

# Electrical Cable Support Systems



A U S T R A L I A   W I D E   A U S T R A L I A N   M A D E



Quality Endorsed Company ISO9001 Lic No 13146

EDITION 2



ABN 43 008 701 335

ACN 008 701 335



## Company Profile

With over six decades of design, manufacturing and supply **Kounis Metal Industries** Pty Ltd has changed its name to **Kounis Group**. The change of name represents the broadening of our portfolio with greater diversification of products and services across all sectors of the business.

Our core belief and objective is to provide products and services of a quality which exceed customer expectations in respect to quality, performance, safety and price. This is reinforced by the positive growth of our core business whilst expanding into areas of new growth with the design and manufacture of transportable electrical switchrooms.

The Kounis Group Head Office is located in Western Australian and is also the location of its main manufacturing plant. In addition the group has several supporting workshops and warehouses located in Perth. The Kounis Group has a well-established large sales and warehousing facility in Melbourne to service the East Coast of Australia which carries comprehensive stocks of cable supports and standard products.

The Kounis Group is quality assured to ISO 9001 and prides itself on the quality of its products and services, along with its dedicated highly experienced equal opportunity workforce. With large stocks of standard products all of which conform to Australian Standards and an ability to manufacture and provide services in a minimum time frame the Kounis Group is able to offer unparalleled service levels across all areas of business.

### Manufacturing and Shipping Worldwide

- Precision and General Sheetmetal Work
- Electrical Switchboards
- Cable Support Systems
- Transportable Switchrooms
- Light to Medium Fabrication
- Rotor Resistance Starters
- Mining Enclosures
- Packaged sub-Stations
- CNC Turret Punching /Laser Cutting and Folding
- De-Watering Skids
- Architectural Screens and Perforating
- Switchboard Service Maintenance and Audits

**Managing Director**

**Dave Kounis**



## Health, Safety, Environment and Quality (HSEQ) Policy

The Kounis Group considers Health, Safety, Environment and Quality (HSEQ) an integral part of the company's business vision and values. Our objective is to provide, with the assistance of our people, a workplace that protects the safety and health of its employees, contractors, customers and visitors, whilst producing products and services of an outstanding quality.

The Kounis Group utilises its development and implementation of a documented and systematic HSEQ management system that includes the establishment of HSEQ business standards and supporting procedures, practices, guidance and information. A key aspect of this approach will involve the adoption of risk management for identifying, assessing, controlling and monitoring all areas of the business's operations. In maintaining this commitment, we have developed a Quality Assurance System (QAS) which incorporates all aspects of HSEQ, including objectives, targets and key performance indicators, all of which are utilised to enable continual improvement of operations.

### Objective

The Kounis Group will provide products and services of a quality which conform to customer requirements and consistently exceed our customer's needs and expectations. To achieve this, we have implemented a Quality Management System which conforms to ISO 9001. The Kounis Group aims to strive towards continuous improvement in products and services for our customers by providing the appropriate training, resources (both internal and external), equipment, training, support and reference materials to ensure its HSEQ objectives are met.

### Management Responsibilities

The Managing Director is ultimately responsible for HSEQ management and compliance throughout the company. All managers, supervisors and leading hands are responsible for work areas under their control. HSEQ procedures are in place and observed, and for communicating and implementing the necessary information and guidance to achieve the company's objectives. Managers, supervisors and leading hands are expected to continuously promote and maintain a high standard of quality and safety in their respective work areas and to lead by example and encourage involvement of employees.

### Employee Responsibilities

Employees are responsible for actively participating in the HSEQ management system requirements. This includes working in a safe and healthy manner, participating in training, complying with company procedures, instructions and directions. And not adversely affecting the safety of fellow employees, contractors, customers and visitors, reporting of hazards or incidents, and ensuring the quality of both product and service.

### Communication

The Kounis Group, through our consultative process, encourage two-way communication, cooperation and involvement of management, employees, contractors and customers in the ongoing development of our HSEQ management system (QAS).

#### Managing Director

**Dave Kounis**

November 2016

## Cable Support Systems

### Design and Cable Support System Selection

#### Design Standard

The Kounis Group Cable Support Systems has been designed to provide a rigid and convenient system to support cable and pipe runs over spans up to 6 m. Kounis Group have designed and tested the range of supports to the NEMA Standards VE-1 to give a range of class rating to meet the requirements of the industry. The NEMA Standard is published by the National Electrical Manufacturers Association based in the U.S.A. This is generally referred to in Australia for design guide lines as there are no Australian Standards. The Standard gives a clear loading to span classification with a 1.5 factor of safety on the collapse load when tested on a simple span which would be the worst case.

#### NEMA Rating

The rating system is based on the Span distance in feet together with the safe working uniform load Category A, B and C, where:

*Span:* Rating ladder span of 12 ft (3.6 m), 16 ft (4.8 m), and 20 ft (6 m)

*Loading:* Safe working uniform load rating of A (75 kg/m), B (112 kg/m) and C (149 kg/m) incorporating a 1.5 Factor of Safety.

Example: 20C class ladder has a safe working load of 149 kg/m over a 20 ft (6 m) span

**Electrical Continuity** According to the NEMA Standards VE-1 the maximum electrical resistance requirement for splice plate connections is 330 micro-ohms to ensure a safe ladder installation

The splice plate connections maximum electrical resistance required by NEMA Standards VE-1 is 330 micro-ohms to ensure

a safe ladder installation. Kounis Group have tested the splice plates on the cable support system range and they have complied with the NEMA Standard VE-1 standard.

#### Cable Support Selection

To arrive at a suitable design for a Cable Support System there are a few design parameters to consider. Both for Cable Tray and Ladder these are similar, however, the Cable Ladder requirements are generally more demanding than cable tray where the ladders support the main cable route for primary power cables or pipeline supports. The following consideration should be made when selecting a Cable Support System.

#### Cable Ladder

There are four primary considerations for Cable Ladder design:

1. Cable weight or pipe loading that is to be supported over a required span. This determines the side rail height of the support profile which also has to have sufficient internal cable laying depth to take the total height of the cable or pipe. Generally the load will not protrude past the top of the ladder side rail.
2. The required support span or distance between brackets when related to the load determines what the mid span deflection will be. For a standard mid span beam deflection ratio this would be 1/180 of the span but for minimal apparent visual deflection 1/360 would be advisable. By reducing the deflection this can make for a heavier duty ladder requirement or span reduction requiring additional supports and so making for additional costs.

3. It is important to evaluate the environmental condition where the Cable Support System is to be installed. Standard Cable Ladder supply is from Mild Steel with a Hot Dip Galvanised finish. In most circumstances such as in mining or on processing plants this would be a good economical choice for a lifespan of over 10 years. For use in areas where there are corrosive chemicals or salt laden air the life span of the system would decrease and it could be cost effective to specify Stainless Steel or Aluminium to avoid replacement costs and loss of production.
4. The Kounis Group range of Standard Cable Ladder is from 150 mm wide and then with progressive incremental sizes of 150 mm up to and including 600 mm wide. This gives a wide range for choice and we can also produce widths over the maximum for specific installations where required. Kounis Group Standard fittings can usually cater for most cabling but other radii fittings to suit bend radius of large diameter cabling can be supplied where required. Where reinforced fittings are required allowing for large radius without any additional support brackets Kounis Group make a Structural Type Ladder System. This is a cost effective system for use to minimize deflection or flexing in the fittings and can be used in demanding conditions or cyclonic regions.
2. The Support Span which has to take the cable weight determines the type of tray profile that is to be used. The mid span deflection should be kept to a minimum with positioning of joints adjacent to a support point.
3. Where a multiple quantity of smaller size cables are to be supported a deeper size tray would be required. This is due to the physical depth of cables to be laid on the tray and not necessarily weight.
4. Cable Trays are usually installed inside of buildings so Pre-Galvanised Steel (Galvabond) is the standard material for this type of environment. Where there are corrosive or exposed external conditions other materials such as Aluminium, 316 Stainless Steel or Hot Dip Galvanised can be supplied. Also a powder-coat finish over the Galvabond material is another option.

Generally Kounis Group Cable Tray Systems have a rolled safety edge on the top of the side rail to avoid any damage to cables that are routed out of the tray. The Ladder Tray has slots for cables to drop through the formed channel.

There are a wide range of Kounis Ladder or Tray Support Systems which are stocked and together with our K-Strut Support Channels, Brackets and Framing System enable the designer to solve any support installation.

The following sections of this catalogue give further details of the Kounis Group Cable Support Range together with our identification codes for ease of identification and procurement. Kounis Group have a proud history of supplying a top quality system of Cable Supports made to meet the demands of the mining, construction, commercial, offshore oil and gas operations.

## Cable Tray

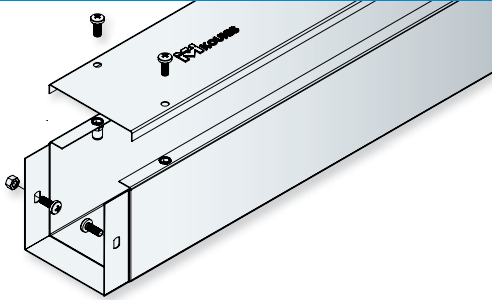
There are four primary considerations for Cable Ladder design:

1. Calculate the total maximum cable weight that is to be supported over a required support span. This determines the tray side support profile which also has to have sufficient internal cable laying depth to take the total height of the cable.

E.&O.E.

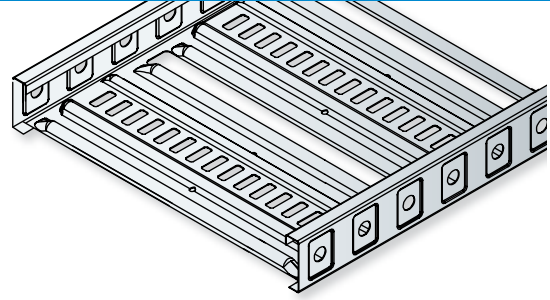
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## Cable Ducting



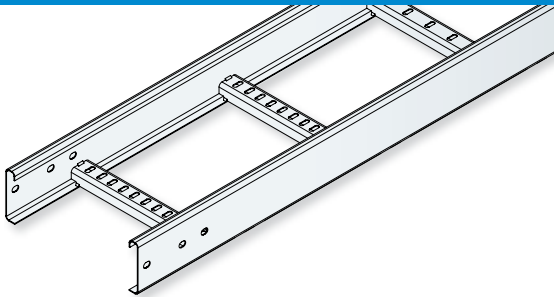
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## Cable Tray



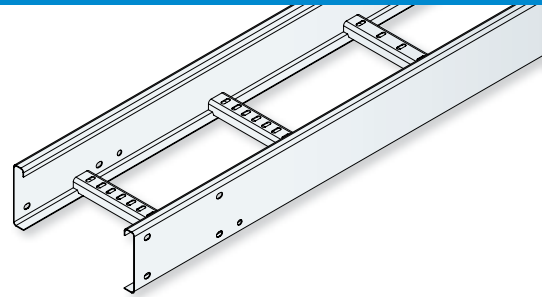
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## Cable Ladder (Hot Dipped Galvanised)



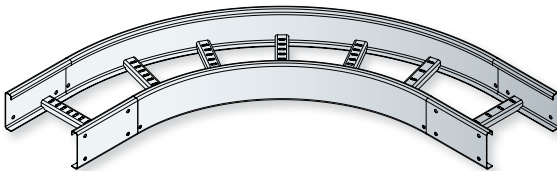
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## Cable Ladder (Stainless Steel & Aluminium)



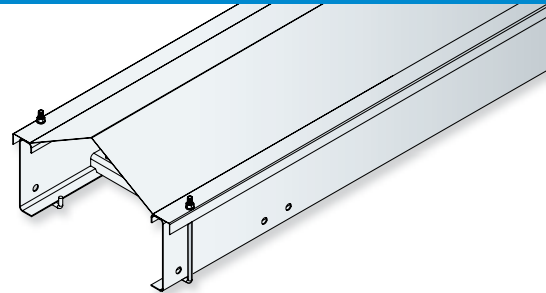
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## Structural Ladder System



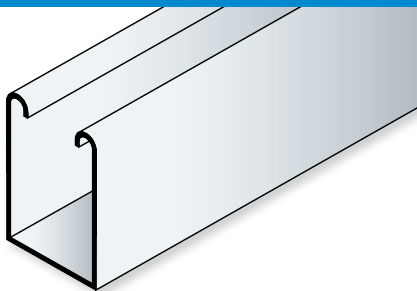
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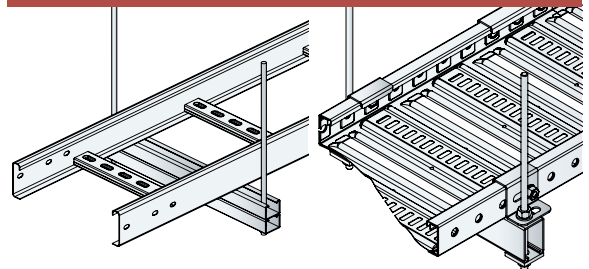
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## K-Strut Support Systems



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## Fire Rated Cable Support System



FIRE RATED SECTION See separate catalogue for Fire Rated Cable Support

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**FIRE RATED SECTION** See separate catalogue  
for Fire Rated Cable Ladder and Tray Systems.  
Fire rated to AS/NZS 3013:2005

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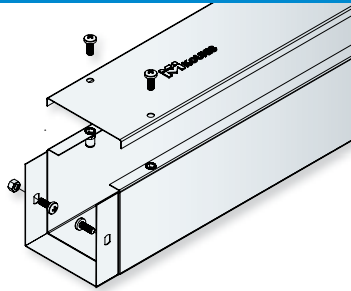
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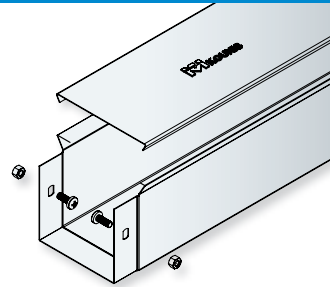
## SECTION 1: Cable Ducting

Screw on Lid Cable Duct



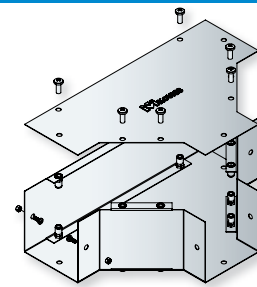
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Clip on Lid Cable Duct



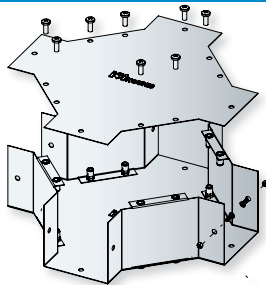
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Equal Tee



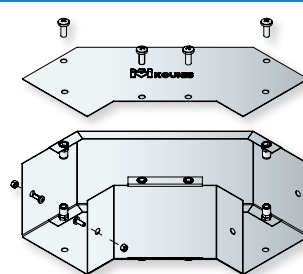
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Equal Cross



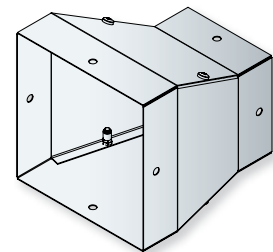
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Combination Bend/Riser



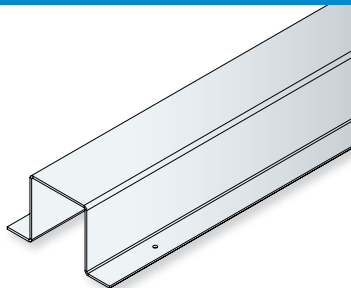
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Reducers



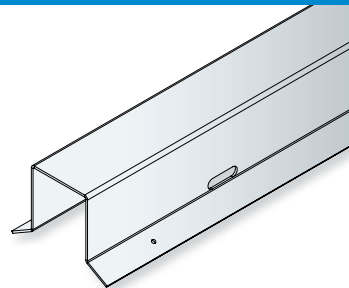
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Surface Mounted Cable Covers



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Pole Mounted Cable Covers



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# Cable Duct Systems

## General Description

The Kounis Group Cable Duct Systems were developed for use in commercial and industrial applications.

This product range offers complete versatility when undertaking cable installations where segregation and mechanical protection is required

The finished product is constructed from 0.75 mm base material of which there are three finish options **Galvabond**, Mild Steel with post production **Hot Dip Galvanised** surface treatment and 316 Grade **Stainless Steel**. System options are;

**Clip On Lid Ducting System** – Offers a simple and economical means for supporting cables. The lid simply clips on and off for a no tools required access to the cabling

**Screw On Lid Ducting System** – Offers a more robust and secure means for supporting cables, especially in vertical applications. For added security against tampering optional Prolok clutch head screws can be supplied in place of standard Phillips drive fasteners.

All of which include the following features:

- 2.4 m length
- Multiple width & height options
- Self-splicing ends making for cost efficient installation by eliminating the need for additional materials
- A full range of self splicing combination fittings to suit
- Option for shop fitted divider strip to form separate compartments
- Option for cable tie off points evenly spaced across straight lengths
- Option for conduit entry knockouts

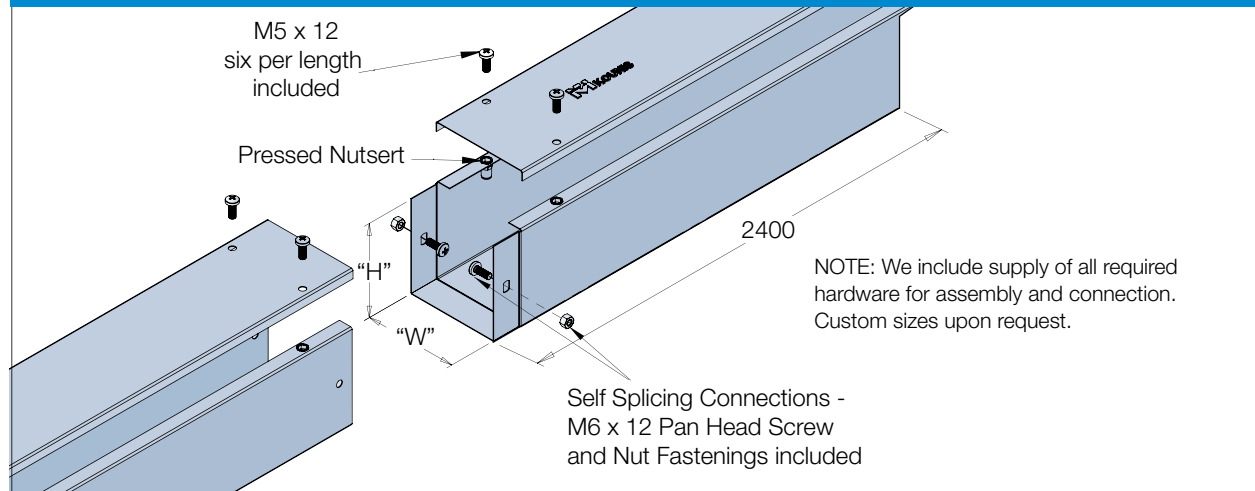
Custom sizes and painted finish is available on request

### Kounis Group Standard Colour Range

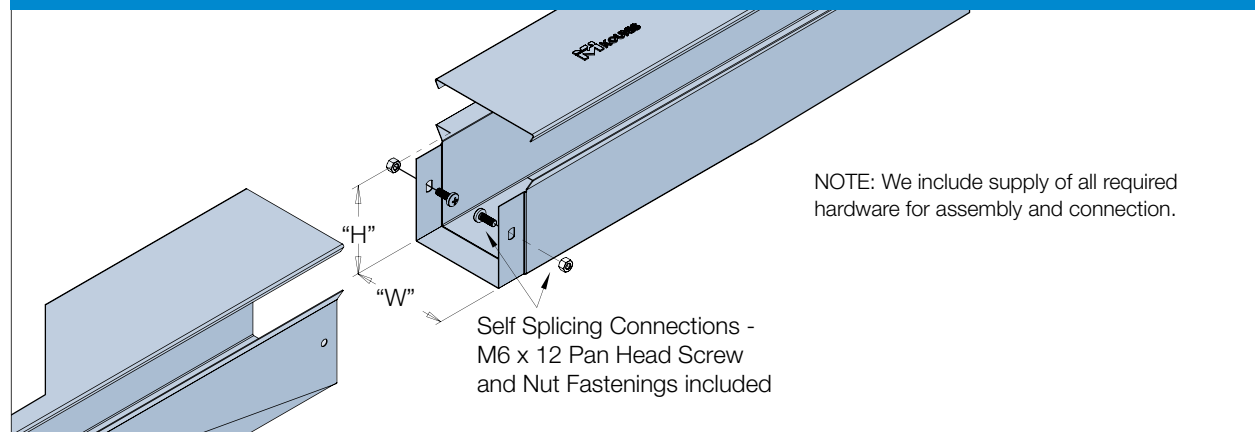
Optional Polyester Powder Coat finishes can be provided from our standard stock colours. Our range is White, Black, Orange and Grey Hammertone. Other colours or epoxy powder coat finish can be provided to firm orders.

# Cable Duct

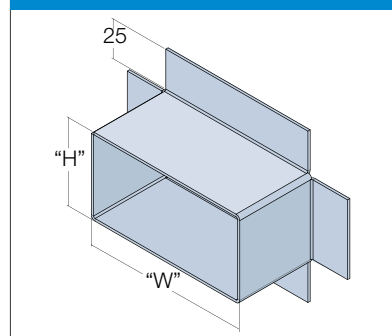
## Screw on Lid Cable Duct



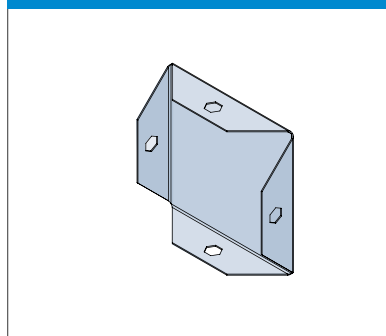
## Clip on Lid Cable Duct



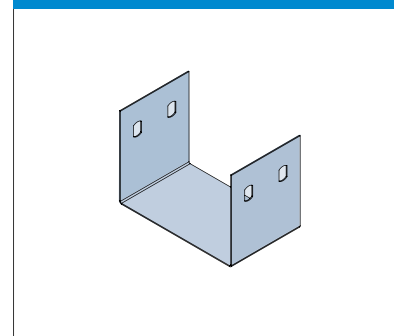
### Flange



### End Cap



### Splice Plate



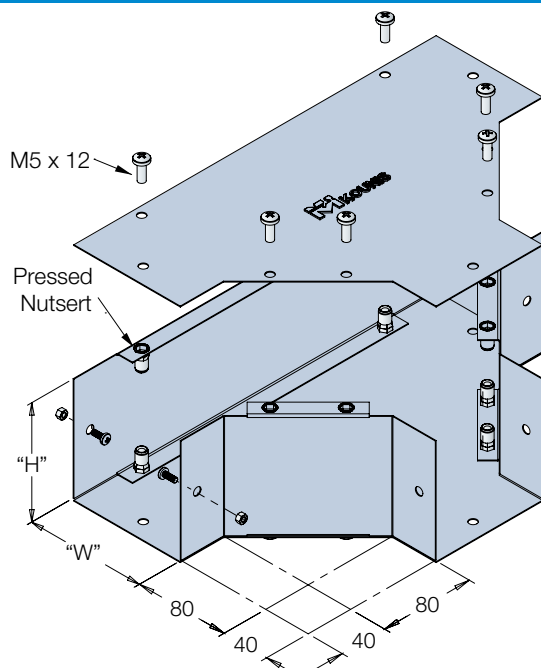
## When Ordering

Range	Type	Size	Std.Finish	Fastenings	Finish
<b>KD</b>	<b>S</b>	<b>55</b>	<b>G</b>	<b>K</b>	<b>PC-COL</b>
KD = Duct & Lid	S = Screw On Lid C = Clip On lid P = Splice Plate E = End Cap F = Flange D = Divider only (see note) DWLD = Divider fitted	55 = 50 x 50 mm 77 = 75 x 75 mm 105 = 100 x 50 mm 1010 = 100 x 100 mm 1510 = 150 x 100 mm 1515 = 150 x 150 mm	G = Galvabond H = Hot Dip Galvanised S = 316 Stainless Steel	K = Includes all Bolts and Nuts	PC-COL = Paint Painted Finish to Kounis standard colour range
ORDERING EXAMPLE SHOWN: Cable Duct & Lid with Screw on lid 50 x 50 mm Galvabond c/w Bolts and Nuts. Painted Finish to specification colour				NOTE: Dividers to show height size only i.e. 50 for 50 x 50 duct	

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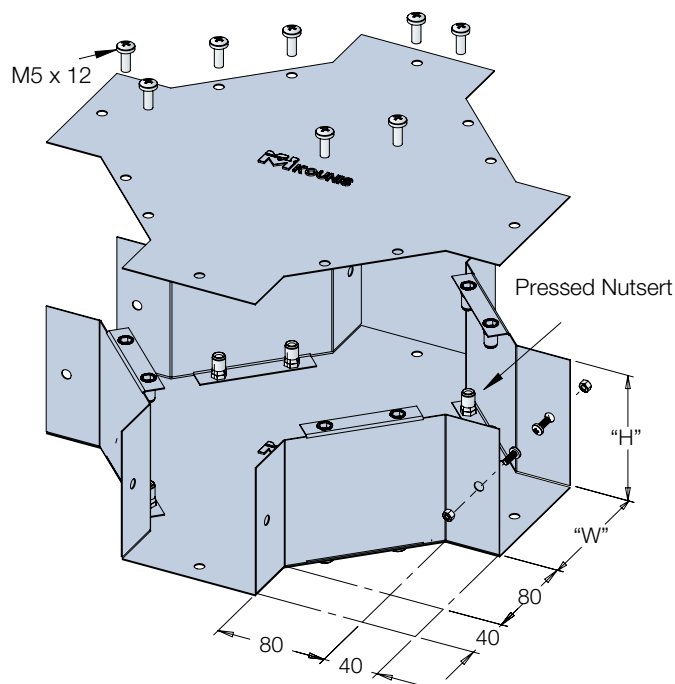
# Cable Duct Fittings

## Equal Tee



NOTE: We include supply of all required hardware for assembly and connection.

## Equal Cross



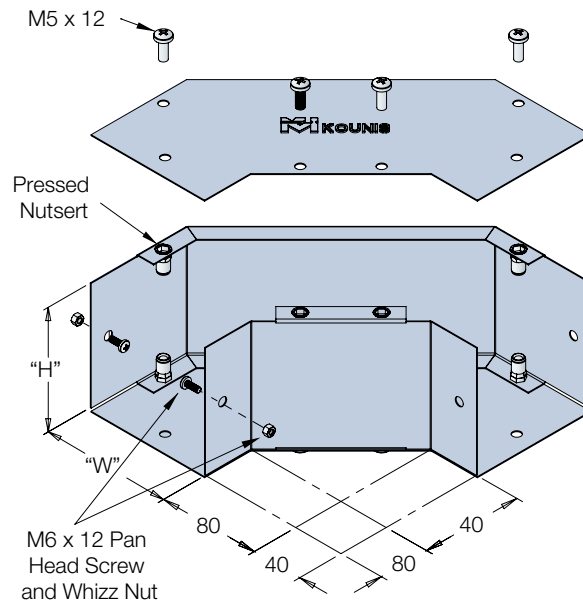
## When Ordering

Range	Type	Size	Std.Finish	Fastenings	Finish
<b>KD</b> KD = Duct & Lid	<b>TS</b> TS = Tee Equal XS = Cross Equal  Screw on lids	<b>55</b> 55 = 50 x 50 mm 77 = 75 x 75 mm 105 = 100 x 50 mm 1010 = 100 x 100 mm 1510 = 150 x 100 mm 1515 = 150 x 150 mm	<b>G</b> G = Galvabond H = Hot Dip Galvanised S = 316 Stainless Steel	<b>K</b> K = Includes all Bolts and Nuts	<b>PC-COL</b> PC-COL = Paint Painted Finish to Kounis standard colour range
ORDERING EXAMPLE SHOWN: Cable Duct Equal Tee with Screw on lid 50 x 50 mm Galvabond c/w Bolts and Nuts. Painted Finish to specification colour				NOTE: Unequal Tees and crosses made to firm order.	

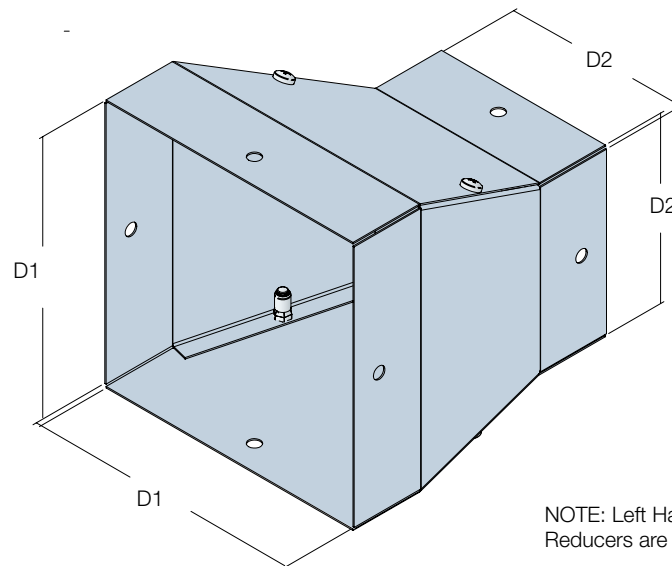
E.&O.E.

# Cable Duct Fittings

## Combination Bend/Riser



## Straight Reducer



NOTE: Left Hand and Right Hand Offset Reducers are also available to order.

## When Ordering

Range	Type	Size	Std.Finish	Fastenings	Finish
<b>KD</b>	<b>BS</b>	<b>55</b>	<b>G</b>	<b>K</b>	<b>PC-COL</b>
KD = Ducts and Lid	BS = Bend 90° RS = Riser 90° SRS = Straight Reducer (D1 to D2) Screw on lids (see note)	55 = 50 x 50 mm 77 = 75 x 75 mm 105 = 100 x 50 mm 1010 = 100 x 100 mm 1510 = 150 x 100 mm 1515 = 150 x 150 mm	G = Galvabond H = Hot Dip Galvanised S = 316 Stainless Steel	K = Includes all Bolts and Nuts	PC-COL = Paint Painted Finish to Kounis standard colour range

ORDERING EXAMPLE SHOWN: Cable Duct Bend 90° with Screw on lid 50 x 50mm Galvabond c/w Bolts and Nuts. Painted Finish to specification colour. NOTE: Bends can also be used as risers for square duct only.

NOTE: 45° bend/riser option shown after size (eg: 5545 code) for alternative.

E.&O.E.

# Surface & Pole Mounted Cable Covers

## General Description

The Kounis Group Cable Covers are developed for use in commercial and industrial applications that require mechanical protection over conduit or cable runs.

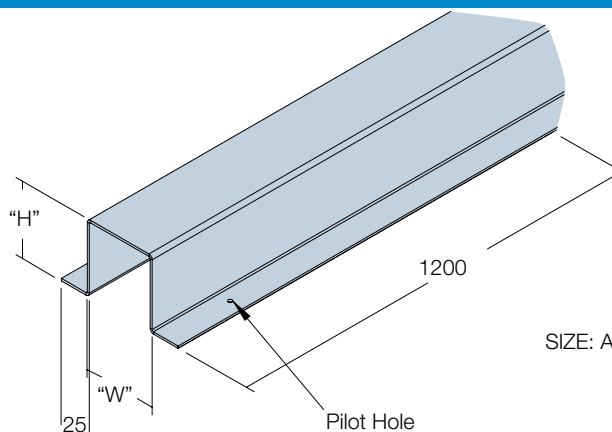
The finished product is constructed from 1.6 mm Mild Steel with post production **Hot Dip Galvanised** surface treatment or 1 mm 316 Grade **Stainless Steel**.

Stock standard sizes are designed to fit over common size Electrical and Communications conduit systems.

Pole and Surface Mounted Covers come complete with pilot holes for fixing; Pole covers come with the addition of slotted holes positioned at the return fold for strap fixing.

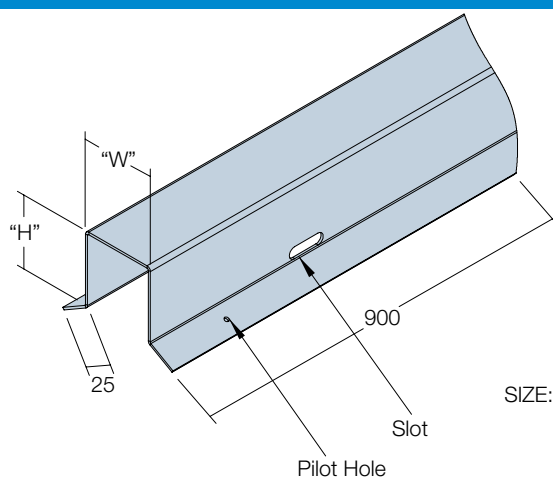
Custom sizes and painted finish is available on request.

### Surface Mounted Cable Covers



SIZE: All dimensions are millimetres and inside sizes.

### Pole Mounted Cable Covers



SIZE: All dimensions are millimetres and inside sizes.

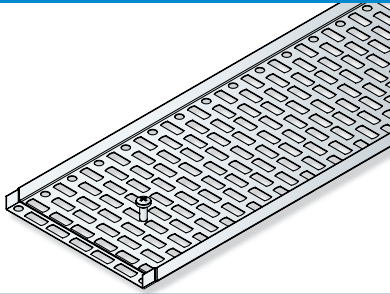
## When Ordering

Range	Size	Std.Finish	Finish
<b>KSM</b>	<b>25</b>	<b>H</b>	<b>PC-COL</b>
KSM = Surface Mounted Cover	25 = 25 x 25 mm	H = Hot Dip Galvanised	PC-COL = Paint
KPM = Pole Mounted Cover	32 = 32 x 32 mm	S = 316 Stainless Steel	Painted finish to Kounis standard colour range
	38 = 38 x 38 mm	G = Galvabond	
	50 = 50 x 50 mm		
	75 = 75 x 75 mm		
	100 = 100 x 100 mm		
ORDERING EXAMPLE SHOWN: Surface Mounted Cover 25 x 25 mm Hot Dip Galvanised. Painted Finish to specification colour.			

E.&O.E.

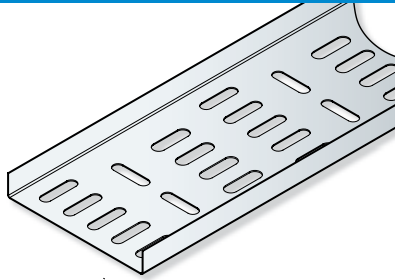
## SECTION 2: Cable Tray

Admiralty Pattern Tray



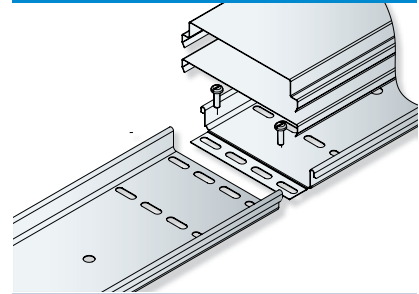
> 2:3

Continuous Punch Cable Tray



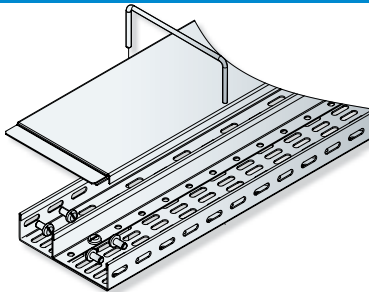
> 2:5

Light Duty Tray



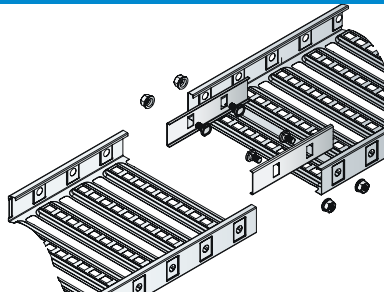
> 2:7

CT Heavy Duty Cable Tray



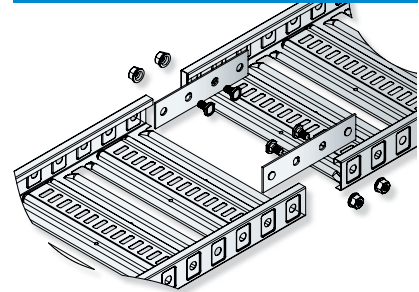
> 2:10

KT2 Ladder Tray



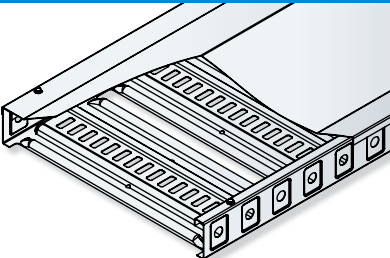
> 2:13

KT3-5 Ladder Tray



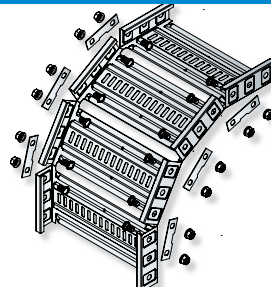
> 2:18

KT3-5 Ladder Tray Covers/  
Trapeze Supports



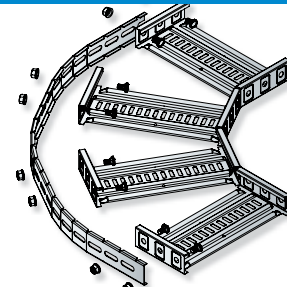
> 2:19

KT3-5 Ladder Tray Riser & Tee



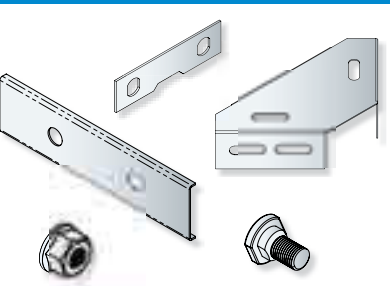
> 2:20

KT3-5 Ladder Tray Bend & Cross



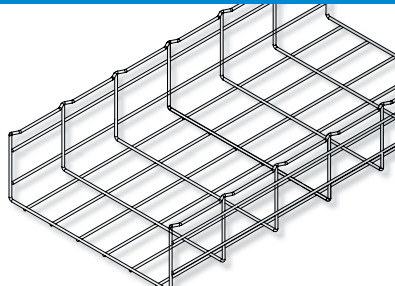
> 2:21

KT2-5 Ladder Tray Accessories



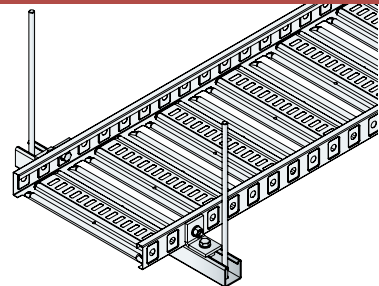
> 2:22

Cable Mesh Tray



> 2:23

Fire Rated Cable Supports



See separate catalogue for Fire Rated Cable Support details

**FIRE RATED SECTION** See separate catalogue for Fire Rated Cable Ladder and Tray Systems.  
Fire rated to AS/NZS 3013:2005



# Admiralty Pattern Tray

## General Description

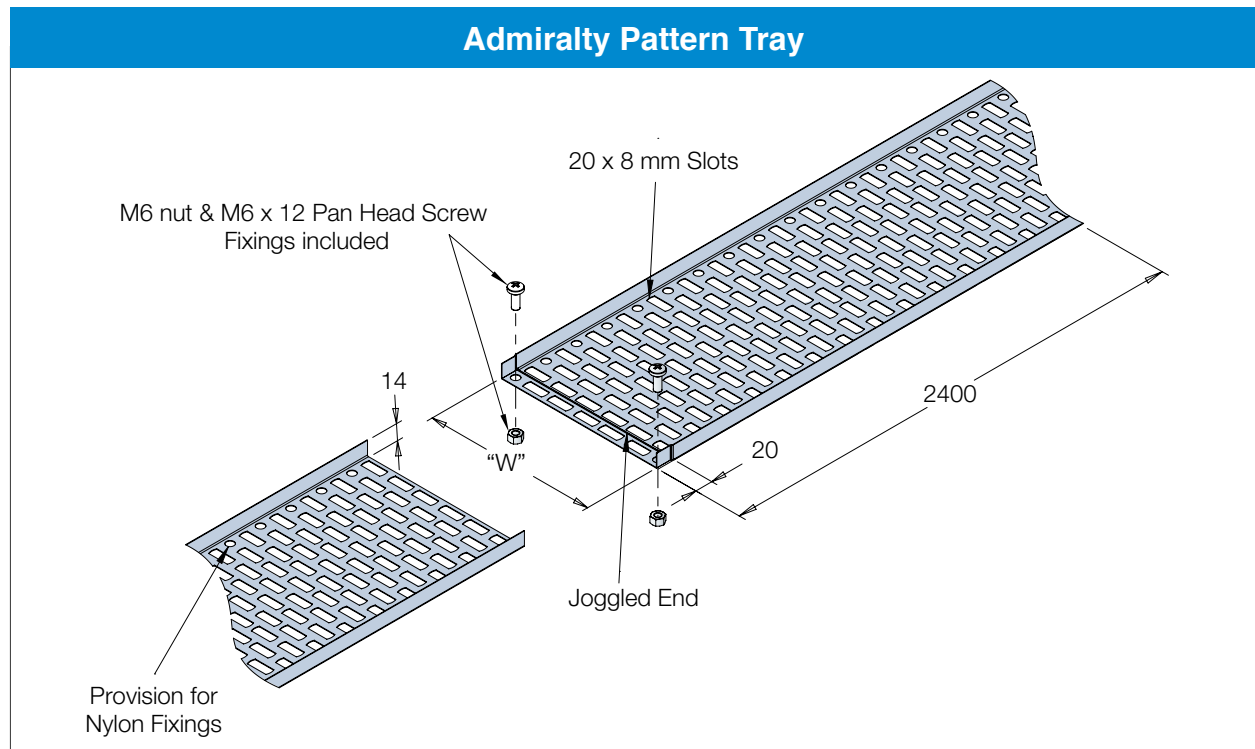
The Kounis Group Admiralty Pattern Tray System was developed for use in general applications where installers are looking for an economical option for cable management.

The finished product is constructed from 0.75 mm base material of which there are two options; **Galvabond** and post production **Hot Dip Galvanised** surface treatment. Both of which offer the following features:

- 2.4 m length
- 14 mm side
- Self-splicing ends making for cost efficient installation by eliminating the need for additional materials
- Perforated tie off points at 25 mm continuous centres offering superior ventilation and efficient use of tray width
- Reverse punched to ensure burr free cable laying surface
- A full range of fittings available (**made to order**)

Painted finish is available on request.

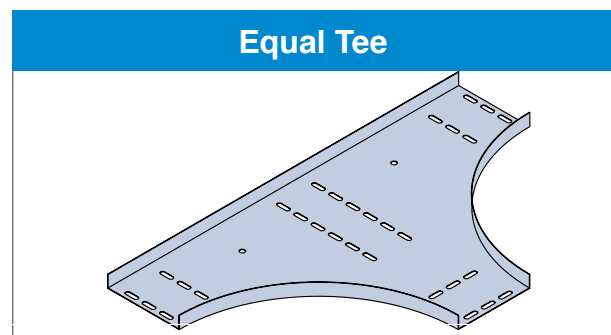
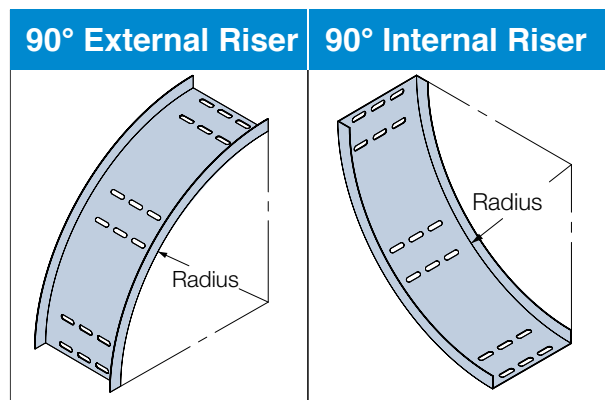
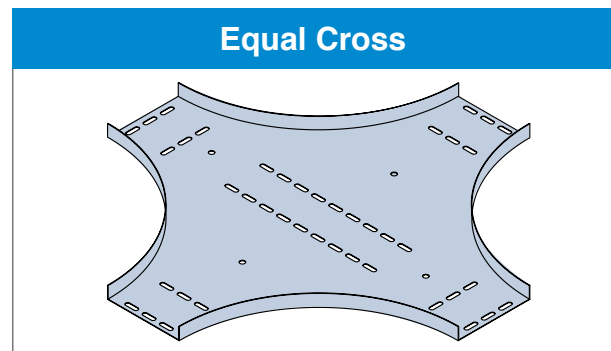
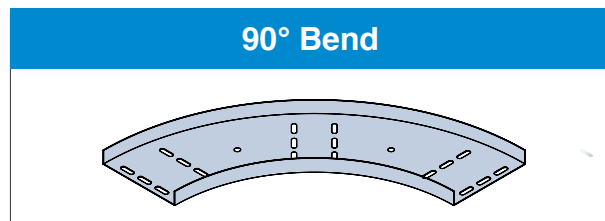
# Admiralty Pattern Tray



CABLE TRAY

Admiralty Pattern  
Tray & Fittings

## Fittings Available on Request



## When Ordering

Range	Type	Wide	Std.Finish	Fastenings	Finish
<b>KAP</b> KAP = Admiralty Pattern Tray	<b>T</b> T = Tray TB = Bend 90D TT = Tee Equal TC = Cross Equal TRX = External Riser 90° TRI = Internal Riser 90°	<b>7</b> 7 = 75 mm 10 = 100 mm 15 = 150 mm 23 = 230 mm 30 = 300 mm 45 = 450 mm 60 = 600 mm	<b>G</b> G = Galvabond H = Hot Dip Galvanised	<b>K</b> K = Includes all Bolts and Nuts	<b>PC-COL</b> PC = COL = Paint Painted Finish to Kounis standard colour range
ORDERING EXAMPLE SHOWN: Admiralty Pattern Tray 75 mm wide Galvabond c/w Bolts and Nuts. Painted Finish to specification colour. NOTE: Unequal Tees and crosses made to firm order.				NOTE: 45° bend/riser option shown after size (eg: 745 code) for alternative.	

E.&O.E.

# Continuous Punch Cable Tray

## General Description

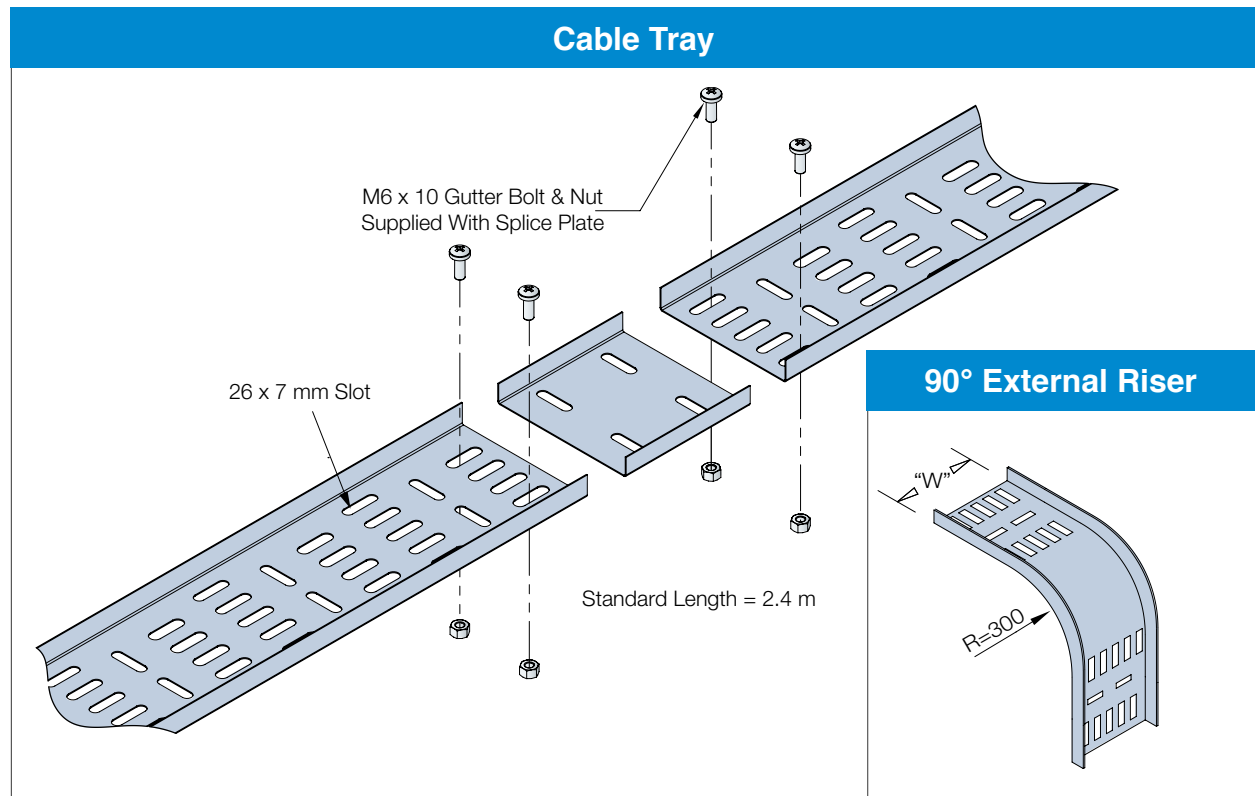
The Kounis Group Continuous Punch Cable Tray System was developed for use in Instrumentation and shipbuilding applications where the surrounding environment calls for a low profile medium durability system that can withstand impact from wind and loose debris.

