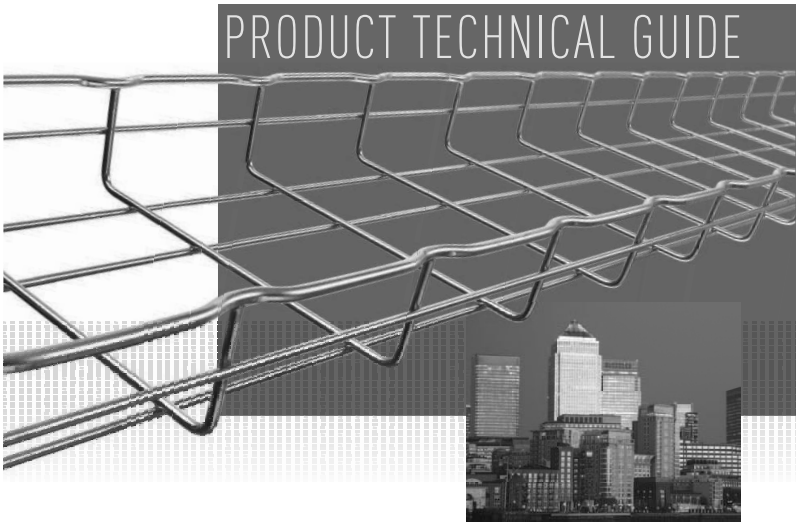
A Group brand legrand

# CABLOFIL STEEL WIRE CABLE TRAY

## PRODUCT TECHNICAL GUIDE



CABLOFIL®

CABLOFIL

# Global strength

## built on local knowledge

Legrand is the global specialist in electrical and digital building infrastructures. Innovation is the driving force behind its development. With an increasing investment in research and development (circa 5% of sales) and more than 4,000 active patents, the Legrand Group is focused on maintaining a high rate of new product launches that present innovative solutions to the market.

### CORPORATE SOCIAL RESPONSIBILITY

Legrand's 2014-2018 CSR roadmap is a natural extension to the governance and sustainable development approach in which the company has been engaged for many years. The CSR roadmap firmly reasserts Legrand's commitment to sustainable development.

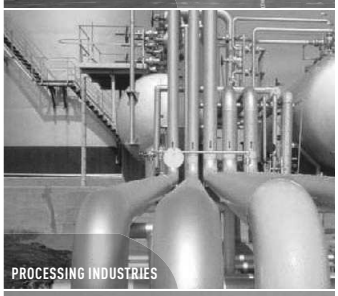



**Find out more about Legrand's CSR roadmap at: www.legrand.co.uk/CSR**

















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# Legrand
## the cable management expert

### Complete cable management solutions

Using its global strength and market leading position, Legrand has developed a complete range of cable management solutions, including:

- **Swifts cable ladder**
- **Swifts cable tray**
- **Salamandre distribution trunking and lighting trunking**
- **Cablofil steel wire cable tray**
- **Floor systems**
- **Perimeter systems**

### Specification data for engineering software systems

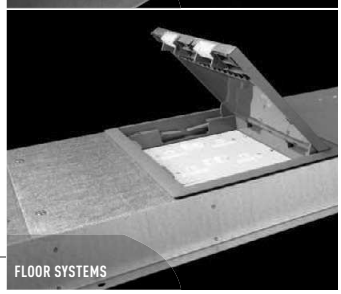
As part of its ongoing commitment to customer support, Legrand's cable management ranges have been integrated into a number of plant design modelling systems.

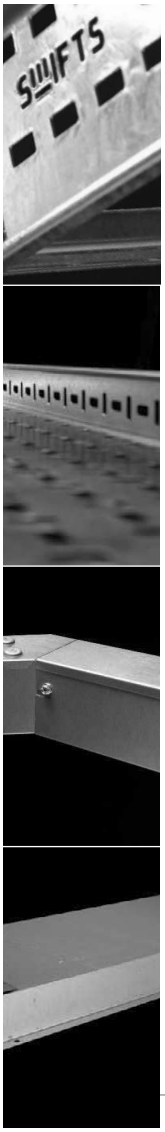
**Find out more about Legrand's 3D modelling capabilities at: www.legrand3d.co.uk**


SWIFTS
CABLE LADDER

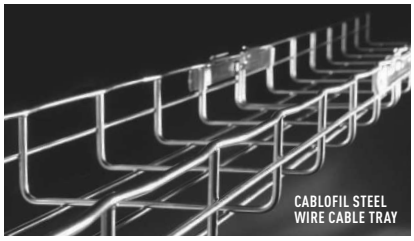

SWIFTS
CABLE TRAY


SALAMANDRE
DISTRIBUTION TRUNKING


FLOOR SYSTEMS






## Cablofil...
## trusted for installations large and small

Cablofil steel wire cable tray has been tried and tested in installations of all sizes throughout the UK and beyond, from light duty requirements in small commercial buildings through to extra heavy duty installations in refineries and heavy industry applications such as shipbuilding.



## One team. One product portfolio...
## endless possibilities

As part of Legrand UK's cable management business unit, Cablofil products and systems are supported by a team of experts who live and breathe cable management.

With in-depth knowledge, a vast combined level of experience and a complete cable management product offering at their disposal, our team is able to provide customers with support and advice at any stage of their project, from design through to installation and beyond.



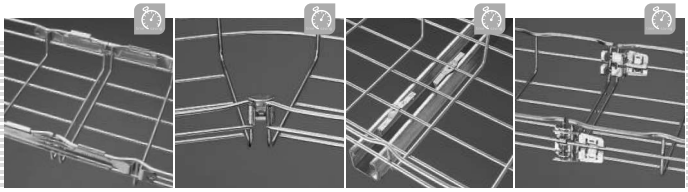
**Legrand's market leading Cablofil steel wire cable tray provides a robust, versatile cable management solution for installations of almost any size**

- **Fast, simple installation**
- **Easily reconfigured**
- **Slot and tab boltless system**



Designed to be easy to install and configure on site, Cablofil is the UK market leader in steel wire cable tray... an established and popular choice in cable management installations.

# CABLOFIL...
## the leader in steel wire cable tray



### Fast, simple, reliable installations

Cablofil steel wire cable tray is supplied in straight lengths from which sophisticated installations can be created without the need for additional fittings.

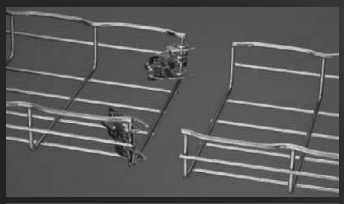
Simply cut and shape lengths to form bends, tees, crosspieces etc and secure quickly and easily using a range of 'slot and tab' fixings that do not require nuts and bolts.

- Vast range of supports for wall, ceiling and floor mounting
- Save on installation time with Cablofil's fast fix brackets
- Eradicate the need for nuts and bolts with Cablofil's 'slot and tab' boltless system
- Straight lengths available with pre-fitted couplers for rapid connection
- Natural ventilation provides greater cable efficiency
- Available in several finishes to suit different installation requirements

# INNOVATIONS
## for easy installations

### Fasclic Auto...

The new Fasclic Auto range of 54 mm deep steel wire cable tray is supplied complete with pre-fitted couplers for quick and easy connection of straight lengths. Lengths simply clip together without the need for additional fasteners.

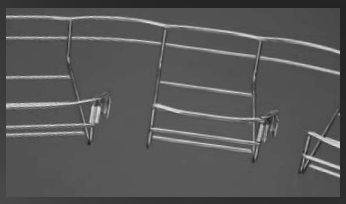


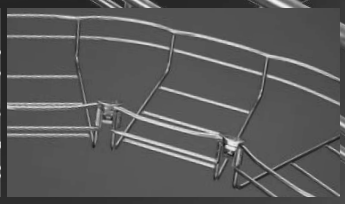




### Faslock Auto...

The simple answer to fabricating fittings on site. Create radius bends and reducers in minutes with Faslock Auto. No additional fasteners (or fuss) required.





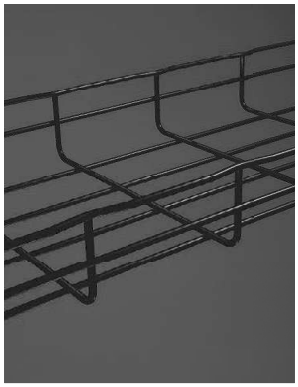
# Specialist solutions

## EZ+... increased life expectancy in demanding environments

Potentially corrosive environments such as tunnels, airports and energy production facilities call for tough products that can stand the test of time. Cablofil's latest innovation in surface treatment, EZ+, has been proven to live up to the challenge.

EZ+ is an additional organic finish applied over standard electrozinc plated steel wire cable trays, offering a durable surface treatment for temporary external installations during the construction phase.

In addition to Cablofil's unique rounded wires and T-welded safety edges, the EZ+ coating provides a smooth, consistent surface which further reduces the risk of damage to both the cables and the installer.



## EZ-Path®...

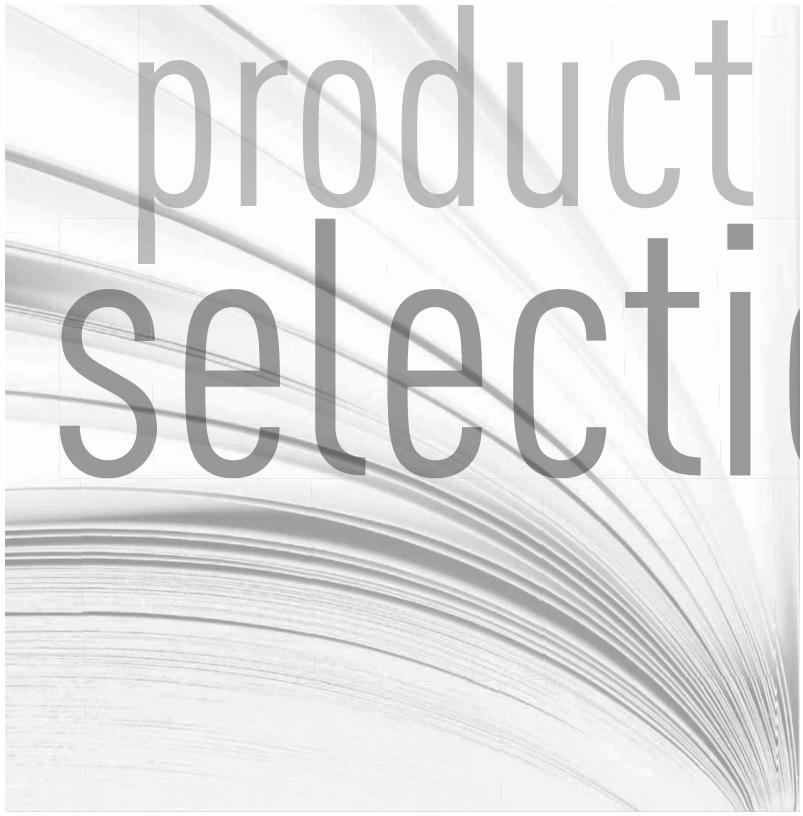
EZ-Path is a mechanical device that provides fully compliant fire stopping for power and data cable management pathways.

It's easy to fit and/or retrofit and does not require a specialist fire contractor for system maintenance or upgrades.

Pre-fitted with the optimum amount of intumescent material to stop fire and smoke whether it's filled with cables or completely empty, EZ-Path is the perfect partner to Cablofil steel wire cable tray, Swifts cable ladder and Swifts perforated cable tray.

Find out more about EZ-Path at www.legrand.co.uk




product
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# PRODUCT SELECTION


STRAIGHT LENGTHS / DIVIDERS / COVERS

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# Cablofil®
**key to finishes and symbols**

## ■ Key to finishes

| Symbol | Description |
|---|---|
| GS | Pre-galvanised |
| EZ | Electrogalvanising after manufacture |
| EZ+ | Organically coated electrogalvanised after manufacture |
| GC | Hot dip galvanised after manufacture |
| DC | Geomet® |
| 304L | Stainless steel 304 L |
| 316L | Stainless steel 316 L |
| Z+ | Continuous galvanisation before manufacture |

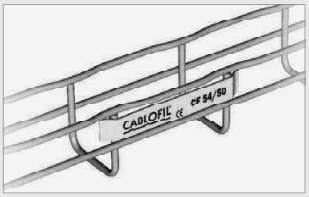
For detailed information related to finishes, refer to **p. 116-117**

## ■ Recommended finishes for different enviroments

| ❍ Recommended<br>◆ Possible | GS | EZ | EZ+ | GC | DC | 304L | 316L |
|---|---|---|---|---|---|---|---|
| Internal installation, normal environment | ❍ | ❍ | | | | | |
| External installation, urban environment | ◆ | ◆ | ◆ | ❍ | ❍ | | |
| Temporary external installation during construction phase | ◆ | ◆ | ❍ | | | | |
| Chemical industries, nitrate explosives, photography, decoration | | | | ◆ | ◆ | | ❍ |
| Marine, harsh, sulphurous (weak concentration) environments | | | | ◆ | ◆ | | ❍ |
| Acid or alkaline environments | | ◆ | | ◆ | ◆ | ❍ | ◆ |
| Food production environment | | | | | ❍ | ❍ | |
| Halogen environment | | | | | | ◆ | ❍ |

Typical atmospheric environments in relation to suitability of finishes

## ■ Colour code identification

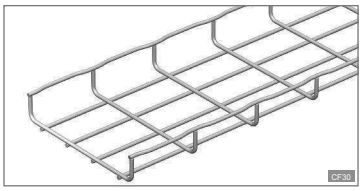



The surface treatment can be indentified by a colour coded clip
Each colour corresponds with a particular finish, i.e. yellow clip = EZ

## ■ Key to symbols

| Symbol | Description |
|---|---|
| | Fixing without nuts and bolts |
| | Fixing with nuts and bolts |
| | Fast assembling |
| | Patented fast assembling system (FAS) |
| | Patented |
| | Patented safety edge |
| P1500 | Supports at 1·5 m span |
| P2000 | Supports at 2·0 m span |
| W | Width |
| L | Length |
| H | Height |
| F | Practical safety load in daN |
| | Coupling |

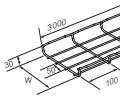
## straight lengths – CF30




Loading graphs **p. 38**
Dimensions and technical information **p. 38**

**NOTE : please use Cat. No. when placing your order**

| Pack | Cat. Nos. EZ | Cat. Nos. GC | CF30 – straight lengths (3 m) ↓ 30 mm ↔ 50 mm → 600 mm ⟷ 3 m | Width (mm) |
|---|---|---|---|---|
| 1 | CM000011 | CM000013 | CF30/50[1] | 50 |
| 1 | CM000021 | CM000023 | CF30/100 | 100 |
| 1 | CM000031 | CM000033 | CF30/150 | 150 |
| 1 | CM000041 | CM000043 | CF30/200 | 200 |
| 1 | CM000051 | CM000053 | CF30/300 | 300 |
| 1 | CM000801 | – | CF30/400 | 400 |
| 1 | CM000831 | – | CF30/450 | 450 |
| 1 | CM000811 | – | CF30/500 | 500 |
| 1 | CM000851 | – | CF30/600 | 600 |




| Pack | Cat. Nos. 304L | Cat. Nos. 316L | CF 30 stainless steel – straight lengths (3 m) ↓ 30 mm ↔ 50 mm → 300 mm ⟷ 3 m | Width (mm) |
|---|---|---|---|---|
| 1 | CM000018 | CM000014 | CF30/50[1] | 50 |
| 1 | CM000028 | CM000024 | CF30/100 | 100 |
| 1 | CM000038 | CM000034 | CF30/150 | 150 |
| 1 | CM000048 | CM000044 | CF30/200 | 200 |
| 1 | CM000058 | CM000054 | CF30/300 | 300 |

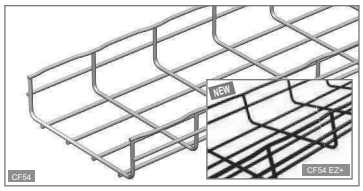
1 : = No safety edge

**Key :**
- EZ Electrogalvanising after manufacture
- EZ+ Organically coated electrogalvanised after manufacture
- GC Hot dip galvanised after manufacture
- 304L Stainless steel 304L
- 316L Stainless steel 316L

For detailed information related to finishes, refer to **p. 116-117**

All dimensions (mm) are nominal

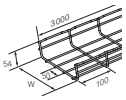
## straight lengths – CF54




Loading graphs **p. 39**
Dimensions and technical information **p. 39**

**NOTE : please use Cat. No. when placing your order**

| Pack | Cat. Nos. EZ | Cat. Nos. GC | CF54 – straight lengths (3 m) ↓ 54 mm ↔ 50 mm → 600 mm ⟷ 3 m | Width (mm) |
|---|---|---|---|---|
| 1 | CM000061 | CM000063 | CF54/50 | 50 |
| 1 | CM000071 | CM000073 | CF54/100 | 100 |
| 1 | CM000081 | CM000083 | CF54/150 | 150 |
| 1 | CM000091 | CM000093 | CF54/200 | 200 |
| 1 | CM000101 | CM000103 | CF54/300 | 300 |
| 1 | CM000201 | CM000203 | CF54/400 | 400 |
| 1 | CM000251 | CM000253 | CF54/450 | 450 |
| 1 | CM000301 | CM000303 | CF54/500 | 500 |
| 1 | CM000401 | CM000403 | CF54/600 | 600 |




| Pack | Cat. Nos. 304L | Cat. Nos. 316L | CF54 stainless steel – straight lengths (3 m) ↓ 54 mm ↔ 50 mm → 600 mm ⟷ 3 m | Width (mm) |
|---|---|---|---|---|
| 1 | CM000068 | CM000064 | CF54/50 | 50 |
| 1 | CM000078 | CM000074 | CF54/100 | 100 |
| 1 | CM000088 | CM000084 | CF54/150 | 150 |
| 1 | CM000098 | CM000094 | CF54/200 | 200 |
| 1 | CM000108 | CM000104 | CF54/300 | 300 |
| 1 | CM000208 | CM000204 | CF54/400 | 400 |
| 1 | CM000258 | CM000254 | CF54/450 | 450 |
| 1 | CM000308 | CM000304 | CF54/500 | 500 |
| 1 | CM000408 | CM000404 | CF54/600 | 600 |

| Pack | Cat. Nos. NEW EZ+ | CF54 EZ+ – straight lengths (3 m) ↓ 54 mm ↔ 50 mm → 600 mm ⟷ 3 m Colour : black | Width (mm) |
|---|---|---|---|
| 1 | CM000062 | CF54/50 | 50 |
| 1 | CM000072 | CF54/100 | 100 |
| 1 | CM000082 | CF54/150 | 150 |
| 1 | CM000092 | CF54/200 | 200 |
| 1 | CM000102 | CF54/300 | 300 |
| 1 | CM000202 | CF54/400 | 400 |
| 1 | CM000252 | CF54/450 | 450 |
| 1 | CM000302 | CF54/500 | 500 |
| 1 | CM000402 | CF54/600 | 600 |

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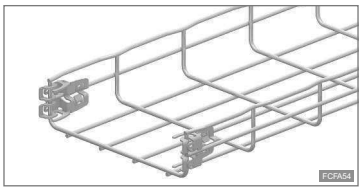
## straight lengths – FCFA54 (FASCLIC AUTO)

NEW




Loading graphs **p. 40**
Dimensions and technical information **p. 40**

**NOTE : please use Cat. No. when placing your order**

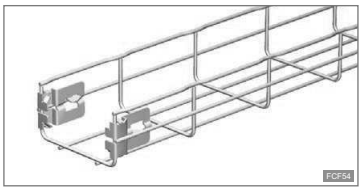
**FCFA54 – straight lengths (3 m)**

**54 mm 50 mm → 600 mm 3 m**

| Pack | Cat. Nos. EZ | Cat. Nos. GC | | Width (mm) |
|---|---|---|---|---|
| 1 | CM082061 | - | FCFA54/50 | 50 |
| 1 | CM082071 | - | FCFA54/100 | 100 |
| 1 | CM082081 | - | FCFA54/150 | 150 |
| 1 | CM082091 | - | FCFA54/200 | 200 |
| 1 | CM082101 | - | FCFA54/300 | 300 |
| 1 | CM082201 | - | FCFA54/400 | 400 |
| 1 | CM082251 | - | FCFA54/450 | 450 |
| 1 | CM082301 | - | FCFA54/500 | 500 |
| 1 | CM082401 | - | FCFA54/600 | 600 |




## straight lengths – FCF54 (FASCLIC)



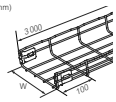

Loading graphs **p. 41**
Dimensions and technical information **p. 41**

**NOTE : please use Cat. No. when placing your order**

**FCF54 stainless steel – straight lengths (3 m)**

**54 mm 50 mm → 300 mm 3 m**

| Pack | Cat. Nos. 304L | Cat. Nos. 316L | | Width (mm) |
|---|---|---|---|---|
| 1 | CM081068 | CM081064 | FCF54/50 | 50 |
| 1 | CM081078 | CM081074 | FCF54/100 | 100 |
| 1 | CM081088 | CM081084 | FCF54/150 | 150 |
| 1 | CM081098 | CM081094 | FCF54/200 | 200 |
| 1 | – | CM081104 | FCF54/300 | 300 |




**Key :** EZ Electrogalvanising after manufacture

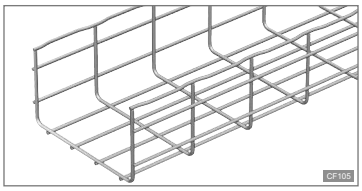
304L Stainless steel 304L

316L Stainless steel 316L

For detailed information related to finishes, refer to **p. 116-117**

All dimensions (mm) are nominal

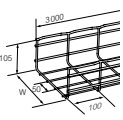
## straight lengths – CF105




Loading graphs **p. 42**
Dimensions and technical information **p. 42**

**NOTE : please use Cat. No. when placing your order**

| Pack | Cat. Nos. | | CF105 – straight lengths (3 m) | Width (mm) |
|---|---|---|---|---|
| | EZ | GC | 105 mm → 100 mm → 600 mm → 3 m | |
| 1 | CM000891 | CM000893 | CF105/100 | 100 |
| 1 | CM000901 | CM000903 | CF105/150 | 150 |
| 1 | CM000911 | CM000913 | CF105/200 | 200 |
| 1 | CM000921 | CM000923 | CF105/300 | 300 |
| 1 | CM000931 | CM000933 | CF105/400 | 400 |
| 1 | CM001931 | CM001933 | CF105/450 | 450 |
| 1 | CM000941 | CM000943 | CF105/500 | 500 |
| 1 | CM001031 | CM001033 | CF105/600 | 600 |




| Pack | | | CF105 stainless steel – straight lengths (3 m) | Width (mm) |
|---|---|---|---|---|
| | 304L | 316L | 105 mm → 100 mm → 600 mm → 3 m | |
| 1 | CM000898 | CM000894 | CF105/100 | 100 |
| 1 | CM000908 | CM000904 | CF105/150 | 150 |
| 1 | CM000918 | CM000914 | CF105/200 | 200 |
| 1 | CM000928 | CM000924 | CF105/300 | 300 |
| 1 | CM000938 | CM000934 | CF105/400 | 400 |
| 1 | CM001938 | CM001934 | CF105/450 | 450 |
| 1 | CM000948 | CM000944 | CF105/500 | 500 |
| 1 | CM001038 | CM001034 | CF105/600 | 600 |

## straight lengths – CF80 - CF150



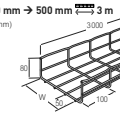




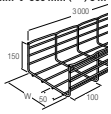
Loading graphs **p. 43**
Dimensions and technical information **p. 43**

**NOTE : please use Cat. No. when placing your order**

| Pack | Cat. Nos. | | CF80 – straight lengths (3 m) | Width (mm) |
|---|---|---|---|---|
| | EZ | GC | 80 mm → 100 mm → 500 mm → 3 m | |
| 1 | CM800101 | CM800103 | CF80/100 | 100 |
| 1 | CM800201 | CM800203 | CF80/200 | 200 |
| 1 | CM800301 | CM800303 | CF80/300 | 300 |
| 1 | CM800401 | CM800403 | CF80/400 | 400 |
| 1 | CM800501 | CM800503 | CF80/500 | 500 |




| Pack | Cat. Nos. | | CF150 – straight lengths (3 m) | Width (mm) |
|---|---|---|---|---|
| | EZ | GC | 150 mm → 200 mm → 500 mm → 3 m | |
| 1 | CM000951 | CM000953 | CF150/200 | 200 |
| 1 | CM000961 | CM000963 | CF150/300 | 300 |
| 1 | CM000971 | CM000973 | CF150/400 | 400 |
| 1 | CM001011 | CM001013 | CF150/450 | 450 |
| 1 | CM001021 | CM001023 | CF150/500 | 500 |

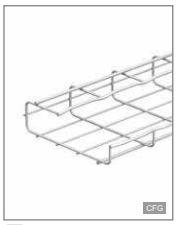



**Key :**
- EZ – Electrogalvanising after manufacture
- GC – Hot dip galvanised after manufacture
- 304L – Stainless steel 304L
- 316L – Stainless steel 316L

For detailed information related to finishes, refer to **p. 116-117**

All dimensions (mm) are nominal

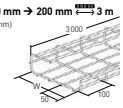
## straight lengths – CFG




Dimensions and technical information **p. 44**

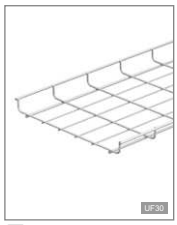
**NOTE : please use Cat. No. when placing your order**

| Pack | Cat. Nos. | | CFG – straight lengths (3 m) | Width (mm) |
|---|---|---|---|---|
| | EZ | GC | 50 mm ↕ 100 mm → 200 mm ⟷ 3 m | |
| 1 | CM003221 | CM003223 | CFG50/100 | 100 |
| 1 | CM003231 | CM003233 | CFG50/150 | 150 |
| 1 | CM003241 | CM003243 | CFG50/200 | 200 |




## straight lengths – UF30

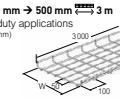
**for underfloor, light duty applications**




Dimensions and technical information **p. 44**

**NOTE : please use Cat. No. when placing your order**

| Pack | Cat. Nos. | | UF30 – straight lengths (3 m) | Width (mm) |
|---|---|---|---|---|
| | EZ | GC | 30 mm ↕ 300 mm → 500 mm ⟷ 3 m<br>For underfloor, light duty applications | |
| 1 | CM430161 | – | UF30/300 | 300 |
| 1 | CM430181 | – | UF30/400 | 400 |
| 1 | CM430201 | – | UF30/500 | 500 |



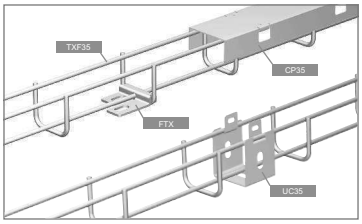

**Key :** EZ Electrogalvanising after manufacture

GC Hot dip galvanised after manufacture

For detailed information related to finishes, refer to **p. 116-117**

All dimensions (mm) are nominal

## mini steel wire cable tray – TXF35



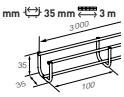

Dimensions and technical information **p. 45**

**NOTE : please use Cat. No. when placing your order**

| Pack | Cat. Nos. | | | |
|---|---|---|---|---|
| 1 | EZ CM755001 | GC CM755003 | 304L CM755008 | 316L CM755004 |

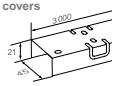
**TXF35 – straight lengths (3 m)**

35 mm | 35 mm | 3 m




| Pack | Cat. Nos. | | |
|---|---|---|---|
| 1 | GS CM755100 | GC CM755103 | 316L CM755104 |

**CP35 – covers**




| Pack | Cat. Nos. | | |
|---|---|---|---|
| 1 | GS CM586160 | GC CM586163 | 316L CM586164 |

**UC35 – base fixing plates**

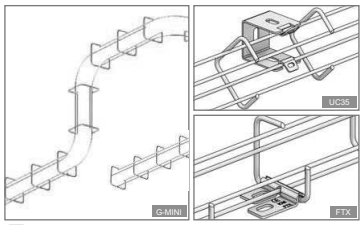



| Pack | Cat. Nos. | | |
|---|---|---|---|
| 1 | GS CM586180 | DC CM586183 | 316L CM586184 |

**FTX – base fixing plates**




## flexible steel wire cable tray – G-MINI



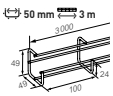

Dimensions and technical information **p. 45**

**NOTE : please use Cat. No. when placing your order**

| Pack | Cat. Nos. | | |
|---|---|---|---|
| 1 | EZ CM430111 | GC - | 316L CM430114 |

**G-MINI – straight lengths (3 m)**

50 mm | 50 mm | 3 m




| Pack | Cat. Nos. | | |
|---|---|---|---|
| 1 | GS CM586160 | GC CM586163 | 316L CM586164 |

**UC35 – base fixing plates**




| Pack | Cat. Nos. | | |
|---|---|---|---|
| 1 | GS CM586180 | DC CM586183 | 316L CM586184 |

**FTX – base fixing plates**



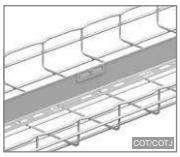

**Key :**

- EZ Electrogalvanising after manufacture
- GS Pre-galvanised
- GC Hot dip galvanised after manufacture
- 304L Stainless steel 304L
- 316L Stainless steel 316L

For detailed information related to finishes, refer to **p. 116-117**

All dimensions (mm) are nominal

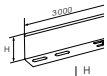
## straight length dividers – COT / COT J



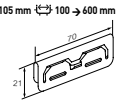

Dimensions and technical information **p. 46**

**NOTE : please use Cat. No. when placing your order**

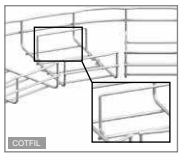
| Pack | Cat. Nos. | | | COT – dividers (3 m) 30 → 105 mm 100 → 600 mm | H mm |
|---|---|---|---|---|---|
| | GS | GC | 316L | | |
| | | | | For tray depth 30 mm (CF30) | |
| 1 | CM923010 | CM923013 | CM923014 | COT30 | 24 |
| | | | | For tray depth 54 mm (CF54) | |
| 1 | CM923020 | CM923023 | CM923024 | COT50 | 48 |
| | | | | For tray depth 80 mm (CF80) | |
| 1 | CM923030 | CM923033 | – | COT75 | 72 |
| | | | | For tray depth 105 mm (CF105) | |
| 1 | CM923040 | CM923043 | CM923044 | COT100 | 96 |




| Pack | Cat. Nos. | | | COT J – divider connectors 30 → 105 mm 100 → 600 mm |
|---|---|---|---|---|
| | GS | GC | 316L | |
| 1 | CM923050 | - | CM923054 | |




## bend dividers – COTFIL




Dimensions and technical information **p. 46**

**NOTE : please use Cat. No. when placing your order**

| Pack | Cat. Nos. | | | COTFIL – bend dividers 30 → 105 mm 100 → 600 mm | H mm |
|---|---|---|---|---|---|
| | EZ | GC | 304L | | |
| | | | | For tray depth 30 mm (CF30) | |
| 1 | CM586711 | – | CM586718 | COTFIL30 | 24 |
| | | | | For tray depth 54 mm (CF54) | |
| 1 | CM586721 | – | CM586728 | COTFIL50 | 44 |
| | | | | For tray depth 80 mm (CF80) | |
| 1 | CM586731 | – | CM586738 | COTFIL75 | 71 |
| | | | | For tray depth 105 mm (CF105) | |
| 1 | CM586741 | – | CM586748 | COTFIL100 | 94 |



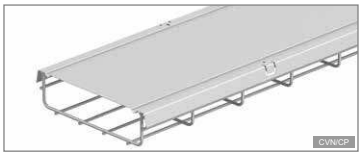

**Key :**

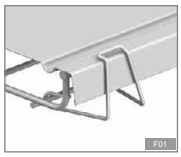
- EZ Electrogalvanising after manufacture
- GS Pre-galvanised
- GC Hot dip galvanised after manufacture
- 304L Stainless steel 304L
- 316L Stainless steel 316L

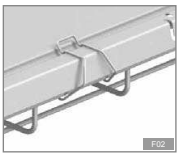
For detailed information related to finishes, refer to **p. 116-117**

All dimensions (mm) are nominal

# covers and clips – CVN - CP - F01 - F02 - F03



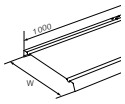

Dimensions and technical information **p. 47**

**NOTE : please use Cat. No. when placing your order**

## CVN – covers

30 → 105 mm 50 → 600 mm 1 m
Supplied in packs of 3 x 1 m lengths

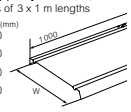
| Pack | Cat. Nos. GS | Cat. Nos. GC | | Width (mm) |
|---|---|---|---|---|
| 1 | CM629050 | CM629053 | CVN50 | 50 |
| 1 | CM629100 | CM629103 | CVN100 | 100 |
| 1 | CM629150 | CM629153 | CVN150 | 150 |
| 1 | CM629200 | CM629203 | CVN200 | 200 |
| 1 | CM629300 | CM629303 | CVN300 | 300 |
| 1 | CM629400 | CM629403 | CVN400 | 400 |
| 1 | CM629450 | CM629453 | CVN450 | 450 |
| 1 | CM629500 | CM629503 | CVN500 | 500 |
| 1 | CM629600 | CM629603 | CVN600 | 600 |




## CVN stainless steel – covers

30 → 105 mm 50 → 200 mm 1 m
Supplied in packs of 3 x 1 m lengths

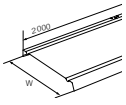
| Pack | Cat. Nos. 304L | Cat. Nos. 316L | | Width (mm) |
|---|---|---|---|---|
| 1 | CM629058 | CM629054 | CVN50 | 50 |
| 1 | CM629108 | CM629104 | CVN100 | 100 |
| 1 | – | CM629154 | CVN150 | 150 |
| 1 | – | CM629204 | CVN200 | 200 |




## CP – covers

30 → 105 mm 50 → 600 mm 2 m
Supplied in packs of 1 x 2 m lengths

| Pack | Cat. Nos. GS | Cat. Nos. GC | | Width (mm) |
|---|---|---|---|---|
| 1 | CM646010 | CM646013 | CP50 | 50 |
| 1 | CM646020 | CM646023 | CP100 | 100 |
| 1 | CM646030 | CM646033 | CP150 | 150 |
| 1 | CM646040 | CM646043 | CP200 | 200 |
| 1 | CM646050 | CM646053 | CP300 | 300 |
| 1 | CM646060 | CM646063 | CP400 | 400 |
| 1 | CM646090 | CM646093 | CP450 | 450 |
| 1 | CM646070 | CM646073 | CP500 | 500 |
| 1 | CM646080 | CM646083 | CP600 | 600 |

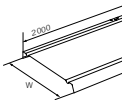



**NOTE : please use Cat. No. when placing your order**

## CP stainless steel – covers

30 → 105 mm 50 → 600 mm 2 m
Supplied in packs of 1 x 2 m lengths

| Pack | Cat. Nos. 304L | Cat. Nos. 316L | | Width (mm) |
|---|---|---|---|---|
| 1 | – | CM646014 | CP50 | 50 |
| 1 | - | CM646024 | CP100 | 100 |
| 1 | - | CM646034 | CP150 | 150 |
| 1 | - | CM646044 | CP200 | 200 |
| 1 | - | CM646054 | CP300 | 300 |
| 1 | - | CM646064 | CP400 | 400 |
| 1 | - | CM646094 | CP450 | 450 |
| 1 | - | CM646074 | CP500 | 500 |
| 1 | - | CM646084 | CP600 | 600 |




## F01 – cover clip

For 30 mm tray (CF30)

| Pack | Cat. Nos. GS | Cat. Nos. 316L |
|---|---|---|
| 25 | CM646220 | CM646224 |



## F02 – cover clip

For 54 mm tray (CF54) and 105 mm tray (CF105)

| Pack | Cat. Nos. GS | Cat. Nos. 316L |
|---|---|---|
| 25 | CM646200 | CM646204 |



## F03 – cover clip

For 80 mm tray (CF80)

| Pack | Cat. Nos. GS | Cat. Nos. 316L |
|---|---|---|
| 25 | CM646210 | – |

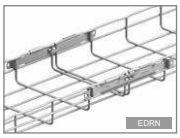


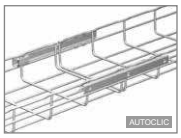
**Key :**
- GS Pre-galvanised
- GC Hot dip galvanised after manufacture
- 304L Stainless steel 304L
- 316L Stainless steel 316L

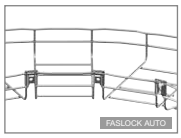
For detailed information related to finishes, refer to **p. 116-117**

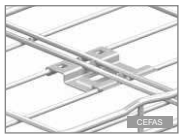
All dimensions (mm) are nominal

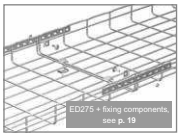
# couplers and connectors – EDRN - AUTOCLIC - ED275/1100 - FASLOCK AUTO - CEFAS - R15/25/35


EDRN


AUTOCLIC


FASLOCK AUTO


CEFAS


ED275 + fixing components, see **p. 19**


R15/25/35 – wall mounting

Dimensions and technical information **p. 48-51**

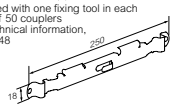
**NOTE : please use Cat. No. when placing your order**

| Pack | Cat. Nos. | | |
|---|---|---|---|
| | EZ | DC | |
| 50 | CM558241 | CM558247 | |
| | 304L | 316L | |
| 50 | - | CM558244 | |

### EDRN – couplers

**30 → 150 mm 50 → 600 mm**

Supplied with one fixing tool in each pack of 50 couplers
For technical information, see p. 48

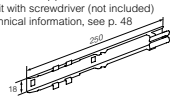



| Pack | Cat. Nos. | | |
|---|---|---|---|
| | GS | GC | |
| 50 | CM558280 | CM558283 | |
| | 304L | 316L | |
| 50 | CM558288 | CM558284 | |

### AUTOCLIC – couplers

**54 / 105 mm 50 → 600 mm**

Rapid fit with screwdriver (not included)
For technical information, see p. 48

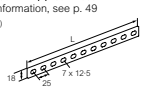



| Pack | Cat. Nos. | | | | |
|---|---|---|---|---|---|
| | EZ | GC | | L (mm) | |
| 50 | CM558221 | CM558223 | ED275 | 275 | |
| | 304L | 316L | | | |
| 1 | CM558228 | CM558224 | ED275 | 275 | |

### ED275 – joint strips

**54 / 105 / 150 mm 50 → 600 mm**

For technical information, see p. 49

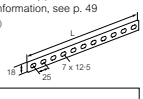



| Pack | Cat. Nos. | | | | |
|---|---|---|---|---|---|
| | EZ | GC | | L (mm) | |
| 1 | CM558201 | CM558203 | ED1100 | 1100 | |
| | 304L | 316L | | | |
| 1 | - | CM558204 | ED1100 | 1100 | |

### ED1100 – joint strips

**54 / 105 / 150 mm 50 → 600 mm**

For technical information, see p. 49




**Key :**

| | | | |
|---|---|---|---|
| EZ | Electrogalvanising after manufacture | DC | Geomet |
| GS | Pre-galvanised | 304L | Stainless steel 304L |
| GC | Hot dip galvanised after manufacture | 316L | Stainless steel 316L |
| Zn | Continuous galvanisation before manufacture | For detailed information related to finishes, refer to **p. 116-117** | |

**NOTE : please use Cat. No. when placing your order**

| Pack | Cat. Nos. | | |
|---|---|---|---|
| | EZ | DC | |
| 25 | CM558340 | CM558347 | |
| 25 | CM558320 | CM558327 | |
| | 304L | 316L | |
| 25 | - | CM558344 | |
| 25 | - | CM558324 | |

### FASLOCK AUTO – connectors

**30 → 150 mm 100 → 600 mm**

For technical information, see p. 49

FASLOCK S **100 → 200 mm**
FASLOCK XL **300 → 600 mm**



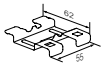
FASLOCK S **100 → 200 mm**
FASLOCK XL **300 → 600 mm**

| Pack | Cat. Nos. | | |
|---|---|---|---|
| | GS | DC | |
| 50 | CM558410 | CM558417 | |
| | 304L | 316L | |
| 50 | - | CM558414 | |

### CEFAS – base couplers

**30 → 150 mm 100 → 600 mm**

For technical information, see p. 50




| Pack | Cat. Nos. | | | | | |
|---|---|---|---|---|---|---|
| | GS | Zn | | H mm | daN | |
| 1 | CM586170 | CM586173 | R15/100 | 15 | 100 | |
| 1 | CM586610 | CM586617 | R15/300 | 15 | 100 | |
| 1 | CM586640 | CM586647 | R25 | 25 | 100 | |
| 1 | CM586650 | CM586657 | R35 | 35 | | |
| | 304L | 316L | | | | |
| 1 | – | CM586174 | R15/100 | 15 | 100 | |

