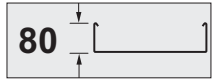
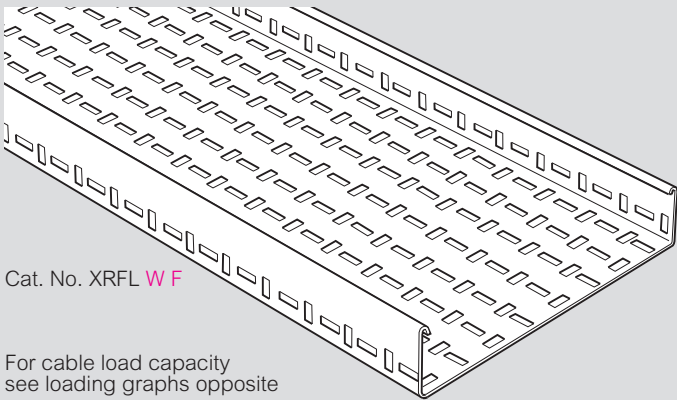


# Swifts® XRF extra heavy duty return flange

straight lengths



## ■ Dimensions and weights

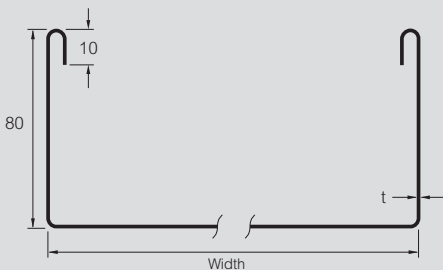
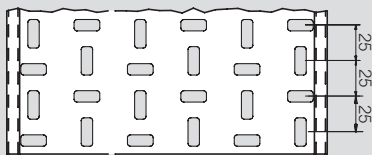


Cat. No. XRFL **W F**

For cable load capacity see loading graphs opposite

## ■ Dimensions

Standard length 3 m



## ■ Gauges and weights

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

Non-standard gauges and finishes are available to special order, contact us on +44 (0) 345 605 4333

Cat. Nos.	Width (mm)	Weight (kg)	Gauge t (mm) G finish only
XRFL 100 <b>F</b>	100	9.0	1.2
XRFL 150 <b>F</b>	150	10.2	1.2
XRFL 225 <b>F</b>	225	13.0	1.2
XRFL 300 <b>F</b>	300	15.3	1.5
XRFL 450 <b>F</b>	450	26.4	1.5
XRFL 600 <b>F</b>	600	32.5	2.0

All weights given are in kilograms (kg) and are for a 3 m 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 :

Deep galvanised (D) x 1.06  
Stainless steel (S) x 0.94

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

**F** = Finish : **G** (hot dip galvanised after manufacture),  
**D** (deep galvanised), **S** (stainless steel)

## ■ Loading graphs

Load tests carried out to BS EN 61537 and shown in kg/m

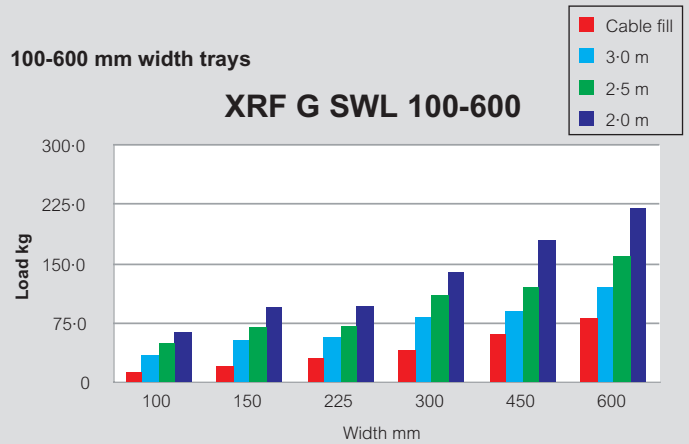
Cable fill figure is the maximum physical load of cables that can be fitted into tray and is based on 1700kg/m<sup>2</sup> as detailed in the BEAMA "Best Practice guide to cable ladder and cable tray systems"

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 graph shows the maximum load for tray installed at a support spacing within its recommended range

### 100-600 mm width trays

#### XRF G SWL 100-600



On XRF lengths the graph shows the maximum safe working load when a fishplate is fitted across the underside of each length-to-length joint. Typical cable loads which are normally 50% of the maximum would not require a fishplate