The finished product is constructed from a variety of material finishes and thicknesses ranging from; **Galvabond** 0.90 mm, **Hot Dip Gavanised** 0.90 mm, 316 Grade **Stainless Steel** 0.90 mm and **Aluminium** 2.0 mm. All of which offer the following standard features and options:

- 2.4 m length
- 14 mm side
- Perforated tie off points at running length and width wise consecutively offering multiple options for cable tie off and superior ventilation
- A full range of fabricated fittings to suit

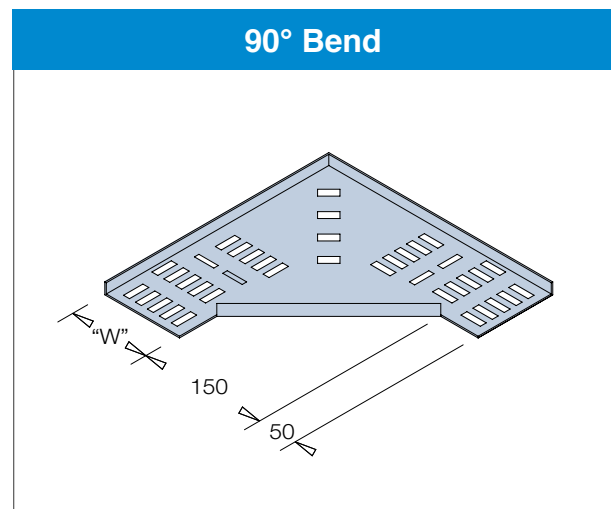
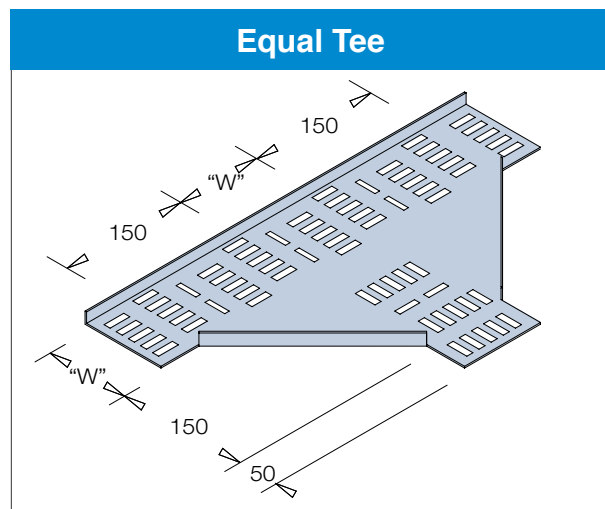
Custom sizes and painted finish available on request

# Continuous Punch Cable Tray



CABLE TRAY

Continuous Punch Tray & Tray Fittings



## When Ordering

Range	Type	Wide	Std.Finish	Fastenings	Finish
<b>CP</b> CP = Continuous Punch Cable Tray	<b>T</b> T = Tray B = Bend 90° TT = Tee Equal C = Cross Equal RX = External Riser 90° RI = Internal Riser 90° P = Spice Plate	<b>7</b> 7 = 75 mm 10 = 100 mm 15 = 150 mm 23 = 230 mm 30 = 300 mm 45 = 450 mm 60 = 600 mm	<b>G</b> G = Galvabond H = Hot Dip Galvanised A = Aluminium S = Stainless Steel	<b>K</b> K = Includes all Bolts and Nuts	<b>PC-COL</b> PC = COL = Paint Painted Finish to Kounis standard colour range
ORDERING EXAMPLE SHOWN: Continuous Punch Tray 75 mm wide Galvabond c/w Bolts and Nuts. Painted Finish to specification colour				NOTE: 45° bend/riser option shown after size (eg: 745 code) for alternative.	

# Light Duty Tray

## General Description

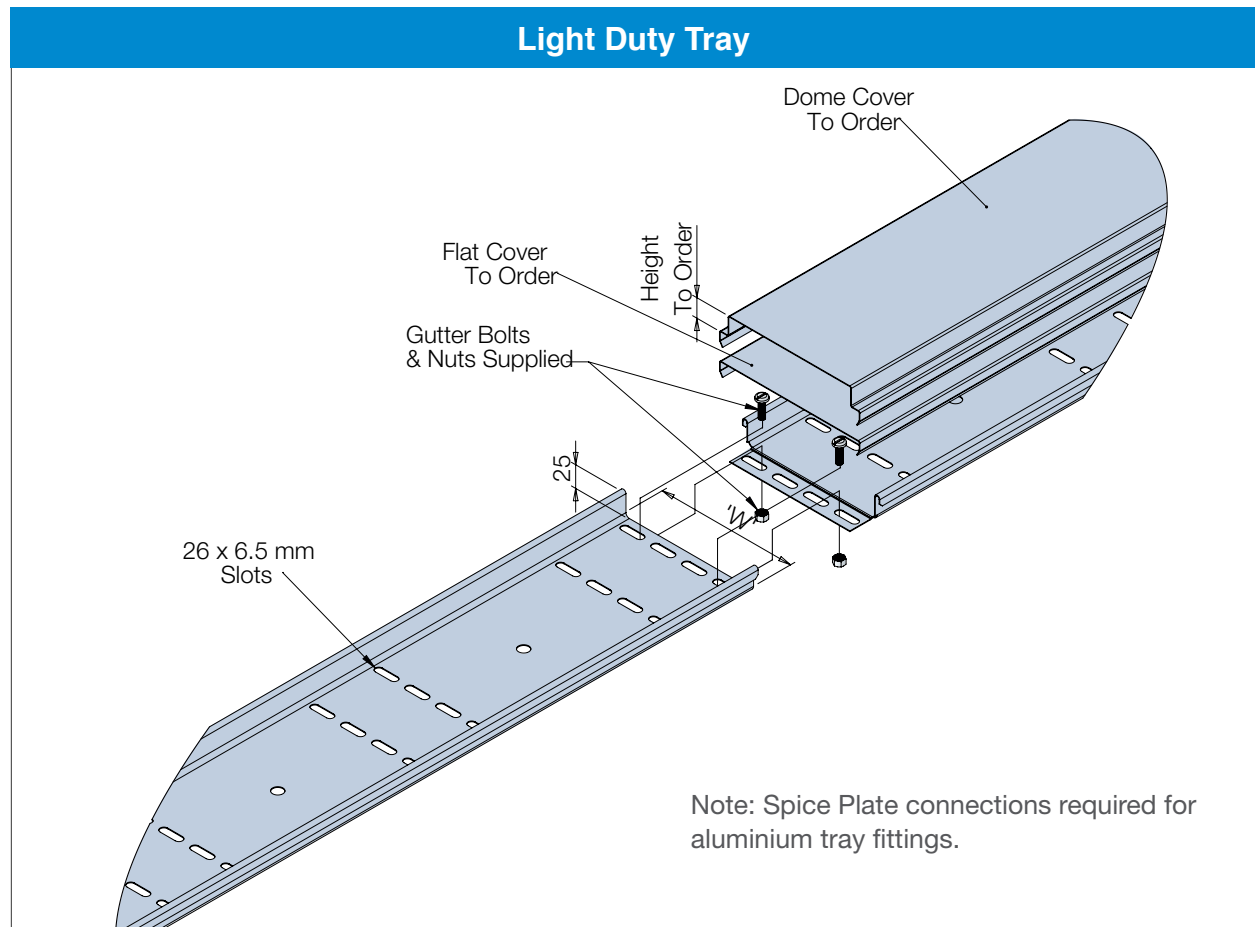
The Kounis Group Light Duty Tray System was developed for use in any application where installers are looking for exceptional load bearing characteristics from a light series tray system.

The finished product is constructed from a variety of material finishes and thicknesses; **Galvabond** 0.8 mm thick up to 300 mm wide and 1.0 mm for 450 and 600, **Hot Dip Galvanised** 0.8 mm thick up to 300 mm wide and 1.0 mm for 450 and 600, **Stainless Steel** 0.9 mm thick all sizes, **Aluminium** 2.0 mm thick all sizes. All of which offer the following standard features and options:

- 2.4 m length
- 25 mm side with rolled lip stiffening
- Self-splicing ends making for cost efficient installation by eliminating the need for additional materials
- Evenly spaced perforated tie off points
- Centre hang option
- A full range of fittings available (**splice plates required**)

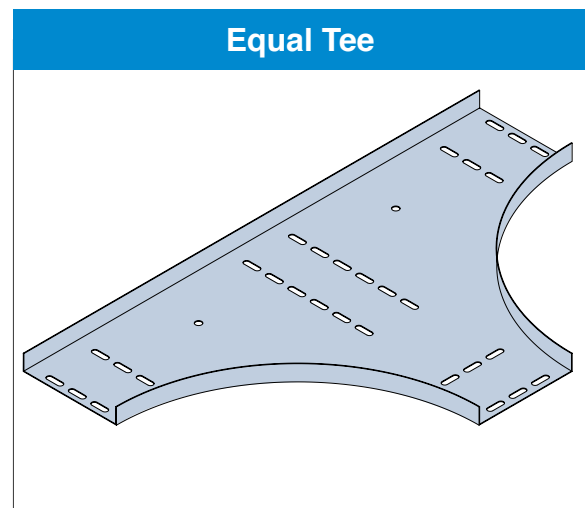
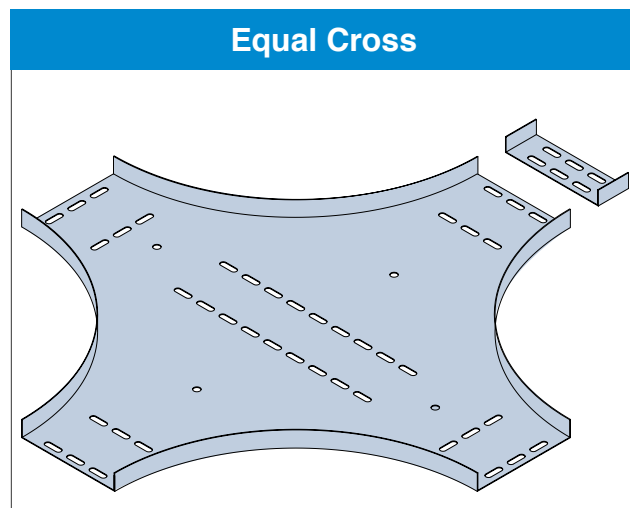
Painted finish and custom fittings available on request

# Light Duty Tray



CABLE TRAY

Light Duty Tray  
& Fittings

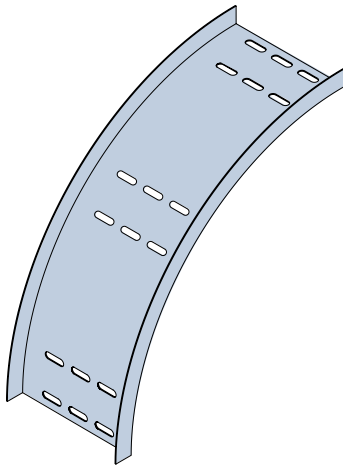
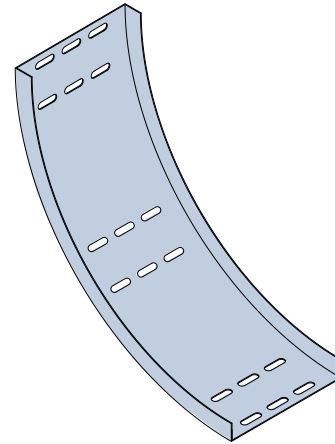
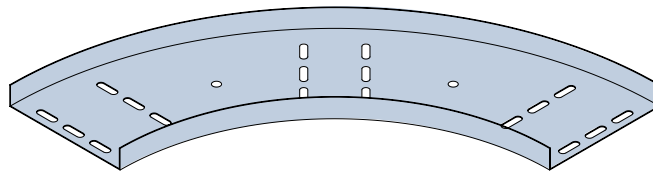
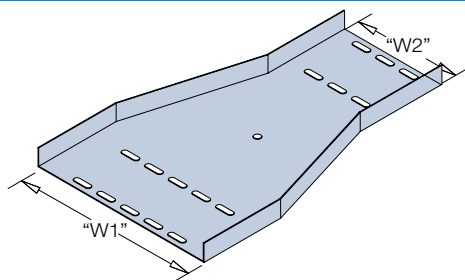
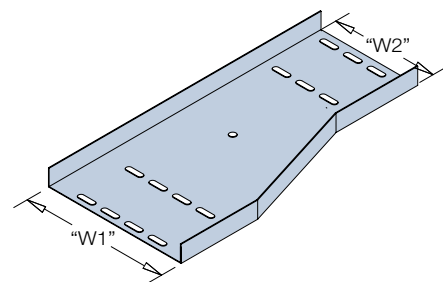


## When Ordering

Range	Type	Wide	Std.Finish	Fastenings	Finish
<b>L</b>	<b>DT</b>	<b>7</b>	<b>G</b>	<b>K</b>	<b>PC-COL</b>
L = Light Duty Cable Tray	DT = Tray T = Tee Equal C = Cross Equal FC = Flat Cover DC = Domed Cover (height made to order) P = Spice Plate	7 = 75 mm 10 = 100 mm 15 = 150 mm 23 = 230 mm 30 = 300 mm 45 = 450 mm 60 = 600 mm	G = Galvabond H = Hot Dip Galvanised A = Aluminium S = Stainless Steel	K = Includes all Splice Plates Bolts and Nuts	PC-COL = Paint Painted Finish to Kounis standard colour range
ORDERING EXAMPLE SHOWN: Light Duty Cable Tray 75 mm wide Galvabond c/w Bolts and Nuts. Painted Finish to specification colour.				NOTE: Unequal Tees and Crosses made to firm order.	

E.&O.E.

## Light Duty Tray

**90° External Riser**

**90° Internal Riser**

**90° & 45° Bend**

**Straight Reducer**

**Offset Reducer Left**


### When Ordering

Range	Type	Wide	Std.Finish	Fastenings	Finish
<b>L</b> L = Light Duty Cable Tray	<b>B</b> B = Bend 90D RX = External Riser 90° RI = Internal Riser 90° SR = Straight Reducer LR = Left Reducer RR = Right Reducer (see notes)	<b>7</b> 7 = 75 mm 10 = 100 mm 15 = 150 mm 23 = 230 mm 30 = 300 mm 45 = 450 mm 60 = 600 mm	<b>G</b> G = Galvabond H = Hot Dip Galvanised A = Aluminium S = Stainless Steel	<b>K</b> K = Includes all Splice Plates Bolts and Nuts	<b>PC-COL</b> PC-COL = Paint Painted Finish to Kounis standard colour range
ORDERING EXAMPLE SHOWN: Light Duty Tray Bend 90° 75 mm wide Galvabond c/w Bolts and Nuts. Painted Finish to specification colour. NOTE: Reducers to show large width first i.e. 300 to 150 (3015).				NOTE: 45° bend/riser option shown after size (eg: 745 code) for alternative.	

E.&amp;O.E.



# CT Heavy Duty Cable Tray

## General Description

The Kounis Group CT Heavy Duty Cable Tray System was developed for use in mining and offshore applications and has been designed for use in demanding locations where additional strength and durability are required due to extreme winds.

The finished product is constructed from 1.6 mm base material of which there are four options; **Mild Steel** with post production **Hot Dip Galvanised** surface treatment, **Galvabond**, 316 Grade **Stainless Steel** and **Aluminium**. All of which offer the following features:

- 2.4 m length
- 40 mm side
- Double folded top flange giving extra load bearing characteristics with no sharp edges
- Perforated tie off points at 40 mm continuous centres running length wise enabling wider cable bandings to be used as well as offering superior ventilation
- A full range of fabricated fittings to suit
- Heavy duty covers can be supplied complete with clamp rod fixing brackets

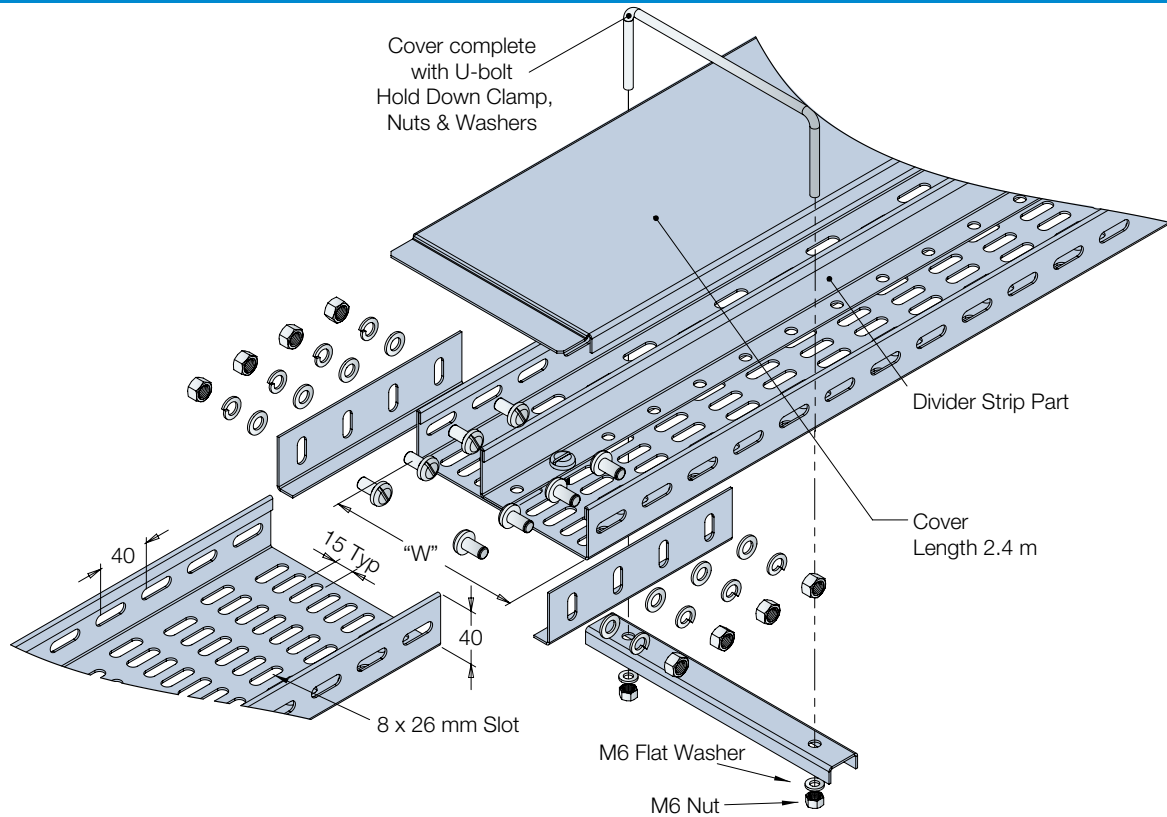
Custom sizes and painted finish available on request.

# CT Heavy Duty Cable Tray

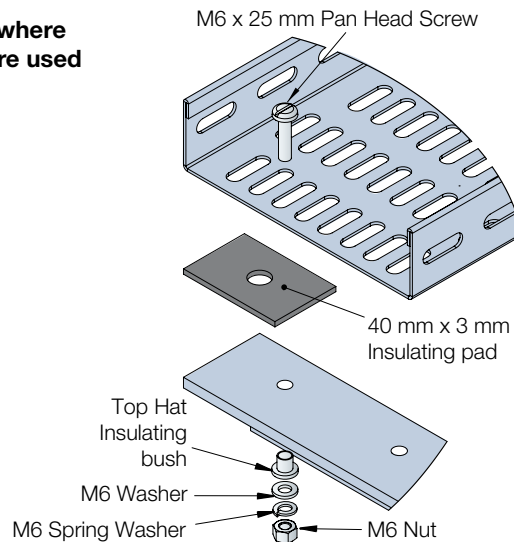
CABLE TRAY

CT Heavy Duty Cable Tray

## CT Cable Tray



### Fixing and insulation where dissimilar materials are used



## When Ordering

Range	Type	Wide	Std.Finish	Fastenings	Finish
<b>CT</b>	<b>T</b>	<b>7</b>	<b>G</b>	<b>K</b>	<b>PC-COL</b>
CT = Heavy Duty Cable Tray	T = Tray FC = Flat Cover ST = Slotted Divider P = Splice Plate SPAD = Insulating Pad SBUSH = Insulating Bush S-BOLT = M6 P/Hd screw	7 = 75 mm 10 = 100 mm 15 = 150 mm 23 = 230 mm 30 = 300 mm 45 = 450 mm 60 = 600 mm	G = Galvabond H = Hot Dip Galvanised A = Aluminium S = Stainless Steel	K = Includes all Splice Plates Bolts and Nuts	PC-COL = Paint Painted Finish to Kounis standard colour range
ORDERING EXAMPLE SHOWN: CT Heavy Duty Tray 75 mm wide Galvabond c/w splice plates, Bolts and Nuts. Painted finish to specification colour.					

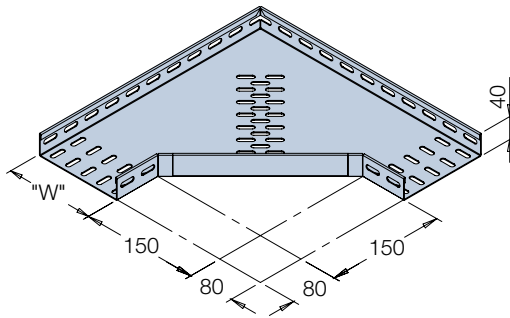
E.&O.E.

# CT Heavy Duty Cable Tray Fittings

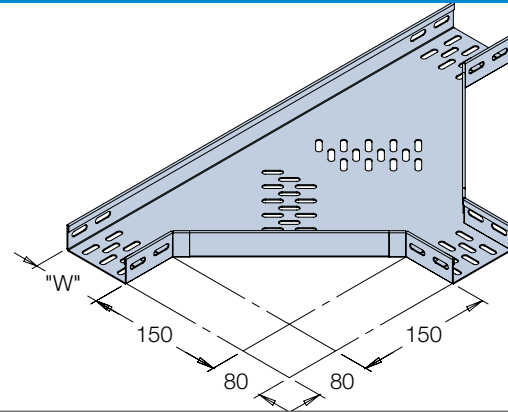
CABLE TRAY

CT Heavy Duty Cable Tray Fittings

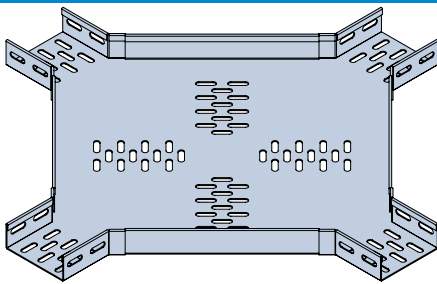
90° Bend



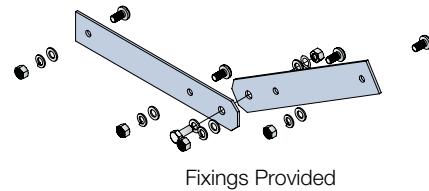
Equal Tee



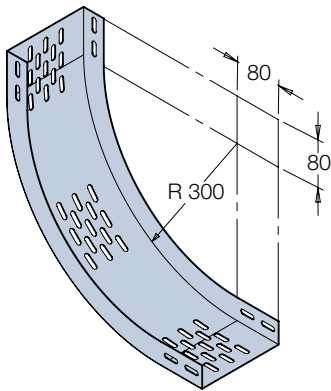
Equal Cross



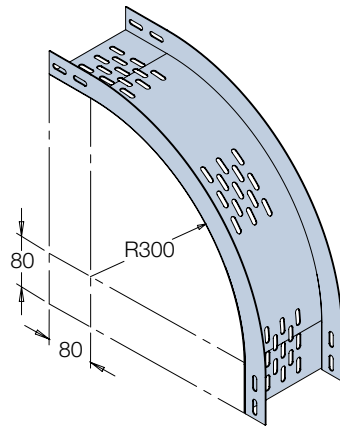
Vertical Hinged Splice Plate



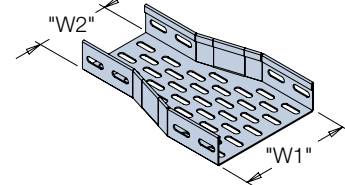
90° Internal Riser



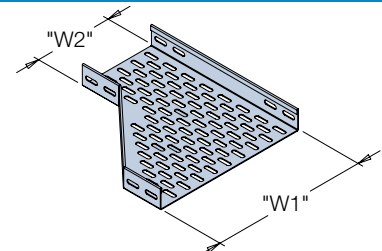
90° External Riser



Straight Reducer



Offset Reducer



## When Ordering

Range	Type	Wide	Std.Finish	Fastenings	Finish
<b>CT</b> CT = Heavy Duty Cable Tray	<b>B</b> B = Bend 90° TT = Tee Equal C = Cross Equal VP = Vertical Hinge Splice RI = Internal Riser 90° SR = Straight Reducer LR = Left Reducer RR = Right Reducer (see notes)	<b>7</b> 7 = 75 mm 10 = 100 mm 15 = 150 mm 23 = 230 mm 30 = 300 mm 45 = 450 mm 60 = 600 mm	<b>G</b> G = Galvabond H = Hot Dip Galvanised A = Aluminium S = Stainless Steel	<b>K</b> K = Includes all Splice Plates Bolts and Nuts	<b>PC-COL</b> PC-COL = Paint Painted Finish to Kounis standard colour range
ORDERING EXAMPLE SHOWN: CT Heavy Duty Tray 90° Bend 75mm wide Galvabond c/w Splice Plates Bolts and Nuts. Painted Finish to specification colour. NOTE: Reducers to show large width first i.e. 300 to 150 (3015).				NOTE: 45° bend/riser option shown after size (eg: 745 code) for alternative.	

E.&O.E.

# Ladder Tray

## General Description

The Kounis Ladder Tray System was developed for use in commercial and industrial applications where the installer demands a cost efficient site adaptable cable management system. One that can offer enough strength and durability to carry light to heavier duty cabling whilst maintaining an economical support span to minimise support steelwork costs.

## Material and Finish

The finished product is constructed from 0.75 mm thick base material with finish options of:

1. Stock Galvabond for internal use.
2. Mild Steel with a post-production Hot Dip Galvanised finish for external use or to suit some demanding internal conditions.

## Tray Loading Capacity Options

There are three Kounis Ladder tray options to suit your particular project. Starting from our KT2 which has its own individual base pattern and lower side profile, so giving a versatile tray to suit tight installation areas. The KT3 and KT5 both have identical base patterns but increased tray depths give increased loading capacity. For details of all loading and deflections please refer to our catalogue graphs.

System options are:

**KT2 Ladder Tray System** - 45mm high sided tray 40 mm usable depth. Light Duty

**KT3 Ladder Tray System** - 50mm high sided tray 45 mm usable depth. Medium Duty

**KT5 Ladder Tray System** - 85mm high sided tray 80 mm usable depth. Heavy Duty

## Tray Features and Options

All of the trays feature the following features or options:

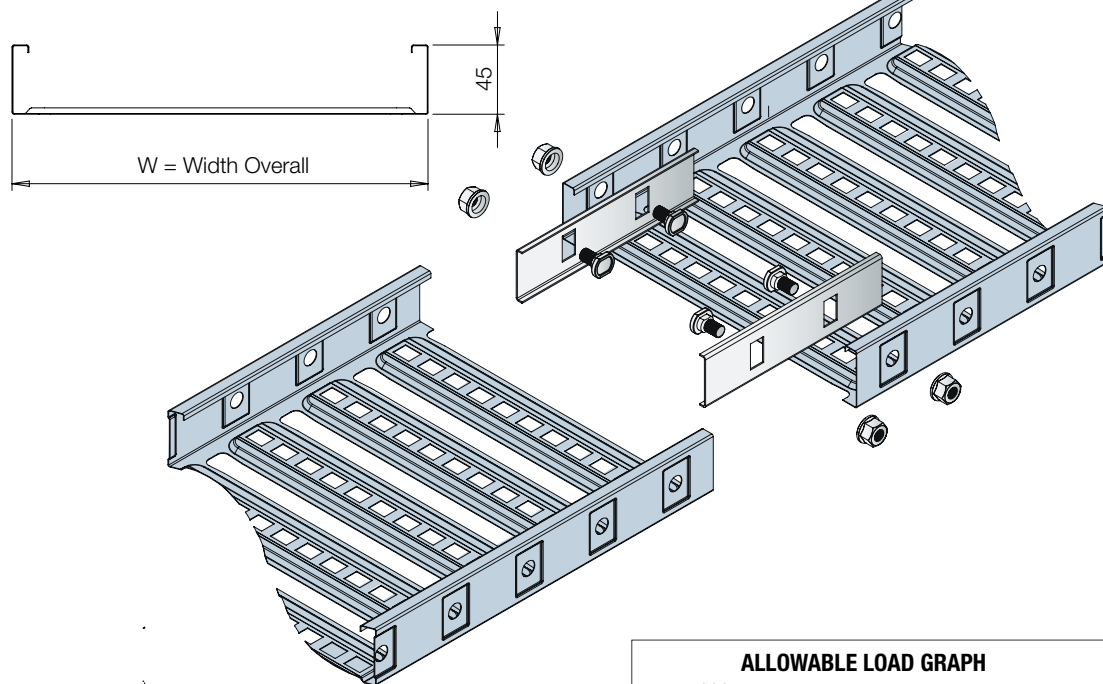
- 3m lengths.
- Kit parts and fixings to give site fabricated direction changes, junctions or size changes.
- Perforated tie off points at 20mm continuous centres enabling maximum use of the tray width as well as offering superior ventilation.
- Drain holes to aid the dissipation of moisture in external applications.
- Straight Flat or Peak Type covers to suit.
- Barrier Strip for multiple service segregation available.
- A full range of pre-fabricated light or heavy trapeze supports.
- Powder coat finish to suit clients specified colour or to Kounis standard colour range.

### Kounis Group Standard Colour Range

Optional Polyester Powder Coat finishes can be provided from our standard stock colours. Our range is White, Black, Orange and Grey Hammertone. Other colours or epoxy powder coat finish can be provided to firm orders.

# KT2 Ladder Tray Light Duty

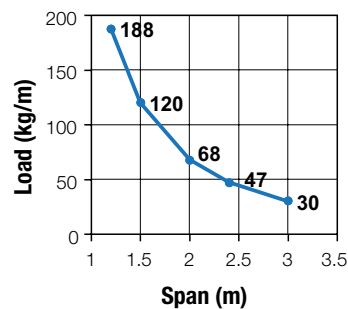
## KT2 Ladder Tray Light Duty



### Specification

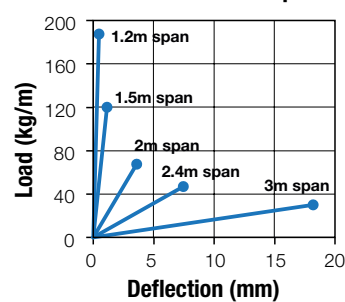
<b>Class Designation:</b>	Cable ladder tray Light Duty Type KT2
<b>Material:</b>	Steel sheet.
<b>Finish:</b>	Standard Galvabond other finishes to firm orders.
<b>Side Depth:</b>	45 mm high sided tray.
<b>Stock Length:</b>	3000 mm standard, joining together by a pair of bolt on splice plates supplied separately.
<b>Stock Widths:</b>	150 mm, 300 mm, 450 mm & 600 mm standard widths.
<b>Fittings:</b>	A full range of ancillaries are available to site manufacture fittings e.g. bend, risers, tees, crosses & reducers.
<b>Radius:</b>	Formed on site to suit requirements with a minimum 300 mm radius.
<b>Accessories:</b>	Flat or peak covers available for trays lengths, Barrier strips and support brackets.

**ALLOWABLE LOAD GRAPH**



Allowable loads are determined generally in accordance with NEMA requirements and verified by testing. Safety factor = 1.5 over collapse load for single span.

**DEFLECTION Graph**



Deflections shown apply to single spans. Deflections for the end span of a continuous run will be significantly less (up to half of the above values depending on actual loading).

### When Ordering

Range	Type	Wide	Std.Finish	Fastenings	Finish
<b>KT</b> KT = Ladder Tray	<b>2</b> 2 = 45 mm High Side Light Duty	<b>15</b> 15 = 150 mm 30 = 300 mm 45 = 450 mm 60 = 600 mm	<b>G</b> G = Galvanised H = Hot Dip Galvanised	<b>K</b> K = includes all Splice Plates, Bolts and Nuts  Standard Zinc Plate or Galvanised	<b>PC-COL</b> PC-COL = paint Painted finish to Kounis standard colour range

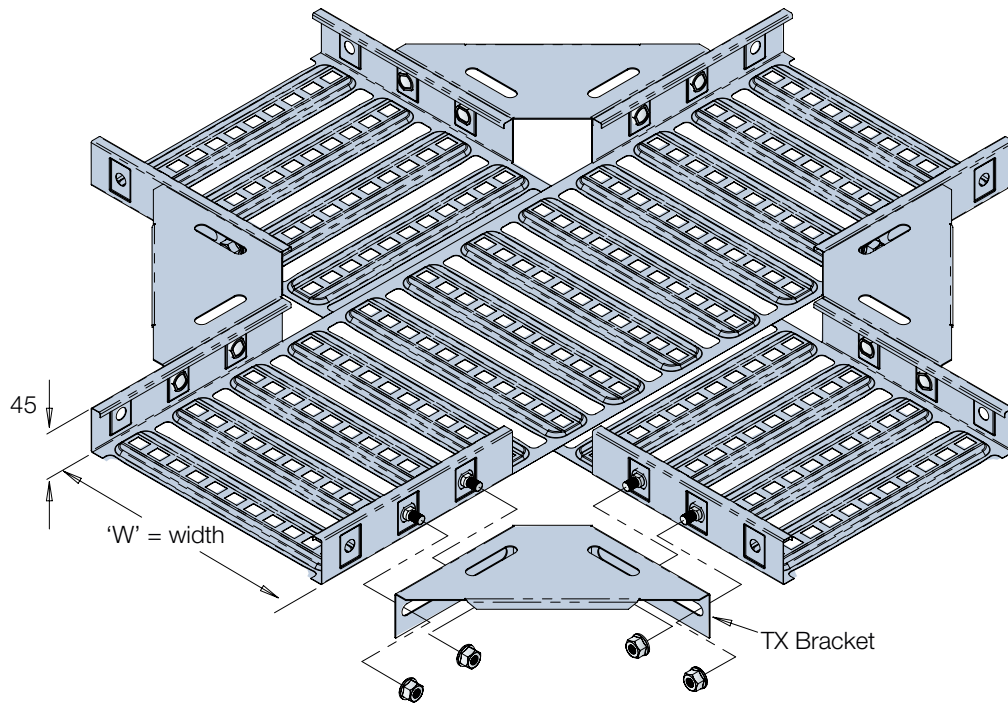
ORDERING EXAMPLE SHOWN: Ladder Tray KT2 Light Duty 45 mm high 150 mm wide Galvabond c/w Splice plates, Bolts and Nuts. Painted Finish to specification colour.

# KT2 Ladder Tray Light Duty Assembly Instructions

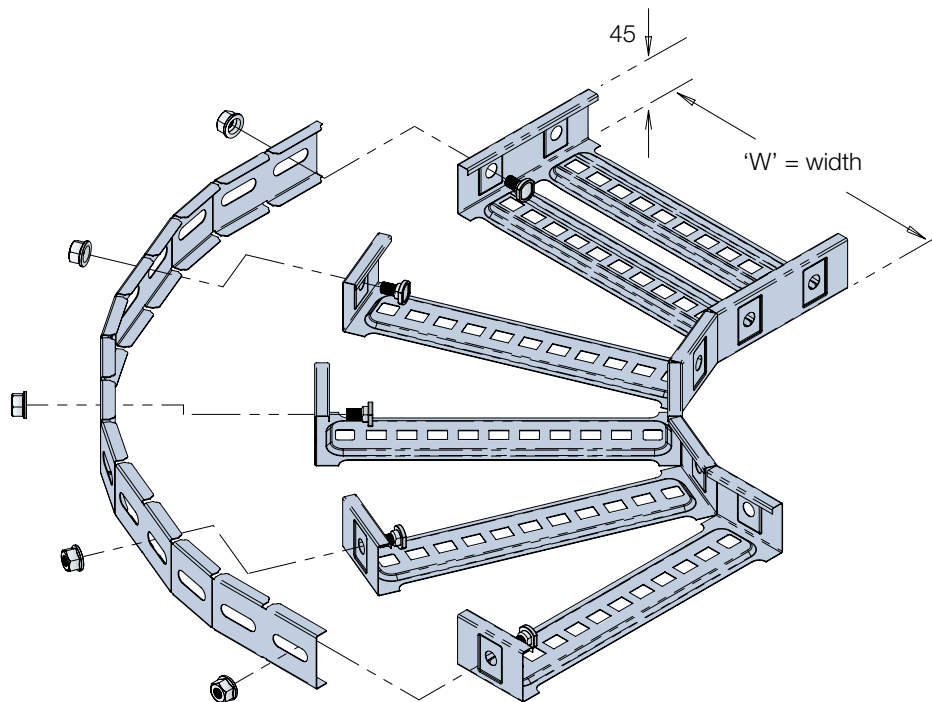
CABLE TRAY

KT2 Ladder Tray  
Bend & Cross Assembly

## Cross



## Bend

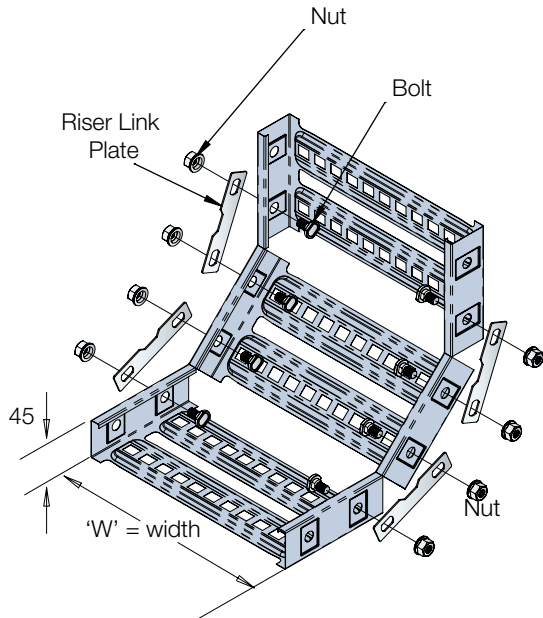


E.&O.E.

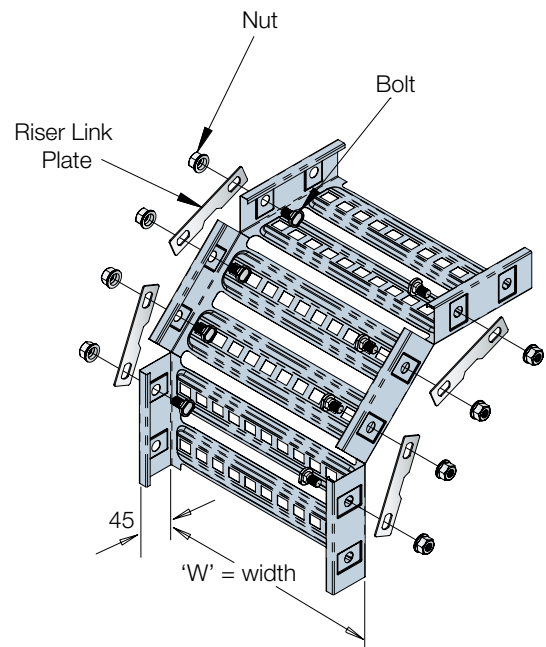


# KT2 Ladder Tray Light Duty Assembly Instructions

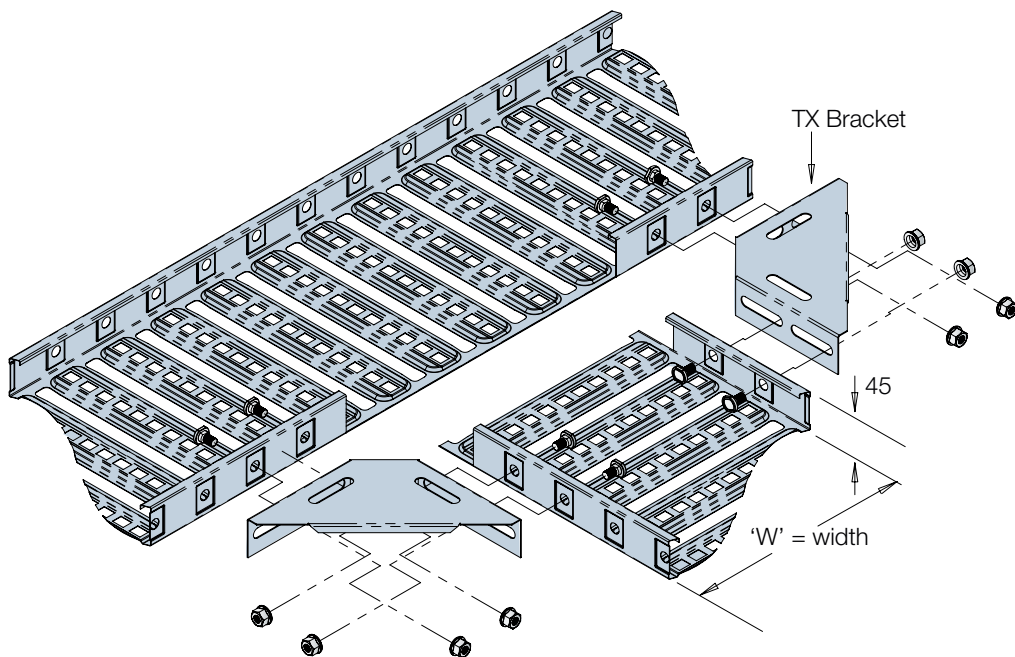
## Internal Riser



## External Riser



## Tee



E.&O.E.

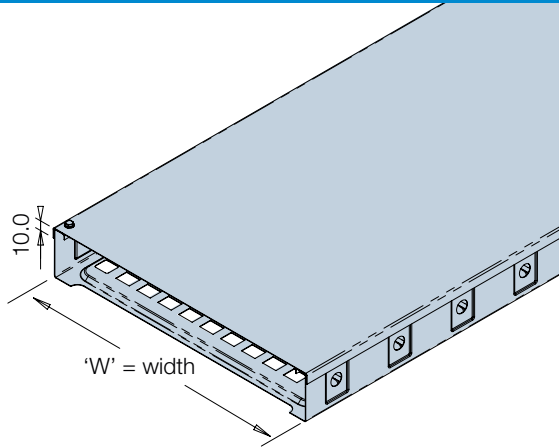


## KT2 Ladder Tray Covers and Trapeze Supports

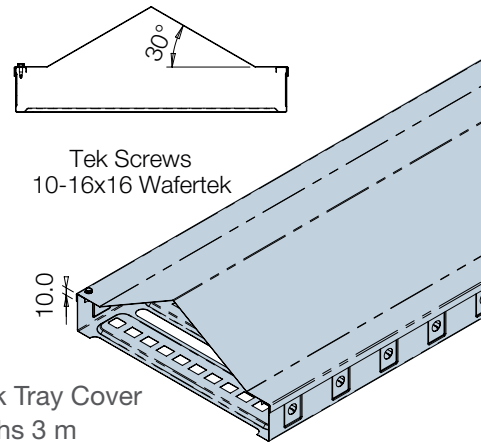
CABLE TRAY

KT2 Ladder Tray  
Covers/Trapeze Supports

### Flat Cover for KT2 Tray



### Peak Cover for KT2 Tray

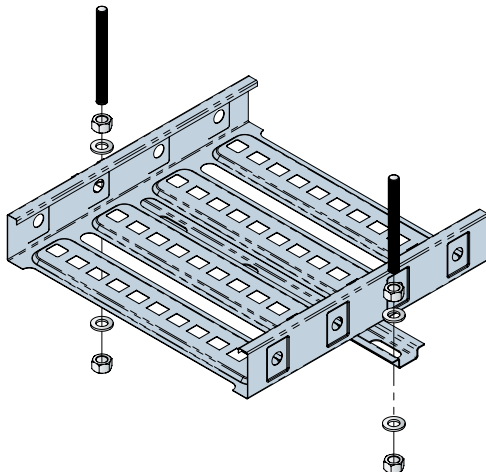


### When Ordering

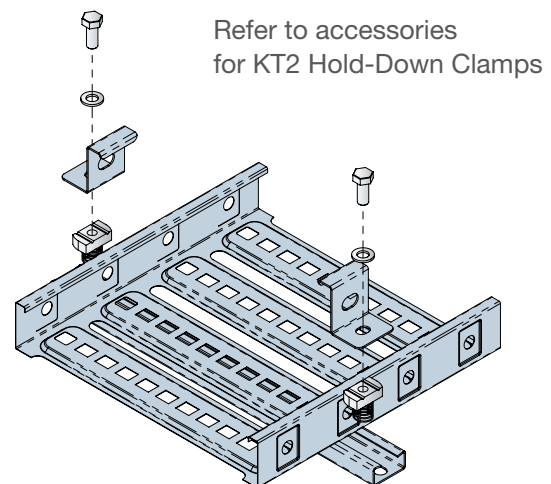
Range	Type	Wide	Std.Finish	Fastening	Finish
<b>KT2</b> KT2 = KT2 Ladder Tray	<b>FC</b> FC = Flat Cover PC = Peak Cover	<b>15</b> 15 = 150 mm 30 = 300 mm 45 = 450 mm 60 = 600 mm	<b>G</b> G = Galvabond Thk.0.75 mm H = Hot Dip Galvanised Thk. 1.0 mm 150-300W Thk. 1.2 mm 450-600W	Tek Screw fixings can be supplied separately	<b>PC-COL</b> PC-COL = Paint Painted finish to Kounis standard colour range

ORDERING EXAMPLE SHOWN: Ladder Tray KT2 Flat Cover 150 mm wide Galvabond Painted finish  
Painted Finish to specification colour.

### Light Duty Trapeze Support



### Heavy Duty Trapeze Support



### When Ordering

Range	Type	Wide	Finish
<b>K</b> K = Ladder Tray Brackets	<b>LTS</b> LTS = Light Duty Supports HTS = Heavy Duty Supports	<b>15</b> 15 = 150 mm 30 = 300 mm 45 = 450 mm 60 = 600 mm	<b>G</b> G = Galvabond H = Hot Dip Galvanised Z = Zinc Plated

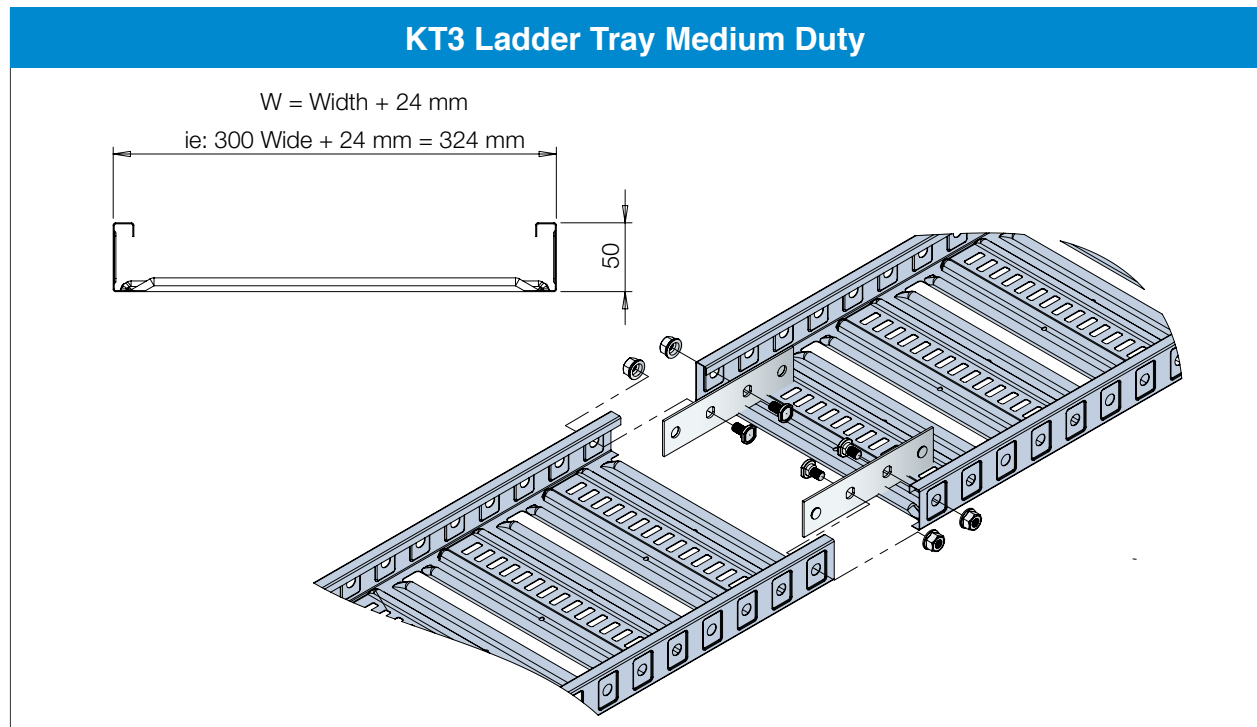
NOTE:  
Recommended for  
KT2 Ladder Tray

ORDERING EXAMPLE SHOWN: Ladder Tray Light Duty Support 150 mm wide  
Galvabond finish.

Note: Recommended M10 hanger drop rods and fastenings. Please refer to our K-Strut and fixings section for a full range to suit your particular installation.

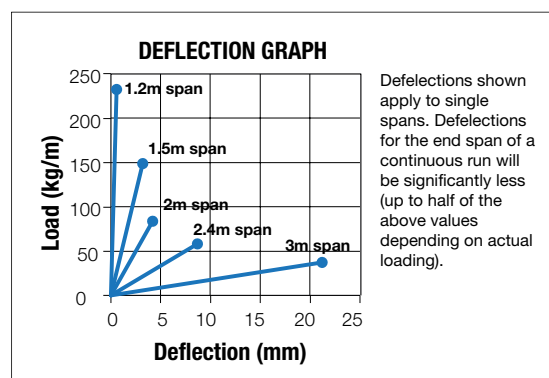
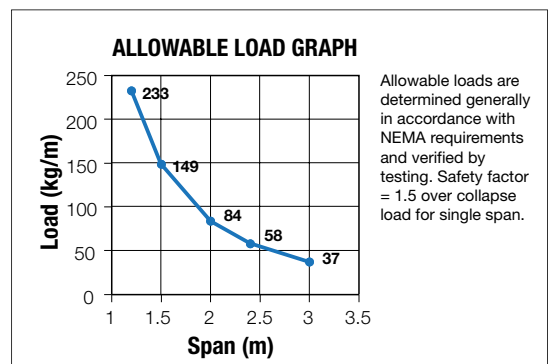
E.&O.E.

# KT3 Ladder Tray Medium Duty



## Specification

<b>Class Designation:</b>	Cable ladder tray Medium Duty Type KT3
<b>Material:</b>	Steel sheet.
<b>Finish:</b>	Standard Galvabond other finishes to firm orders.
<b>Side Depth:</b>	50 mm high sided tray.
<b>Stock Length:</b>	3000 mm standard, joining together by a pair of bolt on splice plates supplied separately.
<b>Stock Widths:</b>	150 mm, 300 mm, 450 mm & 600 mm standard widths.
<b>Fittings:</b>	A full range of ancillaries are available to site manufacture fittings e.g. bend, risers, tees, crosses & reducers.
<b>Radius:</b>	Formed on site to suit requirements with a minimum 300 mm radius.
<b>Accessories:</b>	Flat or peak covers available for trays lengths, Barrier strips and support brackets.



