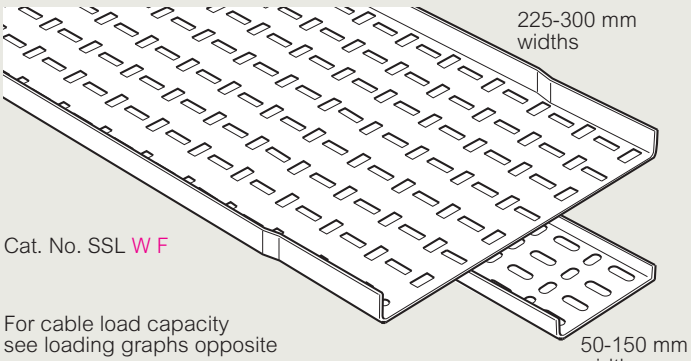
Swifts® SS light duty
straight lengths

12 or 18

■ Dimensions and weights

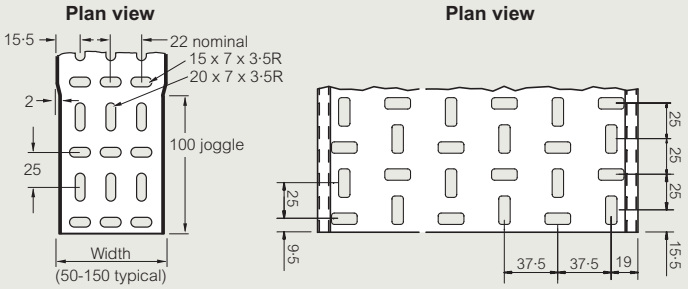


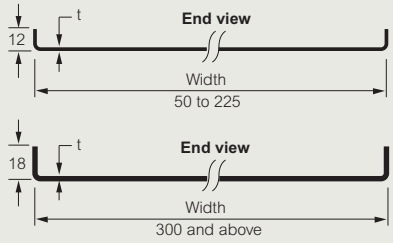
Cat. No. SSL W F

For cable load capacity see loading graphs opposite

Dimensions

Standard length 3 m





R = radius

Gauges and weights

The gauge 't' for each cable tray width and finish can vary by product and range

Non-standard gauges and finishes are available to special order, contact us on +44 (0) 845 605 4333

Cat. Nos.	Width (mm)	Weight (kg)	Gauge t (mm)
SSL50G	50	1·4	0·9
SSL50PG	50	1·2	0·9
SSL50S	50	1·7	1·2
SSL75G	75	1·8	0·9
SSL75PG	75	1·7	0·9
SSL75S	75	2·2	1·2
SSL100G	100	2·3	0·9
SSL100PG	100	2·1	0·9
SSL100S	100	2·9	1·2
SSL150G	150	3·3	0·9
SSL150PG	150	2·8	0·9
SSL150S	150	4·1	1·2
SSL225G	225	5·2	0·9
SSL225PG	225	4·8	0·9
SSL225S	225	7·4	1·5
SSL300G	300	10·4	1·5
SSL300PG	300	9·0	1·4
SSL300S	300	10·0	1·5

All weights given are in kilograms (kg) and are for a 3m straight length in hot dip galvanised G finish

To obtain the appropriate component weight in other finishes, multiply the given weight by the following factors :

Stainless steel (S) x 0·94
Pre-galvanised (PG) x 0·96

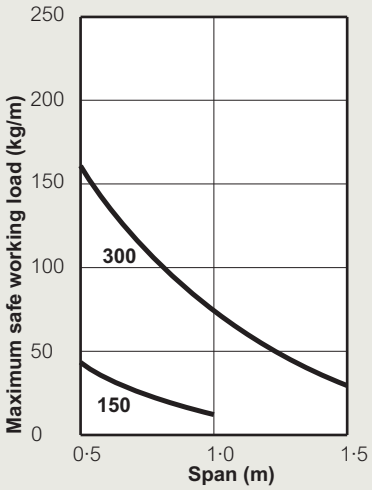
■ Loading graphs

Load tests carried out to BS EN 61537

The loads shown on all graphs are the safe recommended maximum loads that can be applied and must include wind, snow and any other external forces in addition to the cable load