## ■ Finishes and standards

### Standard stocked finish :

**G** Hot dip galvanised after manufacture to BS EN ISO 1461

### Additional finishes :

**D** Deep galvanised high silicon steel made from BS EN 10025-5 : 2004 Grade S355JOWP

**S** Stainless steel to BS EN 10088 - 2 grade 1.4404 (equivalent to 316L31)



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

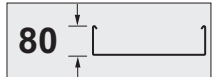
All dimensions (mm) are nominal

→ Coupler sets : see p. 85

→ Fishplates : see p. 105

# Swifts® cable tray couplers and fasteners

## XRF straight length to straight length couplers and straight length to fitting coupling

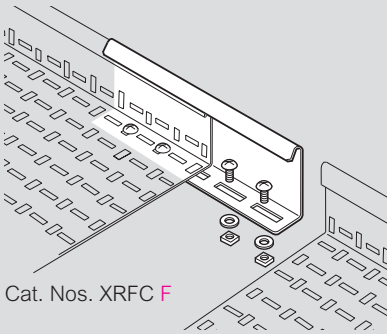


### Standard couplers

Couplers are required for joining together XRF straight lengths or cut lengths of tray  
XRFC standard couplers are supplied in pairs  
Supplied without fasteners – use M6 nuts, bolts and washers (see opposite)

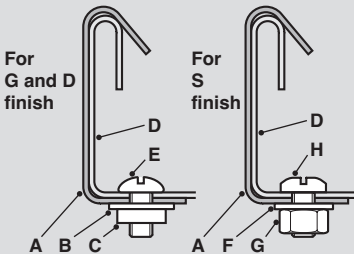
### Assembly

Bring together two lengths and fit a coupler on the outside of adjacent flanges at both sides of the tray joint  
Locate the coupler as shown and insert two roofing bolts through aligning slots in each tray bed and coupler (four bolts per coupler), and secure with roofing washers and nuts



Cat. Nos. XRFC F

### Fasteners



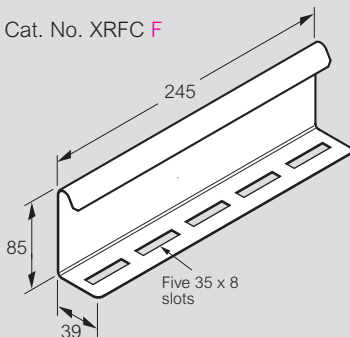
- A Coupler
- B Roofing washer
- C M6 square nut
- D Straight length
- E M6 x 12 roofing bolt
- F M6 form A washer
- G M6 hexagon nut
- H M6 x 12 pan head screw

### Fastener finishes

For lengths and fittings with G and D finishes fasteners are galvanised or zinc plated. For trays and fittings with S finish, fasteners are corrosion resistant stainless Grade A470

### Dimensions and weights

Cat. No. XRFC F



Cat. Nos.	Weight (kg)
XRFC F	0.9 pair

### 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 :  
Deep galvanised (D) x 1.06  
Stainless steel (S) x 0.94

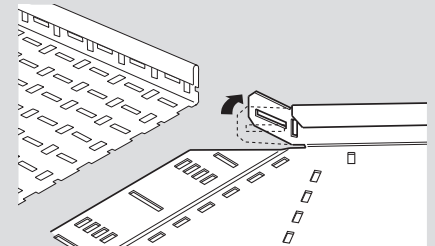
Key : Replace the letter shown in red with your choice from the following options :

**F** = Finish : **G** (hot dip galvanised after manufacture), **D** (deep galvanised), **S** (stainless steel)

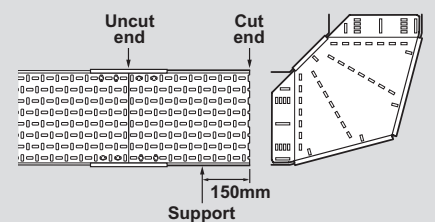
### Straight length to fitting coupling

Cable tray fittings must be properly supported. The ideal location for supports is shown in step 2, i.e. 150 mm from the fitting to length joint. For further details see Design Notes, Recommended Support Locations, p. 132

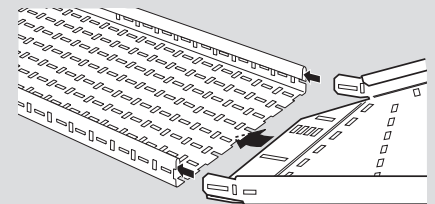
**1** Where necessary re-align the fitting flange tabs from their transit position to their installation position



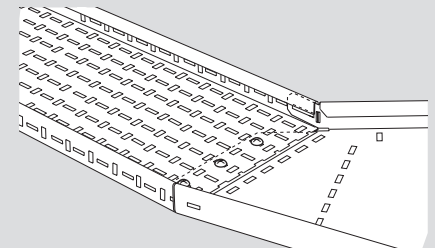
**2** When a straight length of cable tray has to be cut back to accept a fitting, always fit the uncut end to the adjacent straight length; the cut end should be connected to the fitting



**3** Offer the fitting at an angle to the straight length and locate, ensuring that the joggled fishplate fits under the tray bed and the flange tabs slide inside the length flanges



**4** Insert roofing bolts through slots in the tray bed in to aligning slots in the fitting fishplate and secure with roofing washers and nuts



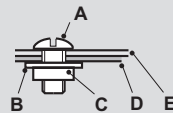
### Note

Fasteners stated are for D and G finishes  
For lengths and fittings with S finish use fasteners listed below