## When Ordering

Range	Type	Wide	Std.Finish	Fastenings	Finish
<b>KT</b> KT = Ladder Tray	<b>3</b> 3 = 50 mm High Side Medium Duty	<b>15</b> 15 = 150 mm 30 = 300 mm 45 = 450 mm 60 = 600 mm	<b>G</b> G = Galvanised H = Hot Dip Galvanised	<b>K</b> K = includes all Splice Plates, Bolts and Nuts  Standard Zinc Plate or Galvanised	<b>PC-COL</b> PC-COL = paint Painted finish to Kounis standard colour range

ORDERING EXAMPLE SHOWN: Ladder Tray KT3 Medium Duty 50 mm high 150 mm wide Galvabond c/w Splice plates, Bolts and Nuts  
Painted Finish to specification colour.

E.&O.E.

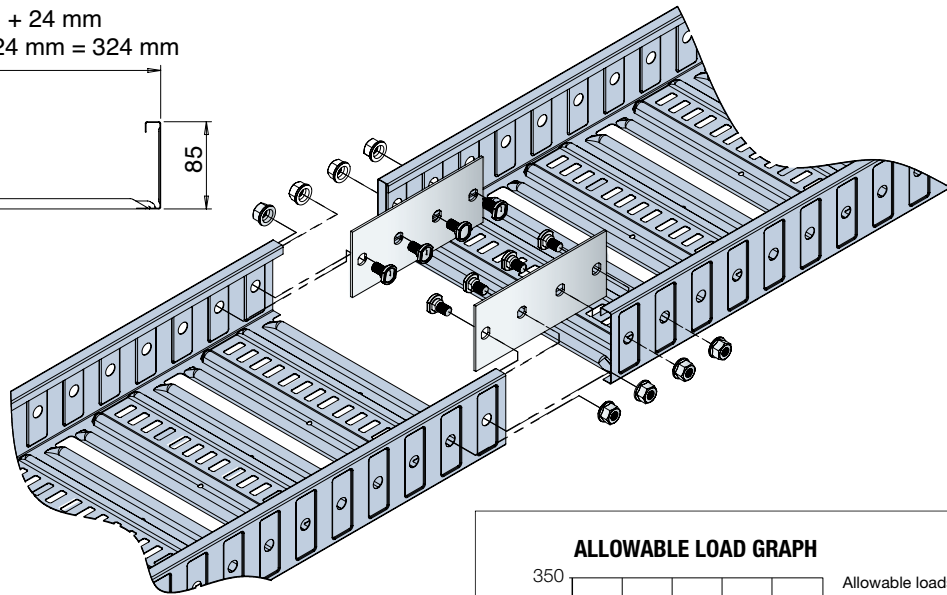
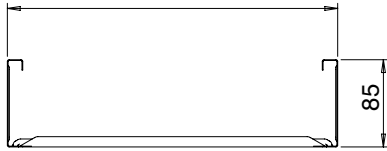
# KT5 Ladder Tray Heavy Duty

CABLE TRAY

KT5 Ladder Tray

## KT5 Ladder Tray Heavy Duty

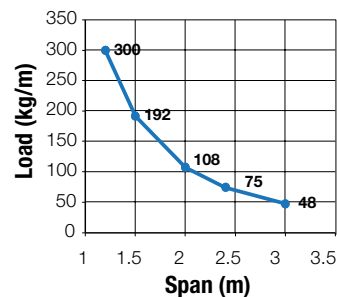
W = Width + 24 mm  
ie: 300 Wide + 24 mm = 324 mm



## Specification

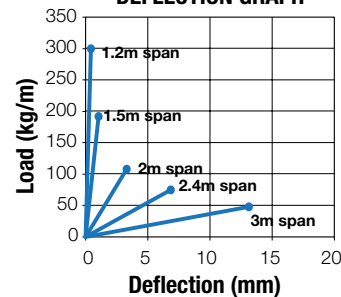
<b>Class Designation:</b>	Cable ladder tray Heavy Duty Type KT5
<b>Material:</b>	Steel sheet.
<b>Finish:</b>	Standard Galvabond other finishes to firm orders.
<b>Side Depth:</b>	85 mm high sided tray.
<b>Stock Length:</b>	3000 mm standard, joining together by a pair of bolt on splice plates supplied separately.
<b>Stock Widths:</b>	150 mm, 300 mm, 450 mm & 600 mm standard widths.
<b>Fittings:</b>	A full range of ancillaries are available to site manufacture fittings e.g. bend, risers, tees, crosses & reducers.
<b>Radius:</b>	Formed on site to suit requirements with a minimum 300 mm radius.
<b>Accessories:</b>	Flat or peak covers available for trays lengths, Barrier strips and support brackets.

### ALLOWABLE LOAD GRAPH



Allowable loads are determined generally in accordance with NEMA requirements and verified by testing. Safety factor = 1.5 over collapse load for single span.

### DEFLECTION GRAPH



Deflections shown apply to single spans. Deflections for the end span of a continuous run will be significantly less (up to half of the above values depending on actual loading).

## When Ordering

Range	Type	Wide	Std. Finish	Fastenings	Finish
<b>KT</b> KT = Ladder Tray	<b>5</b> 5 = 85 mm High Side Heavy Duty	<b>15</b> 15 = 150 mm 30 = 300 mm 45 = 450 mm 60 = 600 mm	<b>G</b> G = Galvabond H = Hot Dip Galvanised	<b>K</b> K = Includes all Splice Plates, Bolts and nuts  Standard Zinc Plate or Galvanised	<b>PC-COL</b> PC-COL = Paint Painted finish to Kounis standard colour range

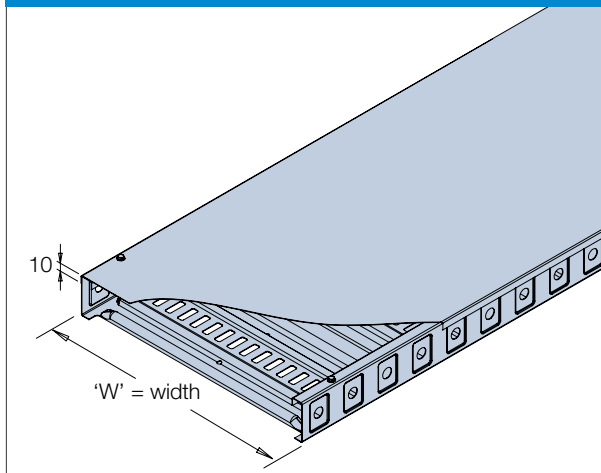
ORDERING EXAMPLE SHOWN: Ladder Tray KT5 Heavy Duty 85 mm high 150 mm wide Galvabond c/w Splice plates, Bolts and Nuts Painted Finish to specification colour.

# KT3 and KT5 Ladder Tray Covers and Trapeze Supports

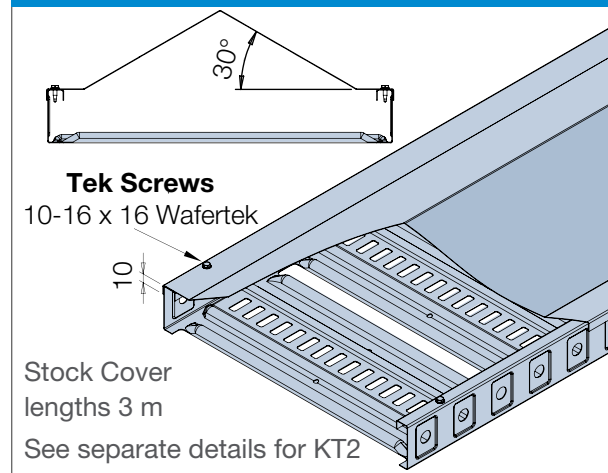
CABLE TRAY

Ladder Tray  
Covers/Trapeze Supports

## Flat Cover for KT3 & KT5 Tray



## Peak Cover for KT3 & KT5 Tray

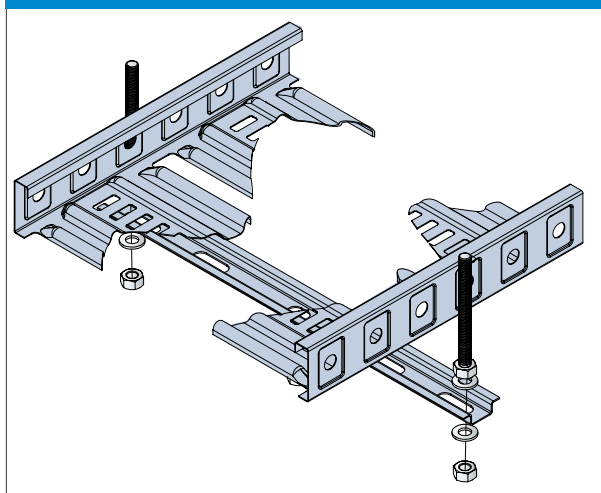


## When Ordering

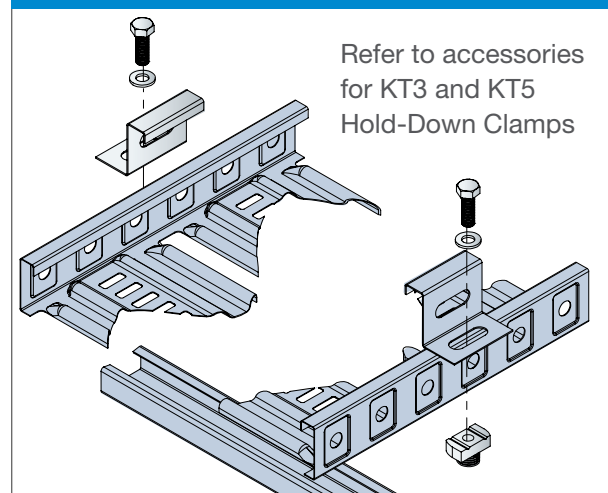
Range	Type	Wide	Std.Finish	Fastening	Finish
<b>KT</b>	<b>FC</b>	<b>15</b>	<b>G</b>		<b>PC-COL</b>
KT = Ladder Tray	FC = Flat Cover PC = Peak Cover	15 = 150 mm 30 = 300 mm 45 = 450 mm 60 = 600 mm	G = Galvabond Thk.0.75 mm H = Hot Dip Galvanised Thk. 1.0 mm 150-300W Thk. 1.2 mm 450-600W	Tek Screw fixings can be supplied separately	PC-COL = Paint Painted finish to Kounis standard colour range

ORDERING EXAMPLE SHOWN: Ladder Tray Flat Cover 150mm wide Galvabond finish. Painted Finish to specification colour

## Light Duty Trapeze Support



## Heavy Duty Trapeze Support



## When Ordering

Range	Type	Wide	Finish
<b>K</b>	<b>LTS</b>	<b>15</b>	<b>G</b>
K = Ladder Tray Brackets	LTS = Light Duty Supports HTS = Heavy Duty Supports	15 = 150 mm 30 = 300 mm 45 = 450 mm 60 = 600 mm	G = Galvabond H = Hot Dip Galvanised Z = Zinc Plated

NOTE:  
Recommended both KT3 and KT5

ORDERING EXAMPLE SHOWN: Ladder Tray Light Duty Support 150 mm wide Galvabond finish.

Note: Recommended M10 hanger drop rods and fastenings. Please refer to our K-Strut and fixings section for a full range to suit your particular installation.

## QTY. OF BENDS FROM 3 m LENGTH RADIUS PLATE

WIDTH	BEND 90°
150 mm	4 per Length
300 mm	3 per Length
450 mm	2 per Length
600 mm	2 per Length

## QTY. OF FITTINGS FROM 3 m TRAY LENGTH

WIDTH	BEND 90°	RISER 90°	TEES
150 mm	5	5	4
300 mm	5	5	3
450 mm	5	5	2
600 mm	5	5	2

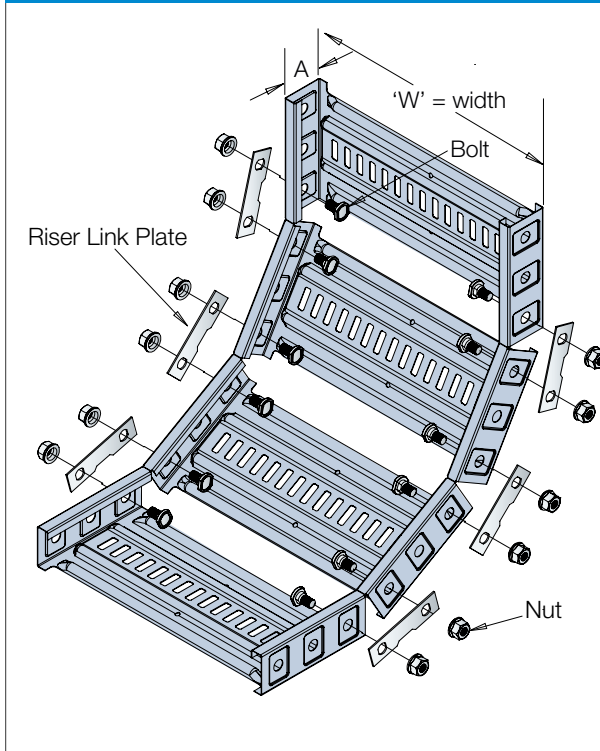
E.&amp;O.E.

# Ladder Tray Assembly Instructions

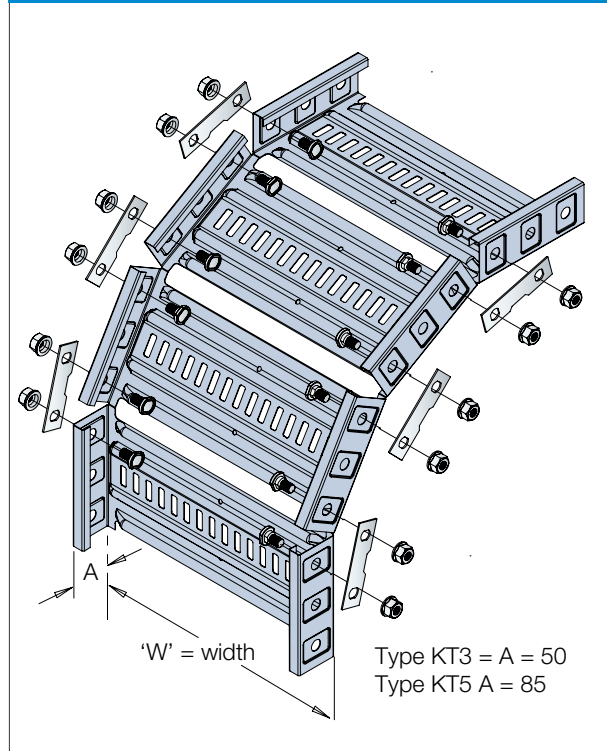
CABLE TRAY

KT3 & KT5 Riser & Tee Assembly

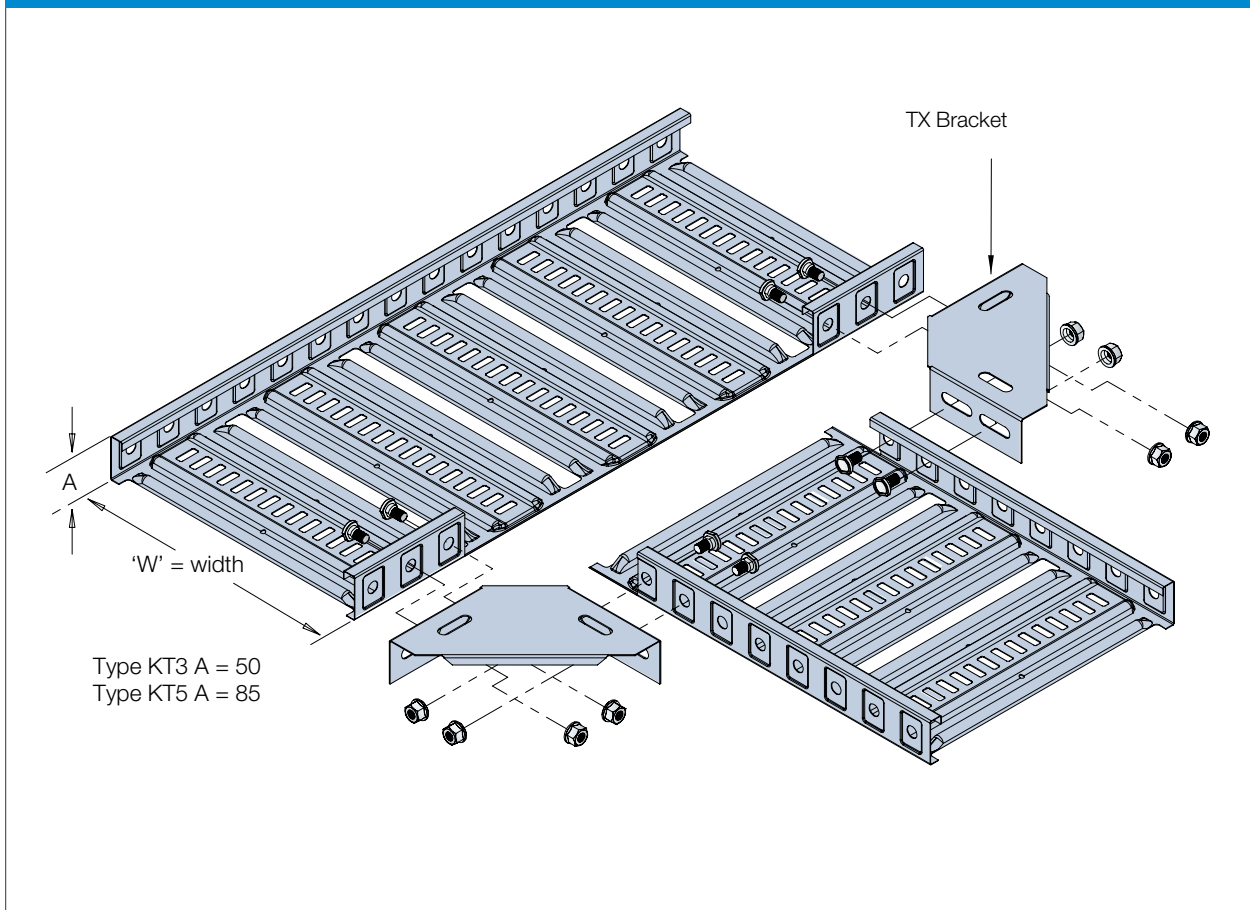
## Internal Riser



## External Riser



## Tee



E.&O.E.

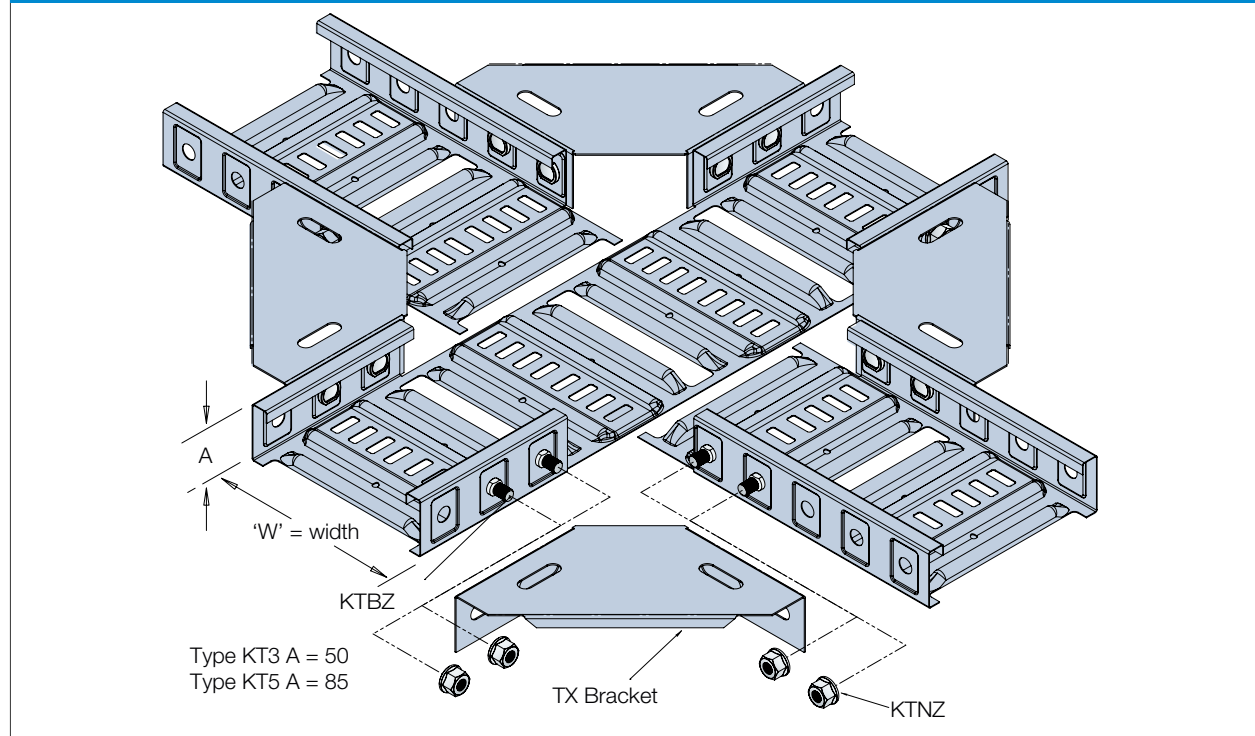


# Ladder Tray Assembly Instructions

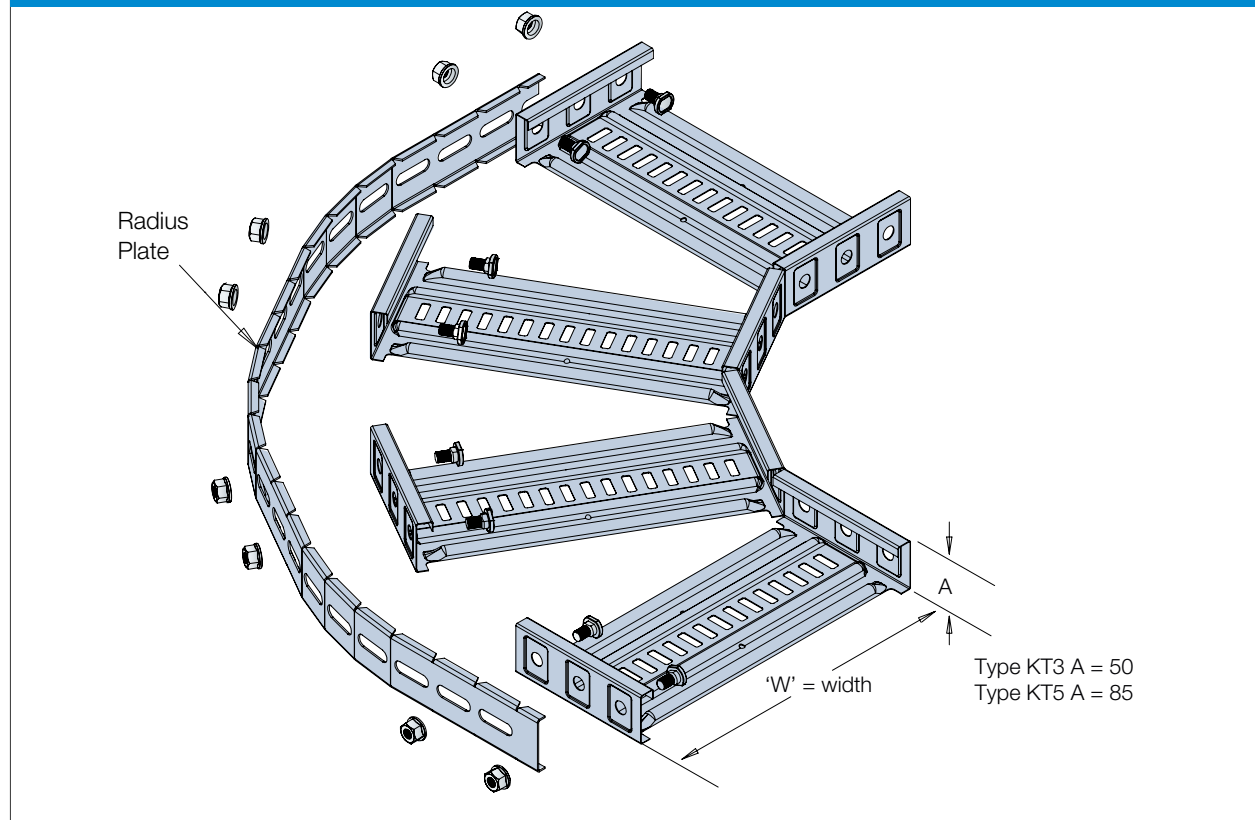
CABLE TRAY

KT3 & KT5 Bend  
& Cross Assembly

## Cross



## Bend

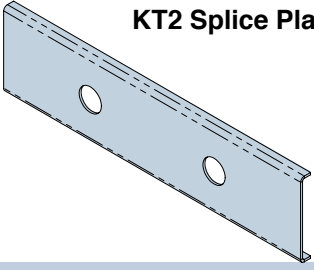
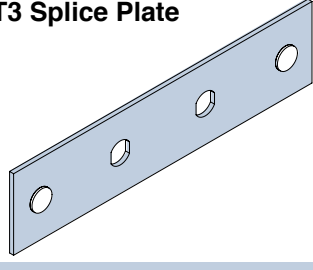
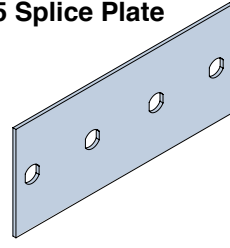
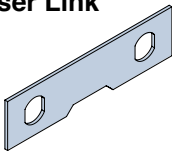
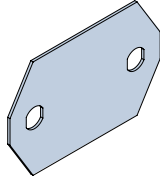
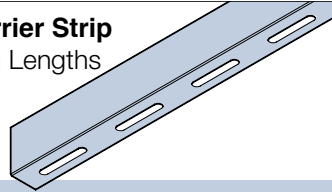
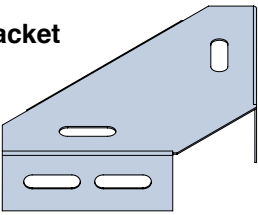
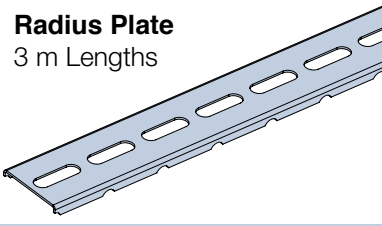
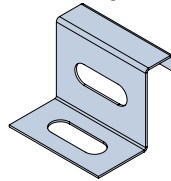

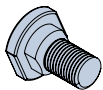


NOTE: KT3 and KT5 plates and brackets are not interchangeable.

E.&O.E.

## Ladder Tray Accessories

### Ladder Tray Accessories

 <p><b>KT2 Splice Plate</b></p> <p>CODE: KT2SP</p>	 <p><b>KT3 Splice Plate</b></p> <p>CODE: KT3SP</p>	 <p><b>KT5 Splice Plate</b></p> <p>CODE: KT5SP</p>
 <p><b>KT2 Riser Link</b> <b>KT3 Riser Link</b></p> <p>CODE: KT2LP CODE: KT3LP</p>	 <p><b>KT5 Riser Link</b></p> <p>CODE: KT5LP</p>	 <p><b>Barrier Strip</b> 3 m Lengths</p> <p>CODE: KT2BS CODE: KT3BS CODE: KT5BS</p>
 <p><b>TX Bracket</b></p> <p>CODE: KT2TX CODE: KT3TX CODE: KT5TX</p>	 <p><b>Radius Plate</b> 3 m Lengths</p> <p>CODE: KT2RP CODE: KT3RP CODE: KT5RP</p>	 <p><b>Hold Down Clamp</b></p> <p>CODE: KT2HDC CODE: KT3HDC CODE: KT5HDC</p>
 <p><b>Tray Whizz Nut</b></p> <p>CODE: KTN</p>	 <p><b>Tray Bolt</b></p> <p>CODE: KTB</p>	

### When Ordering

Range	Type	Accessories	Std.Finish	Fastenings	Finish
<b>KT</b> KT = Ladder Tray	<b>2</b> 2 = 45 mm High Side Light Duty 3 = 50 mm High Side Medium Duty 5 = 85 mm High Side Heavy Duty	<b>SP</b> SP = Splice Plate HDC = Hold Down Clamp LP = Link Plate BS = Barrier Strip TX = Tee/Cross Bracket RP = Radius Plate B = Tray Bolt N = Tray Nut	<b>G</b> G = Galvabond H = Hot Dip Galvanised Z = Zinc Plated	NOTE: Tray Bolt and Tray Nuts are supplied separately Standard Zinc Plate or Galvanised	<b>PC-COL</b> PC-COL = Paint Painted Finish to Kounis standard colour range

ORDERING EXAMPLE SHOWN: Ladder Tray KT2 Light Duty 45 mm high Splice Plates Galvabond Painted Finish to specification colour.

# Cable Mesh

## General Description

The Kounis Group Cable Mesh System was developed for use in commercial and industrial applications where the installer demands a cost efficient site adaptable cable management system that can offer enough strength and durability to carry light to medium duty cables whilst maintaining an economical support span.

The finished product is constructed from 3.8 mm wire of which there are two finish options; **Zinc Plated** and **Hot Dip Galvanised**. System options are

**KM54 Cable Mesh System** – 54 mm high sided tray

**KT105 Cable Mesh System** – 104 mm high sided tray

All of which offer the following features or options:

- 3 m length
- Site fabricated fittings for all required direction, junction or size changes
- Mesh tie off spacing at 50 mm W x 100 mm L making cable tracing and identification easy whilst enabling cable entry exit at any point
- Indented top lip wire making an all smooth edge system to ensure no damage is made to the cable when they are being installed
- Mesh spacing allows exceptional ventilation and minimises the likelihood of vermin infestation
- Tab loc joining system makes the install easy whilst eliminating the need for multiple tools
- Tab loc trapeze system eliminates the need for additional accessories making for a cost efficient install

Painted finish available on request.

### Kounis Group Standard Colour Range

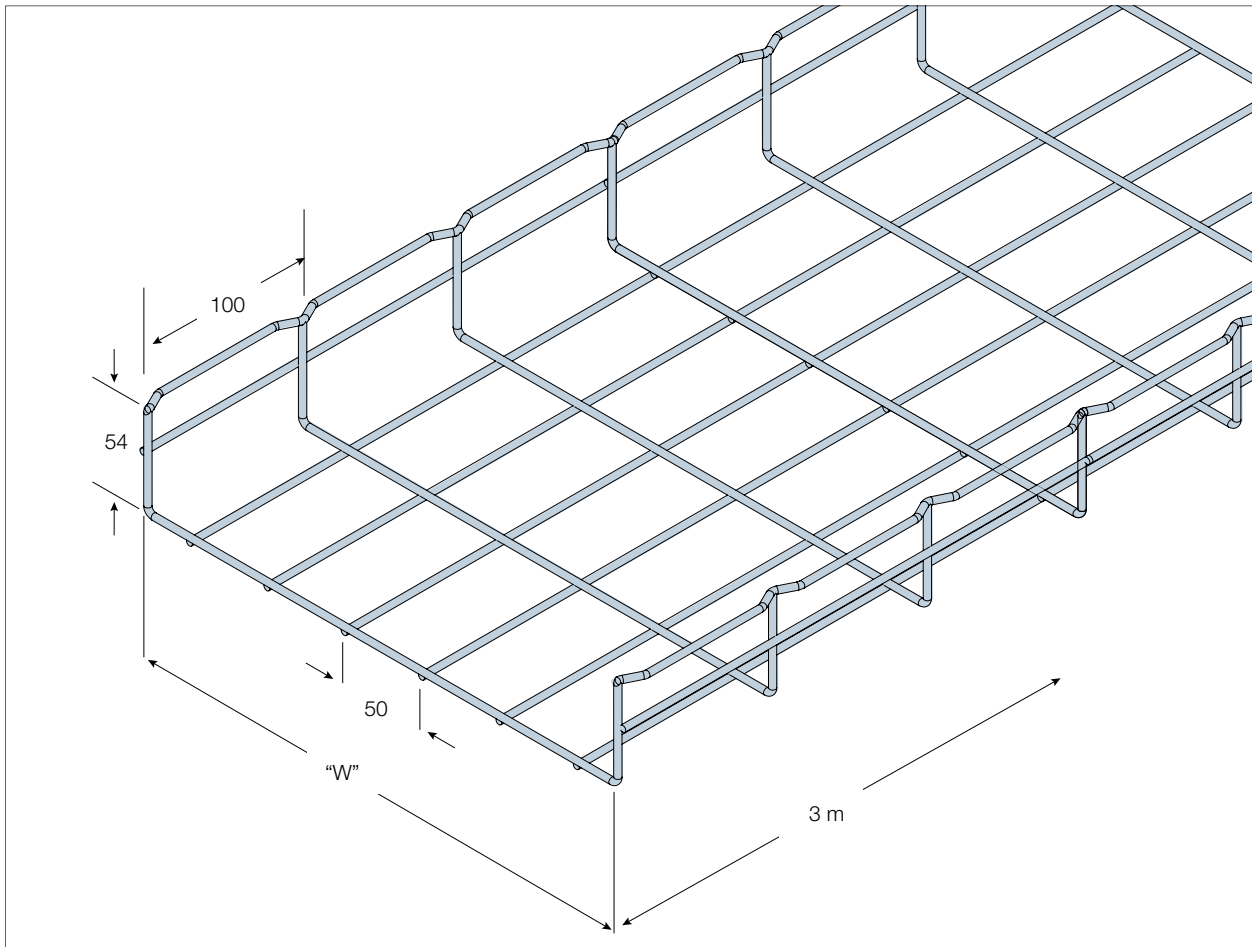
Optional Polyester Powder Coat finishes can be provided from our standard stock colours. Our range is White, Black, Orange and Grey Hammertone. Other colours or epoxy powder coat finish can be provided to firm orders.



## Cable Mesh – 54 mm

CABLE TRAY

Cable Mesh Tray  
54 mm



### When Ordering

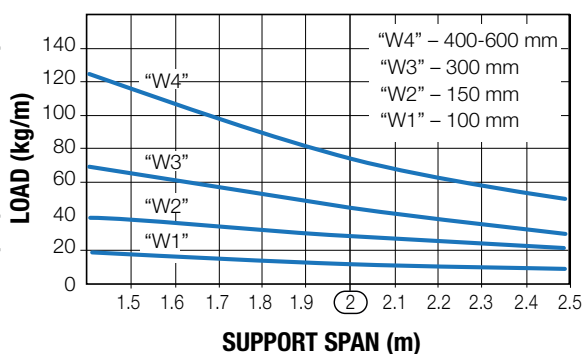
Range	Type	Wide	Finish
<b>KM</b>	<b>54</b>	<b>10</b>	<b>Z</b>
KM = Cable Mesh	54 = (54 mm High Side)	10 = 100 mm 15 = 150 mm 30 = 300 mm 40 = 400 mm 50 = 500 mm 60 = 600 mm	Z = Zinc Plated H = Hot Dip Galv P = Painted

ORDERING EXAMPLE SHOWN: Cable Mesh 54 mm High Side 100 mm Wide Zinc Plated

DEPTH: 50 mm inside

LENGTH: 3 m

### ALLOWABLE LOAD GRAPH

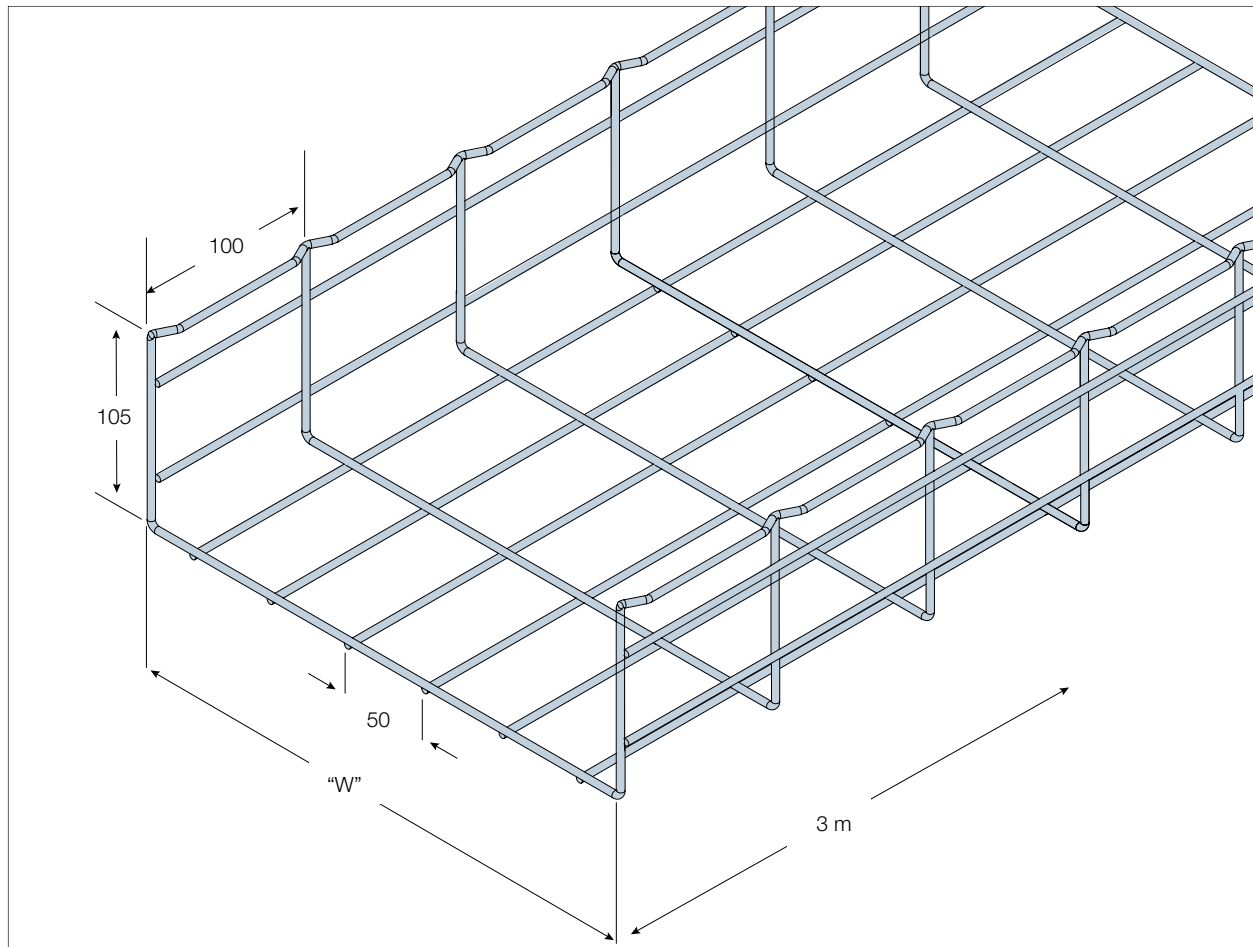


### KM 54 Tray

The graph shows kg/m loading over a given Support Span to the range Kounis Cable Mesh. The resultant Mid-span deflections given are at a ratio of 1/200 of the span. The deflections are for tray selection only and can vary with positioning of connectors or site.

E.&O.E.

## Cable Mesh – 105 mm



CABLE TRAY

Cable Mesh Tray  
104 mm

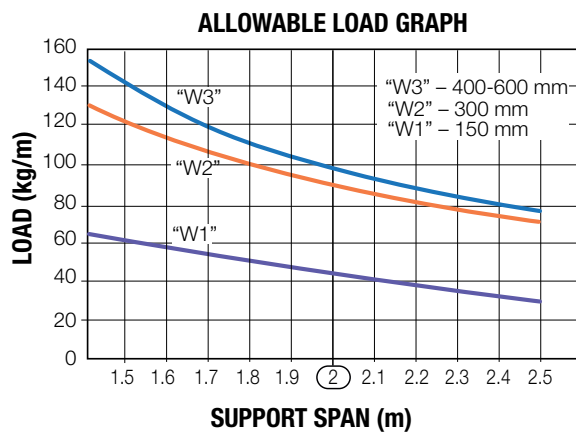
### When Ordering

Range	Type	Wide	Finish
<b>KM</b>	<b>105</b>	<b>10</b>	<b>Z</b>
KM = Cable Mesh	105 = (105 mm High Side)	15 = 150 mm 30 = 300 mm 45 = 450 mm 60 = 600 mm	Z = Zinc Plated H = Hot Dip Galv P = Painted

ORDERING EXAMPLE SHOWN: Cable Mesh 104 mm High Side 100 mm Wide Zinc Plated

DEPTH: 100 mm inside

LENGTH: 3 m

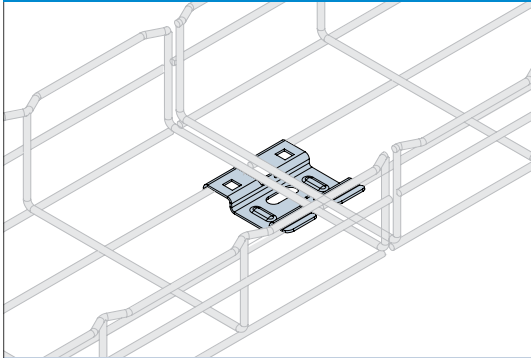


### KM 105 Tray

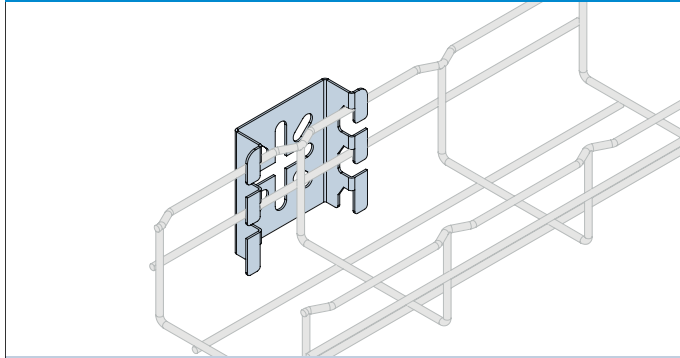
The graph shows kg/m loading over a given Support Span to the range Kounis Cable Mesh. The resultant Mid-span deflections given are at a ratio of 1/200 of the span. The deflections are for tray selection only and can vary with positioning of connectors.

E.&O.E.

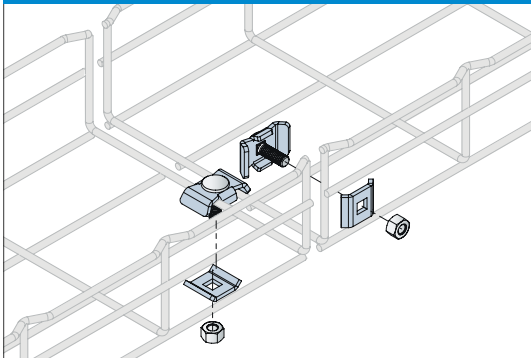
## Cable Mesh Tray Accessories & Connectors

**Base Connector**


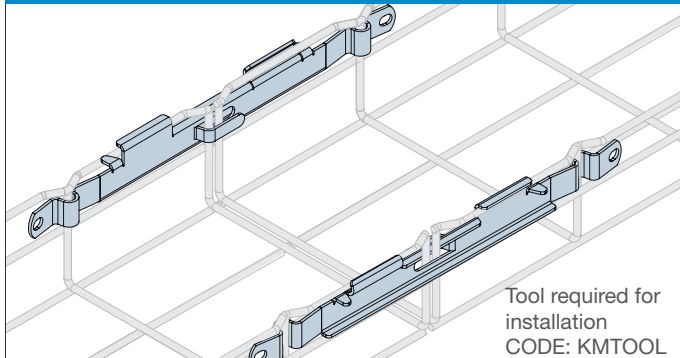
CODE: KML03

**Wall Bracket / Box Mounting**


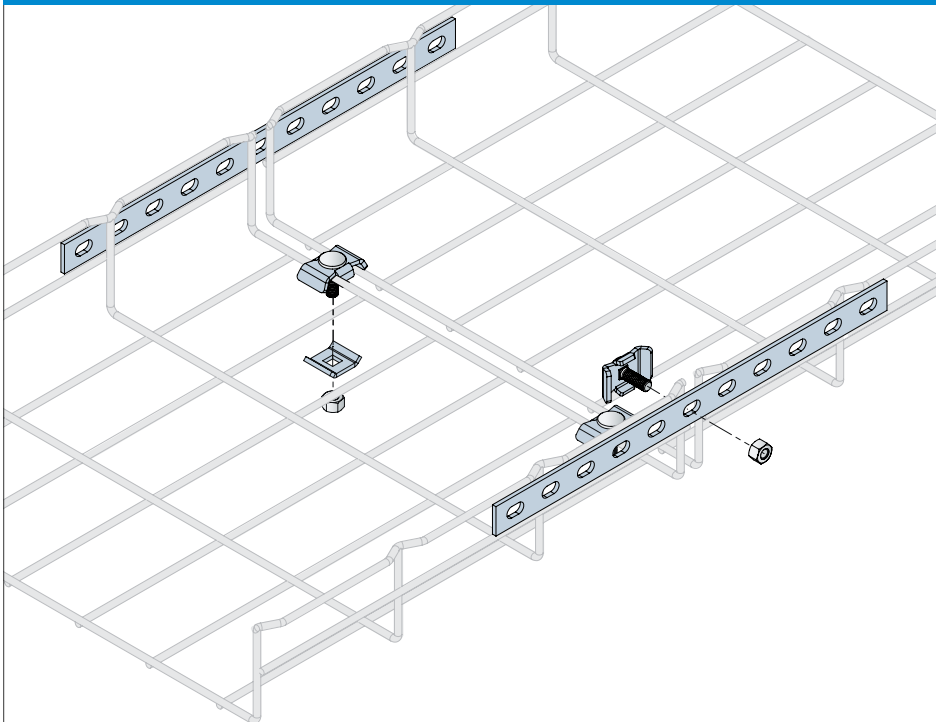
CODE: KMA06

**Connector & Bend Assembly**


CODE: KML06

**Tab Loc Connector**

 Tool required for  
installation  
CODE: KMTOOL

CODE: KML01A

**Splice Bar Joiner**


CODE: KML10

**Available Finish**

Suffix	Description
<b>H</b>	Hot Dip Galv
<b>Z</b>	Zinc Plated

**When Ordering** add suffix  
to end of product code

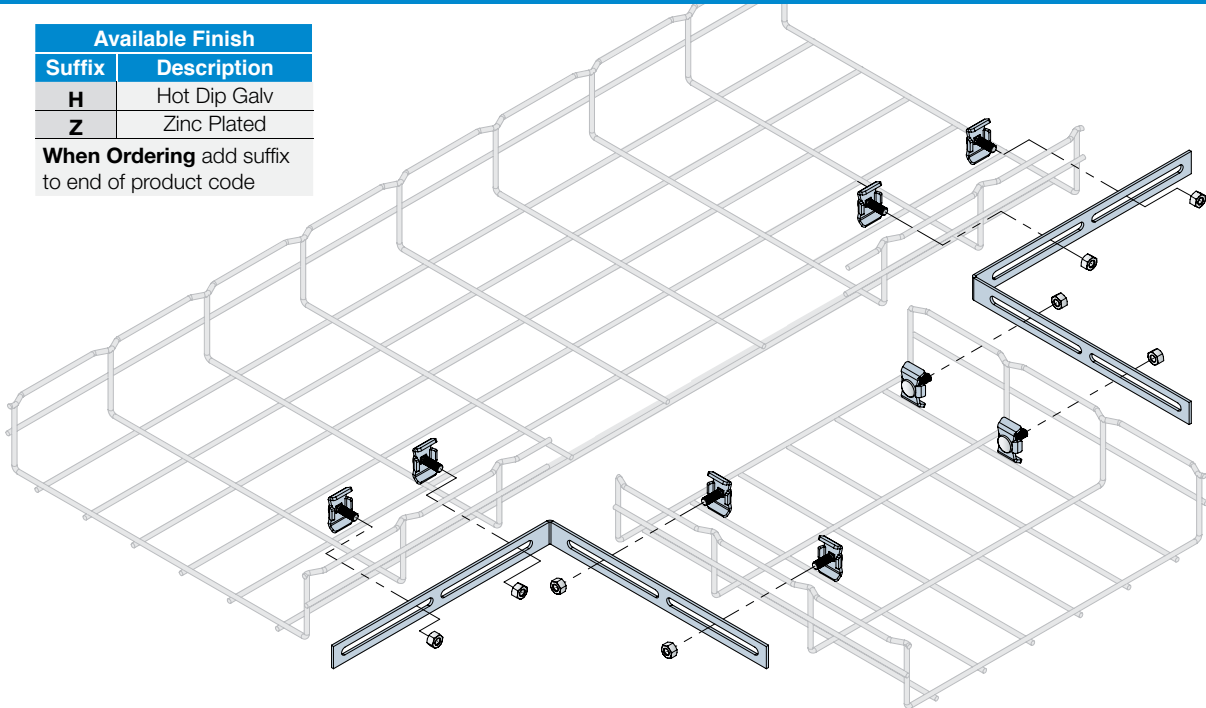
E.&amp;O.E.