The graphs show the maximum load for tray installed at a support spacing within its recommended range

When the graph line is above the intersection of the required load and span lines, the support equipment is suitable for use within those load and span conditions



For lengths 450 mm wide and greater, the addition of fishplate Cat. No. WF F across the underside of the length-to-length joint provides added strength and increases the safe working load, see p. 101

■ Finishes and standards

Standard stocked finish :

G Hot dip galvanised after manufacture to BS EN ISO 1461 : 2009
PG Pre-galvanised steel to BS EN 10346 : 2009 grade DX51D

Additional finishes :

S Stainless steel to BS EN 10088 – 2 grade 1·4404 (equivalent to 316L31)

Note

50 mm wide not available in deep galvanised (D) finish

Sheared steel (particularly stainless steel) does have relatively sharp edges and protective gloves must be worn during handling

All dimensions (mm) are nominal

Key : Replace the letter shown in red with your choice from the following options :

F = Finish : G (hot dip galvanised after manufacture), PG (pre-galvanised steel), S (stainless steel)

Fishplates : see p. 101

Swifts® SS light duty
straight lengths (continued)

■ Coupling detail

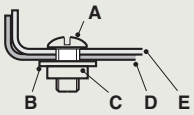


All SS straight lengths have one end joggled to allow jointing without a separate coupler, see illustration
Slide joggled end of length 1 inside length 2 before fastening

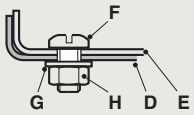
Note
Quantity of bed fasteners
50 - 225 mm = 4, 300 mm = 6

Fasteners (not included)

For G and PG finish



For S finish



A	M6 x 12 roofing bolt
B	Roofing washer
C	M6 square nut
D	Straight length
E	Straight length
F	M6 x 12 panhead screw
G	M6 form A washer
H	M6 hexagon nut

Fastener finishes
For flat bends with G and PG finishes, fasteners are galvanised or zinc plated. For flat bends with S finish, fasteners are stainless steel

Key : Replace the letter shown in red with your choice from the following options :

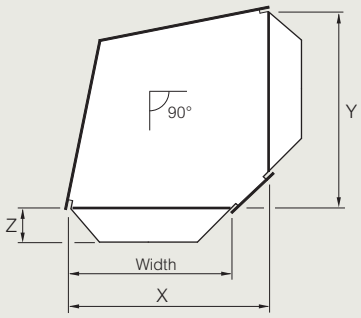
F = Finish : G (hot dip galvanised after manufacture), PG (pre-galvanised steel), S (stainless steel)

All dimensions (mm) are nominal

Swifts® SS light duty fittings
flat bends – 90°, 60°, 45° and 30°

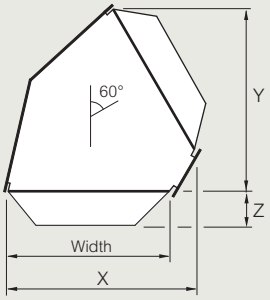
12 or 18

■ 90° flat bends – dimensions and weights
Cat. No. SSB W F



Cat. Nos.	Width	X	Y	Z	Weight (kg)
SSB 50F	50	100	100	32	0·1
SSB 75F	75	125	125	32	0·2
SSB 100F	100	150	150	32	0·3
SSB 150F	150	200	200	32	0·5
SSB 225F	225	275	275	57	1·0
SSB 300F	300	350	350	57	1·5

■ 60° flat bends – dimensions and weights
Cat. No. SSB W 60 F

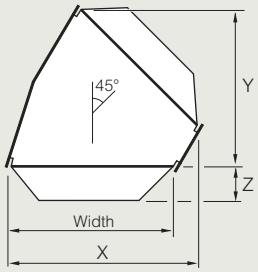


Cat. Nos.	Width	X	Y	Z	Weight (kg)
SSB 50 60 F	50	78	89	32	0·1
SSB 75 60 F	75	103	110	32	0·1
SSB 100 60 F	100	125	131	32	0·2
SSB 150 60 F	150	175	173	32	0·3
SSB 225 60 F	225	250	238	57	0·6
SSB 300 60 F	300	325	303	57	1·0

