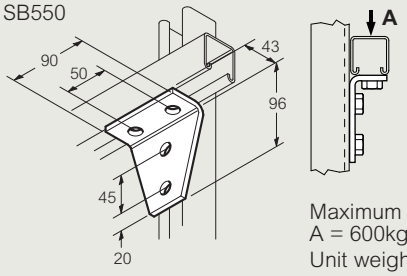


Maximum load on each bracket :
A = 300kgf
Unit weight (kg) : 0·257

All dimensions (mm) are nominal

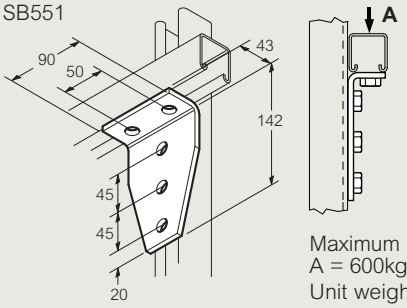
■ 90° brackets (continued)

SB550



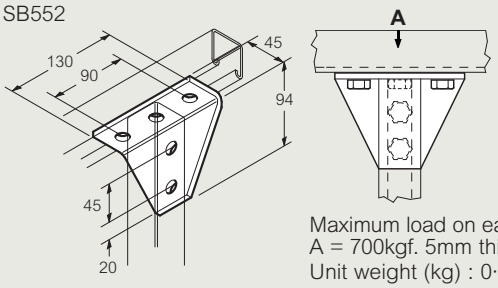
Maximum load on each bracket :
A = 600kgf
Unit weight (kg) : 0·359

SB551



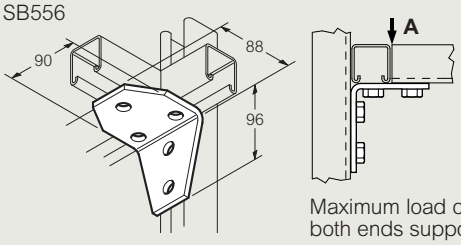
Maximum load on each bracket :
A = 600kgf
Unit weight (kg) : 0·516

SB552



Maximum load on each bracket :
A = 700kgf. 5mm thick.
Unit weight (kg) : 0·488

SB556

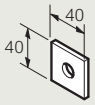


Maximum load on each bracket with both ends supported : A = 260kgf
Unit weight (kg) : 0·478

■ Square plates and splice plates

Square plates

Cat. Nos.	Fasteners	Unit weight (kg)
SB50606	M6	0·063
SB50608	M8	0·062
SB50610	M10	0·061
SB50612	M12	0·058

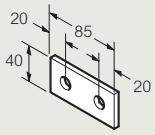


Use as location plate when attaching any special fitment which will not sit across both channel sides

Splice plates

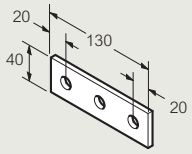
Holes spaced at 45 mm centres

SB507



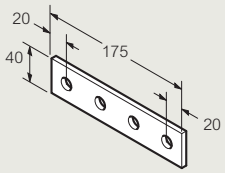
Unit weight (kg) : 0·125

SB508



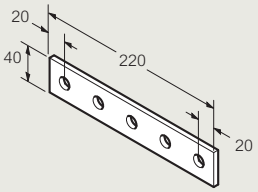
Unit weight (kg) : 0·191

SB509



Unit weight (kg) : 0·257

SB510

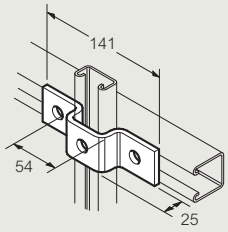


Unit weight (kg) : 0·323

■ U and Z brackets

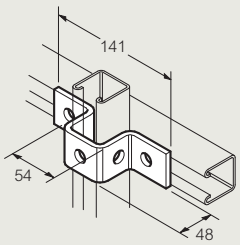
U bracket

SB514



Unit weight (kg) : 0·243

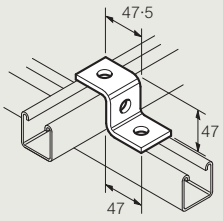
SB515



Hole on one side of bracket only
Unit weight (kg) : 0·307

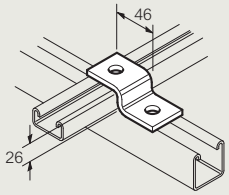
Z bracket

SB511



Unit weight (kg) : 0·179

SB513

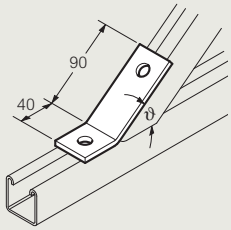


Unit weight (kg) : 0·150

All dimensions (mm) are nominal

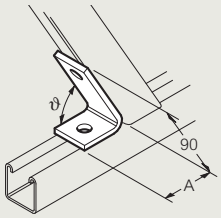
■ Angle brackets and plates

Obtuse angle brackets



Cat. Nos.	Angle ϑ	Unit weight (kg)
SB520	15	0·197
SB524	45	0·197
SB526	60	0·197
SB528	75	0·197