# Cable Mesh Tray Accessories & Connectors

## Tee Bar Joiner

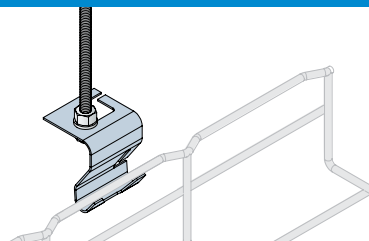
Available Finish	
Suffix	Description
<b>H</b>	Hot Dip Galv
<b>Z</b>	Zinc Plated

**When Ordering** add suffix to end of product code



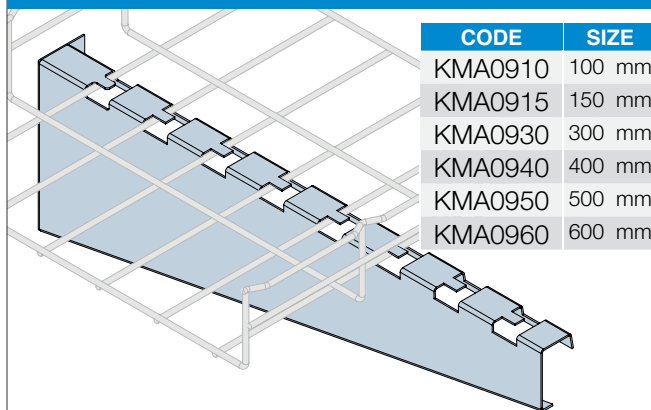
CODE: KML05A

## Overhead Hanger Clip



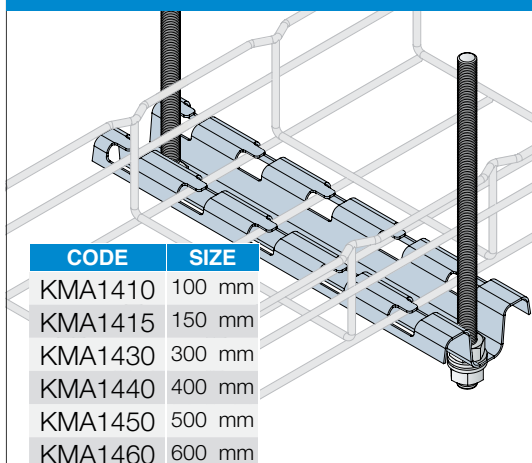
CODE: KMA19

## Slotted Wall Bracket 100-600 mm Wide



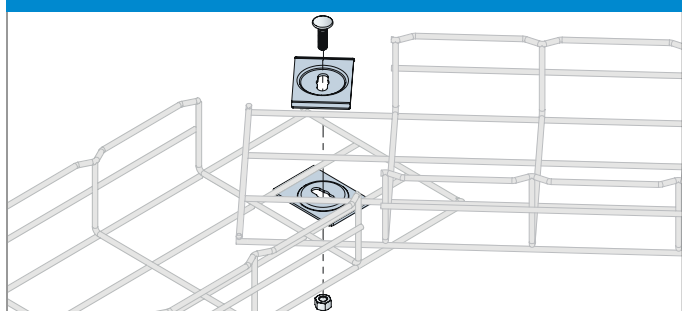
CODE: KMA09

## Trapeze Bracket 100-600 mm Wide



CODE: KMA14

## Horizontal Adjustment Hold Down Plate



CODE: KMLDA

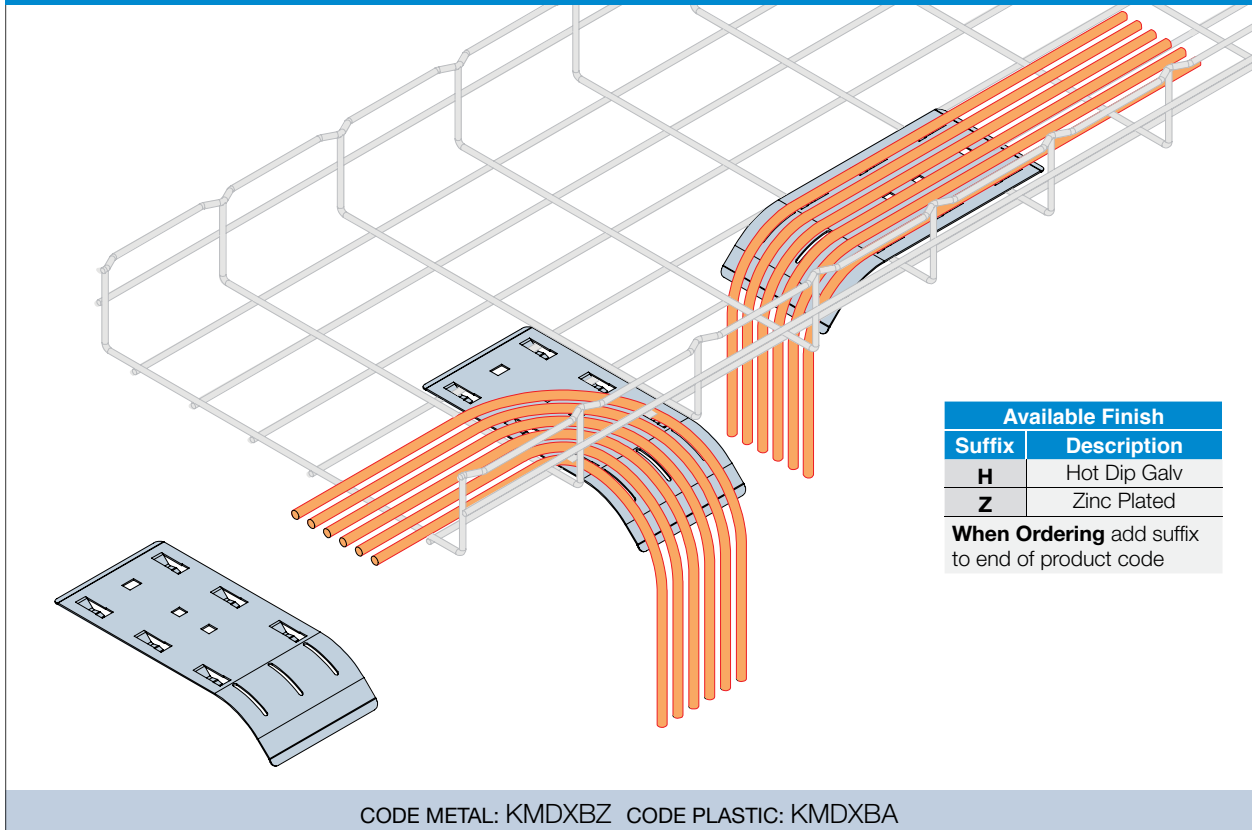
E.&O.E.

## Cable Mesh Tray Accessories & Connectors

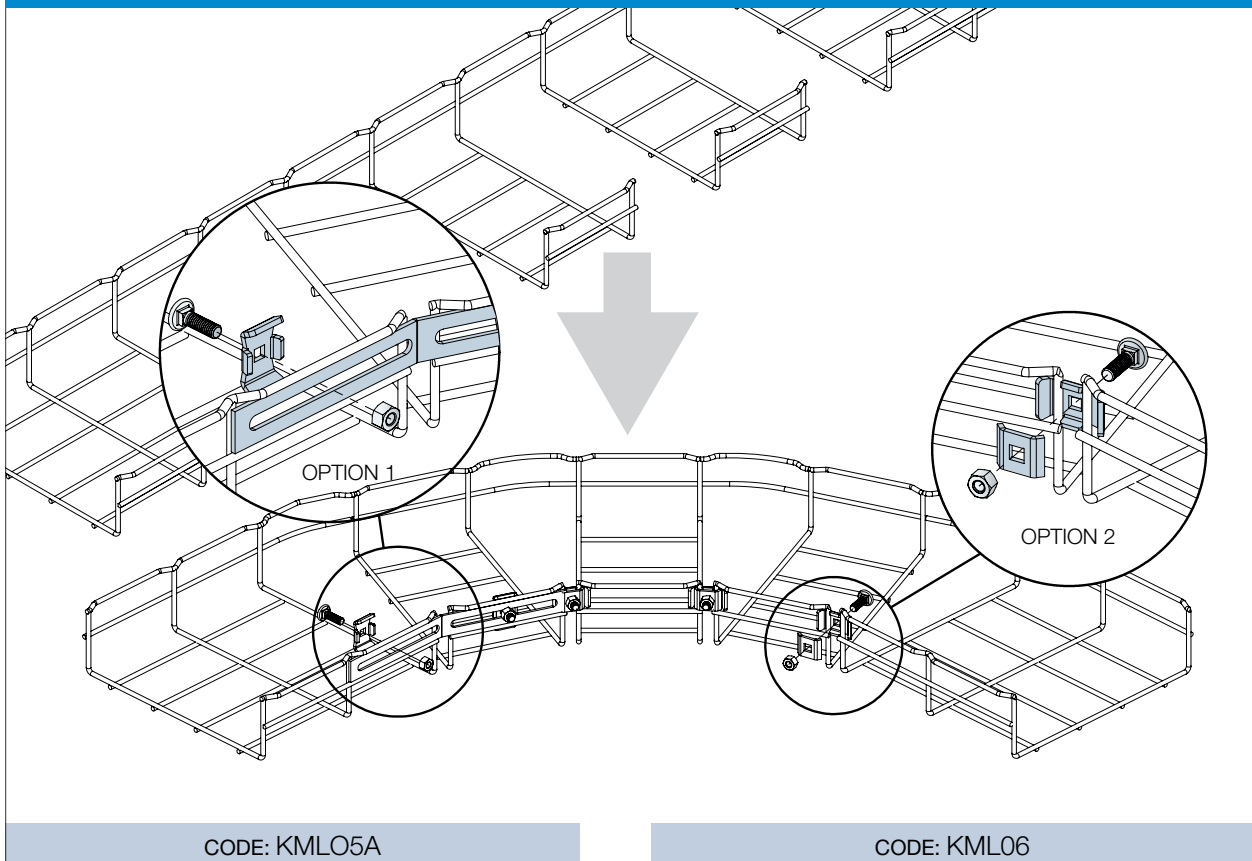
CABLE TRAY

Cable Mesh Tray  
Accessories & Connectors

### Cable Drop Out – Metal Or Plastic



### 90° Long Radius Bend



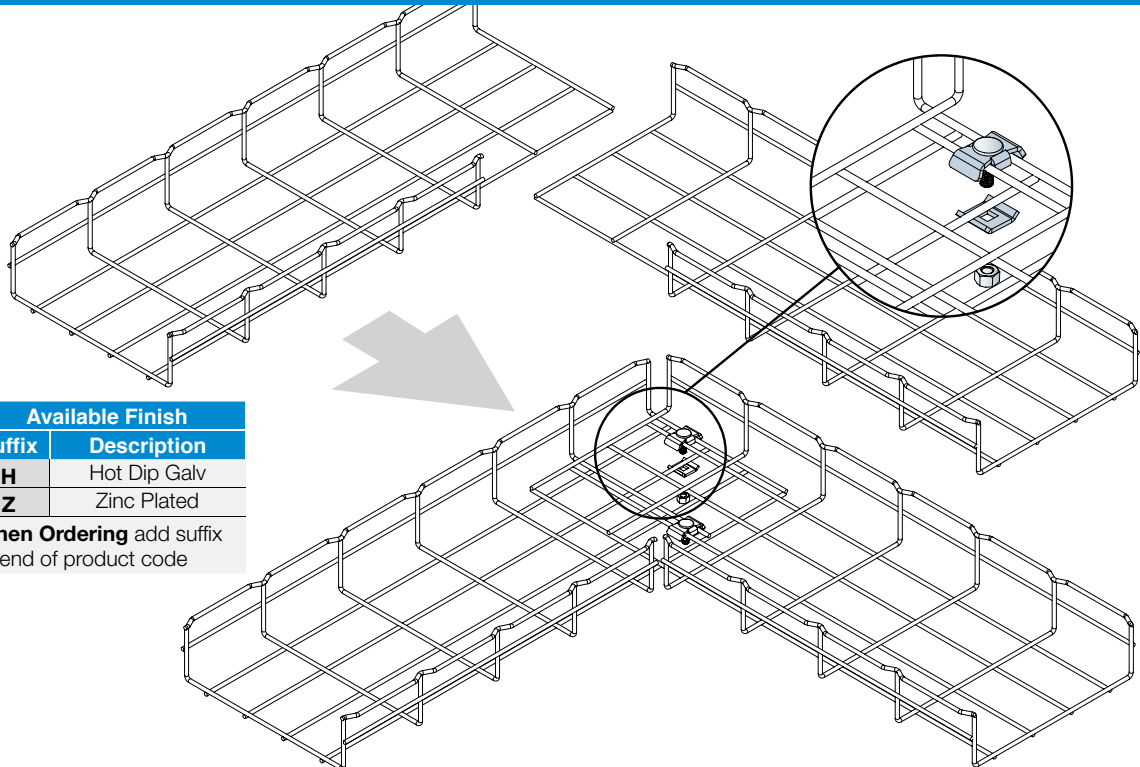
E.&O.E.



# Cable Mesh Tray Assembly Instruction

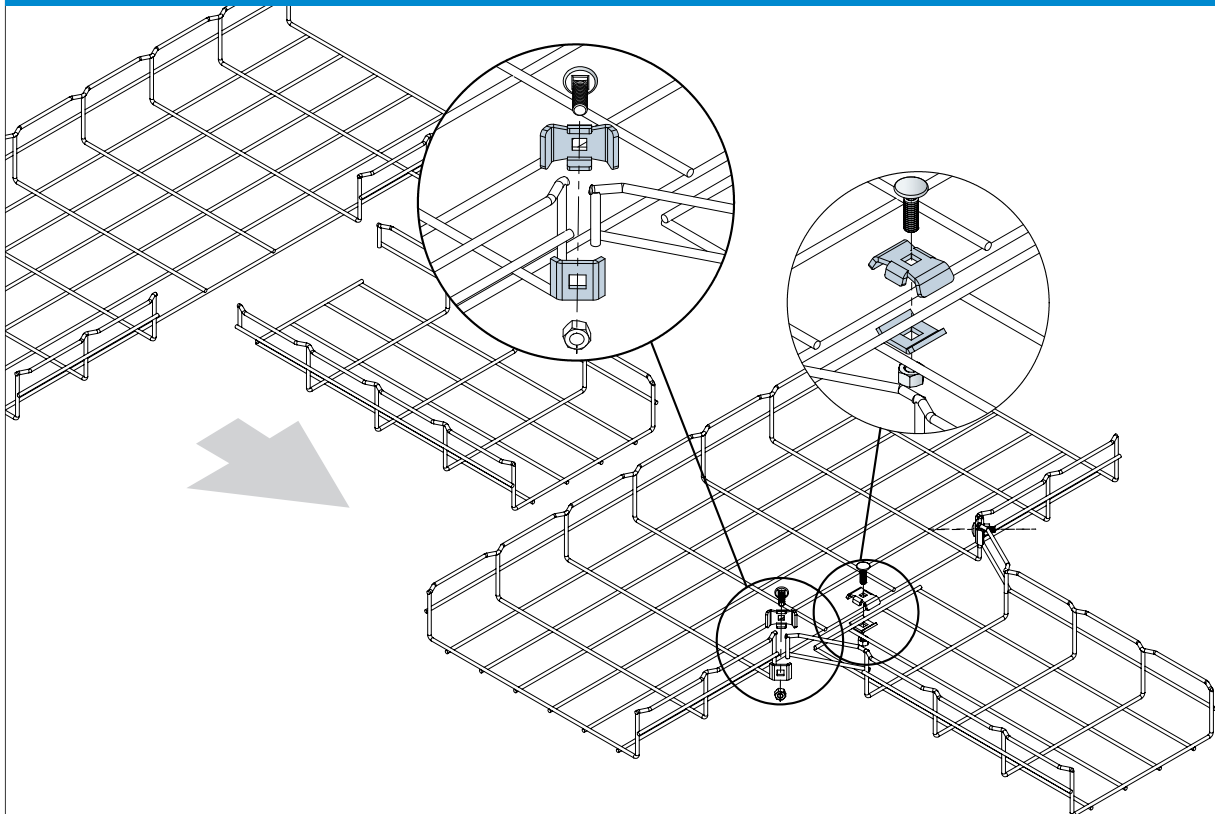
## 90° Short Radius Bend

Available Finish	
Suffix	Description
H	Hot Dip Galv
Z	Zinc Plated
When Ordering add suffix to end of product code	



CODE: KML06

## Tee



CODE: KML06

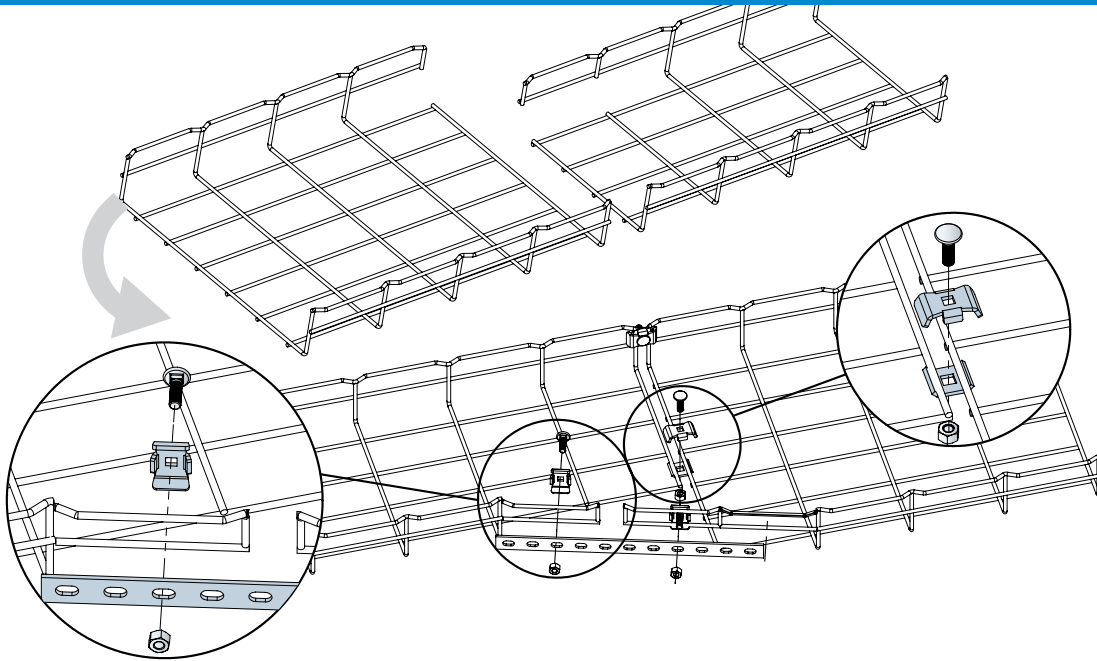
E.&O.E.

# Cable Mesh Tray Assembly Instruction

CABLE TRAY

Cable Mesh Tray  
Assembly Instruction

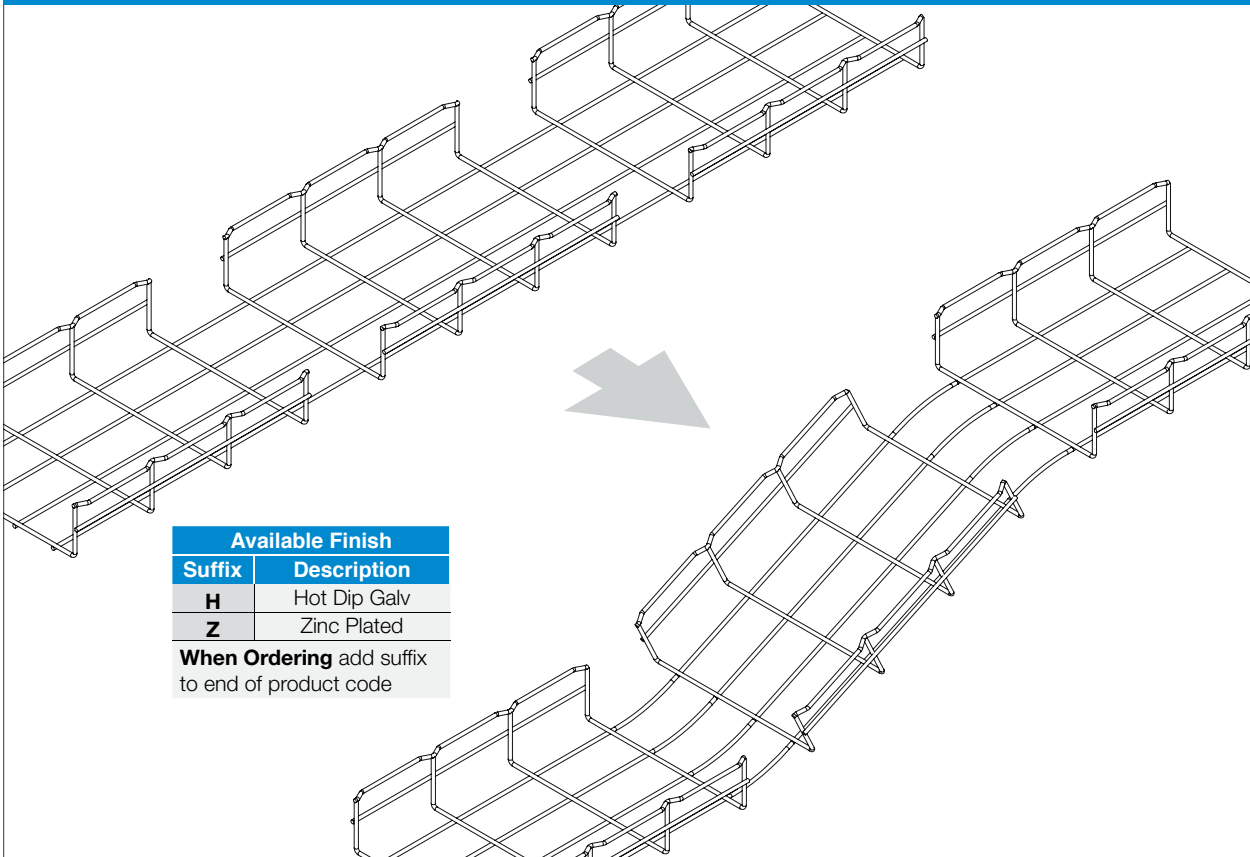
## Reducer



CODE: KML10

CODE: KML06

## Vertical Inside & Outside Bend

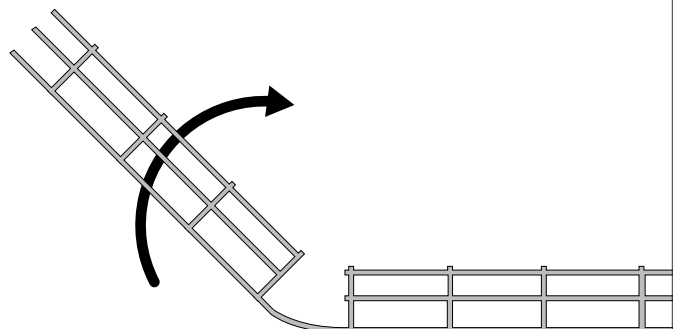
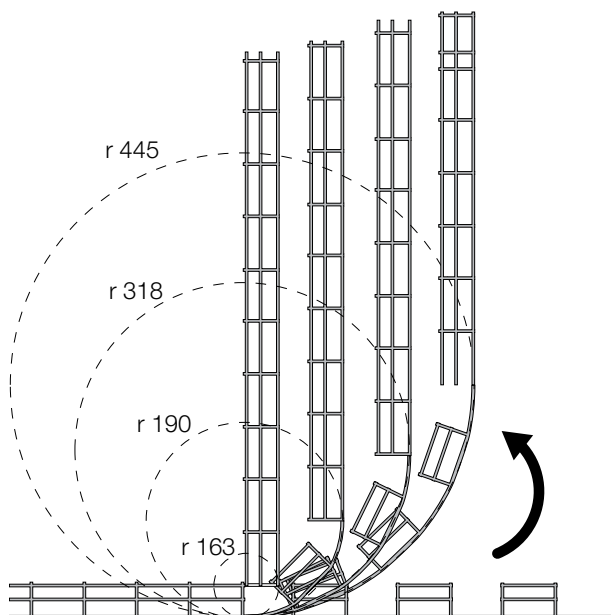
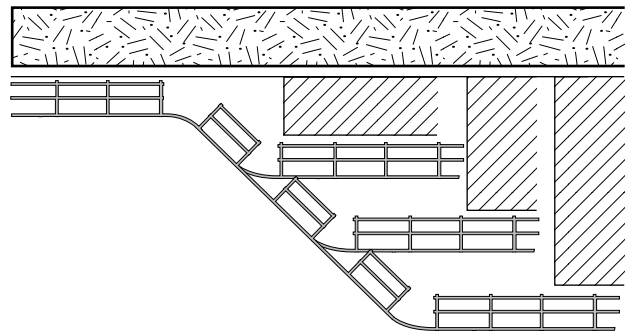
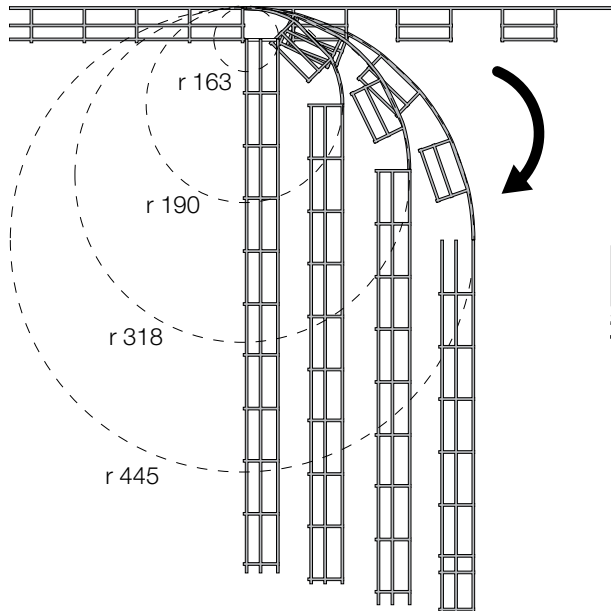


E.&O.E.



# Cable Mesh Tray Assembly Instruction

## Risers & Vertical Bends



**Vertical Bends**  
Adjustable on site

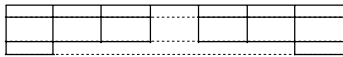
PLEASE NOTE: When cutting always keep the remaining sharp edge away from the inside of the tray.

Always use nuts on the outside of trays.

# Cable Mesh Tray Assembly Instruction

Wire trays can easily be formed into angles by simply cutting on-site the bottom and side wires. Cut the tray wires as shown on page 2:27 in the pattern belows. Angles such as 90° Short or Large Radius Bends, Tees, crosses, Reducers and Risers are easily formed on-site using standard wire trays, accessories and fixings.

## 90° Bends – Short Radius



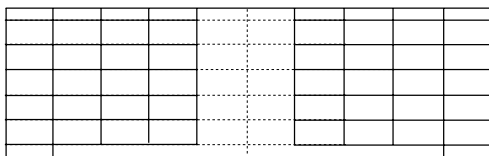
WIDTH OF TRAY	INTERNAL RADIUS mm	SIZE L x L mm	FIXINGS PER BEND
---------------------	--------------------------	---------------------	------------------------



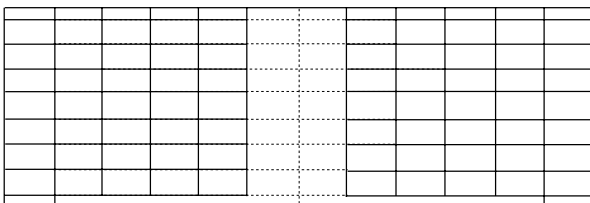
WIDTH OF TRAY	INTERNAL RADIUS mm	SIZE L x L mm	FIXINGS PER BEND
---------------------	--------------------------	---------------------	------------------------



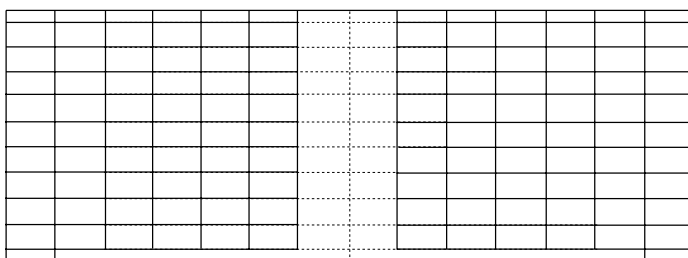
WIDTH OF TRAY	INTERNAL RADIUS mm	SIZE L x L mm	FIXINGS PER BEND
---------------------	--------------------------	---------------------	------------------------



WIDTH OF TRAY	INTERNAL RADIUS mm	SIZE L x L mm	FIXINGS PER BEND
---------------------	--------------------------	---------------------	------------------------

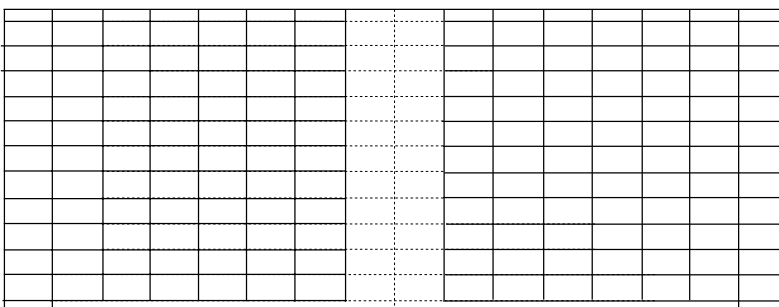


WIDTH OF TRAY	INTERNAL RADIUS mm	SIZE L x L mm	FIXINGS PER BEND
---------------------	--------------------------	---------------------	------------------------



WIDTH OF TRAY	INTERNAL RADIUS mm	SIZE L x L mm	FIXINGS PER BEND
---------------------	--------------------------	---------------------	------------------------

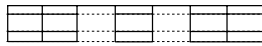
WIDTH OF TRAY	INTERNAL RADIUS mm	SIZE L x L mm	FIXINGS PER BEND
---------------------	--------------------------	---------------------	------------------------



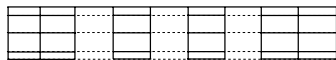
# Cable Mesh Tray Assembly Instruction

Wire trays can easily be formed into angles by simply cutting on-site the bottom and side wires. Cut the tray wires as shown on page 2:27 in the pattern belows. Large Radius Bends, are easily formed on-site using standard wire trays, accessories and fixings.

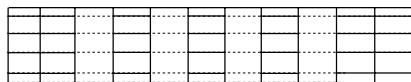
## 90° Bends – Large Radius



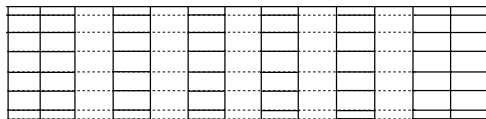
WIDTH OF TRAY	INTERNAL RADIUS mm	SIZE L x L mm
---------------	-----------------------	---------------------



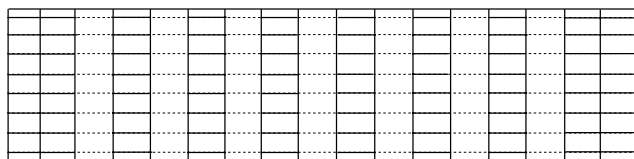
WIDTH OF TRAY	INTERNAL RADIUS mm	SIZE L x L mm
---------------	-----------------------	---------------------



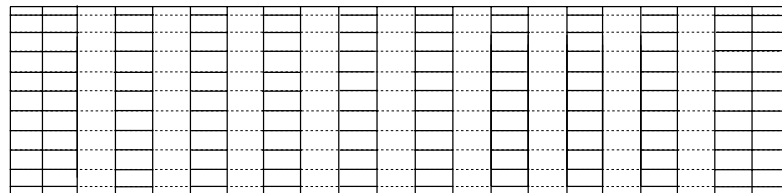
WIDTH OF TRAY	INTERNAL RADIUS mm	SIZE L x L mm
---------------	-----------------------	---------------------



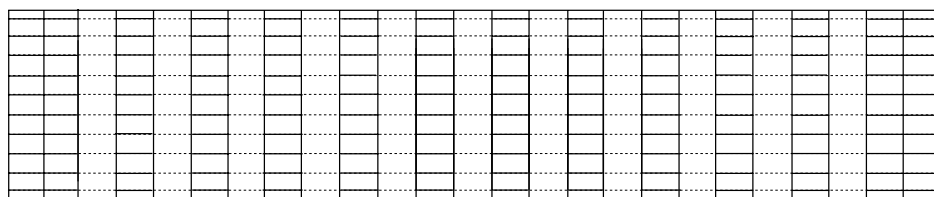
WIDTH OF TRAY	INTERNAL RADIUS mm	SIZE L x L mm
---------------	-----------------------	---------------------



WIDTH OF TRAY	INTERNAL RADIUS mm	SIZE L x L mm
---------------	-----------------------	---------------------



WIDTH OF TRAY	INTERNAL RADIUS mm	SIZE L x L mm
---------------	-----------------------	---------------------



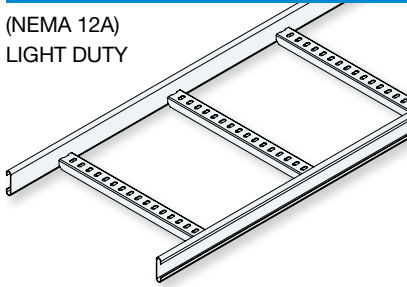
WIDTH OF TRAY	INTERNAL RADIUS mm	SIZE L x L mm
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## SECTION 3: Cable Ladder Hot Dip Galvanised

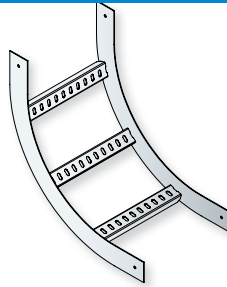
Cable Ladder Type 2/30

(NEMA 12A)  
LIGHT DUTY



> 3:3

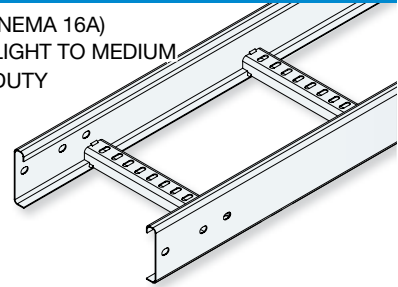
2/30 Fittings



> 3:4-3:6

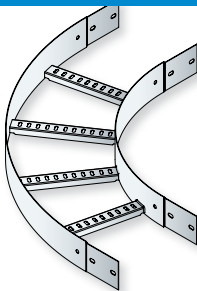
Cable Ladder Type 3/50

(NEMA 16A)  
LIGHT TO MEDIUM  
DUTY



> 3:7

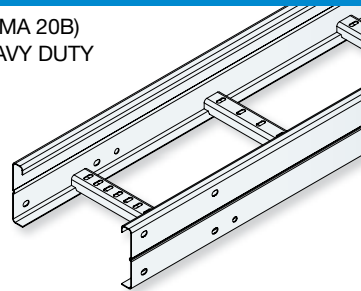
3/50 Fittings



> 3:8-3:10

Cable Ladder Type 4/70L

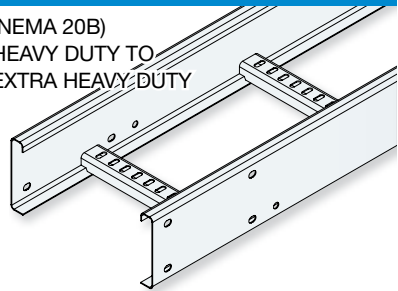
(NEMA 20B)  
HEAVY DUTY



> 3:11

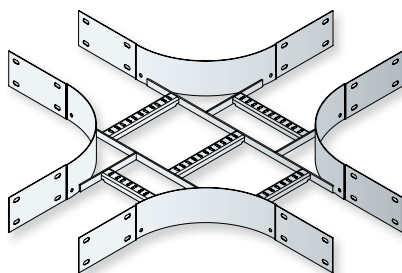
Cable Ladder Type 4/70

(NEMA 20B)  
HEAVY DUTY TO  
EXTRA HEAVY DUTY



> 3:12

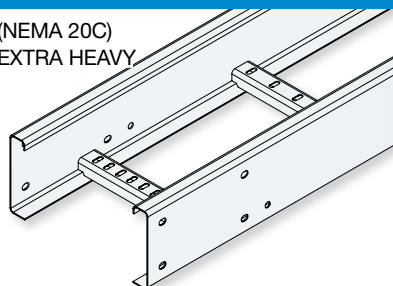
4/70L, 4/70 & 5/112 Fittings



> 3:13-3:16

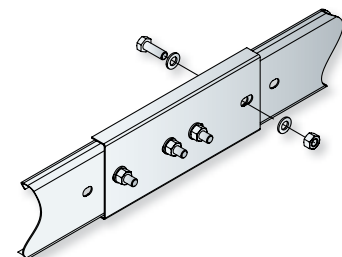
Cable Ladder Type 5/112

(NEMA 20C)  
EXTRA HEAVY



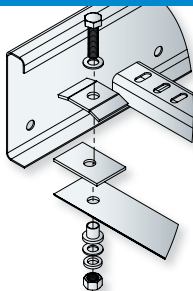
> 3:17

Splice Plates



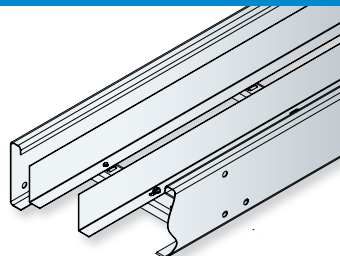
> 3:18

Hold Down Clamps



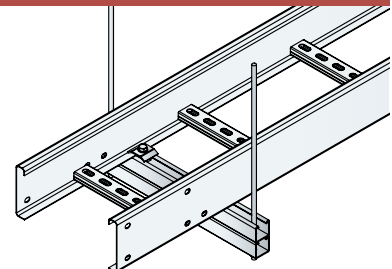
> 3:19

Barrier Strip



> 3:20

Fire Rated Cable Supports



See separate catalogue for Fire Rated Cable Support details

# Cable Ladder Hot Dip Galvanised

## General Description

The Kounis Group Hot Dip Galvanised Cable Ladder Systems are developed for use in commercial, industrial & mining applications.

Its superior support strength and open ventilation allows for effortless installation of electrical cables and or pipe work.

The finished product is constructed from mild Steel side rail sections and rungs welded at 300 mm continuous spacings, surface treatment is post production Hot Dip Galvanising.

This product range comprises of five system types to cover a wide range of requirements; **Type 2/30** Light Duty 65 mm Side (NEMA 12A), **Type 3/50** Medium to Heavy Duty 100 mm Side (NEMA 16A), **Type 4/70L** Heavy Duty 1.6 mm 130 mm Side (NEMA 20B), **Type 4/70** Heavy to Extra Heavy Duty 2.0 mm 130 mm Side (NEMA 20B) and **Type 5/112** Extra Heavy Duty 146 mm Side (NEMA 20C). All of which offer the following standard features:

- 6 m length
- Self-splicing Bend, Riser, Tee & Cross Fittings
- Rail in or rail out option (Type 2/30 is only available in Rail Out)
- Earthing holes at point of connection on straight lengths as well as fittings
- Channel type rung offering superior strength
- 25 mm rung tie off centres to allow maximum tie off options
- Engineer certification to withstand certain cyclonic conditions (only available for type 4/70 & 5/112, minimum installation requirements apply)

All fitting radius measurements are to the internal side rail, stock standard radius varies depending on cable ladder system type and branch standard. All other listed radius options are made to firm order.

Load capacities and deflection graphs are published by type and can be found on the straight length page for the associated cable ladder system.

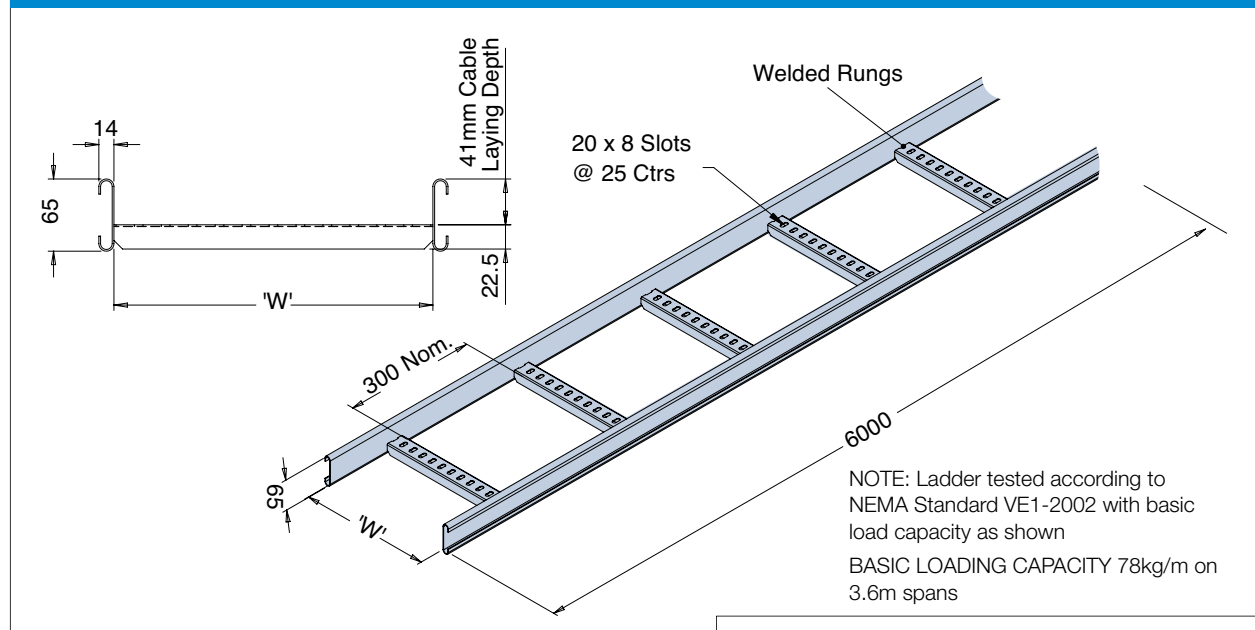
Tested to NEMA VE1-2002 Standards, Full engineering details are available on request.

E.&O.E.

# Cable Ladder Light Duty Type 2/30 12A

## 1.6 mm Steel Galvanised

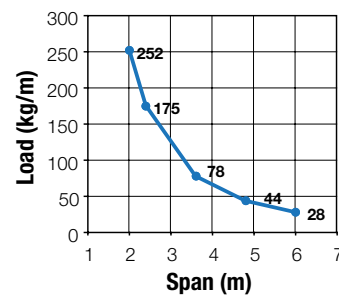
### Cable Ladder Type 2/30 Galvanised



### Specification

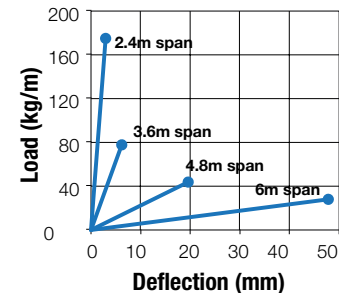
<b>Class Designation:</b>	Cable ladder- light duty type 2/30.
<b>Material:</b>	Steel sheet.
<b>Finish:</b>	Hot dip galvanised after fabrication to: AS/NZS 4680 i.e.390gm/m <sup>2</sup> zinc, approximately 55µm.
<b>Rung Spacing:</b>	300mm spacing with slotted rungs standard
<b>Side Depth:</b>	65 mm high sided tray.
<b>Inside Depth:</b>	41 mm cable laying depth
<b>Stock Length:</b>	6000 mm standard joining together by a pair of quick fix bolt on splice plates supplied separately. No side rail drilling required.
<b>Stock Widths:</b>	150 mm, 300 mm, 450 mm & 600 mm standard widths.
<b>Fittings:</b>	A full range fitting are available e.g. bend, risers, tees, crosses & reducers.
<b>Radius:</b>	300mm radius for standard fittings. Other radius fittings are available and made to firm orders.
<b>Accessories:</b>	Flat or peak covers available for ladders & fittings. Barrier strips. Hold down clamps.

### ALLOWABLE LOAD GRAPH



Allowable loads are determined generally in accordance with NEMA requirements and verified by testing. Safety factor = 1.5 over collapse load for single span.

### DEFLECTION GRAPH



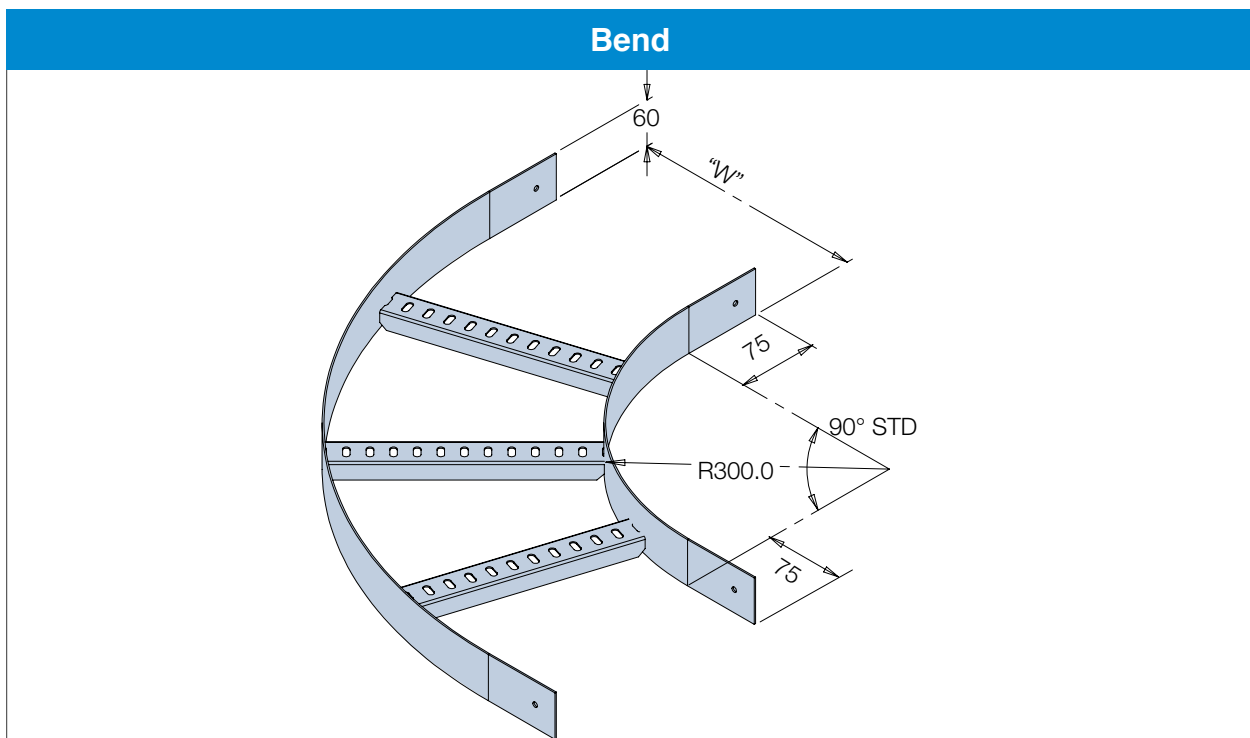
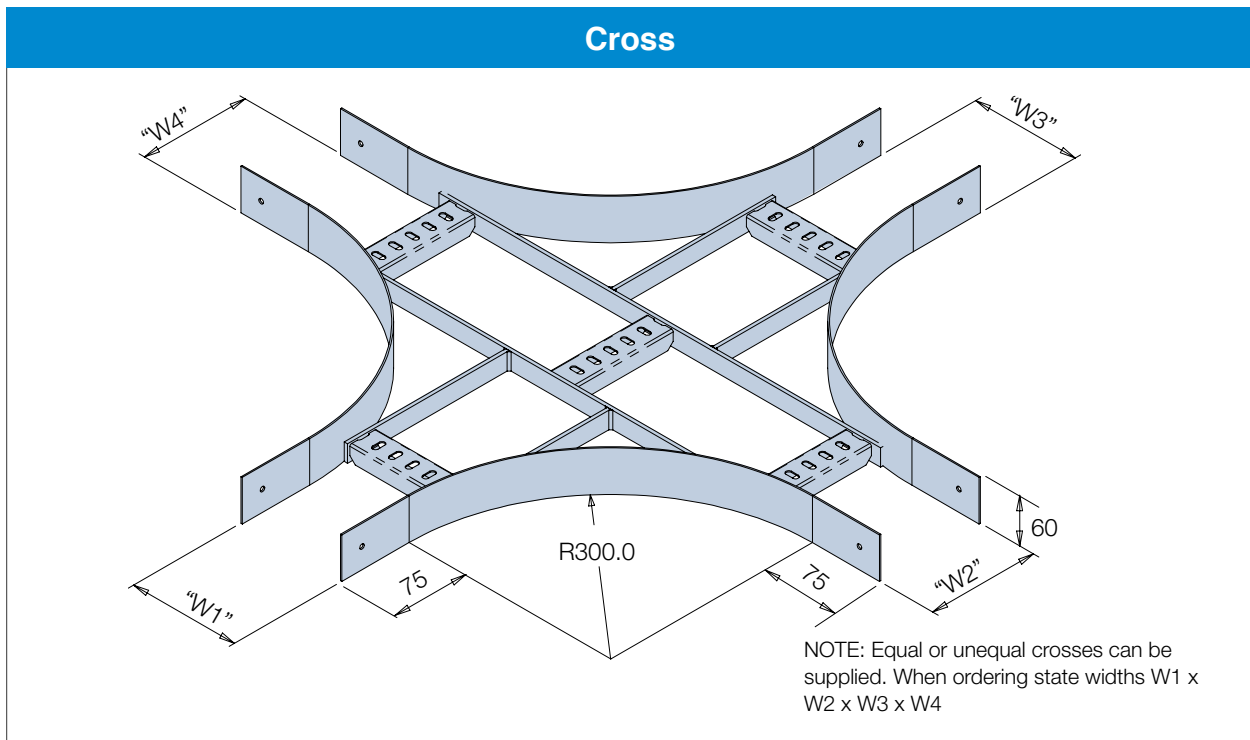
Deflections shown apply to the end bays (worst case) of a continuous ladder run. To find deflection of a single span, multiply by 2.5.

### When Ordering

Range	Type	Wide	Std.Finish	Fastenings	Rail Direction	Finish
<b>2C</b> 2C = 2/30 65 mm High Side 1.6 mm Gauge	<b>L</b> L = Straight 6 metre Length	<b>15</b> 15 = 150 mm 30 = 300 mm 45 = 450 mm 60 = 600 mm 75 = 750 mm 90 = 900 mm	<b>H</b> H = Hot Dip Galv	<b>K</b> K = includes all required Splice plates with Bolts and nuts	Only supplied with Rail Out standard rail (see Rail note)	<b>PC-COL</b> PC-COL = paint Painted finish to Kounis standard colour range
RAIL NOTE: This Ladder (RO) is a Kounis standard and will not show in a supply code. Rail In ladder is not available.		Ordering example shown: 2/30 Cable Ladder 150mm wide x 6 metre HDG c/w Splice Plates Bolts and Nuts. Painted Finish to specification colour.				