Key : Replace the letter shown in red with your choice from the following options :

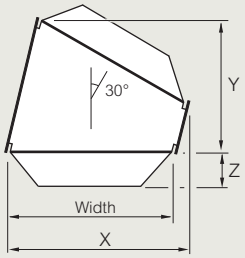
F = Finish : G (hot dip galvanised after manufacture), PG (pre-galvanised steel), S (stainless steel)

■ 45° flat bends – dimensions and weights
Cat. No. SSB W 45 F



Cat. Nos.	Width	X	Y	Z	Weight (kg)
SSB 50 45 F	50	66	73	32	0·1
SSB 75 45 F	75	91	91	32	0·1
SSB 100 45 F	100	116	108	32	0·2
SSB 150 45 F	150	166	144	32	0·3
SSB 225 45 F	225	238	193	57	0·5
SSB 300 45 F	300	315	248	57	0·8

■ 30° flat bends – dimensions and weights
Cat. No. SSB W 30 F



Cat. Nos.	Width	X	Y	Z	Weight (kg)
SSB 50 30 F	50	57	50	32	0·1
SSB 75 30 F	75	82	63	32	0·1
SSB 100 30 F	100	107	75	32	0·1
SSB 150 30 F	150	157	100	32	0·2
SSB 225 30 F	225	229	138	57	0·4
SSB 300 30 F	300	307	175	57	0·7

All dimensions (mm) are nominal

Swifts® SS light duty fittings
flat bends – 90°, 60°, 45° and 30°

12 or 18

■ Dimensions and weights – flat bends 90°, 60°, 45° and 30°

Dimensions

X = Length of fitting from each end (excluding integral coupler)
Y = Length of fitting from each end (excluding integral coupler)
Z = End extension of integral coupler

Weights

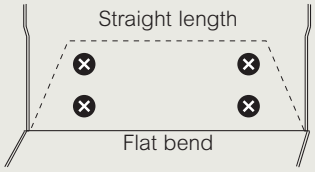
All weights given are in kilograms (kg) and are for hot dip galvanised G finish

To obtain the appropriate component weight in other finishes, multiply the given weight by the following factors :

Stainless steel (S) x 0·94
Pre-galvanised (PG) x 0·96

■ Assembly – flat bends 90°, 60°, 45° and 30°

Coupling detail

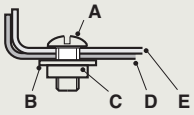


Note

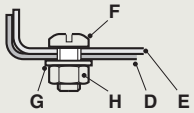
Quantity of bed fasteners
50 - 225 mm = 4, 300 mm = 6

Fasteners (not included)

For G and PG finish



For S finish



A	M6 x 12 roofing bolt
B	Roofing washer
C	M6 square nut
D	Straight length
E	Straight length
F	M6 x 12 panhead screw
G	M6 form A washer
H	M6 hexagon nut

Fastener finishes

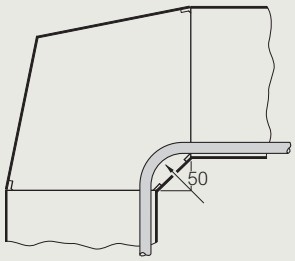
For flat bends with G and PG finishes, fasteners are galvanised or zinc plated. For flat bends with S finish, fasteners are stainless steel

Key : Replace the letter shown in red with your choice from the following options :

F = Finish : G (hot dip galvanised after manufacture), PG (pre-galvanised steel), S (stainless steel)

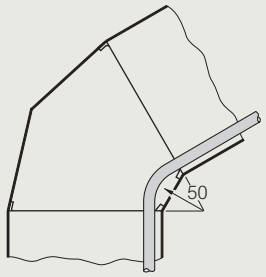
■ Assembly – flat bends 90°, 60°, 45° and 30° (continued)