### R15 / R25 / R35 – stand-off brackets

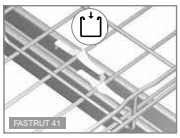
**30 → 105 mm 100 → 600 mm**

For technical information, see p. 50




All dimensions (mm) are nominal

## channel strut clips – FASTRUT 41 / CE40
## fixing components – CE25/CE30





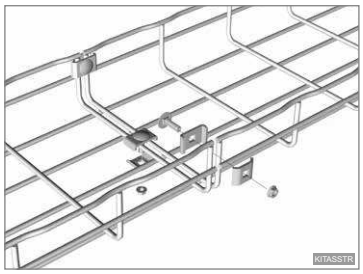


Dimensions and technical information **p. 48-51**

**NOTE : please use Cat. No. when placing your order**

| Pack | Cat. Nos. | | |
|---|---|---|---|
| | DC | 316L | |
| **FASTRUT 41 – channel strut clip** | | | |
| | | | **30 / 54 / 105 mm 100 → 600 mm** |
| 50 | CM599007 | CM599004 | Use to secure steel wire cable tray to channel section or channel type cantilever arms<br>For technical information, see p. 51 |
| **CE40 – hold down clamps** | | | |
| | | | **30 → 150mm 100 → 600 mm** |
| | | | For technical information, see p. 69 |
| | EZ | DC | |
| 25 | CM558051 | CM558053 | 100 |
| | 304L | 316L | |
| 25 | CM558058 | CM558054 | 100 |
| **CE25 / CE30 – fixing components** | | | |
| | EZ | DC | **30 → 150 mm 50 → 600 mm** |
| 100 | CM801011 | CM801017 | BTRCC 6 x 20 |
| 50 | CM558011 | CM558013 | CE25 |
| 50 | CM558041 | CM558043 | CE30 |
| **CE25 / CE30 stainless steel – fixing components** | | | |
| | 304L | 316L | **30 → 150 mm 50 → 600 mm** |
| 100 | CM801018 | CM801014 | BTRCC 6 x 20 |
| 50 | CM558018 | CM558014 | CE25 |
| 50 | CM558048 | CM558044 | CE30 |

## fixing kits – KITS




Dimensions and technical information **p. 51**

**NOTE : please use Cat. No. when placing your order**

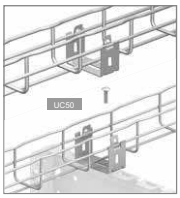
| Pack | Cat. Nos. | | |
|---|---|---|---|
| | EZ | DC | |
| **KITS – fixing kits** | | | |
| | | | **30 → 150 mm 50 → 600 mm** |
| 50 | CM558081 | CM558087 | **KITASSTR**<br>CE25+CE30+BTRCC 6 x 20<br>Kits comprise large clamp plate, small clamp plate, M6 nut and M6 x 20 coach bolt |
| 50 | CM558071 | CM558077 | **KITASSVS**<br>CE25VS+CE30ES<br>Kits comprise large clamp plate with integrated nut and small clamp plate with integrated bolt |
| 50 | CM558091 | - | **KITFIXTR**<br>CE25+BTRCC 6 X 20<br>Kits comprise small clamp plate, M6 nut and M6 x 20 coach bolt |
| 50 | CM558061 | - | **KITFIXVS**<br>CE25VS+EEC6<br>Kits comprise small clamp plate with M6 nut and integrated bolt |
| | 304L | 316L | |
| **KITS – stainless steel fixing kits** | | | |
| | | | **30 → 150 mm 50 → 600 mm** |
| 50 | - | CM558954 | **KITINOX stainless steel**<br>CE25VS+CE30+EEC6<br>Kits comprise large clamp plate, small clamp plate with integrated bolt and M6 nut |
| 100 | - | CM558084 | **KITASSTR stainless steel**<br>CE25+CE30+BTRCC 6 x 20<br>Kits comprise large clamp plate, small clamp plate, M6 nut and M6 x 20 coach bolt |

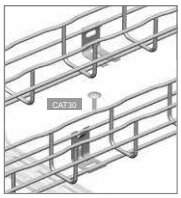
**Key :**
- EZ Electrogalvanising after manufacture
- GC Hot dip galvanised after manufacture
- DC Geomet
- 304L Stainless steel 304L
- 316L Stainless steel 316L

For detailed information related to finishes, refer to **p. 116-117**

All dimensions (mm) are nominal

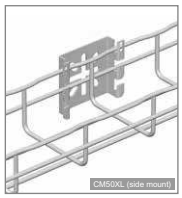
# wall mounting – UC50 - CAT30 - CAT40 - CM50 - CM50XL

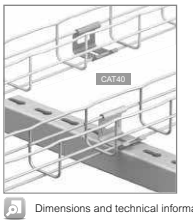


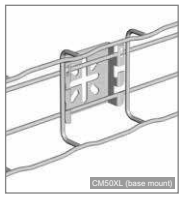










Dimensions and technical information **p. 52-55**

**NOTE : please use Cat. No. when placing your order**

| Pack | Cat. Nos. | | |
|---|---|---|---|
| | GS | GC | |
| 1 | CM586040 | CM586043 | 12 |
| | 304L | 316L | |
| 1 | CM586048 | CM586044 | 12 |

## UC50 – support cradles

**30 → 54 mm 50 mm**

For technical information, see p. 52

FL daN




| Pack | Cat. Nos. | | |
|---|---|---|---|
| | GS | DC | |
| 1 | CM586050 | CM586057 | 20 |
| | 304L | 316L | |
| 1 | CM586058 | CM586054 | 20 |

## CAT30 – cantilever arm fixing plates

**30 → 54 mm 50 mm**

For technical information, see p. 53

FL daN




| Pack | Cat. Nos. | | |
|---|---|---|---|
| | GS | DC | |
| 1 | CM586190 | CM586197 | 20 |
| | 304L | 316L | |
| 1 | – | CM586194 | 20 |

## CAT40 – channel fixing plates

**30 → 54 mm 50 mm**

For technical information, see p. 54

FL daN




**Key :**

- GS Pre-galvanised
- GC Hot dip galvanised after manufacture
- DC Geomet
- 304L Stainless steel 304L
- 316L Stainless steel 316L

For detailed information related to finishes, refer to **p. 116-117**

All dimensions (mm) are nominal

**NOTE : please use Cat. No. when placing your order**

| Pack | Cat. Nos. | | |
|---|---|---|---|
| | GS | GC | |
| 1 | CM586060 | CM586063 | |
| | 304L | 316L | |
| 1 | CM586068 | CM586064 | |

## CM50 – universal mounting plates (small)

**54 mm 50 mm**

For technical information, see p. 55



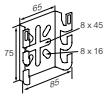

| Pack | Cat. Nos. | | |
|---|---|---|---|
| | GS | GC | |
| 1 | CM586130 | CM586133 | |
| | 304L | 316L | |
| 1 | CM586138 | CM586134 | |

## CM50XL – universal mounting plates (large)

**54 → 80 mm 50 → 100 mm (side wire mounting)**

**30 → 105 mm 100 → 600 mm (base wire mounting)**

For technical information, see p. 55



# wall mounting – CSN - CSNC



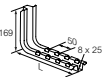

Dimensions and technical information **p. 56-57**

**NOTE : please use Cat. No. when placing your order**

## CSN – profile cantilever arms

**30 → 54 mm 100 → 450 mm**
For technical information, see p. 56

| Pack | Cat. Nos. GS | Cat. Nos. GC | | L mm | F daN |
|---|---|---|---|---|---|
| 1 | CM556100 | CM556103 | CSN100 | 178 | 30 |
| 1 | CM556110 | CM556113 | CSN150 | 228 | 110 |
| 1 | CM556120 | CM556123 | CSN200 | 278 | 85 |
| 1 | CM556130 | CM556133 | CSN300 | 378 | 73 |
| 1 | CM556140 | CM556143 | CSN400 | 478 | 56 |
| 1 | CM556150 | CM556153 | CSN450 | 528 | 50 |
| | 304L | 316L | | | |
| 1 | CM556108 | CM556104 | CSN100 | 178 | 30 |
| 1 | CM556118 | CM556114 | CSN150 | 228 | 110 |
| 1 | CM556128 | CM556124 | CSN200 | 278 | 85 |
| 1 | CM556138 | CM556134 | CSN300 | 378 | 73 |







**NOTE : please use Cat. No. when placing your order**

## CSNC – profile roof cantilever arms

**30 → 54 mm 100 → 450 mm**
For technical information, see p. 57

| Pack | Cat. Nos. GS | Cat. Nos. GC | | L1 mm | L2 mm | F daN |
|---|---|---|---|---|---|---|
| 1 | CM556300 | CM556303 | CSNC100 | 170 | 178 | 120 |
| 1 | CM556310 | CM556313 | CSNC150 | 170 | 228 | 100 |
| 1 | CM556320 | CM556323 | CSNC200 | 170 | 278 | 80 |
| 1 | CM556330 | CM556333 | CSNC300 | 288 | 378 | 70 |
| 1 | CM556340 | CM556343 | CSNC400 | 288 | 478 | 48 |
| 1 | CM556350 | CM556353 | CSNC450 | 288 | 528 | 44 |
| | 304L | 316L | | | | |
| 1 | - | CM556304 | CSNC100 | 170 | 178 | 120 |
| 1 | - | CM556314 | CSNC150 | 170 | 228 | 100 |
| 1 | - | CM556324 | CSNC200 | 170 | 278 | 80 |




## EPVCSN – end caps

| Pack | Cat. Nos. PVC | |
|---|---|---|
| 1 | CM559605 | For use with CSN and CSNC cantilever arms |



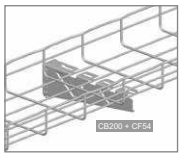
**Key :**

- GS Pre-galvanised
- GC Hot dip galvanised after manufacture
- 304L Stainless steel 304L
- 316L Stainless steel 316L

For detailed information related to finishes, refer to **p. 116-117**

All dimensions (mm) are nominal

# wall mounting – CB - CU







Dimensions and technical information **p. 58-61**

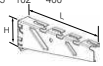
**NOTE : please use Cat. No. when placing your order**

## CB – compact cantilever arms for universal mounting

**30 → 150 mm 50 → 400 mm**

For technical information, including safe working load, see p. 58-59

| Pack | Cat. Nos. GS | Cat. Nos. GC | Cat. Nos. 316L | | L mm | H mm | For tray widths mm |
|---|---|---|---|---|---|---|---|
| 1 | CM350800 | CM350803 | CM350804 | CB50 | 81 | 71 | 50 |
| 1 | CM350810 | CM350813 | CM350814 | CB100 | 131 | 71 | 100 |
| 1 | CM350820 | CM350823 | CM350824 | CB150 | 181 | 75 | 150 |
| 1 | CM350830 | CM350833 | CM350834 | CB200/250 | 231 | 75 | 200/250 |
| 1 | CM350840 | CM350843 | CM350844 | CB300 | 335 | 88 | 300 |
| 1 | CM350850 | CM350853 | CM350854 | CB400 | 435 | 102 | 400 |



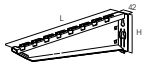

**NOTE : please use Cat. No. when placing your order**

## CU – cantilever arms for universal mounting

**30 → 150 mm 500 → 600 mm**

For technical information, see p. 60-61

| Pack | Cat. Nos. GS | Cat. Nos. GC | Cat. Nos. 316L | | L mm | H mm | daN | daN | For tray widths mm |
|---|---|---|---|---|---|---|---|---|---|
| 1 | CM557460 | CM557463 | CM557464 | CU500 | 557 | 138 | 220 | 160 | 500 |
| 1 | CM557470 | CM557473 | CM557474 | CU600 | 657 | 138 | 200 | 145 | 600 |



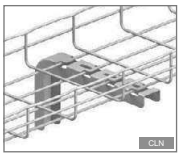

**Key :**

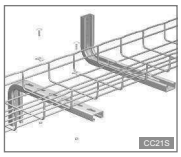
- GS Pre-galvanised
- GC Hot dip galvanised after manufacture
- 316L Stainless steel 316L

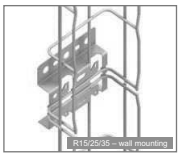
For detailed information related to finishes, refer to **p. 116-117**

All dimensions (mm) are nominal

# wall mounting – CLN - CC21S - R15/25/35 - R55 - FV1

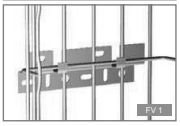








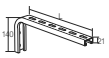

Dimensions and technical information **p. 62-64**

**NOTE : please use Cat. No. when placing your order**

| Pack | Cat. Nos. GS | Cat. Nos. GC | | L mm | H mm | daN |
|---|---|---|---|---|---|---|
| **CLN – cantilever arms** 30 → 54 mm 100 → 300 mm For technical information, see p. 62 | | | | | | |
| 1 | CM556200 | CM556203 | CLN100 | 100 | 125 | 95 |
| 1 | CM556210 | CM556213 | CLN150 | 150 | 125 | 70 |
| 1 | CM556220 | CM556223 | CLN200 | 200 | 125 | 40 |
| 1 | CM556230 | CM556233 | CLN300 | 300 | 125 | 25 |

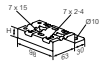



| Pack | Cat. Nos. GS | Cat. Nos. 316L | | L mm | daN |
|---|---|---|---|---|---|
| **CC21S – cantilever arms** 30 → 105 mm 100 → 400 mm For technical information, see p. 62 | | | | | |
| 1 | CM557860 | CM557864 | CC21S 150 | 150 | 135 |
| 1 | CM557870 | CM557874 | CC21S 200 | 200 | 108 |
| 1 | CM557880 | CM557884 | CC21S 300 | 300 | 80 |
| 1 | CM557890 | CM557894 | CC21S 400 | 400 | 92 |

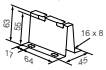



**NOTE : please use Cat. No. when placing your order**

| Pack | Cat. Nos. GS | Cat. Nos. Z+ | Cat. Nos. 316L | | H mm | daN |
|---|---|---|---|---|---|---|
| **R15 / R25 / R35 – stand-off brackets** 30 → 105 mm 100 → 600 mm For technical information, see p. 63 | | | | | | |
| 1 | CM586170 | CM586173 | CM586174 | R15/100 | 15 | 100 |
| 1 | CM586610 | CM586617 | - | R15/300 | 15 | 100 |
| 1 | CM586640 | CM586647 | - | R25 | 25 | 100 |
| 1 | CM586650 | CM586657 | - | R35 | 35 | 50 |




| Pack | Cat. Nos. GS | Cat. Nos. Z+ | Cat. Nos. 316L | H mm | daN |
|---|---|---|---|---|---|
| **R55 – stand-off brackets** 30 → 105 mm 100 → 600 mm For technical information, see p. 63 | | | | | |
| 1 | CM586080 | CM586083 | CM586084 | 55 | 45 |




| Pack | Cat. Nos. GS | Cat. Nos. DC | Cat. Nos. 316L | daN |
|---|---|---|---|---|
| **FV1 – mounting brackets** 30 → 105 mm 100 → 600 mm For technical information, see p. 64 | | | | |
| 1 | CM586070 | CM586073 | CM586074 | 100 |

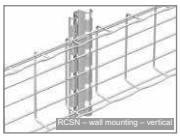



**Key :**
- GS Pre-galvanised
- GC Hot dip galvanised after manufacture
- Z+ Continuous galvanisation before manufacture
- 316L Stainless steel 316L
- DC Geomet

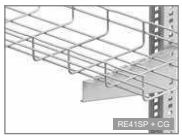
For detailed information related to finishes, refer to **p. 116-117**

All dimensions (mm) are nominal

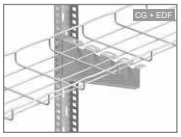
# wall mounting – RCSN - EDF - RE41SP - INTERFAS - CA


RCSN – wall mounting – vertical


RCSN – wall mounting – horizontal


RE41SP + CG


INTERFAS + CSN, see p. 21


CG + EDF

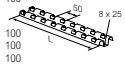
Dimensions and technical information **p. 56, 58-61, 65**

**NOTE : please use Cat. No. when placing your order**

## RCSN – fast fix support rails

**30 → 105 mm 100 → 600 mm**
For technical information, see p. 65

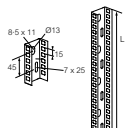
| Pack | Cat. Nos. GS | Cat. Nos. GC | | L mm | F daN |
|---|---|---|---|---|---|
| 1 | CM013150 | CM013153 | RCSN150 | 150 | 100 |
| 1 | CM013200 | CM013203 | RCSN200 | 200 | 100 |
| 1 | CM013300 | CM013303 | RCSN300 | 300 | 100 |
| 1 | CM013400 | CM013403 | RCSN400 | 400 | 100 |
| 1 | CM013500 | CM013503 | RCSN500 | 500 | 100 |
| 1 | CM013550 | CM013553 | RCSN550 | 550 | 100 |
| 1 | CM013600 | CM013603 | RCSN600 | 600 | 100 |
| 1 | CM013010 | CM013013 | RCSN1000 | 1000 | 100 |
| 1 | CM013020 | CM013023 | RCSN2000 | 2000 | 100 |
| 1 | CM013030 | CM013033 | RCSN3000 | 3000 | 100 |
| | 304L | 316L | | | |
| 1 | – | CM013154 | RCSN150 | 150 | 100 |
| 1 | – | CM013204 | RCSN200 | 200 | 100 |
| 1 | – | CM013304 | RCSN300 | 300 | 100 |
| 1 | – | CM013404 | RCSN400 | 400 | 100 |
| 1 | – | CM013504 | RCSN500 | 500 | 100 |
| 1 | – | – | RCSN550 | 550 | 100 |
| 1 | – | CM013604 | RCSN600 | 600 | 100 |
| 1 | – | CM013014 | RCSN1000 | 1000 | 100 |
| 1 | CM013028 | CM013024 | RCSN2000 | 2000 | 100 |
| 1 | CM013038 | CM013034 | RCSN3000 | 3000 | 100 |




## EDF – pendants / mounting rails

**30 → 150 mm 100 → 600 mm**
For technical information, see p. 60-61

| Pack | Cat. Nos. GS | Cat. Nos. GC | | L mm |
|---|---|---|---|---|
| 1 | CM557610 | CM557613 | EDF600 | 600 |
| 1 | CM561090 | CM561093 | EDF1000 | 1 000 |
| 1 | CM561010 | CM561013 | EDF2000 | 2 000 |
| 1 | CM561020 | CM561023 | EDF3000 | 3 000 |
| | 304L | 316L | | |
| 1 | CM561018 | CM561014 | EDF2000 | 2 000 |




## RE41SP – pendants / mounting rails (heavy duty)

**30 → 150 mm 100 → 600 mm**
For technical information, see p. 60-61

| Pack | Cat. Nos. GS | | L mm | F daN/m |
|---|---|---|---|---|
| 1 | CM595750 | RE41SP500 | 500 | 2 |
| 1 | CM595780 | RE41SP800 | 800 | 2 |
| 1 | CM595790 | RE41SP1000 | 1 000 | 2 |
| 1 | CM595700 | RE41SP3000 | 3 000 | 2 |




## INTERFAS – adaptor plates

Used for connecting CSN profile cantilever arms to channel length
For technical information, see p. 56

| Pack | Cat. Nos. GS | Cat. Nos. DC | 316L |
|---|---|---|---|
| 1 | CM557800 | CM557803 | – |



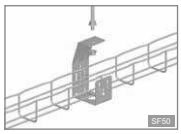

**Key :**

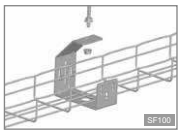
- EZ Electrogalvanising after manufacture
- GS Pre-galvanised
- GC Hot dip galvanised after manufacture
- DC Geomet
- 304L Stainless steel 304L
- 316L Stainless steel 316L

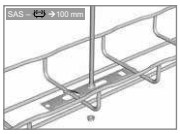
For detailed information related to finishes, refer to **p. 116-117**

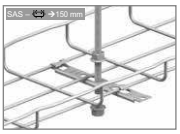
All dimensions (mm) are nominal

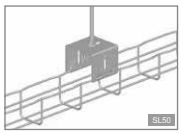
# ceiling mounting – SF50 - SF100 - SL50 - CEQ - UC50 - SAS - CE40 - CM50XL

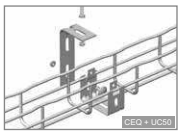


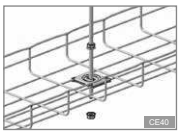















Dimensions and technical information **p. 66-69**

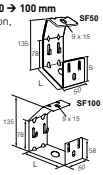
**NOTE : please use Cat. No. when placing your order**

## SF50 - SF100 – central hangers

**30 → 54 mm 50 → 100 mm**

For technical information, see p. 66

| Pack | Cat. Nos. GS | Cat. Nos. GC | | JF daN | L mm |
|---|---|---|---|---|---|
| 1 | CM586140 | CM586143 | SF50 | 30 | 73 |
| 1 | CM586100 | CM586103 | SF100 | 26 | 134 |
| | 304L | 316L | | | |
| 1 | - | CM586144 | SF50 | 30 | 73 |
| 1 | - | CM586104 | SF100 | 26 | 134 |




## SL50 – multifix base plate

**30 → 54 50 mm**

For technical information, see p. 66

| Pack | Cat. Nos. GS | H mm | JF daN |
|---|---|---|---|
| 1 | CM585180 | 56 | 150 |

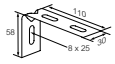



## CEQ – central hanger brackets

**30 → 54 mm 50 mm**

For technical information, see p. 67

| Pack | Cat. Nos. GS | Cat. Nos. GC | JF daN |
|---|---|---|---|
| 1 | CM557300 | CM557303 | 12 |
| | 304L | 316L | |
| 1 | - | CM557304 | 12 |

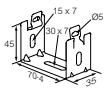



## UC50 – support cradles

**30 → 54 mm 50 mm**

For technical information, see p. 67

| Pack | Cat. Nos. GS | Cat. Nos. GC | JF daN |
|---|---|---|---|
| 1 | CM586040 | CM586043 | 12 |
| | 304L | 316L | |
| 1 | CM586048 | CM586044 | 12 |




**NOTE : please use Cat. No. when placing your order**

## SAS – suspension hangers

**30 → 54 mm 100 → 150 mm**

For technical information, see p. 68

| Pack | Cat. Nos. EZ | Cat. Nos. DC | JF daN |
|---|---|---|---|
| 1 | CM586031 | CM586037 | 60 |

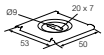



## CE40 – hold down clamps

**30 → 54 mm 100 → 200 mm**

For technical information, see p. 69

| Pack | Cat. Nos. EZ | Cat. Nos. DC | JF daN |
|---|---|---|---|
| 25 | CM558051 | CM558053 | 100 |
| | 304L | 316L | |
| 25 | CM558058 | CM558054 | 100 |

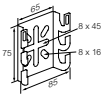



## CM50XL – universal mounting plates (large)

**30 → 54 mm 100 → 200 mm**

For technical information, see p. 69

| Pack | Cat. Nos. GS | Cat. Nos. GC | JF daN |
|---|---|---|---|
| 1 | CM586130 | CM586133 | 100 |
| | 304L | 316L | |
| 1 | CM586138 | CM586134 | 100 |



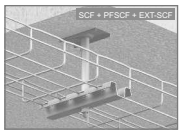

**Key :**

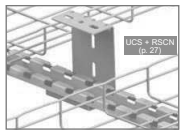
- EZ Electrogalvanising after manufacture
- GS Pre-galvanised
- GC Hot dip galvanised after manufacture
- DC Geomet
- 304L Stainless steel 304L
- 316L Stainless steel 316L

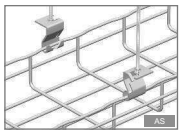
For detailed information related to finishes, refer to **p. 116-117**

All dimensions (mm) are nominal

# ceiling mounting – SCF - PFSCF - EXT-SCF - UCS - AS - CSNC










Dimensions and technical information **p. 70-73**

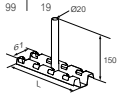
**NOTE : please use Cat. No. when placing your order**

## SCF – central hangers

**30 → 54 mm 200 → 600 mm**

For technical information, see p. 70

| Pack | Cat. Nos. GS | Cat. Nos. GC | | L mm | daN | daN |
|---|---|---|---|---|---|---|
| 1 | CM586200 | - | SCF200 | 194 | 200 | 37 |
| 1 | CM586300 | - | SCF300 | 294 | 160 | 29 |
| 1 | CM586400 | - | SCF400 | 394 | 141 | 23 |
| 1 | CM586450 | - | SCF450 | 444 | 130 | 20 |
| 1 | CM586500 | - | SCF500 | 494 | 121 | 20 |
| 1 | CM586600 | - | SCF600 | 594 | 99 | 19 |




## PFSCF – locating ceiling plate

**30 → 54 mm 200 → 600 mm**

For technical information, see p. 70

| Pack | Cat. Nos. GS | Cat. Nos. GC | L mm |
|---|---|---|---|
| 1 | CM586210 | - | 100 |




## EXT-SCF – rod sheaths

**30 → 54 mm 200 → 600 mm**

For technical information, see p. 70

| Pack | Cat. Nos. GS | Cat. Nos. GC | | L mm | H mm |
|---|---|---|---|---|---|
| 1 | CM586810 | - | EXT-SCF 50 | 50 | 200 |
| 1 | CM586820 | - | EXT-SCF 100 | 100 | 250 |
| 1 | CM586830 | - | EXT-SCF 150 | 150 | 300 |
| 1 | CM586840 | - | EXT-SCF 325 | 325 | 475 |

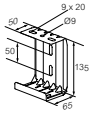



## UCS – ceiling support brackets

**30 → 54 mm 50 → 300 mm**

For technical information, see p. 71

| Pack | Cat. Nos. GS | Cat. Nos. GC | L mm | daN.m |
|---|---|---|---|---|
| 1 | CM586150 | CM586153 | 100 | 18 |
| | 304L | 316L | | |
| | - | CM586154 | 100 | 18 |




**Key :**

| | |
|---|---|
| GS | Pre-galvanised |
| GC | Hot dip galvanised after manufacture |
| DC | Geomet |
| 304L | Stainless steel 304L |
| 316L | Stainless steel 316L |

For detailed information related to finishes, refer to **p. 116-117**

All dimensions (mm) are nominal

**NOTE : please use Cat. No. when placing your order**

## AS – suspension hooks

**30 → 105 mm 100 → 600 mm**

For technical information, see p. 72

| Pack | Cat. Nos. GS | Cat. Nos. DC | F daN |
|---|---|---|---|
| 1 | CM586020 | CM586023 | 100 |
| | 304L | 316L | |
| 1 | - | CM586024 | 100 |




## CSNC – profile roof cantilever arms

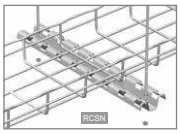
**30 → 105 mm 100 → 450 mm**

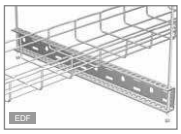
For technical information, see p. 73

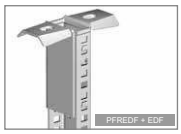
| Pack | Cat. Nos. GS | Cat. Nos. GC | | L1 mm | L2 mm | F daN |
|---|---|---|---|---|---|---|
| 1 | CM556300 | CM556303 | CSNC100 | 170 | 178 | 120 |
| 1 | CM556310 | CM556313 | CSNC150 | 170 | 228 | 100 |
| 1 | CM556320 | CM556323 | CSNC200 | 170 | 278 | 80 |
| 1 | CM556330 | CM556333 | CSNC300 | 288 | 378 | 70 |
| 1 | CM556340 | CM556343 | CSNC400 | 288 | 478 | 48 |
| 1 | CM556350 | CM556353 | CSNC450 | 288 | 528 | 44 |
| | 304L | 316L | | | | |
| 1 | - | CM556304 | CSNC100 | 170 | 178 | 120 |
| 1 | - | CM556314 | CSNC150 | 170 | 228 | 100 |
| 1 | - | CM556324 | CSNC200 | 170 | 278 | 80 |

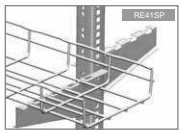


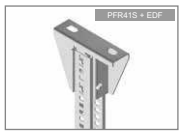
# ceiling mounting – RCSN - EDF - PFREDF - RE41SP - PFR41S




Dimensions and technical information **p. 71, 74-77**

**NOTE : please use Cat. No. when placing your order**

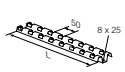
## RCSN – fast fix support rails

**30 → 105 mm 100 → 600 mm**

For trapeze mounting, add 100 mm to width of tray to order correct size support rail - e.g. for 100 mm tray order RCSN200 (Cat. Nos. CM013200 / 03 / 04)

For technical information, see p. 71, 74

| Pack | Cat. Nos. GS | Cat. Nos. GC | | L mm |
|---|---|---|---|---|
| 1 | CM013150 | CM013153 | RCSN150 | 150 |
| 1 | CM013200 | CM013203 | RCSN200 | 200 |
| 1 | CM013300 | CM013303 | RCSN300 | 300 |
| 1 | CM013400 | CM013403 | RCSN400 | 400 |
| 1 | CM013500 | CM013503 | RCSN500 | 500 |
| 1 | CM013550 | CM013553 | RCSN550 | 550 |
| 1 | CM013600 | CM013603 | RCSN600 | 600 |
| 1 | CM013010 | CM013013 | RCSN1000 | 1000 |
| 1 | CM013020 | CM013023 | RCSN2000 | 2000 |
| 1 | CM013030 | CM013033 | RCSN3000 | 3000 |
| | 304L | 316L | | |
| 1 | - | CM013154 | RCSN150 | 150 |
| 1 | - | CM013204 | RCSN200 | 200 |
| 1 | - | CM013304 | RCSN300 | 300 |
| 1 | - | CM013404 | RCSN400 | 400 |
| 1 | - | CM013504 | RCSN500 | 500 |
| 1 | - | - | RCSN550 | 550 |
| 1 | - | CM013604 | RCSN600 | 600 |
| 1 | - | CM013014 | RCSN1000 | 1000 |
| 1 | CM013028 | CM013024 | RCSN2000 | 2000 |
| 1 | CM013038 | CM013034 | RCSN3000 | 3000 |

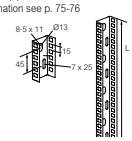



## EDF – profile pendants / mounting rails

**30 → 105 mm 100 → 600 mm**

For technical information see p. 75-76

| Pack | Cat. Nos. GS | Cat. Nos. GC | | L mm |
|---|---|---|---|---|
| 1 | CM561010 | CM561013 | EDF2000 | 2 000 |
| | 304L | 316L | | |
| 1 | CM561018 | CM561014 | EDF2000 | 2 000 |




**NOTE : please use Cat. No. when placing your order**

## PFREDF – pendant mounting plates

**30 → 105 mm 100 → 600 mm**

For technical information see p. 76

| Pack | Cat. Nos. GS | Cat. Nos. GC | | daN.m |
|---|---|---|---|---|
| 1 | CM561080 | - | | 18 |
| | 304L | 316L | | |
| 1 | - | CM561084 | | 18 |




## RE41SP – pendants / mounting rails (heavy duty)

**30 → 105 mm 100 → 600 mm**

For technical information see p. 77

| Pack | Cat. Nos. GS | | L mm | |
|---|---|---|---|---|
| 1 | CM595750 | RE41SP500 | 500 | 2 |
| 1 | CM595780 | RE41SP800 | 800 | 2 |
| 1 | CM595790 | RE41SP1000 | 1 000 | 2 |
| 1 | CM595700 | RE41SP3000 | 3 000 | 2 |




## PFR41S – pendant mounting plate (heavy duty)

**30 → 105 mm 100 → 600 mm**

For technical information see p. 77

| Pack | Cat. Nos. GS | | daN |
|---|---|---|---|
| 1 | CM595380 | | 45 |



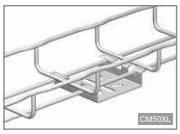

**Key :**

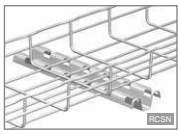
- GS Pre-galvanised
- GC Hot dip galvanised after manufacture
- 304L Stainless steel 304L
- 316L Stainless steel 316L

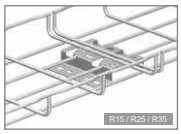
For detailed information related to finishes, refer to **p. 116-117**

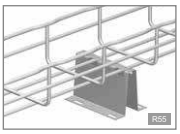
All dimensions (mm) are nominal

# floor mounting – CM50XL - RCSN - R15/25/35 - R55










Dimensions and technical information **p. 78-79, 82-83**

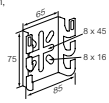
**NOTE : please use Cat. No. when placing your order**

| Pack | Cat. Nos. | | |
|---|---|---|---|
| | GS | GC | |
| 1 | CM586130 | CM586133 | |
| | 304L | 316L | |
| 1 | CM586138 | CM586134 | |

## CM50XL – universal mounting plates (large)

**30 → 150 mm 100 → 600 mm**

For technical information, see p. 78

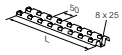



## RCSN – fast fix support rails

**30 → 150 mm 100 → 600 mm**

For technical information, see p. 78, 82-83

| | GS | GC | | L mm |
|---|---|---|---|---|
| 1 | CM013150 | CM013153 | RCSN150 | 150 |
| 1 | CM013200 | CM013203 | RCSN200 | 200 |
| 1 | CM013300 | CM013303 | RCSN300 | 300 |
| 1 | CM013400 | CM013403 | RCSN400 | 400 |
| 1 | CM013500 | CM013503 | RCSN500 | 500 |
| 1 | CM013550 | CM013553 | RCSN550 | 550 |
| 1 | CM013600 | CM013603 | RCSN600 | 600 |
| 1 | CM013010 | CM013013 | RCSN1000 | 1000 |
| 1 | CM013020 | CM013023 | RCSN2000 | 2000 |
| 1 | CM013030 | CM013033 | RCSN3000 | 3000 |
| | 304L | 316L | | |
| 1 | - | CM013154 | RCSN150 | 150 |
| 1 | - | CM013204 | RCSN200 | 200 |
| 1 | - | CM013304 | RCSN300 | 300 |
| 1 | - | CM013404 | RCSN400 | 400 |
| 1 | - | CM013504 | RCSN500 | 500 |
| 1 | - | - | RCSN550 | 550 |
| 1 | - | CM013604 | RCSN600 | 600 |
| 1 | - | CM013014 | RCSN1000 | 1000 |
| 1 | CM013028 | CM013024 | RCSN2000 | 2000 |
| 1 | CM013038 | CM013034 | RCSN3000 | 3000 |



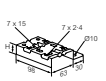

**NOTE : please use Cat. No. when placing your order**

| Pack | Cat. Nos. | | | | H mm |
|---|---|---|---|---|---|
| | GS | Zn | 316L | | |
| 1 | CM586170 | CM586173 | CM586174 | R15/100 | 15 |
| 1 | CM586610 | CM586617 | - | R15/300 | 15 |
| 1 | CM586640 | CM586647 | - | R25 | 25 |
| 1 | CM586650 | CM586657 | - | R35 | 35 |

## R15 / R25 / R35 – stand-off brackets

**30 → 105 mm 100 → 600 mm**

For technical information, see p. 79

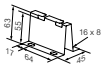



| Pack | Cat. Nos. | | | H mm |
|---|---|---|---|---|
| | GS | Zn | 316L | |
| 1 | CM586080 | CM586083 | CM586084 | 55 |

## R55 – stand-off brackets

**30 → 150 mm 100 → 600 mm**

For technical information, see p. 79




**Key :**

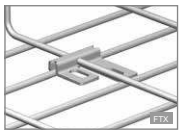
- GS Pre-galavanised
- GC Hot dip galvanised after manufacture
- Zn Continuous galvanisation before manufacture
- 304L Stainless steel 304L
- 316L Stainless steel 316L

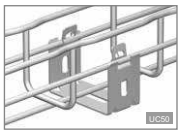
For detailed information related to finishes, refer to **p. 116-117**

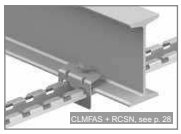
All dimensions (mm) are nominal

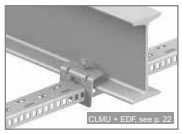
## floor mounting – FTX – UC50 – UFC

## beam mounting - CLMFAS – CLMU – EF



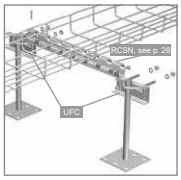



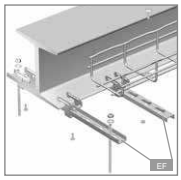










Dimensions and technical information **p. 80-85**

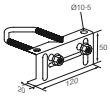
**NOTE : please use Cat. No. when placing your order**

| Pack | Cat. Nos. | |
|---|---|---|
| | | **FTX – base fixing plates** |
| | | **30/54/105 mm 35 → 600 mm** |
| | | For technical information see p. 80 |
| 1 | GS CM586180 \| DC CM586183 \| 316L CM586184 | |
| | | **UC50 – support cradles** |
| | | **30 → 54 mm 50 mm** |
| | | For technical information see p. 80 |
| 1 | GS CM586040 \| DC CM586043 | Fl daN 12 |
| 1 | 304L CM586048 \| 316L CM586044 | 12 |
| | | **UFC – clamp unit** |
| | | **30 → 105 mm 100 → 600 mm** |
| | | For technical information see p. 81-82 |
| 1 | GS CM559220 | |





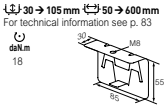


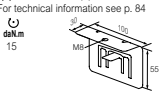


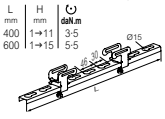

Dimensions and technical information **p. 83-85**

**NOTE : please use Cat. No. when placing your order**

| Pack | Cat. Nos. | |
|---|---|---|
| | | **Beam clamps** |
| | | **CLMFAS – beam clamps** |
| | | **30 → 105 mm 50 → 600 mm** |
| | | For technical information see p. 83 |
| 1 | GS CM559280 \| Z+ CM559287 \| 316L CM559284 | daN.m 18 |
| | | **CLMU – beam clamps** |
| | | **30 → 105 mm 50 → 600 mm** |
| | | For technical information see p. 84 |
| 1 | GS CM559090 \| Z+ CM559097 \| 316L – | daN.m 15 |
| | | **EF – adjustable beam clamps** |
| | | **30 → 54 mm 100 → 300 mm** |
| | | For technical information see p. 85 |
| 1 | EZ CM559201 | L mm 400 / 600 \| H mm 1→11 / 1→15 \| daN.m 3·5 / 5·5 |
| 1 | CM559211 | |



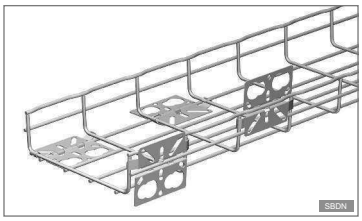

**Key :**

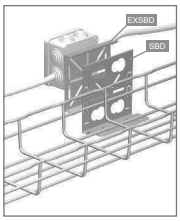
- EZ Electrogalvanising after manufacture
- GS Pre-galvanised
- GC Hot dip galvanised after manufacture
- DC Geomet
- 304L Stainless steel 304L
- 316L Stainless steel 316L
- Z+ Continuous galvanisation before manufacture

For detailed information related to finishes, refer to **p. 116-117**

All dimensions (mm) are nominal

# other mounting - take-off plates - SBDN – SBD – EXSBD

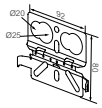



Dimensions and technical information **p. 86**

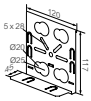
**NOTE : please use Cat. No. when placing your order**

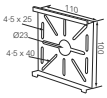
| Pack | Cat. Nos. | Take-off plates |
|---|---|---|
| 1 | GS CM585410 \| Z+ CM585417 | **SBDN – universal conduit take-off plates**<br>**30 → 150 mm 50 → 600 mm**<br>For technical information see p. 86 |




**NOTE : please use Cat. No. when placing your order**

| Pack | Cat. Nos. | Take-off plates (continued) |
|---|---|---|
| 1 | GS CM585110 \| 316L CM585114 | **SBD – conduit take-off plate**<br>**30 → 150 mm 50 → 600 mm**<br>To be used with conduit take-off plate – EXSBD<br>For technical information, see p. 86 |
| 1 | GS CM585130 \| 316L - | **EXSBD – switch box take-off plate - side**<br>**30 → 150 mm 50 → 600 mm**<br>To be used with switch box take-off plate – SBD<br>For technical information, see p. 86 |



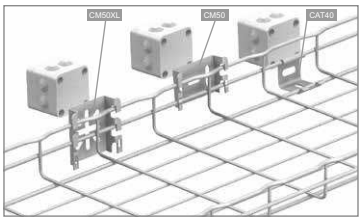



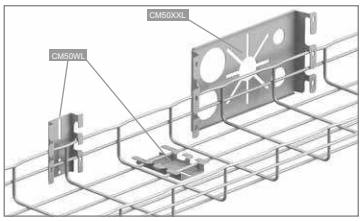

**Key :** GS Pre-galavanised; 316L Stainless steel 316L; Z+ Continuous galvanisation before manufacture

For detailed information related to finishes, refer to **p. 116-117**

All dimensions (mm) are nominal

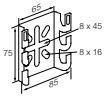
# other mounting - universal mounting plates - CM50 – CM50XL – CAT40 – CM50XXL – CM50WL



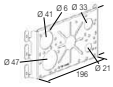




Dimensions and technical information **p. 87-88**

**NOTE : please use Cat. No. when placing your order**

| Pack | Cat. Nos. | Universal mounting plates |
|---|---|---|
| | | **CM50 – universal mounting plates (small)**<br>**30 / 54 / 105 mm**<br>**50 → 600 mm**<br>For technical information see p. 87 |
| 1 | GS CM586060 \| GC CM586063 |  |
| 1 | 304L CM586068 \| 316L CM586064 | |
| | | **CM50XL – universal mounting plates (large)**<br>**30 / 54 / 105 mm**<br>**50 → 600 mm**<br>For technical information see p. 87 |
| 1 | GS CM586130 \| GC CM586133 |  |
| 1 | 304L CM586138 \| 316L CM586134 | |
| | | **CAT40 – universal mounting plates**<br>**30 / 54 / 105 mm**<br>**50 → 600 mm**<br>For technical information see p. 87 |
| 1 | GS CM586190 \| DC CM586197 \| 316L CM586194 |  |