## Cable Ladder 2/30 Fittings

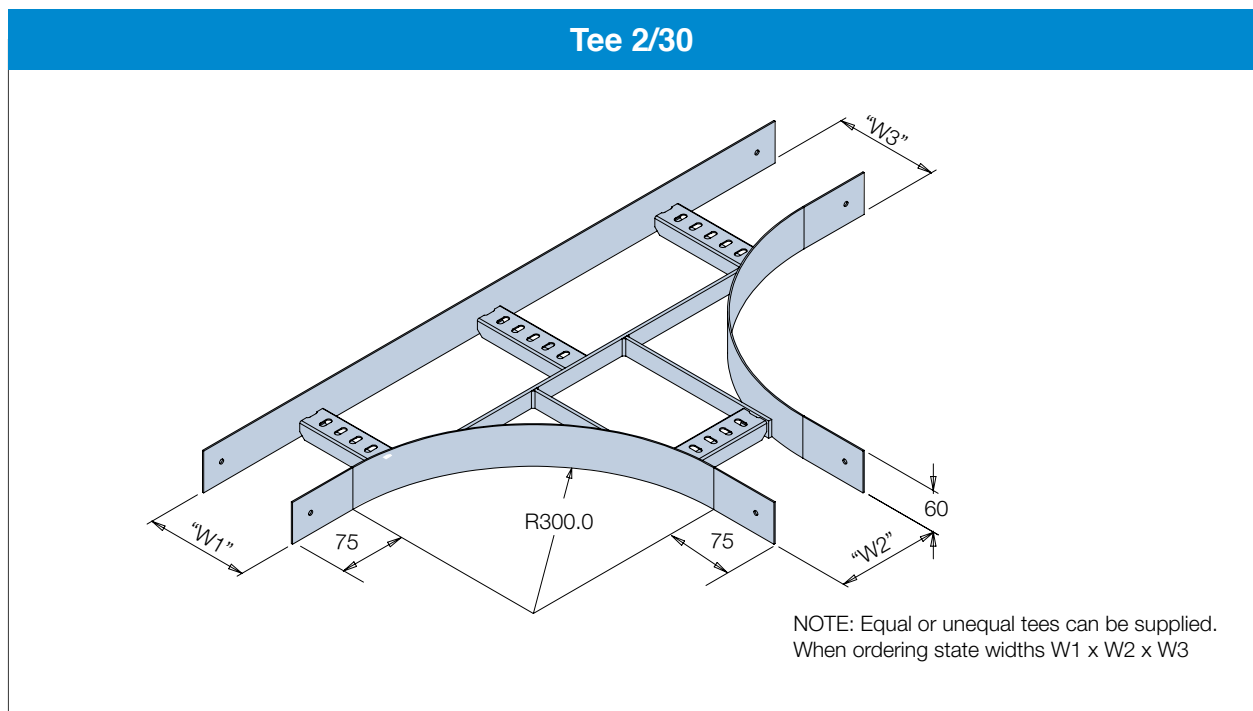
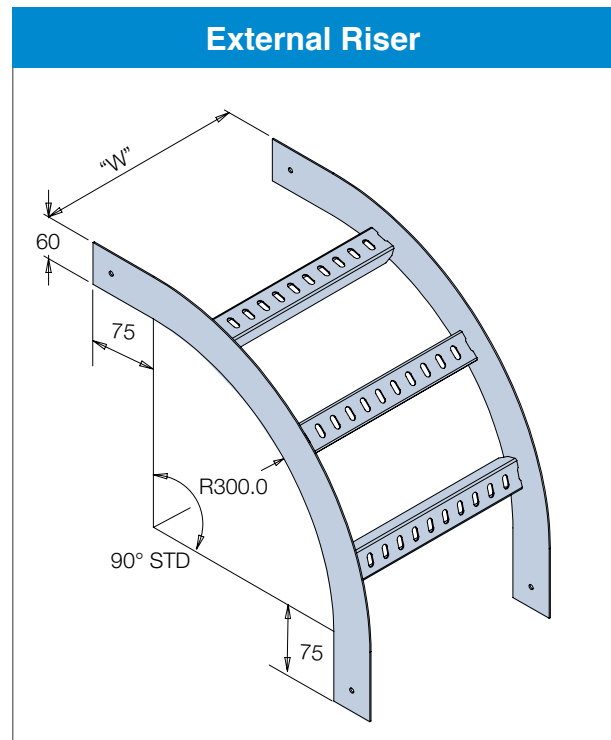
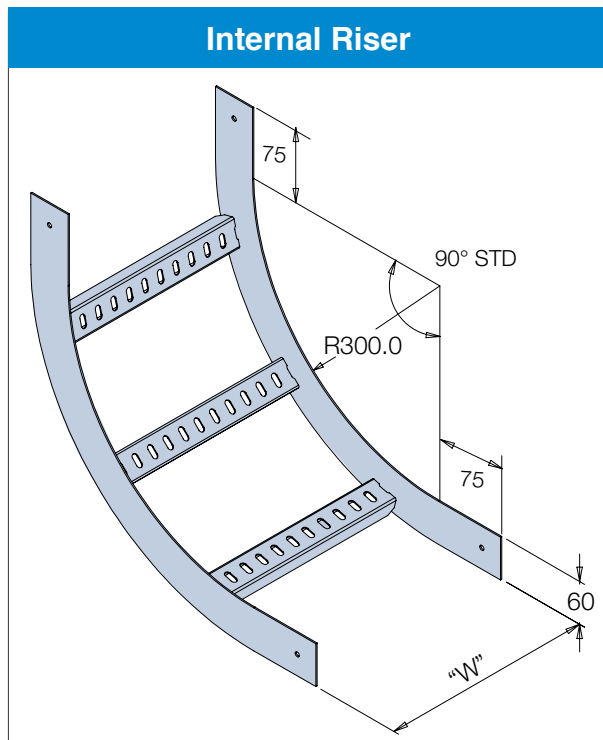


### When Ordering

Range	Type	Wide	Material	Fastenings	Rail Direction	Radius	Finish
<b>2C</b> 2C = 2/30 65 mm High Side 1.6 mm thk.	<b>B</b> B = Bend 90° (see Ordering note) C = Cross Equal	<b>15</b> 15 = 150 mm 30 = 300 mm 45 = 450 mm 60 = 600 mm 75 = 750 mm 90 = 900 mm	<b>H</b> H = Mild Steel Hot Dip Galv S = 316 Stainless Steel A = Aluminium	<b>K</b> K = includes all required Bolts and nuts	Only supplied with Rail Out standard rail	<b>3</b> 3 = 300 mm	<b>PC-COL</b> PC-COL = paint Painted finish to Kounis standard colour range
RAIL NOTE: This Ladder (RO) is a Kounis standard and will not show in a supply code. Rail In ladder is not available.		ORDERING EXAMPLE SHOWN: 2/30 Cable Ladder 90° Bend 150mm wide HDG 300mm Radius c/w Bolts and Nuts. Painted Finish to specification colour					

E.&O.E.

## Cable Ladder 2/30 Fittings

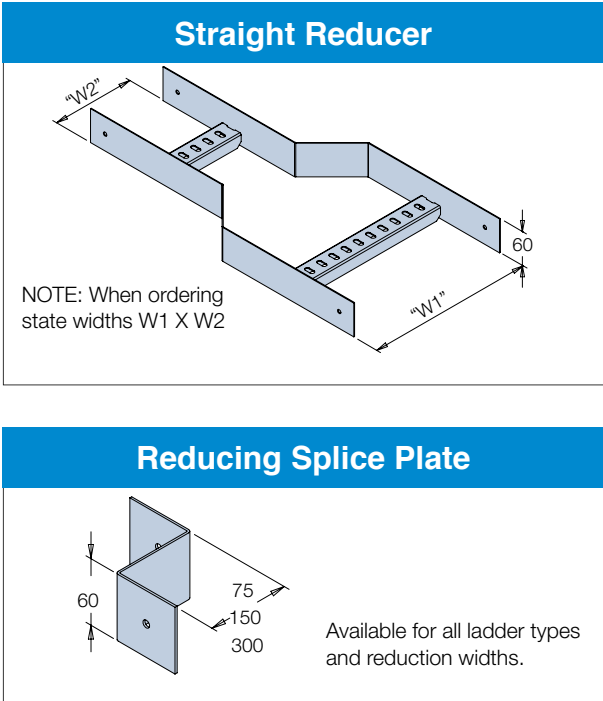
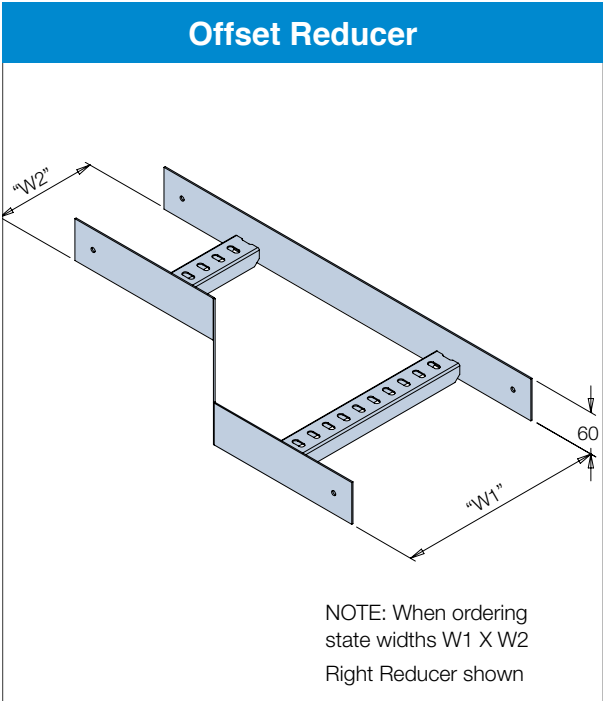


### When Ordering

Range	Type	Wide	Material	Fastenings	Rail Direction	Radius	Finish
<b>2C</b> 2C = 2/30 65mm High Side 1.6mm thk.	<b>RI</b> RI = Internal Riser 90° RX=External Riser 90° (see Ordering note) T = Tee Equal	<b>15</b> 15 = 150 mm 30 = 300 mm 45 = 450 mm 60 = 600 mm 75 = 750 mm 90 = 900 mm	<b>H</b> H = Mild Steel Hot Dip Galv	<b>K</b> K = includes all required Bolts and nuts	Only supplied with Rail Out standard rail (see Rail note)	<b>3</b> 3 = 300 mm	<b>PC-COL</b> PC-COL = paint Painted finish to Kounis standard colour range
<p>RAIL NOTE: This Ladder (RO) is a Kounis standard and will not show in a supply code. Rail In ladder is not available.</p> <p>ORDERING EXAMPLE SHOWN: 2/30 Cable Ladder 90° Internal Riser 150 mm wide HDG 300 mm Radius c/w Bolts and Nuts. Painted Finish to specification colour.</p> <p>NOTE: 45, 30 and 60° option shown after width (e.g.: 1545) code for alternative 150 mm 45° Riser.</p>							

E.&O.E.

## Cable Ladder 2/30 Fittings

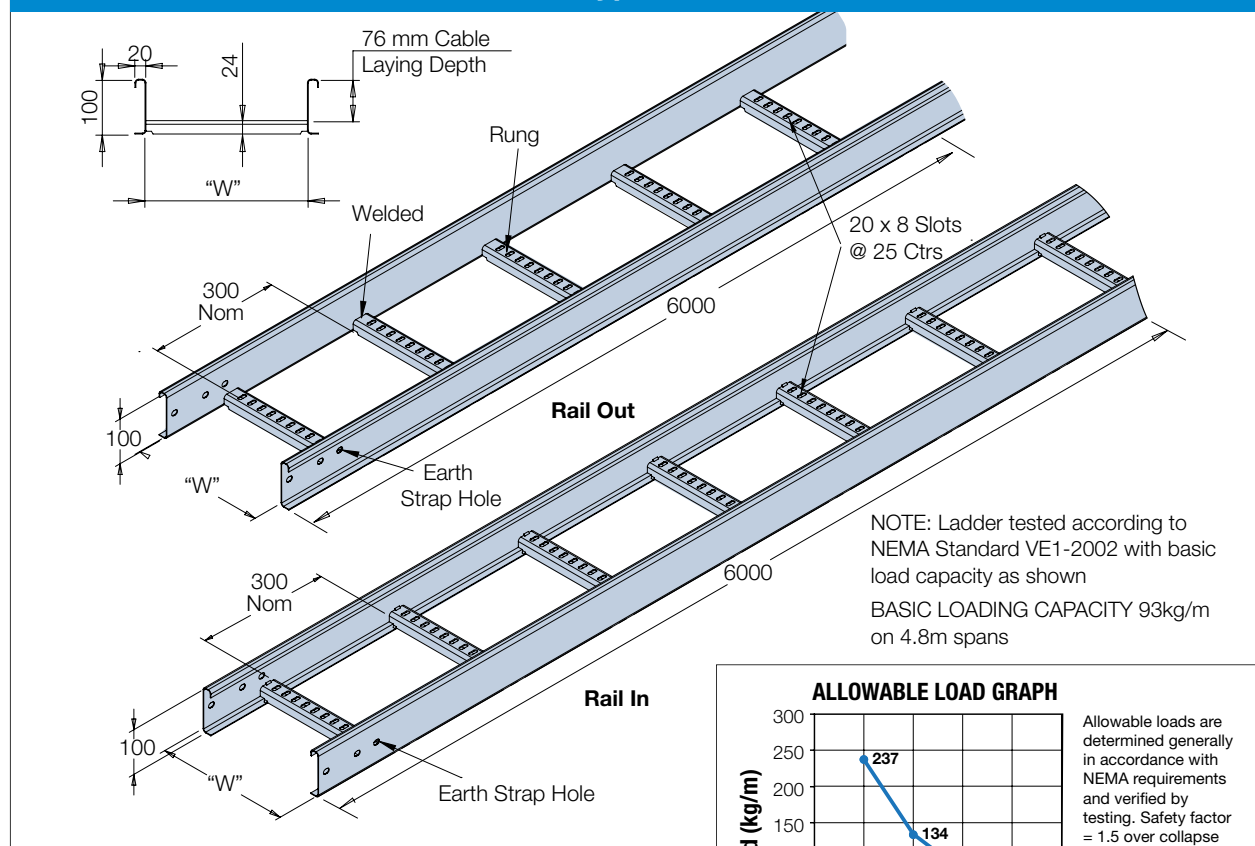


### When Ordering

Range	Type	Wide	Material	Fastenings	Rail Direction	Finish
<b>2C</b>	<b>SR</b>	<b>3015</b>	<b>H</b>	<b>K</b>		<b>PC-COL</b>
2C = 2/30 65 mm High Side 1.6 mm thk.	SR = Straight Reducer RR = Right Reducer LR = Left Reducer PR = Reducing Splice Plate (75-150-300 mm)	3015 = 300 to 150 mm 4530 = 450 to 300 mm 6045 = 600 to 450 mm 7560 = 750 to 600 mm 9075 = 900 to 750 mm	H = Mild Steel Hot Dip Galv S = 316 Stainless Steel A = Aluminium	K = includes all required Bolts and nuts	Only supplied with Rail Out (See Rail note)	PC-COL = paint Painted finish to Kounis standard colour range
RAIL NOTE: This Ladder (RO) is a Kounis standard and will not show in a supply code. Rail In ladder is not available.		ORDERING EXAMPLE SHOWN: 2/30 Cable Ladder Straight Reducer 300 to 150 mm wide HDG c/w Bolts and Nuts. Painted Finish to specification colour.				

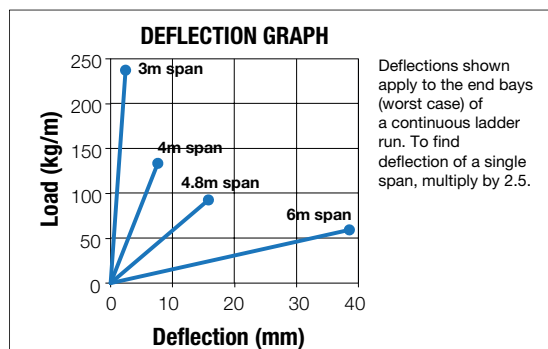
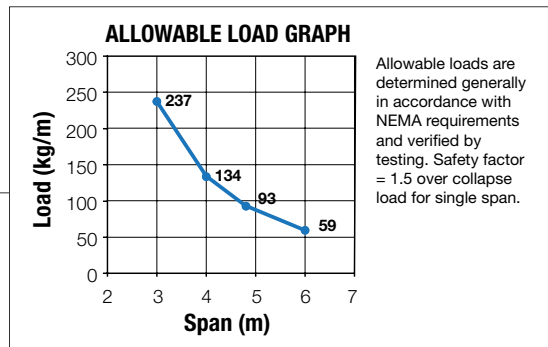
# Cable Ladder Medium To Heavy Duty Type 3/50 16A 1.6 mm Steel Galvanised

## Cable Ladder Type 3/50 Galvanised



### Specification

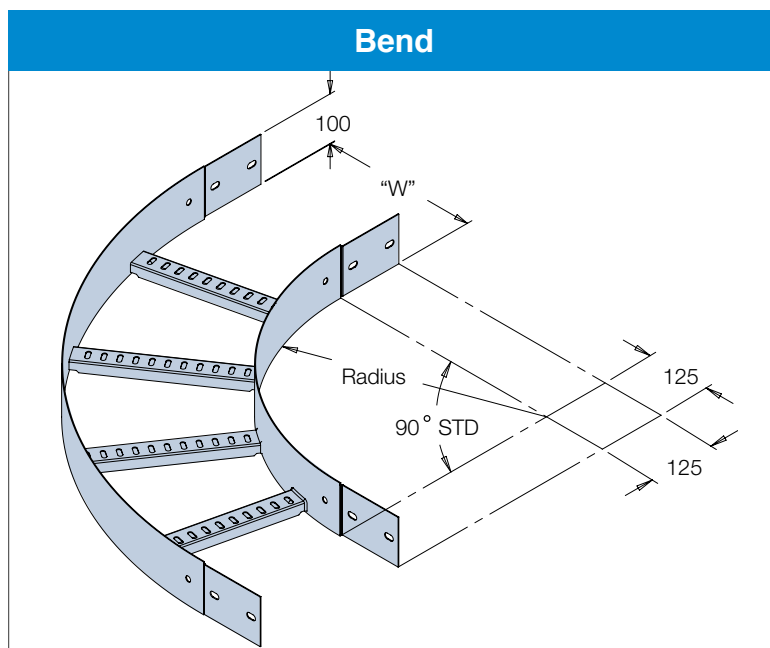
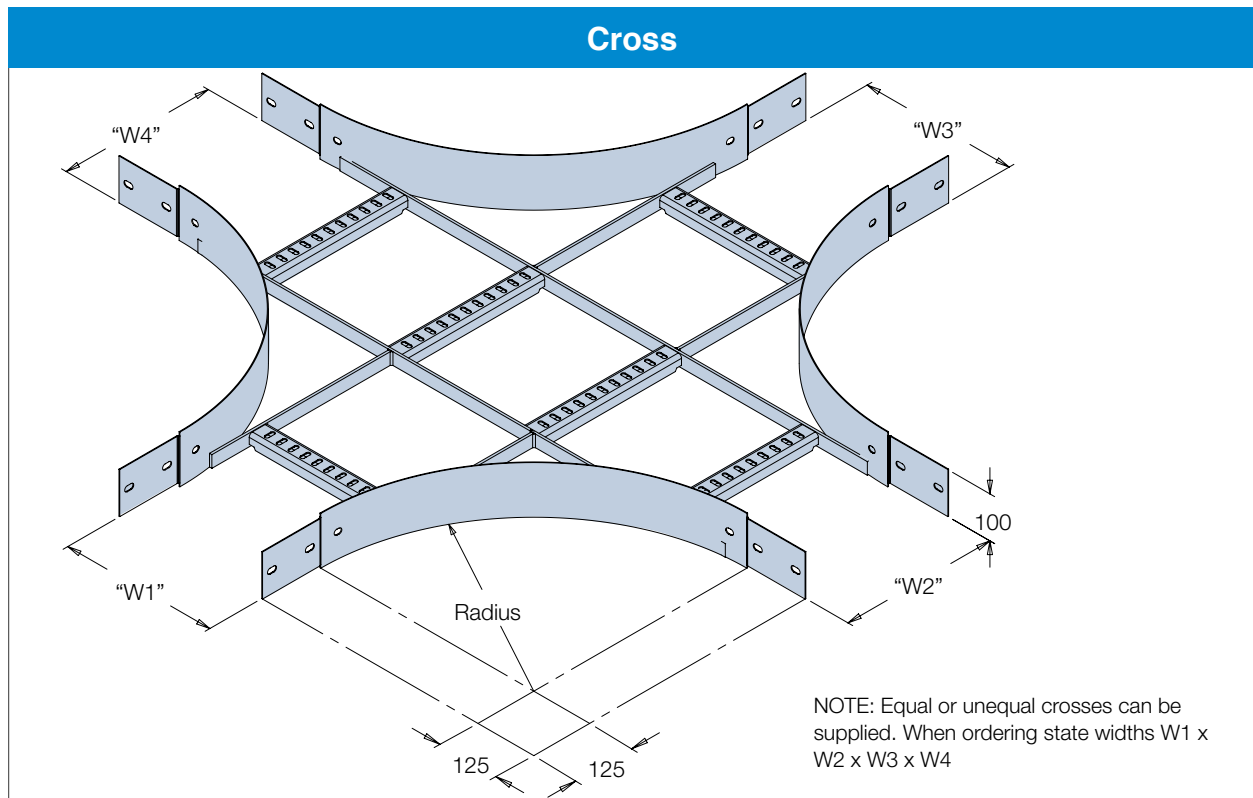
<b>Class Designation:</b>	Cable ladder-medium to heavy duty type 3/50
<b>Material:</b>	Steel sheet.
<b>Finish:</b>	Hot dipped galvanised after fabrication to AS/NZS 4680 i.e. 390 gm/m <sup>2</sup> zinc, approx. 55µm.
<b>Rung Spacing:</b>	300 mm spacings with slotted rungs standard.
<b>Inside Depth:</b>	76 mm cable laying depth.
<b>Stock Length:</b>	6000 mm standard, joining together by full strength splice plates.
<b>Stock Widths:</b>	150 mm, 300 mm, 450 mm & 600 mm standard other widths available by request.
<b>Fittings:</b>	A full range of fittings are available e.g. bends, risers, tees, crosses & reducers.
<b>Radius:</b>	300 mm radius standard for rail in. 450 mm radius standard for rail out. Other radii available by request.
<b>Accessories:</b>	Flat or peak covers available for ladders & fittings. Barrier strips. Hold down clamps.



### When Ordering

Range	Type	Wide	Std.Finish	Fastenings	Rail Direction	Finish
<b>3C</b> 3C = 3/50 100 mm High Side 1.6 mm Gauge	<b>L</b> L = Straight 6 metre Length	<b>15</b> 15 = 150 mm 30 = 300 mm 45 = 450 mm 60 = 600 mm 75 = 750 mm 90 = 900 mm	<b>H</b> H = Hot Dip Galv	<b>K</b> K = includes all required Splice plates with Bolts and nuts	<b>RI or RO</b> RI = Rail In RO = Rail Out (see Rail In note)	<b>PC-COL</b> PC-COL = paint Painted finish to Kounis standard colour range
NOTE: Rail In Ladder (RI) is a Kounis standard and will not show in a supply code. All Rail Out ladder will have a RO suffix shown in all supply codes.		ORDERING EXAMPLE SHOWN: 3/50 Cable Ladder 150 mm wide x 6 metre HDG c/w Splice Plates Bolts and Nuts. Painted Finish to specification colour.				

# Cable Ladder 3/50 Fittings



## Standard Fitting Radius

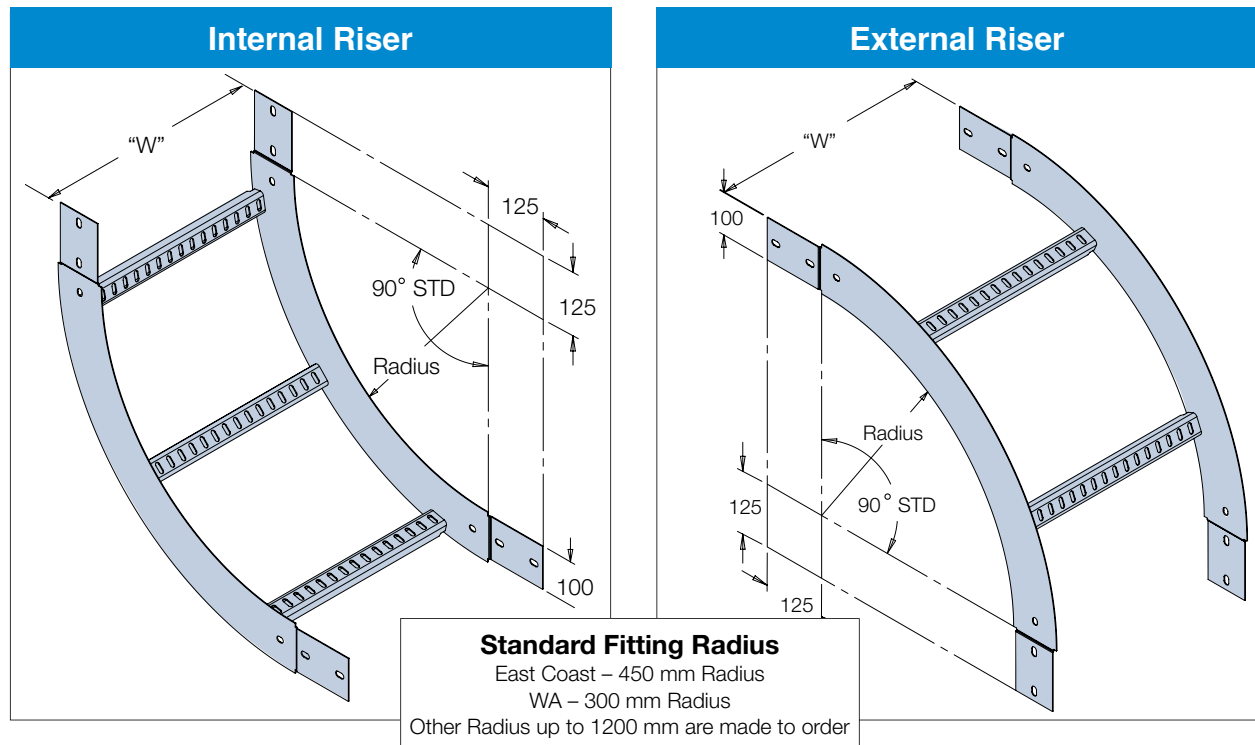
East Coast – 450 mm Radius  
WA – 300 mm Radius  
Other Radius up to 1200 mm are made to order

## When Ordering

Range	Type	Wide	Material	Fastenings	Rail Direction	Radius	Finish
<b>3C</b> 3C = 3/50 100 mm High Side 1.6 mm thk.	<b>B</b> B = Bend 90° C = Cross Equal (see Ordering note)	<b>15</b> 15 = 150 mm 30 = 300 mm 45 = 450 mm 60 = 600 mm 75 = 750 mm 90 = 900 mm	<b>H</b> H = Mild Steel Hot Dip Galv S = 316 Stainless Steel A = Aluminium	<b>K</b> K = includes all required Bolts and Nuts	<b>RI or RO</b> RI = Rail In RO = Rail Out (See Rail In note)	<b>3</b> 3 = 300 mm 4 = 450mm 6 = 600 mm	<b>PC-COL</b> PC-COL = paint Painted finish to Kounis standard colour range
<p>NOTE: Rail In Ladder (RI) is a Kounis standard and will not show in a supply code. All Rail Out ladder will have a RO suffix shown in all supply codes.</p> <p>ORDERING EXAMPLE SHOWN: 3/50 Cable Ladder 90° Bend 150 mm wide HDG 300 mm Radius c/w Bolts and Nuts. Painted Finish to specification colour.</p> <p>Notes: 45, 30 &amp; 60° option shown after width (e.g.: 1545) code for 150 mm 45° Bend.</p> <p>Unequal Cross made to order (eg: W1-15 x W2-30 x W3-15 x W4-30) code for alternative 15301530</p>							

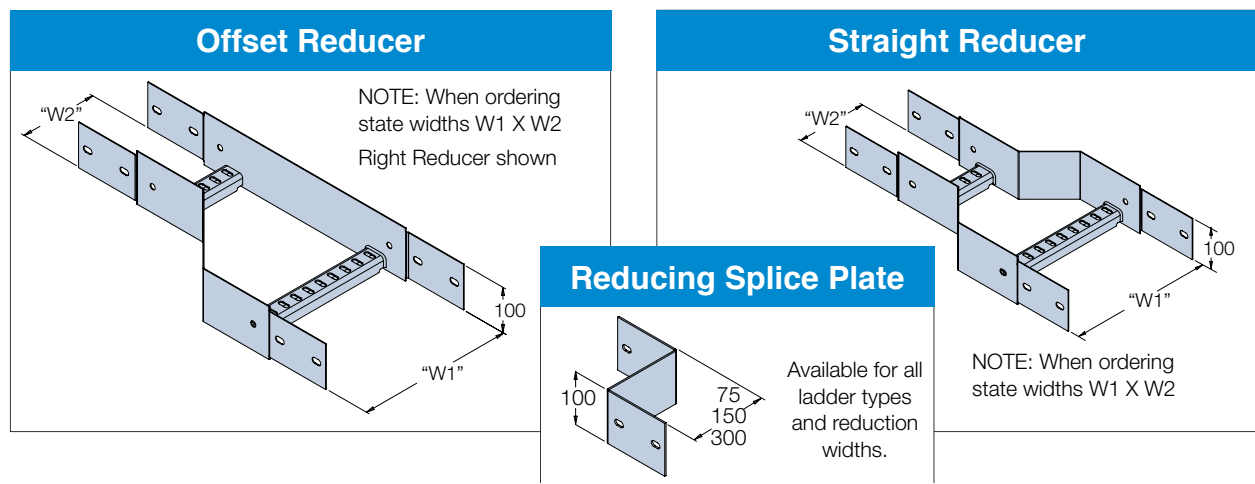
E.&O.E.

## Cable Ladder 3/50 Fittings



### When Ordering

Range	Type	Wide	Material	Fastenings	Rail Direction	Radius	Finish
<b>3C</b> 3C = 3/50 100mm High Side 1.6mm thk	<b>RI</b> RI = Internal Riser 90° RX=External Riser 90° (see Ordering note)	<b>15</b> 15 = 150 mm 30 = 300 mm 45 = 450 mm 60 = 600 mm 75 = 750 mm 90 = 900 mm	<b>H</b> H = Mild Steel Hot Dip Galv S = 316 Stainless Steel A = Aluminium	<b>K</b> K = includes all required Bolts and Nuts	<b>RI or RO</b> RI = Rail In RO = Rail Out (See Rail In note)	<b>3</b> 3 = 300 mm 4 = 450mm 6 = 600 mm	<b>PC-COL</b> PC-COL = paint Painted finish to Kounis standard colour range
<p>NOTE: Rail In Ladder (RI) is a Kounis standard and will not show in a supply code. All Rail Out ladder will have a RO suffix shown in all supply codes.</p> <p>ORDERING EXAMPLE SHOWN: 3/50 Cable Ladder 90° Internal Riser 150 mm wide HDG 300 mm Radius c/w Bolts and Nuts. Painted Finish to specification colour.</p> <p>NOTE: 45, 30 &amp; 60° option shown after size (e.g.: 1545) code for alternative 150 mm 45° Riser.</p>							



### When Ordering

Range	Type	Wide	Material	Fastenings	Rail Direction	Finish
<b>3C</b> 3C = 3/50 100 mm High Side 1.6 mm thk.	<b>SR</b> SR = Straight Reducer RR = Right Reducer LR = Left Reducer PR = Reducing Splice Plate (75-150-300 mm) (See Ordering note)	<b>3015</b> 3015 = 300 to 150 mm 4530 = 450 to 300 mm 6045 = 600 to 450 mm 7560 = 750 to 600 mm 9075 = 900 to 750 mm	<b>H</b> H = Mild Steel Hot Dip Galv S = 316 Stainless Steel A = Aluminium	<b>K</b> K = includes all required Bolts and nuts	<b>RI or RO</b> RI = Rail In RO = Rail Out (See Rail In note)	<b>PC-COL</b> PC-COL = paint Painted finish to Kounis standard colour range
<p>NOTE: Rail In Ladder (RI) is a Kounis standard and will not show in a supply code. All Rail Out ladder will have a RO suffix shown in all supply codes.</p> <p>ORDERING EXAMPLE SHOWN: 3/50 Cable Ladder Straight Reducer 300 to 150 mm wide HDG c/w Bolts and Nuts. Painted Finish to specification colour.</p>						

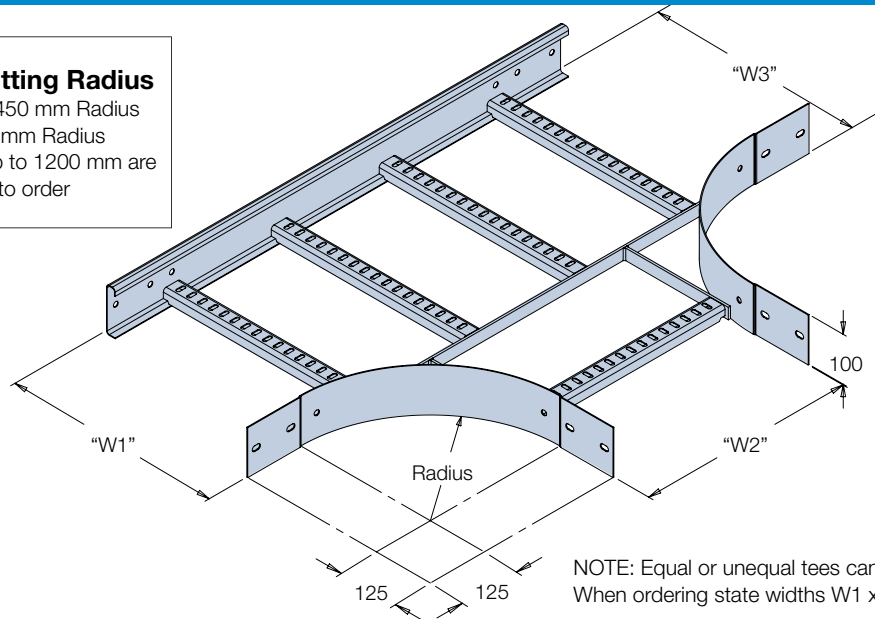
E.&O.E.

# Cable Ladder 3/50 Fittings

## Rail In Tee 3/50

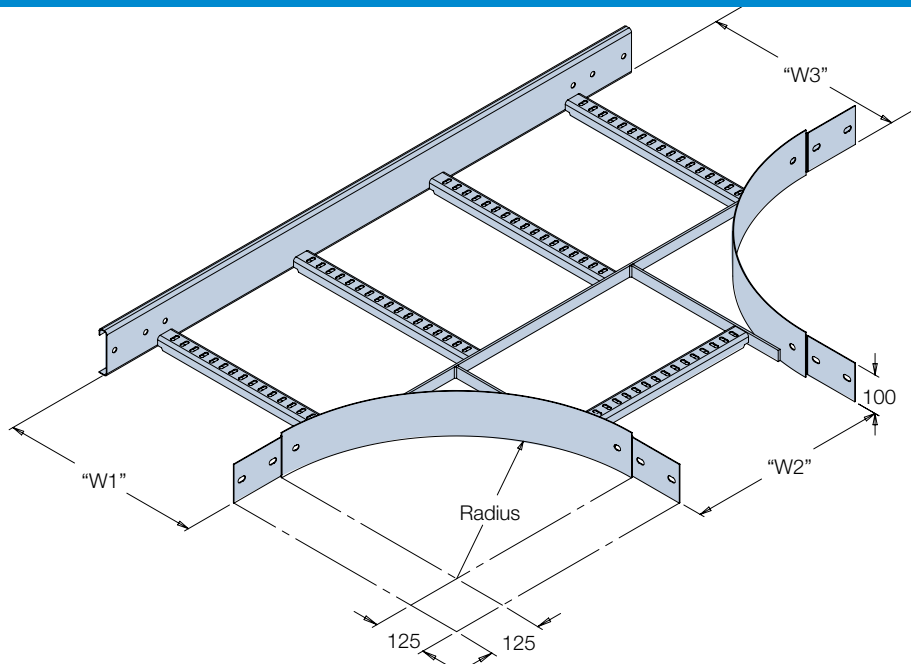
### Standard Fitting Radius

East Coast – 450 mm Radius  
WA – 300 mm Radius  
Other Radius up to 1200 mm are made to order



NOTE: Equal or unequal tees can be supplied.  
When ordering state widths W1 x W2 x W3

## Rail Out Tee 3/50



## When Ordering

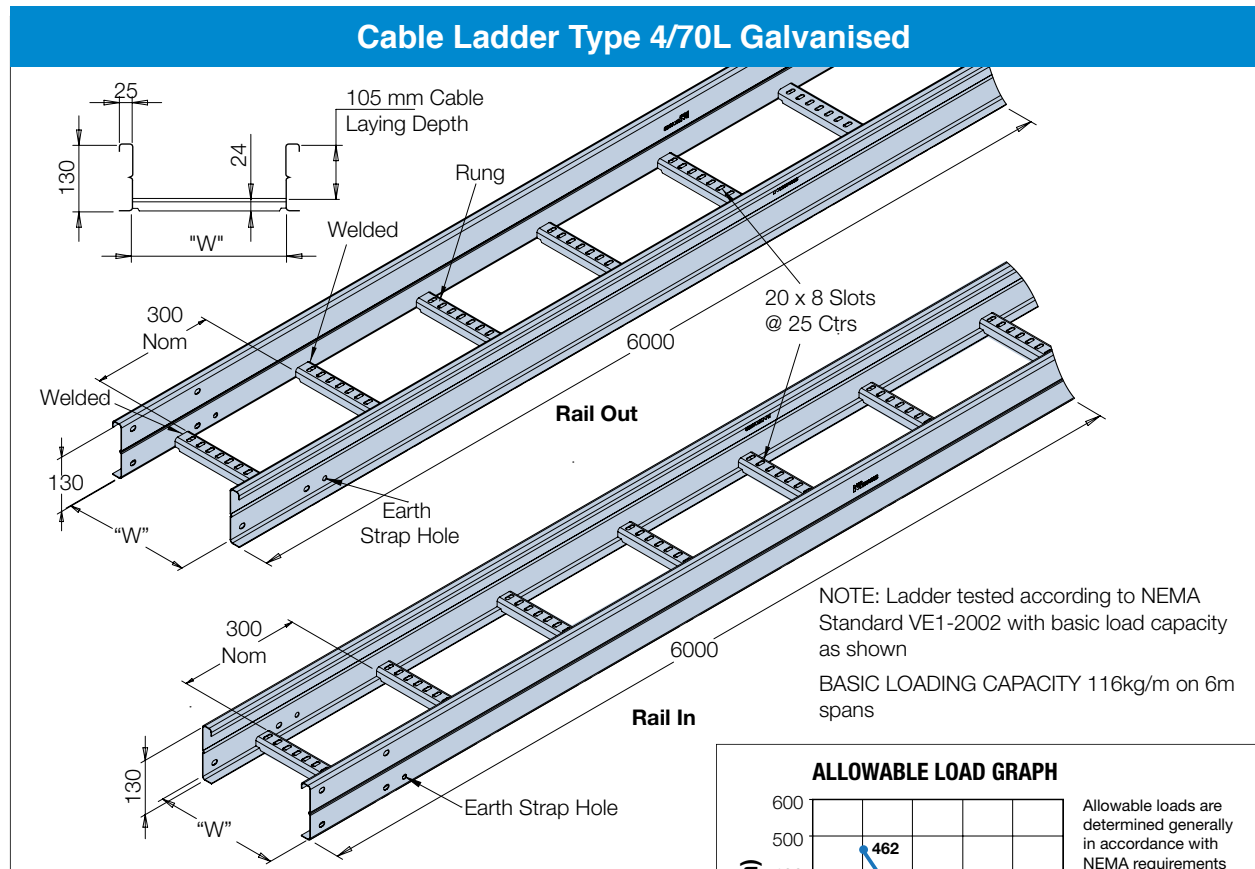
Range	Type	Wide	Material	Fastenings	Rail Direction	Radius	Finish
<b>3C</b> 3C = 3/50 100 mm High Side 1.6 mm thk	<b>T</b> T = Tee Equal (see Ordering note)	15 = 150 mm 30 = 300 mm 45 = 450 mm 60 = 600 mm 75 = 750 mm 90 = 900 mm	H = Mild Steel Hot Dip Galv S = 316 Stainless Steel A = Aluminium	<b>K</b> K = Includes all required Bolts and Nuts	<b>RI or RO</b> RI = Rail In RO = Rail Out (see Rail In note)	<b>3</b> 3 = 300 mm 4 = 450 mm 6 = 600 mm	<b>PC-COL</b> PC-COL= paint Painted finish to Kounis standard colour range
<p>NOTE: Rail In Ladder (RI) is a Kounis standard and will not show in a supply code. All Rail Out ladder will have a RO suffix shown in all supply codes.</p> <p>ORDERING EXAMPLE SHOWN: 3/50 Cable Ladder Equal Tee 150 mm wide HDG 300 mm Radius c/w Bolts and Nuts. Painted Finish to specification colour.</p> <p>NOTE: Unequal Tee option made to order (eg:W1-15 x W2-30 x W3-15) code for alternative 153015.</p>							

E.&O.E.



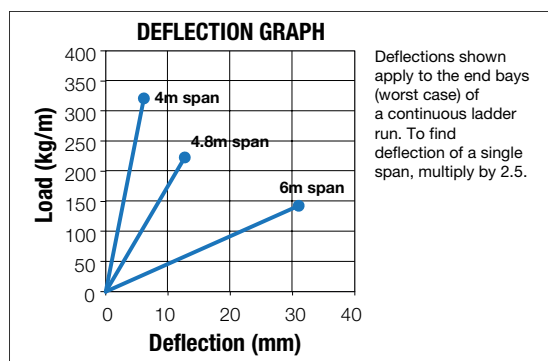
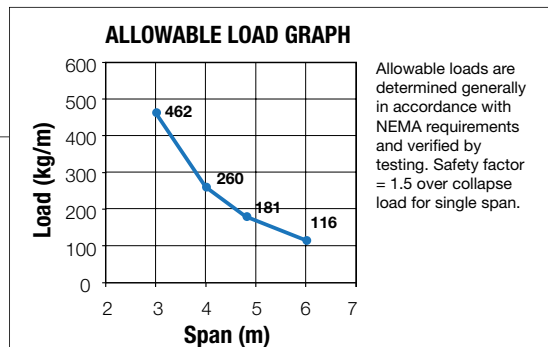
# Cable Ladder Heavy Duty Type 4/70L 20B

## 1.6 mm Steel Galvanised



### Specification

<b>Class Designation:</b>	Cable ladder Heavy Duty type 4/70L
<b>Material:</b>	Steel sheet.
<b>Finish:</b>	Hot dipped galvanised after fabrication. AS/ NZS 4680 i.e. 390 gm/m <sup>2</sup> zinc, approx. 55 µm.
<b>Rung Spacing:</b>	300 mm spacings with slotted rungs standard.
<b>Inside Depth:</b>	105 mm cable laying depth.
<b>Stock Length:</b>	6000 mm standard, joining together by full strength splice plates.
<b>Stock Widths:</b>	150 mm, 300 mm, 450 mm & 600 mm standard.
<b>Fittings:</b>	A full range of fittings are available e.g bends, risers, tees, crosses & reducers.
<b>Radius:</b>	300 mm radius standard for rail in. 450 mm radius standard for rail out. Other radii available by request.
<b>Accessories:</b>	Flat or peak covers available for ladders & fittings. Barrier strips. Hold down clamps.



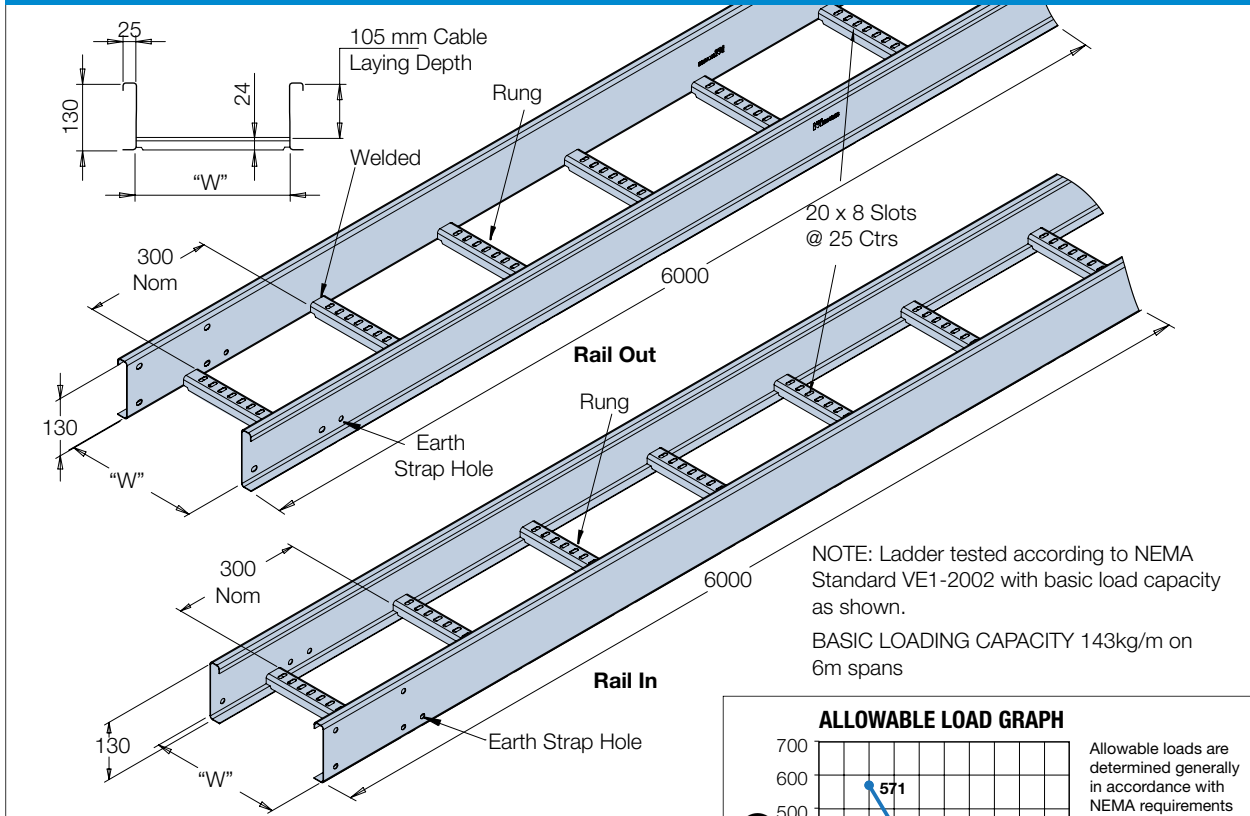
### When Ordering

Range	Type	Wide	Std.Finish	Fastenings	Rail Direction	Finish
4CL = 4/70L 130 mm High Side 1.6 mm Gauge	L = Straight 6 metre Length	15 15 = 150 mm 30 = 300 mm 45 = 450 mm 60 = 600 mm 75 = 750 mm 90 = 900 mm	H = Hot Dip Galv	K = includes all required Splice plates with Bolts and Nuts	RI or RO RI = Rail In RO = Rail Out (see Rail In note)	PC-COL PC-COL = paint Painted finish to Kounis standard colour range
NOTE: Rail In Ladder (RI) is a Kounis standard and will not show in a supply code. All Rail Out ladder will have a RO suffix shown in all supply codes.		ORDERING EXAMPLE SHOWN: 4/70L Cable Ladder 150 mm wide x 6 metre HDG c/w Splice Plates Bolts and Nuts. Painted Finish to specification colour.				

E.&O.E.

# Cable Ladder Heavy to Extra Heavy Duty Type 4/70 20B 2.0 mm Steel Galvanised

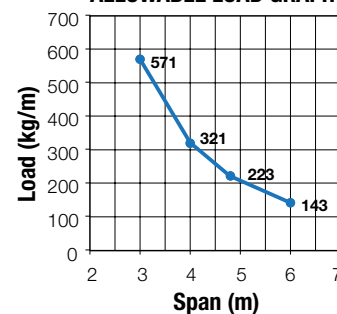
## Cable Ladder Type 4/70 Galvanised



## Specification

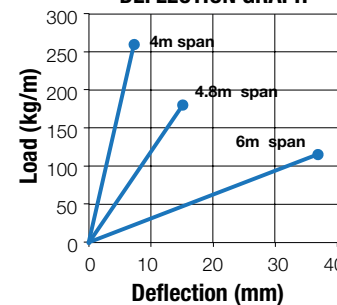
<b>Class Designation:</b>	Cable ladder heavy to extra heavy duty type 4/70
<b>Material:</b>	Steel sheet.
<b>Finish:</b>	Hot dipped galvanised after fabrication. AS/NZS 4680 i.e. 390 gm/m <sup>2</sup> zinc, approx. 55 µm.
<b>Rung Spacing:</b>	300 mm spacings with slotted rungs standard.
<b>Inside Depth:</b>	105 mm cable laying depth.
<b>Stock Length:</b>	6000 mm standard, joining together by full strength splice plates.
<b>Stock Widths:</b>	150 mm, 300 mm, 450 mm & 600 mm standard.
<b>Fittings:</b>	A full range of fittings are available e.g bends, risers, tees, crosses & reducers.
<b>Radius:</b>	300 mm radius standard for rail in. 450 mm radius standard for rail out. Other radii available by request.
<b>Accessories:</b>	Flat or peak covers available for ladders & fittings. Barrier strips. Hold down clamps.

### ALLOWABLE LOAD GRAPH



Allowable loads are determined generally in accordance with NEMA requirements and verified by testing. Safety factor = 1.5 over collapse load for single span.

### DEFLECTION GRAPH



Deflections shown apply to the end bays (worst case) of a continuous ladder run. To find deflection of a single span, multiply by 2.5.