Minimum bend radius for cables – flat bends 90°



Minimum cable radius = 50 mm

Minimum bend radius for cables – flat bends 60°, 45° and 30°



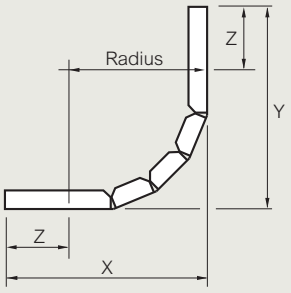
Minimum cable radius = 50 mm

All dimensions (mm) are nominal

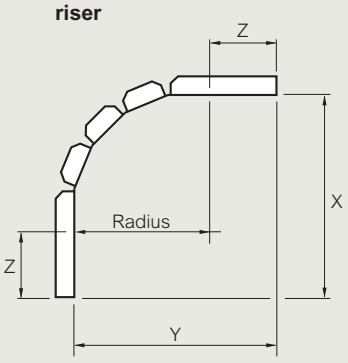
Swifts® SS light duty fittings
inside and outside risers – 90°, 60°, 45° and 30°

■ 90° inside and outside risers – dimensions and weights

90° inside riser



90° outside riser



Cat. Nos.	Width	X	Y	Z(1)	Weight (kg)
SSIR 50 F	50	130	130	55	0·2
SSIR 75 F	75	130	130	55	0·2
SSIR 100 F	100	130	130	55	0·3
SSIR 150 F	150	130	130	55	0·4
SSIR 225 F	225	205	205	55	1·0
SSIR 300 F	300	205	205	55	1·3

(1) End extension measurement applies to both ends of the fitting

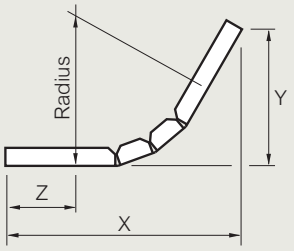
Cat. Nos. given in the table are for inside risers. For outside risers substitute SOR for SIR

Inside and outside risers are not available in PG finish

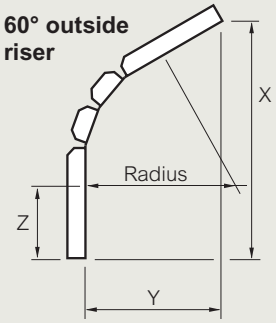
For risers in PG finish use adjustable risers for all angles up to 90°, see p. 42

■ 60° inside and outside risers – dimensions and weights

60° inside riser



60° outside riser



Cat. Nos.	Width	X	Y	Z(1)	Weight (kg)
SSIR 50 60 F	50	147	85	55	0·2
SSIR 75 60 F	75	147	85	55	0·2
SSIR 100 60 F	100	147	85	55	0·3
SSIR 150 60 F	150	147	85	55	0·4
SSIR 225 60 F	225	212	122	55	0·8
SSIR 300 60 F	300	212	122	55	1·0

(1) End extension measurement applies to both ends of the fitting

Cat. Nos. given in the table are for inside risers. For outside risers substitute SOR for SIR

Inside and outside risers are not available in PG finish

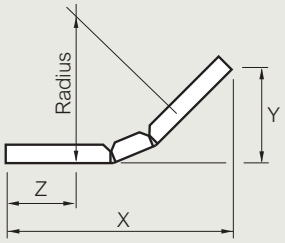
For risers in PG finish use adjustable risers for all angles up to 90°, see p. 42

Key : Replace the letter shown in red with your choice from the following options :

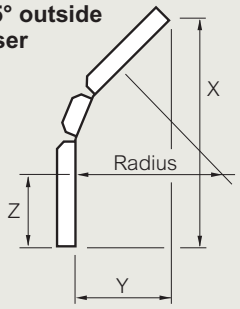
F = Finish : G (hot dip galvanised after manufacture), PG (pre-galvanised steel), S (stainless steel)