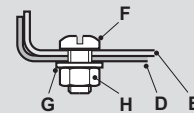
### Fasteners

Minimum number of fasteners per joint (not included) :  
Widths up to 225 = 2  
Widths 300 to 600 = 3  
Widths 750 and 900 = 4

### For G and D finish



### For S finish



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

### Fastener finish

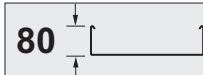
For lengths and fittings with G and D finishes, fasteners are galvanised or zinc plated. For trays and fittings with S finish, fasteners are corrosion resistant stainless Grade A470

All dimensions (mm) are nominal

➔ Straight lengths : see p. 84

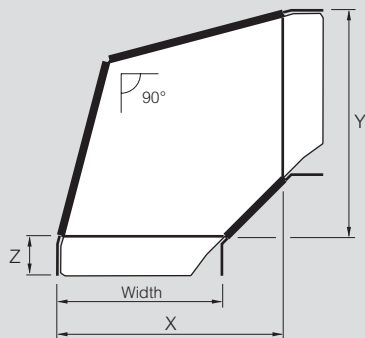
# Swifts® XRF extra heavy duty fittings

flat bends – 90°, 60°, 45° and 30°



## ■ 90° dimensions and weights

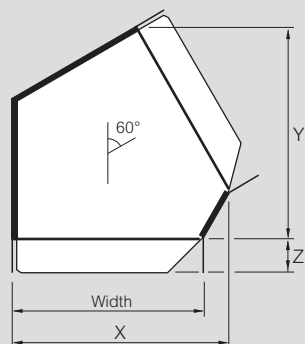
Cat. No. XRFB **W F**



Cat. Nos.	Width	X	Y	Z	Weight (kg)
<b>XRFB 100 F</b>	100	280	280	55	1.6
<b>XRFB 150 F</b>	150	330	330	55	2.0
<b>XRFB 225 F</b>	225	405	405	55	2.8
<b>XRFB 300 F</b>	300	480	480	55	3.6
<b>XRFB 450 F</b>	450	690	690	55	8.7
<b>XRFB 600 F</b>	600	840	840	55	12.2

## ■ 60° dimensions and weights

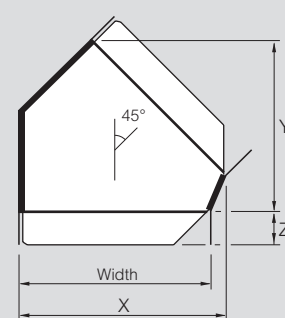
Cat. No. XRFB **W 60 F**



Cat. Nos.	Width	X	Y	Z	Weight (kg)
<b>XRFB 100 60 F</b>	100	190	242	55	1.2
<b>XRFB 150 60 F</b>	150	240	286	55	1.6
<b>XRFB 225 60 F</b>	225	315	351	55	2.1
<b>XRFB 300 60 F</b>	300	390	416	55	2.8
<b>XRFB 450 60 F</b>	450	570	598	55	6.5
<b>XRFB 600 60 F</b>	600	720	727	55	9.2

## ■ 45° dimensions and weights

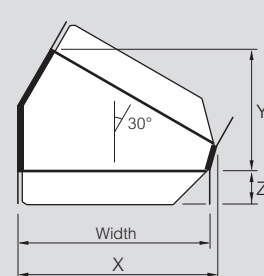
Cat. No. XRFB **W 45 F**



Cat. Nos.	Width	X	Y	Z	Weight (kg)
<b>XRFB 100 45 F</b>	100	153	198	55	1.0
<b>XRFB 150 45 F</b>	150	203	233	55	1.2
<b>XRFB 225 45 F</b>	225	278	286	55	1.6
<b>XRFB 300 45 F</b>	300	353	339	55	2.1
<b>XRFB 450 45 F</b>	450	520	488	55	5.0
<b>XRFB 600 45 F</b>	600	670	594	55	6.9

## ■ 30° dimensions and weights

Cat. No. XRFB **W 30 F**



Cat. Nos.	Width	X	Y	Z	Weight (kg)
<b>XRFB 100 30 F</b>	100	124	140	55	0.8
<b>XRFB 150 30 F</b>	150	174	165	55	0.9
<b>XRFB 225 30 F</b>	225	249	202	55	1.2
<b>XRFB 300 30 F</b>	300	324	240	55	1.6
<b>XRFB 450 30 F</b>	450	482	345	55	3.5
<b>XRFB 600 30 F</b>	600	632	420	55	5.0

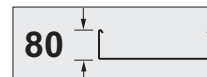
Key : Replace the letter shown in red with your choice from the following options :

**F** = Finish : **G** (hot dip galvanised after manufacture),  
**D** (deep galvanised), **S** (stainless steel)

All dimensions (mm) are nominal

# Swifts® XRF extra heavy duty fittings

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



## ■ 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

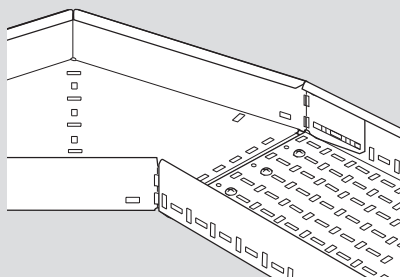
To obtain the appropriate component weight in other finishes, multiply the given weight by the following factors :