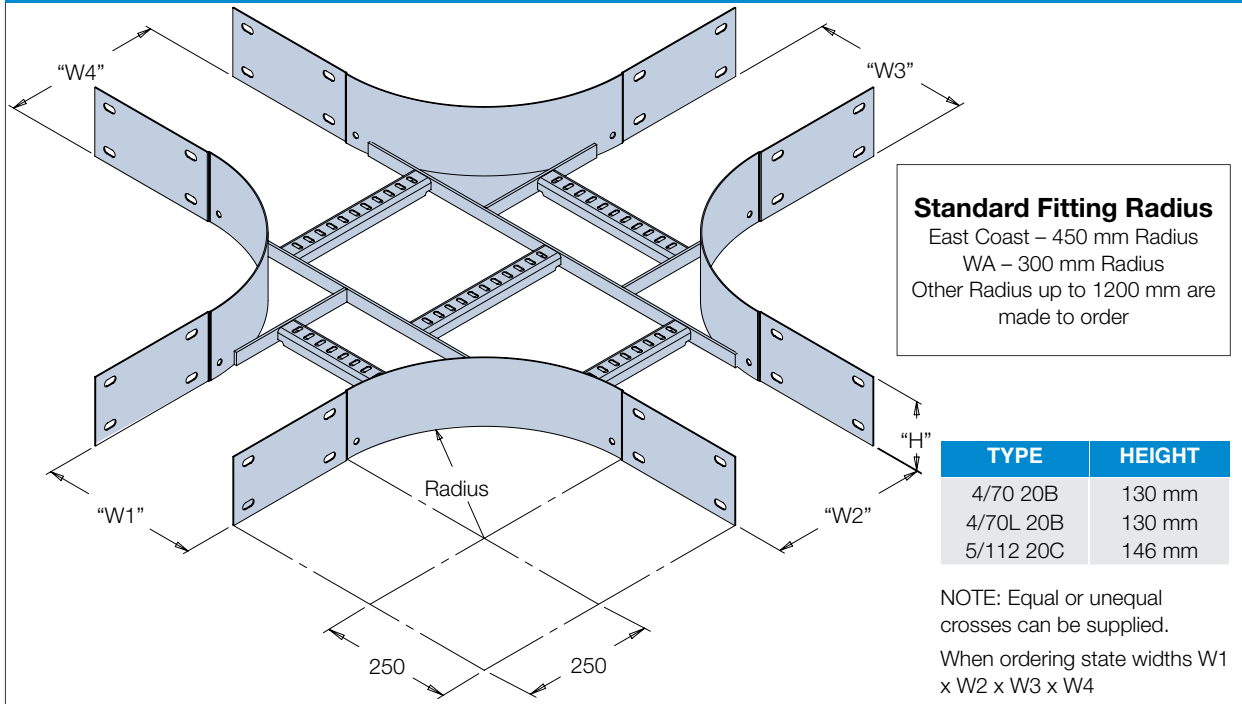
## When Ordering

Range	Type	Wide	Std.Finish	Fastenings	Rail Direction	Finish
<b>4C</b> 4C = 4/70 130 mm High Side 2.0 mm Gauge	<b>L</b> L = Straight 6 metre Length	<b>15</b> 15 = 150 mm 30 = 300 mm 45 = 450 mm 60 = 600 mm 75 = 750 mm 90 = 900 mm	<b>H</b> H = Hot Dip Galv	<b>K</b> K = includes all required Splice plates with Bolts and Nuts	<b>RI or RO</b> RI = Rail In RO = Rail Out (see Rail In note)	<b>PC-COL</b> PC-COL = paint Painted finish to Kounis standard colour range
NOTE: Rail In Ladder (RI) is a Kounis standard and will not show in a supply code. All Rail Out ladder will have a RO suffix shown in all supply codes.						
ORDERING EXAMPLE SHOWN: 4/70 Cable Ladder 150 mm wide x 6 metre HDG c/w Splice Plates Bolts and Nuts. Painted Finish to specification colour.						

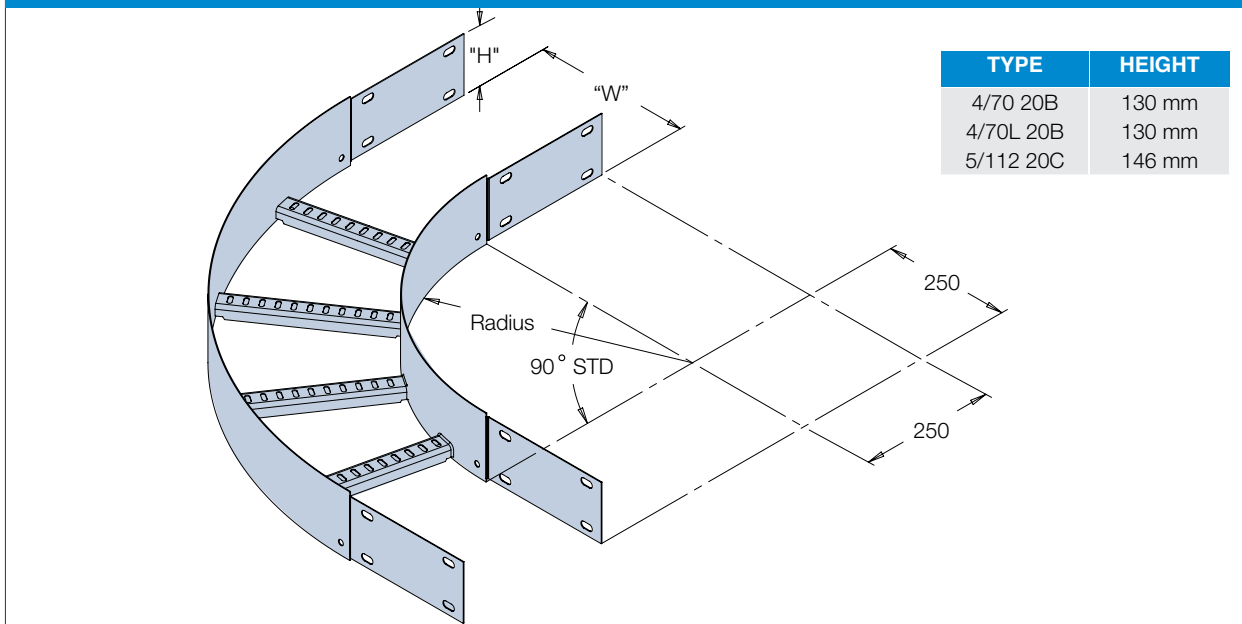
E.&O.E.

## Cable Ladder 4/70L, 4/70 and 5/112 Fittings

### Cross 4/70L, 4/70 & 5/112



### Bend 4/70L, 4/70 & 5/112



### When Ordering

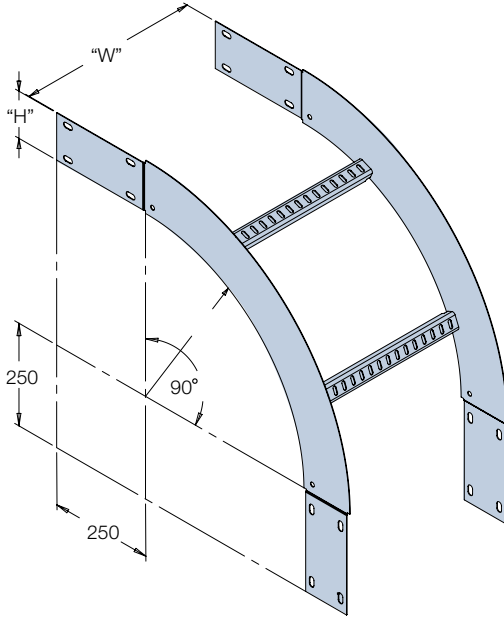
Range	Type	Wide	Material	Fastenings	Rail Direction	Radius	Finish
<b>4C</b> 4C = 4/70 130 mm High 2.0 mm thk. 5C = 5/112 146 mm High 2.0 mm thk. 4C = 4/70L 130 mm High 1.6 mm thk	<b>B</b> B = Bend 90° C = Cross Equal 4/70 & 5/112 BL= Bend 90° CL = Cross Equal 4/70L and stainless (see Ordering note)	<b>15</b> 15 = 150 mm 30 = 300 mm 45 = 450 mm 60 = 600 mm 75 = 750 mm 90 = 900 mm	<b>H</b> H = Mild Steel Hot Dip Galv S = 316 Stainless Steel A = Aluminium	<b>K</b> K = Includes all required Bolts and Nuts	<b>RI or RO</b> RI = Rail In RO = Rail Out (see Rail In note)	<b>3</b> 3 = 300 mm 4 = 450 mm 6 = 600 mm	<b>PC-COL</b> PC-COL= paint Painted finish to Kounis standard colour range
NOTE: Rail In Ladder (RI) is a Kounis standard and will not show in a supply code. All Rail Out ladder will have a RO suffix shown in all supply codes.							
ORDERING EXAMPLE SHOWN: 4/70 Cable Ladder 90° Bend 150 mm wide HDG 300 mm Radius c/w Bolts and Nuts. Painted Finish to specification colour. Note: 45, 30 & 60° option shown after size (e.g.: 1545) code for alternative 150mm 45° Riser.							

E.&O.E.

# Cable Ladder 4/70L, 4/70 and 5/112 Fittings

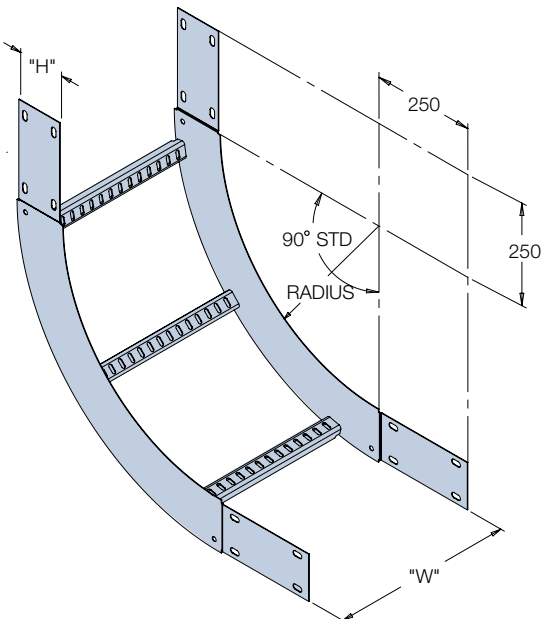
**External Riser 4/70L, 4/70 & 5/112**

**Standard Fitting Radius**  
 East Coast – 450 mm Radius  
 WA – 300 mm Radius  
 Other Radius up to 1200 mm are made to order



TYPE	HEIGHT
4/70 20B	130 mm
4/70L 20B	130 mm
5/112 20C	146 mm

**Internal Riser 4/70L, 4/70 & 5/112**



TYPE	HEIGHT
4/70 20B	130 mm
4/70L 20B	130 mm
5/112 20C	146 mm

## When Ordering

Range	Type	Wide	Material	Fastenings	Rail Direction	Radius	Finish
<b>4C</b>	<b>RI</b>	<b>15</b>	<b>H</b>	<b>K</b>	<b>RI &amp; RO</b>	<b>3</b>	<b>PC-COL</b>
4C = 4/70 130 mm High 2.0 mm thk.	RI = Internal Riser 90° RX=External Riser 90°	15 = 150 mm 30 = 300 mm 45 = 450 mm 60 = 600 mm 75 = 750 mm 90 = 900 mm	H = Mild Steel Hot Dip Galv S = 316 Stainless Steel A = Aluminium	K = Includes all required Bolts and Nuts	RI = Rail In RO = Rail Out (see Rail In note)	3 = 300 mm 4 = 450 mm 6 = 600 mm	PC-COL= paint Painted finish to Kounis standard colour range
5C = 5/112 146 mm High 2.0 mm thk.	4/70 & 5/112 RIL = Internal Riser 90° RXL = External Riser 90°						
4C = 4/70L 130 mm High 1.6 mm thk	470L and stainless (see Ordering note)						
NOTE: Rail In Ladder (RI) is a Kounis standard and will not show in a supply code. All Rail Out ladder will have a RO suffix shown in all supply codes.			ORDERING EXAMPLE SHOWN: 4/70 Cable Ladder 90° Internal Riser 150 mm wide HDG 300 mm Radius c/w Bolts and Nuts. Painted Finish to specification colour. Note: 45, 30 & 60° option shown after size (e.g.: 1545) code for alternative 150mm 45° Riser.				

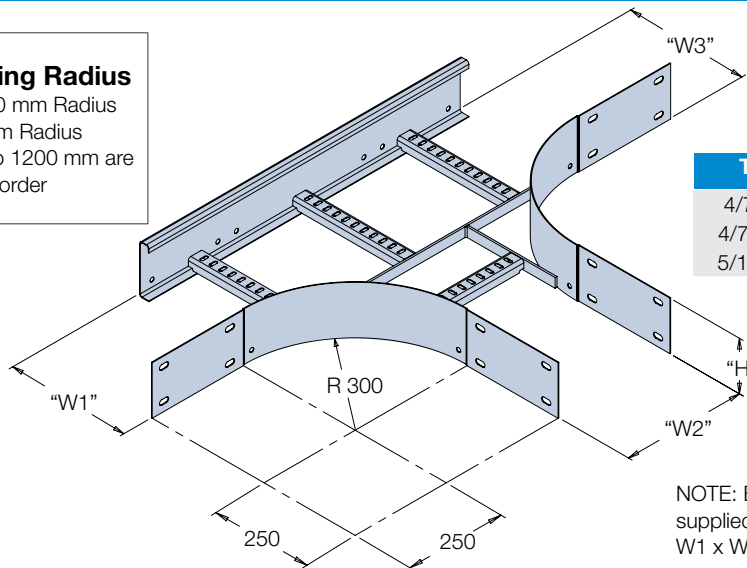
E.&O.E.

## Cable Ladder 4/70L, 4/70 and 5/112 Fittings

### Rail In 4/70L, 4/70 & 5/112 Tee

#### Standard Fitting Radius

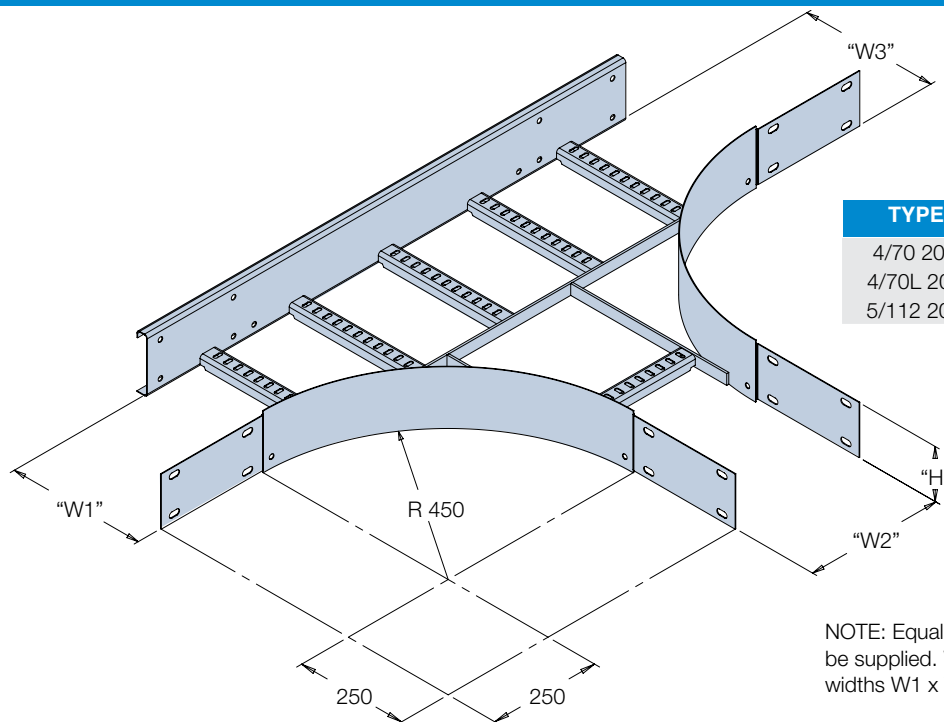
East Coast – 450 mm Radius  
WA – 300 mm Radius  
Other Radius up to 1200 mm are made to order



TYPE	HEIGHT
4/70 20B	130 mm
4/70L 20B	130 mm
5/112 20C	146 mm

NOTE: Equal or unequal tees can be supplied. When ordering state widths W1 x W2 x W3

### Rail Out 4/70L, 4/70 & 5/112 Tee



TYPE	HEIGHT
4/70 20B	130 mm
4/70L 20B	130 mm
5/112 20C	146 mm

NOTE: Equal or unequal tees can be supplied. When ordering state widths W1 x W2 x W3

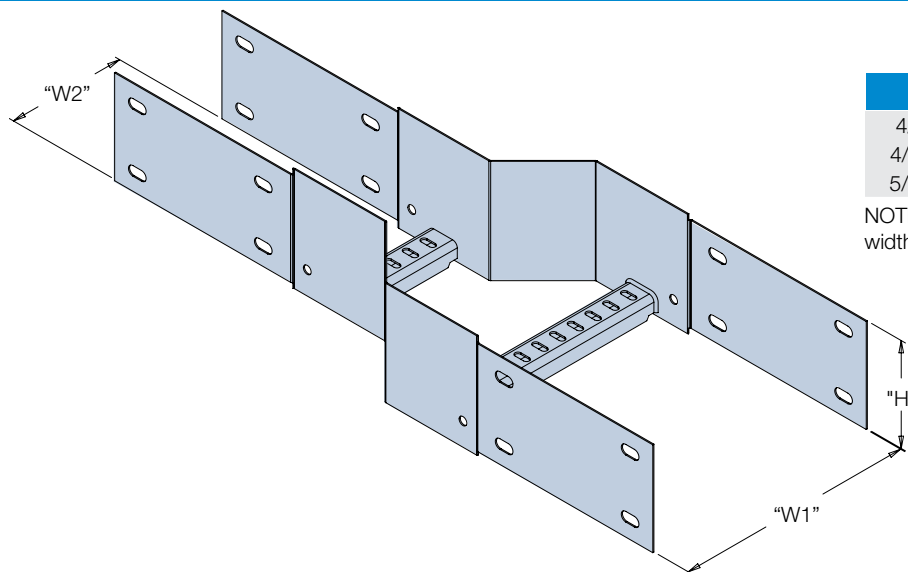
### When Ordering

Range	Type	Wide	Material	Fastenings	Rail Direction	Radius	Finish
<b>4C</b> 4C = 4/70 130 mm High 2.0 mm thk. 5C = 5/112 146 mm High 2.0 mm thk. 4C = 4/70L 130 mm High 1.6 mm thk	<b>T</b> T = Tee Equal 4/70 & 5/112 TL = Tee Equal RO 4/70L and stainless (see Ordering note)	<b>15</b> 15 = 150 mm 30 = 300 mm 45 = 450 mm 60 = 600 mm 75 = 750 mm 90 = 900 mm	<b>H</b> H = Mild Steel Hot Dip Galv S = 316 Stainless Steel A = Aluminium	<b>K</b> K = Includes all required Bolts and Nuts	<b>RI or RO</b> RI = Rail In RO = Rail Out (see Rail In note)	<b>3</b> 3 = 300 mm 4 = 450 mm 6 = 600 mm	<b>PC-COL</b> PC-COL= paint Painted finish to Kounis standard colour range
NOTE: Rail In Ladder (RI) is a Kounis standard and will not show in a supply code. All Rail Out ladder will have a RO suffix shown in all supply codes.		ORDERING EXAMPLE SHOWN: 4/70 Cable Ladder Equal Tee 150 mm wide HDG 300 mm Radius c/w Bolts and Nuts. Painted Finish to specification colour. NOTE: Unequal Tees made to order (e.g.: W1-15 x W2-30 x W3-15) code for alternative size 153015.					

E.&O.E.

## Cable Ladder 4/70L, 4/70 and 5/112 Fittings

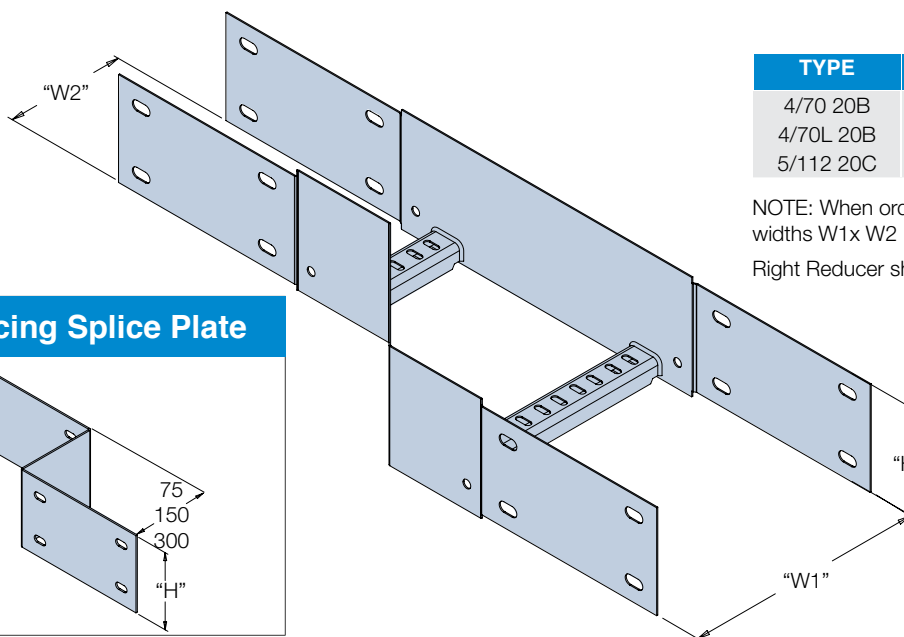
### Straight Reducer 4/70L, 4/70 & 5/112



TYPE	HEIGHT
4/70 20B	130 mm
4/70L 20B	130 mm
5/112 20C	146 mm

NOTE: When ordering state widths W1 x W2

### Offset Reducer 4/70L, 4/70 & 5/112

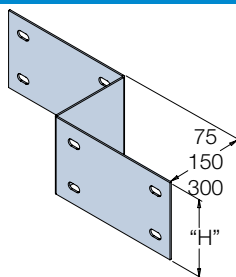


TYPE	HEIGHT
4/70 20B	130 mm
4/70L 20B	130 mm
5/112 20C	146 mm

NOTE: When ordering state widths W1x W2

Right Reducer shown

### Reducing Splice Plate



### When Ordering

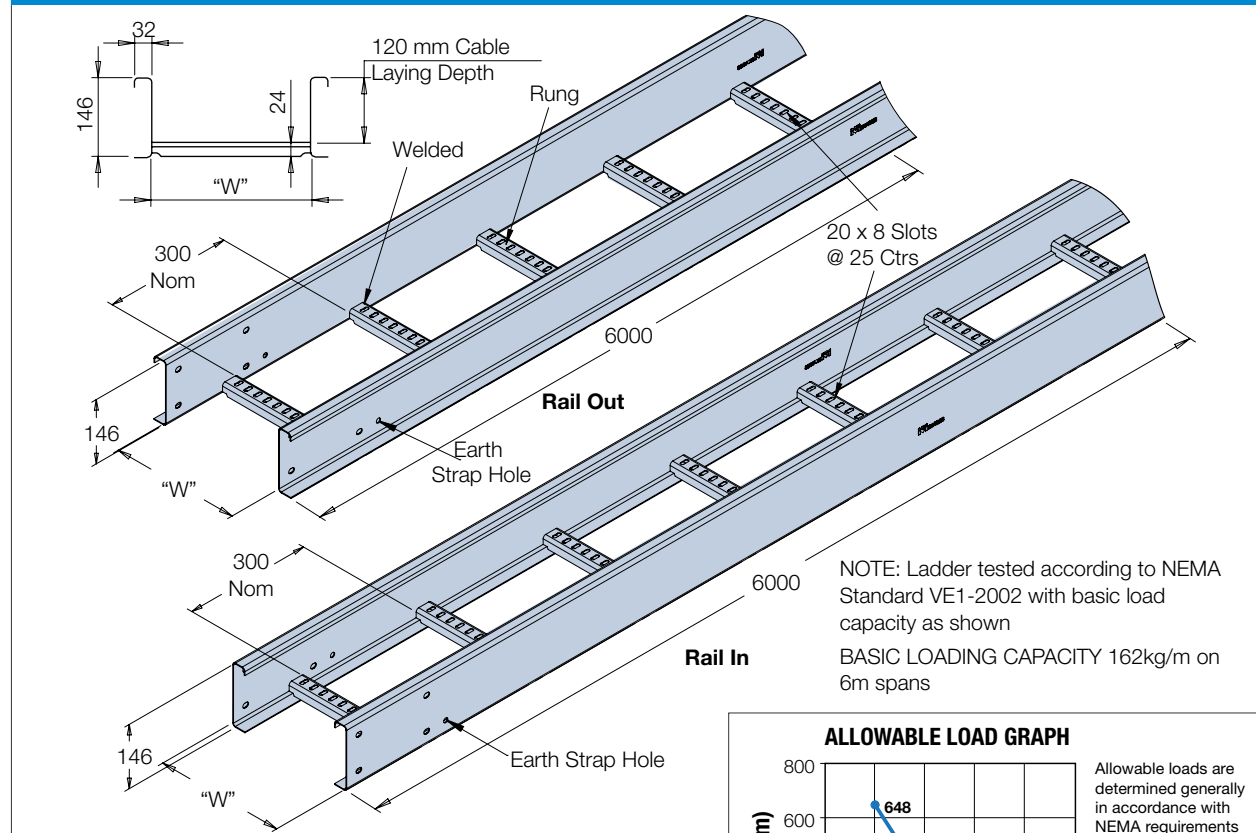
Range	Type	Wide	Material	Fastenings	Rail Direction	Finish
<b>4C</b> 4C = 4/70 130 mm High 2.0 mm thk. 5C = 5/112 146 mm High 2.0 mm thk. 4C = 4/70L 130 mm High 1.6 mm thk	<b>SR</b> SR = Straight Reducer RR = Right Reducer LR = Left Reducer PR = Reducing Splice Plate (75-150-300 mm) <b>470 and 5/112</b> SRL = Straight Reducer RRL = Right Reducer LRL = Left Reducer <b>470L and stainless</b> (see Ordering note)	<b>3015</b> 3015 = 300 to 150 mm 4530 = 450 to 300 mm 6045 = 600 to 450 mm 7560 = 750 to 600 mm 9075 = 900 to 750 mm	<b>H</b> H = Mild Steel Hot Dip Galv Painted finish to S= 316 Stainless Steel A = Aluminium	<b>K</b> K = includes all required Bolts and nuts	<b>RI or RO</b> RI = Rail In RO = Rail Out (See Rail In note)	<b>PC-COL</b> PC-COL = paint Painted finish to Kounis standard colour range
NOTE: Rail In Ladder (RI) is a Kounis standard and will not show in a supply code. All Rail Out ladder will have a RO suffix shown in all supply codes.		ORDERING EXAMPLE SHOWN: 4/70 Cable Ladder Straight Reducer 300 to 150 mm wide HDG c/w Bolts and Nuts. Painted Finish to specification colour.				

E.&O.E.



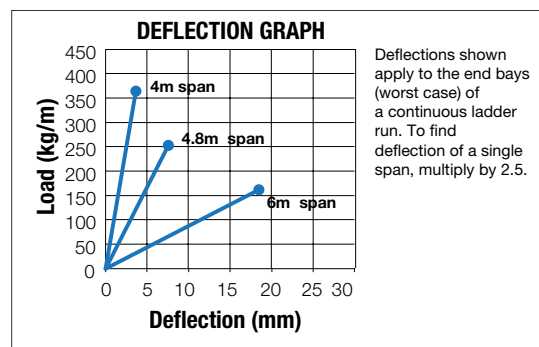
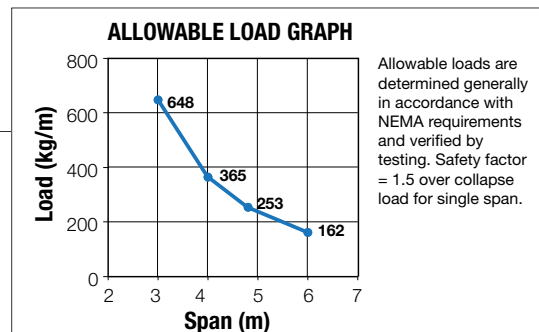
# Cable Ladder Extra Heavy Duty Type 5/112 20C 2 mm Steel Galvanised

## Cable ladder Type 5/112 Galvanised



### Specification

<b>Class Designation:</b>	Cable ladder extra heavy duty type 5/112.
<b>Material:</b>	Steel sheet.
<b>Finish:</b>	Hot dipped galvanised after fabrication to AS/NZS 4680 ie 390 gm/m <sup>2</sup> zinc, approx. 55 µm.
<b>Rung Spacing:</b>	300 mm spacings with slotted rungs standard.
<b>Inside Depth:</b>	120 mm cable laying depth.
<b>Stock Length:</b>	6000 mm standard, joining together by full strength splice plates.
<b>Stock Widths:</b>	150 mm, 300 mm, 450 mm & 600 mm standard.
<b>Fittings:</b>	A full range of fittings are available e.g bends, risers, tees, crosses & reducers.
<b>Radius:</b>	300 mm radius standard for rail in. 450 mm radius standard for rail out. Other radii available by request.
<b>Accessories:</b>	Flat or peak covers available for ladders & fittings. Barrier strips. Hold down clamps.



### When Ordering

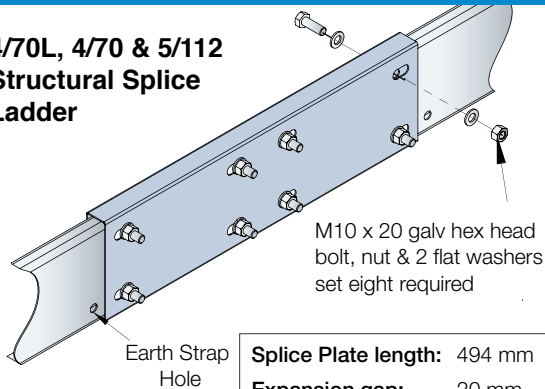
Range	Type	Wide	Material	Fastenings	Rail Direction	Finish
<b>5C</b> 5C = 5/112 146 mm High Side 2.0 mm Gauge	<b>L</b> L = Straight 6 metre Length	<b>15</b> 15 = 150 mm 30 = 300 mm 45 = 450 mm 60 = 600 mm 75 = 750 mm 90 = 900 mm	<b>H</b> H = Hot Dip Galv	<b>K</b> K = Includes all required Splice plates with Bolts and nuts	<b>RI or RO</b> RI = Rail In RO = Rail Out (See Rail In note)	<b>PC-COL</b> PC-COL = paint Painted finish to Kounis standard colour range
NOTE: Rail In Ladder (RI) is a Kounis standard and will not show in a supply code. All Rail Out ladder will have a RO suffix shown in all supply codes.		ORDERING EXAMPLE SHOWN: 5/112 Cable Ladder 150 mm wide x 6 metre HDG c/w Splice Plates Bolts and Nuts. Painted Finish to specification colour.				



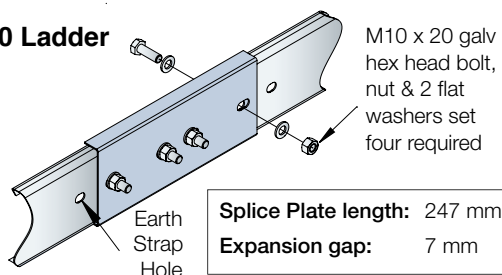
## Cable Ladder Splice Plates

### Rail In Splice Plates

#### 4/70L, 4/70 & 5/112 Structural Splice Ladder

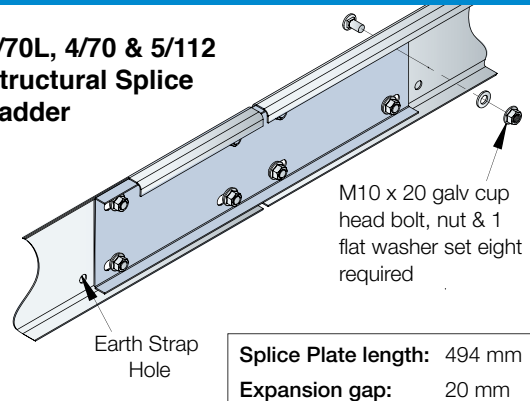


#### 3/50 Ladder

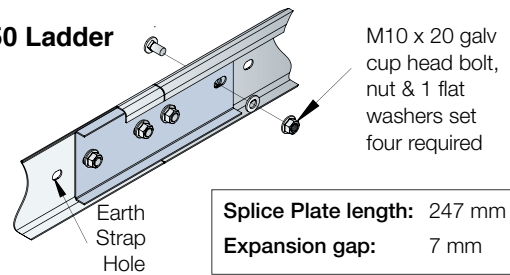


### Rail Out Splice Plates

#### 4/70L, 4/70 & 5/112 Structural Splice Ladder



#### 3/50 Ladder



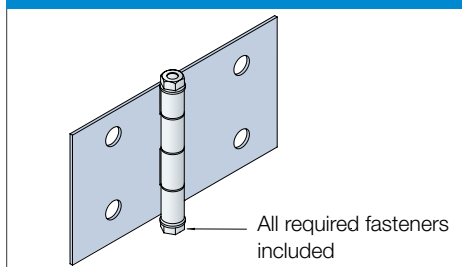
Bolting of straight section cable ladder to be as NEMA-VE2-2006 Cl.4.3 and with the torque settings shown.

Metric Bolts Class 5.8	
Size	N-m
M8 x 1.25	14-16
M10 x 1.5	26-33
M12 x 1.78	45-58

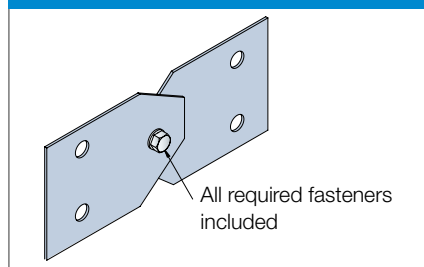
### When Ordering

Range	Type	Material	Fastenings	Rail Direction	Finish
<b>3C</b>	<b>LP</b>	<b>H</b>	<b>K</b>	<b>RI or RO</b>	<b>PC-COL</b>
2C = 2/30 65 mm High Side 3C = 3/50 100 mm High Side 4C = 4/70 130 mm High Side 4CL = 4/70L 130 mm High x 1.6mm 5C = 5/112 146 mm High Side	LP = Straight Splice Plate	H = Mild Steel Hot Dip Galv S = 316 Stainless Steel A = Aluminium	K = includes all required Bolts and nuts	RI = Rail In RO = Rail Out See Rail In note	PC-COL = paint Painted finish to Kounis standard colour range
NOTE: Rail In Ladder (RI) is a Kounis standard and will not show in a supply code. All Rail Out ladder will have a RO suffix shown in all supply codes except 2/30 ladder.					
ORDERING EXAMPLE SHOWN: Ladder Splice Plate 3/50 HDG c/w Bolts and Nuts. Painted Finish to specification colour					

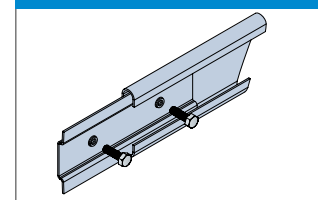
### Horizontal Hinge Splice Plate



### Verticle Hinge Splice Plate



### 2/30 Splice Plate



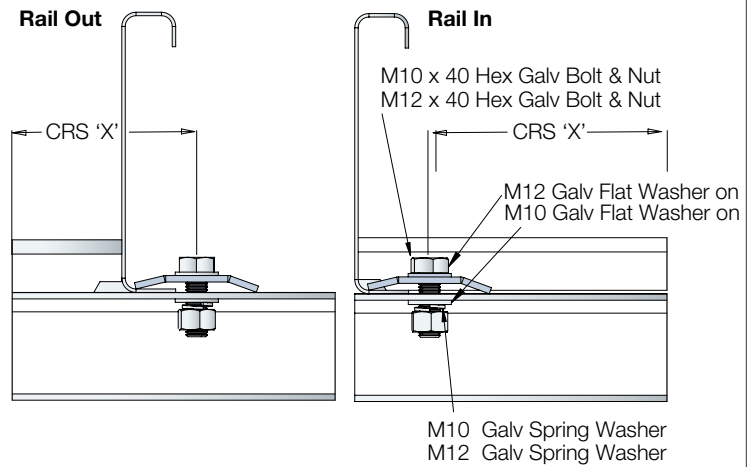
### When Ordering

Range	Type	Material	Fastenings	Finish
<b>2C</b>	<b>HP</b>	<b>H</b>	<b>K</b>	<b>PC-COL</b>
2C = 2/30 65 mm High Side 3C = 3/50 100 mm High Side 4-5C = 4/70 130 mm High Side and 5/112 146 mm High Side	HP = Horizontal Hinge Splice Plate VP = Vertical Hinge Splice Plate	H = Mild Steel Hot Dip Galv S = 316 Stainless Steel A = Aluminium	K = includes all required Bolts and nuts	PC-COL = paint Painted finish to Kounis standard colour

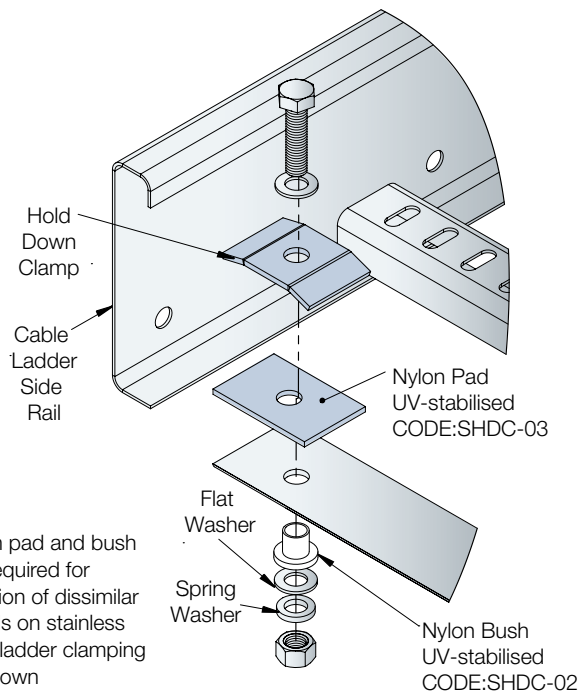
# Cable Ladder Hold Down Clamps

## Cable Ladder Hold Down Clamp Assembly

RAIL OUT	CYCLONIC	STANDARD	
WIDTH	CRS 'X'	CRS 'X'	
150 mm	224 mm	210 mm	RAIL OUT 3/50
300 mm	374 mm	360 mm	
450 mm	524 mm	510 mm	
600 mm	674 mm	660 mm	
150 mm	224 mm	214 mm	RAIL OUT 4/70
300 mm	374 mm	364 mm	
450 mm	524 mm	514 mm	
600 mm	674 mm	664 mm	
150 mm	230 mm	230 mm	RAIL OUT 5/112
300 mm	380 mm	380 mm	
450 mm	530 mm	530 mm	
600 mm	680 mm	680 mm	
RAIL IN	CYCLONIC	STANDARD	
WIDTH	CRS 'X'	CRS 'X'	
150mm	76mm	90mm	RAIL IN 3/50
300mm	226mm	240mm	
450mm	376mm	390mm	
600mm	526mm	540mm	
150mm	76mm	86mm	RAIL IN 4/70
300mm	226mm	236mm	
450mm	376mm	386mm	
600mm	526mm	536mm	
150mm	70mm	70mm	RAIL IN 5/112
300mm	220mm	220mm	
450mm	370mm	370mm	
600mm	520mm	520mm	



## Stainless Steel Cable Ladder Hold Down Assembly



## 2/30 Hold Down Clamp Assembly

M8 x 30 Galv Set Screw  
(Not Included)

CODE

2HDCH

Hold Down Clamp  
Hot Dip Galv

Spring Nut Galv.  
(Not Included)

## When Ordering

Range	Type	Finish
<b>HDC</b>	<b>S</b>	<b>H</b>
HDC = Square Hold Down Clamp	S = Standard 3 mm Thick 11 mm Ø C10 = Cyclonic 5 mm Thick 11 mm Ø C12 = Cyclonic 5 mm Thick 14 mm Ø BN10 = 40 mm Bolt, Nut & Washer M10 BN12 = 40 mm Bolt, Nut & Washer M12	H = Hot Dip Galv S = 316 Stainless Steel

ORDERING EXAMPLE SHOWN: Hold Down Clamp Standard 3 mm thick, 11 mm Ø Hot Dip Galvanised

NOTE: Fastening lengths are based on fixing to a 8mm maximum thickness. For other supports we would require details when ordering to ensure correct fastener length.

E.&O.E.

# Cable Ladder Barrier Strip & Earth Strap

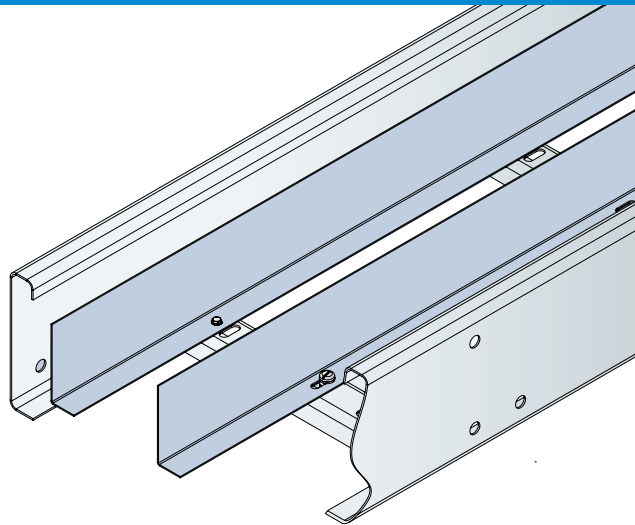
## Barrier Strip – Length 3 m

### Barrier Strip

Barrier Strip is supplied in 3 m lengths with the option of 1.0 mm thick Galvabond, 1.6 mm thick Hot Dip Galvanised Steel and 0.6 mm Stainless Steel (with safe edge). Supplied with plain type flange for tek screw fixing or alternatively can be slotted for bolts and nuts (hardware sold separately).

### Barrier Fixings Sold Separately

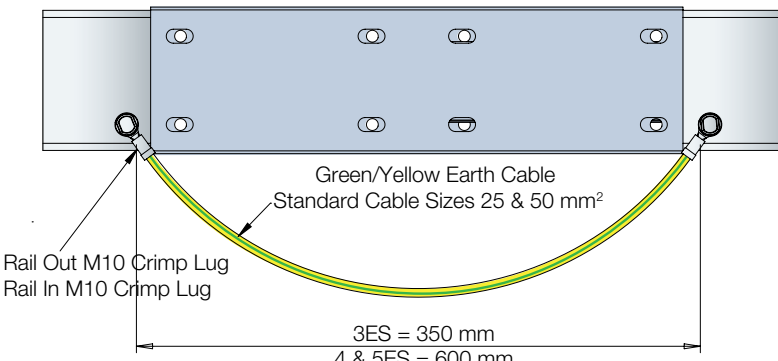
CODE	BARRIER FIXINGS 3 REQUIRED PER BARRIER
CSKH	Tek Galv – Tek Screw Hex 12-14 x 20 HDG
CSKS	Tek SS – Tek Screw Hex 12-14 x 20 SS
PHS0620H	Bolt Galv – Pan Head Screw M6 x 20 HDG
PHS0620S	Bolt SS – Pan Head Screw M6 x 20 SS
K3016H	Nut Galv – Channel Butterfly Nut M6 HDG
K3016S	Nut SS – Channel Butterfly Nut M6 SS



## When Ordering

Range	Type	Material	Finish	Fastenings
<b>4-5C</b> 2C = 2/30 65 mm High Side 3C = 3/50 100 mm High Side 4-5C = 4/70 130 mm High Side & 5/112 = 146 mm High Side	<b>ST</b> ST = Segregation Slotted Flange S = Solid Flange	<b>L</b> L = 0.6 mm Thick steel (N/A in Hot Dip Galv) M = 1.0 mm Thick Steel H = 1.6 mm Thick Steel	<b>G</b> G = Galvabond H = Hot Dip Galvanised S = Stainless Steel A = Aluminium	<b>K</b> K = Includes all required fixing screws and nuts

ORDERING EXAMPLE SHOWN: 4/70 Barrier Slotted Flange Light Duty Galvabond complete with fastenings.

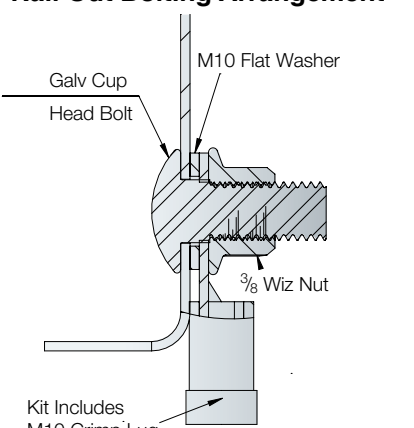


Green/Yellow Earth Cable  
Standard Cable Sizes 25 & 50 mm<sup>2</sup>

Rail Out M10 Crimp Lug  
Rail In M10 Crimp Lug

3ES = 350 mm  
4 & 5ES = 600 mm

### Rail Out Bolting Arrangement



Galv Cup  
Head Bolt  
M10 Flat Washer  
3/8 Wizz Nut  
Kit Includes M10 Crimp Lug

### EARTH STRAP KIT CODE

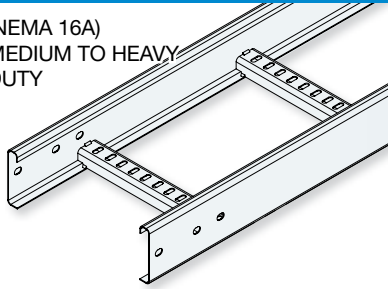
GALV	S/STEEL	GALV	S/STEEL	Fastenings – Rail In		Fastenings – Rail Out Galv		
CODE RAIL IN	CODE RAIL IN	CODE RAIL OUT	CODE RAIL OUT	CODE	Description Galv	CODE	Description Galv	QTY
3ESHK	3ESSK	3ESHROK	3ESSROK	HHS1025H	M10 x 25 Hex Galv Screw	CHB3818S	3/8 x 3/4 CupHd Galv Screw	2EA
4-5ESHK	4-5ESSK	4-5ESHROK	4-5ESSROK	HN10H	M10 Hex Galv Nut	HN10S	3/8 Galv Whizz Nut	2EA
4-5ESHK	4-5ESSK	4-5ESHROK	4-5ESSROK	FW10H	M10 Galv Flat Washer	FW10S	M10 Galv Flat Washer	2EA
				SW10H	M10 Galv Spring Washer	N/A	M10 Galv Spring Washer	2EA
NOTE: Kit comprises earth strap and fastenings as shown. Specify cable size in ordering code i.e. 4-5ES 50 HROK (50 mm <sup>2</sup> size). Kounis can supply 16, 25, 35, 50, 70 and 120 mm <sup>2</sup> earth straps.				<b>CODE</b>	<b>Description S/Steel</b>	<b>CODE</b>	<b>Description S/Steel</b>	<b>QTY</b>
				HHS1025S	M10 x 25 Hex SSteel Screw	HHS1025S	M10 x 25 Hex SSteel Screw	2EA
				HN10S	M10 Hex SSteel Nut	HN10S	M10 Hex SSteel Nut	2EA
				FW10S	M10 SSteel Flat Washer	FW10S	M10 SSteel Flat Washer	2EA
				SW10S	M10 SSteel Spring Washer	SW10S	M10 SSteel Spring Washer	2EA

E.&O.E.

## SECTION 4: Cable Ladder Stainless Steel & Aluminium

**Stainless Steel Type 3/50**

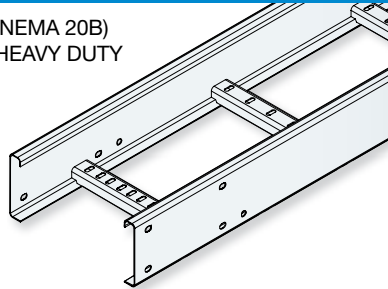
(NEMA 16A)  
MEDIUM TO HEAVY  
DUTY



> 4:3

**Stainless Steel Type 4/70L**

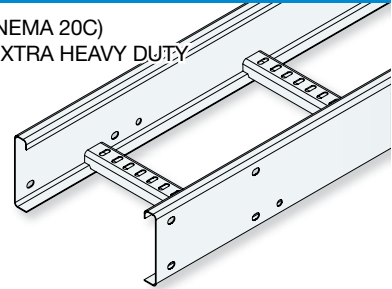
(NEMA 20B)  
HEAVY DUTY



> 4:4

**Stainless Steel Type 5/112**

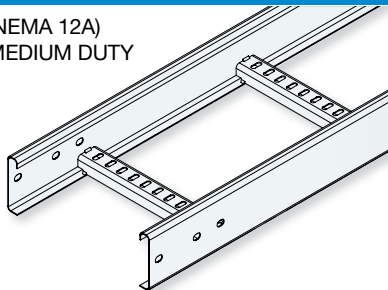
(NEMA 20C)  
EXTRA HEAVY DUTY



> 4:5

**Aluminium Type 3/50**

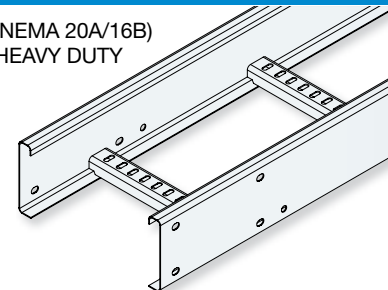
(NEMA 12A)  
MEDIUM DUTY



> 4:7

**Aluminium Type 4/70**

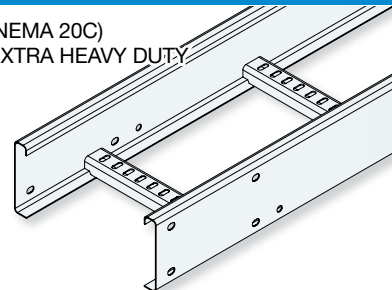
(NEMA 20A/16B)  
HEAVY DUTY



> 4:8

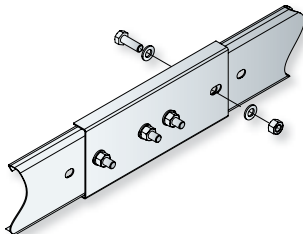
**Aluminium Type 5/112**

(NEMA 20C)  
EXTRA HEAVY DUTY



> 4:9

**Ladder Splice Plates**



> 3:18

# Cable Ladder Stainless Steel

## General Description

The Kounis Metal Industries Stainless Steel Cable Ladder Systems were developed for use in commercial, industrial & mining applications where the surrounding environment calls for a higher level of protection against corrosion.

Its superior support strength and open ventilation allows for effortless installation of electrical cables and or pipe work.

The finished product is constructed from 316 Grade Stainless Steel side rail sections and rungs welded at 300 mm continuous spacings. Surface treatment is post production pickling and passivation with the focus of ensuring all weld joints are clean to achieve a maximum life span from the installation.

This product range comprises of three system types to cover a wide range of requirements; **Type 3/50** Medium to Heavy Duty 100mm Side (NEMA 16A), **Type 4/70L** Heavy Duty 130 mm Side and **Type 5/112** Extra Heavy Duty 146 mm Side (NEMA 20C). All of which offer the following standard features:

- 6 m lengths
- Self-splicing Bend, Riser, Tee & Cross Fittings.
- Rail in or rail out option
- Earthing holes at point of connection on straight lengths as well as fittings
- Channel type rung offering superior strength
- 25 mm rung tie off centres to allow maximum tie off options
- Hold Down Clamps assemblies with nylon isolation pads and bushes are available for dissimilar materials.
- A full range of flat and peak covers are available for straight lengths and fittings

Engineer certification to withstand certain cyclonic conditions (only available for Type 4/70 & 5/112, minimum installation requirements apply).

All fitting radius measurements are to the internal side rail, stock standard radius varies depending on cable ladder system type and branch standard. All other listed radius options are made to firm order.