■ 45° inside and outside risers – dimensions and weights

45° inside riser



45° outside riser



Cat. Nos.	Width	X	Y	Z(1)	Weight (kg)
SSIR 50 30 F	50	147	61	55	0·1
SSIR 75 30 F	75	147	61	55	0·2
SSIR 100 30 F	100	147	61	55	0·2
SSIR 150 30 F	150	147	61	55	0·3
SSIR 225 30 F	225	200	83	55	0·6
SSIR 300 30 F	300	200	83	55	0·7

(1) End extension measurement applies to both ends of the fitting

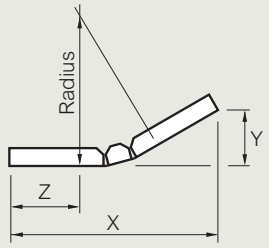
Cat. Nos. given in the table are for inside risers. For outside risers substitute SOR for SIR

Inside and outside risers are not available in PG finish

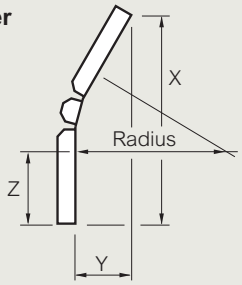
For risers in PG finish use adjustable risers for all angles up to 90°, see p. 42

■ 30° inside and outside risers – dimensions and weights

30° inside riser



30° outside riser



Cat. Nos.	Width	X	Y	Z(1)	Weight (kg)
SSIR 50 45 F	50	140	37	55	0·1
SSIR 75 45 F	75	140	37	55	0·2
SSIR 100 45 F	100	140	37	55	0·2
SSIR 150 45 F	150	140	37	55	0·3
SSIR 225 45 F	225	177	47	55	0·7
SSIR 300 45 F	300	177	47	55	0·7

(1) End extension measurement applies to both ends of the fitting

Cat. Nos. given in the table are for inside risers. For outside risers substitute SOR for SIR

Inside and outside risers are not available in PG finish

For risers in PG finish use adjustable risers for all angles up to 90°, see p. 42

All dimensions (mm) are nominal

Swifts® SS light duty fittings
inside and outside risers – 90°, 60°, 45° and 30°

12 or 18

■ Dimensions and weights – inside and outside risers 90°, 60°, 45° and 30°

Dimensions

X = Overall length of fitting from each end in the horizontal (including integral coupler)

Y = Overall length of fitting from each end in the vertical (including integral coupler)

Z = End extension of integral coupler

Weights

All weights given are in kilograms (kg) and are for hot dip galvanised G finish

To obtain the appropriate component weight in other finishes, multiply the given weight by the following factors :

Stainless steel	(S)	x 0·94
Pre-galvanised	(PG)	x 0·96

■ Assembly – inside and outside risers 90°, 60°, 45° and 30°

Coupling detail

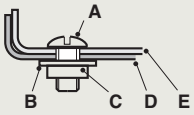


Note

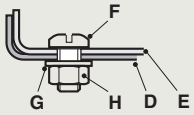
Quantity of bed fasteners
50 - 225 mm wide tray = 4
300 mm wide tray = 6

Fasteners (not included)

For G and PG finish



For S finish



A	M6 x 12 roofing bolt
B	Roofing washer
C	M6 square nut
D	Straight length
E	Straight length
F	M6 x 12 panhead screw
G	M6 form A washer
H	M6 hexagon nut

Fastener finishes

For risers with G finish, fasteners are galvanised or zinc plated
For risers with S finish, fasteners are stainless steel