**NOTE : please use Cat. No. when placing your order**

| Pack | Cat. Nos. | Universal mounting plates (continued) |
|---|---|---|
| | | **CM50XXL – universal mounting plates (extra large)**<br>**30 → 105 50 → 600 mm**<br>For technical information see p. 88 |
| 1 | GS CM586250 \| DC CM586257 |  |
| | | **CM50WL – universal Wieland mounting plates**<br>**30 → 105 50 → 600 mm**<br>For technical information see p. 88 |
| 1 | GS CM586230 \| Zn CM586237 |  |

**Key :**

- GS Pre-galvanised
- GC Hot dip galvanised after manufacture
- Zn Continuous galvanisation before manufacture
- DC Geomet
- 304L Stainless steel 304L
- 316L Stainless steel 316L

All dimensions (mm) are nominal

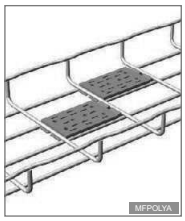
For detailed information related to finishes, refer to **p. 116-117**

# other mounting - luminaire supports - SL50 – SL100 – MFM – MFPOLYA










Dimensions and technical information **p. 89**

**NOTE : please use Cat. No. when placing your order**

| Pack | Cat. Nos. | | | Luminaire supports |
|---|---|---|---|---|
| | GS | GC | 316L | |
| | | | | **SL50 – luminaire support**<br>**30 → 54 50 mm**<br>For technical information see p. 89 |
| 1 | CM585180 | - | - | H mm 56 \| F daN 150 |
| | | | | **SL100 – luminaire support**<br>**30 → 105 100 → 600 mm**<br>For technical information see p. 89 |
| 1 | CM585190 | - | - | H mm 43 \| F daN 150 |
| | | | | **MFM – multifix base plates**<br>**30 → 150 100 → 600 mm**<br>For technical information see p. 89 |
| | GS | Z+ | 316L | L mm |
| 1 | CM585140 | CM585143 | CM585144 | MFM100 \| 100 |
| 1 | CM585150 | CM585153 | - | MFM150 \| 150 |

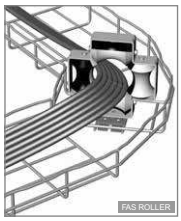
**NOTE : please use Cat. No. when placing your order**

| Pack | Cat. Nos. | Luminaire supports (continued) |
|---|---|---|
| | Polyamide | **MFPOLYA – multifix base plate**<br>**30 → 150 100 → 600 mm**<br>For technical information see p. 89 |
| 20 | CM585145 | |

| Key : | | | |
|---|---|---|---|
| | GS Pre-galavanised | 316L Stainless steel 316L | |
| | GC Hot dip galvanised after manufacture | | |
| | Z+ Continuous galvanisation before manufacture | For detailed information related to finishes, refer to **p. 116-117** | |

All dimensions (mm) are nominal

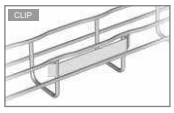
# cabling accessories - FAS ROLLER – DEV100 – CABLOGRIP – CLIP – PA

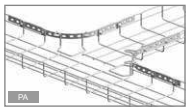









Dimensions and technical information **p. 90-92**

**NOTE : please use Cat. No. when placing your order**

| Pack | Cat. Nos. | | | Cabling accessories |
|---|---|---|---|---|
| | GS | GC | 316L | |
| 1 | CM011100 | - | - | **FAS ROLLER – cabling roller**<br>**30 → 150 50 → 600 mm**<br>For technical information see p. 90 |
| | GS | Zn | 316L | |
| 1 | CM585160 | CM585167 | CM585164 | **DEV100 – cable dropout plates**<br>**30 → 150 100 → 600 mm**<br>For technical information see p. 90 |
| 1 | CM559677 | | | **CABLOGRIP – cable grip**<br>**30 → 150 100 → 600 mm**<br>For technical information see p. 91<br>L mm 5 000 |

**NOTE : please use Cat. No. when placing your order**

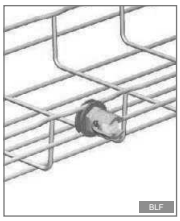
| Pack | Cat. Nos. | Cabling accessories (continued) |
|---|---|---|
| | KAS | **CLIP – indentification tags**<br>**30 → 150 50 → 600 mm**<br>For technical information see p. 91 |
| 50 | CM559157 | CLIPJ |
| 50 | CM559167 | CLIPV |
| 50 | CM559177 | CLIPB |
| 50 | CM559147 | CLIPO |
| 50 | CM559197 | CLIPG |
| 50 | CM559117 | CLIPP |
| 50 | CM559187 | CLIPR |
| 50 | CM559137 | CLIPW |
| 50 | CM559127 | CLIPN |
| | EZ / GC | **PA – radius support**<br>**30 / 54 / 105 50 → 600 mm**<br>For technical information see p. 92 |
| 1 | CM840101 / CM840103 | H mm 30 PA1 |
| 1 | CM840111 / CM840113 | 54 PA2 |
| 1 | CM840131 / CM840133 | 105 PA4 |

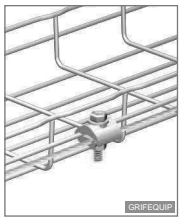
**Key :**
- EZ Electrogalvanising after manufacture
- GS Pre-galvanised
- GC Hot dip galvanised after manufacture
- Zn Continuous galvanisation before manufacture
- 316L Stainless steel 316L
- KAS Plastic

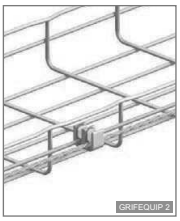
For detailed information related to finishes, refer to **p. 116-117**

All dimensions (mm) are nominal

# earthing - BLF – GRIFEQUIP – GRIFEQUIP 2




Dimensions and technical information **p. 92-93**

**NOTE : please use Cat. No. when placing your order**

| Pack | Cat. Nos. | Earth conductor clamps |
|---|---|---|
| | | **BLF – earth conductor clamp (copper)** |
| | | **30 → 150 50 → 600 mm** |
| | | For technical information see p. 92 |
| | CU | L mm / Ø mm² |
| 1 | CM585387 | BLF 8/16 22 16 |
| 1 | CM585397 | BLF 8/35 24 35 |
| 1 | CM585407 | BLF 8/50 26 50 |




**NOTE : please use Cat. No. when placing your order**

| Pack | Cat. Nos. | Earth conductor clamps (continued) |
|---|---|---|
| | | **GRIFEQUIP – earth conductor clamp (aluminium)** |
| | | **30 / 54 / 105 50 → 600 mm** |
| | | For technical information see p. 93 |
| | AL | |
| 1 | CM585327 | |
| | | **GRIFEQUIP 2 – vertical clamp (aluminium)** |
| | | **30 / 54 / 105 50 → 600 mm** |
| | | For technical information see p. 93 |
| | AL | |
| 1 | CM585427 | |





**Key :** AL Aluminium CU Copper

For detailed information related to finishes, refer to **p. 116-117**

All dimensions (mm) are nominal

# fixings and fasteners + tools


BTRCC


BTRL


EEC


Threaded rods


Flat washers


Hexagon nuts


CUTYFIL


COUPEFILGM

**NOTE : please use Cat. No. when placing your order**

| Pack | Cat. Nos. | | Fixings and fasteners | |
|---|---|---|---|---|
| | | | **BTRCC** | |
| | EZ | DC | | Diameter |
| 100 | CM801001 | CM801007 | BTRCC 6 x 12 | 6 Ø |
| 100 | CM801011 | CM801017 | BTRCC 6 x 20 | 6 Ø |
| 100 | CM801021 | CM801027 | BTRCC 6 x 30 | 6 Ø |
| | 304L | 316L | | |
| 100 | CM801008 | CM801004 | BTRCC 6 x 12 | 6 Ø |
| 100 | CM801018 | CM801014 | BTRCC 6 x 20 | 6 Ø |
| | | | **BTRL** | |
| | EZ | | | Diameter |
| 100 | CM801111 | | BTRL 8 x 15 | 8 Ø |
| | | | **EEC – shouldered hexagon nuts** | |
| | EZ | 316L | | Diameter |
| 100 | CM801201 | CM801204 | EEC6 | 6 Ø |
| 100 | CM801211 | - | EEC8 | 8 Ø |
| | | | **Threaded rod** | |
| | | | Electroplated zinc | |
| | | | Size | |
| 3 m | TR06 | | M6 x 3 m | |
| 3 m | TR08 | | M8 x 3 m | |
| 3 m | TR10 | | M10 x 3 m | |
| 3 m | TR12 | | M12 x 3 m | |
| | | | **Flat washers** | |
| | | | Electroplated zinc | |
| | | | Size | |
| 500 | FW06 | | M6 | |
| 500 | FW08 | | M8 | |
| 500 | FW10 | | M10 | |
| 200 | FW12 | | M12 | |
| | | | **Hexagon nuts** | |
| | | | Electroplated zinc | |
| | | | Size | |
| 500 | HN06 | | M6 | |
| 500 | HN08 | | M8 | |
| 200 | HN10 | | M10 | |
| 200 | HN12 | | M12 | |

**NOTE : please use Cat. No. when placing your order**

| Pack | Cat. Nos. | Cutting tools |
|---|---|---|
| | | **CUTYFIL** |
| 1 | CM559549 | Electric wire tray cutter<br>Supplied with rechargeable batteries |
| | | **COUPEFILGM – croppers** |
| 1 | CM559507 | Manual wire tray cutter<br>Length : 630 mm |
| | | **Mounting tool** |
| | EZ | **CLEEDR** |
| 5 | CM558260 | For EDRN couplers, see p. 18 |

**Key :**
- EZ Electrogalvanising after manufacture
- DC Geomet
- 304L Stainless steel 304L
- 316L Stainless steel 316L

For detailed information related to finishes, refer to **p. 116-117**

All dimensions (mm) are nominal



# technic
# specificati



## TECHNICAL SPECIFICATIONS


STRAIGHT LENGTHS / DIVIDERS / COVERS

| | |
|---|---|
| 30 mm deep tray (CF30) / 54 mm deep tray (CF54) | 38 - 39 |
| FASCLIC AUTO (FCFA54) / FASCLIC (FCF54) | 40 - 41 |
| 80 mm (CF80) / 105 mm (CF105) / 150 mm (CF150) deep tray | 42 - 43 |
| G-tray (CFG) / underfloor tray (UF30) | 44 |
| Mini tray (TXF35) / flexible tray (G-MINI) | 45 |
| Straight length dividers (COT) / bend dividers (COTFIL) | 46 |
| Covers (CVN / CP) / cover clips (F01/02/03) | 47 |

COUPLERS AND FIXING KITS

| | |
|---|---|
| Length to length couplers (EDRN / AUTOCLIC) | 48 |
| Joint strips (ED275 / ED1100) | 49 |
| Connectors (FASLOCK AUTO / FASTRUT 41) | 49 / 51 |
| Base couplers (CEFAS / R15/25/35) | 50 |
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WALL MOUNTING

| | |
|---|---|
| Base and side wire mounting (UC50 / CAT30 / CAT40 / CM50 CM50XL) | 52 - 55 |
| Cantilever arms / mounting rails (CSN / CSNC / CG / CB / CU / CLN / CC21S / EDF / RE41SP) | 56 - 62 |
| Stand-off brackets (R15/25/35/55) | 63 |
| Fast fix support rails (RCSN) | 65 |

CEILING MOUNTING

| | |
|---|---|
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| Trapeze hangers (AS / RCSN / EDF) | 71 - 75 |
| Profile mounting (CSNC) | 73 |
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FLOOR / BEAM / OTHER MOUNTING

| | |
|---|---|
| Floor mounting (CM50XL / RCSN / R15/25/35/55 / FTX / UC50 / UFC) | 78 - 82 |
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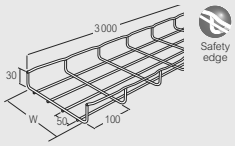
# straight lengths - CF30
**technical information**

## ■ Dimensions and weights

**30 mm** **50 mm** → **600 mm** **3 m**







| Cat. Nos. | W ⟷ mm | Weight (kg/3 m) EZ | GC | 304L | 316L |
|---|---|---|---|---|---|
| **CF30/50¹** | 50 | 1·19 | 1·23 | 1·15 | 1·15 |
| **CF30/100** | 100 | 1·61 | 1·67 | 1·56 | 1·56 |
| **CF30/150** | 150 | 2·05 | 2·13 | 1·99 | 1·99 |
| **CF30/200** | 200 | 2·84 | 2·95 | 2·76 | 2·76 |
| **CF30/300** | 300 | 4·39 | 4·56 | 4·09 | 4·09 |
| **CF30/400** | 400 | 6·85 | – | – | – |
| **CF30/450** | 450 | 7·33 | – | – | – |
| **CF30/500** | 500 | 7·82 | – | – | – |
| **CF30/600** | 600 | 8·78 | – | – | – |

1 : No safety edge

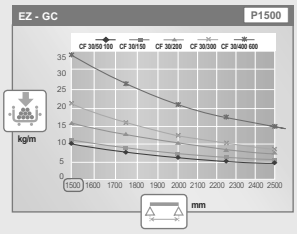
**Please use Cat. No. when placing your order, see p. 11**

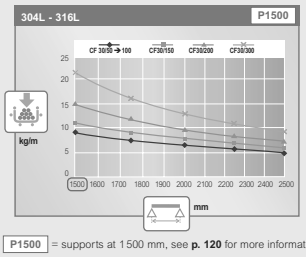
All weights are given in Kilograms (kg) and are for a 3 m straight length

## ■ Loading graphs

The permissable load stated in this catalogue represents the load that Cablofil steel wire cable tray is guaranteed to be able to bear. It assumes loads are evenly spread and is given in daN/m. The standard permits a deflection equivalent to 1/100th of the span. Legrand imposes a stricter limit of 1/200th for both safety and aesthetic reasons. For example, Legrand voluntarily restricts deflection to 10 mm for a span of 2 m, whereas the standard would allow 20 mm.

Load tests carried out to IEC 61537 (safety factor 1·7 + joint $^1/_5{}^{th}$ of the way along the span). Permissable load should include all cable loads and any other additional loads (eg: wind, snow)




P1500 = supports at 1 500 mm, see **p. 120** for more information

**NOTE:**
For more information on loadings, see **p. 125**

## ■ Finishes

**Standard stocked finish :**

EZ Electrogalvanising after manufacture

**Additional finishes :**

GC Hot dip galvanised after manufacture

304L Stainless steel 304L

316L Stainless steel 316L

For detailed information related to finishes, refer to **p. 116-117**

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

All dimensions (mm) are nominal

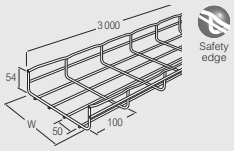
→ Couplers : see p. 48-51

→ Dividers : see p. 46

# straight lengths - CF54
**technical information**

## ■ Dimensions and weights

54 mm 50 mm → 600 mm 3 m







| Cat. Nos. | W ↔ mm | Weight (kg/3 m) EZ | EZ+ | GC | 304L | 316L |
|---|---|---|---|---|---|---|
| **CF54/50** | 50 | 1·89 | 1·97 | 1·97 | 1·84 | 1·84 |
| **CF54/100** | 100 | 2·33 | 2·42 | 2·42 | 2·26 | 2·26 |
| **CF54/150** | 150 | 3·13 | 3·25 | 3·25 | 2·69 | 2·69 |
| **CF54/200** | 200 | 4·07 | 4·23 | 4·23 | 3·50 | 3·50 |
| **CF54/300** | 300 | 6·13 | 6·37 | 6·37 | 5·14 | 5·14 |
| **CF54/400** | 400 | 9·15 | 9·51 | 9·51 | 7·92 | 7·92 |
| **CF54/450** | 450 | 9·79 | 10·17 | 10·17 | 8·49 | 8·49 |
| **CF54/500** | 500 | 10·42 | 10·83 | 10·83 | 9·06 | 9·06 |
| **CF54/600** | 600 | 11·69 | 12·15 | 12·15 | 10·20 | 10·20 |

**Please use Cat. No. when placing your order, see p. 11**

All weights are given in Kilograms (kg) and are for a 3 m straight length

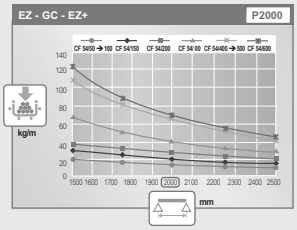
**Sheared steel (particularly stainless steel) does have relatively sharp edges and protective gloves must be worn during handling**

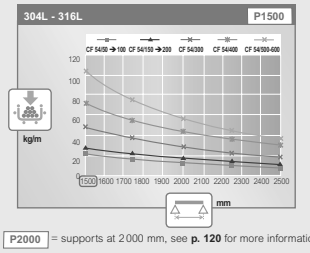
All dimensions (mm) are nominal

## ■ Loading graphs

The permissable load stated in this catalogue represents the load that Cablofil steel wire cable tray is guaranteed to be able to bear. It assumes loads are evenly spread and is given in daN/m. The standard permits a deflection equivalent to 1/100th of the span. Legrand imposes a stricter limit of 1/200th for both safety and aesthetic reasons. For example, Legrand voluntarily restricts deflection to 10 mm for a span of 2 m, whereas the standard would allow 20 mm.

Load tests carried out to IEC 61537 (safety factor 1·7 + joint 1/5th of the way along the span). Permissable load should include all cable loads and any other additional loads (eg: wind, snow)




P2000 = supports at 2 000 mm, see **p. 120** for more information

P1500 = supports at 1 500 mm, see **p. 120** for more information

**NOTE:**
For more information on loadings, see **p. 125**

## ■ Finishes

**Standard stocked finish :**

EZ Electrogalvanising after manufacture

**Additional finishes :**

EZ+ Organically coated electrogalvanised after manufacture

GC Hot dip galvanised after manufacture

304L Stainless steel 304L

316L Stainless steel 316L

For detailed information related to finishes, refer to **p. 116-117**

→ Couplers : see p. 48-51

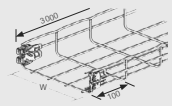
→ Dividers : see p. 46

# straight lengths - FCFA54 (FASCLIC AUTO)

**technical information**

## ■ Dimensions and weights

54 mm 50 mm → 600 mm 3 m




Safety edge




| Cat. Nos. | W mm | Weight (kg) EZ |
|---|---|---|
| **FCFA54/50** | 50 | 1·97 |
| **FCFA54/100** | 100 | 2·40 |
| **FCFA54/150** | 150 | 3·20 |
| **FCFA54/200** | 200 | 4·15 |
| **FCFA54/300** | 300 | 6·23 |
| **FCFA54/400** | 400 | 9·26 |
| **FCFA54/450** | 450 | 9·89 |
| **FCFA54/500** | 500 | 9·89 |
| **FCFA54/600** | 600 | 10·53 |

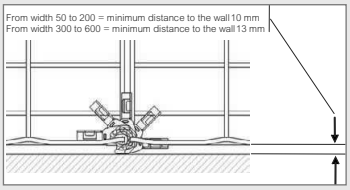
**Please use Cat. No. when placing your order, see p. 12**

All weights are given in Kilograms (kg) and are for a 3 m straight length

## ■ Assembly




Unclip integral couplers from delivery position. Slide base plate (if applicable) to accept secondary length. Clip coupler and base to secure
For 300 - 600 mm wide tray, additional base plates are supplied to aid connection (1 x for 300 mm, 2 x for 400 - 500 mm and 3 x for 600 mm tray)
If a length of FCFA is cut, the coupler and base plate can be removed and reattached




Patented | Fast assembling | Fixing without nuts and bolts

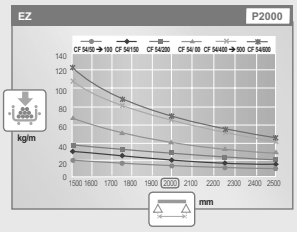
**Sheared steel (particularly stainless steel) does have relatively sharp edges and protective gloves must be worn during handling**

All dimensions (mm) are nominal

## ■ Loading graphs

The permissable load stated in this catalogue represents the load that Cablofil steel wire cable tray is guaranteed to be able to bear. It assumes loads are evenly spread and is given in daN/m. The standard permits a deflection equivalent to 1/100th of the span. Legrand imposes a stricter limit of 1/200th for both safety and aesthetic reasons. For example, Legrand voluntarily restricts deflection to 10 mm for a span of 2 m, whereas the standard would allow 20 mm.

Load tests carried out to IEC 61537 (safety factor 1·7 + joint 1/5 th of the way along the span). Permissable load should include all cable loads and any other additional loads (eg: wind, snow)




P2000 = supports at 2 000 mm, see **p. 120** for more information

**NOTE:**
For more information on loadings, see **p. 125**

## ■ Finishes

**Standard stocked finish :**

EZ Electrogalvanising after manufacture

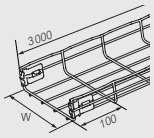
For detailed information related to finishes, refer to **p. 116-117**

→ Dividers : see p. 46

# straight lengths - FCF54 (FASCLIC)
**technical information**

## ■ Dimensions and weights

**54 mm** **50 mm → 300 mm** **3 m**







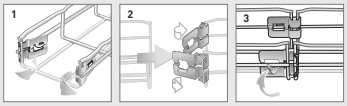



| Cat. Nos. | W mm | Weight (kg/3 m) 304L | 316L |
|---|---|---|---|
| **FCF54/50** | 50 | 2·03 | 2·03 |
| **FCF54/100** | 100 | 2·46 | 2·46 |
| **FCF54/150** | 150 | 3·46 | 3·46 |
| **FCF54/200** | 200 | 4·02 | 4·02 |
| **FCF54/300** | 300 | 5·34 | 5·34 |

**Please use Cat. No. when placing your order, see p. 12**

All weights are given in Kilograms (kg) and are for a 3 m straight length

## ■ Assembly




Unclip integral couplers from delivery position, offer secondary length and press couplers outwards. Bend tabs to secure using screwdriver
No additional fasteners required

Patented | Fast assembling | Fixing without nuts and bolts

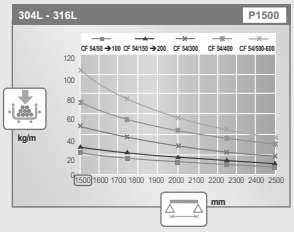
**Sheared steel (particularly stainless steel) does have relatively sharp edges and protective gloves must be worn during handling**

All dimensions (mm) are nominal

## ■ Loading graphs

The permissable load stated in this catalogue represents the load that Cablofil steel wire cable tray is guaranteed to be able to bear. It assumes loads are evenly spread and is given in daN/m. The standard permits a deflection equivalent to 1/100th of the span. Legrand imposes a stricter limit of 1/200th for both safety and aesthetic reasons. For example, Legrand voluntarily restricts deflection to 10 mm for a span of 2 m, whereas the standard would allow 20 mm.

Load tests carried out to IEC 61537 (safety factor 1·7 + joint 1/5th of the way along the span). Permissable load should include all cable loads and any other additional loads (eg: wind, snow)




P1500 = supports at 1 500 mm, see **p. 120** for more information

**NOTE:**
For more information on loadings, see **p. 125**

## ■ Finishes

**Available finishes :**

304L Stainless steel 304L

316L Stainless steel 316L

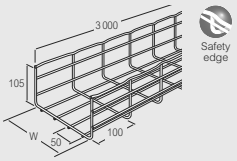
For detailed information related to finishes, refer to **p. 116-117**

→ Dividers : see p. 46

# straight lengths - CF105
**technical information**

## ■ Dimensions and weights

**105 mm 100 mm → 600 mm 3 m**







| Cat. Nos. | W ⟷ mm | Weight (kg/3 m) EZ | GC | 304L | 316L |
|---|---|---|---|---|---|
| **CF105/100** | 100 | 4·07 | 4·23 | 3·50 | 3·50 |
| **CF105/150** | 150 | 5·23 | 5·43 | 3·97 | 3·97 |
| **CF105/200** | 200 | 6·13 | 6·37 | 5·14 | 5·14 |
| **CF105/300** | 300 | 9·15 | 9·51 | 7·92 | 7·92 |
| **CF105/400** | 400 | 10·42 | 10·83 | 9·06 | 9·06 |
| **CF105/450** | 450 | 11·25 | 11·40 | 9·45 | 9·45 |
| **CF105/500** | 500 | 11·69 | 12·15 | 9·63 | 9·63 |
| **CF105/600** | 600 | 12·96 | 13·46 | 10·20 | 10·20 |

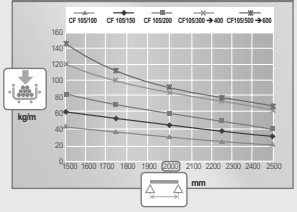
**Please use Cat. No. when placing your order, see p. 13**
All weights are given in Kilograms (kg) and are for a 3 m straight length

## ■ Loading graphs

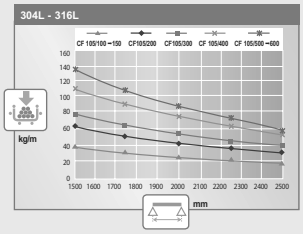
The permissable load stated in this catalogue represents the load that Cablofil steel wire cable tray is guaranteed to be able to bear. It assumes loads are evenly spread and is given in daN/m. The standard permits a deflection equivalent to 1/100th of the span. Legrand imposes a stricter limit of 1/200th for both safety and aesthetic reasons. For example, Legrand voluntarily restricts deflection to 10 mm for a span of 2 m, whereas the standard would allow 20 mm.

Load tests carried out to IEC 61537 (safety factor 1·7 + joint 1/6 th of the way along the span). Permissable load should include all cable loads and any other additional loads (eg: wind, snow)

**EZ - GC**




**304L - 316L**




**NOTE:**
For more information on loadings, see **p. 125**

## ■ Finishes

**Standard stocked finish :**

EZ Electrogalvanising after manufacture

**Additional finishes :**

GC Hot dip galvanised after manufacture

304L Stainless steel 304L

316L Stainless steel 316L

For detailed information related to finishes, refer to **p. 116-117**

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

All dimensions (mm) are nominal

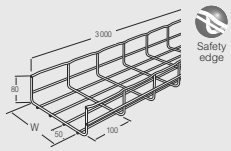
→ Couplers : see p. 48-51

→ Dividers : see p. 46

## straight lengths - CF80
**technical information**

### ■ Dimensions and weights

**80 mm → 100 mm → 500 mm → 3 m**




| Cat. Nos. | W mm | Weight (kg/3 m) EZ | GC |
|---|---|---|---|
| **CF80/100** | 100 | 2·84 | 2·95 |
| **CF80/200** | 200 | 4·39 | 4·56 |
| **CF80/300** | 300 | 6·85 | 7·12 |
| **CF80/400** | 400 | 7·82 | 8·12 |
| **CF80/500** | 500 | 8·78 | 9·12 |

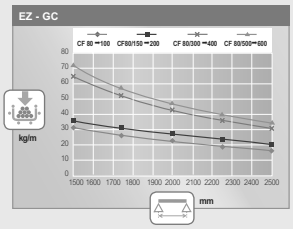
**Please use Cat. No. when placing your order, see p. 13**

All weights are given in Kilograms (kg) and are for a 3 m straight length

### ■ Loading graphs

The permissable load stated in this catalogue represents the load that Cablofil steel wire cable tray is guaranteed to be able to bear. It assumes loads are evenly spread and is given in daN/m. The standard permits a deflection equivalent to 1/100th of the span. Legrand imposes a stricter limit of 1/200th for both safety and aesthetic reasons. For example, Legrand voluntarily restricts deflection to 10 mm for a span of 2 m, whereas the standard would allow 20 mm.

Load tests carried out to IEC 61537 (safety factor 1·7 + joint $^1/_5{}^{th}$ of the way along the span). Permissable load should include all cable loads and any other additional loads (eg: wind, snow)




**NOTE:**
For more information on loadings, see **p. 125**

### ■ Finishes

**Available finishes :**

EZ Electrogalvanising after manufacture

GC Hot dip galvanised after manufacture

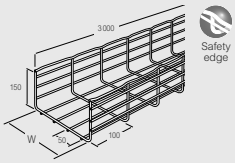
For detailed information related to finishes, refer to **p. 116-117**

All dimensions (mm) are nominal

## straight lengths - CF150
**technical information**

### ■ Dimensions and weights

**150 mm → 200 mm → 500 mm → 3 m**




| Cat. Nos. | W mm | Weight (kg/3 m) EZ | GC |
|---|---|---|---|
| **CF150/200** | 200 | 9·15 | 9·51 |
| **CF150/300** | 300 | 10·42 | 10·83 |
| **CF150/400** | 400 | 11·69 | 12·15 |
| **CF150/450** | 450 | 12·33 | 12·96 |
| **CF150/500** | 500 | 12·43 | 13·00 |

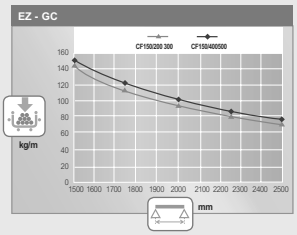
**Please use Cat. No. when placing your order, see p. 13**

All weights are given in Kilograms (kg) and are for a 3 m straight length

### ■ Loading graphs

The permissable load stated in this catalogue represents the load that Cablofil steel wire cable tray is guaranteed to be able to bear. It assumes loads are evenly spread and is given in daN/m. The standard permits a deflection equivalent to 1/100th of the span. Legrand imposes a stricter limit of 1/200th for both safety and aesthetic reasons. For example, Legrand voluntarily restricts deflection to 10 mm for a span of 2 m, whereas the standard would allow 20 mm.

Load tests carried out to IEC 61537 (safety factor 1·7 + joint $^1/_5{}^{th}$ of the way along the span). Permissable load should include all cable loads and any other additional loads (eg: wind, snow)




**NOTE:**
For more information on loadings, see **p. 125**

### ■ Finishes

**Available finishes :**

EZ Electrogalvanising after manufacture

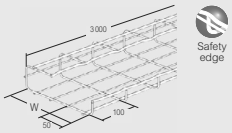
GC Hot dip galvanised after manufacture

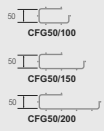
For detailed information related to finishes, refer to **p. 116-117**

## straight lengths - CFG
**technical information**

### ■ Dimensions and weights

**50 mm → 100 mm → 200 mm → 3 m**




| Cat. Nos. | W mm | Weight (kg/3 m) EZ | GC |
|---|---|---|---|
| **CFG50/100** | 100 | 2·84 | 2·95 |
| **CFG50/150** | 150 | 3·32 | 3·45 |
| **CFG50/200** | 200 | 4·39 | 4·56 |

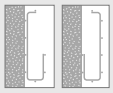
**Please use Cat. No. when placing your order, see p. 14**

All weights are given in Kilograms (kg) and are for a 3 m straight length

### ■ Installation



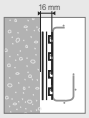
Ceiling mounted
Use CE40 (see p. 69) and fasteners (not supplied)



Wall mounted either by base or by G section. Use CE40 (see p.69) and fasteners (not supplied)




Wall mounted using CM50XL universal mounting plate
See **p. 55**




Wall mounted using RCSN fast fit support rail
See **p. 65**

### ■ Finishes

**Available finishes :**

EZ Electrogalvanising after manufacture

GC Hot dip galvanised after manufacture

For detailed information related to finishes, refer to **p. 116-117**

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

All dimensions (mm) are nominal

→ Couplers : see p. 48-51

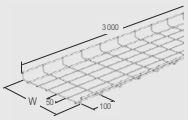
→ Dividers : see p. 46

## straight lengths - UF30 (for cavity floor installations only)
**technical information**



### ■ Dimensions and weights

**30 mm → 300 mm → 500 mm → 3 m**







| Cat. Nos. | W mm | Weight (kg) EZ |
|---|---|---|
| **UF30/300** | 300 | 3·87 |
| **UF30/400** | 400 | 4·80 |
| **UF30/500** | 500 | 5·74 |

**Please use Cat. No. when placing your order, see p. 14**

All weights are given in Kilograms (kg) and are for a 3 m straight length




Recommended support spacing = 1000 mm

### ■ Finishes

**Standard stocked finish :**

EZ Electrogalvanising after manufacture

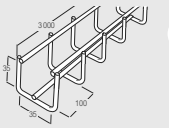
For detailed information related to finishes, refer to **p. 116-117**

→ Couplers : see p. 48-51

## mini steel wire cable tray – TXF35
**technical information**

### ■ Dimensions and weights

35 mm 35 mm 3 m



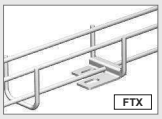

No safety edge

| Cat. Nos. | Weight (kg/3 m) EZ | GC | 304L | 316L |
|---|---|---|---|---|
| TXF35 | 1·50 | 1·80 | 1·40 | 1·40 |

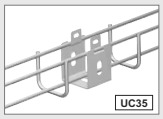
**Please use Cat. No. when placing your order, see p. 15**

All weights are given in Kilograms (kg) and are for a 3 m straight length

### ■ Installation

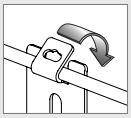


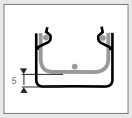

Use FTX and fasteners (not supplied) to secure TXF35 steel wire cable tray to the floor



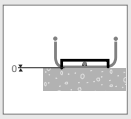

Use UC35 and fasteners to secure TXF35 steel wire cable tray to the wall or floor

### ■ Assembly

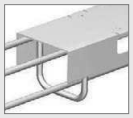





Bend tabs with pliers to secure to steel wire cable tray




Clip FTX over base wire of the tray and secure to floor using fasteners (not supplied)



CP35 covers, (see p. 15) simply clip into place

Fast assembling

Fixing without nuts and bolts

### ■ Finishes

**Standard stocked finish :**

EZ Electrogalvanising after manufacture

**Additional finishes :**

GC Hot dip galvanised after manufacture

304L Stainless steel 304L

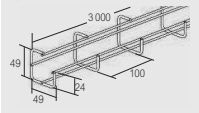
316L Stainless steel 316L

For detailed information related to finishes, refer to **p. 116-117**

## flexible steel wire cable tray – G-MINI
**technical information**

### ■ Dimensions and weights

50 mm 50 mm 3 m



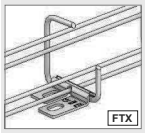

No safety edge

| Cat. Nos. | Weight (kg/3 m) EZ | 316L |
|---|---|---|
| G-MINI | 1·20 | 1·15 |

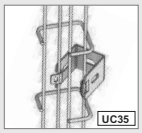
**Please use Cat. No. when placing your order, see p. 15**

All weights are given in Kilograms (kg) and are for a 3 m straight length

### ■ Installation

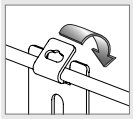



Use FTX and fasteners (not supplied) to secure G-MINI steel wire cable tray to the wall or floor

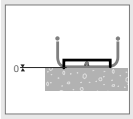



Use UC35 and fasteners to secure G-MINI steel wire cable tray to the wall or floor

### ■ Assembly



Bend tabs with pliers to secure to steel wire cable tray




Clip FTX over base wire of the tray and secure to floor using fasteners (not supplied)

Fast assembling

Fixing without nuts and bolts

### ■ Finishes

**Standard stocked finish :**

EZ Electrogalvanising after manufacture

**Additional finishes :**

316L Stainless steel 316L

For detailed information related to finishes, refer to **p. 116-117**

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

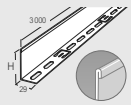
All dimensions (mm) are nominal

## straight length dividers – COT / COT J
**technical information**

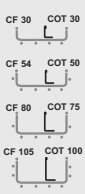
■ **COT – dividers**
**COTJ – divider connectors**

■ **Dimensions and weights**

**COT 30 mm → 105 mm 100 mm → 600 mm 3 m**



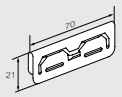

COT dividers have a return safety edge




| Cat. Nos. | H mm | Weight (kg/3 m) GS | GC | 316L |
|---|---|---|---|---|
| COT30 | 24 | 0·3 | 0·3 | 0·3 |
| COT50 | 48 | 0·5 | 0·5 | 0·5 |
| COT75 | 72 | 0·7 | 0·7 | – |
| COT100 | 96 | 0·9 | 0·9 | 0·9 |

**Please use Cat. No. when placing your order, see p. 16**
All weights are given in Kilograms (kg) and are for a 3 m straight length

**COTJ 30 mm → 105 mm 100 mm → 600 mm**




| Cat. No. | Weight (kg) GS | 316L |
|---|---|---|
| COT J | 0·1 | 0·1 |

**Please use Cat. No. when placing your order, see p. 16**
All weights are given in Kilograms (kg) and are per unit (each)

■ **Installation**



Use COT dividers and COTJ divider connectors along the tray length to separate cable runs

■ **Assembly**



Fold tab in base to secure to the base of the tray length
COTJ dividers clip into place over the joint of two dividers

Fast assembling

Fixing without nuts and bolts

**Key :** GS Pre-galvanised
GC Hot dip galvanised after manufacture
316L Stainless steel 316L

For detailed information related to finishes, refer to **p. 116-117**

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

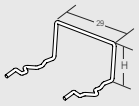
All dimensions (mm) are nominal

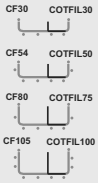
## bend dividers – COTFIL
**technical information**

■ **COTFIL – bend dividers**

■ **Dimensions and weights**

**30 mm → 105 mm 100 mm → 600 mm**

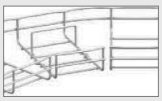



| Cat. Nos. | H mm | Weight (kg) EZ | 304L |
|---|---|---|---|
| COTFIL30 | 24 | 0·05 | 0·05 |
| COTFIL50 | 44 | 0·05 | 0·05 |
| COTFIL75 | 71 | 0·05 | 0·05 |
| COTFIL100 | 94 | 0·05 | 0·05 |

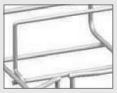
**Please use Cat. No. when placing your order, see p. 16**
All weights are given in Kilograms (kg) and are for a 3 m straight length

■ **Installation**



Use COTFIL dividers on fabricated bends to separate cable runs

■ **Assembly**



Clip COTFIL dividers into place by inserting the end under the base wires of the tray

Fast assembling

Fixing without nuts and bolts

**Key :** EZ Electrogalvanising after manufacture
304L Stainless steel 304L

For detailed information related to finishes, refer to **p. 116-117**

All dimensions (mm) are nominal

→ How to fabricate bends : see p. 98–101

# covers and cover clips – CVN - CP - F01 - F02 - F03
**technical information**

## ■ CVN – covers (1 m length)
## CP – covers (2 m length)
## F01 / F02 / F03 – cover clips

**CVN - covers**
Supplied in packs of 3 x 1 m lengths, CVN covers are available for 50 mm to 600 mm wide steel wire cable tray in 30 mm to 105 mm depths

**CP - covers**
Supplied in packs of 1 x 2 m lengths, CP covers are available for 50 mm to 600 mm wide steel wire cable tray in 30 mm to 105 mm depths

**F01 / F02 / F03 - cover clips**
Supplied in packs of 25, F01 clips are used with 30 mm deep tray; F02 clips are used with 54 mm and 105 mm deep tray and F03 clips are used with 80 mm deep tray. Clips can be used with both CVN and CP covers

## ■ Installation



CVN and CP covers can be fitted directly with integral tabs or alternatively with optional cover clips







Use optional cover clips to secure covers

## ■ Assembly

**Securing CVN / CP covers to steel wire cable tray**



Fast assembling

Fixing without nuts and bolts

**Securing F01/F02/F03 cover clips to CVN / CP covers**



Fast assembling

Fixing without nuts and bolts

Squeeze clips at base and apply to underside of tray

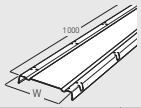


Fix the top of the clip into the groove along the edge of the lid to secure

→ Straight lengths : see p. 38–44

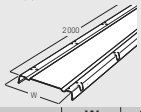
## ■ Dimensions and weights

**CVN - 30 - 105 mm 50 → 600 mm 1 m**




| Cat. Nos. | W mm | kg/m | Weight (kg) GS | GC | 304L | 316L |
|---|---|---|---|---|---|---|
| CVN50 | 71 | 0·4 | 1·80 | 1·95 | 1·81 | 1·81 |
| CVN100 | 121 | 0·7 | 2·52 | 2·73 | 2·52 | 2·52 |
| CVN150 | 171 | 1·1 | 3·21 | 3·48 | – | 3·21 |
| CVN200 | 221 | 1·4 | 3·93 | 4·26 | – | 3·90 |
| CVN300 | 322 | 2·0 | 5·37 | 5·79 | – | – |
| CVN400 | 425 | 3·5 | 8·52 | 9·84 | – | – |
| CVN450 | 475 | 3·4 | 9·39 | 10·86 | – | – |
| CVN500 | 525 | 4·3 | 10·29 | 11·88 | – | – |
| CVN600 | 625 | 5·0 | 12·06 | 13·92 | – | – |

**CP - 30 → 105 mm 50 → 600 mm 2 m**




| Cat. Nos. | W mm | kg/m | Weight (kg) GS | GC | 316L |
|---|---|---|---|---|---|
| CP50 | 71 | 0·4 | 1·21 | 1·31 | 1·21 |
| CP100 | 121 | 0·7 | 1·68 | 1·82 | 1·68 |
| CP150 | 171 | 1·1 | 2·15 | 2·33 | 2·15 |
| CP200 | 221 | 1·4 | 2·62 | 2·84 | 2·62 |
| CP300 | 322 | 2·0 | 3·57 | 3·87 | 3·57 |
| CP400 | 425 | 3·5 | 5·68 | 6·56 | 6·05 |
| CP450 | 475 | 3·4 | 6·95 | 7·40 | 6·90 |
| CP500 | 525 | 4·3 | 6·85 | 7·92 | 7·31 |
| CP600 | 625 | 5·0 | 8·03 | 9·28 | 8·57 |