Acute angle brackets

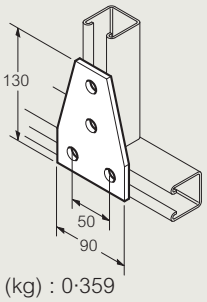


Cat. Nos.	Angle ϑ	A (mm)	Unit weight (kg)
SB532	45	65	0·237
SB534	60	46	0·197
SB536	75	46	0·197

■ T brackets and plates

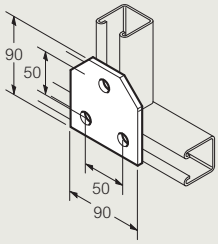
T plate

SB554



Unit weight (kg) : 0·359

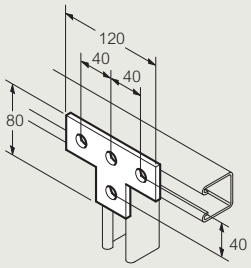
SB555



Unit weight (kg) : 0.284

T bracket

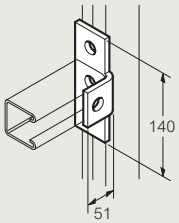
SB603



Unit weight (kg) : 0·233

90° T bracket

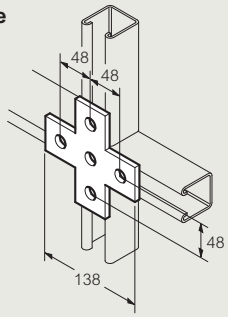
SB606



Unit weight (kg) : 0·32
Not available in S finish

Cross plate

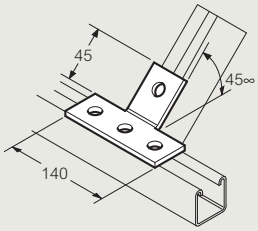
SB603+



Unit weight (kg) : 0·35
Not available in S finish

45° T bracket

SB607

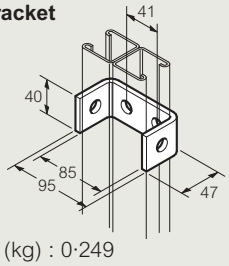


Unit weight (kg) : 0·32
Not available in S finish

■ Joining brackets and channels

Jointing bracket

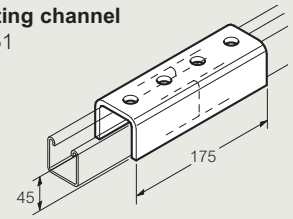
SB518



Unit weight (kg) : 0·249

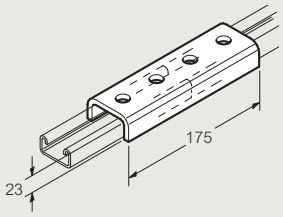
Jointing channel

SB651



For SC400 channel. 45 mm deep
Unit weight (kg) : 0·85

SB650

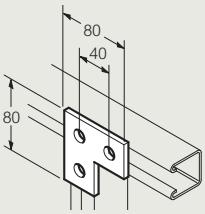


For SC200 channel. 23 mm deep
Unit weight (kg) : 0·55

■ L brackets

L bracket

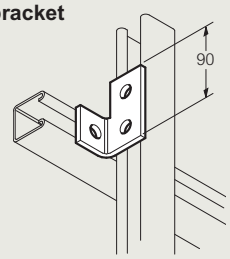
SB600



Unit weight (kg) : 0·163

Left hand L corner bracket

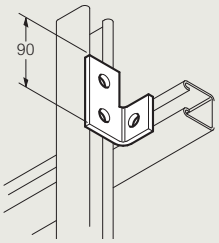
SB602



Unit weight (kg) : 0·27
Not available in S finish

Right hand L corner bracket

SB601

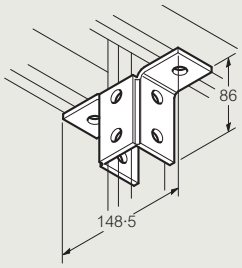


Unit weight (kg) : 0·27
Not available in S finish

All dimensions (mm) are nominal

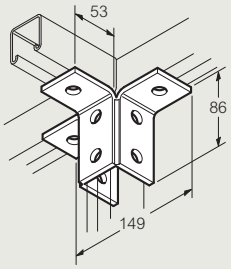
■ Wing brackets and shelf brackets

2 lug wing bracket
SB700



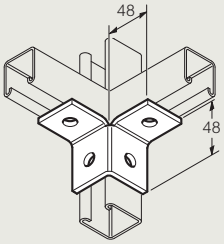
Unit weight (kg) : 0·492

3 lug wing bracket
SB701



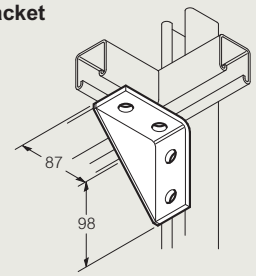
Unit weight (kg) : 0·581

Angled wing bracket
SB707



Unit weight (kg) : 0·250
Not available in S finish

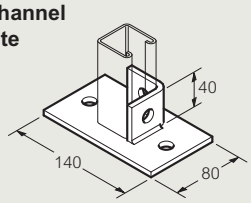
Shelf bracket
SB703



Gusset only, 3 mm thick
Unit weight (kg) : 0·369