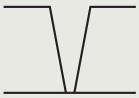
Flange detail

Notches in flange vary depending on type and size of riser

Inside / outside riser
Widths 50 to 225



Inside riser
Widths 300



Outside riser
Widths 300



All dimensions (mm) are nominal

Swifts® SS light duty fittings
adjustable risers

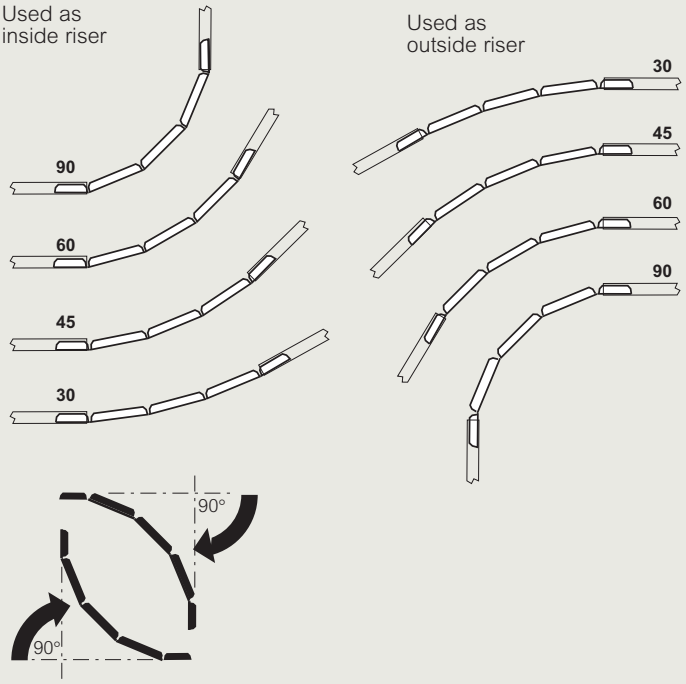
12 or 18

■ Dimensions and weights

Adjustable risers can be used as an inside or outside riser for any angle up to 90°
Minimum radius = 200 mm
Maximum radius = 300 mm
Overall length when flat = 554 mm

Dimensions

Cat. No. SSAR W F



Cat. Nos.	Width	Weight (kg)
SSAR 50 F	50	0·4
SSAR 75 F	75	0·6
SSAR 100 F	100	0·8
SSAR 150 F	150	1·0
SSAR 225 F	225	1·5
SSAR 300 F	300	2·0

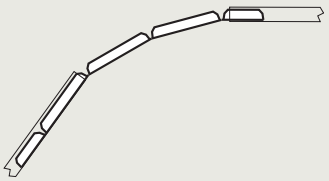
Weights

All weights given are in kilograms (kg) and are for hot dip galvanised G finish
To obtain the appropriate component weight in other finishes, multiply the given weight by the following factors :
Stainless steel (S) x 0·94
Pre-galvanised (PG) x 0·96

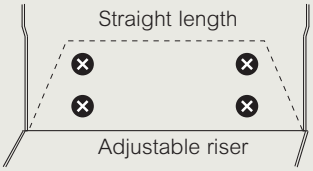
Key : Replace the letter shown in red with your choice from the following options :
F = Finish : G (hot dip galvanised after manufacture), PG (pre-galvanised steel), S (stainless steel)

■ Assembly

As many riser segments as necessary may be inserted into the end of the straight length, thus avoiding the need for cutting



Coupling detail

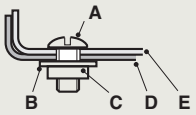


Note

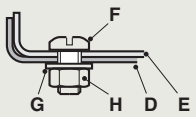
Quantity of bed fasteners
50 - 225 mm wide tray = 4
300 mm wide tray = 6

Fasteners (not included)

For G and PG finish



For S finish



A	M6 x 12 roofing bolt
B	Roofing washer
C	M6 square nut
D	Straight length
E	Straight length
F	M6 x 12 panhead screw
G	M6 form A washer
H	M6 hexagon nut

Fastener finishes

For adjustable risers with G and PG finishes, fasteners are galvanised or zinc plated
For adjustable risers with S finish, fasteners are stainless steel

All dimensions (mm) are nominal

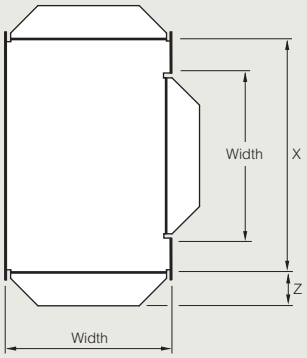
Swifts® SS light duty fittings
equal tees