**F01/F02/F03 – 30 → 105 mm 50 → 600 mm**

**F01** → CF30

**F02** → CF54 CF105

**F03** → CF80

| Cat. No. | Weight (kg) GS | 316L |
|---|---|---|
| F01/2/3 | 0·1 | 0·1 |

**Please use Cat. No. when placing your order, see p. 17**
All weights are given in Kilograms (kg) and are per unit (each)

**Key :**
GS Pre-galvanised
GC Hot dip galvanised after manufacture
304L Stainless steel 304L
316L Stainless steel 316L

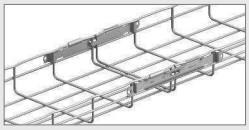
For detailed information related to finishes, refer to **p. 116-117**

# couplers – length to length
**EDRN - AUTOCLIC**

## ■ EDRN – couplers

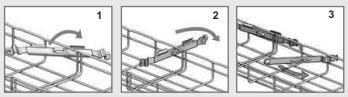
EDRN couplers are supplied with one fixing tool in each pack of 50 couplers. No additional fasteners or tools required

### ■ Installation



EDRN couplers are used in pairs across the side rail joint of two lengths of tray as shown

### ■ Assembly




1. Position coupler as indicated
2. Twist coupler into place
3. Use fixing tool (supplied) to pull coupler into place

Patented | Fast assembling | Fixing without nuts and bolts

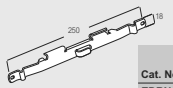
The table below indicates the recommended quantity of EDRN couplers required per width of steel wire cable tray
Note: for base coupling, CEFAS (p. 50) can be used as an alternative to EDRN couplers

A → A = side coupling  B = base coupling

| | 50 | | 100 | | 150 | | 200 | | 300 | | 400 ➡ 500 | | 600 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | B | A | B | A | B | A | B | A | B | A | B | A | B |
| **CF30** | 2 | 0 | 2 | 0 | 2 | 0 | 2 | 1 | 2 | 1 | 2 | 2 | 2 | 3 |
| **CF54** | 2 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 2 | 1 | 2 | 2 | 2 | 3 |
| **CF80** | – | – | 2 | 1 | – | – | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 3 |
| **CF105** | – | – | 2 | 1 | 2 | 1 | 2 | 2 | 2 | 3 | 2 | 3 | 2 | 3 |
| **CF150** | – | – | – | – | – | – | 2 | 2 | 2 | 3 | 2 | 3 | 2 | 3 |
| **CFG** | – | – | 2 | 1 | 2 | 1 | 2 | 1 | – | – | – | – | – | – |

### ■ Dimensions and weights

30 → 150 mm  50 → 600 mm




| Cat. Nos. | Weight (kg) EZ | DC | 316L |
|---|---|---|---|
| **EDRN** | 0·07 | 0·07 | 0·07 |

**Please use Cat. No. when placing your order, see p. 18**
All weights are given in Kilograms (kg)

All dimensions (mm) are nominal

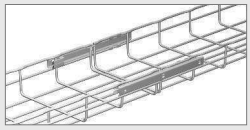
**Key :** EZ Electrogalvanising after manufacture
DC Geomet
316L Stainless steel 316L
For detailed information related to finishes, refer to **p. 116-117**

➡ Straight lengths : see p. 38-44

## ■ AUTOCLIC – couplers

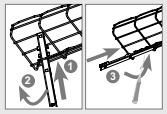
AUTOCLIC couplers are supplied in packs of 50. Rapid fit with screwdriver. No additional fasteners required

### ■ Installation



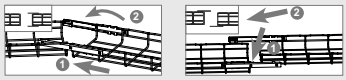
AUTOCLIC couplers are used in pairs across the side rail joint of two lengths of tray as shown

### ■ Assembly




Fast assembling | Fixing without nuts and bolts | Patented

1. Insert coupler
2. Twist into position
3. Pull into place with screwdriver (not supplied)




Fit Autoclic to both sides of one length of tray and insert into second length as shown **OR** Fit Autoclic in an offset pattern on alternate ends of each length

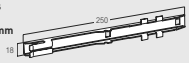
The table below indicates the recommended quantity of AUTOCLIC couplers required per width of steel wire cable tray
Note: wider widths need the addtion of either CEFAS (p. 50) or KITASSTR (p. 51) to provide additional support to the base

A → A = side coupling  B = base coupling

| | 50 | | 100 | | 150 / 200 | | 300 | | 400 ➡ 500 | | 600 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | B | A | B | A | B | A | B | A | B | A | B |
| **CF54** | 2 | 0 | 2 | 0 | 2 | 0 | 2 | 1 | 2 | 2 | 2 | 3 |
| **CF105** | – | – | 2 | 0 | 2 | 1 | 2 | 2 | ☺ | ☺ | ☺ | ☺ |
| **CFG** | – | – | 2 | 1 | 2 | 1 | 2 | 1 | – | – | – | – |

### ■ Dimensions and weights

54 / 105 mm  50 → 600 mm




| Cat. Nos. | Weight (kg) GS | GC | 304L | 316L |
|---|---|---|---|---|
| **AUTOCLIC** | 0·09 | 0·10 | 0·10 | 0·10 |

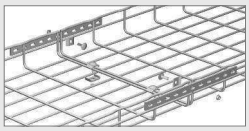
**Please use Cat. No. when placing your order, see p. 18**
All weights are given in Kilograms (kg)

**Key :** GS Pre-galvanised
GC Hot dip galvanised after manufacture
304L Stainless steel 304L
316L Stainless steel 316L
For detailed information related to finishes, refer to **p. 116-117**

## joint strips – length to length coupling
**ED275 - ED1100**

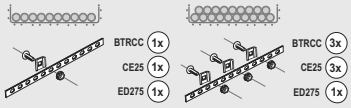
Use to provide additional support for length to length coupling Fasteners are required to secure joint strips to the tray (see below) ED275 supplied in packs of 50 without fasteners. ED1100 supplied singly without fasteners. Not suitable for 30 mm or 80 mm deep tray

**Installation**



Joint strips attach to the side wire of the tray across the joint when used as a length to length coupler. Fasteners required (not supplied)

■ **Assembly**




For lighter loads, use a single fastener

For heavier loads, increase the number of fasteners

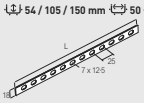
The table below indicates the recommended quantity of ED275/ED1100 joint strips per width and also KITASSTR (p. 50) as a base coupler

A → ← A = side coupling  B = base coupling (CAA)

| | 50 | | 100 | | 150 | | 200 | | 300 | | 400 500 | | 600 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | B | A | B | A | B | A | B | A | B | A | B | A | B |
| CF54 | 2 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 2 | 1 | 2 | 2 | 2 | 3 |
| CF105 | – | – | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 2 | 3 | 2 | 3 |
| CF150 | – | – | – | – | – | – | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 3 |
| CFG | – | – | 2 | 1 | 2 | 1 | 2 | 1 | – | – | – | – | – | – |

■ **Dimensions and weights**

**54 / 105 / 150 mm 50 → 600 mm**




| Cat. No. | L mm | Weight (kg) EZ | GC | 304L | 316L |
|---|---|---|---|---|---|
| ED275 | 275 | 0·08 | 0·10 | 0·08 | 0·08 |
| ED1100 | 1 000 | 0·49 | 0·55 | – | 0·38 |

**Please use Cat. No. when placing your order, see p. 18**

All weights are given in Kilograms (kg)

All dimensions (mm) are nominal

**Key :** EZ Electrogalvanising after manufacture; GC Hot dip galvanised after manufacture; 304L Stainless steel 304L; 316L Stainless steel 316L

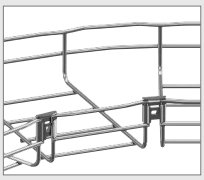
For detailed information related to finishes, refer to **p. 116-117**

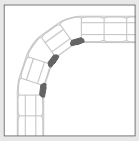
→ Straight lengths : see p. 38–44

## couplers – fabricated fittings
**FASLOCK AUTO**

FASLOCK AUTO is used to form radius bends. For 100 mm and 200 mm wide steel wire cable tray use FASLOCK AUTO S (small). For 300 mm wide to 600 mm wide tray use FASLOCK AUTO XL (large) Supplied in packs of 25. No additional fasteners or tools required. For detailed installation instructions see p. 97-99

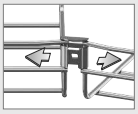
**Installation**





FASLOCK AUTO is positioned on the internal angle of a radius bend after steel wire cable tray has been cut. No fasteners required

■ **Assembly**



Clip FASLOCK AUTO into place. Safety edges protect both the cables and the installer

Patented | Fast assembling | Fixing without nuts and bolts

■ **Dimensions and weights**

**30 → 150 mm 100 → 600 mm**



| Cat. Nos. | Weight (kg) EZ | DC | 316L |
|---|---|---|---|
| FASLOCK AUTO S | 0·01 | 0·01 | 0·01 |
| FASLOCK AUTO XL | 0·01 | 0·01 | 0·01 |

**Please use Cat. No. when placing your order, see p. 18**

All weights are given in Kilograms (kg)

All dimensions (mm) are nominal

**Key :** EZ Electrogalvanising after manufacture; DC Geomet; 316L Stainless steel 316L

For detailed information related to finishes, refer to **p. 116-117**

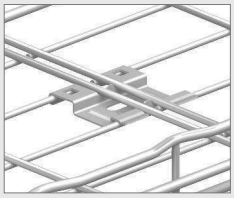
→ Creating a radius bend : see p. 98–101
→ Installing FASLOCK AUTO : see p. 97–99

# base couplers – length to length
**CEFAS - R15/25/35**

## ■ CEFAS – base couplers

CEFAS couplers are used as base couplers or in conjunction with EDRN or AUTOCLIC as side rail couplers (p. 48). Can also be used as a luminaire support. Supplied in packs of 50. No additional fasteners or tools required

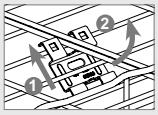
**Installation**



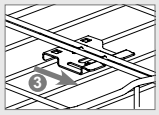


CEFAS used as a base coupler between two lengths of steel wire cable tray. No fasteners required

## ■ Assembly




1. and 2. insert CEFAS into the base of the tray as shown

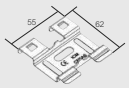



3. slide into place to secure No fasteners required

Patented | Fast assembling | Fixing without nuts and bolts

## ■ Dimensions and weights

**30 → 150 mm 100 → 600 mm**




| Cat. Nos. | Weight (kg) GS | DC | 316L |
|---|---|---|---|
| CEFAS | 0·03 | 0·04 | 0·34 |

**Please use Cat. No. when placing your order, see p. 18**

All weights are given in Kilograms (kg)

All dimensions (mm) are nominal

**Key :** GS Pre-galvanised | DC Geomet | 316L Stainless steel 316L

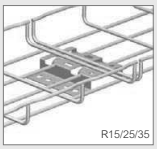
For detailed information related to finishes, refer to **p. 116-117**

→ Straight lengths : see p. 38–44

## ■ R15/25/35 – stand-off brackets

Use to fix 100 mm to 600 mm wide steel wire cable tray in 30 mm to 150 mm depths directly onto the floor. For 200 mm and 300 mm wide tray, use 2 x brackets per length. For 400 mm to 600 mm wide tray, use 3 x brackets per length. Can also be used for wall mounting (see p. 63). Incorporate slot and tab design for easy fixing. Supplied singly without fasteners

## ■ Installation






Mount tray runs on the floor using R15/25/35 and fasteners (not supplied)

## ■ Assembly

**Securing stand-off brackets to steel wire cable tray**

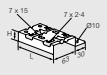


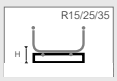
Patented | Fast assembling | Fixing without nuts and bolts

Slot base wires of the tray into the stand-off bracket and bend tabs with screwdriver to secure, as shown in the FAS diagram above

## ■ Dimensions and weights

**30 → 105 mm 100 → 600 mm**




| Cat. No. | H mm | L mm | F daN | Weight (kg) GS | Z+ | 316L |
|---|---|---|---|---|---|---|
| R15/100 | 15 | 98 | 100 | 0·14 | 0·09 | 0·09 |
| R15/300 | 15 | 300 | 100 | 0·38 | 0·41 | – |
| R25 | 25 | 98 | 100 | 0·13 | 0·12 | – |
| R35 | 35 | 98 | 50 | 0·15 | 0·14 | – |

**Please use Cat. No. when placing your order, see p. 18**

All weights are given in Kilograms (kg)

All dimensions (mm) are nominal

**Key :** GS Pre-galvanised | Z+ Continuous galvanisation before manufacture | 316L Stainless steel 316L

For detailed information related to finishes, refer to **p. 116-117**

→ For wall mounting : see p. 63

→ For floor mounting : see p. 79

## fixing components – channel fixings
**FASTRUT 41**

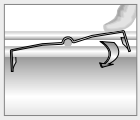
Use to secure steel wire cable tray to channel support or channel type cantilever arms. Supplied in packs of 50. No additional fasteners required

■ **Installation**



FASTRUT 41 in situ holding steel wire cable tray down to channel length

■ **Assembly**



Patented | Fast assembling | Fixing without nuts and bolts

Push fit FASTRUT 41 on to base wire of the tray and clip into position

■ **Dimensions and weights**

CF30/CF54/CF105 100 → 600 mm



| Cat. No. | L mm | Weight (kg) DC | 316L |
|---|---|---|---|
| FS41 | 73 | 0·01 | 0·01 |

**Please use Cat. No. when placing your order, see p. 18**

All weights are given in Kilograms (kg)

All dimensions (mm) are nominal

**Key :** DC Geomet | 316L Stainless steel 316L

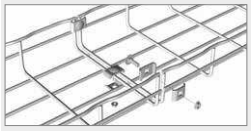
For detailed information related to finishes, refer to **p. 116-117**

→ Straight lengths : see p. 38–44

## fixing kits – length to length coupling
**KITASSTR - KITASSVS - KITINOX**

Use for length to length coupling. Supplied in packs of 50

■ **Installation**



Fixing kits can be used to join two straight lengths. Use on both side wire and base of tray

■ **Assembly**

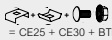
The table below indicates the recommended quantity of fixing kits required to couple straights lengths together

A → A = side coupling | B = base coupling

| | 50 | | 100 | | 150 | | 200 | | 300 | | 400 → 450 | | 500 | | 600 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | B | A | B | A | B | A | B | A | B | A | B | A | B | A | B |
| CF30 - CF54 | 2 | 0 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 |
| CF80 | – | – | 2 | 1 | – | – | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 3 |
| CF105 | – | – | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 2 | 3 | 2 | 3 | 2 | 3 |
| CF150 | – | – | – | – | – | – | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 3 | 2 | 3 |
| CFG | – | – | 2 | 1 | 2 | 1 | 2 | 1 | – | – | – | – | – | – | – | – |

■ **Dimensions and weights**

**KITASSTR**



= CE25 + CE30 + BTRCC 6 x 20

**KITASSVS**



= CE25VS + CE30ES

**KITFIXTR**



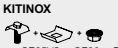
= CE25 + BTRCC 6 X 20

**KITFIXVS**



= CE25 + EEC6

**KITINOX**



= CE25VS + CE30 + EEC6

| Cat. Nos. | Weight (kg) EZ | GC | DC | 304L | 316L |
|---|---|---|---|---|---|
| KITASSTR | 0·03 | – | 0·03 | – | 0·03 |
| KITASSVS | 0·03 | – | 0·03 | – | – |
| KITFIXTR | 0.02 | – | – | – | – |
| KITFIXVS | 0.02 | – | – | – | – |
| KITINOX | – | – | – | – | 0·03 |
| CE25 | 0·01 | – | 0·01 | 0·01 | 0·01 |
| CE30 | 0·01 | – | 0·01 | 0·01 | 0·01 |
| BTRCC6 x 20 | 0·01 | – | 0·01 | 0·01 | 0·01 |

**Please use Cat. No. when placing your order, see p. 19**

All weights are given in Kilograms (kg)

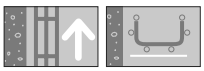
All dimensions (mm) are nominal

**Key :** EZ Electrogalvanising after manufacture | DC Geomet | GC Hot dip galvanised after manufacture | 304L Stainless steel 304L | 316L Stainless steel 316L

For detailed information related to finishes, refer to **p. 116-117**

→ Straight lengths : see p. 38–44

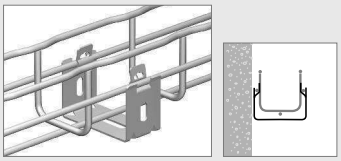
# wall mounting – light duty
**UC50**

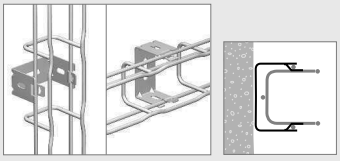


## ■ UC50 – support cradles

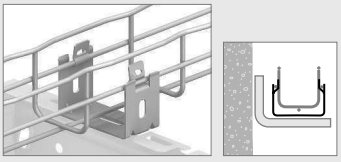
Use as a support cradle for 50 mm wide steel wire cable tray in 30 mm or 54 mm depths
Can be mounted directly onto the wall - horizontally or vertically, or onto wall mounted cantilever arms using fasteners (see below for assembly information)
Can also be ceiling mounted in conjunction with CEQ (see p. 67) or floor mounted (see p. 80). Supplied singly without fasteners

## ■ Installation





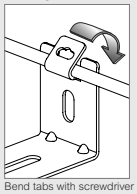
Mount directly onto wall using fasteners (not supplied)



Mount onto wall mounted cantilever arms using fasteners (not supplied)

## ■ Assembly

**Securing UC50 to steel wire cable tray**

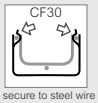


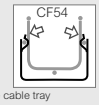


Fast assembling



Fixing without nuts and bolts




Bend tabs with screwdriver to secure to steel wire cable tray

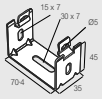
**Securing UC50 to cantilever arm**




Use BTRCC 6 x 20 (see p. 35) to secure to cantilever arms

## ■ Dimensions and weights

**30 → 54 mm 50 mm**




| Cat. Nos. | F daN | Weight (kg) GS | GC | 304L | 316L |
|---|---|---|---|---|---|
| UC50 | 12 | 0·06 | 0·07 | 0·06 | 0·06 |

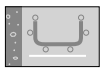
**Please use Cat. No. when placing your order, see p. 20**
All weights are given in Kilograms (kg)

→ For ceiling mounting : see p. 67
→ For cantilever arms : see p. 56-62

Key : GS Pre-galvanised
GC Hot dip galvanised after manufacture
304L Stainless steel 304L
316L Stainless steel 316L
For detailed information related to finishes, refer to **p. 116-117**

All dimensions (mm) are nominal

# wall mounting – light duty
**CAT30**



## ■ CAT30 – cantilever arm / wall fixing plates

Use to fix 50 mm wide steel wire cable tray in 30 mm or 54 mm depths directly onto the wall or onto wall mounted cantilever arms using fasteners (see below for assembly information)
Supplied singly without fasteners

## ■ Installation





Mount directly onto the wall using fasteners (not supplied)



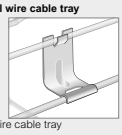


Mount onto wall mounting cantilever arms using fasteners (not supplied)

## ■ Assembly

**Securing CAT30 to steel wire cable tray**







Fixing without nuts and bolts

Click to secure to steel wire cable tray

**Securing CAT30 to cantilever arms**




Use BTRCC 6 x 20 (see p. 35) to secure to cantilever arms

For cantilever arms : see p. 56-62

## ■ Dimensions and weights

**30 → 54 mm 50 mm**



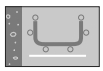

| Cat. Nos. | F daN | Weight (kg) GS | DC | 304L | 316L |
|---|---|---|---|---|---|
| CAT30 | 20 | 0·03 | 0·03 | 0.03 | 0.03 |

**Please use Cat. No. when placing your order, see p. 20**
All weights are given in Kilograms (kg)

**Key :** GS Pre-galvanised; DC Hot dip galvanised after manufacture; 304L Stainless steel 304L; 316L Stainless steel 316L
For detailed information related to finishes, refer to **p. 116-117**

All dimensions (mm) are nominal

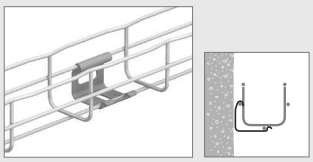
# wall mounting – light duty
**CAT40**



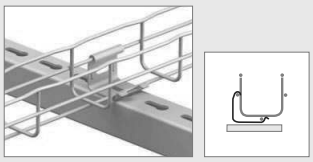
## ■ CAT40 – channel / wall fixing plates

Use to fix 50 mm wide steel wire cable tray in 30 mm or 54 mm depths directly onto the wall or onto wall mounted channel support
Attach to wall or channel support using fasteners (see below for assembly information)
Can also be clipped onto most steel wire cable trays as an ancillary mounting plate (see p. 87). Supplied singly without fasteners

## ■ Installation



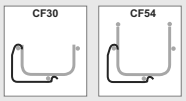
Mount directly onto wall using fasteners (not supplied)



Mount onto wall mounted channel support using fasteners (not supplied)

## ■ Assembly

**Securing CAT40 to steel wire cable tray**

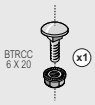





Fixing without nuts and bolts

Click to secure to steel wire cable tray

**Securing CAT40 to channel support**




Use BTRCC 6 x 20 (see p. 35) to secure to channel support

**Key :** GS Pre-galvanised; DC Geomet; 304L Stainless steel 304L; 316L Stainless steel 316L
For detailed information related to finishes, refer to **p. 116-117**

All dimensions (mm) are nominal

## ■ Dimensions and weights

**30 → 54 mm 50 mm**

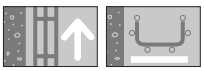



| Cat. Nos. | F daN | Weight (kg) GS | DC | 316L | 304L |
|---|---|---|---|---|---|
| CAT40 | 20 | 0·04 | 0·04 | 0·04 | 0·04 |

**Please use Cat. No. when placing your order, see p. 20**
All weights are given in Kilograms (kg)

# wall mounting – medium duty

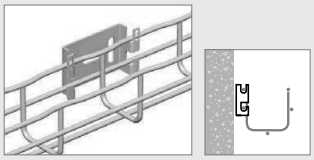
**CM50 – CM50XL**



## ■ CM50 – universal mounting plates (small)

Use to fix 50 mm wide steel wire cable tray in 54 mm depth directly onto the wall using the side rail of tray
Use for horizontal mounting of steel wire cable tray runs. Incorporates slot and tab design for easy fixing
Can also be clipped onto most steel wire cable trays as an ancillary mounting plate (see p. 87). Supplied singly without fasteners

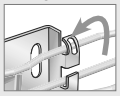
### ■ Installation



Mount directly onto wall using fasteners (not supplied)

### ■ Assembly

**Securing CM50 to steel wire cable tray**



Bend tabs with screwdriver to secure to steel wire cable tray



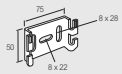
Fast assembling



Fixing without nuts and bolts

### ■ Dimensions and weights

**54 mm 50 mm**




| Cat. Nos. | Weight (kg) | | | |
|---|---|---|---|---|
| | GS | GC | 304L | 316L |
| CM50 | 0·08 | 0·08 | 0·07 | 0·07 |

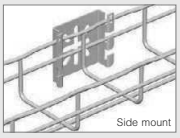
**Please use Cat. No. when placing your order, see p. 20**

All weights are given in Kilograms (kg)

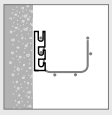
## ■ CM50XL – universal mounting plates (large)

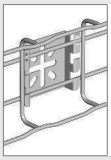
Use to fix 50 mm to 100 mm wide steel wire cable tray in 54 mm and 80 mm depths directly onto the wall using side rail of tray, and 100 mm to 600 mm wide tray in 30 mm to 105 mm depths (including CFG) using base of tray. Can be used for horizontal and vertical mounting of cable tray runs. Can also be used for ceiling mounting (see p. 69) and floor mounting (see p. 78). Incorporates slot and tab design for easy fixing. Supplied singly without fasteners

### ■ Installation



Side mount

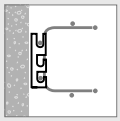




Base mount - horizontal



Base mount - vertical



### ■ Assembly

**Securing CM50XL to steel wire cable tray**



Bend tabs with screwdriver to secure to steel wire cable tray



Fast assembling

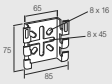


Fixing without nuts and bolts

### ■ Dimensions and weights

**54 mm →80 mm 50 → 100 mm (side rail mounted)**

**30 mm →105 mm 100 → 600 mm (base mounted)**




| Cat. Nos. | Weight (kg) | | | |
|---|---|---|---|---|
| | GS | GC | 304L | 316L |
| CM50XL | 0·10 | 0·11 | 0·08 | 0·08 |

**Please use Cat. No. when placing your order, see p. 20**

All weights are given in Kilograms (kg)

**Key :**

- GS Pre-galvanised
- GC Hot dip galvanised after manufacture
- 304L Stainless steel 304L
- 316L Stainless steel 316L

For detailed information related to finishes, refer to **p. 116-117**

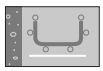
All dimensions (mm) are nominal

→ For ceiling mounting : see p. 69

→ For floor mounting : see p. 78

# wall mounting – medium duty

**CSN**



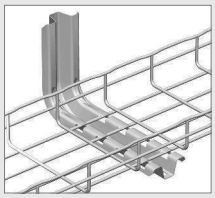
## ■ CSN – profile cantilever arms
## INTERFAS – adaptor plate
## EPVCSN – end cap

**CSN - profile cantilever arms**
Use to support 100 mm to 450 mm wide steel wire cable tray in 30 mm and 54 mm depths. Can be wall mounted using fasteners (see below) or pendant drop mounted using EDF mounting rail (see p. 76). Incorporate slot and tab design for easy fixing. Supplied singly without fasteners

**INTERFAS - adaptor plate**
Used as a tool-less mounting device to attach CSN profile cantilever arms to channel section
Supplied singly

**EPVCSN - end cap**
PVC end cap for CSN profile cantilever arms
Supplied singly

## ■ Installation





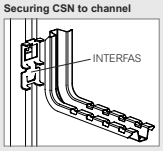
Mount directly onto wall using fasteners (not supplied)



Slot CSN into INTERFAS. No additional fasteners required

## ■ Assembly

**Securing CSN to channel**




Mount onto wall mounted channel support using INTERFAS

**Securing CSN to steel wire cable tray**









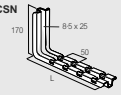
Patented | Fast assembling | Fixing without nuts and bolts

Slot base wires of the tray into the cantilever arm and bend tabs with screwdriver to secure, as shown in the FAS diagram above

## ■ Dimensions and weights

**30 → 54 mm 100 → 450 mm**

**CSN**




| Cat. Nos. | L mm | daN | Weight (kg) GS | GC | 304L | 316L |
|---|---|---|---|---|---|---|
| **CSN100** | 178 | 30 | 0·37 | 0·40 | 0·40 | 0·40 |
| **CSN150** | 228 | 110 | 0·42 | 0·47 | 0·41 | 0·41 |
| **CSN200** | 278 | 85 | 0·47 | 0·53 | 0·51 | 0·51 |
| **CSN300** | 378 | 73 | 0·73 | 0·76 | 0·64 | 0·64 |
| **CSN400** | 478 | 56 | 0·82 | 0·92 | – | – |
| **CSN450** | 528 | 50 | 0·91 | 0·97 | – | – |

**Please use Cat. No. when placing your order, see p. 21**
All weights are given in Kilograms (kg)

**INTERFAS**




| Cat. No. | L mm | Weight (kg) GS | GC |
|---|---|---|---|
| **INTERFAS** | 100 | 0·08 | 0·08 |

**Please use Cat. No. when placing your order, see p. 24**
All weights are given in Kilograms (kg)

**EPVCSN**



| Cat. No. | Weight (kg) PVC |
|---|---|
| **EPVCSN** | 0·01 |

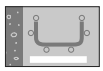
**Please use Cat. No. when placing your order, see p. 21**
All weights are given in Kilograms (kg)

**Key :**
GS Pre-galvanised
GC Hot dip galvanised after manufacture
PVC PVC
304L Stainless steel 304L
316L Stainless steel 316L

For detailed information related to finishes, refer to **p. 116-117**

All dimensions (mm) are nominal

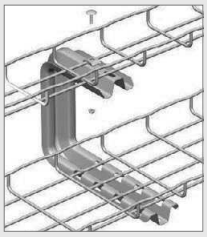
# wall mounting – medium duty
**CSNC**



## ■ CSNC – profile roof cantilever arms

Use to support 100 mm to 450 mm wide steel wire cable tray in 30 mm and 54 mm depths. Can be wall mounted using fasteners (see below) or ceiling mounted (see p. 73). Incorporate slot and tab design for easy fixing. Supplied singly without fasteners

## ■ Installation





Mount directly onto wall using fasteners (not supplied). Steel wire cable tray can be fitted to the main or profile arm of the cantilever (see assembly detail below)

## ■ Assembly

**CSNC - securing cantilever arm to steel wire cable tray**







Patented | Fast assembling | Fixing without nuts and bolts

Slot base wires of the tray into the cantilever arm and bend tabs with screwdriver to secure, as shown in the FAS diagram

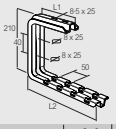



Use BTRCC 6 x 20 + CE25 to secure tray to the profile arm of the cantilever

For ceiling mounting : see p. 73

## ■ Dimensions and weights

30 → 54 mm 100 → 450 mm




| Cat. Nos. | L1 mm | L2 mm | F daN | Weight (kg) GS | GC | 316L |
|---|---|---|---|---|---|---|
| **CSNC100** | 170 | 178 | 120 | 0·57 | 0·65 | 0·60 |
| **CSNC150** | 170 | 228 | 100 | 0·63 | 0·72 | 0·67 |
| **CSNC200** | 170 | 278 | 80 | 0·68 | 0·80 | 0·72 |
| **CSNC300** | 288 | 378 | 70 | 1·30 | 1·35 | – |
| **CSNC400** | 288 | 478 | 48 | 1·36 | 1·38 | – |
| **CSNC450** | 288 | 528 | 44 | 1·40 | 1·47 | – |

**Please use Cat. No. when placing your order, see p. 21**

All weights are given in Kilograms (kg)

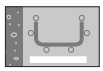
**Key :** GS Pre-galvanised | GC Hot dip galvanised after manufacture | 316L Stainless steel 316L

For detailed information related to finishes, refer to **p. 116-117**

All dimensions (mm) are nominal

# wall mounting – medium duty

**CB**

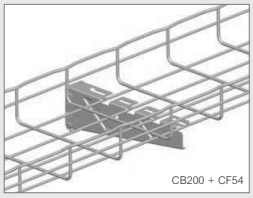


## ■ CB – compact cantilever arms for universal mounting

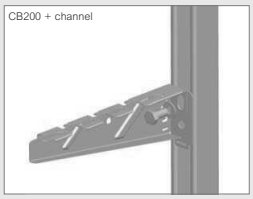
**CB**

Use to support 50 to 400 mm wide steel wire cable tray in 30 to 150 mm depths. Mount directly onto wall, channel or EDF mounting rail, (see p. 60). Incorporates slot and tab design for easy fixing
Supplied singly without fasteners

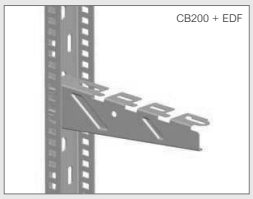
## ■ Installation




Steel wire cable tray mounted onto CB200



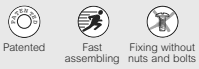

CB200 mounted onto channel (fasteners not supplied)




CB200 mounted onto EDF mounting rail

For ceiling (pendant) mounting : see p. 76-77

## ■ Assembly

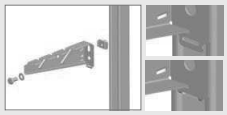



**CB - securing cantilever arm to steel wire cable tray**



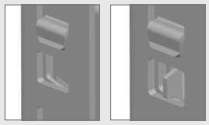

Slot base wires of the tray into the cantilever arm and bend tabs with screwdriver to secure, as shown in the FAS diagram

**CB - securing cantilever arm to channel**



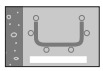
Use channel spring nut and fasteners to secure cantilever arm to channel. Bend bottom tab of cantilever arm for additional support

**EDF - CB - securing cantilever arm to mounting rail**



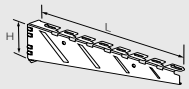
Bend tabs on camtilever arm to secure to the internal edge of the EDF mounting rail. No fasteners required

# wall mounting – medium duty
**CB (continued)**



## ■ Dimensions and weights

**CB 30 → 150 mm 50 → 400 mm**




| Cat. Nos. | L mm | H mm | Weight (kg) OS | GC | 316L |
|---|---|---|---|---|---|
| **CB50** | 81 | 71 | 0.090 | 0·096 | 0·092 |
| **CB100** | 131 | 71 | 0.117 | 0·125 | 0·120 |
| **CB150** | 181 | 75 | 0.162 | 0·173 | 0·166 |
| **CB200/250** | 231 | 75 | 0.188 | 0·201 | 0·193 |
| **CB300** | 335 | 88 | 0.348 | 0·371 | 0·355 |
| **CB400** | 435 | 102 | 0.482 | 0·514 | 0·492 |

**Please use Cat. No. when placing your order, see p. 21**
All weights are given in Kilograms (kg)

## ■ Safe working loads

| Cat. Nos. | daN Wall | Rail | Channel |
|---|---|---|---|
| **CB50** | 80 | 50 | 50 |
| **CB100** | 110 | 50 | 50 |
| **CB150** | 100 | 50 | 80 |
| **CB200/250** | 110 | 40 | 80 |
| **CB300** | 150 | 40 | 90 |
| **CB400** | 150 | 60 | 100 |

→ For ceiling (pendant) mounting : see p. 76-77

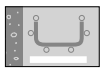
**Key :** OS Pre-galvanised; GC Hot dip galvanised after manufacture; 304L Stainless steel 304L; 316L Stainless steel 316L

For detailed information related to finishes, refer to **p. 116-117**

All dimensions (mm) are nominal

# wall mounting – medium duty

**CU – EDF – RE41SP**



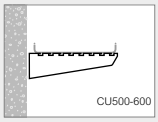
## ■ CU – cantilever arms - 500-600
## EDF – pendants / mounting rails
## RE41SP – pendants / mounting rails (heavy duty)

**CU500-600 - cantilever arms**
Use to support 500 mm to 600 mm wide steel wire cable tray in 30 mm to 150 mm depths. Mount directly onto wall or use with EDF or RE41SP mounting rails. Incorporate slot and tab design for easy fixing. Supplied singly without fasteners

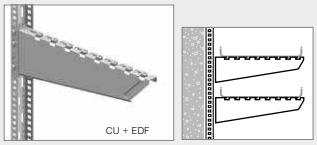
**EDF - pendants / mounting rails**
Use as a wall mounted rail or can be pendant mounted using PFREDF (see p. 76)
Supplied singly without fasteners

**RE41SP - pendants / mounting rails (heavy duty)**
Use as a wall mounted rail or can be pendant mounted using PFR41S (see p. 77)
Supplied singly without fasteners

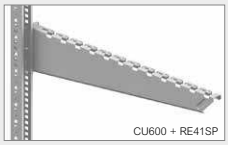
## ■ Installation




CU mounted directly onto wall using fasteners (not supplied)




CU mounted onto EDF mounting rail. No fasteners required




Mounted onto RE41SP mounting rail

For ceiling (pendant) mounting : see p. 76-77

## ■ Assembly


Patented


Fast assembling


Fixing without nuts and bolts

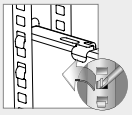
**CU500-600 - securing cantilever arm to steel wire cable tray**






Slot base wires of the tray into the cantilever arm and bend tabs with screwdriver to secure, as shown in the FAS diagram

**EDF - CU500-600 - securing cantilever arm to mounting rail**



Bend tabs on cantilever arm to secure to the internal edge of the EDF mountig rail. No fasteners required

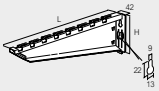
**RE41SP - CU500-600 - securing cantilever arm to mounting rail**



Bend tabs on cantilever arm to secure to the external edge of the RE41SP mountig rail. No fasteners required

## ■ Dimensions and weights

**CU 30 → 150 mm 500 → 600 mm**



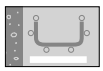

| Cat. Nos. | L mm | H mm | daN | | Weight (kg) GS | GC | STAL |
|---|---|---|---|---|---|---|---|
| | | | ▱ | ▰ | | | |
| **CU500** | 557 | 138 | 220 | 160 | 1·50 | 1·61 | 1·55 |
| **CU600** | 657 | 138 | 200 | 145 | 1·70 | 1·83 | 1·75 |

**Please use Cat. No. when placing your order, see p. 22**
All weights are given in Kilograms (kg)

All dimensions (mm) are nominal

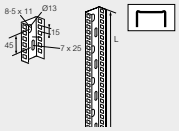
# wall mounting – medium duty

**CU – EDF – RE41SP (continued)**



## ■ CU – cantilever arms - 50-300 and 400-600
## EDF – pendants / mounting rails
## RE41SP – pendants / mounting rails (heavy duty)(continued)

**EDF 30 → 150 mm 100 → 600 mm**




| Cat. No. | L mm | F daN | Weight (kg) GS | GC | 304L | 316L |
|---|---|---|---|---|---|---|
| **EDF300** | 270 | 55 | 0·33 | 0·34 | – | – |
| **EDF600** | 600 | 50 | 0·77 | 0·83 | – | – |
| **EDF1000** | 1 000 | 65 | 1·19 | 1·24 | – | – |
| **EDF2000** | 2 000 | 70 | 2·40 | 2·56 | 2·48 | 2·48 |
| **EDF3000** | 3 000 | 100 | 3·66 | 3·89 | – | – |

**Please use Cat. No. when placing your order, see p. 24**

All weights are given in Kilograms (kg)

For ceiling (pendant) mounting : see p. 76-77

## ■ Dimensions and weights (continued)

**RE41SP 30 → 150 mm 100 → 600 mm**




| Cat. Nos. | L mm | mm | Weight (kg) GS |
|---|---|---|---|
| **RE41SP500** | 500 | 2 | 1·30 |
| **RE41SP800** | 800 | 2 | 1·90 |
| **RE41SP1000** | 1 000 | 2 | 2·60 |
| **RE41SP3000** | 3 000 | 2 | 7·90 |

**Please use Cat. No. when placing your order, see p. 24**

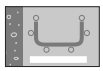
All weights are given in Kilograms (kg)

**Key :**
- GS Pre-galvanised
- GC Hot dip galvanised after manufacture
- 304L Stainless steel 304L
- 316L Stainless steel 316L

For detailed information related to finishes, refer to **p. 116-117**

All dimensions (mm) are nominal

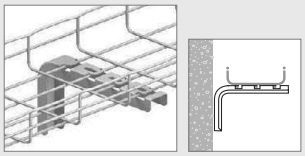
# wall mounting – medium duty
**CLN – CC21S**



## ■ CLN – cantilever arms

Use to support 100 mm to 300 mm wide steel wire cable tray in 30 mm to 54 mm depths. Wall mount using fasteners. Incorporate slot and tab design for easy fixing. Supplied singly without fasteners

### ■ Installation



Mount directly onto wall using fasteners (not supplied)

### ■ Assembly

**Securing CLN to steel wire cable tray**

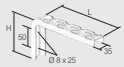


Patented | Fast assembling | Fixing without nuts and bolts

Slot base wires of the tray into the cantilever arm and bend tabs with screwdriver to secure, as shown in the FAS diagram

### ■ Dimensions and weights

**30 → 54 mm 100 → 300 mm**




| Cat. Nos. | L mm | H mm | F daN | Weight (kg) GS | GC |
|---|---|---|---|---|---|
| **CLN100** | 100 | 125 | 95 | 0·16 | 0·20 |
| **CLN150** | 150 | 125 | 70 | 0·19 | 0·23 |
| **CLN200** | 200 | 125 | 40 | 0·23 | 0·27 |
| **CLN300** | 300 | 125 | 25 | 0·29 | 0·33 |

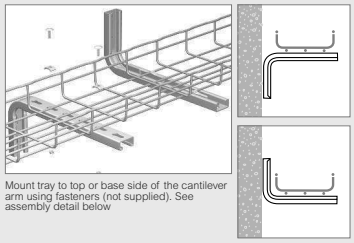
**Please use Cat. No. when placing your order, see p. 23**

All weights are given in Kilograms (kg)

## ■ CC21S – cantilever arms

Use to support 100 mm to 400 mm wide steel wire cable tray in 30 mm to 105 mm depths. Can be wall mounted using fasteners (see below) or pendant drop mounted. Supplied singly without fasteners

### ■ Installation



Mount tray to top or base side of the cantilever arm using fasteners (not supplied). See assembly detail below

### ■ Assembly

**Securing CC21S to steel wire cable tray**



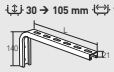
Secure to steel wire cable tray using FASTRUT 41 when grooved edge is facing upwards




Secure to steel wire cable tray using fasteners when flat surface is facing upwards

### ■ Dimensions and weights

**30 → 105 mm 100 → 400 mm**




| Cat. Nos. | L mm | F daN | Weight (kg) GS | 316L |
|---|---|---|---|---|
| **CC21S150** | 150 | 135 | 0·33 | 0·36 |
| **CC21S200** | 200 | 108 | 0·39 | 0·42 |
| **CC21S300** | 300 | 80 | 0·46 | 0·50 |
| **CC21S400** | 400 | 92 | 0·55 | 0·59 |