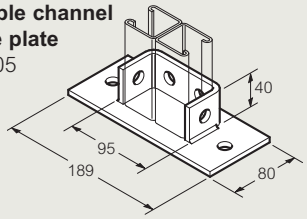
■ Base plates and gusseted brackets

Single channel base plate
SB704



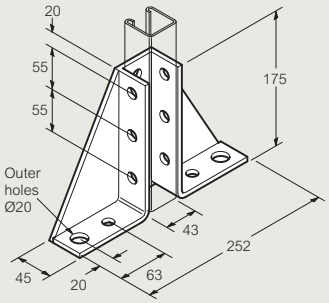
Distance between hole centres : 100 mm
Unit weight (kg) : 0·618

Double channel base plate
SB705



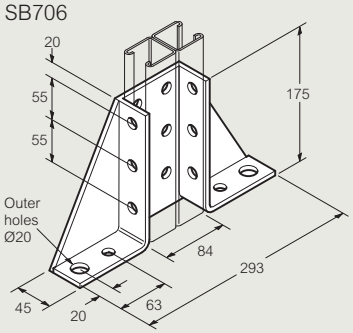
Distance between hole centres : 149 mm
Unit weight (kg) : 0·848

Single channel gusseted bracket
SB702



Unit weight (kg) : 1·848

Double channel gusseted bracket
SB706



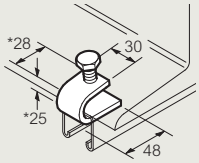
Unit weight (kg) : 2·118

■ Beam clamps

Beam clamps are supplied singly
Nut, bolts, cone point screws and U bolts where shown are included
Beam clamps conform to BS 6946

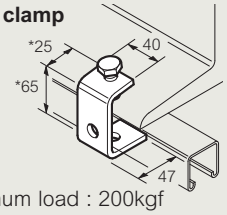
Dimensions and weights
All weights given are in kilograms (kg) based on nominal thickness and are for hot dip galvanised finish unless otherwise stated. For weights in stainless steel finish contact us on +44 (0) 845 605 4333

Beam clamp
SC850



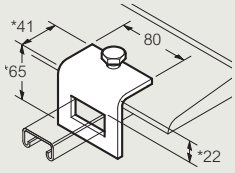
6 mm
Maximum load : 400kgf/pair
Use in pairs
Not available in S finish
Unit weight (kg) : 0.117

Beam clamp
SC851



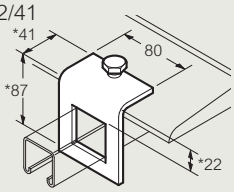
6 mm
Maximum load : 200kgf
Unit weight (kg) : 0·208

Window beam clamp
SC852/21



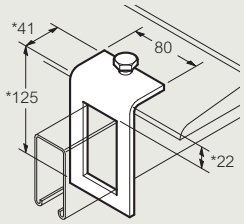
6 mm
For 21 mm channel
Maximum load : 475kgf/pair
Use in pairs
Unit weight (kg) : 0·37

Window beam clamp
SC852/41



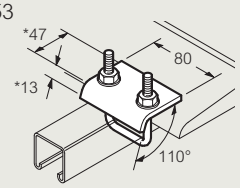
6 mm
For 41 mm channel and 21 mm back-to-back channels
Maximum load : 475kgf/pair
Use in pairs
Unit weight (kg) : 0·52

Window beam clamp
SC852/82



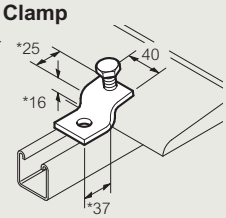
6 mm
For 41 mm back-to-back channels.
Maximum load : 375kgf/pair
Use in pairs
Not available in S finish
Unit weight (kg) : 0·56

Beam clamp
SC853



Maximum load : 900kgf/pair
Use in pairs
Unit weight (kg) : 0·30

Beam Clamp
SC854



6 mm
Maximum load : 350kgf/pair
Use in pairs
Unit weight (kg) : 0·17

(*) Inside dimensions (mm)

All dimensions (mm) are nominal