12 or 18

■ Equal tees dimensions and weights

Dimensions

Cat. No. SST W F



X = Length of fitting from each end (excluding integral coupler)
Z = End extension of integral coupler

Cat. Nos.	Width	X	Z	Weight (kg)
SST 50 F	50	167	32	0·2
SST 75 F	75	192	32	0·2
SST 100 F	100	217	32	0·4
SST 150 F	150	267	32	0·6
SST 225 F	225	342	57	1·2
SST 300 F	300	417	57	1·9

Minimum cable radius = 50 mm

Weights

All weights given are in kilograms (kg) and are for hot dip galvanised G finish
To obtain the appropriate component weight in other finishes, multiply the given weight by the following factors :

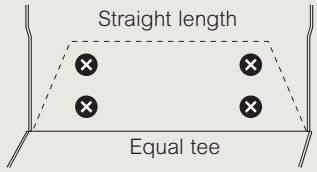
Stainless steel (S) x 0·94
Pre-galvanised (PG) x 0·96

Key : Replace the letter shown in red with your choice from the following options :

F = Finish : G (hot dip galvanised after manufacture), PG (pre-galvanised steel), S (stainless steel)

■ Assembly

Coupling detail

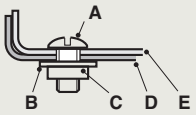


Note

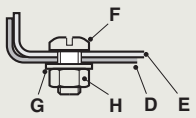
Quantity of bed fasteners
50 - 225 mm wide tray = 4
300 mm wide tray = 6

Fasteners (not included)

For G and PG finish



For S finish



A	M6 x 12 roofing bolt
B	Roofing washer
C	M6 square nut
D	Straight length
E	Straight length
F	M6 x 12 panhead screw
G	M6 form A washer
H	M6 hexagon nut

Fastener finishes

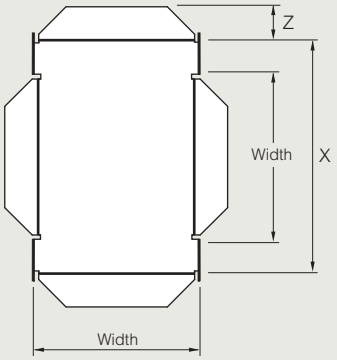
For equal tees with G and PG finishes, fasteners are galvanised or zinc plated
For equal tees with S finish, fasteners are stainless steel

All dimensions (mm) are nominal

■ 4 way crosspieces dimensions and weights

Dimensions

Cat. No. SSX W F



X = Length of fitting from each end (excluding integral coupler)
Z = End extension of integral coupler

Cat. Nos.	Width	X	Z	Weight (kg)
SSX 50 F	50	167	32	0·2
SSX 75 F	75	192	32	0·2
SSX 100 F	100	217	32	0·4
SSX 150 F	150	267	57	0·6
SSX 225 F	225	342	57	1·3
SSX 300 F	300	417	57	2·0

Minimum cable radius = 50 mm

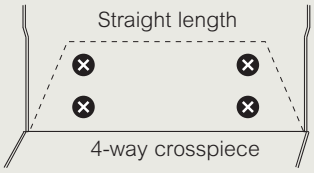
Weights

All weights given are in kilograms (kg) and are for hot dip galvanised G finish
To obtain the appropriate component weight in other finishes, multiply the given weight by the following factors :
Stainless steel (S) x 0·94
Pre-galvanised (PG) x 0·96

Key : Replace the letter shown in red with your choice from the following options :
F = Finish : G (hot dip galvanised after manufacture), PG (pre-galvanised steel), S (stainless steel)

■ Assembly

Coupling detail

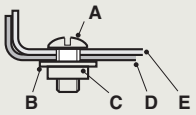


Note

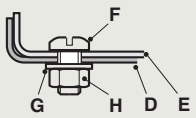
Quantity of bed fasteners
50 - 225 mm wide tray = 4
300 mm wide tray = 6

Fasteners (not included)