**Please use Cat. No. when placing your order, see p. 23**

All weights are given in Kilograms (kg)

**Key :** GS Pre-galvanised | 316L Stainless steel 316L | GC Hot dip galvanised after manufacture

For detailed information related to finishes, refer to **p. 116-117**

All dimensions (mm) are nominal

# wall mounting – horizontal or vertical mounting
**R15/25/35 – R55**

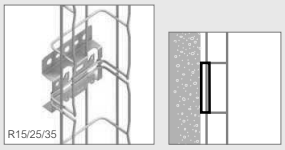


## ■ R15/25/35 – stand-off brackets – couplers
## R55 – stand-off brackets

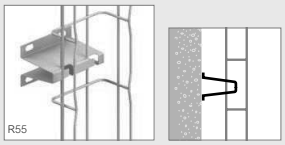
**R15/25/35 - stand-off brackets**
Use to fix 100 mm to 600 mm wide steel wire cable tray in 30 mm to 105 mm depths directly onto the wall. Can be used for horizontal and vertical mounting of cable tray runs. Can also be used for floor mounting (see p. 79) and as a base coupler (see p. 50). Incorporates slot and tab design for easy fixing. Supplied singly without fasteners

**R55 - stand-off brackets**
Use to fix 100 mm to 600 mm wide steel wire cable tray in 30 mm to 105 mm depths directly onto the wall. Can be used for horizontal and vertical mounting of cable tray runs. Can also be used for floor mounting (see p. 79). Incorporates slot and tab design for easy fixing. Supplied singly without fasteners

## ■ Installation




Mount directly onto wall using fasteners (not supplied). Vertical mounting of tray shown - horizontal mounting also possible




Mount directly onto wall using fasteners (not supplied). Vertical mounting of tray shown - horizontal mounting also possible

## ■ Assembly

**Securing R15/25/35/55 to steel wire cable tray**



FAST ASSEMBLING SYSTEM

Slot base wires of the tray into the cantilever arm and bend tabs with screwdriver to secure, as shown in the FAS diagram

Fast assembling

Fixing without nuts and bolts

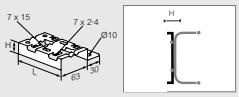
**NOTE :**
200 to 300 mm wide tray requires 2 x brackets mounted side by side across the width of the tray. 400 to 600 mm wide tray requires 3 x brackets

For base coupling : see p. 50

For floor mounting : see p. 79

## ■ Dimensions and weights

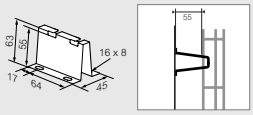
**R15/25/35 30 → 105 mm 100 → 600 mm**




| Cat. No. | H mm | L mm | F daN | Weight (kg) GS | Z+ | 316L |
|---|---|---|---|---|---|---|
| **R15/100** | 15 | 98 | 100 | 0·14 | 0·09 | 0·09 |
| **R15/300** | 15 | 300 | 100 | 0·38 | 0·41 | – |
| **R25** | 25 | 98 | 100 | 0·13 | 0·12 | – |
| **R35** | 35 | 98 | 50 | 0·15 | 0·14 | – |

**Please use Cat. No. when placing your order, see p. 23**
All weights are given in Kilograms (kg)

**R55 30 → 105 mm 100 → 600 mm**




| Cat. No. | H mm | F daN | Weight (kg) GS | Z+ | 316L |
|---|---|---|---|---|---|
| **R55** | 55 | 45 | 0·12 | 0·12 | 0·12 |

**Please use Cat. No. when placing your order, see p. 23**
All weights are given in Kilograms (kg)

**Key :** GS Pre-galvanised; Z+ Continuous galvanisation before manufacture; 316L Stainless steel 316L

For detailed information related to finishes, refer to **p. 116-117**

All dimensions (mm) are nominal

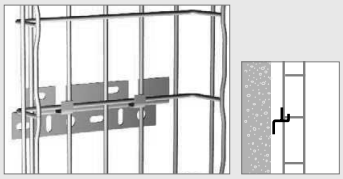
# wall mounting – vertical mounting
**FV1**



## ■ FV1 – mounting bracket

Use to fix 100 mm to 600 mm wide steel wire cable tray in 30 mm to 105 mm depths directly onto the wall. Can be used for vertical mounting of cable tray runs. Incorporates slot and tab design for easy fixing. Supplied singly without fasteners

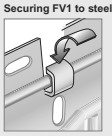
## ■ Installation



Mount directly onto wall using fasteners (not supplied)

## ■ Assembly

**Securing FV1 to steel wire cable tray**





Fast assembling | Fixing without nuts and bolts

Bend tabs with screwdriver or pliers to secure FV1 to base of tray

## ■ Dimensions and weights

**30 → 105 mm 100 → 600 mm**




| Cat. No. | daN | Weight (kg) GS | DC | 316L |
|---|---|---|---|---|
| FV1 | 100 | 0·31 | 0·31 | 0·25 |

**Please use Cat. No. when placing your order, see p. 23**

All weights are given in Kilograms (kg)

**Key :** GS Pre-galvanised | 316L Stainless steel 316L | DC Geomet

For detailed information related to finishes, refer to **p. 116-117**

All dimensions (mm) are nominal

# wall mounting – horizontal or vertical mounting

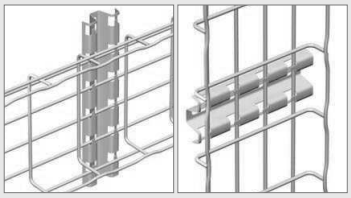
**RCSN**

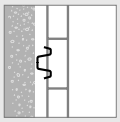


## ■ RCSN – fast fix support rails

Use to fix 100 mm to 600 mm wide steel wire cable tray in 30 mm to 105 mm depths directly onto the wall. Can be used for horizontal and vertical mounting of cable tray runs. Can also be used for ceiling mounting (see. p. 71) and for floor mounting (see p. 78, 82)
Incorporates slot and tab design for easy fixing. Supplied singly without fasteners

## ■ Installation





Mount directly onto wall using fasteners (not supplied) to run tray in a vertical or horizontal direction

## ■ Assembly

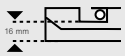


FAST ASSEMBLING SYSTEM

Fast assembling

Fixing without nuts and bolts

Slot base wires of the tray into the support rail and bend tabs with screwdriver to secure, as shown in the FAS diagram above



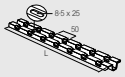

16 mm spacing from underside of base wire to wall

For ceiling mounting : see p. 71

For floor mounting : see p. 78, 82

## ■ Dimensions and weights

30 → 105 mm 100 → 600 mm




| Cat. Nos. | L mm | F daN | Weight (kg) GS | GC | 304L | 316L |
|---|---|---|---|---|---|---|
| **RCSN150** | 150 | 100 | 0·16 | 0·17 | – | 0·16 |
| **RCSN200** | 200 | 100 | 0·23 | 0·23 | – | 0·22 |
| **RCSN300** | 300 | 100 | 0·33 | 0·36 | – | 0·33 |
| **RCSN400** | 400 | 100 | 0·38 | 0·49 | – | 0·45 |
| **RCSN500** | 500 | 100 | 0·54 | 0·61 | – | 0·59 |
| **RCSN550** | 550 | 100 | 0·63 | 0·65 | – | – |
| **RCSN600** | 600 | 100 | 0·67 | 0·70 | – | 0·69 |
| **RCSN1000** | 1 000 | 100 | 1·18 | 1·23 | – | 1·21 |
| **RCSN2000** | 2 000 | 100 | 2·20 | 2·42 | 2·30 | 2·30 |
| **RCSN3000** | 3 000 | 100 | 3·54 | 3·78 | 3·65 | 3·65 |

**Please use Cat. No. when placing your order, see p. 24**

All weights are given in Kilograms (kg)

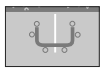
**Key :** GS Pre-galvanised; GC Hot dip galvanised after manufacture; 304L Stainless steel 304L; 316L Stainless steel 316L

For detailed information related to finishes, refer to **p. 116-117**

All dimensions (mm) are nominal

# ceiling mounting – central hangers

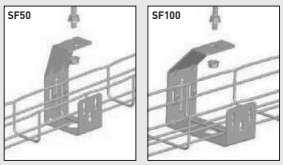
**SF50 – SF100 – SL50**



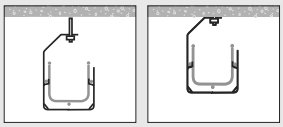
## ■ SF50 – SF100 – central hangers

Used with threaded rod and fasteners to form a central hanger to suspend steel wire cable tray from ceiling. Can also be bolted directly to the ceiling
Use SF50 for 50 mm wide steel wire cable tray in 30 mm and 54 mm depths and SF100 for 100mm wide tray in 30 mm and 54 mm depths
Incorporates slot and tab design for easy fixing
Supplied singly without fasteners

## ■ Installation




SF50 and SF100 used to suspend tray from ceiling with threaded rod and fasteners (not supplied). Provision of base hole enables easy access for installation

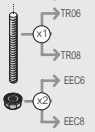


Suspended with threaded rod and fasteners (not supplied)

Bolted directly to ceiling. Fasteners not supplied

## ■ Assembly

**Suspending SF50 / SF100 from ceiling**




Use TR06 (M6 x 3m) or TR08 (M8 x 3m) threaded rod and 2 x EEC6 (6mm) or 2 x EEC8 (8mm) hex nuts (not supplied) to suspend SF50 / SF100 from ceiling

**Securing SF50 / SF100 to steel wire cable tray**

Side wires of the tray fix into bracket tabs. No additional fixings required to secure tray to bracket

Fast assembling

Fixing without nuts and bolts

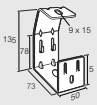
**Key :** GS Pre-galvanised; GC Hot dip galvanised after manufacture; 316L Stainless steel 316L

For detailed information related to finishes, refer to **p. 116-117**

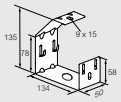
All dimensions (mm) are nominal

## ■ Dimensions and weights

**SF50**
**30 → 54 mm 50 mm**




**SF100**
**30 → 54 mm 100 mm**




| Cat. Nos. | L mm | F daN | Weight (kg) GS | GC | 316L |
|---|---|---|---|---|---|
| **SF50** | 73 | 30 | 0·22 | 0·24 | 0·22 |
| **SF100** | 134 | 26 | 0·49 | 0·70 | 0·49 |

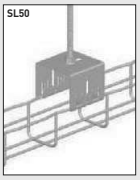
**Please use Cat. No. when placing your order, see p. 25**

All weights are given in Kilograms (kg)

## ■ SL50 – multifix base plate

Use as a central hanger to suspend 50 mm wide steel wire cable tray
Supplied singly. Threaded rod and fasteners not supplied

## ■ Installation and assembly




SL50 clips onto the side rail of the tray. No fasteners required to secure bracket to tray

## ■ Dimensions and weights

**SL 50**
**30 → 54 mm 50 mm**



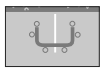

| Cat. No. | H mm | F daN | Weight (kg) GS |
|---|---|---|---|
| **SL50** | 56 | 150 | 0·19 |

**Please use Cat. No. when placing your order, see p. 25**

All weights are given in Kilograms (kg)

# ceiling mounting – central hangers

**CEQ – UC50**

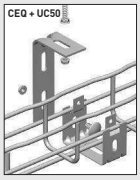


## ■ CEQ – central hanger brackets + UC50 – support cradles

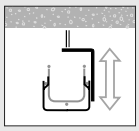
**CEQ - central hanger brackets**
Use with UC50, threaded rod and fasteners to form a central hanger to suspend 50 mm wide steel wire cable tray in 30 mm and 54 mm depths from the ceiling
Supplied singly without fasteners

**UC50 - support cradles**
Use as a support cradle for 50 mm wide steel wire cable tray in 30 mm or 54 mm depths
Can be ceiling mounted in conjunction with CEQ or floor mounted (see p. 80).
Can also be mounted directly onto the wall - horizontally or vertically, or onto 41 mm channel profiles (see p. 52)
Supplied singly without fasteners

## ■ Installation



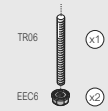

CEQ + UC50 used to suspend tray from ceiling with threaded rod and fasteners (not supplied)



Slot alignment allows for onsite adjustment

## ■ Assembly

**Suspending CEQ + UC50 from ceiling**



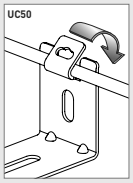

Use TR06 (M6 x 3m) threaded rod and 2 x EEC6 (6mm) hex nuts (not supplied) to suspend CEQ from ceiling

**Securing UC50 to CEQ**




Use 1 x BTRCC (not supplied) to attach UC50 to CEQ, as shown in the side view illustration

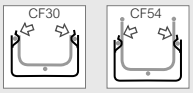
**Securing UC50 to steel wire cable tray**






Fast assembling

Fixing without nuts and bolts




Bend tabs with screwdriver or pliers to secure UC50 to side rail of tray

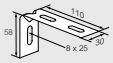
For wall mounting : see p. 52

For floor mounting : see p. 80

## ■ Dimensions and weights

**30 → 54 mm 50 mm**

**CEQ**




**UC50**




| Cat. Nos. | daN | Weight (kg) GS | GC | 304L | 316L |
|---|---|---|---|---|---|
| CEQ | 12 | 0·08 | 0·08 | – | 0·08 |
| UC50 | 12 | 0·06 | 0·07 | 0·06 | 0·06 |

**Please use Cat. No. when placing your order, see p. 25**

All weights are given in Kilograms (kg)

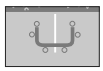
**Key :**
- GS Pre-galvanised
- GC Hot dip galvanised after manufacture
- 304L Stainless steel 304L
- 316L Stainless steel 316L

For detailed information related to finishes, refer to **p. 116-117**

All dimensions (mm) are nominal

# ceiling mounting – central hangers

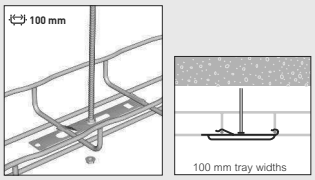
**SAS**



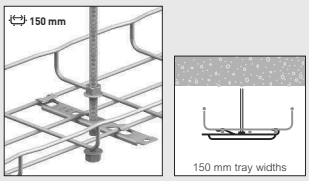
## ■ SAS – suspension hangers

Use with threaded rod and fasteners to form a central hanger to suspend 100 mm and 150 mm wide steel wire cable tray in 30 mm and 54 mm depths from the ceiling
Incorporates slot and tab design for easy fixing
Supplied singly without fasteners

## ■ Installation



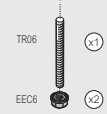

Mount SAS along the length of the tray when using 100 mm wide steel wire cable tray
Use with threaded rod and fasteners (not supplied)




Mount SAS across the width of the tray when using 150 mm wide steel wire cable tray. Use with threaded rod and fasteners (not supplied)
Note :
The threaded rod will sit off centre due to the position of the base wire in the tray length

## ■ Assembly

**Suspending SAS from ceiling**




Use TR06 (M6 x 3m) threaded rod and 2 x EEC6 (6mm) hex nuts (not supplied) to suspend SAS from ceiling

**Securing SAS to steel wire cable tray**



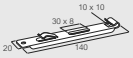

Fast assembling


Fixing without nuts and bolts

Base wires of the tray fix into hanger tabs. No additional fixings required to secure tray to SAS hanger
Use blade of screwdriver to click SAS firmly into place

## ■ Dimensions and weights

**30 → 54 mm 100 → 150 mm**




| Cat. No. | F daN | Weight (kg) EZ | Weight (kg) DC |
|---|---|---|---|
| SAS | 60 | 0·03 | 0·03 |

**Please use Cat. No. when placing your order, see p. 25**

All weights are given in Kilograms (kg)

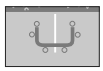
**Key :**
EZ Electrogalvanising after manufacture
DC Geomet

For detailed information related to finishes, refer to **p. 116-117**

All dimensions (mm) are nominal

# ceiling mounting – central hangers

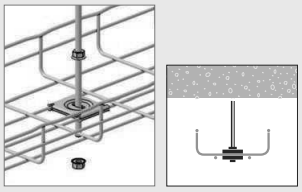
**CE40 – CM50XL**



## ■ CE40 – hold down clamps (used as hangers)

Use in a pair with threaded rod and fasteners to form a central hanger to suspend 100 mm to 200 mm wide steel wire cable tray in 30 mm and 54 mm depths from the ceiling
Supplied in packs of 25 without fasteners

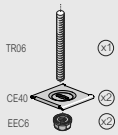
### ■ Installation



CE40 used to suspend tray from ceiling with threaded rod and fasteners (not supplied)

### ■ Assembly

**Suspending CE40 from ceiling**



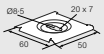

Use TR06 (M6 x 3m) threaded rod and 2 x EEC6 (6mm) hex nuts (not supplied) to suspend CE40 from ceiling

**Securing CE40 to steel wire cable tray**

Use 2 x CE40, one on the top side and one to the underside of the tray. Secure with 2 x EEC6 hex nuts, as shown above

### ■ Dimensions and weights

**30 → 54 mm 100 → 200 mm**




| Cat. No. | daN | Weight (kg) EZ | DC | 304L | 316L |
|---|---|---|---|---|---|
| CE40 | 100 | 0·04 | 0·04 | 0·04 | 0·04 |

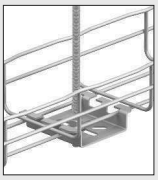
**Please use Cat. No. when placing your order, see p. 25**

All weights are given in Kilograms (kg)

## ■ CM50XL – universal mounting plates (large)

Use with threaded rod and fasteners to form a central hanger to suspend 100 mm to 200 mm wide steel wire cable tray in 30 mm and 54 mm depths from the ceiling
Can also be used for horizontal and vertical wall mounting of cable tray runs (see p. 55) and for floor mounting (see p. 78)
Incorporates slot and tab design for easy fixing. Supplied singly without fasteners

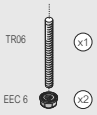
### ■ Installation



CM50XL used to suspend tray from ceiling with threaded rod and fasteners (not supplied)

### ■ Assembly

**Suspending CM50XL from ceiling**




Use TR06 (M6 x 3m) threaded rod and 2 x EEC6 (6mm) hex nuts (not supplied) to suspend CM50XL from ceiling

**Securing CM50XL to steel wire cable tray**



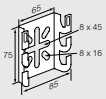
Bend tabs using a flat blade screwdriver or pair of pliers to secure to steel wire cable tray

Fast assembling

Fixing without nuts and bolts

### ■ Dimensions and weights

**30 → 54 mm 100 → 200 mm**




| Cat. No. | daN | Weight (kg) GS | GC | 304L | 316L |
|---|---|---|---|---|---|
| CM50XL | 100 | 0·10 | 0·11 | 0·08 | 0·08 |

**Please use Cat. No. when placing your order, see p. 25**

All weights are given in Kilograms (kg)

**Key :**
- EZ Electrogalvanising after manufacture
- DC Geomet
- GS Pre-galvanised
- 304L Stainless steel 304L
- 316L Stainless steel 316L

For detailed information related to finishes, refer to **p. 116-117**

All dimensions (mm) are nominal

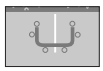
→ To create radius bends : see p. 99-103

→ For wall mounting : see p. 55

→ For floor mounting : see p. 78

# ceiling mounting – central hangers

**SCF – PFSCF – EXT-SCF**



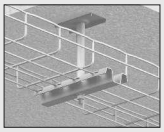
## ■ SCF – central hangers + PFSCF – locating ceiling plate + EXT-SCF – rod sheaths

**SCF - central hangers**
Use with threaded rod and fasteners to form a central hanger to suspend 200 mm to 600 mm wide steel wire cable tray in 30 mm and 54 mm depths from the ceiling. Incorporates slot and tab design for easy fixing. Used in conjunction with PFSCF locating ceiling plate and EXT-SCF rod sheath. Supplied singly without fasteners

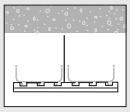
**PFSCF - locating ceiling plate**
Locating plate for use with SCF. Supplied singly without fasteners

**EXT-SCF - rod sheaths**
Extension rod sheath for use with SCF. EXT-SCF helps to protect cables from damage. Supplied singly without fasteners

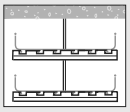
## ■ Installation



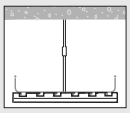
SCF central hanger in situ with PFSCF locating ceiling plate and EXT-SCF rod sheath covering threaded rod



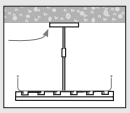
SCF can support 2 x tray runs up to 200 mm wide side by side



2 x SCF can be used in a tier arrangement



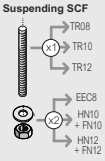
EXT-SCF can be used with threaded rod of any length



PFSCF can be used to spread the load and further stabilise the installation

## ■ Assembly

**Suspending SCF from ceiling**




**Installation steps**

1) Install threaded rod into ceiling fixing, such as ceiling anchor (not supplied)
2) On floor level, assemble wire mesh onto SCF
3) Attach EXT-SCF rod sheath and PFSCF locating ceiling plate to SCF central hanger
4) Offer assembly up to pre-fitted threaded rod
5) Secure assembly with washers and hexagon nuts

## ■ Assembly (continued)

**Securing SCF to steel wire cable tray**



Slot base wires of the tray into the SCF hanger and bend tabs with screwdriver to secure, as shown in the FAS diagram



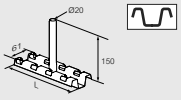
Fast assembling



Fixing without nuts and bolts

## ■ Dimensions and weights

**SCF – 30 → 54 mm 200 → 600 mm**




| Cat. Nos. | L mm | daN | daN | Weight (kg) GS |
|---|---|---|---|---|
| SCF200 | 194 | 200 | 37 | 0·27 |
| SCF300 | 294 | 160 | 29 | 0·39 |
| SCF400 | 394 | 141 | 23 | 0·51 |
| SCF450 | 444 | 130 | 20 | 0·57 |
| SCF500 | 494 | 121 | 20 | 0·64 |
| SCF600 | 594 | 99 | 19 | 0·78 |

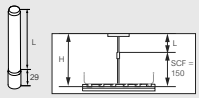
**Please use Cat. No. when placing your order, see p. 26**
All weights are given in Kilograms (kg)

**PFSCF – 30 → 54 mm 200 → 600 mm**




| Cat. No. | L mm | Weight (kg) GS |
|---|---|---|
| PFSCF | 100 | 0·08 |

**EXT-SCF – 30 → 54 mm 200 → 600 mm**




| Cat. Nos. | L mm | H mm | Weight (kg) GS |
|---|---|---|---|
| EXT-SCF50 | 50 | 200 | 0·10 |
| EXT-SCF100 | 100 | 250 | 0·11 |
| EXT-SCF150 | 150 | 300 | 0·12 |
| EXT-SCF325 | 325 | 475 | 0·20 |

**Please use Cat. No. when placing your order, see p. 26**
All weights are given in Kilograms (kg)

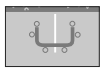
**Key :** GS Pre-galvanised

For detailed information related to finishes, refer to **p. 116-117**

All dimensions (mm) are nominal

# ceiling mounting – central hangers

**UCS – RCSN**

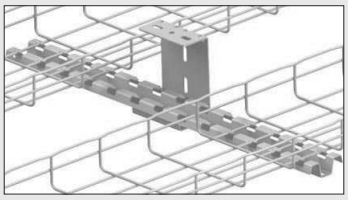


## ■ UCS – ceiling support brackets + RCSN – fast fix support rails

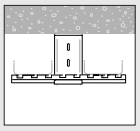
**UCS - ceiling support brackets**
Use with RCSN or channel to form a central hanger to suspend 2 parallel runs of 50 mm (100 mm using RSCN) to 300 mm wide steel wire cable tray in 30 mm and 54 mm depths from the ceiling
Supplied singly without fasteners

**RCSN - fast fix support rails**
Use with UCS (above) or threaded rod to form a central hanger to suspend steel wire cable tray from the ceiling. Can also be used for horizontal and vertical wall mounting of cable tray runs (see p. 65) and for floor mounting (see p. 78)
Incorporates slot and tab design for easy fixing. Supplied singly without fasteners

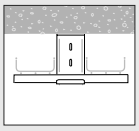
## ■ Installation



UCS ceiling support bracket + RCSN fast fix support rail to support 2 x parallel runs of steel wire cable tray from the ceiling



UCS and RCSN supporting parallel runs of cable tray



UCS and channel supporting parallel runs of cable tray

## ■ Assembly

**Suspending UCS + RCSN from ceiling**

BTRL 8 x 15




Use BTRL 8 x 15 fasteners to secure RCSN support rail or channel support to UCS

**Securing RCSN to steel wire cable tray**



FASTLOT
FAST ASSEMBLING SYSTEM



Fast assembling



Fixing without nuts and bolts

Slot base wires of the tray into the RCSN support rail and bend tabs with screwdriver to secure, as shown in the FAS diagram above

→ For wall mounting : see p. 65

→ For floor mounting : see p. 78

## ■ Assembly (continued)

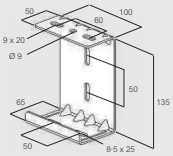
**Securing channel support to steel wire cable tray**



Use FASTRUT 41 (see p. 18) to secure steel wire cable tray to channel lengths

## ■ Dimensions and weights

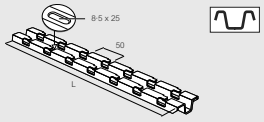
**UCS – 30 → 54 mm 50 → 300 mm**




| Cat. Nos. | L mm | daN.m | Weight (kg) GS | GC | 316L |
|---|---|---|---|---|---|
| **UCS** | 100 | 18 | 0·51 | 0·51 | 0·51 |

**Please use Cat. No. when placing your order, see p. 26**
All weights are given in Kilograms (kg)

**RCSN – 30 → 105 mm 100 → 600 mm**




| Cat. No. | L mm | Weight (kg) GS | GC | 304L | 316L |
|---|---|---|---|---|---|
| **RCSN150** | 150 | 0·16 | 0·17 | – | 0·16 |
| **RCSN200** | 200 | 0·23 | 0·23 | – | 0·22 |
| **RCSN300** | 300 | 0·33 | 0·36 | – | 0·33 |
| **RCSN400** | 400 | 0·38 | 0·49 | – | 0·45 |
| **RCSN500** | 500 | 0·54 | 0·61 | – | 0·59 |
| **RCSN550** | 550 | 0·63 | 0·65 | – | – |
| **RCSN600** | 600 | 0·67 | 0·70 | – | 0·69 |
| **RCSN1000** | 1 000 | 1·18 | 1·23 | – | 1·21 |
| **RCSN2000** | 2 000 | 2·20 | 2·42 | 2·30 | 2·30 |
| **RCSN3000** | 3 000 | 3·54 | 3·78 | 3·65 | 3·65 |

**Please use Cat. No. when placing your order, see p. 27**
All weights are given in Kilograms (kg)

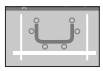
**Key :**
- GS Pre-galvanised
- GC Hot dip galvanised after manufacture
- 304L Stainless steel 304L
- 316L Stainless steel 316L

For detailed information related to finishes, refer to **p. 116-117**

All dimensions (mm) are nominal

# ceiling mounting – trapeze

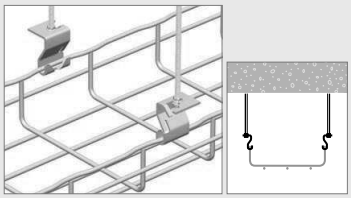
**AS**



## ■ AS – suspension hooks

Use with threaded rod and fasteners to form a trapeze hanger to suspend 100 mm to 600 mm wide steel wire cable tray in 30 mm to 105 mm depths from the ceiling. Supplied singly without fasteners

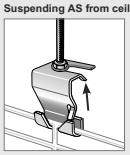
## ■ Installation



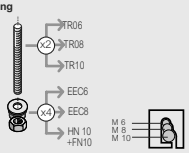
AS suspension hook suspending wire tray from the ceiling with threaded rod and fasteners (not supplied)

## ■ Assembly

**Suspending AS from ceiling**



Bend tab upwards to lock threaded rod into place




Use TR06 / 08 or 10 (M6 / M8 / M10 x 3m) threaded rod and 4 x EEC6 / 8 or 10 (6 / 8 or 10mm) hex nuts (not supplied) to suspend AS from ceiling

**Securing AS to steel wire cable tray**



Bend tab upwards to lock side bar of tray into place



Fast assembling



Fixing without nuts and bolts

**Key :** GS Pre-galvanised · DC Geomet · 316L Stainless steel 316L

For detailed information related to finishes, refer to **p. 116-117**

All dimensions (mm) are nominal

## ■ Dimensions and weights

**30 → 105 mm 100 → 600 mm**




| Cat. Nos. | F daN | Weight (kg) GS | DC | 316L |
|---|---|---|---|---|
| AS | 100 | 0·04 | 0·05 | 0·04 |

**Please use Cat. No. when placing your order, see p. 26**

All weights are given in Kilograms (kg)

# ceiling mounting – profile
**CSNC**

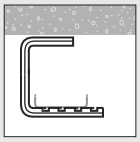
## ■ CSNC – profile roof cantilever arms

Use to support 100 mm to 450 mm wide steel wire cable tray in 30 mm to 105 mm depths. Can be mounted directly to the ceiling using fasteners (not supplied) to form a pendant drop or can be wall mounted (see p. 57). Incorporates slot and tab design for easy fixing
Supplied singly without fasteners

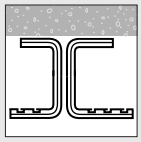
## ■ Installation



Mount directly onto ceiling using fasteners (not supplied).



Support single runs of steel wire cable tray using one ceiling mounted cantilever arm



Mount cantilever arms back to back to run two horizontal runs of steel wire cable tray

## ■ Assembly

**Securing CSNC cantilever arm to steel wire cable tray**




Slot base wires of the tray into the cantilever arm and bend tabs with screwdriver to secure, as shown in the FAS diagram above

Patented

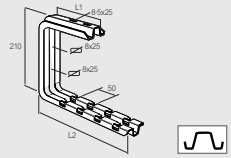
Fast assembling

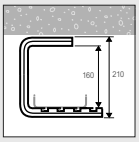
Fixing without nuts and bolts

For wall mounting : see p. 57

## ■ Dimensions and weights

**30 → 105 mm 100 → 450 mm**




| Cat. Nos. | L1 mm | L2 mm | F daN | Weight (kg) GS | GC | 316L |
|---|---|---|---|---|---|---|
| **CSNC100** | 170 | 178 | 120 | 0·57 | 0·65 | 0·60 |
| **CSNC150** | 170 | 228 | 100 | 0·63 | 0·72 | 0·67 |
| **CSNC200** | 170 | 278 | 80 | 0·68 | 0·80 | 0·72 |
| **CSNC300** | 288 | 378 | 70 | 1·30 | 1·35 | – |
| **CSNC400** | 288 | 478 | 48 | 1·36 | 1·38 | – |
| **CSNC450** | 288 | 528 | 44 | 1·40 | 1·47 | – |

**Please use Cat. No. when placing your order, see p. 26**
All weights are given in Kilograms (kg)

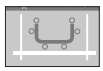
**Key :** GS Pre-galvanised; GC Hot dip galvanised after manufacture; 316L Stainless steel 316L

For detailed information related to finishes, refer to **p. 116-117**

All dimensions (mm) are nominal

# ceiling mounting – trapeze

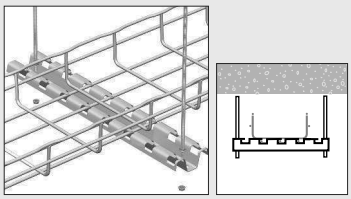
**RCSN**



## ■ RCSN – fast fix support rails

Use with threaded rod and fasteners to form a trapeze hanger to suspend 100 mm to 600 mm wide steel wire cable tray in 30 mm to 105 mm depths from the ceiling
Can be mounted directly onto the wall (see p. 65) or floor mounted (see p. 78)
Incorporates slot and tab design for easy fixing. Supplied singly without fasteners

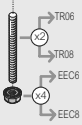
## ■ Installation



RCSN support rails suspending wire tray from the ceiling with threaded rod and fasteners (not supplied)

## ■ Assembly

**Suspending RSCN from ceiling**




Use 2 x TR06 or TR08 (M6 / M8 x 3m) threaded rod and 4 x EEC6 or EEC8 (6 or 8mm) hex nuts (not supplied) to suspend RSCN from ceiling

**Securing RSCN support rail to steel wire cable tray**






Patented



Fast assembling



Fixing without nuts and bolts

FAST
FAST ASSEMBLING SYSTEM

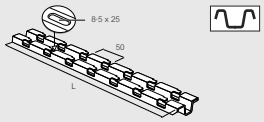
Slot base wires of the tray into the cantilever arm and bend tabs with screwdriver to secure, as shown in the FAS diagram above

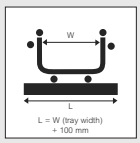
For wall mounting : see p. 65

For floor mounting : see p. 78

## ■ Dimensions and weights

**30 → 105 mm 100 → 600 mm**




To select the correct size RCSN for trapeze hanging, add 100 mm to the chosen tray width to allow for fixing of threaded rod either side of the tray, e.g. if using 200 mm wide tray, use a 300 mm wide RCSN

| Cat. No. | L mm | Weight (kg) GS | GC | 304L | 316L |
|---|---|---|---|---|---|
| **RCSN150** | 150 | 0·16 | 0·17 | – | 0·16 |
| **RCSN200** | 200 | 0·23 | 0·23 | – | 0·22 |
| **RCSN300** | 300 | 0·33 | 0·36 | – | 0·33 |
| **RCSN400** | 400 | 0·38 | 0·49 | – | 0·45 |
| **RCSN500** | 500 | 0·54 | 0·61 | – | 0·59 |
| **RCSN550** | 550 | 0·63 | 0·65 | – | – |
| **RCSN600** | 600 | 0·67 | 0·70 | – | 0·69 |
| **RCSN1000** | 1 000 | 1·18 | 1·23 | – | 1·21 |
| **RCSN2000** | 2 000 | 2·20 | 2·42 | 2·30 | 2·30 |
| **RCSN3000** | 3 000 | 3·54 | 3·78 | 3·65 | 3·65 |

**Please use Cat. No. when placing your order, see p. 27**

All weights are given in Kilograms (kg)

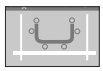
**Key :**
- GS Pre-galvanised
- GC Hot dip galvanised after manufacture
- 304L Stainless steel 304L
- 316L Stainless steel 316L

For detailed information related to finishes, refer to **p. 116-117**

All dimensions (mm) are nominal

# ceiling mounting – trapeze

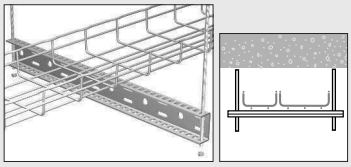
**EDF**



## ■ EDF – profile pendants / mounting rails

Use with threaded rod and fasteners to form a trapeze hanger to suspend 100 mm to 600 mm wide steel wire cable tray in 30 mm to 105 mm depths from the ceiling or use with PFREDF to form a pendant installation (opposite).
Can be mounted directly onto the wall for use with cantilever arms (see p. 58)
Supplied singly without fasteners

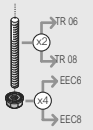
## ■ Installation



EDF mounting rails suspending wire tray from the ceiling with threaded rod and fasteners (not supplied)

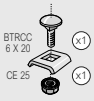
## ■ Assembly

**Suspending EDF from ceiling - trapeze mounting**




Use 2 x TR06 or TR08 (M6 / M8 x 3m) threaded rod and 4 x EEC6 or EEC8 (6 or 8mm diameter) hex nuts (not supplied) to suspend EDN from ceiling

**Securing EDF mounting rail to steel wire cable tray**

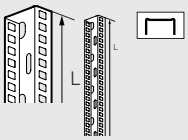


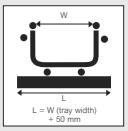

Use 1 x BTRCC 6 x 20 and 1 x CE25 to to secure 50 mm to 200 mm tray EDF
For 300 mm to 600 mm tray use 2 x BTRCC 6 x 20 and 2 x CE25

For wall mounting : see p. 58

## ■ Dimensions and weights

**30 → 105 mm 100 → 600 mm**




To cut the correct size EDF for trapeze hanging, add 50 mm to the chosen tray width to allow for fixing of threaded rod either side of the tray, e.g. if using 200 mm wide tray, cut EDF to 250 mm wide

| Cat. No. | L mm | Weight (kg) GS | GC | 304L | 316L |
|---|---|---|---|---|---|
| EDF2000 | 2000 | 2·40 | 2·56 | 2·48 | 2·48 |

**Please use Cat. No. when placing your order, see p. 27**
All weights are given in Kilograms (kg)

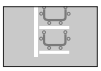
**Key :** GS Pre-galvanised; GC Hot dip galvanised after manufacture; 304L Stainless steel 304L; 316L Stainless steel 316L

For detailed information related to finishes, refer to **p. 116-117**

All dimensions (mm) are nominal

# ceiling mounting – pendant

**PFREDF**



## ■ PFREDF – pendant mounting plates
## EDF – profile pendants / mounting rails

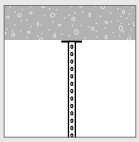
**PFREDF**
Use as a ceiling mounting plate in conjunction with EDF to form a pendant drop to suspend 100 mm to 600 mm wide steel wire cable tray in 30 mm to 105 mm depths from the ceiling via cantilever arms (see p. 56-62).
Incorporates slot and tab design for easy fixing of EDF
Supplied singly without fasteners

**EDF**
Use with threaded rod and fasteners to form a trapeze hanger to suspend 100 mm to 600 mm wide steel wire cable tray in 30 mm to 105 mm depths from the ceiling or use with PFREDF to form a pendant installation (opposite).
Can be mounted directly onto the wall for use with cantilever arms (see p. 58)
Supplied singly without fasteners

## ■ Installation

PFREDF with EDF





PFREDF pendant mounting plate with EDF mounting rail. Secure to ceiling using fasteners (not supplied)



Cantilever arms can be mounted to one side of the EDF mounting rail.
See p. 56-62

## ■ Assembly

**Suspending EDF from ceiling - pendant mounting**



Bend tabs to secure to PRFEDF pendant mounting plate to EDF mounting rail.
No fasteners required



Fast assembling



Fixing without nuts and bolts

For cantilever arms : see p. 56-62

## ■ Dimensions and weights

**30 → 105 mm 100 → 600 mm**




| Cat. No. | daN.m | Weight (kg) GS | Weight (kg) 316L |
|---|---|---|---|
| PFREDF | 18 | 0.51 | 0.51 |

**Please use Cat. No. when placing your order, see p. 27**
All weights are given in Kilograms (kg)

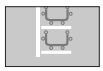
**Key :** GS Pre-galvanised — 316L Stainless steel 316L

For detailed information related to finishes, refer to **p. 116-117**

All dimensions (mm) are nominal

# ceiling mounting – pendant

**RE41SP – PFR41S**

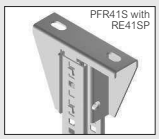


## ■ RE41SP – pendants / mounting rails (heavy duty)
## PFR41S – pendant mounting plates (heavy duty)

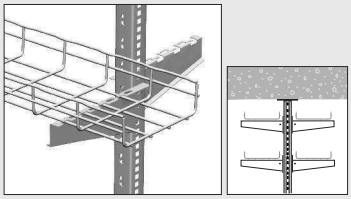
**RE41SP**
Use with PFR41S to form pendant drop to suspend 100 mm to 600 mm wide steel wire cable tray in 30 mm to 105 mm depths from the ceiling
Supplied singly without fasteners

**PFR41S**
Use as a ceiling mounting plate in conjunction with EDF to form a pendant drop to suspend 100 mm to 600 mm wide steel wire cable tray in 30 mm to 105 mm depths from the ceiling via cantilever arms (see p. 56-62)
Incorporates slot and tab design for easy fixing of EDF
Supplied singly without fasteners

## ■ Installation




PFR41S pendant mounting plate with RE41SP mounting rail. Secure to ceiling using fasteners (not supplied)



Cantilever arms can be mounted to both sides of the RE41SP mounting rail. Fast fit CG cantilever arms shown (see p. 56-62 for full range)

## ■ Assembly

**Suspending RE41SP from ceiling - pendant mounting**





Fast assembling

Fixing without nuts and bolts

FAST FAST ASSEMBLING SYSTEM

Bend tabs to secure PFR41S pendant mounting plate to RE41SP mounting rail
No fasteners required

## ■ Dimensions and weights

**RE41SP 30 → 105 mm 100 → 600 mm**

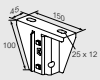





| Cat. Nos. | L mm | mm | Weight (kg) GS |
|---|---|---|---|
| **RE41SP500** | 500 | 2 | 1·30 |
| **RE41SP800** | 800 | 2 | 1·90 |
| **RE41SP1000** | 1000 | 2 | 2·60 |
| **RE41SP3000** | 3000 | 2 | 7·90 |

**Please use Cat. No. when placing your order, see p. 27**
All weights are given in Kilograms (kg)

**PFR41S**




Patented

| Cat. Nos. | daN.m | Weight (kg) GS |
|---|---|---|
| **PFR41S** | 45 | 0·69 |

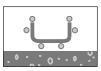
**Please use Cat. No. when placing your order, see p. 27**
All weights are given in Kilograms (kg)