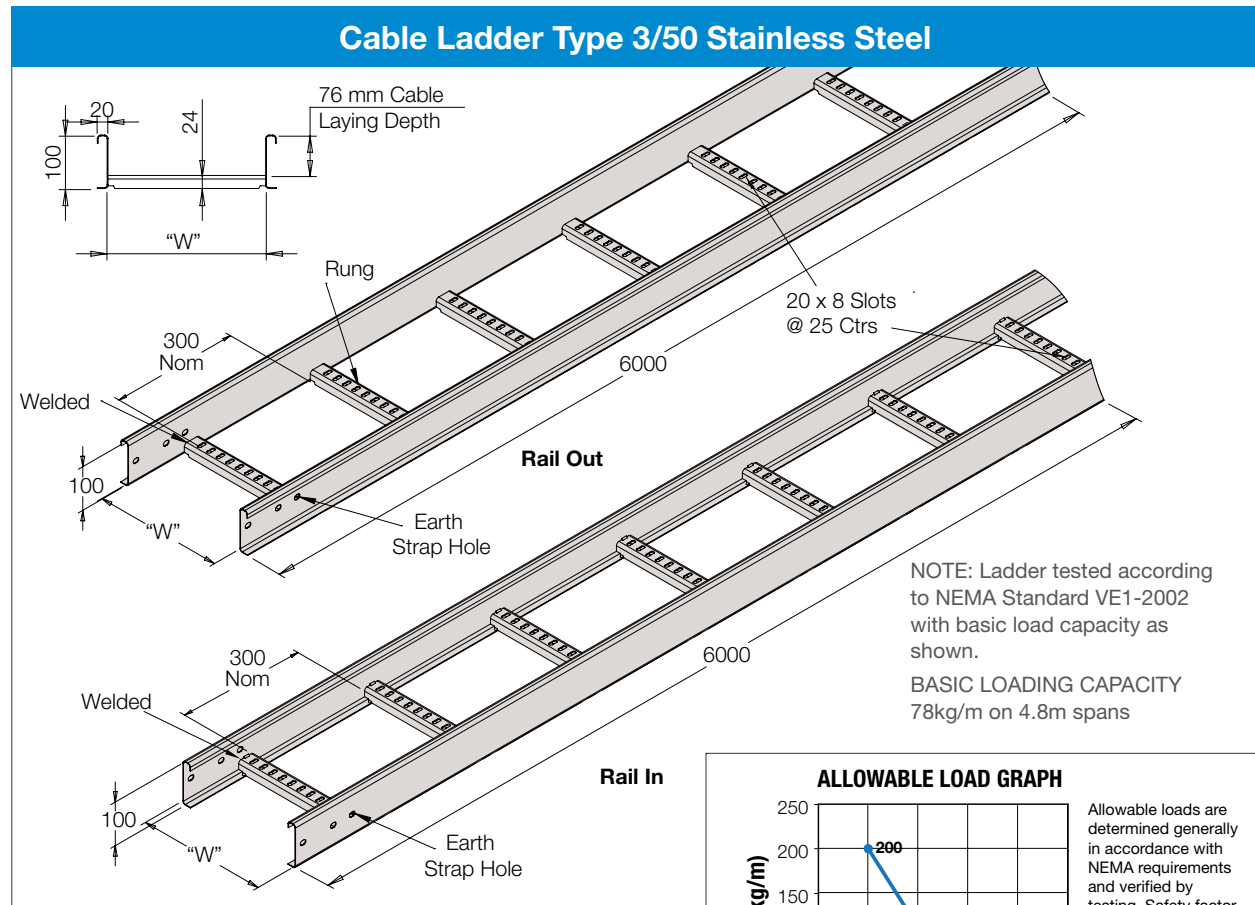
Load capacities and deflection graphs are published by type and can be found on the straight length page for the associated cable ladder system.

Tested to NEMA VE1-2002 Standards. Full engineering details are available on request.

E.&O.E.

# Cable Ladder Medium To Heavy Duty Type 3/50 16A

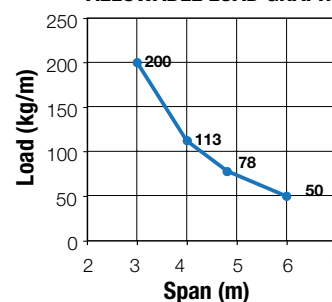
## 1.6 mm Stainless Steel 316 Grade



### Specification

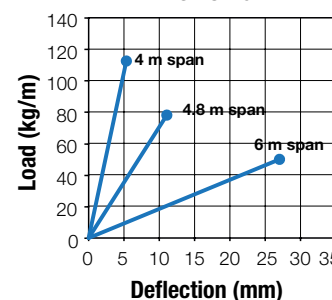
<b>Class Designation:</b>	Cable ladder-medium to heavy duty type 3/50.
<b>Material:</b>	316 stainless steel sheet.
<b>Finish:</b>	Natural.
<b>Rung Spacing:</b>	300 mm spacings with slotted rung standard.
<b>Inside Depth:</b>	76 mm cable laying depth.
<b>Stock Length:</b>	6000 mm standard, joining together by full strength splice plates
<b>Stock Widths:</b>	150 mm, 300 mm, 450 mm & 600 mm standard. Other widths available by request.
<b>Fittings:</b>	A full range of fittings are available e.g bends, risers, tees, crosses and reducers.
<b>Radius:</b>	300 mm radius standard for rail in. 450 mm radius standard for rail out. Other radii available by request.
<b>Accessories:</b>	Flat or peak covers available for ladders and fittings. Barrier strips. Hold down clamps.

### ALLOWABLE LOAD GRAPH



Allowable loads are determined generally in accordance with NEMA requirements and verified by testing. Safety factor = 1.5 over collapse load for single span.

### DEFLECTION GRAPH



Deflections shown apply to the end bays (worst case) of a continuous ladder run. To find deflection of a single span, multiply by 2.5.

### When Ordering

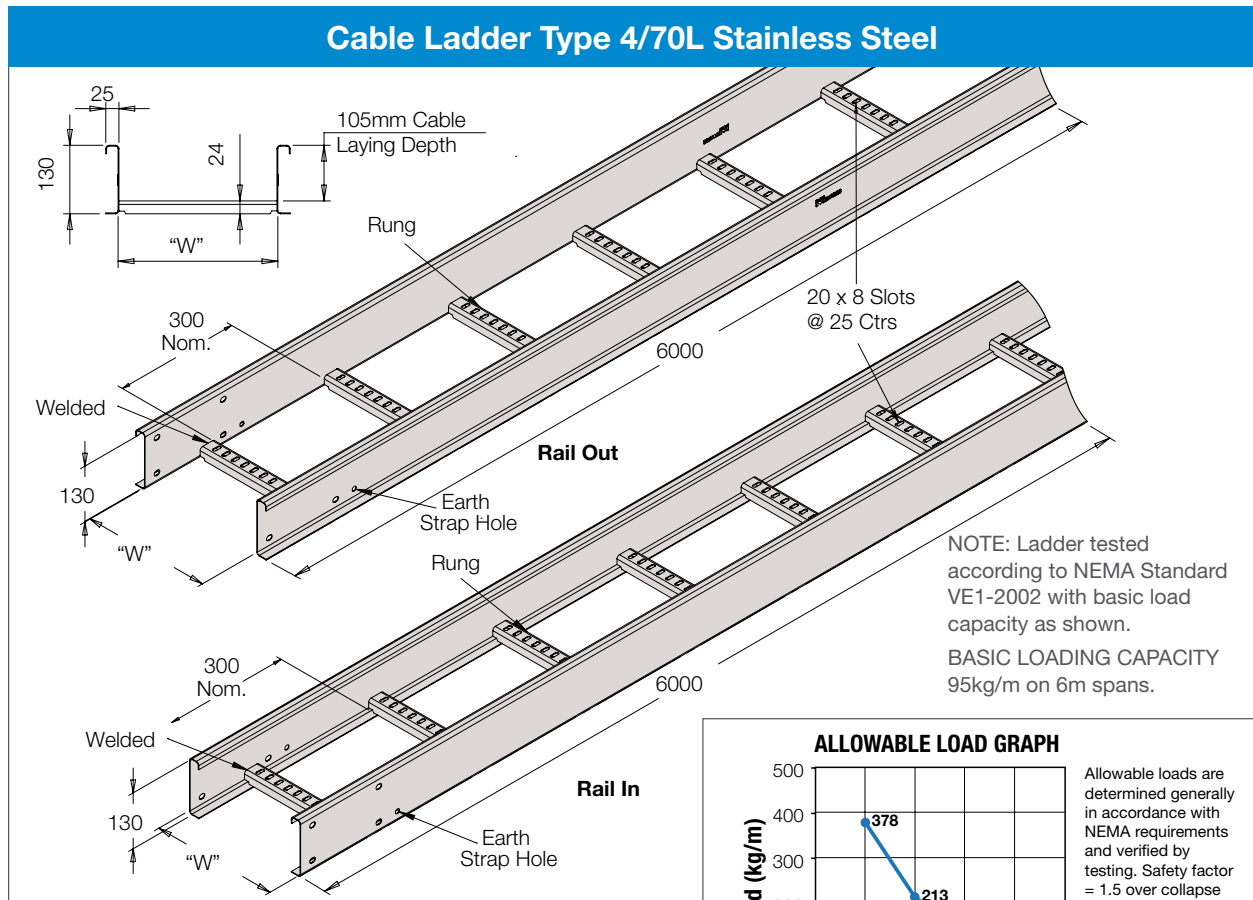
Range	Type	Wide	Material	Fastenings	Rail Direction	Finish
<b>3C</b> 3C = 3/50 100 mm High Side 1.6 mm Gauge	<b>L</b> L = Straight 6 metre Length	<b>15</b> 15 = 150 mm 30 = 300 mm 45 = 450 mm 60 = 600 mm 75 = 750 mm 90 = 900 mm	<b>S</b> 316 Grade Stainless Steel	<b>K</b> K = Includes all required Splice plates with Bolts and nuts	<b>RI or RO</b> RI = Rail In RO = Rail Out (See Rail In note)	Standard Supply is Mill Finish
NOTE: Rail In Ladder (RI) is a Kounis standard and will not show in a supply code. All Rail Out ladder will have a RO suffix shown in all supply codes.		ORDERING EXAMPLE SHOWN: 3/50 Cable Ladder 150 mm wide x 6 metre 316 Stainless Steel c/w Splice Plates Bolts and Nuts				

E.&O.E.



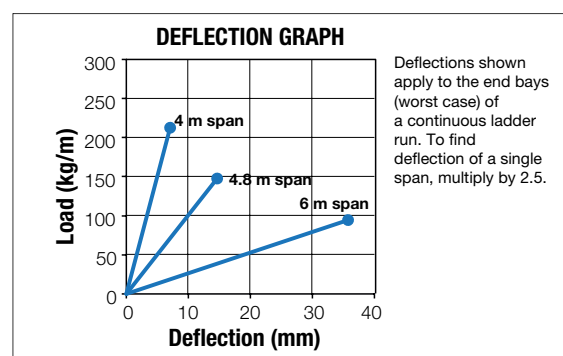
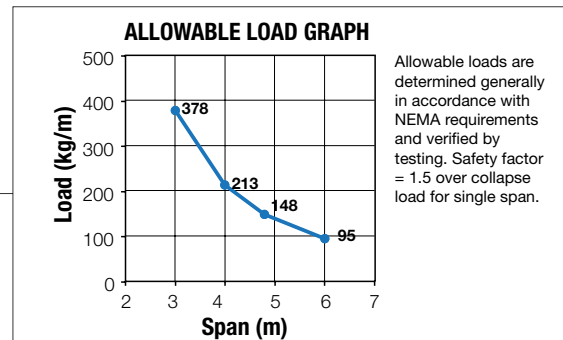
# Cable Ladder Heavy Duty Type 4/70L 20B

## 1.6 mm Stainless Steel 316 Grade



### Specification

<b>Class Designation:</b>	Cable ladder heavy duty type 4/70L.
<b>Material:</b>	316 stainless steel sheet.
<b>Finish:</b>	Natural.
<b>Rung Spacing:</b>	300 mm spacings with slotted rung standard.
<b>Inside Depth:</b>	105 mm cable laying depth.
<b>Stock Length:</b>	6000 mm standard, joining together by full strength splice plates.
<b>Stock Widths:</b>	150 mm, 300 mm, 450 mm and 600 mm standard. Other widths available by request.
<b>Fittings:</b>	A full range of fittings are available e.g bends, risers, tees, crosses & reducers.
<b>Radius:</b>	300 mm radius standard for rail in. 450 mm radius standard for rail out. Other radii available by request.
<b>Accessories:</b>	Flat or peak covers available for ladders and fittings. Barrier strips. Hold down clamps.



### When Ordering

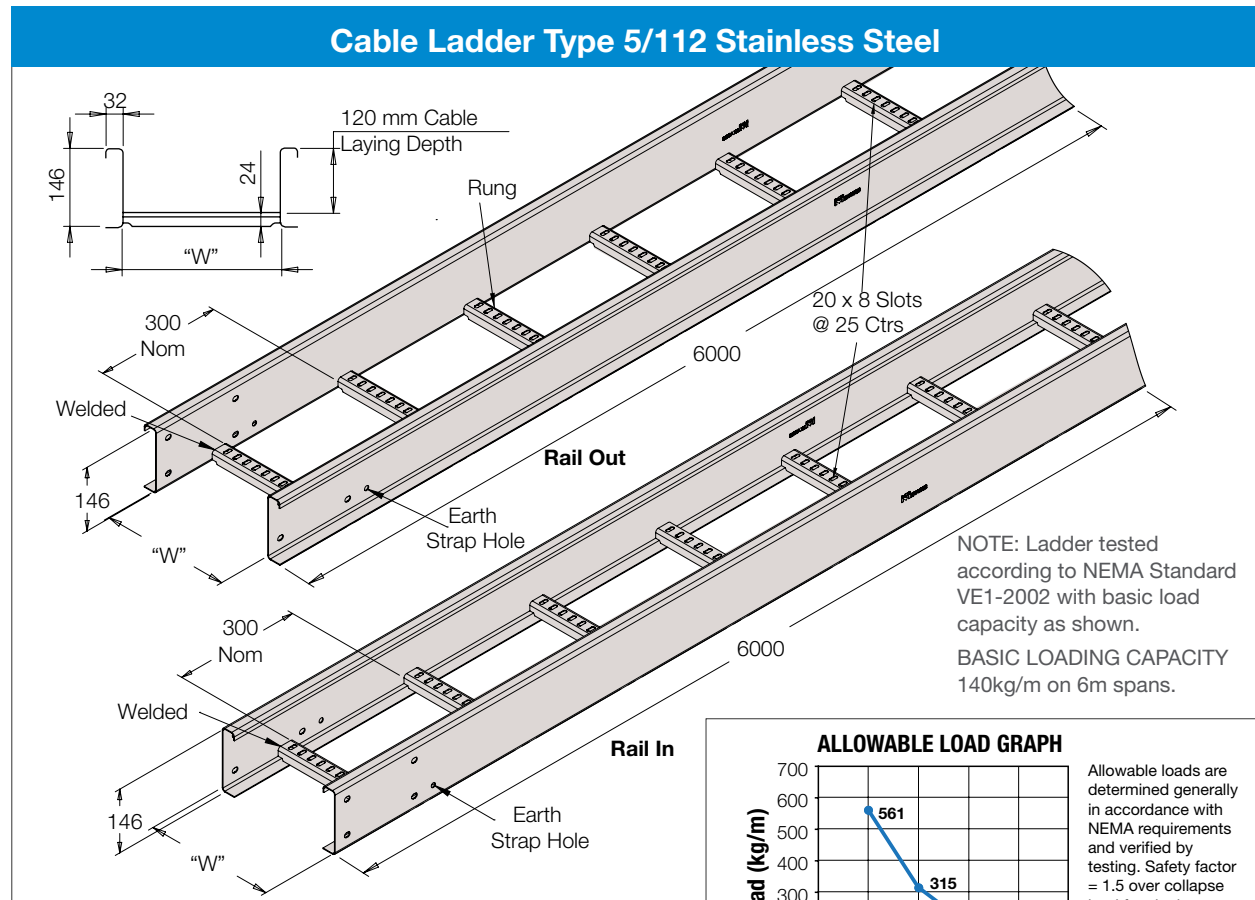
Range	Type	Wide	Material	Fastenings	Rail Direction	Finish
<b>4CL</b>	<b>L</b>	<b>15</b>	<b>S</b>	<b>K</b>	<b>RI or RO</b>	
4CL = 4/70L 130 mm High Side 1.6mm Gauge	L = Straight 6 metre Length	15 = 150 mm 30 = 300 mm 45 = 450 mm 60 = 600 mm 75 = 750 mm 90 = 900 mm	316 Grade Stainless Steel	K = Includes all required Splice plates with Bolts and nuts	RI = Rail In RO = Rail Out (See Rail In note)	Standard Supply is Mill Finish
NOTE: Rail In Ladder (RI) is a Kounis standard and will not show in a supply code. All Rail Out ladder will have a RO suffix shown in all supply codes.						
ORDERING EXAMPLE SHOWN: 4/70L Cable Ladder 150 mm wide x 6 metre 316 Stainless Steel c/w Splice Plates Bolts and Nuts						

E.&O.E.



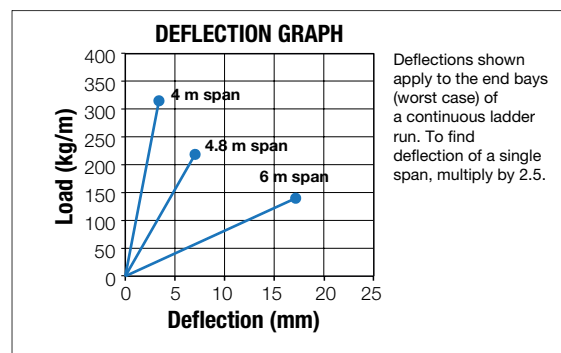
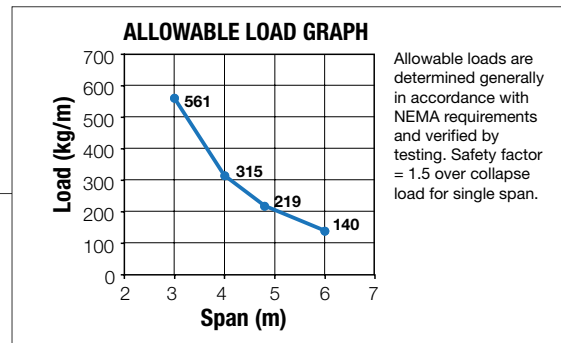
# Cable Ladder Extra Heavy Duty Type 5/112 20C

## 2.0 mm Stainless Steel 316 Grade



### Specification

<b>Class Designation:</b>	Cable ladder extra heavy duty type 5/112.
<b>Material:</b>	316 stainless steel sheet.
<b>Finish:</b>	Natural.
<b>Rung Spacing:</b>	300 mm spacings with slotted rung standard.
<b>Inside Depth:</b>	120 mm cable laying depth.
<b>Stock Length:</b>	6000 mm standard, joining together by full strength splice plates.
<b>Stock Widths:</b>	150 mm, 300 mm, 450 mm and 600 mm standard. Other widths available by request.
<b>Fittings:</b>	A full range of fittings are available e.g bends, risers, tees, crosses and reducers.
<b>Radius:</b>	300 mm radius standard for rail in. 450 mm radius standard for rail out. Other radii available by request.
<b>Accessories:</b>	Flat or peak covers available for ladders and fittings. Barrier strips. Hold down clamps.



### When Ordering

Range	Type	Wide	Material	Fastenings	Rail Direction	Finish
<b>5C</b> 5C = 5/112 146 mm High Side 2.0 mm Gauge	<b>L</b> L = Straight 6 metre Length	<b>15</b> 15 = 150 mm 30 = 300 mm 45 = 450 mm 60 = 600 mm 75 = 750 mm 90 = 900 mm	<b>S</b> 316 Grade Stainless Steel	<b>K</b> K = Includes all required Splice plates with Bolts and nuts	<b>RO</b> RI = Rail In RO = Rail Out (See Rail In note)	Standard Supply is Mill Finish
NOTE: Rail In Ladder (RI) is a Kounis standard and will not show in a supply code. All Rail Out ladder will have a RO suffix shown in all supply codes.		ORDERING EXAMPLE SHOWN: 5/112 Cable Ladder 150 mm wide x 6 metre 316 Stainless Steel c/w Splice Plates Bolts and Nuts.				

## Cable Ladder Aluminium

### General Description

The Kounis Group Aluminium Cable Ladder Systems are developed for use in commercial, industrial & mining applications.

Its superior support strength and open ventilation allows for effortless installation of electrical cables and or pipe work.

The finished product is constructed from Grade 6106 – T6 Extruded Aluminium Alloy side rail sections has rungs welded at 300 mm continuous spacings. Ladders have a post production treatment with the focus on ensuring all weld joints are clean to achieve a maximum life span from the installation.

This product range comprises three system types to cover a wide range of requirements; **Type 3/50** Medium Duty 90 mm Side (NEMA 12A), **Type 4/70** Heavy Duty 130 mm Side (NEMA 16B and NEMA 20A) and **Type 5/112** Extra Heavy Duty 155 mm Side (NEMA 20C). All of which offer the following standard features:

- 6 m length
- Self-splicing Bend, Riser, Tee & Cross Fittings
- Earthing holes at point of connection on straight lengths as well as fittings
- Channel type rungs offering superior strength
- 25 mm rung tie off centres to allow maximum tie off options
- Use of stainless steel fixings required
- A full range of flat and peak covers are available for straight lengths and fittings

All fitting radius measurements are to the internal side rail, stock standard radius varies depending on cable ladder system type and branch standard.

All other listed radius options are made to firm order.

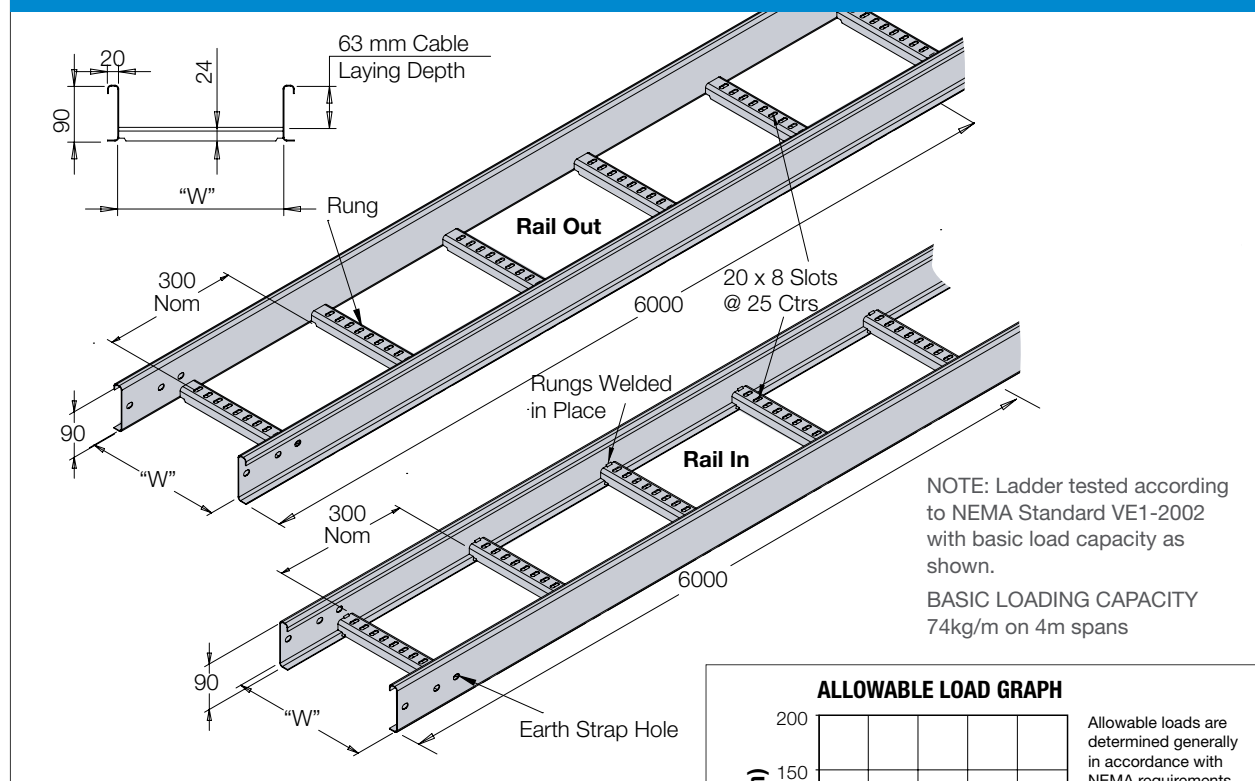
Load capacities and deflection graphs are published by type and can be found on the straight length page for the associated cable ladder system.

Tested to NEMA VE1-2002 Standards, Full engineering details are available on request.

# Cable Ladder Medium Duty Type 3/50 12A

## Grade 6106 – T6 Aluminium

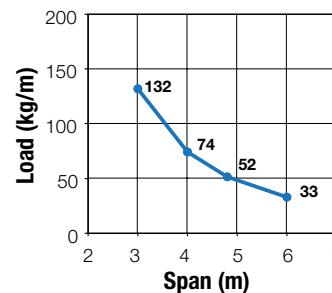
### Cable Ladder Type 3/50 Aluminium



### Specification

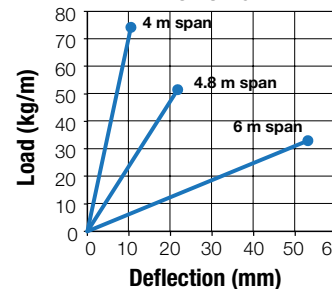
<b>Class designation:</b>	Cable ladder medium duty type 3/50.
<b>Material:</b>	6106-T6 Marine Grade Aluminum Alloy Grade 316 Stainless Steel fastenings
<b>Finish:</b>	Standard Mill Finish
<b>Rung spacing:</b>	300 mm spacings with slotted rungs standard.
<b>Inside depth:</b>	63 mm cable laying depth.
<b>Stock length:</b>	6000 mm standard, joining together by full strength splice plates
<b>Stock widths:</b>	150 mm, 300 mm, 450 mm and 600 mm standard.
<b>Fittings:</b>	A full range of fittings are available e.g bends, risers, tees, crosses and reducers.
<b>Radius:</b>	300 mm radius standard for rail in. 450 mm radius standard for rail out. Other radii available by request.
<b>Accessories:</b>	Flat or peak covers available for ladders and fittings. Barrier strips. Hold down clamps.

### ALLOWABLE LOAD GRAPH



Allowable loads are determined generally in accordance with NEMA requirements and verified by testing. Safety factor = 1.5 over collapse load for single span.

### DEFLECTION GRAPH



Deflections shown apply to the end bays (worst case) of a continuous ladder run. To find deflection of a single span, multiply by 2.5.

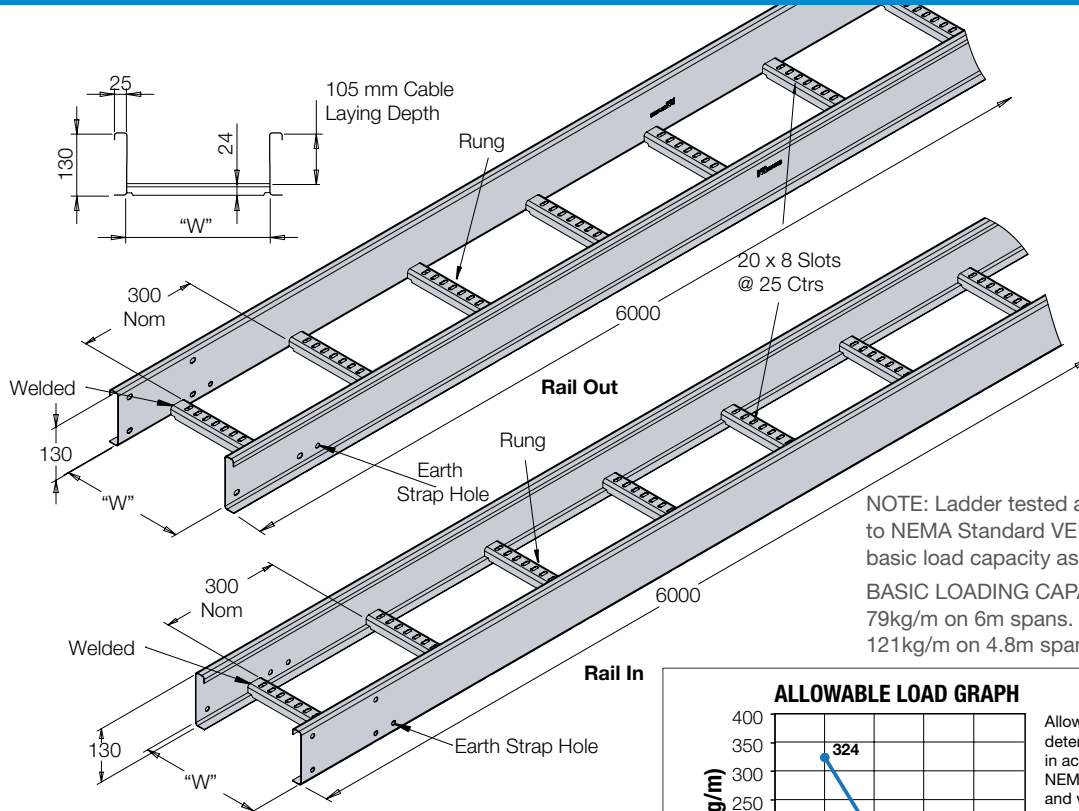
### When Ordering

Range	Type	Wide	Material	Fastenings	Rail Direction	Finish
<b>3C</b>	<b>L</b>	<b>15</b>	<b>A</b>	<b>K</b>	<b>RI or RO</b>	
3C = 3/50 90mm High Side Extrusion	L = Straight 6 metre Length	15 = 150 mm 30 = 300 mm 45 = 450 mm 60 = 600 mm 75 = 750 mm 90 = 900 mm	A = 6106-T6 Aluminium	K = includes all required Splice plates with Bolts and nuts	RI = Rail In RO = Rail Out (See Rail In note)	Standard supply is Mill Finish Aluminium
NOTE: Rail In Ladder (RI) is a Kounis standard and will not show in a supply code. All Rail Out ladder will have a RO suffix shown in all supply codes.						
ORDERING EXAMPLE SHOWN: 3/50 Cable Ladder 150 mm wide x 6 metre Aluminium c/w Splice Plates Bolts and Nuts						

# Cable Ladder Heavy Duty Type 4/70 20A/16B

## Grade 6106 – T6 Aluminium

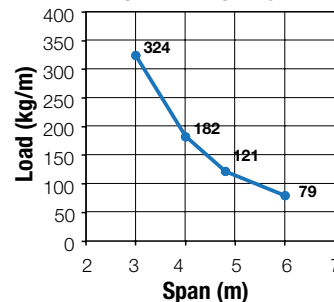
### Cable Ladder Type 4/70 Aluminium



NOTE: Ladder tested according to NEMA Standard VE1-2002 with basic load capacity as shown.

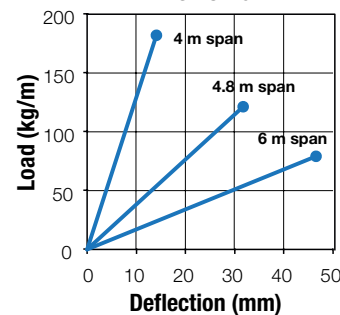
BASIC LOADING CAPACITY  
79kg/m on 6m spans.  
121kg/m on 4.8m spans.

#### ALLOWABLE LOAD GRAPH



Allowable loads are determined generally in accordance with NEMA requirements and verified by testing. Safety factor = 1.5 over collapse load for single span.

#### DEFLECTION GRAPH



Deflections shown apply to the end bays (worst case) of a continuous ladder run. To find deflection of a single span, multiply by 2.5.

### Specification

<b>Class designation:</b>	Cable ladder heavy duty type 4/70.
<b>Material:</b>	6106-T6 Marine Grade Aluminum Alloy Grade 316 Stainless Steel fastenings
<b>Finish:</b>	Standard Mill Finish
<b>Rung spacing:</b>	300 mm spacings with slotted rungs standard.
<b>Inside depth:</b>	105 mm cable laying depth.
<b>Stock length:</b>	6000 mm standard, joining together by full strength splice plates
<b>Stock widths:</b>	150 mm, 300 mm, 450 mm and 600 mm standard.
<b>Fittings:</b>	A full range of fittings are available e.g bends, risers, tees, crosses and reducers.
<b>Radius:</b>	300 mm radius standard for rail in. 450 mm radius standard for rail out. Other radii available by request.
<b>Accessories:</b>	Flat or peak covers available for ladders and fittings. Barrier strips. Hold down clamps.

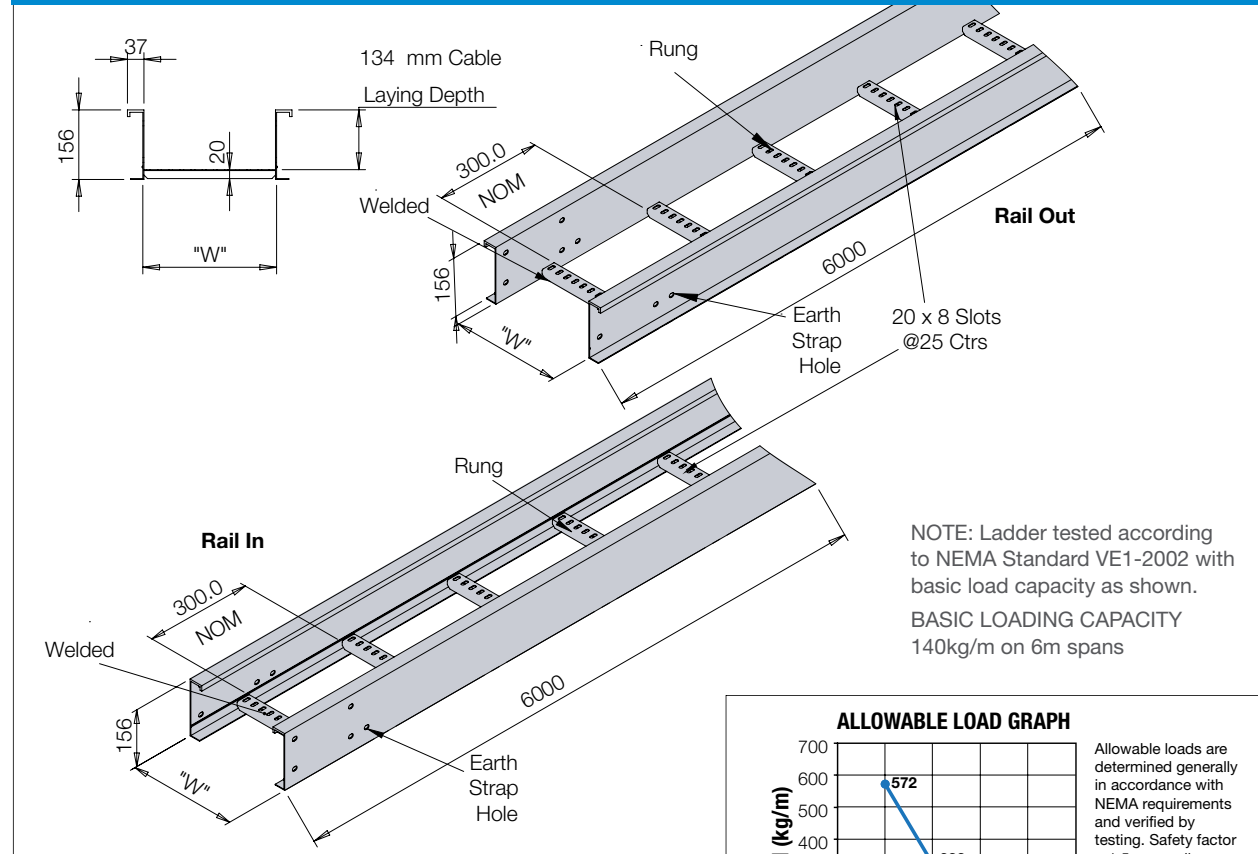
### When Ordering

Range	Type	Wide	Material	Fastenings	Rail Direction	Finish
<b>4C</b> 4C = 4/70 130 mm High Side Extrusion	<b>L</b> L = Straight 6 metre Length	<b>15</b> 15 = 150 mm 30 = 300 mm 45 = 450 mm 60 = 600 mm 75 = 750 mm 90 = 900 mm	<b>A</b> A = 6106-T6 Aluminium	<b>K</b> K = includes all required Splice plates with Bolts and nuts	<b>RI or RO</b> RI = Rail In RO = rail Out (See Rail In note)	Standard supply is Mill Finish Aluminium
NOTE: Rail In Ladder (RI) is a Kounis standard and will not show in a supply code. All Rail Out ladder will have a RO suffix shown in all supply codes.		ORDERING EXAMPLE SHOWN: 3/50 Cable Ladder 150 mm wide x 6 metre Aluminium c/w Splice Plates Bolts and Nuts				

E.&O.E.

# Cable Ladder Extra Heavy Duty Type 5/112 20C Grade 6106 – T6 Aluminium

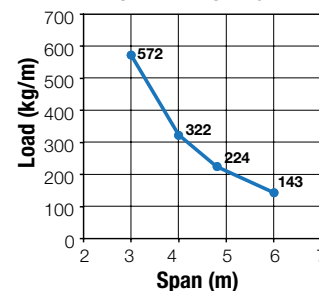
## Cable Ladder Type 5/112 Aluminium



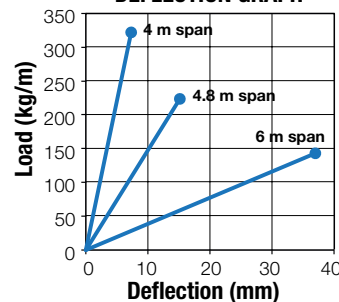
## Specification

<b>Class designation:</b>	Cable ladder extra heavy duty type 5/112.
<b>Material:</b>	6106-T6 Marine Grade Aluminum Alloy Grade 316 Stainless Steel fastenings
<b>Finish:</b>	Standard Mill Finish
<b>Rung spacing:</b>	300 mm spacings with slotted rungs standard.
<b>Inside depth:</b>	130 mm cable laying depth.
<b>Stock length:</b>	6000 mm standard, joining together by full strength splice plates
<b>Stock widths:</b>	150 mm, 300 mm, 450 mm and 600 mm standard.
<b>Fittings:</b>	A full range of fittings are available e.g bends, risers, tees, crosses and reducers.
<b>Radius:</b>	300 mm radius standard for rail in.450 mm radius standard for rail out. Other radii available by request.
<b>Accessories:</b>	Flat or peak covers available for ladders and fittings. Barrier strips. Hold down clamps.

### ALLOWABLE LOAD GRAPH



### DEFLECTION GRAPH



## When Ordering

Range	Type	Wide	Material	Fastenings	Rail Direction	Finish
<b>5C</b> 5C = 5/112 156mm High Side Extrusion	<b>L</b> L = Straight 6 metre Length	<b>15</b> 15 = 150 mm 30 = 300 mm 45 = 450 mm 60 = 600 mm 75 = 750 mm 90 = 900 mm	<b>A</b> A = 6106-T6 Aluminium	<b>K</b> K = includes all required Splice plates with Bolts and nuts	<b>RI or RO</b> RI = Rail In RO= Rail Out (See Rail In note)	Standard supply is Mill Finish Aluminium
NOTE: Rail In Ladder (RI) is a Kounis standard and will not show in a supply code. All Rail Out ladder will have a RO suffix shown in all supply codes. Ordering example shown 5/112 Cable Ladder 150mm wide x 6 metre Aluminium Rail In c/w Splice Plates Bolts & Nuts						

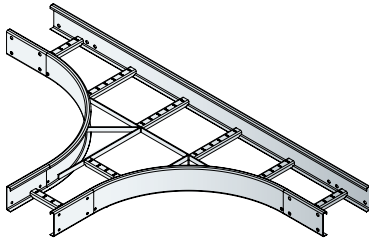
E.&O.E.

## Notes

CABLE LADDER  
(Stainless & Aluminium)

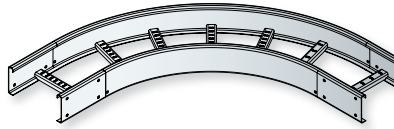
## SECTION 5: Structural Cable Ladder Systems

Tee



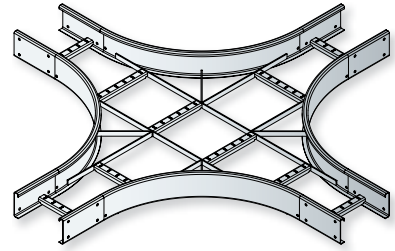
> 5:3

Bend



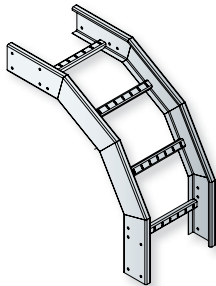
> 5:3

Cross



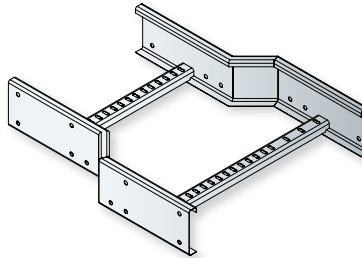
> 5:4

Risers



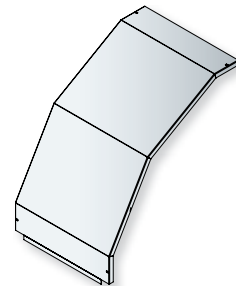
> 5:4

Reducers



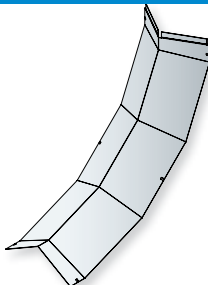
> 5:5

Riser Flat Covers



> 5:6

Riser Peak Covers



> 5:7



# Structural Cable Ladder Systems

## General Description

The Kounis Metal Industries Structural Cable Ladder Fittings and Covers were developed for use in heavy commercial, industrial and mining applications. Structural fittings are ideal where standard flat strip fittings are deemed to be too light for heavy applications and not meeting the load or deflection requirements of the installation.

The Structural Fitting range has been designed utilizing the structural capabilities of the straight side rail section and following the same profile to allow the fitting to be more rigid and self-supporting for large radius installation.

The Structural Fitting range is available to suit **Type 4/70L** 1.6 mm 130 mm Side (NEMA 20B), **Type 4/70** 2.0 mm 130 mm Side (NEMA 20B) and **Type 5/112** 146 mm Side (NEMA 20C) all of which offer the following standard features:

- Hot Dipped Galvanised, 316 Grade Stainless Steel and Aluminium Construction
- 8 bolt splice plate connection
- Rail in or rail out option
- Earthing holes at all points of connection
- Channel type rung offering superior strength
- 25 mm rung tie off centres to allow maximum tie off options
- A full range of flat and peak covers for straight lengths and fittings are available. (Structural fitting covers in this section are specific to Internal and external risers)
- Engineer certification to withstand certain cyclonic conditions (only available for Type 4/70 & 5/112, minimum installation requirements apply)

All fitting radius measurements are to the internal side rail, stock standard radius varies depending on cable ladder system type and branch standard. All other listed radius options are made to firm order.

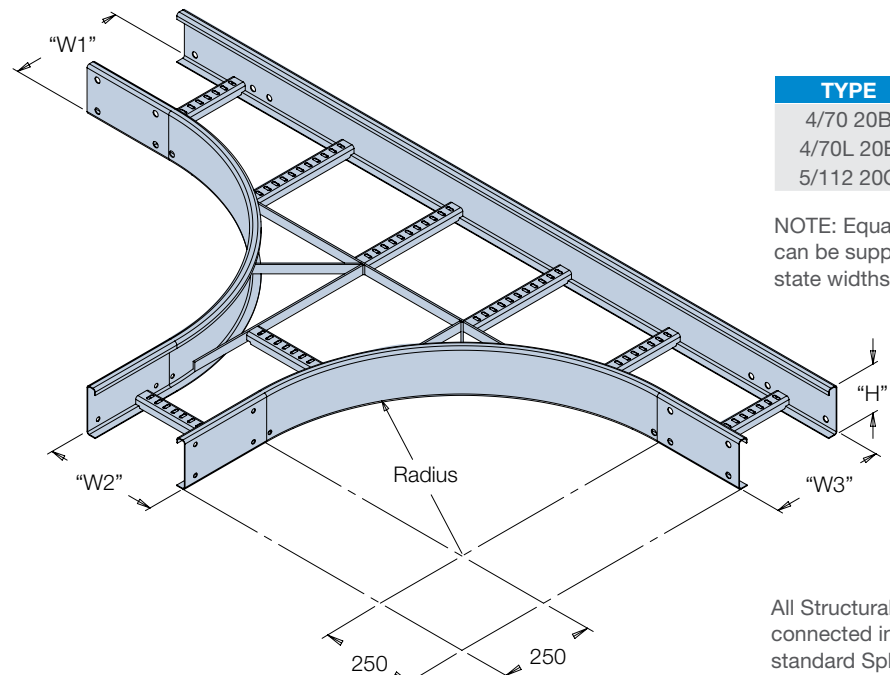
Painted finish available on request.

### Kounis Group Standard Colour Range

Optional Polyester Powder Coat finishes can be provided from our standard stock colours. Our range is White, Black, Orange and Grey Hammertone. Other colours or epoxy powder coat finish can be provided to firm orders.

# Structural Cable Ladder Fittings

**Tee**

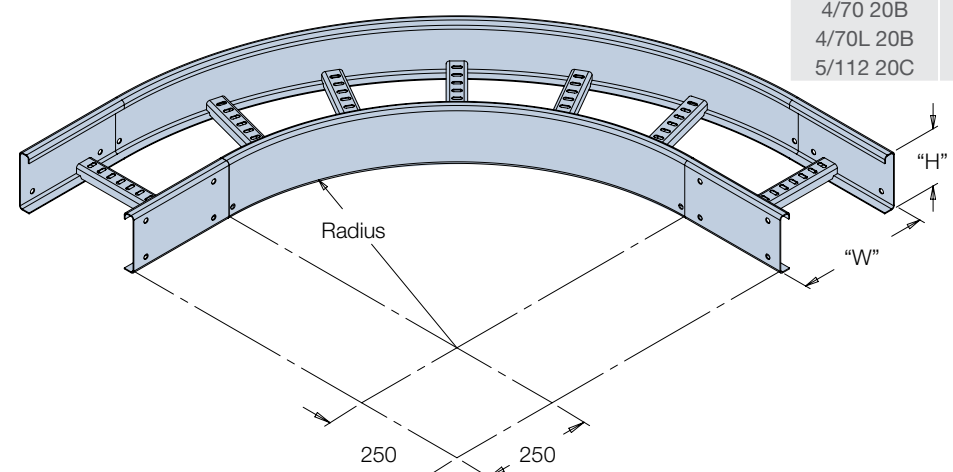


TYPE	HEIGHT
4/70 20B	130 mm
4/70L 20B	130 mm
5/112 20C	146 mm

NOTE: Equal or unequal tees can be supplied. When ordering state widths W1 x W2 x W3

All Structural Fittings are connected into ladder run by standard Splice Plates

**Bend**



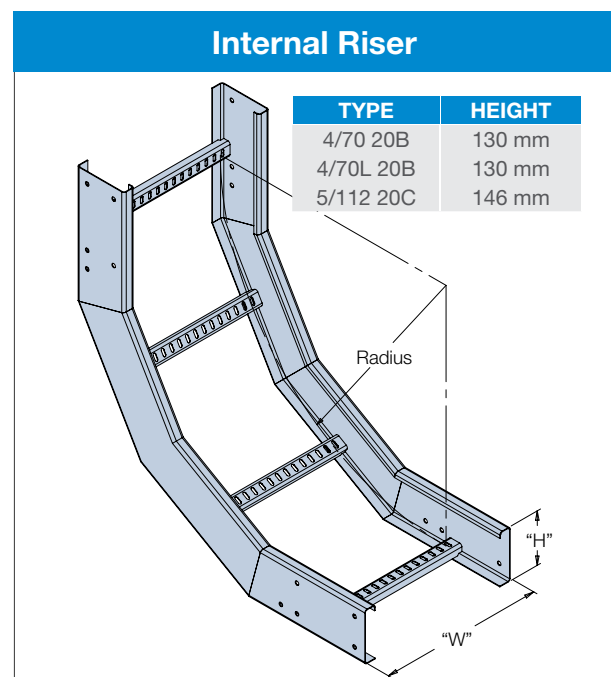
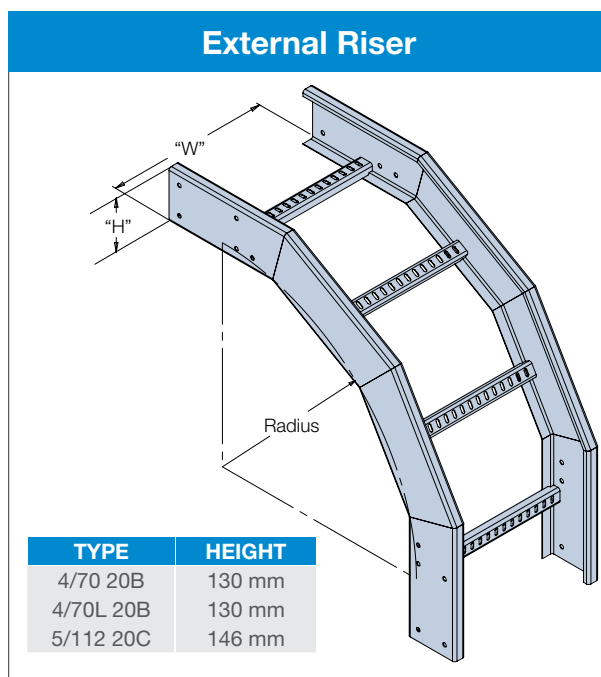
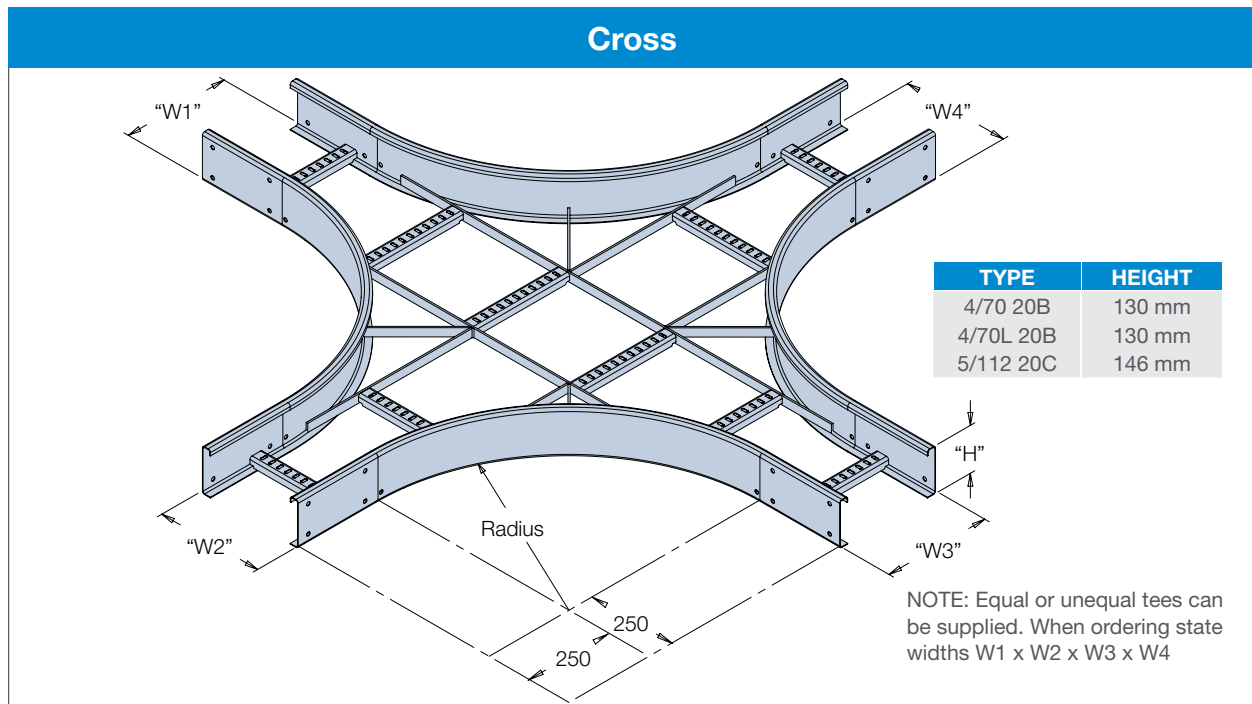
TYPE	HEIGHT
4/70 20B	130 mm
4/70L 20B	130 mm
5/112 20C	146 mm

## When Ordering

Range	Type	Wide	Material	Fastenings	Rail Direction	Radius	Finish
<b>4D</b> 4D = 4/70 130 mm High 2.0 mm thk. <b>5D</b> = 5/112 146 mm High 2.0 mm thk. <b>4D</b> = 4/70L 130 mm High 1.6 mm thk	<b>B</b> T = Tee Equal B = Bend 90° <b>4/70 &amp; 5/112</b> TL = Tee Equal BL = Bend 90° <b>4/70L and Stainless</b> (See Ordering Note)	<b>15</b> 15 = 150 mm 30 = 300 mm 45 = 450 mm 60 = 600 mm 75 = 750 mm 90 = 900 mm	<b>H</b> H = Mild Steel Hot Dip Galv S = 316 Stainless Steel A = Aluminium	<b>K</b> K = includes all required Splice Plates, Bolts and nuts	<b>RO or RI</b> RI = Rail In RO = Rail Out (See Rail In Note)	<b>6</b> 3 = 300 mm 6 = 600 mm 9 = 900 mm <b>600 mm Std. radius</b>	PC-COL PC-COL = paint Painted finish to Kounis standard colour range
NOTE: Rail In Ladder (RI) is a Kounis standard and will not show in a supply code. All Rail Out ladder will have a RO suffix shown in all supply codes.							
ORDERING EXAMPLE SHOWN: 4/70 Structural Cable Ladder 90° Bend 150 mm wide HDG 600 mm Radius c/w Splice Plates Bolts and Nuts. Painted Finish to specification colour. Note: 45, 30 & 60° option shown after size (eg:1545) code for alternative 150 mm 45° Bend.							