For G and PG finish



For S finish



A	M6 x 12 roofing bolt
B	Roofing washer
C	M6 square nut
D	Straight length
E	Straight length
F	M6 x 12 panhead screw
G	M6 form A washer
H	M6 hexagon nut

Fastener finishes

For crosspieces with G and PG finishes, fasteners are galvanised or zinc plated
For crosspieces with S finish, fasteners are stainless steel

All dimensions (mm) are nominal

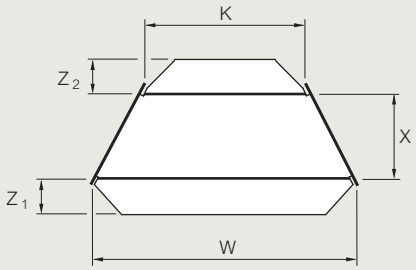
Swifts® SS light duty fittings
straight reducers

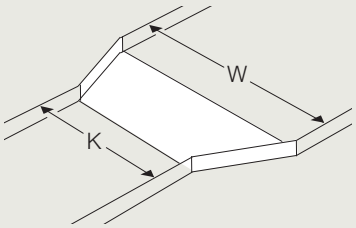
12 or 18

■ Dimensions and weights

Dimensions

Cat. No. SSR W K F





W = Main fitting width
K = Reduced width
X = Length of fitting from each end (excluding integral coupler)
Z_1 = End extension of integral coupler
Z_2 = End extension of integral coupler

Width (W)	Width (K)	Cat. Nos.	Dimensions (mm) X	Z_1	Z_2	Weight (kg)
75	50	**SSR 75 50 F**	75	32	32	0·1
100	50	**SSR 100 50 F**	150	32	32	0·2
	75	**SSR 100 75 F**	75	32	32	0·1
150	50	**SSR 150 50 F**	150	32	32	0·3
	75	**SSR 150 75 F**	150	32	32	0·3
	100	**SSR 150 100 F**	75	32	32	0·2
225	50	**SSR 225 50 F**	300	57	32	0·4
	75	**SSR 225 75 F**	150	57	32	0·4
	100	**SSR 225 100 F**	150	57	32	0·5
	150	**SSR 225 150 F**	75	57	32	0·3
300	50	**SSR 300 50 F**	300	57	32	0·9
	75	**SSR 300 75 F**	300	57	32	1·0
	100	**SSR 300 100 F**	150	57	32	0·6
	150	**SSR 300 150 F**	150	57	32	0·7
	225	**SSR 300 225 F**	75	57	57	0·5

To create the Cat. No., add the main run width (W), to the reduced run width (K) and the finish (F)
Example :
For a hot dip galvanised reducer reducing from 300 mm to 150 mm :
SSR 300 150 G

Weights

All weights given are in kilograms (kg) and are for hot dip galvanised G finish

To obtain the appropriate component weight in other finishes, multiply the given weight by the following factors :

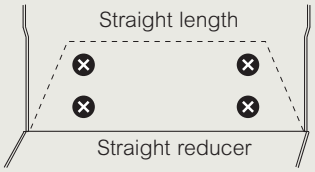
Stainless steel (S) x 0·94
Pre-galvanised (PG) x 0·96

Key : Replace the letter shown in red with your choice from the following options :

F = Finish : G (hot dip galvanised after manufacture), PG (pre-galvanised steel), S (stainless steel)

■ Assembly

Coupling detail

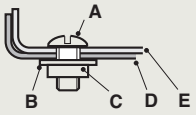


Note

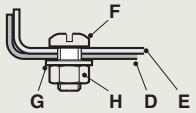
Quantity of bed fasteners
50 - 225 mm wide tray = 4
300 mm wide tray = 6

Fasteners (not included)

For G and PG finish



For S finish



A	M6 x 12 roofing bolt
B	Roofing washer
C	M6 square nut
D	Straight length
E	Straight length
F	M6 x 12 panhead screw
G	M6 form A washer
H	M6 hexagon nut

Fastener finishes

For reducers with G and PG finishes, fasteners are galvanised or zinc plated
For reducers with S finish, fasteners are stainless steel

All dimensions (mm) are nominal