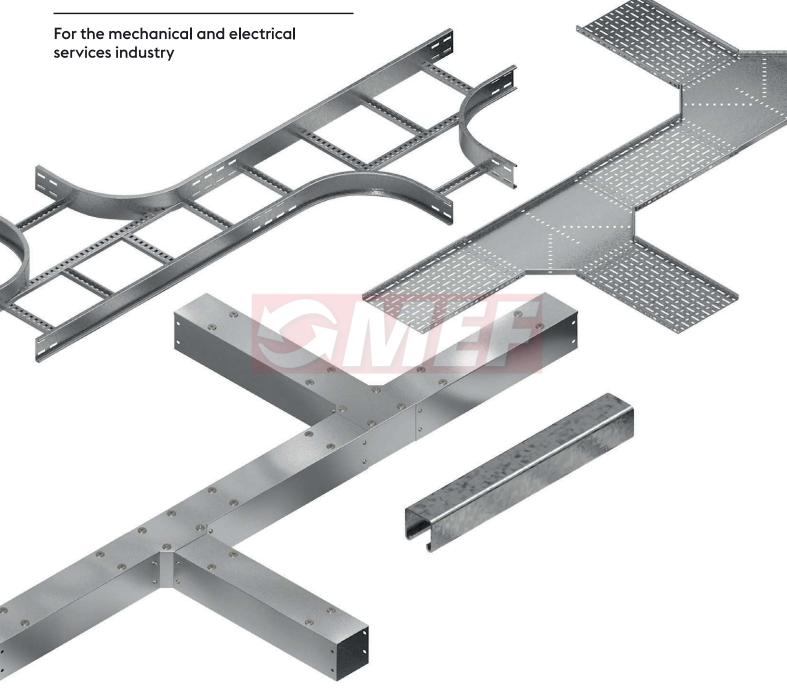
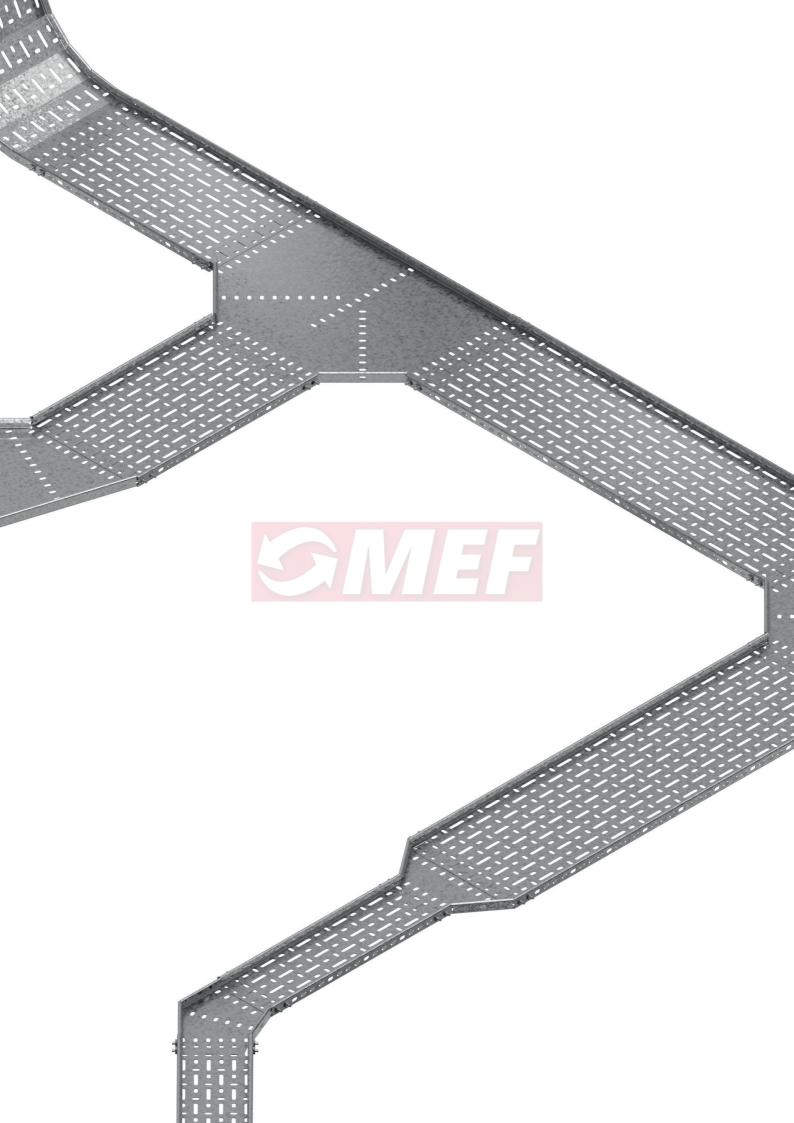


CABLE MANAGEMENT





# CABLE TRAY SYSTEMS

# CABLE TRAY SYSTEMS

Metsec cable tray systems have been developed after significant consultation with major installers. This ensures the systems meet and surpass key requirements providing innovative and cost effective solutions in an increasingly demanding market.

The comprehensive Metsec cable tray range consists of three systems ranging from the light duty non-return flange cable tray to two systems with cable-friendly return flange trays, medium duty 25mm deep and heavy duty 50mm deep.

The unique perforation pattern allows ease of attachment of cables with more than adequate ventilation. The side walls of the medium and heavy duty ranges are also slotted as standard.

Light duty cable trays are available in widths of 50, 75, 100, 150, 225 and 300mm. Medium duty trays are available in widths of 50, 75, 100,150, 225, 300, 450 and 600mm. Heavy duty trays are available in widths of 75, 100, 150, 225, 300, 450, 600, 750 and 900mm wide.

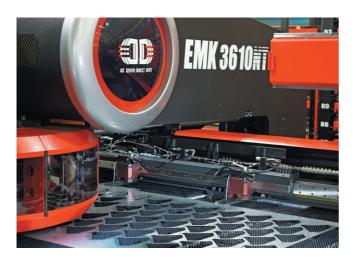
Each type of tray is a total system with a wide selection of support accessories to provide comprehensive site installation solutions.

Metsec cable trays are manufactured on sophisticated CNC equipment in a world class manufacturing cell engaging a high level of automation for fast moving items. This allows Metsec to maintain a very high level of on time in full delivery performance.

Comprehensive stocks of cable trays and accessories in both pregalvanised and post hot dip galvanised finish are carried at all times to ensure timely delivery.

#### Development and testing

Metsec cable tray systems have been fully tested to develop accurate loading graphs. Further verification tests have also been done under the requirements of BS EN 61537 – Cable Management – cable tray systems and cable ladder systems. These tests include impact resistance, marking, connection of reusable components, safe working load tests, electrical continuity, and performance of steel at extreme temperature ranges.