**Key :** GS Pre-galvanised

For detailed information related to finishes, refer to **p. 116-117**

All dimensions (mm) are nominal

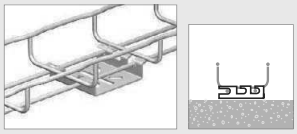
# floor mounting
**CM50XL – RCSN**



## ■ CM50XL – universal mounting plates (large)

Use to fix 100 mm to 600 mm wide steel wire cable tray in 30 mm to 150 mm depths directly to the floor
For 200 mm and 300 mm wide tray, use 2 x CM50XL per length
For 400 mm to 600 mm wide tray, use 3 x CM50XL per length
Can also be used for wall mounting (see p. 55) and to suspend cable tray runs from the ceiling (see p. 69)
Incorporate slot and tab design for easy fixing. Supplied singly without fasteners

### ■ Installation



Mount tray runs on the floor using CM50XL and fasteners (not supplied)

### ■ Assembly

**Securing CM50XL to steel wire cable tray**



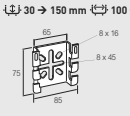
Fast assembling

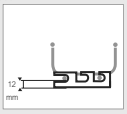
Fixing without nuts and bolts

Bend tabs with pliers or screwdriver to secure to steel wire cable tray

### ■ Dimensions and weights

**30 → 150 mm 100 → 600 mm**




| Cat. No. | daN | Weight (kg) GS | GC | 304L | 316L |
|---|---|---|---|---|---|
| **CM50XL** | 100 | 0·10 | 0·11 | 0·08 | 0·08 |

**Please use Cat. No. when placing your order, see p. 28**

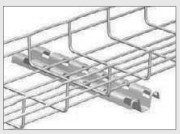
All weights are given in Kilograms (kg)

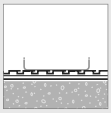
For wall mounting : see p. 55, 65

## ■ RCSN – fast fix support rails

Use to fix 100 mm to 600 mm wide steel wire cable tray in 30 mm to 150 mm depths directly to the floor
Can also be used for wall mounting (see p. 65) and to suspend cable tray runs from the ceiling (see p. 71, 74)
Incorporate slot and tab design for easy fixing. Supplied singly without fasteners

### ■ Installation





Mount tray runs on the floor using RCSN and fasteners (not supplied)

### ■ Assembly

**Securing RCSN to steel wire cable tray**



Patented

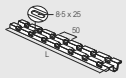
Fast assembling

Fixing without nuts and bolts

Slot base wires of the tray into the RCSN support rail and bend tabs with screwdriver to secure, as shown in the FAS diagram above

### ■ Dimensions and weights

**30 → 150 mm 100 → 600 mm**







16 mm spacing from underside of base wire to floor

| Cat. No. | L mm | Weight (kg) GS | GC | 304L | 316L |
|---|---|---|---|---|---|
| **RCSN150** | 150 | 0·16 | 0·17 | – | 0·16 |
| **RCSN200** | 200 | 0·23 | 0·23 | – | 0·22 |
| **RCSN300** | 300 | 0·33 | 0·36 | – | 0·33 |
| **RCSN400** | 400 | 0·38 | 0·49 | – | 0·45 |
| **RCSN500** | 500 | 0·54 | 0·61 | – | 0·59 |
| **RCSN550** | 550 | 0·63 | 0·65 | – | – |
| **RCSN600** | 600 | 0·67 | 0·70 | – | 0·69 |
| **RCSN1000** | 1 000 | 1·18 | 1·23 | – | 1·21 |
| **RCSN2000** | 2 000 | 2·20 | 2·42 | 2·30 | 2·30 |
| **RCSN3000** | 3 000 | 3·54 | 3·78 | 3·65 | 3·65 |

**Please use Cat. No. when placing your order, see p. 28**

All weights are given in Kilograms (kg)

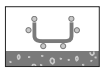
**Key :**
- GS Pre-galvanised
- GC Hot dip galvanised after manufacture
- 304L Stainless steel 304L
- 316L Stainless steel 316L

For detailed information related to finishes, refer to **p. 116-117**

All dimensions (mm) are nominal

For ceiling mounting : see p. 69, 71, 74

# floor mounting
**R15/25/35/300 – R55**

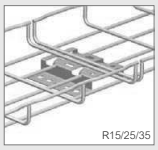


## ■ R15/25/35/300 – stand-off brackets
## R55 – stand-off brackets

**R15/25/35/300 - stand-off brackets**
Use to fix 100 mm to 600 mm wide steel wire cable tray in 30 mm to 150 mm depths directly onto the floor. For 200 mm and 300 mm wide tray, use 2 x brackets per length. For 400 mm to 600 mm wide tray, use 3 x brackets per length. Can also be used for wall mounting (see p. 63). Incorporate slot and tab design for easy fixing. Supplied singly without fasteners

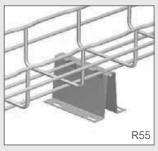
**R55 - stand-off brackets**
Use to fix 100 mm to 600 mm wide steel wire cable tray in 30 mm to 80 mm depths directly onto the floor. For 200 mm and 300 mm wide tray, use 2 x brackets per length. For 400 mm to 600 mm wide tray, use 3 x brackets per length. Can also be used for wall mounting (see p. 63). Incorporate slot and tab design for easy fixing. Supplied singly without fasteners

## ■ Installation






Mount tray runs on the floor using R15/25/35/300 and fasteners (not supplied)






Mount tray runs on the floor using R55 and fasteners (not supplied)

## ■ Assembly

**Securing stand-off brackets to steel wire cable tray**






Patented



Fast assembling



Fixing without nuts and bolts




Slot base wires of the tray into the stand-off bracket and bend tabs with screwdriver to secure, as shown in the FAS diagram above

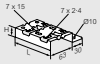
For wall mounting : see p. 63

For base coupling : see p. 50

## ■ Dimensions and weights

**R15/25/35/300** 30 → 105 mm 100 → 600 mm

R15/25/35/300



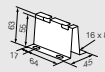


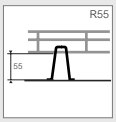


| Cat. No. | H mm | L mm | F daN | Weight (kg) GS | Z+ | 316L |
|---|---|---|---|---|---|---|
| **R15/100** | 15 | 98 | 100 | 0·14 | 0·09 | 0·09 |
| **R15/300** | 15 | 300 | 100 | 0·38 | 0·41 | – |
| **R25** | 25 | 98 | 100 | 0·13 | 0·12 | – |
| **R35** | 35 | 98 | 50 | 0·15 | 0·14 | – |

**Please use Cat. No. when placing your order, see p. 28**
All weights are given in Kilograms (kg)

**R55** 30 → 150 mm 100 → 600 mm




| Cat. No. | H mm | F daN | Weight (kg) GS | Z+ | 316L |
|---|---|---|---|---|---|
| **R55** | 55 | 45 | 0·12 | 0·12 | 0·12 |

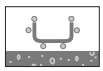
**Please use Cat. No. when placing your order, see p. 28**
All weights are given in Kilograms (kg)

**Key :** GS Pre-galvanised; Z+ Continuous galvanisation before manufacture; 316L Stainless steel 316L

For detailed information related to finishes, refer to **p. 116-117**

All dimensions (mm) are nominal

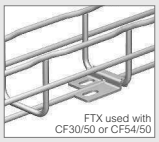
# floor mounting
**FTX – UC50**



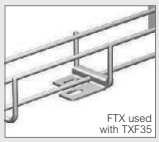
## ■ FTX – base fixing plates

Use to fix 35 mm to 600 mm wide steel wire cable tray in 30 mm to 105 mm depths directly onto the floor. For 200 mm and 300 mm wide tray, use 2 x brackets per length. For 400 mm to 600 mm wide tray, use 3 x brackets per length. Supplied singly without fasteners

## ■ Installation

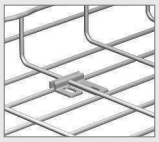


FTX used with CF30/50 or CF54/50



FTX used with TXF35

Attach FTX along the length of 50 mm wide tray and TXF35 tray. Secure to the floor using fasteners (not supplied)

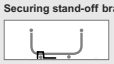




Attach FTX across the width of 100 mm to 600 mm wide tray. Secure to the floor using fasteners (not supplied)

## ■ Assembly

**Securing stand-off brackets to steel wire cable tray**



Click to secure to steel wire cable tray

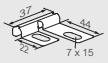
Patented

Fast assembling

Fixing without nuts and bolts

## ■ Dimensions and weights

**30/54/105 mm 35 → 600 mm**




| Cat. No. | Weight (kg) GS | DC | 316L |
|---|---|---|---|
| FTX | 0·25 | 0·20 | 0·20 |

**Please use Cat. No. when placing your order, see p. 29**

All weights are given in Kilograms (kg)

**Key :** GS Pre-galvanised; DC Geomet; 316L Stainless steel 316L

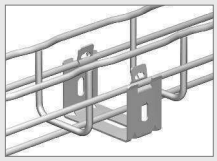
For detailed information related to finishes, refer to **p. 116-117**

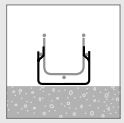
All dimensions (mm) are nominal

## ■ UC50 – support cradles

Use as a support cradle for 50 mm wide steel wire cable tray in 30 mm or 54 mm depths
Can also be used for wall mounting (see p. 52) and to suspend cable tray runs from the ceiling (see p. 67). Supplied singly without fasteners

## ■ Installation

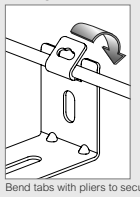




Mount directly onto floor using fasteners (not supplied)

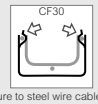
## ■ Assembly

**Securing UC50 to steel wire cable tray**



Fast assembling

Fixing without nuts and bolts



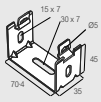




Bend tabs with pliers to secure to steel wire cable tray

## ■ Dimensions and weights

**30 → 54 mm 50 mm**




| Cat. Nos. | F daN | Weight (kg) GS | GC | 304L | 316L |
|---|---|---|---|---|---|
| UC50 | 12 | 0·06 | 0·07 | 0·06 | 0·06 |

**Please use Cat. No. when placing your order, see p. 29**

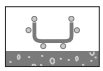
All weights are given in Kilograms (kg)

**Key :** GS Pre-galvanised; GC Hot dip galvanised after manufacture; 304L Stainless steel 304L; 316L Stainless steel 316L

For detailed information related to finishes, refer to **p. 116-117**

→ For ceiling mounting : see p. 67

# floor mounting
## UFC – CSN



### ■ UFC – clamp unit / CSN – profile cantilever arms

**UFC - clamp unit**
Use in conjunction with CSN cantilever arms or RCSN mounting rail (see p. 82) to clamp to underfloor pedestal supports, forming an underfloor support for steel wire cable tray runs
Supplied singly with U bolt and bolts

**CSN - profile cantilever arms**
Use to support 100 mm to 450 mm wide steel wire cable tray in 30 mm and 54 mm depths. Can be wall mounted (see p. 56) or pendant drop mounted using EDF mounting rail (see p. 76). Incorporate slot and tab design for easy fixing. Supplied singly without fasteners

**EPVCSN - end cap**
PVC end cap for CSN profile cantilever arms
Supplied singly

### ■ Installation






CSN is secured to UFC using U bolt and fasteners (supplied)

### ■ Assembly

**Securing CSN to steel wire cable tray**



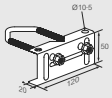
Patented | Fast assembling | Fixing without nuts and bolts

Slot base wires of the tray into the cantilever arm and bend tabs with screwdriver to secure, as shown in the FAS diagram above

For cantilever arms : see p. 56–62

### ■ Dimensions and weights

**UFC 30 → 105 mm 100 → 600 mm**

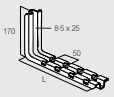



Note:
When used in conjunctions with CSN, tray widths and depths that can be supported by UFC are lower - see CSN below

| Cat. No. | Weight (kg) GS |
|---|---|
| UFC | 0·24 |

**Please use Cat. No. when placing your order, see p. 29**
All weights are given in Kilograms (kg)

**CSN 30 → 54 mm 100 → 450 mm**




EPVCSN

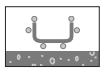
| Cat. Nos. | L mm | daN | Weight (kg) GS | GC | 304L | 316L |
|---|---|---|---|---|---|---|
| CSN100 | 178 | 30 | 0·37 | 0·40 | 0·40 | 0·40 |
| CSN150 | 228 | 110 | 0·42 | 0·47 | 0·41 | 0·41 |
| CSN200 | 278 | 85 | 0·47 | 0·53 | 0·51 | 0·51 |
| CSN300 | 378 | 73 | 0·73 | 0·76 | 0·64 | 0·64 |
| CSN400 | 478 | 56 | 0·82 | 0·92 | – | – |
| CSN450 | 528 | 50 | 0·91 | 0·97 | – | – |

**Please use Cat. No. when placing your order, see p. 21**
All weights are given in Kilograms (kg)

**Key :**
GS Pre-galvanised
GC Hot dip galvanised after manufacture
304L Stainless steel 304L
316L Stainless steel 316L
For detailed information related to finishes, refer to **p. 116-117**

All dimensions (mm) are nominal

# floor mounting
**UFC – RCSN**



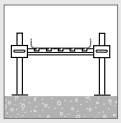
## ■ UFC – clamp unit / RCSN - fast fix support rails

**UFC - clamp unit**
Use in conjunction with RCSN mounting rail or CSN cantilever arms (see p. 81) to clamp to underfloor pedestal supports, forming an underfloor support for steel wire cable tray runs
Supplied singly with U bolt and nuts

**RCSN - fast fix support rails**
Use to support 100 mm to 600 mm wide steel wire cable tray in 30 mm to 105 mm depths. Use in conjunction with UFC or mount directly to the floor. Can also be wall mounted (see p. 65) or to form a trapeze hanger using threaded rod (see p. 74)
Incorporate slot and tab design for easy fixing. Supplied singly without fasteners

## ■ Installation


UFC with RCSN



RCSN is secured to UFC using U bolt and fasteners (supplied)
Note: if 600 mm floor spacing being used, use 550 mm RCSN or below



Mount RCSN directly onto floor using fasteners (not supplied)

## ■ Assembly

**Securing RCSN to UFC clamp unit**

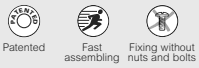





Rest RCSN on U bolt of UFC and secure down using 2 x BTRCC 6 x 20

**Securing RCSN to steel wire cable tray**






Patented — Fast assembling — Fixing without nuts and bolts

FAST
FAST ASSEMBLING SYSTEM

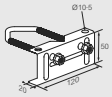
Slot base wires of the tray into RCSN and bend tabs with screwdriver to secure, as shown in the FAS diagram above

→ For wall mounting : see p. 65

→ For ceiling mounting : see p. 74

## ■ Dimensions and weights

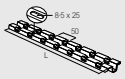
**UFC 30 → 105 mm 100 → 600 mm**




| Cat. No. | Weight (kg) GS |
|---|---|
| UFC | 0·24 |

**Please use Cat. No. when placing your order, see p. 29**
All weights are given in Kilograms (kg)

**RCSN 30 → 105 mm 100 → 600 mm**






| Cat. No. | L mm | Weight (kg) GS | GC | 304L | 316L |
|---|---|---|---|---|---|
| RCSN150 | 150 | 0·16 | 0·17 | – | 0·16 |
| RCSN200 | 200 | 0·23 | 0·23 | – | 0·22 |
| RCSN300 | 300 | 0·33 | 0·36 | – | 0·33 |
| RCSN400 | 400 | 0·38 | 0·49 | – | 0·45 |
| RCSN500 | 500 | 0·54 | 0·61 | – | 0·59 |
| RCSN550 | 550 | 0·63 | 0·65 | – | – |
| RCSN600 | 600 | 0·67 | 0·70 | – | 0·69 |
| RCSN1000 | 1 000 | 1·18 | 1·23 | – | 1·21 |
| RCSN2000 | 2 000 | 2·20 | 2·42 | 2·30 | 2·30 |
| RCSN3000 | 3 000 | 3·54 | 3·78 | 3·65 | 3·65 |

**Please use Cat. No. when placing your order, see p. 28**
All weights are given in Kilograms (kg)

**Key :**
GS Pre-galvanised
GC Hot dip galvanised after manufacture
304L Stainless steel 304L
316L Stainless steel 316L
For detailed information related to finishes, refer to **p. 116-117**

All dimensions (mm) are nominal

# beam mounting
**CLMFAS – RCSN**

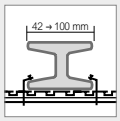
## ■ CLMFAS – beam clamps / RCSN – fast fix support rails

**CLMFAS - beam clamps**
Use as a clamp to attach RCSN mounting rail to beams
Supplied singly without fasteners

**RCSN - fast fix support rails**
Use to support 50 mm to 600 mm wide steel wire cable tray in 30 mm to 105 mm depths in a beam mounting situation. Can also be wall mounted (see p. 65), floor mounted (see p. 82) or used to form a trapeze hanger using threaded rod (see p. 74)
Incorporate slot and tab design for easy fixing. Supplied singly without fasteners

## ■ Installation


CLMFAS with RCSN




CLMFAS is secured to beams at either side with fasteners (not supplied). RCSN fast fit support rails simply pass through the opening in the CLMFAS clamp and sit on the underside of the beam 42 mm to 100 mm wide beams can be accommodated

## ■ Assembly

**Securing CLMFAS to beams and to RCSN**




CLMFAS is secured to beams at either side with 1 X M8 x 20 fastener per clamp (not supplied).
RCSN fast fit support rails simply pass through the opening in the CLMFAS clamp and sit on the underside of the beam

**Securing RCSN to steel wire cable tray**





Patented | Fast assembling | Fixing without nuts and bolts

Slot base wires of the tray into RCSN and bend tabs with screwdriver to secure, as shown in the FAS diagram above

→ For wall mounting : see p. 65
→ For ceiling mounting : see p. 74
→ For floor mounting : see p. 82

## ■ Dimensions and weights

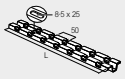
**CLMFAS 30 → 105 mm 50 → 600 mm**




| Cat. Nos. | daN.m | Weight (kg) GS | Z+ | 316L |
|---|---|---|---|---|
| **CLMFAS** | 18 | 0·20 | 0·20 | 0·20 |

**Please use Cat. No. when placing your order, see p. 29**
All weights are given in Kilograms (kg)

**RCSN 30 → 105 mm 100 → 600 mm**




NOTE :
When used with CLMFAS 50 mm wide tray can be supported either side of a beam

| Cat. No. | L mm | Weight (kg) GS | GC | 304L | 316L |
|---|---|---|---|---|---|
| **RCSN150** | 150 | 0·16 | 0·17 | – | 0·16 |
| **RCSN200** | 200 | 0·23 | 0·23 | – | 0·22 |
| **RCSN300** | 300 | 0·33 | 0·36 | – | 0·33 |
| **RCSN400** | 400 | 0·38 | 0·49 | – | 0·45 |
| **RCSN500** | 500 | 0·54 | 0·61 | – | 0·59 |
| **RCSN550** | 550 | 0·63 | 0·65 | – | – |
| **RCSN600** | 600 | 0·67 | 0·70 | – | 0·69 |
| **RCSN1000** | 1 000 | 1·18 | 1·23 | – | 1·21 |
| **RCSN2000** | 2 000 | 2·20 | 2·42 | 2·30 | 2·30 |
| **RCSN3000** | 3 000 | 3·54 | 3·78 | 3·65 | 3·65 |

**Please use Cat. No. when placing your order, see p. 28**
All weights are given in Kilograms (kg)

**Key :**
- GS Pre-galvanised
- GC Hot dip galvanised after manufacture
- Z+ Continuous galvanisation before manufacture
- 304L Stainless steel 304L
- 316L Stainless steel 316L

For detailed information related to finishes, refer to **p. 116-117**

All dimensions (mm) are nominal

# beam mounting
**CLMU - EDF**

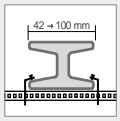
## ■ CLMU – beam clamps / EDF – pendants / mounting rails

**CLMU - beam clamps**
Use as a clamp to attach EDF mounting rail to beams
Supplied singly without fasteners

**EDF - pendants / mounting rails**
Use to support 50 mm to 600 mm wide steel wire cable tray in 30 mm to 105 mm depths in a beam mounting situation. Can also be wall mounted (see p. 58-61), or trapeze and pendant mounted from the ceiling (see p. 75-76)
Supplied singly without fasteners

## ■ Installation


CLMU with EDF




CLMU is secured to beams at either side with fasteners (not supplied). EDF mounting rails pass through the opening in the CLMU clamp and sit on the underside of the beam. 42 mm to 100 mm wide beams can be accommodated

## ■ Assembly

**Securing CLMU to beams and to EDF**




CLMU is secured to beams at either side with 1 X M8 x 20 fastener per clamp (not supplied)
EDF mounting rails pass through the opening in the CLMFAS clamp, sit on the underside of the beam and are secured with the fastener

**Securing EDF mounting rail to steel wire cable tray**



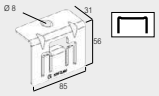

Use 1 x BTRCC 6 x 20 and 1 x CE25 to secure 50 mm to 200 mm tray EDF
For 300 mm to 600 mm tray use 2 x BTRCC 6 x 20 and 2 x CE25

For wall mounting : see p. 58-61

For ceiling (pendant / trapeze) mounting : see p. 75-76

## ■ Dimensions and weights

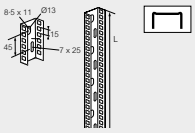
**CLMU 30 → 105 mm 50 → 600 mm**




| Cat. Nos. | daN.m | Weight (kg) GS | Zn |
|---|---|---|---|
| CLMU | 15 | 0·20 | 0·20 |

**Please use Cat. No. when placing your order, see p. 29**
All weights are given in Kilograms (kg)

**EDF 30 → 105 mm 100 → 600 mm**




| Cat. No. | L mm | F daN | Weight (kg) GS | GC | 304L | 316L |
|---|---|---|---|---|---|---|
| EDF600 | 600 | 50 | 0·77 | 0·83 | – | – |
| EDF1000 | 1 000 | 65 | 1·19 | 1·24 | – | – |
| EDF2000 | 2 000 | 70 | 2·40 | 2·56 | 2·48 | 2·48 |
| EDF3000 | 3 000 | 100 | 3·66 | 3·89 | – | – |

**Please use Cat. No. when placing your order, see p. 24**
All weights are given in Kilograms (kg)

**Key :**
- GS Pre-galvanised
- GC Hot dip galvanised after manufacture
- Zn Continuous galvanisation before manufacture
- 304L Stainless steel 304L
- 316L Stainless steel 316L

For detailed information related to finishes, refer to **p. 116-117**

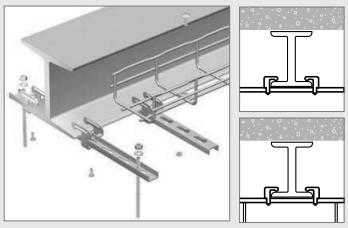
All dimensions (mm) are nominal

# beam mounting
**EF**

## ■ EF – adjustable beam clamps

EF adjustable beam clamps can be used to support 100 mm to 300 mm wide steel wire cable tray in 30 mm to 54 mm depths along the length of a beam. Can also be used to trapeze mount cable tray using threaded rod. Supplied singly without fasteners

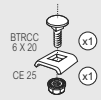
## ■ Installation



EF is secured to beams at either side with fasteners (not supplied)
Steel wire cable tray can be mounted directly to the channel piece, or suspended below using threaded rod

## ■ Assembly

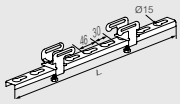
**Securing EF adjustable beam clamp to steel wire cable tray**




Use 1 x BTRCC 6 x 20 and 1 x CE25 to secure EF to tray

## ■ Dimensions and weights

**30 → 54 mm 100 → 300 mm**







H denotes the adjustable height range (see table below)

| Cat. Nos. | L mm | H mm | daN.m | Weight (kg) EZ |
|---|---|---|---|---|
| **EF11/400** | 400 | 1→11 | 3·5 | 0·22 |
| **EF15/600** | 600 | 1→15 | 5·5 | 0·22 |

**Please use Cat. No. when placing your order, see p. 29**

All weights are given in Kilograms (kg)

**Key :** EZ Electrogalvanising after manufacture

For detailed information related to finishes, refer to **p. 116-117**

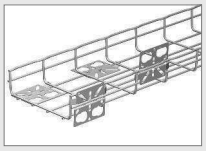
All dimensions (mm) are nominal

# other mounting – take-off plates
**SBDN – SBD – EXSBD**

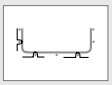
## ■ SBDN – universal conduit take-off plates

Mount to the base or side of steel wire cable tray to accept 20 mm or 25 mm diameter conduits. Use with 50 mm to 600 mm wide steel wire cable tray in 30 mm to 150 mm depths
Supplied singly without fasteners

### ■ Installation and assembly



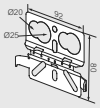
Fixing without nuts and bolts



Position SBDN using the groove and bend tabs to secure

### ■ Dimensions and weights

**30 → 150 mm 50 → 600 mm**




| Cat. No. | Weight (kg) GS | Weight (kg) Z+ |
|---|---|---|
| SBDN | 0·2 | 0·2 |

**Please use Cat. No. when placing your order, see p. 30**
All weights are given in Kilograms (kg)

Key : GS Pre-galvanised
Z+ Continuous galvanisation before manufacture

For detailed information related to finishes, refer to **p. 116-117**

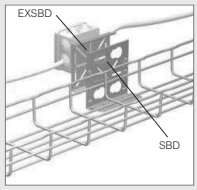
All dimensions (mm) are nominal

## ■ SBD – conduit take-off plates
## EXSBD – switch box take-off plate

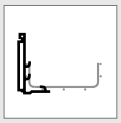
**SBD**
Mount to the side of steel wire cable tray to accept 20 mm or 25 mm diameter conduits. Use with 50 mm to 600 mm wide steel wire cable tray in 30 mm to 150 mm depths. SBD can also accept EXSBD switch box plate (below). Incorporate slot and tab design for easy fixing
Supplied singly. No fasteners required

**EXSBD**
Clip to SBD conduit take-off plates to enable mounting of switch boxes or junction boxes
Supplied singly. No fasteners required

### ■ Installation and assembly




Fixing without nuts and bolts

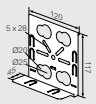


Fold tabs to secure SBD. EXSBD clips onto SBD using the slot position provided

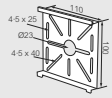
### ■ Dimensions and weights

**30 → 150 mm 50 → 600 mm**

SBD




EXSBD




| Cat. No. | Weight (kg) GS | Weight (kg) 316L |
|---|---|---|
| SBD | 0·1 | 0·1 |

| Cat. No. | Weight (kg) GS |
|---|---|
| EXSBD | 0·07 |

**Please use Cat. No. when placing your order, see p. 30**
All weights are given in Kilograms (kg)

Key : GS Pre-galvanised
316L Stainless steel 316L

For detailed information related to finishes, refer to **p. 116-117**

All dimensions (mm) are nominal

# other mounting – universal mounting plates
**CM50 – CM50XL – CAT40**

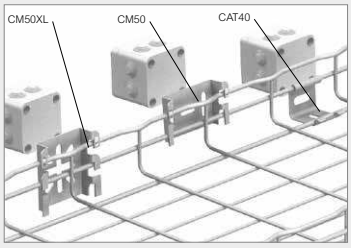
## ■ CM50 – universal mounting plates (small) / CM50XL – universal mounting plates (large) / CAT40 – channel fixing plates

**CM50 - universal mounting plates (small)**
Mount to the side of steel wire cable tray as an ancillary mounting plate. Use with 50 mm to 600 mm wide steel wire cable tray in 30 mm, 54 mm and 105 mm depths. CM50 can also be used to mount cable tray to the wall (see p 55)
Incorporate slot and tab design for easy fixing
Supplied singly. No fasteners required

**CM50XL - universal fixing plates (large)**
Mount to the side of steel wire cable tray as an ancillary mounting plate. Use with 50 mm to 600 mm wide steel wire cable tray in 30 mm, 54 mm and 105 mm depths. CM50XL can also be used to mount cable tray to the wall (see p 55), floor (see p. 78) or ceiling (see p. 69)
Incorporate slot and tab design for easy fixing
Supplied singly. No fasteners required

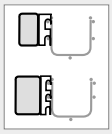
**CAT40 - channel fixing plates**
Mount to the side of steel wire cable tray as an ancillary mounting plate. Use with 50 mm to 600 mm wide steel wire cable tray in 30 mm, 54 mm and 105 mm depths. CAT40 can also be used to mount cable tray to the wall (see p 54)
Supplied singly. No fasteners required

## ■ Installation and assembly




CM50, CM50XL and CAT 40 plates are clipped onto the side rail of the tray to accommodate ancillary items. No fasteners are required to attach plates onto tray

Fixing without nuts and bolts

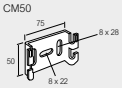


CM50 and CM50XL in side profile with ancillary items mounted to the flat side

## ■ Dimensions and weights

**30 / 54 / 105 mm 50 → 600 mm**

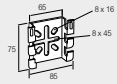
CM50




| Cat. Nos. | Weight (kg) GS | GC | 304L | 316L |
|---|---|---|---|---|
| **CM50** | 0·08 | 0·08 | 0·07 | 0·07 |

**Please use Cat. No. when placing your order, see p. 31**
All weights are given in Kilograms (kg)

CM50XL




| Cat. Nos. | Weight (kg) GS | GC | 304L | 316L |
|---|---|---|---|---|
| **CM50XL** | 0·10 | 0·11 | 0·08 | 0·08 |

**Please use Cat. No. when placing your order, see p. 31**
All weights are given in Kilograms (kg)

CAT40




| Cat. Nos. | Weight (kg) GS | DC | 316L |
|---|---|---|---|
| **CAT40** | 0·04 | 0·04 | 0·04 |

**Please use Cat. No. when placing your order, see p. 31**
All weights are given in Kilograms (kg)

For wall mounting : see p. 54-55
For ceiling mounting : see p. 69
For floor mounting : see p. 78

**Key :**
GS Pre-galvanised
GC Hot dip galvanised after manufacture
DC Geomet
304L Stainless steel 304L
316L Stainless steel 316L

For detailed information related to finishes, refer to **p. 116-117**

All dimensions (mm) are nominal

# other mounting – universal mounting plates

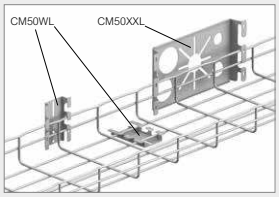
**CM50XXL – CM50WL**

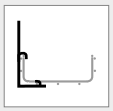
## ■ CM50XXL – universal mounting plates (extra large) / CM50WL – universal Wieland mounting plates

**CM50XXL - universal mounting plates (extra large)**
Mount to the side of steel wire cable tray to accept conduit or switch / junction boxes. Use with 50 mm to 600 mm wide steel wire cable tray in 30 mm to 105 mm depths. Incorporate slot and tab design for easy fixing
Supplied singly. No fasteners required

**CM50WL**
Mount to the side or base of steel wire cable tray as a Wieland ancillary mounting plate. Use with 50 mm to 600 mm wide steel wire cable tray in 30 mm to 105 mm depths. Incorporate slot and tab design for easy fixing
Supplied singly. No fasteners required

## ■ Installation and assembly



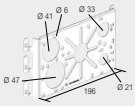
CM50WL and CM50XXL are clipped onto the side rail of the tray to accommodate ancillary items. No fasteners are required to attach plates onto tray

Fixing without nuts and bolts

## ■ Dimensions and weights

**30 → 105 mm 50 → 600 mm**

**CM50XXL**




| Cat. No. | Weight (kg) GS | DC |
|---|---|---|
| CM50XXL | 0·24 | 0·24 |

**Please use Cat. No. when placing your order, see p. 31**
All weights are given in Kilograms (kg)

**CM50WL**




| Cat. No. | Weight (kg) GS | Zn |
|---|---|---|
| CM50WL | 0·05 | 0·05 |

**Please use Cat. No. when placing your order, see p. 31**
All weights are given in Kilograms (kg)

**Key :** GS Pre-galvanised
DC Geomet
Zn Continuous galvanisation before manufacture

For detailed information related to finishes, refer to **p. 116-117**

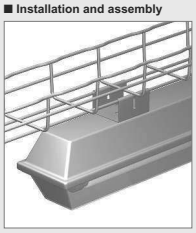
All dimensions (mm) are nominal

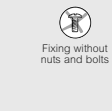
# other mounting – luminaire supports
**SL50 – SL100 – MFM – MFPOLYA**

## ■ SL50 / SL100 – luminaire supports

Mount to the base of steel wire cable tray to suspend luminaires from the base of the tray run. SL50 can also be used to mount 50 mm wide cable tray to the ceiling, (see p. 66)
Supplied singly without fasteners

### ■ Installation and assembly





Fixing without nuts and bolts

SL50 / SL100 luminaire supports clip onto the base wires of the tray
No fasteners required to secure bracket to tray

### ■ Dimensions and weights

**SL 50**

**30 → 54 mm** **50 mm**




| Cat. Nos. | H mm | F daN | Weight (kg) GS |
|---|---|---|---|
| SL50 | 56 | 150 | 0·19 |

**Please use Cat. No. when placing your order, see p. 32**
All weights are given in Kilograms (kg)

**SL 100**

**30 → 105 mm** **100 → 600 mm**




| Cat. Nos. | H mm | F daN | Weight (kg) GS |
|---|---|---|---|
| SL100 | 43 | 150 | 0·14 |

**Please use Cat. No. when placing your order, see p. 32**
All weights are given in Kilograms (kg)

**Key :** GS Pre-galvanised

For detailed information related to finishes, refer to **p. 116-117**

All dimensions (mm) are nominal

## ■ MFM – MFPOLYA – multifix base plates

Mount inside the tray bed to allow for additional base mounting options for extra services
Supplied singly without fasteners

### ■ Installation and assembly









MFM100 / MFM150 and MFPOLYA can all be used to suspend luminaires from the base of the tray run

Fixing without nuts and bolts

### ■ Dimensions and weights

**30 → 150 mm** **100 → 600 mm**

**MFM100** **MFM150** **MFPOLYA**




| Cat. No. | L mm | Weight (kg) GS | Z+ | 316L | POLYMIDE |
|---|---|---|---|---|---|
| MFM100 | 100 | 0·07 | 0·07 | 0·07 | – |
| MFM150 | 150 | 0·11 | 0·11 | – | – |
| MFPOLYA | 109 | – | – | – | 0·03 |

**Please use Cat. No. when placing your order, see p. 32**
All weights are given in Kilograms (kg)

**Key :** GS Pre-galvanised; Z+ Continuous galvanisation before manufacture; 316L Stainless steel 316L; POLYMIDE Polyamide

For detailed information related to finishes, refer to **p. 116-117**

All dimensions (mm) are nominal

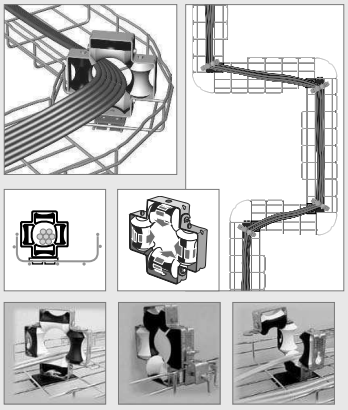
→ For ceiling mounting : see p. 66

# cabling accessories
**FAS ROLLER - DEV100**

## ■ FAS ROLLER – cabling roller

Enables the easy installation of cables into a steel wire cable tray run using the cable roller tools, mounting plates and clamps
Supplied with roller, mounting plate and clamp

### ■ Installation and assembly



FASROLLER is fitted to the base of the tray at every corner

### ■ Dimensions and weights

**30 → 150 mm 50 → 600 mm**



| Cat. No. | Weight (kg) GS |
|---|---|
| FAS ROLLER | 5·01 |

**Please use Cat. No. when placing your order, see p. 33**
All weights are given in Kilograms (kg)

**Key :** GS Pre-galvanised

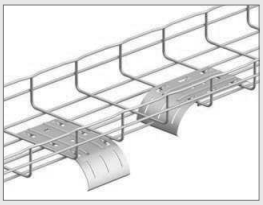
For detailed information related to finishes, refer to **p. 116-117**

All dimensions (mm) are nominal

## ■ DEV100 – cable dropout plates

Base mounted cable drop out plate to aid cable egress
Incorporates slot and tab design for easy fixing. Supplied singly

### ■ Installation and assembly



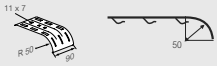


Fixing without nuts and bolts

DEV100 dropout plates are fitted inside the tray bed by folding the tabs
Can be fitted along the length of the run or across the width to enable cable egress

### ■ Dimensions and weights

**30 → 150 mm 100 → 600 mm**




| Cat. Nos. | Weight (kg) GS | Z+ | 316L |
|---|---|---|---|
| DEV100 | 0·17 | 0·14 | 0·13 |

**Please use Cat. No. when placing your order, see p. 33**
All weights are given in Kilograms (kg)

**Key :** GS Pre-galvanised; Z+ Continuous galvanisation before manufacture; 316L Stainless steel 316L

For detailed information related to finishes, refer to **p. 116-117**

All dimensions (mm) are nominal

# cabling accessories
**CABLOGRIP - CLIP**

## ■ CABLOGRIP – cable grip

Banding strip used to form and secure a cable bundle within a steel wire cable tray run
Supplied singly

### ■ Installation and assembly





CABLOGRIP forms an organised bundle of cables which can then be secured

### ■ Dimensions and weights

**30 → 150 mm 100 → 600 mm**



| Cat. No. | L mm | Weight (kg) OTHER |
|---|---|---|
| **CABLOGRIP** | 5 000 | 0·93 |

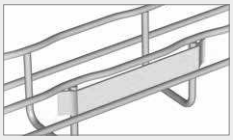
**Please use Cat. No. when placing your order, see p. 33**

All weights are given in Kilograms (kg)

## ■ CLIP - identification tags

Coloured identification tag attaches to the side of steel wire cable tray
Supplied in packs of 50

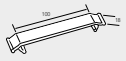
### ■ Installation and assembly



CLIP identification clips attach to the side rail of the tray run
No fasteners required

### ■ Dimensions and weights

**30 → 150 mm 50 → 600 mm**



| Cat. No. | Weight (kg) PLAST |
|---|---|
| **CLIPJ** | 0·01 |
| **CLIPV** | 0·01 |
| **CLIPB** | 0·01 |
| **CLIPO** | 0·01 |
| **CLIPG** | 0·01 |
| **CLIPP** | 0·01 |
| **CLIPR** | 0·01 |
| **CLIPW** | 0·01 |
| **CLIPN** | 0·01 |

**Please use Cat. No. when placing your order, see p. 33**

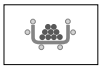
All weights are given in Kilograms (kg)

**Key :** PLAST Plastic

For detailed information related to finishes, refer to **p. 116-117**

All dimensions (mm) are nominal

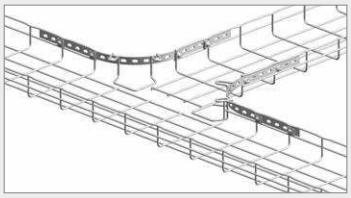
## cabling accessories
**PA**



### ■ PA - radius support

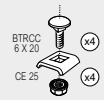
Used as a corner assembly in conjunction with site fabricated fittings
Supplied singly without fasteners

### ■ Installation



PA fitted to form a radius support for site fabricated bends to ensure a smooth bending. Fasteners required (not supplied)

### ■ Assembly




Use 4 x BTRCC 6 x 20 and 1 x CE25 to secure PA to tray

### ■ Dimensions and weights

**CF30 / CF54 / CF105 mm 50 → 600 mm**



| Cat. Nos. | H mm | Weight (kg) EZ | Weight (kg) GC |
|---|---|---|---|
| **PA1** | 30 | 0·25 | 0·29 |
| **PA2** | 54 | 0·27 | 0·31 |
| **PA4** | 105 | 0·29 | 0·33 |

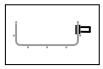
**Please use Cat. No. when placing your order, see p. 33**
All weights are given in Kilograms (kg)

**Key :** EZ Electrogalvanising after manufacture
GC Hot dip galvanised after manufacture

For detailed information related to finishes, refer to **p. 116-117**

All dimensions (mm) are nominal

## earthing
**BLF**

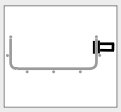


### ■ BLF – earth conductor clamps (copper)

Side mounted earth conductor clamp fits directly to side wires of steel wire cable tray. Use for protective conductors with a cross section of 16, 35 and 50 mm². Supplied singly

### ■ Installation





BLF attaches to side rail of tray

### ■ Assembly



Clamp in place with the earthing point outside of the tray

### ■ Dimensions and weights

**30 → 150 mm 50 → 600 mm**




| Cat. Nos. | L mm | Ø mm² | Weight (kg) CU |
|---|---|---|---|
| **BLF8/16** | 22 | 16 | 0·05 |
| **BLF8/35** | 24 | 35 | 0·06 |
| **BLF8/50** | 26 | 50 | 0·07 |

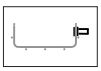
**Please use Cat. No. when placing your order, see p. 34**
All weights are given in Kilograms (kg)

**Key :** CU Copper

For detailed information related to finishes, refer to **p. 116-117**

All dimensions (mm) are nominal

# earthing
**GRIFEQUIP - GRIFEQUIP 2**

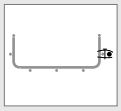


## ■ GRIFEQUIP – earth conductor clamp (aluminium)
## GRIFEQUIP 2 – vertical earth clamp (aluminium)

Side mounted earth conductor clamp fits directly to steel wire cable tray. Use for protective conductors with a cross section of between 6 and 35 mm²
Supplied singly