Deep galvanised (D) x 1.06

Stainless steel (S) x 0.94

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

### Coupling detail



### Flat bend to straight length coupling

Flat bends have integral couplers which fit into straight lengths whether they have been cut to length or not, without the need for further drilling

Each flat bend to length joint is secured with M6 x 12 bolts (roofing or pan head), nuts and washers, **p. 85**. Fasteners are not included

Minimum number of fasteners per joint :

Widths up to 225 = 2

Widths 300 to 600 = 3

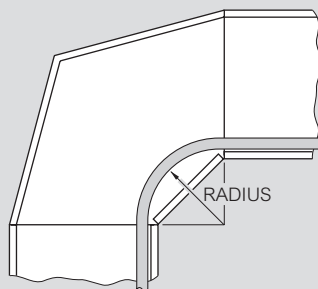
### Fastener finishes

For bends with G and D finishes, fasteners are galvanised or zinc plated

For bends with S finish, fasteners are stainless steel

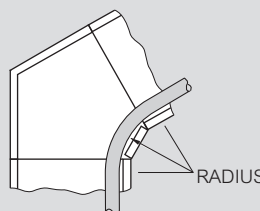
## ■ Assembly – flat bends 90°, 60°, 45° and 30° (continued)

### Minimum bend radius for cables – flat bends 90°



Width (mm)	Radius (mm)
100 to 300	180
450 and 600	240

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



Width (mm)	Radius (mm)
100 to 300	180
450 and 600	240

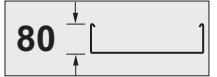
Key : Replace the letter shown in red with your choice from the following options :

**F** = Finish : **G** (hot dip galvanised after manufacture),  
**D** (deep galvanised), **S** (stainless steel)

All dimensions (mm) are nominal

# Swifts® XRF extra heavy duty fittings

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

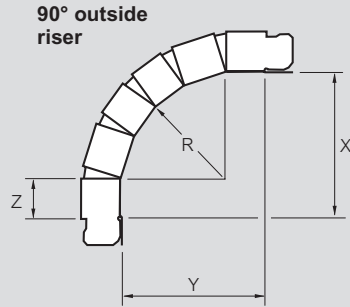
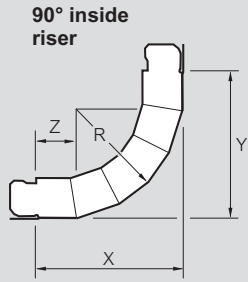


## 90° dimensions and weights

### Dimensions

Cat. No. XRFIR **W F**

Cat. No. XRFOR **W F**



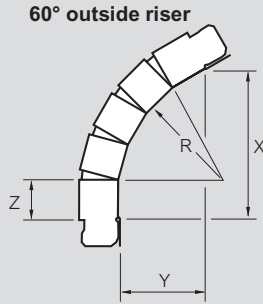
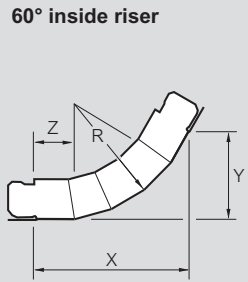
Cat. Nos.	Width	X	Y	Z	Weight (kg)
<b>XRFIR 100 F</b>	100	241	241	55	2.2
<b>XRFOR 100 F</b>	100	240	240	55	2.6
<b>XRFIR 150 F</b>	150	241	241	55	2.5
<b>XRFOR 150 F</b>	150	240	240	55	2.9
<b>XRFIR 225 F</b>	225	241	241	55	2.9
<b>XRFOR 225 F</b>	225	240	240	55	3.3
<b>XRFIR 300 F</b>	300	241	241	55	3.3
<b>XRFOR 300 F</b>	300	240	240	55	3.8
<b>XRFIR 450 F</b>	450	295	295	55	6.2
<b>XRFOR 450 F</b>	450	293	293	55	6.6
<b>XRFIR 600 F</b>	600	295	295	55	7.6
<b>XRFOR 600 F</b>	600	293	293	55	8.1