# Loading graphs

Working loads are represented graphically as shown and are based on the cable tray being continuous over four spans or more. Deflection has been limited to SPAN/200 generally, based on the end span condition as the worst case. Deflection will be less than this on internal spans. However, on wider trays, additional deflection will be induced locally across the base of the tray, depending on the width of the tray and the load distribution across the width. This will not be detrimental to the structural performance of the tray but may need consideration if appearance is of prime importance.

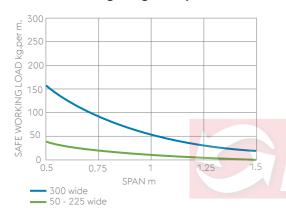
# Bespoke systems

In addition to standard cable tray systems, Metsec has the ability to manufacture non standard cable tray systems to order.

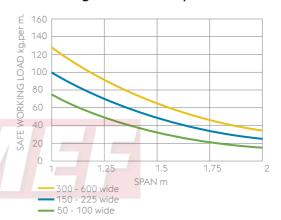
Due to sophisticated equipment and software, prototypes can be produced quickly for sample approval.

It is important for customers to issue the complete order at the outset to allow full use of materials and avoid expensive waste.

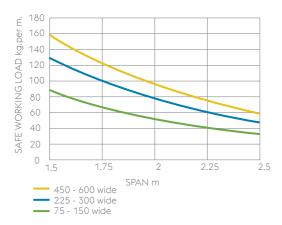
#### Non-return flange - light duty



#### Return flange - medium duty



#### Return flange - heavy duty



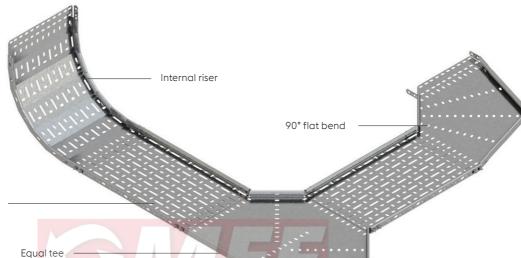
# CABLE TRAY SYSTEMS

# System Configuration and Support

Metsec cable trays are designed as a complete system with simple accessories. Integral connectors are included for bends tees etc. for all cable tray ranges.

When installing Metsec cable trays, care should be taken to ensure the support is within 600mm of a joint. Accessories

(e.g. bends, tees, crossovers etc.) should have adequate support, additional support will be required for larger components. Light duty cable tray straights have one end swaged for easy connection to the next tray. When light duty straight trays are cut to smaller lengths on site, connection to the next tray requires fishplates.

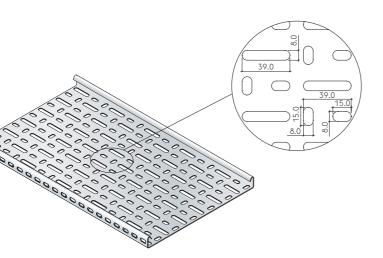


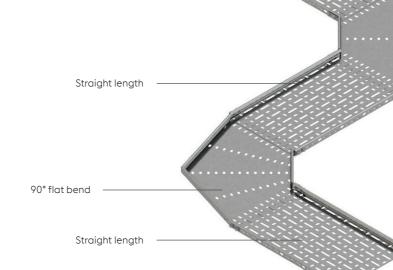
Straight length

#### **Technical Construction Details**

Straight length

Medium and heavy duty cable tray systems have cable-friendly return flanges that are also slotted for all widths as standard. The unique perforation pattern in the base of the cable trays allows ease of attachment for cables with more than adequate ventilation. All Metsec cable tray ranges have the same plan footprint that facilitates the set out of cable runs prior to finalisation of design.





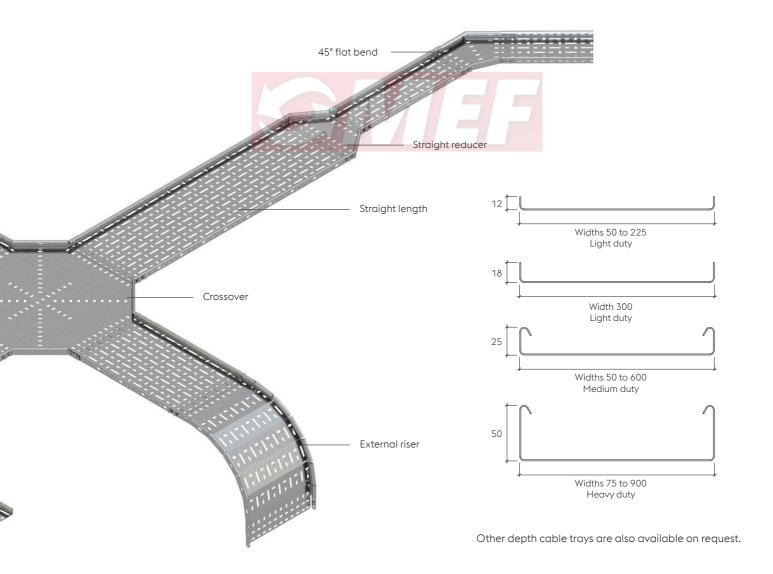
# Materials and Finishes

Materials and finishes available are mild steel pre-galvanised as standard, mild steel hot dip galvanised after manufacture and stainless steel grade 1.4404 (316L) to order.

**Mild steel pre-galvanised:** manufactured from steel complying with BS EN 10346

**Mild steel hot dip galvanised:** manufactured from steel complying with BS EN 10130 and hot dip galvanised after manufacture to BS EN ISO 1461

**Stainless steel:** manufactured from stainless steel grade 1.4404 (316L) complying with BS EN 10088-1 and BS EN 10088-2



CABLE TRAY SYSTEMS 89

# STANDARDS

Metsec cable tray systems generally conform to BS EN 61537 Cable Management – cable tray systems and cable ladder systems.

Information relating to compliance is detailed/highlighted within the following sections of the standard:

## **6 Classification**

<b>6.1</b> 6.1.1	According to material  Metsec cable tray systems are metallic system components	<b>6.4</b> 6.4.1	According to electrical conductivity  Metsec cable tray systems are electrically conductive system components
<b>6.2</b> 6.2.2	According to resistance to flame propagation Metsec cable tray systems are non - flame propagating system components	<b>6.5</b> 6.5.2	According to resistance against corrosion  Metsec cable tray systems are made of steel with metallic finishes or stainless steel
<b>6.3</b> 6.3.2	According to electrical continuity characteristics  Metsec cable tray systems have electrical continuity characteristics	follow the	ce to corrosion is classified according to Table 1. and e relevant specification in Table 8, with compliance g to Table 7.)