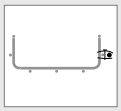
## ■ Installation



GRIFEQUIP clamps to the side rail of tray



GRIFEQUIP2 clamps to the side rail of tray

## ■ Dimensions and weights

**CF30 / CF54 / CF105 mm 50 → 600 mm**

**GRIFEQUIP**



Ø – 6 X 35 mm²

**GRIFEQUIP 2**



Ø – 6 X 35 mm²

| Cat. Nos. | Weight (kg) AL |
|---|---|
| GRIFEQUIP | 0·02 |
| GRIFEQUIP2 | 0·04 |

**Please use Cat. No. when placing your order, see p. 34**
All weights are given in Kilograms (kg)

**Key :** AL Aluminium

For detailed information related to finishes, refer to **p. 116-117**

All dimensions (mm) are nominal

# installation guide





# INSTALLATION GUIDE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Using manual croppers or electric cutting tool 96
Installing FASLOCK AUTO and fixing kits 97

CREATING RADIUS BENDS
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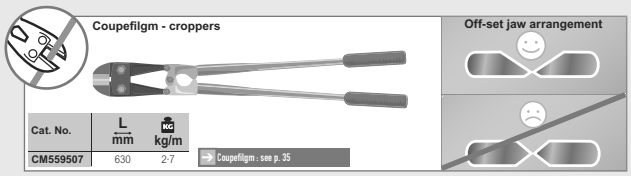
Large radius bengs using fixing kits 100 - 101
Small radius bends 102 - 103

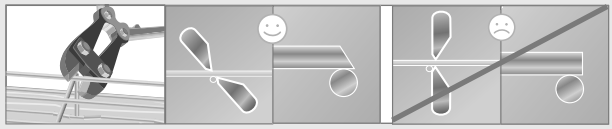
FABRICATING OTHER FITTINGS
Right angle bends 104 - 105
T-junction or crossover at right angles 106 - 107
T-junction or crossover with gusset 108 - 109
Reducers 110
Changing level 111

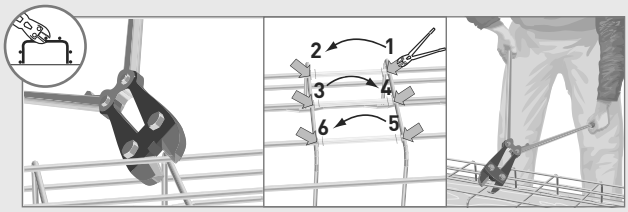
■ How to cut a cable tray

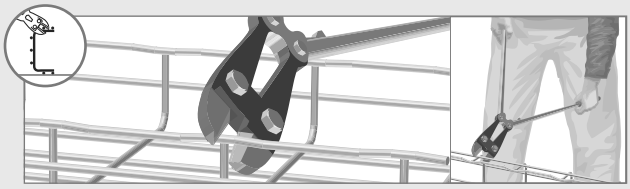


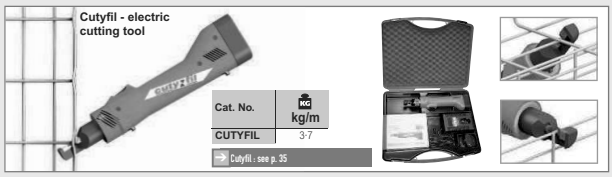

| Cat. No. | L mm | kg/m |
|---|---|---|
| CM559507 | 630 | 2·7 |

→ Coupefilgm : see p. 35





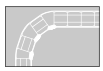






| Cat. No. | kg/m |
|---|---|
| CUTYFIL | 3·7 |

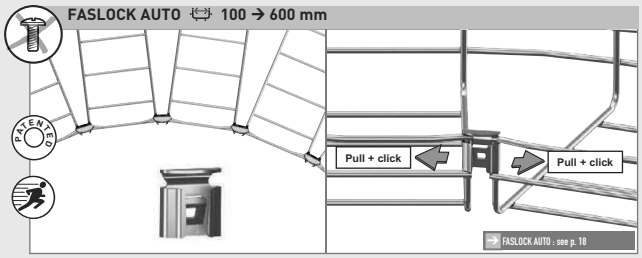
→ Cutyfil : see p. 35

All dimensions (mm) are nominal



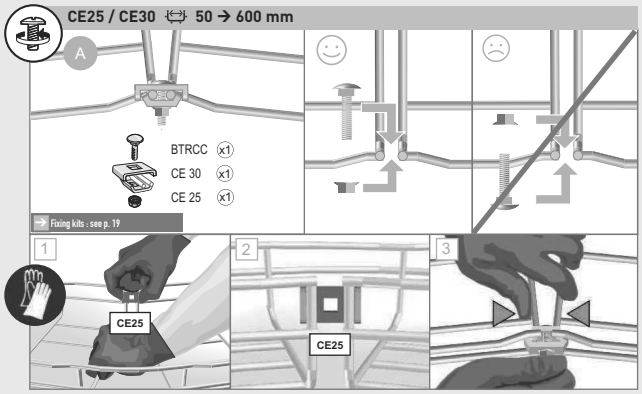
■ How to cut a cable tray (continued)

**FASLOCK AUTO** 100 → 600 mm

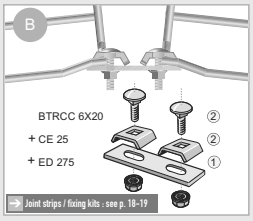



→ FASLOCK AUTO : see p. 18

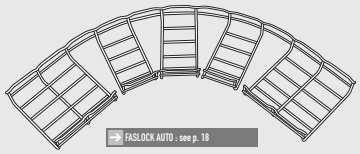
**CE25 / CE30** 50 → 600 mm




→ Fixing kits : see p. 19



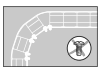

→ Joint strips / fixing kits : see p. 18–19



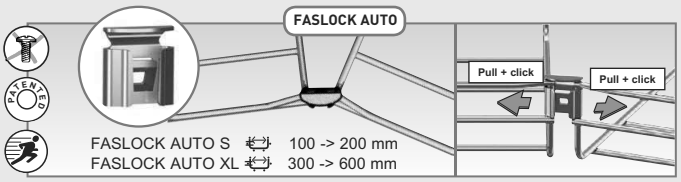
→ FASLOCK AUTO : see p. 18

All dimensions (mm) are nominal

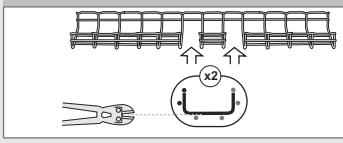
→ Fasteners : see p. 19, 35

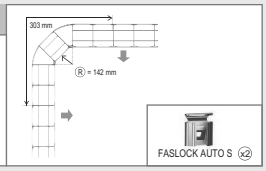


## ■ Large radius bends using FASLOCK AUTO

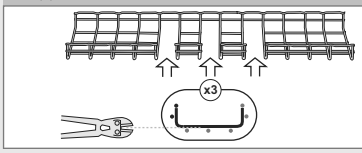


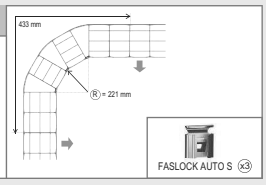

### 100 mm



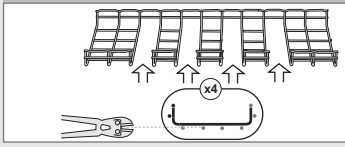



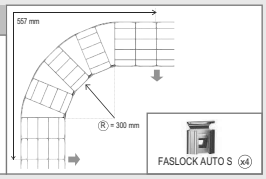

### 150 mm



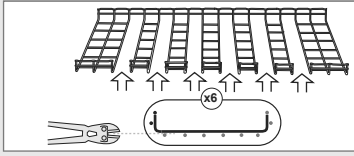



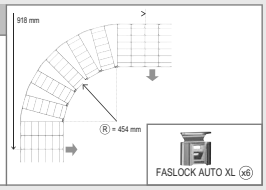

### 200 mm



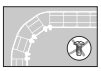

### 300 mm



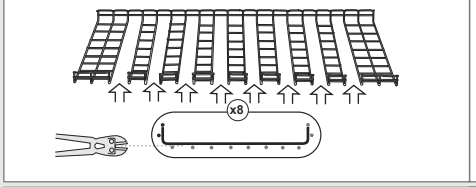

All dimensions (mm) are nominal

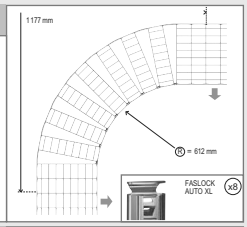
FASLOCK AUTO : see p. 18



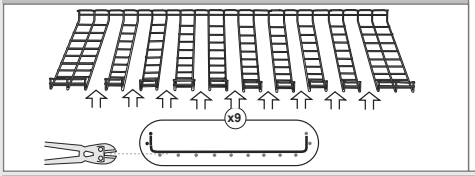
■ **Large radius bends using FASLOCK AUTO (continued)**

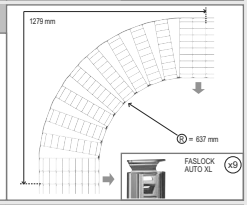
400 mm



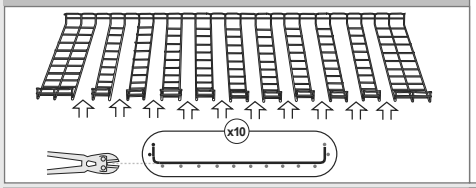



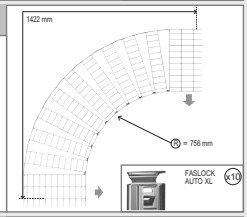

450 mm



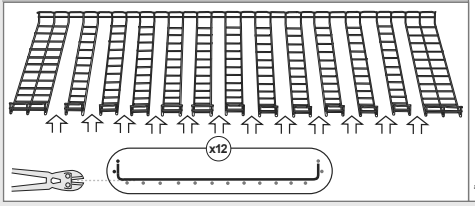



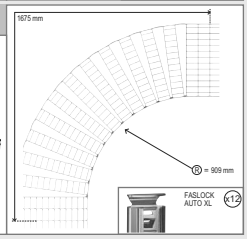

500 mm



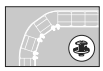

600 mm



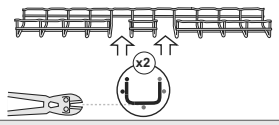

All dimensions (mm) are nominal

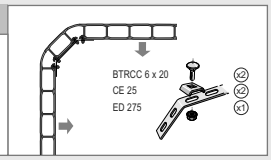
→ FASLOCK AUTO : see p. 18



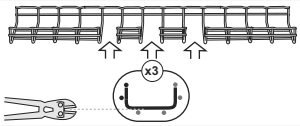
■ **Large radius bends using fixing kits**

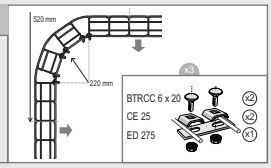
50 mm



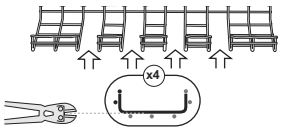



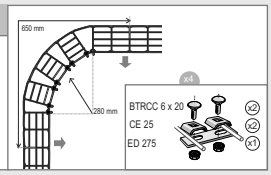

100 mm



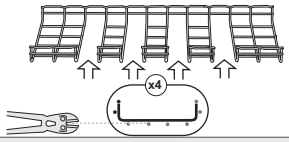



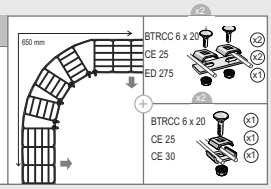

150 mm



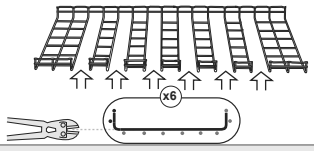



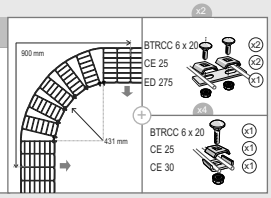

200 mm



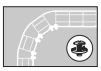

300 mm



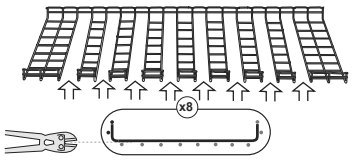

All dimensions (mm) are nominal

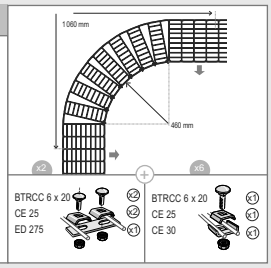
Joint strips / fixing kits : see p. 18-19



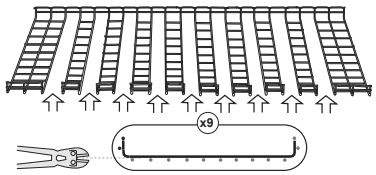
■ **Large radius bends using fixing kits** (continued)

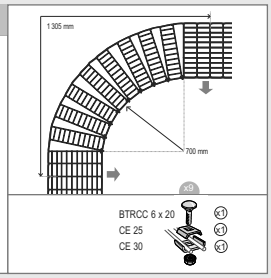
400 - 450 mm



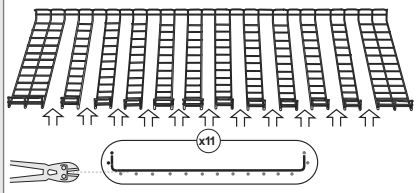



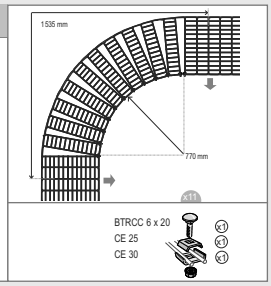

500 mm



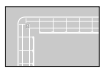

600 mm



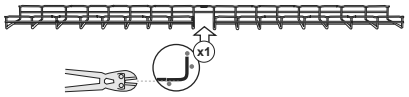

All dimensions (mm) are nominal

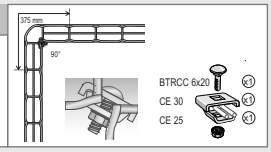
Joint strips / fixing kits : see p. 18-19



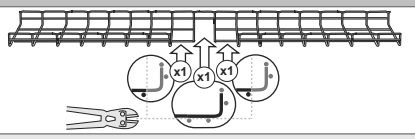
■ **Small radius bends**

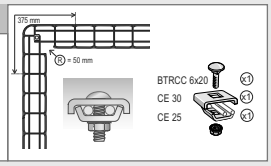
50 mm



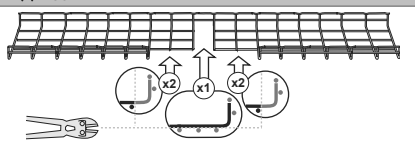



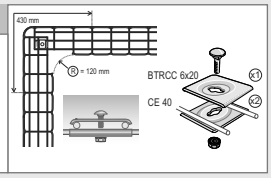

100 mm



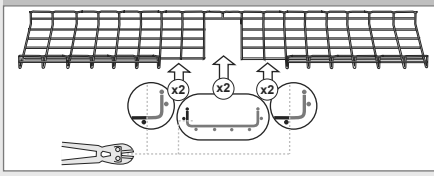



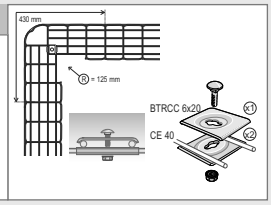

150 mm



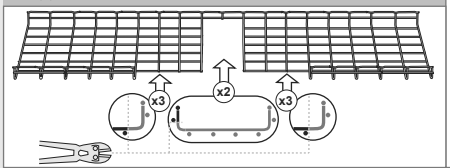



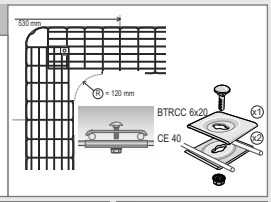

200 mm




300 mm



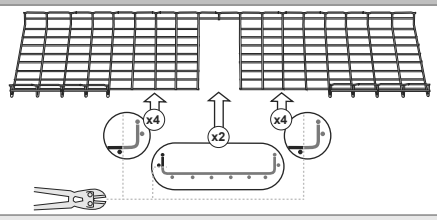



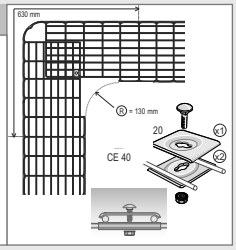

All dimensions (mm) are nominal

→ CE40 : see p. 25
→ Fixing kits : see p. 19

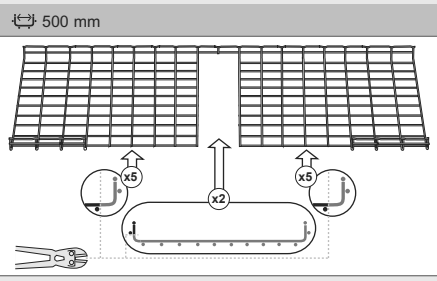
■ **Small radius bends (continued)**

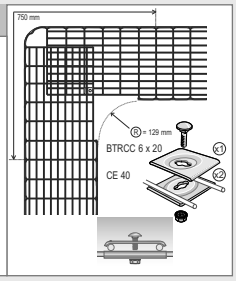
400 - 450 mm



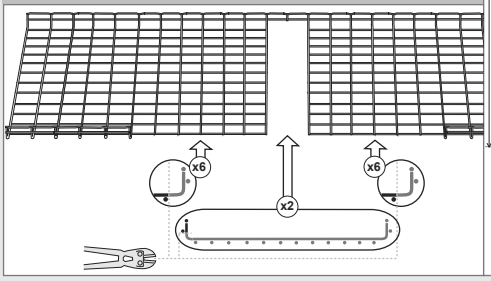



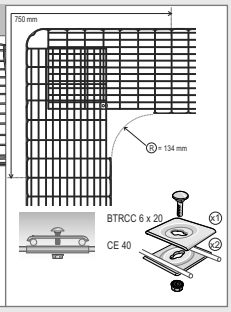

500 mm



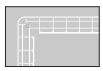

600 mm



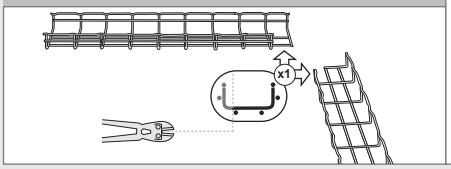

All dimensions (mm) are nominal

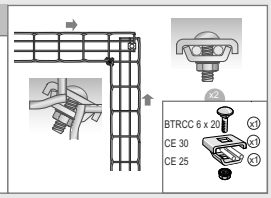
→ CE40 : see p. 25
→ Fixing kits : see p. 19



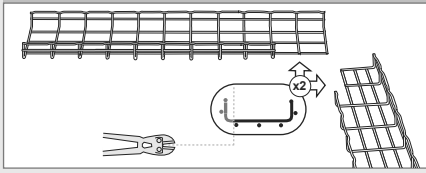
■ **Right angle bends**

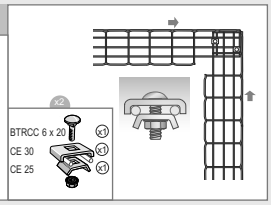
100 mm



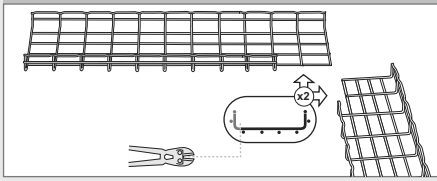



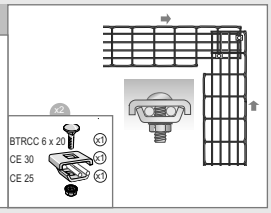

150 mm



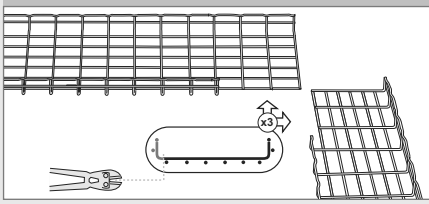



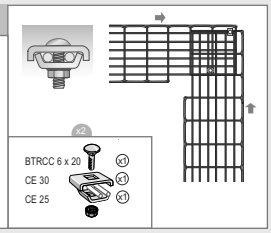

200 mm



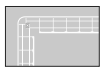

300 mm



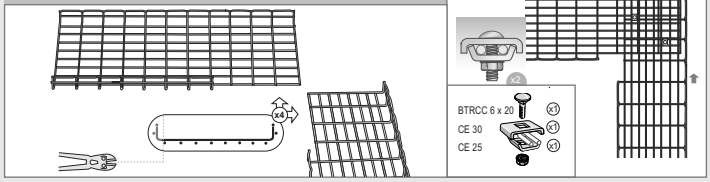

All dimensions (mm) are nominal

Fixing kits : see p. 19

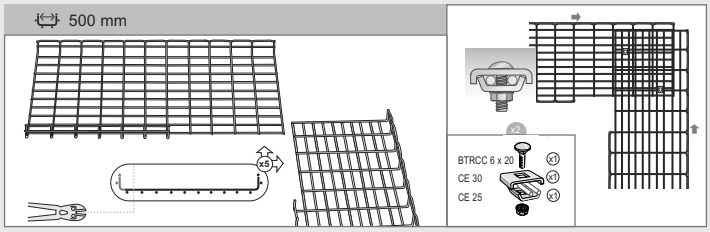


■ **Right angle bends (continued)**

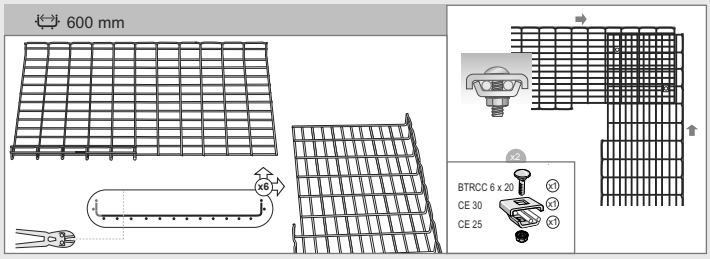
400 mm

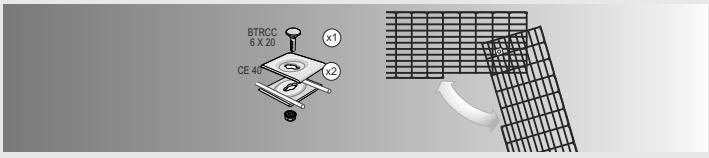



500 mm



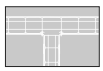

600 mm



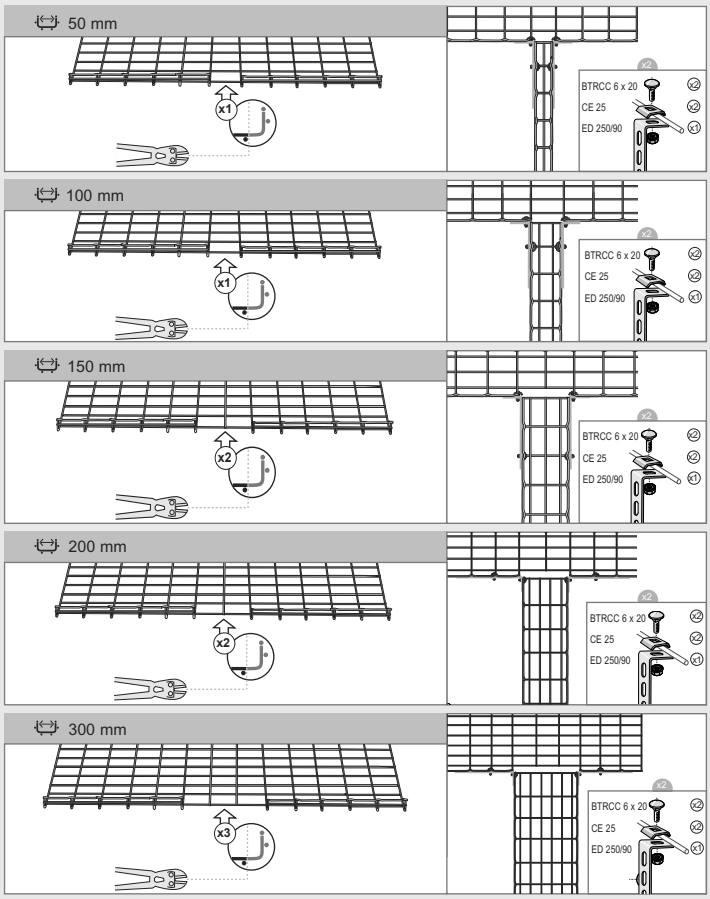




All dimensions (mm) are nominal

→ CE40 : see p. 25
→ Fixing kits : see p. 19



■ **T or cross at right angles**



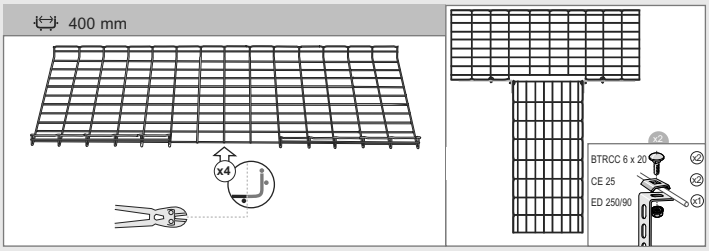

All dimensions (mm) are nominal

→ Fixing kits : see p. 19

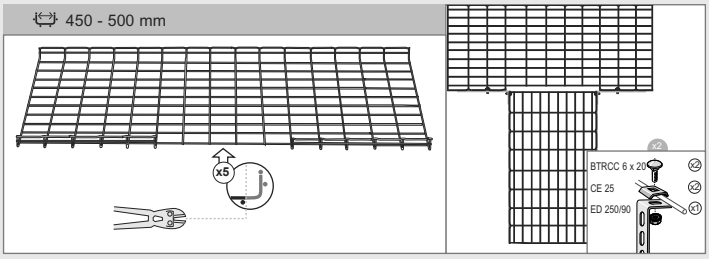
## cable tray installation
technical information

■ **T or cross at right angles** (continued)

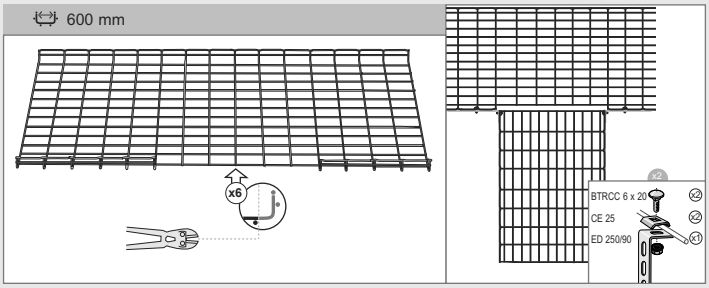
400 mm




450 - 500 mm

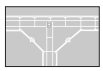



600 mm



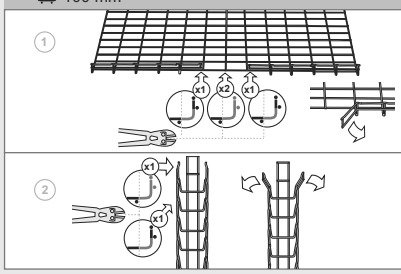

All dimensions (mm) are nominal

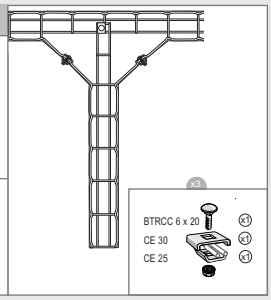
Fixing kits : see p. 19



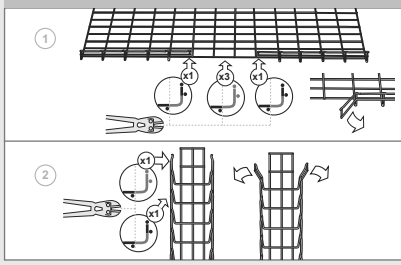
■ **T or cross with gusset**

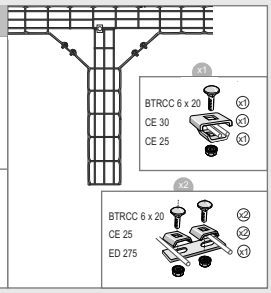
100 mm



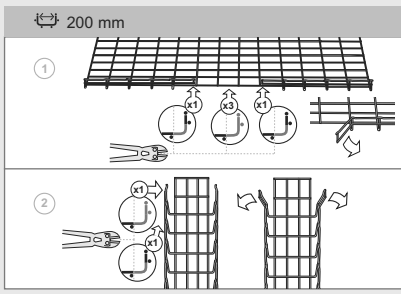



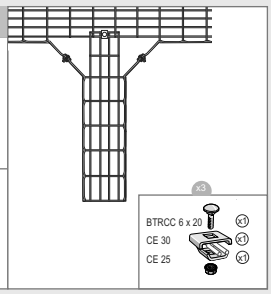

150 mm



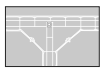

200 mm



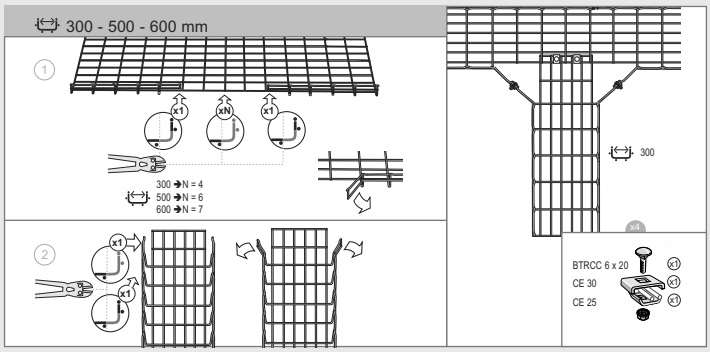



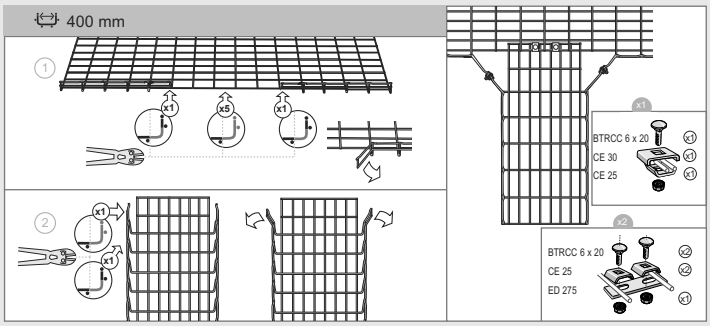

All dimensions (mm) are nominal

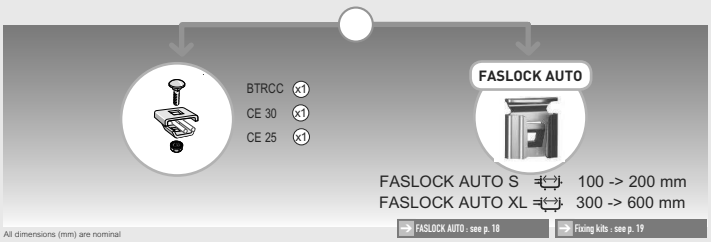
Fixing kits : see p. 19



■ **T or cross with gusset (continued)**

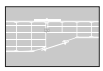



All dimensions (mm) are nominal

→ FASLOCK AUTO : see p. 18
→ Fixing kits : see p. 19



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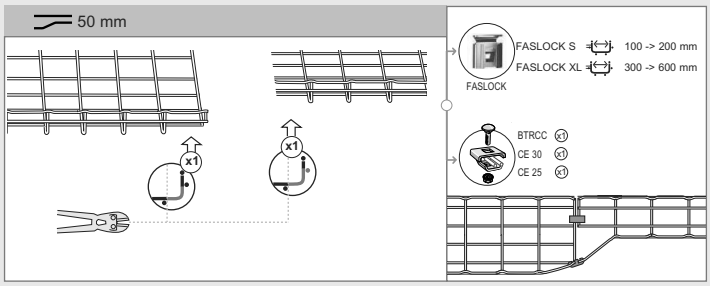
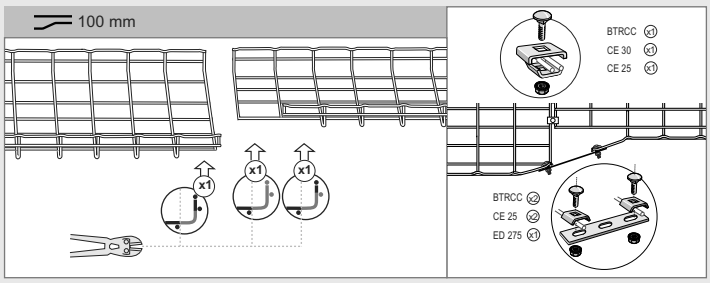
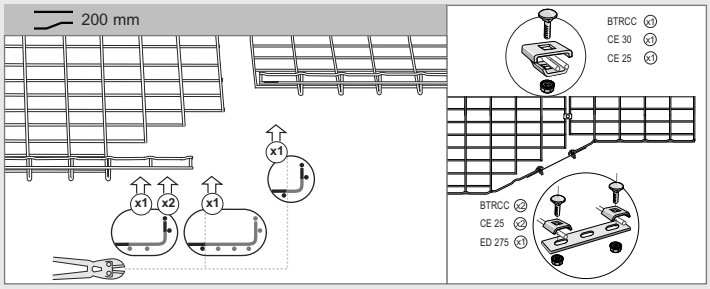
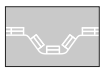


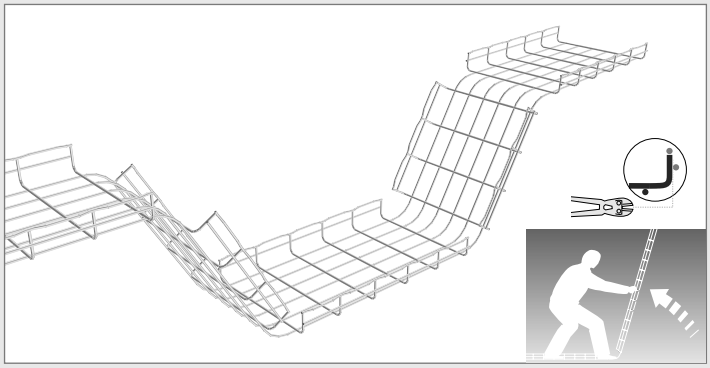



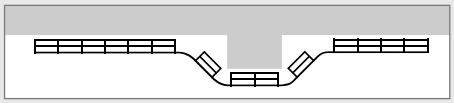

All dimensions (mm) are nominal

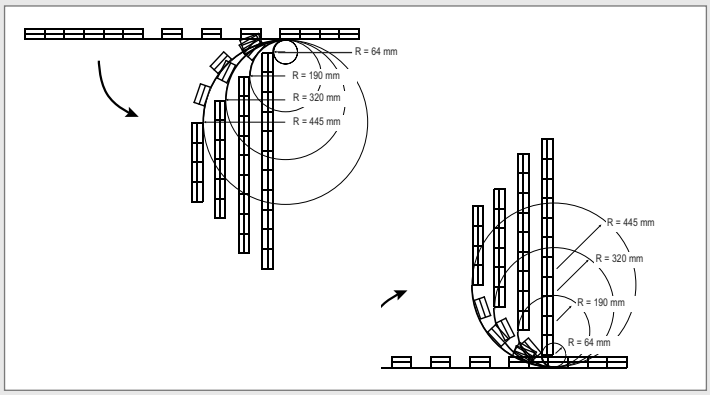
→ FASLOCK AUTO : see p. 18
→ Fixing kits : see p. 19



■ **Changing level**








All dimensions (mm) are nominal



# design
# not



# DESIGN NOTES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# Selecting the right finish

## IN THIS SECTION...


**Suitability of finishes**
1. Recommended finishes for different environments

**Preventing corrosion**
1. Chemical (atmospheric) corrosion
2. Electrochemical (galvanic) corrosion
3. The merits of Zinc
4. Common corrosion situations


## Suitability of finishes

### 1 Recommended finishes for different environments

| ❍ Recommended ◆ Possible | GS | EZ | EZ+ | GC | DC | 304L | 316L |
|---|---|---|---|---|---|---|---|
| Internal installation, normal environment | ❍ | ❍ | | | | | |
| External installation, urban environment | ◆ | ◆ | ◆ | ❍ | ❍ | | |
| Temporary external installation during construction phase | ◆ | ◆ | ❍ | | | | |
| Chemical industries, nitrate explosives, photography, decoration | | | | ◆ | ◆ | | ❍ |
| Marine, harsh, sulphurous (weak concentration) environments | | | | ◆ | ◆ | | ❍ |
| Acid or alkaline environments | | ◆ | | ◆ | ◆ | ❍ | ◆ |
| Food production environment | | | | | ❍ | ❍ | |
| Halogen environment | | | | | | ◆ | ❍ |

**Typical atmospheric environments in relation to suitability of finishes**

## Preventing corrosion

In planning any cabling or support installation the choice of an appropriate corrosion resistant finish is always a key issue at the specification stage. The correct choice of finish has long term implications and is crucial for ensuring the longevity (and aesthetics) of the complete installation in order to meet with the client's expectations.

It is vital that the finish specified for the equipment is capable of providing lifetime protection from corrosion within the intended environment - ideally with some margin of safety.

The following pages give information on how corrosion occurs. Contact our technical team on +44 (0) 845 605 5334 for further information.

Corrosion occurs on all metals to some extent. With some, such as stainless steel, its effects are usually only slight but even then the presence of certain chemicals or physical contact with other metals may cause rapid corrosion. It is therefore important to consider every aspect of the environment surrounding any intended installation in order to choose a material or finish which will minimise the risk of damage to the support system through the effects of corrosion.





### 1 Chemical (atmospheric) corrosion

Few metals will suffer corrosion damage in a dry, unpolluted atmosphere at a normal ambient temperature. Unfortunately atmospheric pollutants are likely to be present to some degree in most situations where support systems will be installed, thus mild chemical corrosion is normal in almost all situations.

Any support installation which will be situated in an area where higher concentrations of chemicals exist must receive more detailed consideration in order to select a finish which provides the best combination of initial cost and expected life. More detailed information is available upon request, please contact us on +44 (0) 845 605 5334.

### 2 Electrochemical (galvanic) corrosion

When two dissimilar metals are in contact and become damp it is possible for corrosion to be induced in one of the metals. Such corrosion may progress rapidly and cause considerable damage so it is important to consider and, if necessary, take steps to eliminate this process occurring.

Electrochemical corrosion takes place because the two different metals each behave as electrodes and the moisture as the electrolyte in a simple battery; as with any battery the resulting flow of current will cause corrosion of the anode.

The likely effects of this reaction can be predicted using the Galvanic Series.

| Partner metal → / Metal involved ↓ | Stainless steel | Nickel | Copper | Brass | Tin | Steel | Aluminium | Chromium | Zinc |
|---|---|---|---|---|---|---|---|---|---|
| Stainless steel | 0 | | | | | | | | |
| Nickel | 180 | | | | | | | | |
| Copper | 320 | 140 | 0 | | | | | | |
| Brass | 400 | 220 | 80 | 0 | | | | | |
| Tin | 550 | 370 | 230 | 150 | 0 | | | | |
| Steel | 750 | 570 | 430 | 350 | 200 | 0 | | | |
| Aluminium | 840 | 660 | 520 | 440 | 290 | 90 | 0 | | |
| Chromium | 950 | 770 | 630 | 550 | 400 | 200 | 110 | 0 | |
| Zinc | 1150 | 970 | 830 | 750 | 600 | 400 | 310 | 200 | 0 |

Differences in potential are expressed in millivolts.
Beneath the red line, the metal involved is attacked.

## 3 The merits of Zinc

The Galvanic Series does show why zinc is such a useful corrosion resistant coating for mild steel.

Firstly, it forms an impervious zinc barrier around the steel, coating it with a metal whose own rate of chemical corrosion is both low and predictable in most situations.

Secondly, if the coating is damaged at any point (e.g. at a cut edge) the zinc surrounding the damaged area becomes the anode of the electrolytic cell and is sacrificially corroded away very slowly in preference to the underlying steel. This ensures the strength of the steel structure remains unaffected.

Because zinc appears near the top of the Galvanic Series it will act as a sacrificial anode in relation to most other metals; thus its relatively low cost and the ease with which it can be applied as a galvanised coating on steel means that it continues to be the most commonly specified protective finish for support systems.

**Life expectancy of zinc coatings**

The resistance of galvanising to atmospheric corrosion depends on a protective film which forms on the surface of the zinc. When the steel is withdrawn from the galvanising bath the zinc has a clean, bright, shiny surface. Over time the appearance will change to a dull grey patina as the surface reacts with oxygen, water and carbon dioxide in the atmosphere. A complex but tough, stable and protective layer is formed which adheres to the zinc. Contaminants in the atmosphere affect the nature of this protective film.

The most significant contaminant which will accelerate the corrosion rate of zinc is sulphur dioxide (S02) and it is the presence of S02 which largely controls the atmospheric corrosion of zinc.

## The Zinc Millennium Map

The Galvanizers Association has undertaken significant research based upon the positioning of reference canisters placed throughout the UK and the Republic of Ireland to establish background corrosion rates for 10 km² grids which has resulted in the formation of The Zinc Millennium Map.

With the correct use of the map specific locations can be analysed for average zinc corrosion rates per year.

Further information is available at www.galvanizing.org.uk.