## 60° dimensions and weights

### Dimensions

Cat. No. XRFIR **W 60 F**

Cat. No. XRFOR **W 60 F**



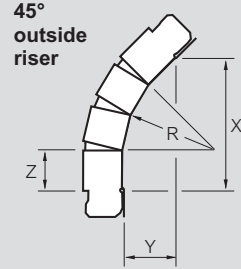
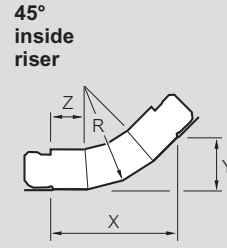
Cat. Nos.	Width	X	Y	Z	Weight (kg)
<b>XRFIR 100 60 F</b>	100	172	99	55	2.0
<b>XRFOR 100 60 F</b>	100	230	133	55	1.4
<b>XRFIR 150 60 F</b>	150	172	99	55	2.1
<b>XRFOR 150 60 F</b>	150	230	133	55	2.5
<b>XRFIR 225 60 F</b>	225	172	99	55	2.4
<b>XRFOR 225 60 F</b>	225	230	133	55	2.8
<b>XRFIR 300 60 F</b>	300	172	99	55	2.8
<b>XRFOR 300 60 F</b>	300	230	133	55	3.1
<b>XRFIR 450 60 F</b>	450	212	122	55	4.9
<b>XRFOR 450 60 F</b>	450	270	161	55	5.3
<b>XRFIR 600 60 F</b>	600	212	122	55	6.0
<b>XRFOR 600 60 F</b>	600	270	161	55	6.4

## 45° dimensions and weights

### Dimensions

Cat. No. XRFIR **W 45 F**

Cat. No. XRFOR **W 45 F**



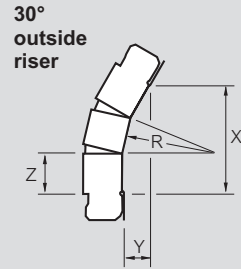
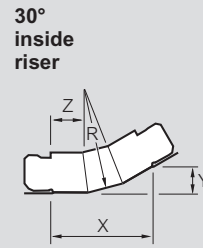
Cat. Nos.	Width	X	Y	Z	Weight (kg)
<b>XRFIR 100 45 F</b>	100	234	97	55	1.2
<b>XRFOR 100 45 F</b>	100	233	96	55	1.3
<b>XRFIR 150 45 F</b>	150	234	97	55	1.7
<b>XRFOR 150 45 F</b>	150	233	96	55	1.7
<b>XRFIR 225 45 F</b>	225	234	97	55	2.0
<b>XRFOR 225 45 F</b>	225	233	96	55	2.2
<b>XRFIR 300 45 F</b>	300	234	97	55	2.3
<b>XRFOR 300 45 F</b>	300	233	96	55	2.4
<b>XRFIR 450 45 F</b>	450	266	110	55	4.1
<b>XRFOR 450 45 F</b>	450	265	110	55	4.3
<b>XRFIR 600 45 F</b>	600	266	110	55	5.1
<b>XRFOR 600 45 F</b>	600	265	110	55	5.3

## 30° dimensions and weights

### Dimensions

Cat. No. XRFIR **W 30 F**

Cat. No. XRFOR **W 30 F**



Cat. Nos.	Width	X	Y	Z	Weight (kg)
<b>XRFIR 100 30 F</b>	100	201	54	55	1.1
<b>XRFOR 100 30 F</b>	100	200	54	55	1.1
<b>XRFIR 150 30 F</b>	150	201	54	55	1.3
<b>XRFOR 150 30 F</b>	150	200	54	55	1.5
<b>XRFIR 225 30 F</b>	225	201	54	55	1.9
<b>XRFOR 225 30 F</b>	225	200	54	55	1.7
<b>XRFIR 300 30 F</b>	300	201	54	55	1.9
<b>XRFOR 300 30 F</b>	300	200	54	55	2.0
<b>XRFIR 450 30 F</b>	450	217	58	55	3.4
<b>XRFOR 450 30 F</b>	450	217	58	55	3.5
<b>XRFIR 600 30 F</b>	600	217	58	55	4.1
<b>XRFOR 600 30 F</b>	600	217	58	55	4.2

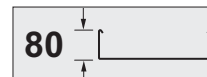
Key : Replace the letter shown in red with your choice from the following options :

**F** = Finish : **G** (hot dip galvanised after manufacture),  
**D** (deep galvanised), **S** (stainless steel)

All dimensions (mm) are nominal

# Swifts® XRF extra heavy duty fittings

inside and outside risers – 90°, 60°, 45° and 30° (continued)



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

### Dimensions

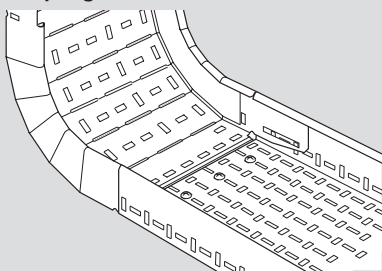
X = Length of fitting from each end (excluding integral coupler)  
 Y = Length of fitting from each end (excluding integral coupler)  
 Z = End extension of integral coupler

### 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  
 Deep galvanised (D) x 1.06

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

### Coupling detail



### Riser to straight length coupling

Risers have integral couplers which fit into straight lengths whether they have been cut to length or not, without the need for further drilling  
 Each riser to length joint is secured with M6 x 12 bolts (roofing or pan head), nuts and washers, **p. 85**. Fasteners are not included  
 Minimum number of fasteners per joint :