# Table 1 – Classification for resistance against corrosion

Class	Reference – material and finish
0(a)	None
1	Electroplated to a minimum thickness of 5 µm
2	Electroplated to a minimum thickness of 12 μm
3	Pre-galvanised to grade 275 to BS EN 10346
4	Pre-galvanised to grade 350 to EN 10346
5	Post-galvanised to a zinc mean coating thickness (minimum) of 45 µm according to BS EN ISO 1461 for zinc thickness only
6	Post-galvanised to a zinc mean coating thickness (minimum) of 55 µm according to ISO 1461 for zinc thickness only
7	Post-galvanised to a zinc mean coating thickness (minimum) of 70 µm according to ISO 1461 for zinc thickness only
8	Post-galvanised to a zinc mean coating thickness (minimum) of 85 µm according to ISO 1461 for zinc thickness only
9A	Stainless steel manufactured to ASTM: A 240/A 240M – 95a designation S30400 or EN 10088 grade 1 – 4301 without a post treatment (b)
9B	Stainless steel manufactured to ASTM: A 240/A 240M – 95a designation S31603 or EN 10088 grade 1 – 4404 without a post treatment (b)
9C	Stainless steel manufactured to ASTM: A 240/A 240M – 95a designation S30400 or EN 10088 grade 1 – 4301 with a post treatment (b)
9D	Stainless steel manufactured to ASTM: A 240/A 240M – 95a designation S31603 or EN 10088 grade 1 – 4404 with a post treatment (b)
(a)	For materials which have no declared corrosion resistance classification
(b)	The post-treatment process is used to improve the protection against crevice crack corrosion and the contamination by other steels

Table 7 – System component compliance and classification for resistance against corrosion

System component Material and finishes	Classification according to	Compliance	Subclause for compliance check	
Non-metallic	6.5.1	Declaration	14.2.1	
Reference – zinc coating as in Table 1.	6.5.2 Table 1 classes 1 to 8	Declaration or measurement	14.2.2	
Non-referenced zinc coating	6.5.2 Table 1 classes 1 to 8	By neutral salt spray test NSS	14.2.3	
Reference – stainless steel as in Table 1.	6.5.2 Table 1 Class 9A to 9D	Declaration	14.2.2	
Non-referenced stainless steel	Not classified	Declaration	None	
Other metallic coatings	6.5.2 Table 1 Column 1 classes 1 to 8	By neutral salt spray test NSS	14.2.3	
Aluminium alloys or other metals	6.5.3 Under consideration	Under consideration	14.2.4	
Organic coatings	6.5.4 Under consideration	Under consideration	14.2.5	

Table 8 – Zinc coating thickness of reference materials

Class	Minimum thickness		Minimum coating thickness as given in BS EN 10346	Mean coating thickness (minimum) to ISO 1461	
	μm		μm	μm	
0 (a)	-				
1	5		-	-	
2	12		-	-	
3	-		13	-	
4	-		17	-	
5	-		-	45	
3	-		-	55	
4	-		-	70	
5	-		-	85	

a) As declared by the manufacturer or responsible vendor

#### 6.6 According to temperature

- 6.6.1 Minimum temperature for the system components is given in Table 2.
- 6.6.2 Maximum temperature for the system components is given in Table 3.
- 6.7 According to the free base area of the cable tray length as given in Table 4.

#### 6.9 According to impact resistance

6.9.4 System component offering impact resistance up to 20 J (as verified by testing in accordance with 10.9 Test for impact resistance.)

# 7 Marking and Documentation

7.1 Each system component is marked by a label. Labels used fully comply with the rubbing test. Boxed items are labelled on the packaging

Table 2 – Minimum temperature classification

sto	Minimum transport orage installation a lication temperatu	nd
	+5	
	- 5	
	- 15	
	- 20	
	- 40	
	- 50	

# Table 3 – Maximum temperature classification

Maximum transport, storage installation and application temperature °C		
+40		
+60		
+90		
+105		
+120		
+150		

Table 4 - Perforation base classification

Classification	Perforation in the free base area
А	Up to 2%
В	Over 2% and up to 15%
С	Over 15% and up to 30%
D	More than 30 %

NB: Classification D relates to IEC 60364 - 5 - 52 Subclause A.52.6.2 second paragraph

#### 8 Dimensions

Key cross sectional dimensions for straight cable ladders

Part No	External depth mm	Internal depth mm	External width mm	Internal width mm	X-sectional area mm²
CTSL12/0050	12	10.2	50	48.2	491.6
CTSL12/0075	12	10.2	75	73.2	746.6
CTSL12/0100	12	10.2	100	98.2	1001.6
CTSL12/0150	12	10.2	150	148.2	1511.6
CTSL12/0225	12	10.2	225	223.2	2276.6
CTSL18/0300	18	10.2	300	297.6	3035.5
CTSL25/0050	25	15.6	50	48.2	751.9
CTSL25/0075	25	23.2	75	73.2	1698.2
CTSL25/0100	25	23.2	100	98.2	2278.2
CTSL25/0150	25	23.2	150	148.2	3438.2
CTSL25/0225	25	23.2	225	223.2	5178.2
CTSL25/0300	25	23.2	300	298.0	6913.6
CTSL25/0450	25	23.0	450	447.6	10294.8
CTSL25/0600	25	22.6	600	597.6	13505.8
CTSL50/0075	50	22.6	75	73.2	1654.3
CTSL50/0100	50	48.2	100	98.2	4733.2
CTSL50/0150	50	48.2	150	148.2	7143.2
CTSL50/0225	50	48.2	225	222.6	10729.3
CTSL50/0300	50	47.6	300	297.6	14165.8
CTSL50/0450	50	47.6	450	447.0	21277.2
CTSL50/0600	50	47.0	600	597.0	28059.0
CTSL50/0750	50	47.0	750	746.0	35062.0
CTSL50/0900	50	46.0	900	896.0	41216.0

#### Minimum internal radius of fittings

Minimal internal radius of fittings available for the accommodation of cables is 125mm.

#### 9 Construction

- 9.1 Surfaces of system components which are likely to come into contact with cables during installation are inspected to ensure they shall not cause damage to the cables when installed correctly.
- 9.2 As with all metallic system components, care should be exercised that handling is in accordance with the relative COSHH regulations and gloves should be worn.
- 9.3 Screwed connections have been designed to withstand the mechanical stresses occurring during installations and normal use and will not cause damage to cables when correctly inserted. Screwed connections are in general ISO metric threads fully compliant to tests in accordance with 9.3.1 and 9.3.2 of the standard. Metsec cable tray systems are usually assembled using M6 roofing bolts particularly for couplers, fishplates and connection to supporting framework. These bolts should be tightened to a torque of 12N/m.