## 4 Common corrosion situations

The most common occurrences of contact between dissimilar metals within support systems are :

a. Where stainless steel components are being fixed to a carbon steel structure

b. Where galvanised or zinc plated components are being fixed onto a stainless steel support system

**Description of typical atmospheric enviroments related to the estimation of corrosivity categories**

| Corrosivity category C. Corrosion rate for zinc (based upon one year exposures), rcorr (µm.a-1) and corrosion level | Typical enviroments (examples) | |
|---|---|---|
| | **Indoor** | **Outdoor** |
| C1<br>rcorr ² 0.1<br>Very low | Heated spaces with low relative humidity and insignificant pollution, e.g. offices, schools, museums | Dry or cold zone, atmospheric environment with very low pollution and time of wetness, e.g. certain deserts, central Arctic / Antarctica |
| C2<br>0.1 ← rcorr ² 0.7<br>Low | Unheated spaces with varying temperature and relative humidity. Low frequency of condensation and low pollution, e.g. storage, sport halls | Temperate zone, atmospheric environment with low pollution (S02 ← 5 µg/m3), e.g.: rural areas, small towns. Dry or cold zone, atmospheric environment with short time of wetness, e.g. deserts, sub-arctic areas |
| C3<br>0.7 ← rcorr ² 2<br>Medium | Spaces with moderate frequency of condensation and moderate pollution from production process, e.g. foodprocessing plants, laundries, breweries, dairies | Temperate zone, atmospheric environment with medium pollution (S02: 5 µg/m3 to 30 µg/m3) or some effect of chlorides, e.g. urban areas, coastal areas with low deposition of chlorides, subtropical and tropical zones with atmosphere with low pollution |
| C4<br>2 ← rcorr ² 4<br>High | Spaces with high frequency of condensation and high pollution from production process, e.g. industrial processing plants, swimming pools | Temperate zone, atmospheric environment with high pollution (S02: 30 µg/m3 to 90 µg/m3) or substantial effect of chlorides, e.g. polluted urban areas, industrial areas, coastal areas without spray of salt water, exposure to strong effect of de-icing salts, subtropical and tropical zones with atmosphere with medium pollution |
| C5<br>4 ← rcorr ² 8<br>Very high | Spaces with very high frequency of condensation and/or with high pollution from production process, e.g. mines, caverns for industrial purposes, unventilated sheds in subtropical and tropical zones | Temperate and subtropical zones, atmospheric environment with very high pollution (S02: 90 µg/m3 to 250 µg/m3) and/or important effect of chlorides, e.g. industrial areas, coastal areas, sheltered positions on coastline |
| CX<br>8 ← rcorr ² 25<br>Extreme | Spaces with almost permanent condensation or extensive periods of exposure to extreme humidity effects and/or with high pollution from production process, e.g. unventilated sheds in humid tropical zones with penetration of outdoor pollution including airborne chlorides and corrosion-stimulating particulate matter | Subtropical and tropical zones (very high time of wetness), atmospheric environment with very high pollution (S02 higher than 250 µg/m3), including accompanying and production pollution and/or strong effect of chlorides, e.g. extreme industrial areas, coastal and offshore areas with occasional contact with salt spray |

# Finishes

IN THIS SECTION...

Coated and stainless steels
1. Coated steels
2. Stainless steels

## Coated and stainless steels

### 1 Coated steels

**GS Pre-galvanised**

EN 10346 (accessories only)

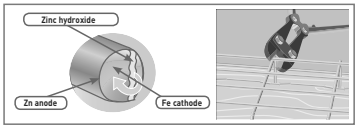
Before manufacture, a coating of zinc is deposited by continuous immersion on to the steel.

**EZ Electrogalvanising after manufacture**[1]

EN 12329 standard

This coating process is often referred to as bright zinc plating (BZP). Electroplating with zinc may be used when a smooth bright decorative finish is required. Parts can be coloured or colourless depending on the type of passivation process used. It is generally used for internal applications where a low degree of corrosion resistance is acceptable. Electroplating involves connecting the metal substrate to a negative terminal of a direct current source and another piece of metal to a positive pole, and immersing both metals in a solution containing ions of the metal to be deposited, in this case zinc.

**Ongoing protection**




When steel wire cable tray is cut, the level of protection is not affected. The jaws of the bolt cropper drag a layer of zinc across the cut end which forms a protective layer.

**GC Hot dip galvanised after manufacture**

BS EN ISO 1461 standard

Hot dip galvanising after manufacture is an excellent, economical protective finish used on support systems in many industrial and commercial applications.

**Background**

The galvanised coating is applied as a final manufacturing process by immersing a steel component (after various pre-treatments) in a large bath of molten zinc; the zinc forms an alloy with the steel substrate and protects the steel from corrosion in two ways.

Firstly, the zinc coating surrounds the base steel with a total, tough physical barrier preventing corrosion of the steel by the surrounding atmosphere. Secondly, if steel does become exposed, e.g. at a cut edge, the zinc coating acts as a sacrificial anode and will be gradually corroded in preference to the underlying steel. Corrosion products from the zinc will also be deposited onto the steel, effectively re-sealing the surface and maintaining the integrity of the barrier.

**NOTE** : Any white marks due to the formation of zinc hydroxycarbonate which might appear on the surface have no influence on the corrosion resistance. This is in fact the very principle on which galvanic protection is based.

**DC Geomet®**

Geomet is a treatment based on zinc and aluminium. As it does not contain any chromium VI (hexavalent), it complies with the RoHS Directive.

Offering protection equivalent to GC, it is used for small accessories and fixings which are difficult to hot dip galvanise.

**EZ+ EZ+**

EZ+ is an additional organic finish applied over standard electrozinc plated steel wire cable trays, offering a durable surface treatment for temporary external installations during the construction phase.

Cablofil EZ+ brings with it a Class 6 alternative to a hot dip galvanised finish (GC) according to IEC 61537. Salt spray tests carried out demonstrate that EZ+ exceeds the performance of a standard hot dip galvanised finish (no red rust after more than 550 hours exposure to salt spray test, according to ISO 61537). The same 'Class 6' classification is achieved after products are subjected to a simulated 2 year ageing process under UV conditions.

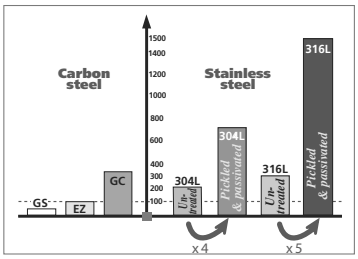
**Z+ Z+**

Alloy compound of 94% zinc, 3% aluminium and 3% magnesium, coated steel with high elastic yield. Compatible with hot dip galvanised products and has Class 8 properties according to IEC 61537. Products self-regenerate when cut. Z+ products are compatible with hot dip galvanised / EZ+.

**Powder coated**

Resin-based paint is applied to the steel wire cable tray using an electrostatic powder and then cured in an oven. The entire range of RAL colours can be obtained. Mainly used for aesthetic reasons and to help identify cable routes, it offers very good corrosion resistance.

1: BEAMA 'BEST PRACTICE GUIDE TO CABLE LADDER AND CABLE TRAY INSTALLATIONS'




Figures for salt spray tests, baseline 100 hours : EZ

## 2 Stainless steels

For all practical purposes most stainless steel services supports can be regarded as maintenance free and suffering no corrosion. Inevitably there is a relatively high price to pay for these attractive properties but, in aggressive environments or where the cost or inconvenience of gaining subsequent maintenance access is prohibitive, this initial cost premium may well be justified.

**Background**

Stainless steel contains a high proportion of chromium (usually at least 17%) and the steel's remarkable immunity to corrosive attack is conferred by the chromium-rich oxide film which occurs naturally on its surface. This invisible film is not only inert and tightly bonded to the surface, it also re-forms quickly if the surface is damaged in any way.

The fire resistance of stainless steel is particularly noteworthy; tests have demonstrated that stainless steel cable supports can be expected to maintain their integrity for considerable periods even when exposed to direct flame temperatures exceeding 1,000°C. This may be an important consideration where the electrical circuits being supported provide for emergency power or control systems.

Stainless steel is also used where hygiene is a major consideration. Its advantages in such applications are again its excellent resistance to the various chemicals and washes which are frequently used for cleaning purposes and the smoothness of surface (depending on the finish specified) which minimises the soiling or contamination that can take place.

**304L Stainless steel 304 L**

EN 10088-2 standard AISI 304L – X2CrNi18.09 – 1.4307

Offers good corrosion resistance against soft water, normal environments and food products (except mustard and white wine).

**316L Stainless steel 316 L**

EN 10088-2 standard AISI 316L – X2CrNiMo17.12.2 – 1.4404

Since it contains molybdenum, stainless steel 316L is able to resist intergranular corrosion. This makes it particularly suitable for the chemical and food industries, the nitrate explosives industry and environments containing halogen (fluorine and chlorine).

**Pickling and passivation**

A stainless steel surface will have excellent corrosion resistance due to the chromium oxide layer on the surface of the product. With some stainless steels however, the surface areas can become subject to corrosion due to the depletion of chromium during welding, or the introduction of iron during a machining process (not applicable to most cable management products).

Where a uniform appearance is important after carrying out welding processes, it is often specified that all surfaces should be pickled and passivated to remove the smoke stain from the welding process. Also where extreme corrosion resistance is called for, this process may help to remove crevice corrosion from around the welding area.

**Pickling**

The pickling process involves the article being immersed in a blend of acids which dissolve iron and iron oxides which adhere to, or are embedded in, the surface of the stainless steel. These acids cause a removal of the surface layer of between 1 and 3 microns. The article is finally rinsed with water to complete this stage of the process.

**Passivation**

Passivation of the stainless steel will occur naturally after pickling when the oxygen in the air will react with the surface of the steel to form a passive chromium oxide layer. However it is usual for this passivation process to be speeded up by immersing the article in a nitric acid or other passivating agent.



Untreated



Pickled and passivated



Untreated



Pickled and passivated

Pickling and passivation gives Cablofil stainless steel wire cable tray a very light grey colour and a distinctly matt finish.

All Cablofil stainless steel products are pickled and passivated.

# Installation of services

## IN THIS SECTION...

### Steel wire cable tray systems

1. Design factors to consider
2. Loadings

## Steel wire cable tray systems

Cable tray systems are intended for the support of a combination of cables, electrical equipment and/or communication system installations. Where necessary cable tray systems may be used for the segregation of cables.

**Note : these systems are designed for use as supports for cables and not as enclosures giving full mechanical protection.**

These systems are covered by BS EN 61537.

### 1 Design factors to consider

Consideration should be given to the following factors when undertaking the design of a support system although some of these (e.g. snow/wind loads) may not be relevant to every installation.

**(i) Distributed loads (eg. cables, pipes)**
**(ii) Point loads**
**(iii) Snow, wind and external forces**
**(iv) Safety factor**
**(v) Deflection**
**(vi) Spacing of supports**
**(vii) Location of couplers**
**(viii) Testing of cables within a support system**
**(ix) Electrical continuity**
**(x) Earth protection**
**(xi) Electromagnetic compatibility (EMC)**

The following sections provide a wealth of useful information on each of these design aspects.

#### (i) Distributed loads

Before commencing the design process for a new installation it is usual to consider whether future changes in the pattern of demand for building services will impose increased loading requirements on the support system. If so, it is good design practice to allow both the physical space and sufficient load carrying capacity for the future addition of 25% more cables or other loading medium.

**Estimation of cable loads**

If full details of the cabling layout are available then the likely cable load can be calculated using either manufacturer's published information or the tables of cable weights and diameters which are given opposite. However, it is often necessary to select a tray design in the absence of accurate information on the likely cable load. To assist this selection process a useful approach can be to choose a likely size of tray and then to estimate the maximum cable weight which is capable of being contained within it. This estimate may be arrived at using the following guide :

Max. cabling capacity (kg/m) = cable laying area ($m^2$) x 2 800




Cable laying area ($m^2$) = W (m) x H (m)
Applicable to cable tray

**Note :** this formula only provides an estimate of the maximum load which can be physically contained within a tray. The ability of that tray to support such a load depends upon the spacing of its supports.

**Cable weights and diameters**

Tables 1 and 2 below give typical weights and diameters (D) for PVC sheathed, steel wire armoured cables with stranded copper conductors.

Tables 3 and 4 give typical weights and diameters for PVC sheathed, unarmoured stranded copper power cables. Cables with XLPE (cross linked polyethylene) insulation are usually slightly lighter so the information given may also be used for these cables too.

Values show approx. weight and diameter of typical cables.
D = Overall cable diameter.

**Table 1 : PVC armoured power/control cables to BS 6346**

| Nom. area of conductor (mm²) | 2 core | | 3 core | | 4 core | |
|---|---|---|---|---|---|---|
| | kg/m | D in mm | kg/m | D in mm | kg/m | D in mm |
| 1·5 | 0·3 | 12·3 | 0·3 | 12·8 | 0·4 | 13·5 |
| 2·5 | 0·4 | 13·6 | 0·4 | 14·1 | 0·5 | 15·0 |
| 4·0 | 0·5 | 15·1 | 0·5 | 15·8 | 0·7 | 17·8 |
| 6·0 | 0·6 | 16·5 | 0·7 | 18·0 | 0·9 | 19·2 |
| 10·0 | 0·9 | 20·1 | 1·0 | 21·2 | 1·2 | 22·8 |
| 16·0 | 1·0 | 21·9 | 1·2 | 23·1 | 1·7 | 26·3 |

**Table 2 : PVC insulated and sheathed circular surface wiring**

| Nom. area of conductor (mm²) | 2 core | | 3 core | | 4 core | |
|---|---|---|---|---|---|---|
| | kg/m | D in mm | kg/m | D in mm | kg/m | D in mm |
| 1·5 | 0·1 | 7·7 | 0·1 | 8·2 | 0·1 | 9·1 |
| 2·5 | 0·1 | 9·2 | 0·2 | 9·7 | 0·2 | 10·6 |
| 4·0 | 0·2 | 10·2 | 0·3 | 11·0 | 0·3 | 12·6 |
| 6·0 | 0·2 | 12·0 | 0·3 | 12·8 | 0·4 | 14·2 |
| 10·0 | 0·4 | 14·6 | 0·5 | 15·6 | 0·7 | 17·4 |
| 16·0 | 0·6 | 16·9 | 0·7 | 18·0 | 0·9 | 20·0 |

**Table 3 : PVC unarmoured stranded copper power cables to BS 6346**

| Nom. area of conductor (mm²) | 2 core | | 3 core | | 4 core | |
|---|---|---|---|---|---|---|
| | kg/m | D in mm | kg/m | D in mm | kg/m | D in mm |
| 25 | 0·7 | 18·4 | 1·0 | 20·4 | 1·3 | 22·7 |
| 35 | 0·9 | 20·0 | 1·3 | 22·4 | 1·7 | 25·0 |
| 50 | 1·2 | 22·2 | 1·7 | 25·4 | 2·3 | 28·6 |
| 70 | 1·7 | 24·6 | 2·4 | 28·4 | 3·1 | 32·2 |
| 95 | 2·3 | 28·2 | 3·3 | 33·1 | 4·3 | 37·2 |
| 120 | 2·8 | 30·9 | 4·0 | 36·0 | 5·3 | 40·6 |
| 150 | 3·5 | 34·1 | 4·9 | 39·7 | 6·5 | 45·0 |
| 185 | 4·2 | 37·8 | 6·1 | 44·1 | 8·0 | 49·8 |
| 240 | 5·5 | 43·2 | 8·0 | 49·6 | 10·6 | 56·2 |
| 300 | 7·0 | 47·2 | 9·7 | 55·0 | 13·2 | 62·5 |
| 400 | 8·5 | 53·2 | 12·6 | 61·4 | 16·7 | 69·6 |

**Table 4 : PVC armoured stranded copper power cables to BS 6346**

| Nom. area of conductor (mm²) | 2 core | | 3 core | | 4 core | |
|---|---|---|---|---|---|---|
| | kg/m | D in mm | kg/m | D in mm | kg/m | D in mm |
| 25 | 1·3 | 23·0 | 1·7 | 25·1 | 2·1 | 27·5 |
| 35 | 1·6 | 24·8 | 2·1 | 27·3 | 2·6 | 30·0 |
| 50 | 2·0 | 27·2 | 2·6 | 30·5 | 3·5 | 34·8 |
| 70 | 2·5 | 29·5 | 3·6 | 34·8 | 4·5 | 38·4 |
| 95 | 3·5 | 34·4 | 4·6 | 39·1 | 5·9 | 43·3 |
| 120 | 4·1 | 37·1 | 5·5 | 41·9 | 7·5 | 48·1 |
| 150 | 4·9 | 40·2 | 7·0 | 47·2 | 8·8 | 52·3 |
| 185 | 6·3 | 45·1 | 8·4 | 51·4 | 10·7 | 57·5 |
| 240 | 7·8 | 50·5 | 10·7 | 57·3 | 13·5 | 63·9 |
| 300 | 9·3 | 55·4 | 12·7 | 62·6 | 16·4 | 69·9 |
| 400 | 11·3 | 60·8 | 15·7 | 68·8 | 21·3 | 78·8 |

### (ii) Point loads

Point loads may consist of permanent equipment, such as lighting luminaires, junction boxes or other switchgear, or temporary loads such as commissioning equipment or installation personnel, however, consider 'safety during the installation phase'.

Analysis of uniformly distributed loads (UDL), such as cables or pipes is relatively simple but analysing the effect of a point load is quite complex; fortunately a simple alternative approach is available.

Firstly, one makes the reasonable assumption that the point load will be situated in the worst position at mid-span. The force this point load imposes can then be taken as equivalent to that imposed by a load of twice its value uniformly distributed along the span. Thus the point load can be converted to the equivalent uniformly distributed load which is then added to other UDL's to produce one total uniform load.

**Example:**

Point load = 30 kg

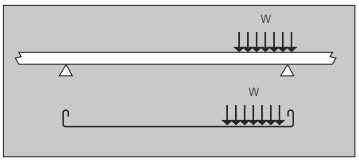
Support spacing = 3 m

UDL = 100 kg/m

**UDL equivalent to 30 kg point load =**
**2 x Point Load = 2 x 30 kg = 60 kg = 20 kg/m**
**Total UDL = 100 kg/m + 20 kg/m = 120 kg/m**

The suitability of a tray to carry this total load can then be considered using the loading graph information (see p. 125).

Although this treatment does assume the point load will be in the 'worst case' position, the installer should, given discretion, always position any point load as close as possible both to a support and to either side flange, minimising the stress on the installation, as per the following illustration.




### (iii) Snow, wind and external forces

The loading graphs show the maximum safe working steady load for each type of support system. If the system is outdoors and must also sustain snow, ice, wind or other variable forces these must also be taken into account at the design stage.

Appropriate design data for UK weather conditions is given in British Standard BS EN 1991.

### (iv) Safety factor

To arrive at a safe working load (SWL) for each type of equipment Legrand test their products to find the ultimate failure load. The SWL is obtained by dividing the load before failure by a factor of 1·7 minimum.

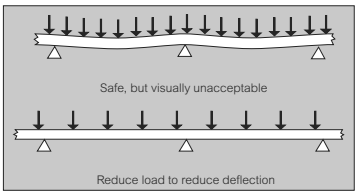
This safety factor may need to be increased by the designer depending upon the circumstances. For example, if the support system is expected to be subject to aggressive abuse a safety factor as high as three or more may be used. Such treatment is, however, the exception and care should be taken not to over-design the system by using an unnecessarily high safety factor.

### (v) Deflection

The deflection of a cable tray under load is not directly related to its strength but it is obviously of aesthetic importance. For this reason it may be necessary to estimate the likely deflection whilst designing an installation, especially if it will be in a highly visible location. Experience has shown that in order to maintain a degree of deflection which is subjectively acceptable to the eye, the load on the cable tray will often be restricted to well below its safe maximum.

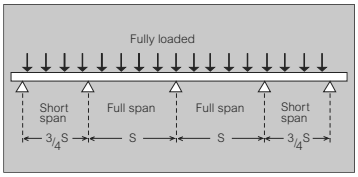
In the event of critical overload, a steel wire cable tray (wire mesh) structure becomes like a hammock.





**(vi) Spacing of supports**

Services support installations are usually considered as multi-span arrangements but it is important to recognise that the loading capability of the system is not uniform from end-to-end. The strength of the two end spans in any run is much lower than that of intermediate spans, even when the ends are rigidly fixed. In many situations the end spans will be more lightly loaded anyway; if however they are not and the installation will be fully loaded from end-to-end then it is recommended that the support spacing of both end spans should be reduced to no more than three quarters that of intermediate spans. However it is not a mandatory requirement, but is both useful and advisable.




Sometimes the necessary support spacing may be dictated by the nature of the building fabric. If however the designer has discretion over the spacing of supports the loading graphs can be used to maximise this distance. This will reduce the number of support components and fixings that will be required, thus reducing the overall cost of the installed system.

**Supports for cable tray (P2000)**

Some of the Cablofil steel wire cable tray loading graphs are denoted as P2000. This means setting supports at 2 metre apart instead of 1.5 metres, thus enabling the installer to reduce,
a) the number of supports used and
b) the overall installation time.

Example:

Span 1500 : 100 m / 1.5 = 67 supports

Span 2000 : 100 m / 2 = 50 supports

**Support of fittings**

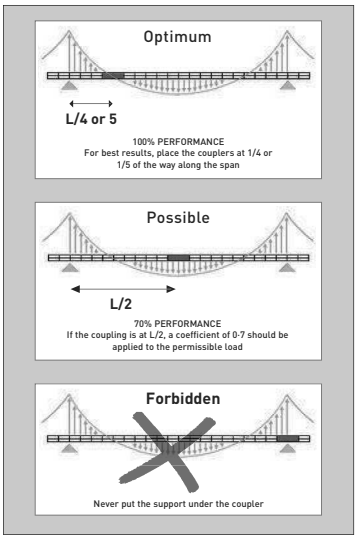
Cable tray fittings must always be provided with local support. The illustrations opposite give recommended support positions.

**(vii) Location of couplers**

In practice it is often impossible to predetermine where the couplers will be located within a straight run of cable tray. However it is well worth making some effort to roughly plan their position during the early stages of installation.

The worst positions for the couplers is directly underneath a support.

The best position for joints in a continuous installation is one quarter / one fifth of the span distance on either side of each point of support.

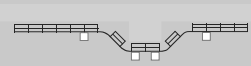


# Recommended support locations – steel wire cable tray

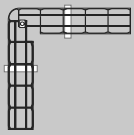
## Positioning of the supports

Changes of level and direction – put supports in place before there is any deflection of the cable tray route.

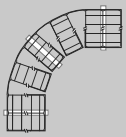
It is recommended to place supports at the start and end of 90° bends. A support must be positioned in the middle of large-radius bends.



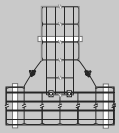














### (viii) Testing of cables within a support system

**Short circuits**

When an electrical short circuit occurs under fault conditions the current that flows can, in some instances, reach tens of thousands of amps and can last from a few milliseconds to several seconds depending on the electrical installation requirements. Such short circuit currents produce high magnetic fields which can interact to produce large mechanical forces. These forces can cause significant displacement of the cables and therefore some form of restraint must be provided to prevent damage to the cables.

For large diameter cables the most common form of restraint is by the use of cable cleats which hold the cables to the steel wire cable tray. Some force may therefore be transferred to the steel wire cable tray via the cable cleat, and could be sufficient to cause damage to the steel wire cable tray.

The calculation of the forces is complex and the effect on a steel wire cable tray system can only be fully determined by testing.

The main causes of short circuits are as follows :

- Damage to insulating material as a result of wear and tear or mechanical impact
- Broken conductors
- Conducting elements falling onto or otherwise coming into contact with the circuit

**Short circuit tests**

Tests were performed at a recognised independent laboratory (DAMSTRA) and in accordance to standard EN 50368 (2003) - Cable cleats for electrical installations, in order to validate Cablofil steel wire cable tray's mechanical resistance to the stress generated by a short circuit.

An initial short circuit is generated during the tests, creating mutual electromagnetic repulsion between the power cables.

The cable tray is then subjected to substantial mechanical stress for a very short time (approx. one second).The process is repeated in order to demonstrate that Cablofil steel wire cable tray is structurally intact and able to cope with another short circuit. As a final measure, additional tests are performed in a damp environment to check whether the cables are fully intact.

The various tests are run with 3 successive levels of short circuit current :

- 70 kA, equivalent to a repulsive force of 1 300 daN
- 100 kA, equivalent to a repulsive force of 2 700 daN
- 130 kA, equivalent to a repulsive force of 4 500 daN

Material used : 3 m length of CF105/450, coupled 1/5 of the way along the span, 5 fast couplers and a support span of 1·5 metres.

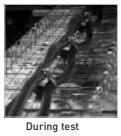
System configuration : 3 single conductor power cables, 38 mm in diameter, are attached every 600 mm using cleats.



| Intensity | Class | |
|---|---|---|
| | Class 1 | Class 2 |
| 70 kA | ✔ | ✔ |
| 100 kA | ✔ | ✔ |
| 130 kA | ✔ | ✔ |



Before test



During test



After test

**Conclusion**

The tests reveal that the steel wire cable tray shows no permanent deformation - its mesh structure is able to absorb the physical stress generated by a significant short circuit current.

The cables remain intact in their original positions and network availability is maintained.

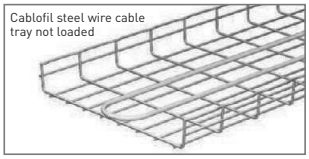
**Reliability and durability**
The two major considerations for the network infrastructures are the reliability and durability of the installation. In order to measure the positive contribution made by Cablofil steel wire cable tray, even when overloaded with cables, a series of independent tests were carried out.

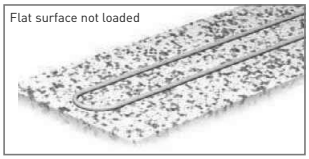
**• Independent tests**
The aim was to develop a detailed understanding of the short-term or long-term benefits of using Cablofil steel wire cable tray, as opposed to conventional flat-bottomed supports, for Cat. 5e and Cat. 6 cables. Cablofil steel wire cable tray lengths were tested by Intertek Testing Services, a division of ETL, the world's leading provider of testing, inspection and certification services.

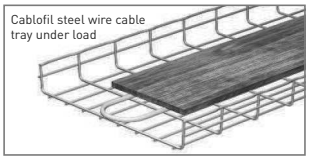
**• Measurements**
For the two tests described below, parameters relating to cable characteristics (NEXT, FEXT, Attenuation Return Loss, etc.) are measured in different configurations. The main parameter selected for comparison purposes is Return Loss. The aim is to define a cable's impedance regularity. Each irregularity causes the signal to return to its source.

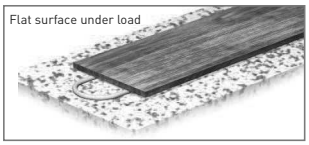
**• Test 1 : reliability under load**
90 metres of Cat. 5e and Cat. 6 cables were tested with no load, before being subjected to mechanical stress equivalent to the weight of 40 cables stacked together. Measuring and comparing the Return Loss for each configuration determines the effect of the support.

**Results :**
The tests show that, for a Category 5e or Category 6 cable subjected to a load of 40 cables, there is no significant difference in behaviour between Cablofil steel wire cable tray and a support with a flat base.




**• Test 2 : durability under load**
In order to establish how data cable installations change over time, the equipment is subjected to a simulated 15 year ageing process based on extremely stringent military standards and the same tests are performed. The cables and supports undergo 200 cycles over large temperature variations (-40°C to +85°C) over a period of 2 weeks.

**Results :**
The cable supported by Cablofil steel wire cable tray, an open and ventilated system, performs better than a cable laid directly on the floor.

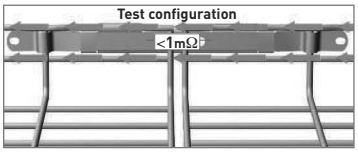
### (ix) Electrical continuity
Fundamental to providing safety to people and property, electrical continuity also plays an essential role in the EMC performance of an electrical installation.

**Definition**
The electrical continuity of a system is its ability to conduct electric current. Each system is characterised by its resistance (R).
If R = 0 Ω, the system is a perfect conductor.
If R is infinite, the system is a perfect insulator.
The lower the system's resistance, the better its electrical continuity will be.

**The importance of excellent electrical continuity**
Even at the same electrical potential each part of the steel wire cable tray run helps dissipate any fault currents :

**Tested for electrical continuity**
• Steel wire cable tray lengths
Tests show that Cablofil steel wire cable tray lengths more than meet the requirements of the standard IEC 61537, which stipulates that cable tray resistance must not exceed 5 mΩ/m.

• Steel wire cable tray couplers
The standard IEC 61537 states that coupler resistance must not exceed 50 mΩ. The test involves running an electric current ⟹ through the system (lengths + couplers) and measuring coupler resistance.




**Test results**
An average of 0·82 mΩ for Cablofil couplers. This is between 50 and 80 times better than the requirements given in the standard.
All Cablofil couplers are tested and compliant.
Please contact our technical support team on +44 (0)845 605 5334 for the full results of these tests.

### (x) Earth protection

Earthing an installation is vital for the safety of people and property. Furthermore it plays an active role in EMC.

**Definition**

The earth network is made up of all the metallic components of a building that are interconnected. These include beams, conduits, cable management, the metal frames or devices. All such elements must be interconnected to ensure the earth network is equipotential.

**Benefits of equipotential earthing network**

The equipotential earth network works like a system of conduits evacuating any fault currents and the parasite currents to earth. This provides a means of :

- protecting people and property
- obtaining a satisfactory EMC performance level

**Integrating steel wire cable tray into the earth network**

In order to benefit from the advantages in terms of safety and EMC, metallic cable trays must be connected to the earth network every 15 m.

Where tray runs are shorter than 15 m, the ends of each metal cable tray must be connected to earth.

Any electrical circuit thus formed by the cable tray must be closed to help remove any fault or noise currents which may arise.

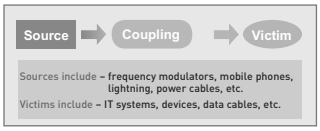
**Role of the protective conductor :** The protective conductor provides a simple and effective means of connecting the cable tray to earth.

### (xi) Electromagnetic compatibility (EMC)

Understanding EMC involves the analysis of electromagnetic pollution between a source of disturbance and its victim.

**Definition**

Electromagnetic interference is emitted by a source polluting a victim. Electromagnetic interference is transmitted by a process known as coupling. An EMC problem only occurs when the three elements source, coupling and victim are evident. To obtain a good EMC we simply need to eliminate one of the three elements or reduce its effect.




**Metallic cable trays with excellent electrical continuity, which are integrated into an installation's equipotential earthing network, reduce the effects of coupling and therefore improve an electrical installation's EMC.**

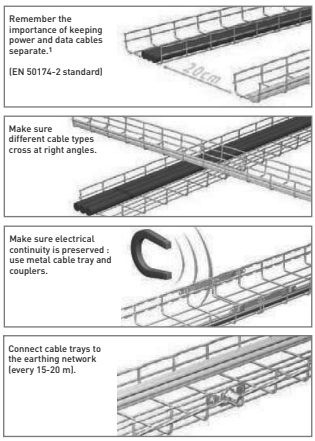
**The solution offered by Cablofil steel wire cable tray**

- Its open structure makes it easy to ensure correct separation by visual inspection
- Its easy installation and metal structure guarantee excellent electrical continuity in all cases : couplings, bends, changes of level, crossovers etc.
- Its open structure can reduce 'cross talk'

**EMC tests**

Tests conducted by the accredited and independent AEMC Measures and CETIM laboratories demonstrate the performance of Cablofil steel wire cable tray in relation to the EMC of the electrical installation.

**The golden rules!**



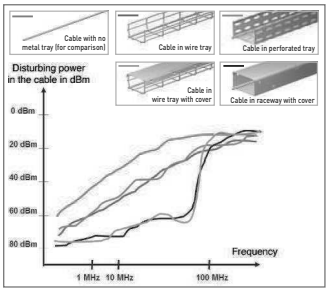

**1 :** The EN 50174-2 standard specifies how far cables must be kept apart. This depends on the type of data cable, the number of power cables and the type of cable tray. Otherwise, the distance of 20 cm provides a simple and sensible rule of thumb. For precise details, please contact our technical support team on +44 (0) 845 605 5334.

**• Test 1 - configuration:**
**Data cable in an external electromagnetic field**

AEMC MEASURES

A data cable (Category 5e UTP) is placed in an insulated anechoic chamber and subjected to a powerful artificially-generated electromagnetic field in order to simulate electromagnetic interference.

Each tray is connected to earth and subjected to the test :



**Results and interpretations**

A simple comparison of the measurements for the different cable tray configurations - steel wire cable tray (wire mesh) and perforated cable tray, with and without cover - makes it possible to quantify the role played by cable tray in relation to EMC.

**These tests show that there is no significant difference in 'Faraday cage' effect offered by steel wire cable tray (wire mesh) or perforated cable tray.**

These results show that it is vital :

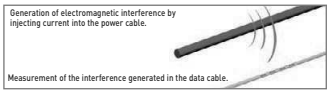
- to use metal cable tray
- to earth the cable tray
- to use a cover if required

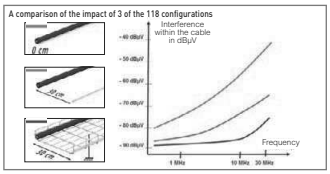
**• Test 2 - configuration:**
**Data cable alongside a power cable**

A Category 6 UTP data cable is placed inside an insulated anechoic chamber and subjected to an electromagnetic field generated by a power cable.
The following parameters are studied :

- Cable tray earthing
- Separation distances – 0, 10, 20, 30 cm
- Cable tray type – steel wire cable tray (wire mesh), perforated cable tray, trunking
- Separated cable trays
- One cable trays, with and without dividers

As a result, a total of 118 configurations are tested.




**Results and interpretations**

**This second test configuration confirms that metal cable trays reduce interference - steel wire cable tray (wire mesh) and perforated cable tray.**

To obtain a good EMC, these results show that it is vital :

- To use metal cable tray
- To earth the cable tray

## 2 Loadings

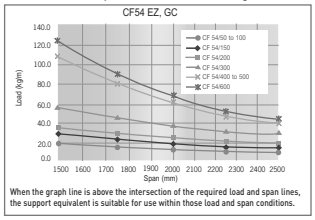
**First and foremost, steel wire cable tray must act as an effective, resistant and durable support for cables.**

**The mechanical performance of all products and accessories is tested against the very demanding requirements imposed by the international standard IEC 61537.**

**i) Safe working loads**

The permissable load stated in this catalogue represents the load that Cablofil steel wire cable tray is guaranteed to be able to bear. It assumes loads are evenly spread and is given in daN/m. The standard permits a deflection equivalent to 1/100th of the span. Legrand imposes a stricter limit of 1/200th for both safety and aesthetic reasons. For example, Legrand voluntarily restricts deflection to 10 mm for a span of 2 m, whereas the standard would allow 20 mm.

Load tests carried out to IEC 61537 (safety factor 1·7 + joint $^1/_5$ th of the way along the span). Permissable load should include all cable loads and any other additional loads (eg: wind, snow).




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

**(ii) Safe working loads for supports**

Brackets are classified by their permissible load (in daN).

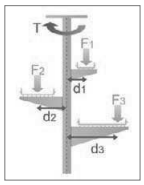
Hangers are classified by their permissible torque (in daN/m).

All Cablofil supports are tested and comply with the IEC 61537 standard.

**F** – is the load (in daN) applied to the support.

**d** – is the distance between the hanger axis and the load.

**T** – is the torque (in daN/m) applied to the hanger.



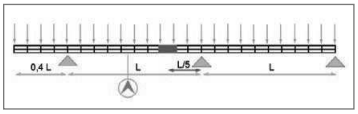

**Calculation rules :**

**Total F = F1 + F2 + F3 ← permissible hanger load**

**Total T = F1.d1 + F3.d3 – F2.d2 ← permissible hanger torque**

**(iii) Load tests : test configuration according to standard IEC 61537**

Each Cablofil steel wire cable tray has been tested in the required configuration, with a coupling 1/5th of the way along the span. Deflection is measured at the centre of the span.




The values given in this document have been obtained from extensive testing of our cable support equipment. They are given as a guide, so that customers may use Legrand's products to the best advantage; they are nevertheless average figures which are given in good faith, but without accepting any liability in contract, tort or otherwise in the event of different performance by equipment which is actually supplied.

# Fire resistance and protection

## IN THIS SECTION...

### Fire resistance

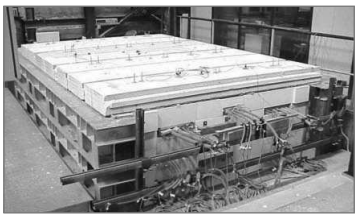
1. Standard DIN 4102-12
2. Recognised independent laboratories
3. Test configuration
4. Samples of configurations tested

## Fire resistance

**Safety is a major concern for everyone, but can only be achieved with knowledge of how electrical equipment behaves in the event of a fire. Cablofil steel wire cable tray has been successfully tested and proven to meet all fire safety requirements.**

### 1 Standard DIN 4102-12

The German DIN standard serves as a reference. As there is no European standard on fire resistance specifically for cable trays. The German standard specifies that the entire system of cable trays, accessories and cables must be tested in an oven which is at least 3 m long for a period of 30, 60 or 90 minutes at temperatures of up to 1 000°C.



| Period | Certification |
|---|---|
| → 30 minutes | E 30 |
| → 60 minutes | E 60 |
| → 90 minutes | E 90 |

The test aims to verify whether the electrical system is working properly and make sure that sources of critical data (emergency lighting, ventilators, emergency exit, fire alarm, etc.) can resist long enough to provide assistance in the event of a fire.

### 2 Recognised independent laboratories

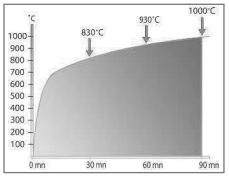
The IBMB (Institut für Baustoffe, Massivbau & Brandschutz) and FIRES laboratories are recognised centres for testing and issuing the associated certificates. They ensure that the test conditions described in the standard DIN 4102-12 are observed.

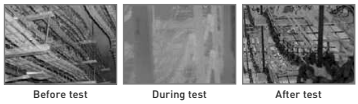
### 3 Test configuration

Cablofil steel wire cable tray standard products passed the tests without the need to develop an extensive or specific range. The configurations used by Legrand involve wire cable trays with two different spans (1 250 mm and 1 500 mm) subject to a maximum permissible load of between 2 kg/m and 20 kg/m. The increase in temperature follows the temperature curve (ETK) defined by DIN 4102-12.

The E 90 test does not in itself validate a wire cable tray, but validates the combination of Cablofil steel wire cable tray with a specific type of cable. This underlines the complexity, as well as the relevance, of these tests, which have already been passed by a number of cable types. Cables are tested in pairs.

The surprising appearance of the cable tray after the test is quite normal. The mechanical properties of the cables and cable tray are impaired but they achieved their objective; to ensure the durability of the installation for a given period.



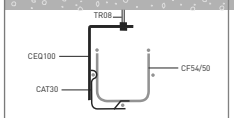



Before test | During test | After test

## 4 Samples of configurations tested

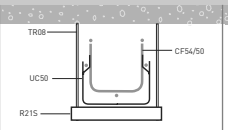
**Cablofil steel wire cable tray is certified to E 90 for a number of configurations that meet the requirements of data transfer facilities designed to ensure the protection of property and people in the event of a fire.**
**Below are 9 representative samples of the more than 20 configurations tested.**

### Light duty



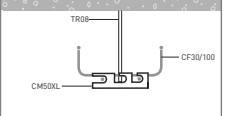

1 200 mm — 2 kg/m

CF54/50 EZ




1 200 mm — 5 kg/m

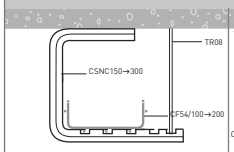
CF54/50 EZ




1 200 mm — 5 kg/m

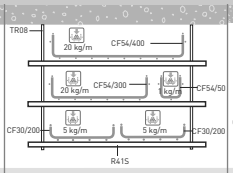
CF30/100 EZ

### Medium duty



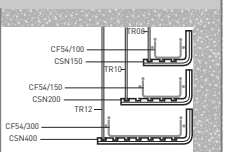

1 250 mm — 10 kg/m

CF54/100→200 EZ GC 304L 316L




1 200 mm — 1 kg/m to 20 kg/m

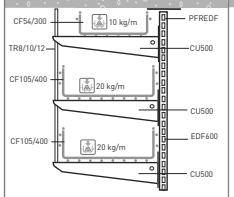
CF 54/50→400 EZ CF 30/200 EZ




1 250 mm — 10 kg/m

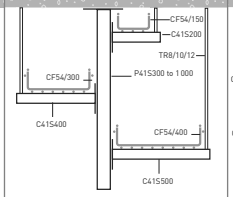
CF54/100→300 EZ GC 304L 316L

### Heavy duty



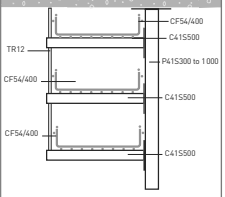

1 200 mm — 1 kg/m to 20 kg/m

CF54/300 EZ CF105/400 EZ




1 250 mm — 10 kg/m

CF54/150→400 EZ GC 304L 316L




1 250 mm — 10 kg/m

CF54/100→400 EZ GC 304L 316L

CABLOFIL

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## Contact details

**United Kingdom**

Great King Street North,
Birmingham, B19 2LF

**Customer Services:**
Tel: +44 (0) 845 605 4333 Fax: +44 (0) 845 605 4334
E-mail: legrand.sales@legrand.co.uk

**Quotations and Technical Support:**
Tel: +44 (0) 870 608 9020 Fax: +44 (0) 845 605 5334
E-mail: uk-cmsales@legrand.co.uk

**Republic of Ireland:**
Tel: 01 295 9673 Fax: 01 295 4671
E-mail: legrand.sales@legrand.co.uk




Distributor:

Head office (UK and Ireland):
Legrand Electric Limited
Great King Street North, Birmingham, B19 2LF
Tel: +44 (0) 870 608 9000 Fax: +44 (0) 870 608 9004
Website: www.legrand.co.uk

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