Widths up to 225 = 2  
 Widths 300 to 600 = 3

### Fastener finishes

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

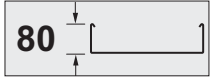
## Minimum bend radius for cables – 90°, 60°, 45° and 30°

Width (W) (mm)	Radius (R) (mm)
100	180
150	180
225	180
300	180
450	240
600	240

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

**F** = Finish : **G** (hot dip galvanised after manufacture),  
**D** (deep galvanised), **S** (stainless steel)

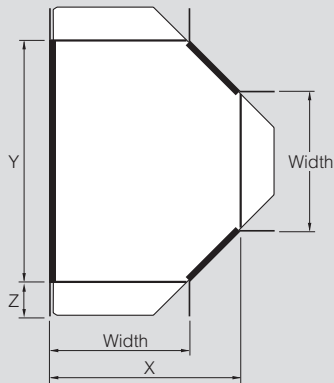
All dimensions (mm) are nominal



### ■ Dimensions and weights

#### Dimensions

Cat. No. XRFT **W F**



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

Y = Length of fitting from each end (including integral coupler)

Z = End extension of integral coupler

Cat. Nos.	Width	X	Y	Z	Weight (kg)
<b>XRFT 100 F</b>	100	280	460	55	2.7
<b>XRFT 150 F</b>	150	330	510	55	3.4
<b>XRFT 225 F</b>	225	405	585	55	4.4
<b>XRFT 300 F</b>	300	480	660	55	5.7
<b>XRFT 450 F</b>	450	690	930	55	13.3
<b>XRFT 600 F</b>	600	840	1080	55	18.2

#### Weights

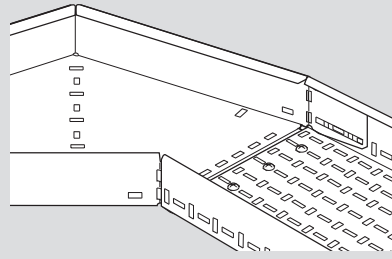
All weights given are in kilograms (kg) and are for hot dip galvanised G finish

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

Deep galvanised (D) x 1.06  
Stainless steel (S) x 0.94

### ■ Assembly

#### Coupling detail



#### Equal tee to straight length coupling

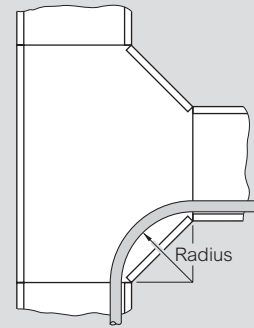
Equal tees have integral couplers which fit into straight lengths whether they have been cut to length or not, without the need for further drilling. Each equal tee to length joint is secured with M6 x 12 bolts (roofing or pan head), nuts and washers, **p. 85**. Fasteners are not included. Minimum number of fasteners per joint :

Widths up to 225 = 2  
Widths 300 to 600 = 3

#### Fastener finishes

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

#### Minimum bend radius for cables



Width (mm)	Radius (mm)
<b>100 to 300</b>	180
<b>450 and 600</b>	240

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

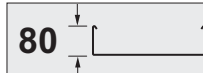
**F** = Finish : **G** (hot dip galvanised after manufacture),  
**D** (deep galvanised), **S** (stainless steel)

All dimensions (mm) are nominal

➔ XRF unequal tees : see p. 91

# Swifts® XRF extra heavy duty fittings

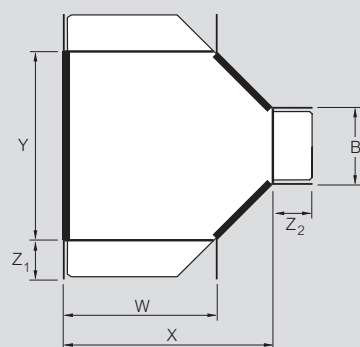
## unequal tees



### ■ Dimensions and weights

#### Dimensions

Cat. No. XRFUT **W B F**



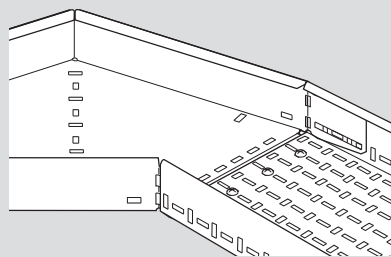
X = Length of fitting from each end (excluding integral coupler)

Y = Length of fitting from each end (excluding integral coupler)

Z = End extension of integral coupler

### ■ Assembly

#### Coupling detail



#### Unequal tee to straight length coupling

Unequal tees have integral couplers which fit into straight lengths whether they have been cut to length or not, without the need for further drilling

Each unequal tee to length joint is secured with M6 x 12 bolts (roofing or pan head), nuts and washers, **p. 85**. Fasteners are not included

Minimum number of fasteners per joint :