# **10 Mechanical Properties**

Cable tray lengths have been tested generally in accordance with the standard under 10.2 and 10.3 for verification of the loading graphs. It should be noted that independent testing has been carried out to verify the structural performance of the cable trays at the minimum and maximum temperature classifications for test conditions under 10.2.2.

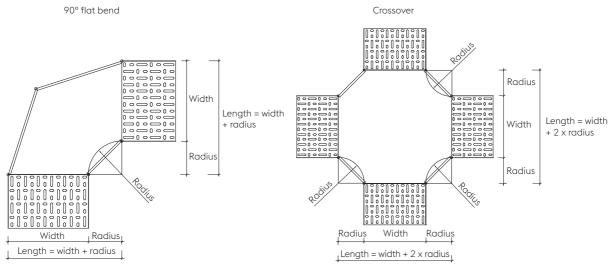
All accessories eg bends, tees etc. should be directly supported by a suitable support device or devices at appropriate positions.

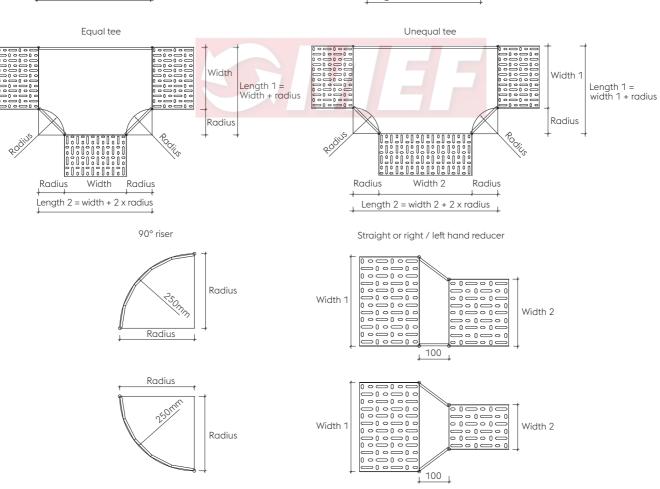


# CABLE TRAY SYSTEMS

## **Product Footprint**

Cable tray — accessory foot print Standard radius is 125mm





# **Straight Lengths & Couplers**

#### Straight length

Finish: pre-galvanised = PG, post-galvanised = HDG, stainless steel grade 1.4404 (316L) = SS

Width mm	Light duty	Medium duty	Heavy duty
50	CTSL12/0050PG3	CTSL25/0050PG3	N/A
75	CTSL12/0075PG3	CTSL25/0075PG3	CTSL50/0075PG3
100	CTSL12/0100PG3	CTSL25/0100PG3	CTSL50/0100PG3
150	CTSL12/0150PG3	CTSL25/0150PG3	CTSL50/0150PG3
225	CTSL12/0225PG3	CTSL25/0225PG3	CTSL50/0225PG3
300	CTSL18/0300PG3	CTSL25/0300PG3	CTSL50/0300PG3
450	N/A	CTSL25/0450PG3	CTSL50/0450PG3
600	N/A	CTSL25/0600PG3	CTSL50/0600PG3
750	N/A	N/A	CTSL50/0750PG3
900	N/A	N/A	CTSL50/0900PG3



#### Medium duty straight couplers

Only required for straight tray to straight tray connection – medium duty range. Finish: post-galvanised = HDG, stainless steel grade 1.4404 (316L) = SS

Sold in pairs (Fasteners excluded)
CTSC25HDGPR
Not available in pre-galvanised



## Medium duty wrap over couplers

Only required for straight tray to straight tray connection – medium duty range. Finish: pre-galvanised = PG, post-galvanised = HDG, stainless steel grade 1.4404 (316L) = SS

Tillish: pre garvariisea = 1 0, post ga	1vanised = 1120, stainless steer grade 1: 110 1(510E) = 55
Soldin	pairs (Fasteners excluded)
30ld III	pulls (i datellers excluded)
	CTC25PGPR



# Heavy duty straight couplers

Only required for straight tray to straight tray connection – heavy duty range. Finish: post-galvanised = HDG, stainless steel grade 1.4404 (316L) = SS

Sold in pairs (Fasteners excluded)	
CTSC50HDGPR	
Not available in pre-galvanised	



#### Heavy duty wrap over couplers

Only required for straight tray to straight tray connection – heavy duty range. Finish: pre-galvanised = PG, post-galvanised = HDG, stainless steel grade 1.4404 (316L) = SS

Sold in pairs (Fasteners excluded)
CTC50PGPR



# Flat Bends

# 90° flat bends

Finish: pre-galvanised = PG, post-galvanised = HDG, stainless steel grade 1.4404 (316L) = SS

Width mm	Light duty	Medium duty	Heavy duty
50	CTFB12/0050PG90	CTFB25/0050PG90	N/A
75	CTFB12/0075PG90	CTFB25/0075PG90	CTFB50/0075PG90
100	CTFB12/0100PG90	CTFB25/0100PG90	CTFB50/0100PG90
150	CTFB12/0150PG90	CTFB25/0150PG90	CTFB50/0150PG90
225	CTFB12/0225PG90	CTFB25/0225PG90	CTFB50/0225PG90
300	CTFB18/0300PG90	CTFB25/0300PG90	CTFB50/0300PG90
450	N/A	CTFB25/0450PG90	CTFB50/0450PG90
600	N/A	CTFB25/0600PG90	CTFB50/0600PG90
750	N/A	N/A	CTFB50/0750PG90
900	N/A	N/A	CTFB50/0900PG90



#### 45° flat bends

Finish: pre-galvanised = PG, post-galvanised = HDG, stainless steel grade 1.4404 (316L) = SS

Width mm	Light duty	Medium duty	Heavy duty
50	CTFB12/0050PG45	CTFB25/0050PG45	N/A
75	CTFB12/0075PG45	CTFB25/0075PG45	CTFB50/0075PG45
100	CTFB12/0100PG45	CTFB25/0100PG45	CTFB50/0100PG45
150	CTFB12/0150PG45	CTFB25/0150PG45	CTFB50/0150PG45
225	CTFB12/0225PG45	CTFB25/0225PG45	CTFB50/0225PG45
300	CTFB18/0300PG45	CTFB25/0300PG45	CTFB50/0300PG45
450	N/A	CTFB25/0450PG45	CTFB50/0450PG45
600	N/A	CTFB25/0600PG45	CTFB50/0600PG45
750	N/A	N/A	CTFB50/0750PG45
900	N/A	N/A	CTFB50/0900PG45



## Adjustable flat bend (made to order)

(Not available for light duty cable tray)

Finish: pre-galvanised = PG, post-galvanised = HDG, stainless steel grade 1.4404 (316L) = SS

Width mm	Medium duty	Heavy duty
50	CTAB25/0050PG	N/A
75	CTAB25/0075PG	CTAB50/0075PG
100	CTAB25/0100PG	CTAB50/0100PG
150	CTAB25/0150PG	CTAB50/0150PG
225	CTAB25/0225PG	CTAB50/0225PG
300	CTAB25/0300PG	CTAB50/0300PG



# Tees

Equal tee

Finish: pre-galvanised = PG, post-galvanised = HDG, stainless steel grade 1.4404 (316L) = SS

Width mm	Light duty	Medium duty	Heavy duty
50	CTET12/0050PG	CTET25/0050PG	N/A
75	CTET12/0075PG	CTET25/0075PG	CTET50/0075PG
100	CTET12/0100PG	CTET25/0100PG	CTET50/0100PG
150	CTET12/0150PG	CTET25/0150PG	CTET50/0150PG
225	CTET12/0225PG	CTET25/0225PG	CTET50/0225PG
300	CTET18/0300PG	CTET25/0300PG	CTET50/0300PG
450	N/A	CTET25/0450PG	CTET50/0450PG
600	N/A	CTET25/0600PG	CTET50/0600PG
750	N/A	N/A	CTET50/0750PG
900	N/A	N/A	CTET50/0900PG



## Unequal tee (made to order)

Finish: pre-galvanised = PG, post-galvanised = HDG, stainless steel grade 1.4404 (316L) = SS

How to generate the part number – CTUT(depth)/W1/W2(finish) Example – CTUT50/300/150PG

Table below shows a complete list of W1 and W2 combinations.

W1	W2			
50	75, 100, 150, 225, 300, 450, 600, 750, 900			
75	50, 100, 150, 225, 300, 450, 600, 750, 900			
100	50, 75, 150, 225, 300, 450, 600, 750, 900			
150	50, 75, 100, 225, 300, 450, 600, 750, 900			
225	50, 75, 100, 150, 300, 450, 600, 750, 900			
300	50, 75, 100, 150, 225, 450, 600, 750, 900			
450	50, 75, 100, 150, 225, 300, 600, 750, 900			
600	50, 75, 100, 150, 225, 300, 450, 750, 900			
750	50, 75, 100, 150, 225, 300, 450, 600, 900			
900	50, 75, 100, 150, 225, 300, 450, 600, 750			



# Crossovers, Risers & Reducers

#### Crossovers

Finish: pre-galvanised = PG, post-galvanised = HDG, stainless steel grade 1.4404 (316L) = SS

Width mm	Light duty	Medium duty	Heavy duty
50	CTCO12/0050PG	CTCO25/0050PG	N/A
75	CTCO12/0075PG	CTCO25/0075PG	CTCO50/0075PG
100	CTCO12/0100PG	CTCO25/0100PG	CTCO50/0100PG
150	CTCO12/0150PG	CTCO25/0150PG	CTCO50/0150PG
225	CTCO12/0225PG	CTCO25/0225PG	CTCO50/0225PG
300	CTCO18/0300PG	CTCO25/0300PG	CTCO50/0300PG
450	N/A	CTCO25/0450PG	CTCO50/0450PG
600	N/A	CTCO25/0600PG	CTCO50/0600PG
750	N/A	N/A	CTCO50/0750PG
900	N/A	N/A	CTCO50/0900PG



#### Internal riser – flexible

Finish: pre-galvanised = PG, post-galvanised = HDG, stainless steel grade 1.4404 (316L) = SS CTFR = Flexible risers are supplied flat and folded on site to suit angle.

CTIR = Internal risers are folded to suit stated angle.  $90 = 90^{\circ}$ ,  $60 = 60^{\circ}$ ,  $45 = 45^{\circ}$ ,  $30 = 30^{\circ}$  Eg: CTIR50/0900PG90

29. 611(30) 0 / 0 / 0 / 0						
Width mm	Light duty	Medium duty	Heavy duty			
50	CTFR12/0050PG	CTFR25/0050PG	N/A			
75	CTFR12/0075PG	CTFR25/0075PG	CTFR50/0075PG			
100	CTFR12/0100PG	CTFR25/0100PG	CTFR50/0100PG			
150	CTFR12/0150PG	CTFR25/0150PG	CTFR50/0150PG			
225	CTFR12/0225PG	CTFR25/0225PG	CTFR50/0225PG			
300	CTFR18/0300PG	CTFR25/0300PG	CTFR50/0300PG			
450	N/A	CTFR25/0450PG	CTFR50/0450PG			
600	N/A	CTFR25/0600PG	CTFR50/0600PG			
750	N/A	N/A	CTIR50/0750PG90 (only available pre-folded)			
900	N/A	N/A	CTIR50/0900PG90 (only available pre-folded)			



## External riser – flexible

Finish: pre-galvanised = PG, post-galvanised = HDG, stainless steel grade 1.4404 (316L) = SS CTFR = Flexible risers are supplied flat and folded on site to suit angle.

CTER = External risers are folded to suit stated angle.  $90 = 90^{\circ}$ ,  $60 = 60^{\circ}$ ,  $45 = 45^{\circ}$ ,  $30 = 30^{\circ}$  E.g: CTER50/0900PG90

Width mm	Light duty	Medium duty	Heavy duty
50	CTFR12/0050PG	CTFR25/0050PG	N/A
75	CTFR12/0075PG	CTFR25/0075PG	CTFR50/0075PG
100	CTFR12/0100PG	CTFR25/0100PG	CTFR50/0100PG
150	CTFR12/0150PG	CTFR25/0150PG	CTFR50/0150PG
225	CTFR12/0225PG	CTFR25/0225PG	CTFR50/0225PG
300	CTFR18/0300PG	CTFR25/0300PG	CTFR50/0300PG
450	N/A	CTFR25/0450PG	CTFR50/0450PG
600	N/A	CTFR25/0600PG	CTFR50/0600PG
750	N/A	N/A	CTER50/0750PG90 (only available pre-folded)
900	N/A	N/A	CTER50/0900PG90 (only available pre-folded)



# Reducers (made to order)

Finish: pre-galvanised = PG, post-galvanised = HDG, stainless steel grade 1.4404 (316L) = SS For left hand reducers replace CTSR in part number with CTLR.

For right hand reducers replace CTSR in part number with CTRR.