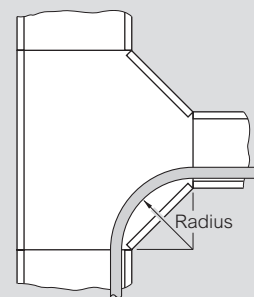
Widths up to 225 = 2

Widths 300 to 600 = 3

#### Fastener finishes

For unequal tees with G and D finishes, fasteners are galvanised or zinc plated. For unequal tees with S finish, fasteners are stainless steel

#### Minimum bend radius for cables



Width (mm)	Radius (mm)
100 to 300	180
450 and 600	240

Width (W)	Width (B)	Cat. Nos.	Dimensions (mm)			Weight (kg)
			X	Y	Z	
100	150	<b>XRFUT 100 150 F</b>	280	510	55	2.9
	225	<b>XRFUT 100 225 F</b>	280	585	55	3.2
	300	<b>XRFUT 100 300 F</b>	280	660	55	3.6
	450	<b>XRFUT 100 450 F</b>	280	810	55	4.4
	600	<b>XRFUT 100 600 F</b>	280	960	55	5.2
150	100	<b>XRFUT 150 100 F</b>	330	460	55	2.9
	225	<b>XRFUT 150 225 F</b>	330	585	55	3.6
	300	<b>XRFUT 150 300 F</b>	330	660	55	4.1
	450	<b>XRFUT 150 450 F</b>	330	810	55	6.6
	600	<b>XRFUT 150 600 F</b>	330	960	55	7.8
225	100	<b>XRFUT 225 100 F</b>	405	460	55	3.9
	150	<b>XRFUT 225 150 F</b>	405	510	55	3.8
	300	<b>XRFUT 225 300 F</b>	405	660	55	4.7
	450	<b>XRFUT 225 450 F</b>	405	810	55	7.8
	600	<b>XRFUT 225 600 F</b>	405	960	55	9.1
300	100	<b>XRFUT 300 100 F</b>	480	460	55	4.1
	150	<b>XRFUT 300 150 F</b>	480	510	55	4.5
	225	<b>XRFUT 300 225 F</b>	480	585	55	5.0
	450	<b>XRFUT 300 450 F</b>	480	810	55	8.9
	600	<b>XRFUT 300 600 F</b>	480	960	55	10.3
450	100	<b>XRFUT 450 100 F</b>	690	580	55	8.3
	150	<b>XRFUT 450 150 F</b>	690	630	55	9.2
	225	<b>XRFUT 450 225 F</b>	690	705	55	10.2
	300	<b>XRFUT 450 300 F</b>	690	780	55	11.2
	600	<b>XRFUT 450 600 F</b>	690	1080	55	15.3
600	100	<b>XRFUT 600 100 F</b>	840	580	55	10.2
	150	<b>XRFUT 600 150 F</b>	840	630	55	11.0
	225	<b>XRFUT 600 225 F</b>	840	705	55	12.2
	300	<b>XRFUT 600 300 F</b>	840	780	55	13.4
	450	<b>XRFUT 600 450 F</b>	840	930	55	15.8

#### 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 :

Deep galvanised (D) x 1.06

Stainless steel (S) x 0.94

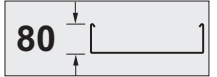
Key : Replace the letter shown in red with your choice from the following options :

**F** = Finish : **G** (hot dip galvanised after manufacture),  
**D** (deep galvanised), **S** (stainless steel)

All dimensions (mm) are nominal

➔ XRF equal tees : see p. 90

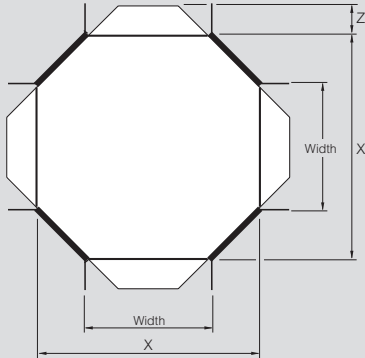




### ■ Dimensions and weights

#### Dimensions

Cat. No. XRFX **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)
<b>XRFX 100 F</b>	100	460	55	2.7
<b>XRFX 150 F</b>	150	510	55	4.3
<b>XRFX 225 F</b>	225	585	55	5.5
<b>XRFX 300 F</b>	300	660	55	6.8
<b>XRFX 450 F</b>	450	930	55	16.1
<b>XRFX 600 F</b>	600	1080	55	22.1

#### Weights

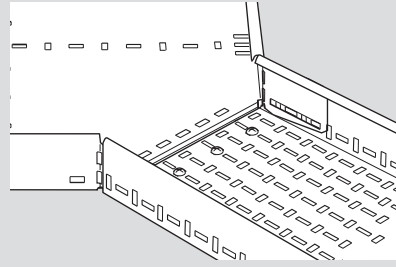
All weights given are in kilograms (kg) and are for hot dip galvanised G finish

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

Deep galvanised (D) x 1.06  
Stainless steel (S) x 0.94

### ■ Assembly

#### Coupling detail



#### 4 way crosspiece to straight length coupling

4 way crosspieces have integral couplers which fit into straight lengths whether they have been cut to length or not, without the need for further drilling