Width mm		Light duty		Medium duty	Heavy duty
W1	W2				
75	50	CTSR12/0075/0050F	PG	CTSR25/0075/0050PG	N/A
100	50	CTSR12/0100/0050F	PG	CTSR25/0100/0050PG	N/A
150	50	CTSR12/0150/0050F	PG	CTSR25/0150/0050PG	N/A
225	50	CTSR12/0225/0050F	PG	CTSR25/0225/0050PG	N/A
300	50	CTSR18/0300/0050F	PG	CTSR25/0300/0050PG	N/A
450	50	N/A		CTSR25/0450/0050PG	N/A
600	50	N/A		CTSR25/0600/0050PG	N/A
750	50	N/A		N/A	N/A
900	50	N/A		N/A	N/A
100	75	CTSR12/0100/0075F	PG	CTSR25/0100/0075PG	CTSR50/0100/0075PG
150	75	CTSR12/0150/0075F	PG	CTSR25/0150/0075PG	CTSR50/0150/0075PG
225	75	CTSR12/0225/0075F	PG	CTSR25/0225/0075PG	CTSR50/0225/0075PG
300	75	N/A		CTSR25/0300/0075PG	CTSR50/0300/0075PG
450	75	N/A		CTSR25/0450/0075PG	CTSR50/0450/0075PG
600	75	N/A		CTSR25/0600/0075PG	CTSR50/0600/0075PG
750	75	N/A		N/A	CTSR50/0750/0075PG
900	75	N/A		N/A	CTSR50/0900/0075PG
150	100	CTSR12/0150/0100F	PG	CTSR25/0150/0100PG	CTSR50/0150/0100PG
225	100	CTSR12/0225/0100F	PG	CTSR25/0225/0100PG	CTSR50/0225/0100PG
300	100	N/A		CTSR25/0300/0100PG	CTSR50/0300/0100PG
450	100	N/A		CTSR25/0450/0100PG	CTSR50/0450/0100PG
600	100	N/A		CTSR25/0600/0100PG	CTSR50/0600/0100PG
750	100	N/A		N/A	CTSR50/0750/0100PG
900	100	N/A		N/A	CTSR50/0900/0100PG
225	150	CTSR12/0225/0150F	PG	CTSR25/0225/0150PG	CTSR50/0225/0150PG
300	150	N/A		CTSR25/0300/0150PG	CTSR50/0300/0150PG
450	150	N/A		CTSR25/0450/0150PG	CTSR50/0450/0150PG
600	150	N/A		CTSR25/0600/0150PG	CTSR50/0600/0150PG
750	150	N/A		N/A	CTSR50/0750/0150PG
900	150	N/A		N/A	CTSR50/0900/0150PG
300	225	N/A		CTSR25/0300/0225PG	CTSR50/0300/0225PG
450	225	N/A		CTSR25/0450/0225PG	CTSR50/0450/0225PG
600	225	N/A		CTSR25/0600/0225PG	CTSR50/0600/0225PG
750	225	N/A		N/A	CTSR50/0750/0225PG
900	225	N/A		N/A	CTSR50/0900/0225PG
450	300	N/A		CTSR25/0450/0300PG	CTSR50/0450/0300PG
600	300	N/A		CTSR25/0600/0300PG	CTSR50/0600/0300PG
750	300	N/A		N/A	CTSR50/0750/0300PG
900	300	N/A		N/A	CTSR50/0900/0300PG
600	450	N/A		CTSR25/0600/0450PG	CTSR50/0600/0450PG
750	450	N/A		N/A	CTSR50/0750/0450PG
900	450	N/A		N/A	CTSR50/0900/0450PG
750	600	N/A		N/A	CTSR50/0750/0600PG
900	600	N/A		N/A	CTSR50/0900/0600PG
900	750	N/A		N/A	CTSR50/0900/0750PG



#### Fishplate couplers

Always required for cut lengths of light duty tray
Finish: pre-galvanised = PG, post-galvanised = HDG, stainless steel grade 1.4404 (316L) = SS

Width mm	(always required for cut lengths of light duty tray)
50	CTFP050PG
100	CTFP100PG
125	CTFP125PG
150	CTFP150PG
225	CTFP225PG
300	CTFP300PG
450	CTFP450PG
600	CTFP600PG
750	CTFP750PG
900	CTFP900PG



#### Covers

## Straight length covers – 3m long (made to order)

Finish: pre-galvanised = PG, post-galvanised = HDG, stainless steel grade 1.4404 (316L) = SS Standard closed covers = CC, ventilated cover = CV Includes 6 fixing clamps and fasteners

Width mm	Light duty	Medium duty	Heavy duty
50	CTSL12CV/050PG	CTSL25CC/050PG	N/A
75	CTSL12CV/075PG	CTSL25CC/075PG	CTSL50CC/075PG
100	CTSL12CV/100PG	CTSL25CC/100PG	CTSL50CC/100PG
150	CTSL12CV/150PG	CTSL25CC/150PG	CTSL50CC/150PG
225	CTSL12CV/225PG	CTSL25CC/225PG	CTSL50CC/225PG
300	CTSL18CV/300PG	CTSL25CC/300PG	CTSL50CC/300PG
450	N/A	CTSL25CC/450PG	CTSL50CC/450PG
600	N/A	CTSL25CC/600PG	CTSL50CC/600PG
750	N/A	N/A	CTSL50CC/750PG
900	N/A	N/A	CTSL50CC/900PG



## Extra cover clips

Finish: pre-galvanised = PG, post-galvanised = HDG, stainless steel grade 316 = SS Standard closed covers = CC, ventilated cover = CV

Duty	Standard	Ventilated
Light	N/A	CTCCV18HDG
Medium	CTCCC25HDG	CTCCV25HDG
Heavy	CTCCC50HDG	CTCCV50HDG



<sup>\*</sup>NB: Closed cover not available for 12mm and 18mm deep cable tray.

#### 90° flat bend covers (made to order)

Finish: pre-galvanised = PG, post-galvanised = HDG, stainless steel grade 1.4404 (316L) = SS Standard closed covers = CC, ventilated cover = CV Includes 5 fixing clamps and fasteners

Width mm	Light duty	Medium duty	Heavy duty
50	CTFB12CV/050PG90	CTFB25CC/050PG90	N/A
75	CTFB12CV/075PG90	CTFB25CC/075PG90	CTFB50CC/075PG90
100	CTFB12CV/100PG90	CTFB25CC/100PG90	CTFB50CC/100PG90
150	CTFB12CV/150PG90	CTFB25CC/150PG90	CTFB50CC/150PG90
225	CTFB12CV/225PG90	CTFB25CC/225PG90	CTFB50CC/225PG90
300	CTFB18CV/300PG90	CTFB25CC/300PG90	CTFB50CC/300PG90
450	N/A	CTFB25CC/450PG90	CTFB50CC/450PG90
600	N/A	CTFB25CC/600PG90	CTFB50CC/600PG90
750	N/A	N/A	CTFB50CC/750PG90
900	N/A	N/A	CTFB50CC/900PG90



#### 45° flat bend covers (made to order)

Finish: pre-galvanised = PG, post-galvanised = HDG, stainless steel grade 316 = SS Standard closed covers = CC, ventilated cover = CV Includes 5 fixing clamps and fasteners

Width mm	Light duty	Medium duty	Heavy duty
50	CTFB12CV/050PG45	CTFB25CC/050PG45	N/A
75	CTFB12CV/075PG45	CTFB25CC/075PG45	CTFB50CC/075PG45
100	CTFB12CV/100PG45	CTFB25CC/100PG45	CTFB50CC/100PG45
150	CTFB12CV/150PG45	CTFB25CC/150PG45	CTFB50CC/150PG45
225	CTFB12CV/225PG45	CTFB25CC/225PG45	CTFB50CC/225PG45
300	CTFB18CV/300PG45	CTFB25CC/300PG45	CTFB50CC/300PG45
450	N/A	CTFB25CC/450PG45	CTFB50CC/450PG45
600	N/A	CTFB25CC/600PG45	CTFB50CC/600PG45
750	N/A	N/A	CTFB50CC/750PG45
900	N/A	N/A	CTFB50CC/900PG45



<sup>\*</sup>NB: Closed cover not available for 12mm and 18mm deep cable tray.

<sup>\*</sup>NB: Closed cover not available for 12mm and 18mm deep cable tray.

#### Equal tee covers (made to order)

Finish: pre-galvanised = PG, post-galvanised = HDG, stainless steel grade 1.4404 (316L) = SS Standard closed covers = CC, ventilated cover = CV Includes 5 fixing clamps and fasteners

Width mm	Light duty	Medium duty	Heavy duty
50	CTET12CV/050PG	CTET25CC/050PG	N/A
75	CTET12CV/075PG	CTET25CC/075PG	CTET50CC/075PG
100	CTET12CV/100PG	CTET25CC/100PG	CTET50CC/100PG
150	CTET12CV/150PG	CTET25CC/150PG	CTET50CC/150PG
225	CTET12CV/225PG	CTET25CC/225PG	CTET50CC/225PG
300	CTET18CV/300PG	CTET25CC/300PG	CTET50CC/300PG
450	N/A	CTET25CC/450PG	CTET50CC/450PG
600	N/A	CTET25CC/600PG	CTET50CC/600PG
750	N/A	N/A	CTET50CC/750PG
900	N/A	N/A	CTET50CC/900PG



#### Crossover covers (made to order)

Finish: pre-galvanised = PG, post-galvanised = HDG, stainless steel grade 1.4404 (316L) = SS Standard closed covers = CC, ventilated cover = CV Includes 4 fixing clamps and fasteners

Width mm	Light duty	Medium duty	Heavy duty
50	CTCO12CV/050PG	CTCO25CC/050PG	N/A
75	CTCO12CV/075PG	CTCO25CC/075PG	CTCO50CC/075PG
100	CTCO12CV/100PG	CTCO25CC/100PG	CTCO50CC/100PG
150	CTCO12CV/150PG	CTCO25CC/150PG	CTCO50CC/150PG
225	CTCO12CV/225PG	CTCO25CC/225PG	CTCO50CC/225PG
300	CTCO18CV/300PG	CTCO25CC/300PG	CTCO50CC/300PG
450	N/A	CTCO25CC/450PG	CTCO50CC/450PG
600	N/A	CTCO25CC/600PG	CTCO50CC/600PG
750	N/A	N/A	CTCO50CC/750PG
900	N/A	N/A	CTCO50CC/900PG



<sup>\*</sup>NB: Closed cover not available for 12mm and 18mm deep cable tray.

<sup>\*</sup>NB: Closed cover not available for 12mm and 18mm deep cable tray.

## Unequal tee covers (made to order)

Finish: pre-galvanised = PG, post-galvanised = HDG, stainless steel grade 1.4404 (316L) = SS Standard closed covers = CC, ventilated cover = CV Includes 5 fixing clamps and fasteners

How to generate the part number – CTUT(cover type)W1/W2(finish) Example – CTUTC/0300/0150PG

Table below shows a complete list of W1 and W2 combinations.

W1	W2
50	75, 100, 150, 225, 300, 450, 600, 750, 900
75	50, 100, 150, 225, 300, 450, 600, 750, 900
100	50, 75, 150, 225, 300, 450, 600, 750, 900
150	50, 75, 100, 225, 300, 450, 600, 750, 900
225	50, 75, 100, 150, 300, 450, 600, 750, 900
300	50, 75, 100, 150, 225, 450, 600, 750, 900
450	50, 75, 100, 150, 225, 300, 600, 750, 900
600	50, 75, 100, 150, 225, 300, 450, 750, 900
750	50, 75, 100, 150, 225, 300, 450, 600, 900
900	50, 75, 100, 150, 225, 300, 450, 600, 750



<sup>\*</sup>NB: Closed cover not available for 12mm and 18mm deep cable tray.



CABLE TRAY SYSTEMS

#### Reducer covers (made to order)

Finish: pre-galvanised = PG, post-galvanised = HDG, stainless steel grade 1.4404 (316L) = SS Standard closed covers = CC, ventilated cover = CV Includes 4 fixing clamps and fasteners

For left hand reducer covers replace CTSR in part number with CTLR. For right hand reducer covers replace CTSR in part number with CTRR.