Each 4 way crosspiece to length joint is secured with M6 x 12 bolts (roofing or pan head), nuts and washers, **p. 85**. Fasteners are not included

Minimum number of fasteners per joint :

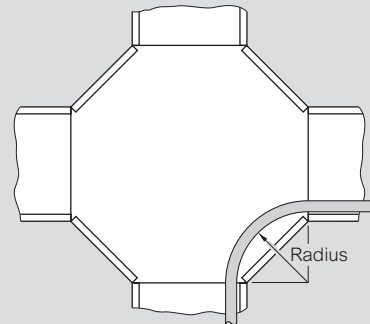
Widths up to 225 = 2

Widths 300 to 600 = 3

#### Fastener finishes

For 4 way crosspieces with G and D finishes, fasteners are galvanised or zinc plated. For 4 way crosspieces with S finish, fasteners are stainless steel

#### Minimum bend radius for cables



Width (mm)	Radius (mm)
<b>100 to 300</b>	180
<b>450 and 600</b>	240

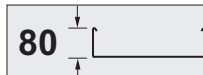
Key : Replace the letter shown in red with your choice from the following options :

**F** = Finish : **G** (hot dip galvanised after manufacture),  
**D** (deep galvanised), **S** (stainless steel)

All dimensions (mm) are nominal

# Swifts® XRF extra heavy duty fittings

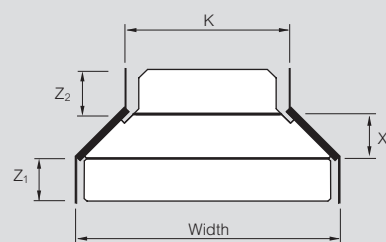
## straight reducers



### ■ Dimensions and weights

#### Dimensions

Cat. No. XRFR **W K F**



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

Z<sub>1</sub> = End extension of integral coupler

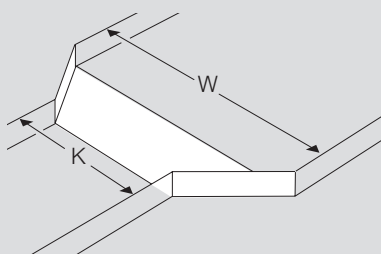
Z<sub>2</sub> = End extension of integral coupler

Width	Width (K)	Cat. Nos.	Dimensions (mm)			Weight (kg)
			X	Z <sub>1</sub>	Z <sub>2</sub>	
150	100	<b>XRFR 150 100 F</b>	100	55	55	0.8
	225	<b>XRFR 225 100 F</b>	100	55	55	0.8
225	150	<b>XRFR 225 150 F</b>	100	55	55	0.9
	300	<b>XRFR 300 100 F</b>	150	55	55	1.2
	150	<b>XRFR 300 150 F</b>	100	55	55	1.0
300	225	<b>XRFR 300 225 F</b>	100	55	55	1.1
	450	<b>XRFR 450 100 F</b>	250	55	55	2.0
	150	<b>XRFR 450 150 F</b>	150	55	55	1.5
	225	<b>XRFR 450 225 F</b>	150	55	55	1.6
450	300	<b>XRFR 450 300 F</b>	100	55	55	1.5
	600	<b>XRFR 600 100 F</b>	300	55	55	2.7
	150	<b>XRFR 600 150 F</b>	250	55	55	2.5
600	225	<b>XRFR 600 225 F</b>	200	55	55	2.2
	300	<b>XRFR 600 300 F</b>	150	55	55	2.1
	450	<b>XRFR 600 450 F</b>	100	55	55	2.3

To create the Cat. No., add the main run width (W), the reduced run width (K) and the finish (F)

Example :

For a hot dip galvanised reducer reducing from 300 mm to 150 mm : XRFR 300 150 G



#### Weights

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

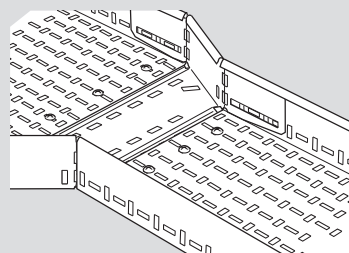
To obtain the appropriate component weight in other finishes, multiply the given weight by the following factors :

Deep galvanised (D) x 1.06

Stainless steel (S) x 0.94

### ■ Assembly

#### Coupling detail



#### Reducers to straight length coupling

Reducers have integral couplers which fit into straight lengths whether they have been cut to length or not, without the need for further drilling

Each reducer to length joint is secured with M6 x 12 bolts (roofing or pan head), nuts and washers, **p. 85**. Fasteners are not included

Minimum number of fasteners per joint :

Widths up to 225 = 2

Widths 300 to 600 = 3

#### Fastener finishes

For straight reducers with G and D finishes, fasteners are galvanised or zinc plated. For straight reducers 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),  
**D** (deep galvanised), **S** (stainless steel)

All dimensions (mm) are nominal