Width mm		Light duty	Medium duty	Heavy duty
W1	W2			
75	50	CTSRCV12/0075/0050PG	CTSRCC25/0075/0050PG	N/A
100	50	CTSRCV12/0100/0050PG	CTSRCC25/0100/0050PG	N/A
150	50	CTSRCV12/0150/0050PG	CTSRCC25/0150/0050PG	N/A
225	50	CTSRCV12/0225/0050PG	CTSRCC25/0225/0050PG	N/A
300	50	N/A	CTSRCC25/0300/0050PG	N/A
450	50	N/A	CTSRCC25/0450/0050PG	N/A
600	50	N/A	CTSRCC25/0600/0050PG	N/A
750	50	N/A	N/A	N/A
900	50	N/A	N/A	N/A
100	75	CTSRCV12/0100/0075PG	CTSRCC25/0100/0075PG	CTSRCC50/0100/0075PG
150	75	CTSRCV12/0150/0075PG	CTSRCC25/0150/0075PG	CTSRCC50/0150/0075PG
225	75	CTSRCV12/0225/0075PG	CTSRCC25/0225/0075PG	CTSRCC50/0225/0075PG
300	75	N/A	CTSRCC25/0300/0075PG	CTSRCC50/0300/0075PG
450	75	N/A	CTSRCC25/0450/0075PG	CTSRCC50/0450/0075PG
600	75	N/A	CTSRCC25/0600/0075PG	CTSRCC50/0600/0075PG
750	75	N/A	N/A	CTSRCC50/0750/0075PG
900	75	N/A	N/A	CTSRCC50/0900/0075PG
150	100	CTSRCV12/0150/0100PG	CTSRCC25/0150/0100PG	CTSRCC50/0150/0100PG
225	100	CTSRCV12/0225/0100PG	CTSRCC25/0225/0100PG	CTSRCC50/0225/0100PG
300	100	N/A	CTSRCC25/0300/0100PG	CTSRCC50/0300/0100PG
450	100	N/A	CTSRCC25/0450/0100PG	CTSRCC50/0450/0100PG
600	100	N/A	CTSRCC25/0600/0100PG	CTSRCC50/0600/0100PG
750	100	N/A	N/A	CTSRCC50/0750/0100PG
900	100	N/A	N/A	CTSRCC50/0900/0100PG
225	150	CTSRCV12/0225/0150PG	CTSRCC25/0225/0150PG	CTSRCC50/0225/0150PG
300	150	N/A	CTSRCC25/0300/0150PG	CTSRCC50/0300/0150PG
450	150	N/A	CTSRCC25/0450/0150PG	CTSRCC50/0450/0150PG
600	150	N/A	CTSRCC25/0600/0150PG	CTSRCC50/0600/0150PG
750	150	N/A	N/A	CTSRCC50/0750/0150PG
900	150	N/A	N/A	CTSRCC50/0900/0150PG
300	225	N/A	CTSRCC25/0300/0225PG	CTSRCC50/0300/0225PG
450	225	N/A	CTSRCC25/0450/0225PG	CTSRCC50/0450/0225PG
600	225	N/A	CTSRCC25/0600/0225PG	CTSRCC50/0600/0225PG
750	225	N/A	N/A	CTSRCC50/0750/0225PG
900	225	N/A	N/A	CTSRCC50/0900/0225PG
450	300	N/A	CTSRCC25/0450/0300PG	CTSRCC50/0450/0300PG
600	300	N/A	CTSRCC25/0600/0300PG	CTSRCC50/0600/0300PG
750	300	N/A	N/A	CTSRCC50/0750/0300PG
900	300	N/A	N/A	CTSRCC50/0900/0300PG
600	450	N/A	CTSRCC25/0600/0450PG	CTSRCC50/0600/0450PG
750	450	N/A	N/A	CTSRCC50/0750/0450PG
900	450	N/A	N/A	CTSRCC50/0900/0450PG
750	600	N/A	N/A	CTSRCC50/0750/0600PG
900	600	N/A	N/A	CTSRCC50/0900/0600PG
900	750	N/A	N/A	CTSRCC50/0900/0750PG



<sup>\*</sup>NB: Closed cover not available for 12mm and 18mm deep cable tray.

## 90° internal riser covers (made to order)

Finish: pre-galvanised = PG, post-galvanised = HDG, stainless steel grade 1.4404 (316L) = SS Standard closed covers = CC, ventilated cover = CV Includes 8 fixing clamps and fasteners

Width mm	Light duty	Medium duty	Heavy duty
50	CTIR12CV/0050PG90	CTIR25CC/0050PG90	N/A
75	CTIR12CV/0075PG90	CTIR25CC/0075PG90	CTIR50CC/0075PG90
100	CTIR12CV/0100PG90	CTIR25CC/0100PG90	CTIR50CC/0100PG90
150	CTIR12CV/0150PG90	CTIR25CC/0150PG90	CTIR50CC/0150PG90
225	CTIR12CV/0225PG90	CTIR25CC/0225PG90	CTIR50CC/0225PG90
300	CTIR18CV/0300PG90	CTIR25CC/0300PG90	CTIR50CC/0300PG90
450	N/A	CTIR25CC/0450PG90	CTIR50CC/0450PG90
600	N/A	CTIR25CC/0600PG90	CTIR50CC/0600PG90
750	N/A	N/A	CTIR50CC/0750PG90
900	N/A	N/A	CTIR50CC/0900PG90



#### 90° external riser covers (made to order)

Finish: pre-galvanised = PG, post-galvanised = HDG, stainless steel grade 1.4404 (316L) = SS Standard closed covers = CC, ventilated cover = CV Includes 8 fixing clamps and fasteners

Width mm	Light duty	Medium duty	Heavy duty
50	CTER12CV/0050PG90	CTER25CC/0050PG90	N/A
75	CTER12CV/0075PG90	CTER25CC/0075PG90	CTER50CC/0075PG90
100	CTER12CV/0100PG90	CTER25CC/0100PG90	CTER50CC/0100PG90
150	CTER12CV/0150PG90	CTER25CC/0150PG90	CTER50CC/0150PG90
225	CTER12CV/0225PG90	CTER25CC/0225PG90	CTER50CC/0225PG90
300	CTER18CV/0300PG90	CTER25CC/0300PG90	CTER50CC/0300PG90
450	N/A	CTER25CC/0450PG90	CTER50CC/0450PG90
600	N/A	CTER25CC/0600PG90	CTER50CC/0600PG90
750	N/A	N/A	CTER50CC/0750PG90
900	N/A	N/A	CTER50CC/0900PG90



<sup>\*</sup>NB: Closed cover not available for 12mm and 18mm deep cable tray.

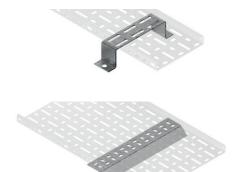
<sup>\*</sup>NB: Closed cover not available for 12mm and 18mm deep cable tray.

# Accessories

# Stand off brackets

Finish: pre-galvanised = PG, post-galvanised = HDG, stainless steel grade 316 = SS

Width mm	
50	CTSO050PG
100	CTSO075PG
125	CTSO100PG
150	CTSO150PG
225	CTSO225PG
300	CTSO300PG
450	CTSO450PG
600	CTSO600PG
750	CTSO750PG
900	CTSO900PG



# Hanger brackets

Finish: pre-galvanised = PG, post-galvanised = HDG, stainless steel grade 1.4404 (316L) = SS

Width mm	
50	CTHB050/PG
75	CTH <mark>B0</mark> 75/PG
100	CTHB100/PG
150	CTH <mark>B15</mark> 0/PG



## Straight divider – 3m

Finish: pre-galvanised = PG, post-galvanised = HDG, stainless steel grade 1.4404 (316L) = SS

Tray depth mm	
25	CTDI025PG3
50	CTDI050PG3



## Earthing straps

Finish: electro-tinned

Supplied in packs of 10
CT/ES100
Copper braid electro tinned 4mm², 100mm long (use M6 x 12 roofing bolts)



# Roofing bolts and nuts

Finish: BZP as standard, stainless steel grade 1.4404 (316L) = SS, post-galvanised = HDG

M6 x 12 roofing bolts
Supplied in packs of 100
M06X12RB



CABLE TRAY SYSTEMS 107