E.&O.E.

## Structural Cable Ladder Fittings



### When Ordering

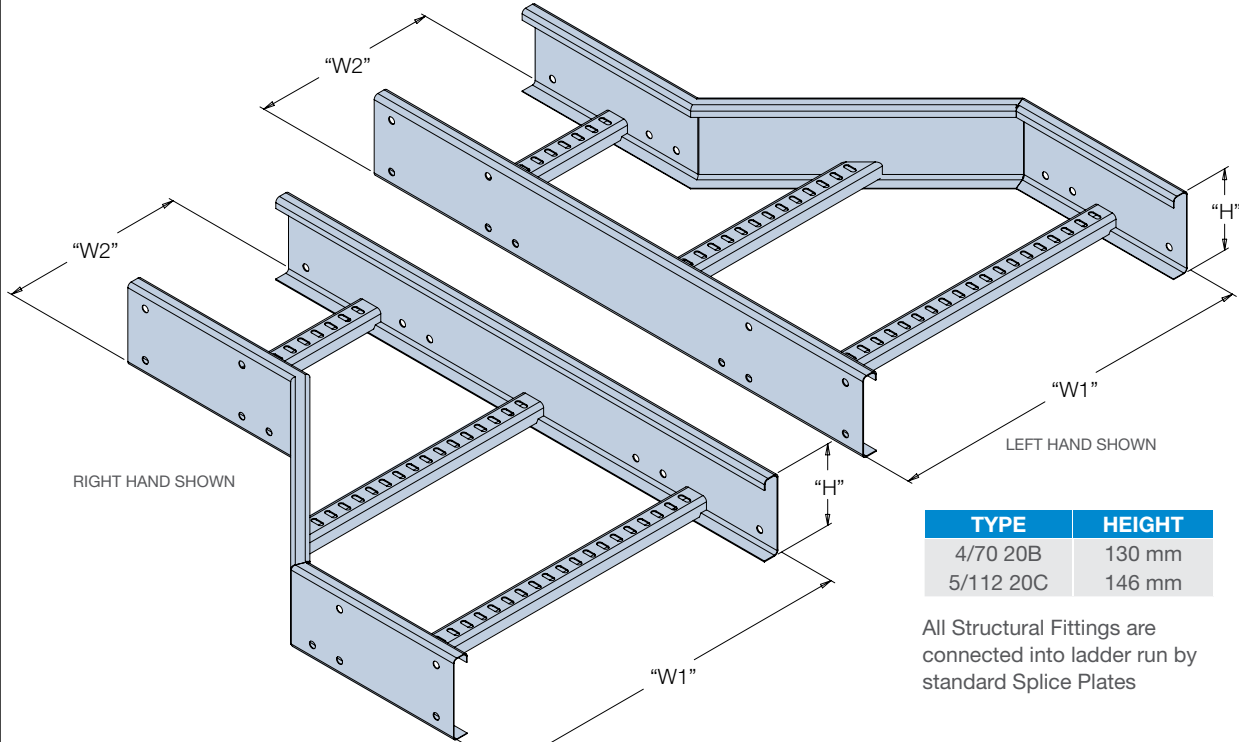
Range	Type	Wide	Material	Fastenings	Rail Direction	Radius	Finish
<b>4D</b> 4D = 4/70 130 mm High 2.0 mm thk. <b>5D = 5/112 146 mm</b> High 2.0 mm thk. <b>4D = 4/70L 130 mm</b> High 1.6 mm thk	<b>RI</b> RI = Internal Riser 90° <b>RX</b> = External Riser 90° C = Cross <b>4/70 &amp; 5/112</b> RIL = Internal Riser 90° <b>RXL</b> = External Riser 90° CL = Cross <b>4/70L and Stainless</b> (See Ordering Note)	<b>15</b> 15 = 150 mm 30 = 300 mm 45 = 450 mm 60 = 600 mm 75 = 750 mm 90 = 900 mm	<b>H</b> H = Mild Steel Hot Dip Galv S = 316 Stainless Steel A = Aluminium	<b>K</b> K = includes all required Splice Plates, Bolts and nuts	<b>RI or RO</b> RI = Rail In RO = Rail Out (See Rail In note)	<b>6</b> 3 = 300 mm 6 = 600 mm 9 = 900 mm <b>600 mm Std. radius</b>	<b>PC-COL</b> PC-COL = paint Painted finish to Kounis standard colour range
<p>NOTE: Rail In Ladder (RI) is a Kounis standard and will not show in a supply code. All Rail Out ladder will have a RO suffix shown in all supply codes.</p> <p>ORDERING EXAMPLE SHOWN: 4/70 Structural Cable Ladder 90° Internal Riser 150 mm wide HDG Rail Out 600 mm Radius c/w Splice Plates Bolts and Nuts. Painted Finish to specification colour.</p> <p>Note: 45,30 &amp; 60° option shown after size (eg: 1545) code alternative 150 mm 45° Riser.</p>							

All Structural Fittings are connected into ladder run by standard Splice Plates

E.&O.E.

## Structural Cable Ladder Fittings

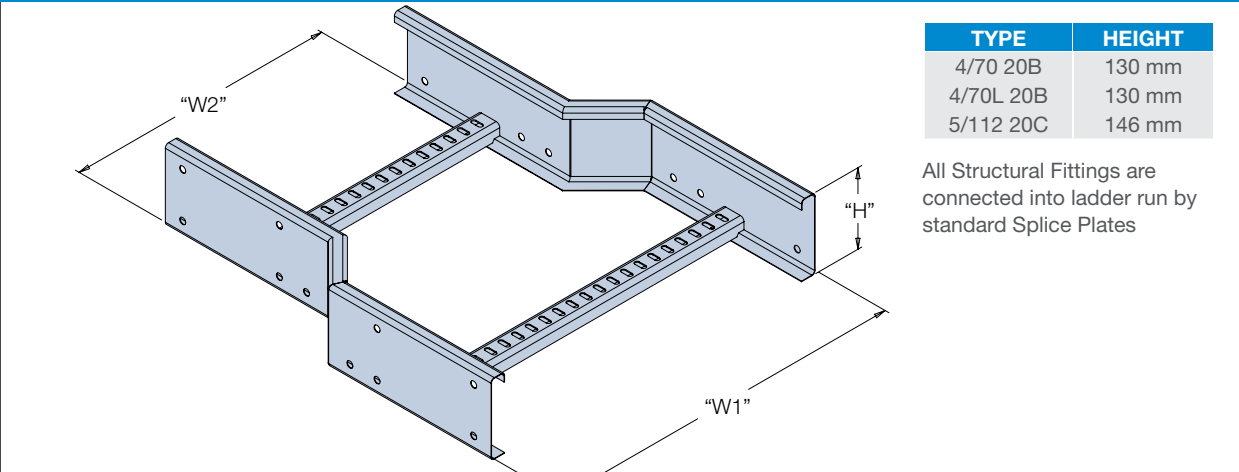
### Offset Reducer



TYPE	HEIGHT
4/70 20B	130 mm
5/112 20C	146 mm

All Structural Fittings are connected into ladder run by standard Splice Plates

### Straight Reducer



TYPE	HEIGHT
4/70 20B	130 mm
4/70L 20B	130 mm
5/112 20C	146 mm

All Structural Fittings are connected into ladder run by standard Splice Plates

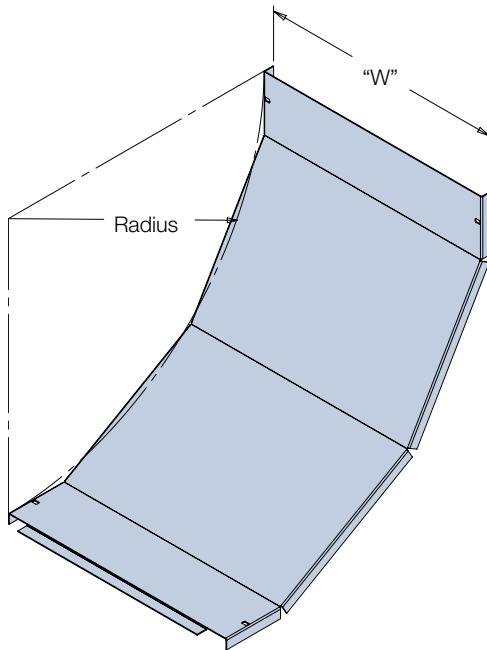
### When Ordering

Range	Type	Wide	Material	Fastenings	Rail Direction	Radius	Finish
<b>4D</b> 4D = 4/70 130 mm High 2.0 mm thk.	<b>SR</b> SR = Straight Reducer RR = Right Reducer LR = Left Reducer	<b>3015</b> 15 = 150 mm 30 = 300 mm 45 = 450 mm 60 = 600 mm 75 = 750 mm 90 = 900 mm	<b>H</b> H = Mild Steel Hot Dip Galv S = 316 Stainless Steel A = Aluminium	<b>K</b> K = includes all required Splice Plates, Bolts and nuts	<b>RI or RO</b> RI = Rail In RO = Rail Out (See Rail In note)	<b>6</b> 3 = 300 mm 6 = 600 mm 9 = 900 mm <b>600 mm Std. radius</b>	<b>PC-COL</b> PC-COL = paint Painted finish to Kounis standard colour range
<b>5D</b> = 5/112 146 mm High 2.0 mm thk.	<b>4/70 &amp; 5/112</b> SRL = Straight Reducer RRL = Right Reducer LRL = Left Reducer						
<b>4D</b> = 4/70L 130 mm High 1.6 mm thk	<b>4/70L and Stainless</b> (See Ordering Note)						
NOTE: Rail In Ladder (RI) is a Kounis standard and will not show in a supply code. All Rail Out ladder will have a RO suffix shown in all supply codes.		ORDERING EXAMPLE SHOWN: 4/70 Structural Cable Ladder Straight Reducer 300 to 150 mm wide HDG c/w Splice Plates Bolts and Nuts. Painted Finish to specification colour.					

E.&O.E.

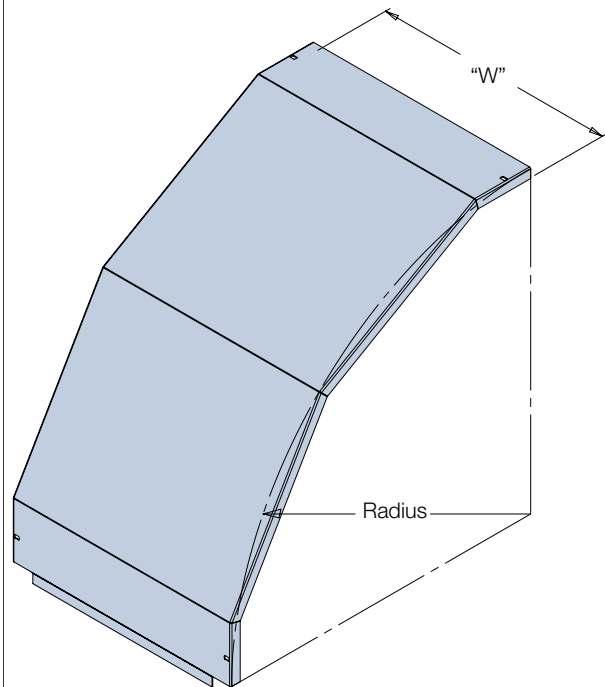
## Structural Cable Ladder Flat Fitting Covers

### Internal Riser Flat Cover



NOTE: Structural Peak and Flat Riser Covers are unique to the structural fitting range. Please refer to Section 6 for all other structural fitting covers.

### External Riser Flat Cover



NOTE: Structural Peak and Flat Riser Covers are unique to the structural fitting range. Please refer to Section 6 for all other structural fitting covers.

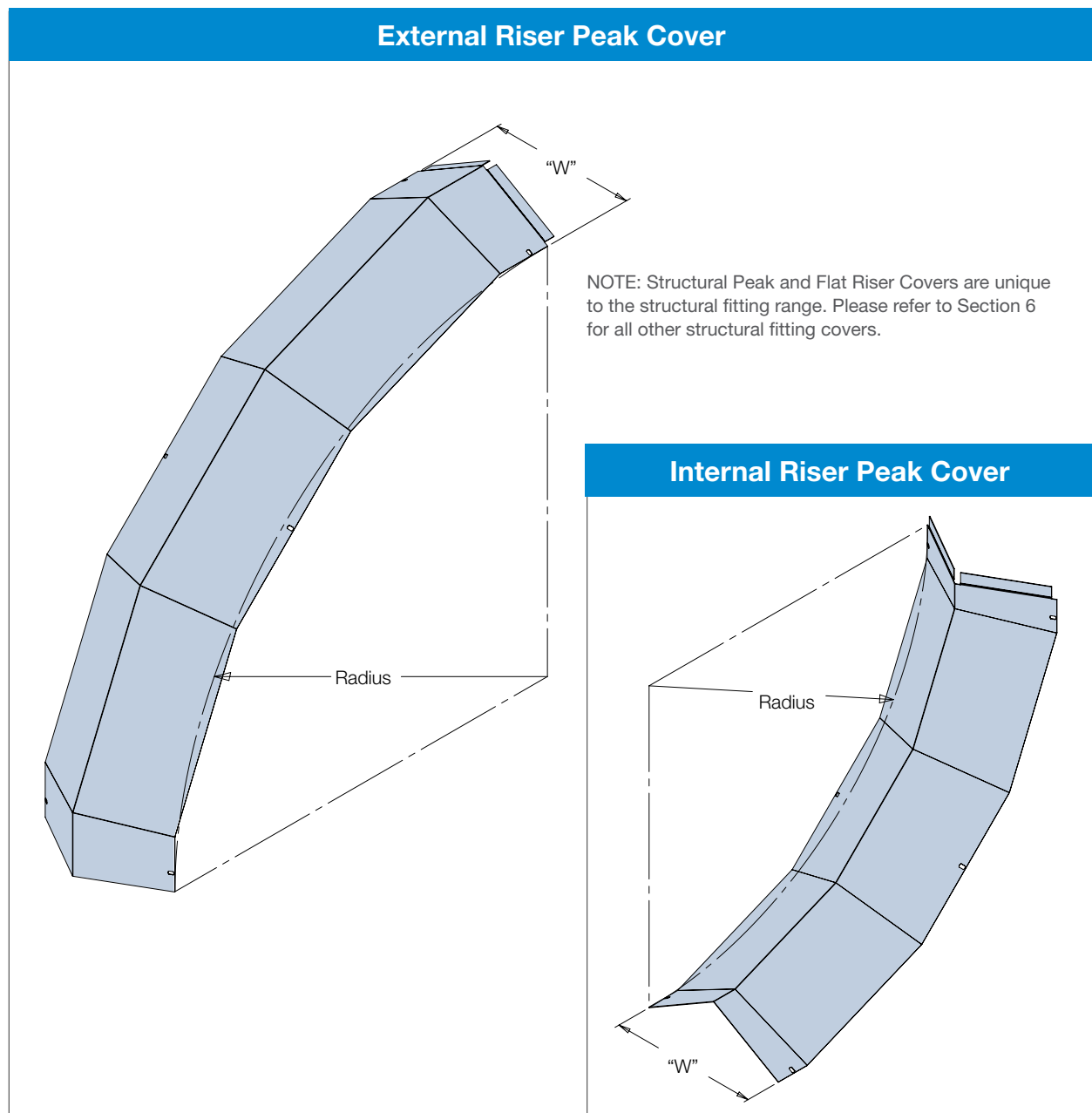
Covers can also be supplied in Stainless Steel or Aluminium to order.

### When Ordering

Range	Type	Fitting	Wide	Thickness	Std. Finish	Fastenings	Side Rail	Radius	Finish
<b>4D</b>	<b>FC</b>	<b>RX</b>	<b>15</b>	<b>H</b>	<b>H</b>	<b>K</b>	<b>RI or RO</b>	<b>6</b>	<b>PC-COL</b>
4D = 4/70 130 mm High 2.0 mm thk Structural 5D = 5/112 146 mm High 2.0 mm thk Structural	FC = Flat Cover	RI = Internal RX = External Riser 90° (see ordering note)	15 = 150 mm 30 = 300 mm 45 = 450 mm 60 = 600 mm 75 = 750 mm 90 = 900 mm	L = 0.6 mm thk. M = 1.2 mm thk. H = 1.6 mm thk.	G = Galvabond H = Hot Dip Galv S= 316 Stainless Steel A = Aluminium P = Painted	K = includes all required attachment hooks	RI = Rail In RO = Rail Out	3 = 300 mm 6 = 600 mm 9 = 900 mm <b>600 mm</b> Std. radius	Painted finish to Kounis standard colour range
NOTE: Rail In Ladder (RI) is a Kounis standard and will not show in a supply code. All Rail Out ladder will have a RO suffix shown in all supply codes.					ORDERING EXAMPLE SHOWN: 4/70 Structural Cable Ladder 90° External Riser Flat Cover 150 mm wide HDG 600 radius c/w attachment hooks. Painted Finish to specification colour. Note: 45,30 & 60° option shown after size (eg: 1545) code alternative 150 mm 45° Riser.				

E.&O.E.

# Structural Cable Ladder Peak Fitting Covers



Covers can also be supplied in Stainless Steel or Aluminium to order.

## When Ordering

Range	Type	Fitting	Wide	Thickness	Std. Finish	Fastenings	Side Rail	Radius	Finish
<b>4D</b> 4D = 4/70 130 mm High 2.0 mm thk Structural 5D = 5/112 146 mm High 2.0 mm thk Structural	<b>PC</b> PC = Peak Cover	<b>RX</b> RI = Internal RX = External Riser 90° (see ordering note)	<b>15</b> 15 = 150 mm 30 = 300 mm 45 = 450 mm 60 = 600 mm 75 = 750 mm 90 = 900 mm	<b>H</b> L = 0.6 mm thk. M = 1.2 mm thk. H = 1.6 mm thk.	<b>H</b> G = Galvabond H = Hot Dip Galv S = 316 Stainless Steel A = Aluminium P = Painted	<b>K</b> K = includes all required Attachment Hooks	<b>RI or RO</b> RI = Rail In RO = Rail Out	<b>6</b> 3 = 300 mm 6 = 600 mm 9 = 900 mm <b>600 mm</b> Std. radius	<b>PC-COL</b> Painted finish to Kounis standard colour range
<p>NOTE: Rail In Ladder (RI) is a Kounis standard and will not show in a supply code. All Rail Out ladder will have a RO suffix shown in all supply codes.</p> <p>ORDERING EXAMPLE SHOWN: 4/70 Structural Cable Ladder 90° External Riser Peak Cover 150 mm wide HDG 600 radius c/w attachment hooks. Painted Finish to specification colour. Note: 45,30 &amp; 60° option shown after size (eg: 1545) code alternative 150 mm 45° Riser.</p>									

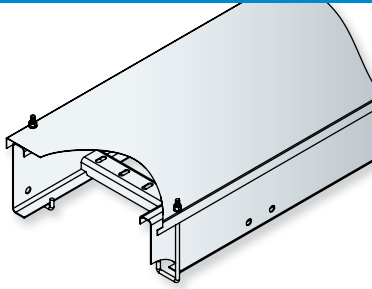
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## Notes



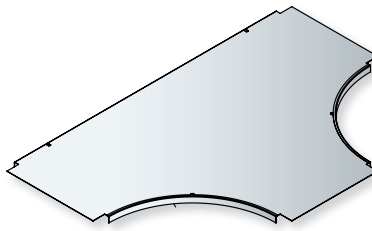
## SECTION 6: Cable Ladder Covers

Flat Cover



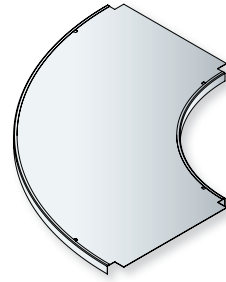
> 6:3

Tee Flat Cover



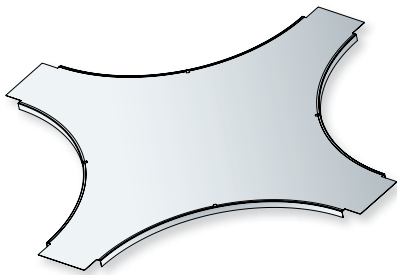
> 6:4

Bend Flat Cover



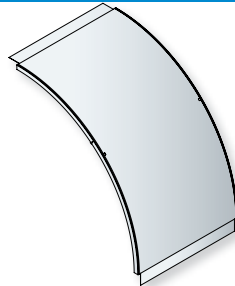
> 6:4

Cross Flat Cover



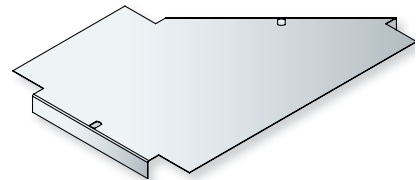
> 6:4

Risers Flat Cover



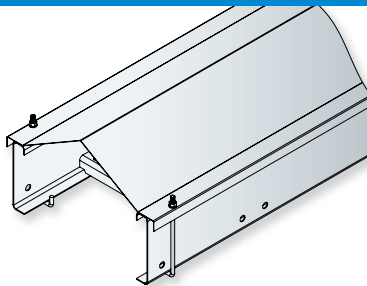
> 6:5

Reducers Flat Cover



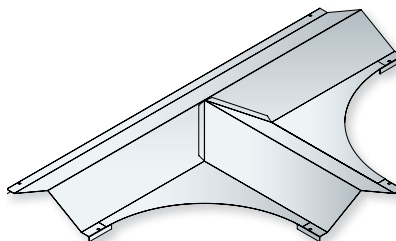
> 6:5

Peak Cover



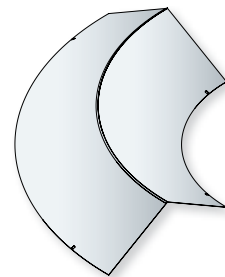
> 6:6

Tee Peak Cover



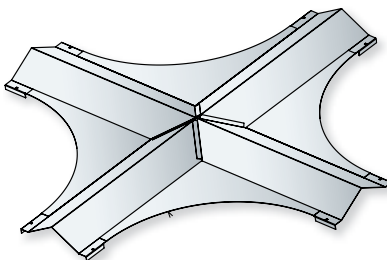
> 6:7

Bend Peak Cover



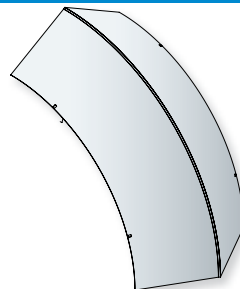
> 6:7

Cross Peak Cover



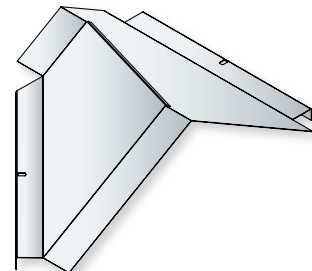
> 6:7

Risers Peak Cover



> 6:8

Reducers Peak Cover



> 6:8

# Cable Ladder Flat & Peak Covers

## General Description

The Kounis Group Cable Ladder Cover range was developed to suit all installations that require physical and ultraviolet protection from the surrounding environment.

The finished product is constructed from a variety of material thicknesses ranging from; **Light Duty** 0.6 mm, **Medium Duty** 1.2 mm and **Heavy Duty** 1.6 mm and finishes to suit any application or environment; **Galvabond**, Mild Steel **Hot Dip Galvanised**, 316 Grade **Stainless Steel** and **Aluminium**. All of which offer the following standard features and options:

- 3 m length
- Option of hook bolt or snug fit metal tek screw attachment
- Option of Flat or 30° peak
- Also available in 15° and 45° peak made to order
- Option of ventilation louvers
- A full range of fitting covers flat or peaked
- Engineer certification to withstand cyclonic area importance level 2 wind terrain category 1 conditions (Covers are recommended to be 1.6 mm thick Hot Dip Galvanised).

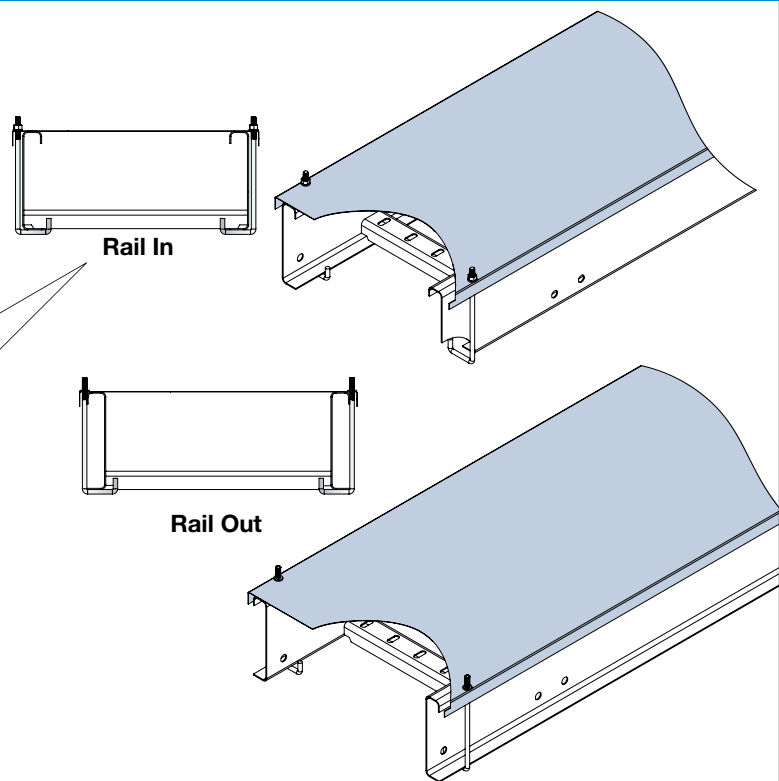
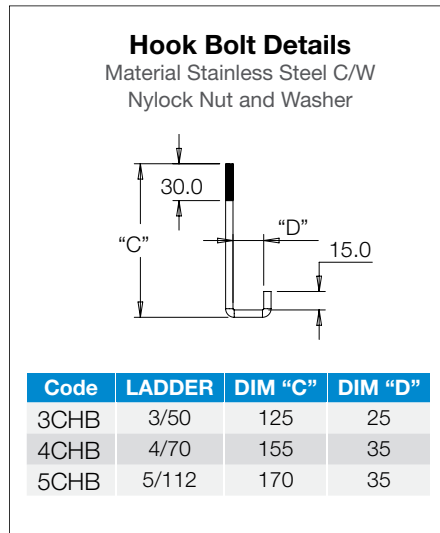
Painted finish available on request.

### Kounis Group Standard Colour Range

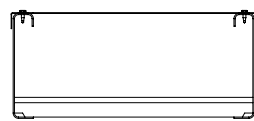
Optional Polyester Powder Coat finishes can be provided from our standard stock colours. Our range is White, Black, Orange and Grey Hammertone. Other colours or epoxy powder coat finish can be provided to firm orders.

## Cable Ladder Flat Covers

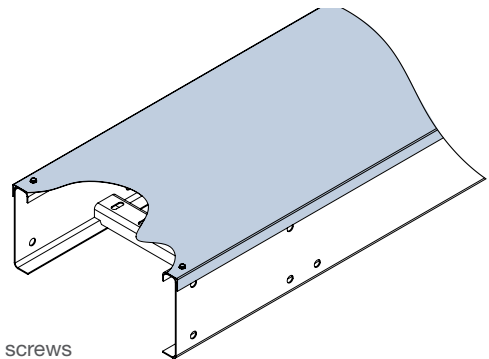
### Flat Cover Hook Bolt Fixing



### Flat Cover Snug Fit Fixing



Optional snug fit with self tapping screws



Flat cover lengths can be supplied with ventilation louvres to order.

HDG cover standards

1. WA supplied in 1.6 mm HDG (code HH)
2. Eastern States up to 1.2 mm HDG (code H)

### When Ordering

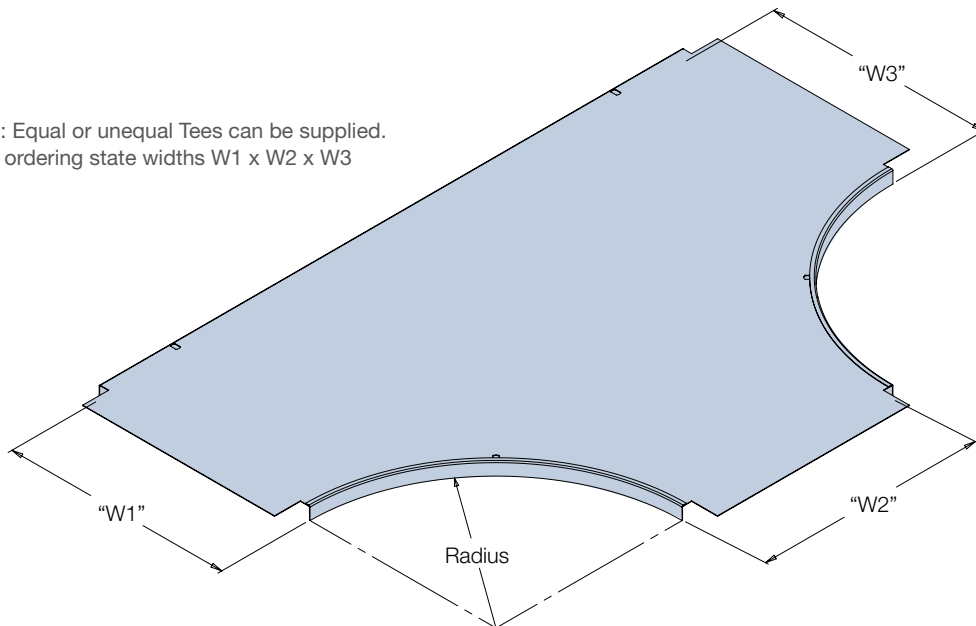
Range	Type	Size	Thickness	Std. Finish	Fastenings	Rail Direction	Fit	Finish
<b>3</b>	<b>FC</b>	<b>15</b>	<b>L</b>	<b>G</b>	<b>K</b>	<b>RI or RO</b>	<b>SF</b>	<b>PC-COL</b>
2 = 2/30	FC = Flat Cover	15 = 150 mm	L = 0.6 mm thk.	G = Galvabond	K = includes	RI = Rail In	SF = Snug Fit	PC-COL =
3 = 3/50	FCV = Flat Cover	30 = 300 mm	M = 1.2 mm thk.	H = Hot Dip Galv	all required	RO = Rail Out	(to order)	Paint
4 = 4/70	with louvre vents	45 = 450 mm	H = 1.6 mm thk.	S = 316	attachment		Note: no hook	Painted finish
5 = 5/112		60 = 600 mm		stainless steel	hooks		required	to Kounis
		75 = 750 mm		A = Aluminium				standard colour
		90 = 900 mm						range
NOTE: Rail In Ladder (RI) is a Kounis standard and will not show in a supply code. All Rail Out ladder will have RO suffix.				ORDERING EXAMPLE: 3/50 Cable Ladder Flat Cover 150 mm wide Light Duty Galvabond c/w attachment hooks. Painted finish to specification colour.				

E.&O.E.

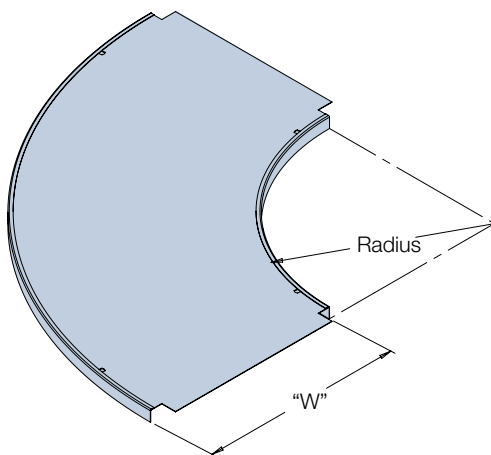
## Cable Ladder Flat Cover Fittings

### Tee Cover

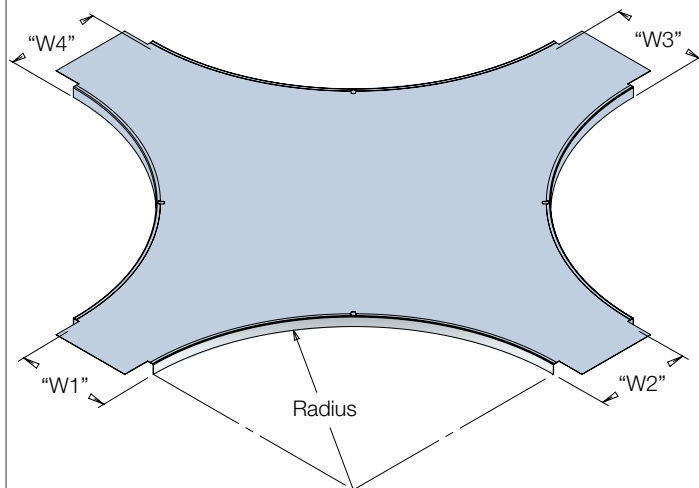
NOTE: Equal or unequal Tees can be supplied.  
When ordering state widths W1 x W2 x W3



### Bend Cover



### Cross Cover



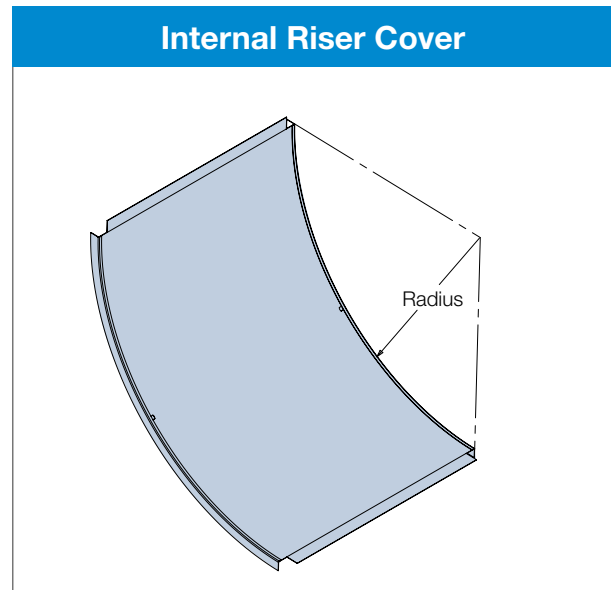
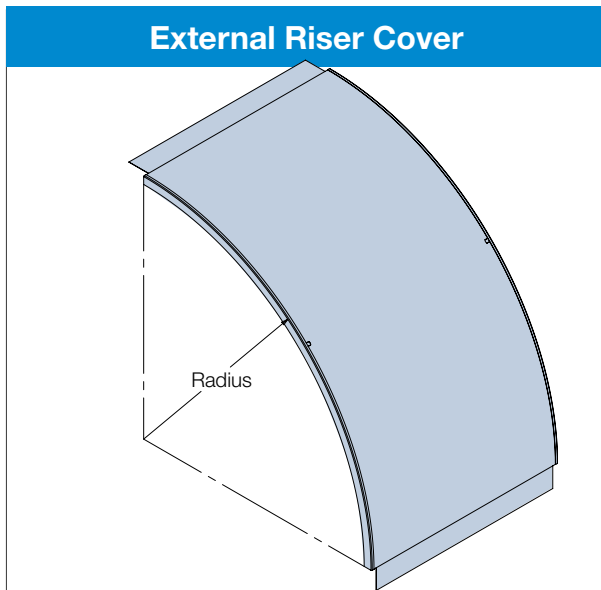
NOTE: Equal or unequal crosses can be supplied. When ordering state widths W1 x W2 x W3 x W4

### When Ordering

Range	Type	Fitting	Size	Thickness	Std.Finish	Fastenings	Rail Direction	Radius	Fit	Finish
<b>3</b>	<b>FC</b>	<b>T</b>	<b>15</b>	<b>L</b>	<b>G</b>	<b>K</b>	<b>RI or RO</b>	<b>3</b>	<b>SF</b>	<b>PC-COL</b>
2 = 2/30 3 = 3/50 4 = 4/70 5 = 5/112	FC = Flat Cover	T = Tee B = Bend C = Cross	15 = 150 mm 30 = 300 mm 45 = 450 mm 60 = 600 mm 75 = 750 mm 90 = 900 mm	L = 0.6 mm thk. M = 1.2 mm thk. H = 1.5 mm thk.	G = Galvabond H = Hot Dip Galv S = 316 Stainless Steel	K = Includes all required attachment hooks	RI = Rail In RO = Rail Out (see note)	3 = 300 mm 4 = 450 mm 6 = 600 mm 9 = 900 mm	SF = Snug Fit (to order) NOTE: No hooks required	PC-COL = Paint Painted finish to Kounis standard colour range
NOTE: Rail In Ladder (RI) is a Kounis standard and will not show in a supply code. All Rail Out ladder will have a RO suffix shown in all supply codes.					ORDERING EXAMPLE SHOWN: 3/50 Cable Ladder Tee Flat Cover 150 mm Wide Light Duty Galvabond 300 mm rad c/w attachment hooks. Painted Finish to specification colour.					

E.&O.E.

## Cable Ladder Flat Cover Fittings

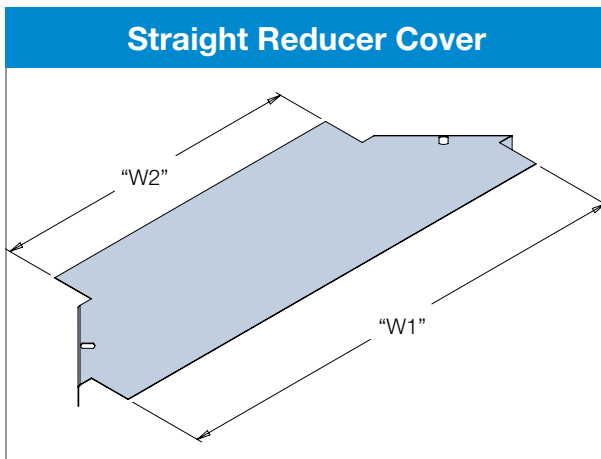


### When Ordering

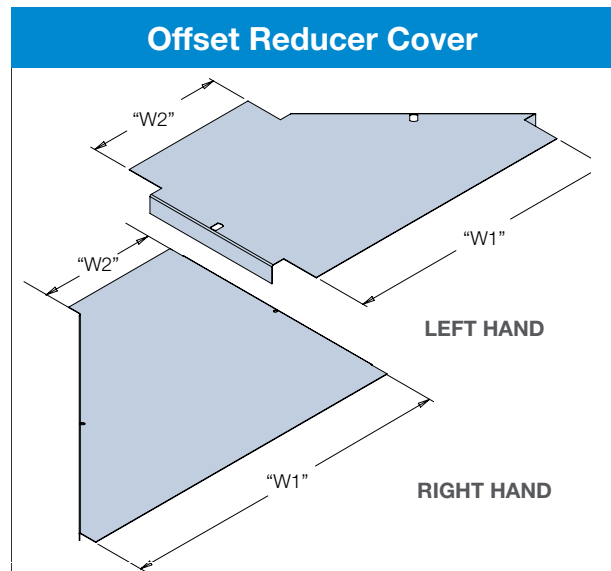
Range	Type	Fitting	Size	Thickness	Std.Finish	Fastenings	Rail Direction	Radius	Fit	Finish
<b>3</b>	<b>FC</b>	<b>RX</b>	<b>15</b>	<b>L</b>	<b>G</b>	<b>K</b>		<b>3</b>	<b>SF</b>	<b>PC-COL</b>
2 = 2/30 3 = 3/50 4 = 4/70 5 = 5/112	FC = Flat Cover	RX = External Riser RI = Internal Riser (see Note 2)	15 = 150 mm 30 = 300 mm 45 = 450 mm 60 = 600 mm 75 = 750 mm 90 = 900 mm	L = 0.6 mm thk. M = 1.2 mm thk. H = 1.6 mm thk.	G = Galvabond H = Hot Dip Galv S = 316 Stainless Steel A = Aluminium	K = Includes all required attachment hooks	RI = Rail In RO = Rail Out (see Note 1)	3 = 300 mm 4 = 450 mm 6 = 600 mm 9 = 900 mm	SF = Snug Fit (to order) NOTE: No hooks required	PC-COL = Paint Painted finish to Kounis standard colour range

NOTE 1: Riser Covers fit both Rail In and Rail Out Ladder systems.  
NOTE 2: Type 4 and 5 RX External Riser Cover are identical except hooks i.e. 4-5 Range.

ORDERING EXAMPLE SHOWN: 3/50 Cable Ladder 90° External Riser Flat Cover 150 mm wide Light Duty Galvabond 300 mm rad c/w attachment hooks. Painted finish to specification colour.



NOTE: When ordering state widths W1 x W2



### When Ordering

Range	Type	Fitting	Size	Thickness	Std.Finish	Fastenings	Rail Direction	Fit	Finish
<b>3</b>	<b>FC</b>	<b>SR</b>	<b>3015</b>	<b>L</b>	<b>G</b>	<b>K</b>		<b>SF</b>	<b>PC-COL</b>
2 = 2/30 3 = 3/50 4 = 4/70 5 = 5/112	FC = Flat Cover	SR = Straight Reducer LR = Left Reducer RR = Right Reducer	15 = 150 mm 30 = 300 mm 45 = 450 mm 60 = 600 mm 75 = 750 mm 90 = 900 mm	L = 0.6 mm M = 1.2 mm H = 1.6 mm	G = Galvabond H = Hot Dip Galv S = 316 Stainless Steel A = Aluminium	K = Includes all required attachment hooks	RI = Rail In RO = Rail Out (see note)	SF = Snug Fit (to order) NOTE: No hooks required	PC-COL = Paint Painted finish to Kounis standard colour range

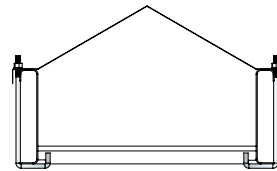
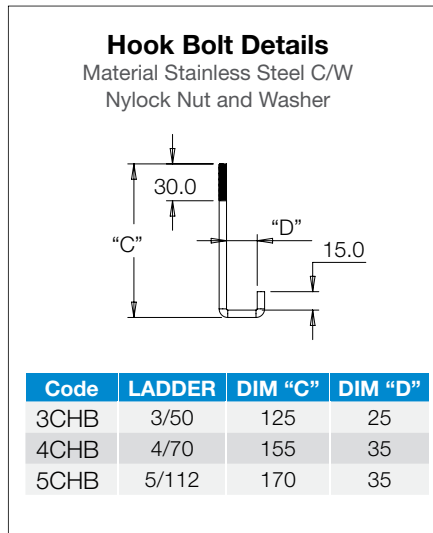
NOTE: Reducers Covers fit both Rail In and Rail Out Ladder systems.

ORDERING EXAMPLE SHOWN: 3/50 Cable Ladder Straight Reducer Flat Cover 150 – 300 mm Wide Light Duty Galvabond c/w attachment hooks. Painted finish to specification colour.

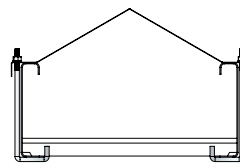
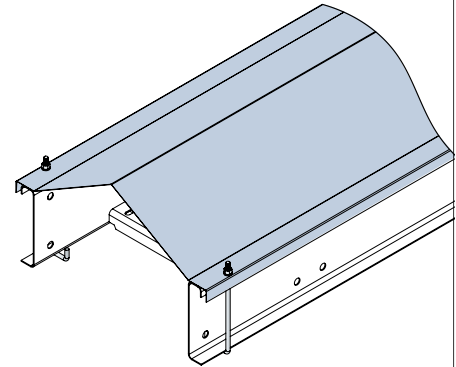
E.&O.E.

## Cable Ladder Peaked Covers

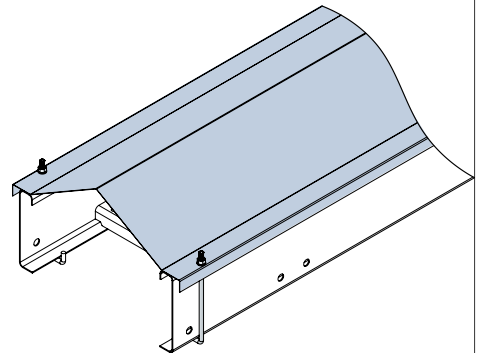
### Peaked Cover Hook Bolt Fixing



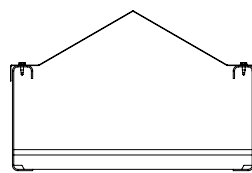
Rail Out



Rail In

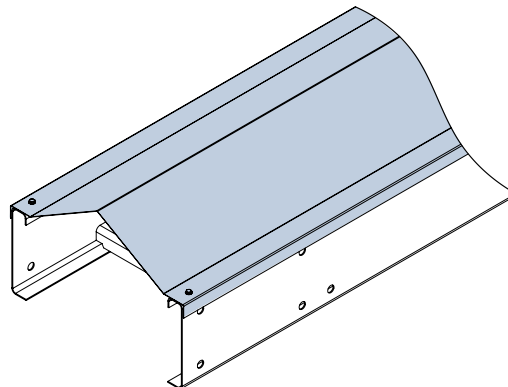


### Peaked Cover Snug Fit Fixing



Rail In

Optional snug fit with self tapping screws



HDG cover standards

1. WA supplied in 1.6 mm HDG (code HH)
2. Eastern States up to 1.2 mm HDG (code H)

Peak cover lengths can be supplied with ventilation louvres to order.

### When Ordering

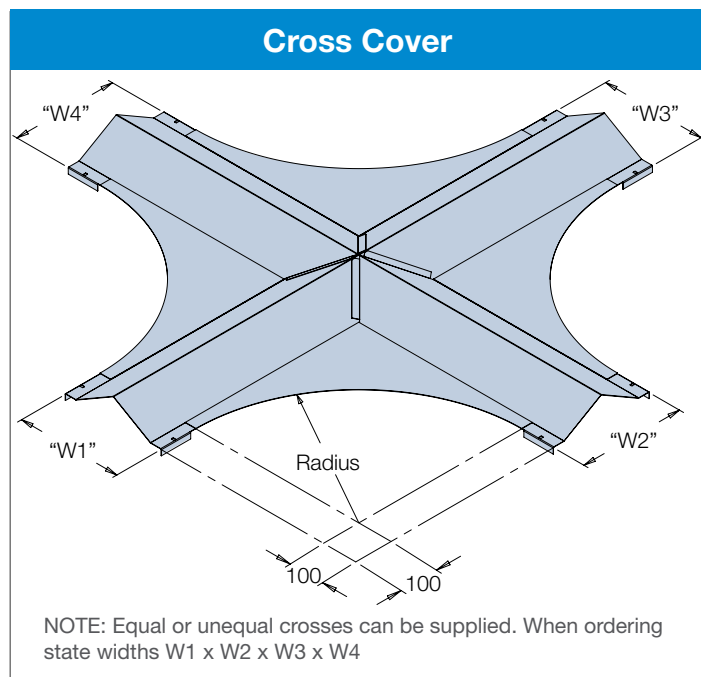
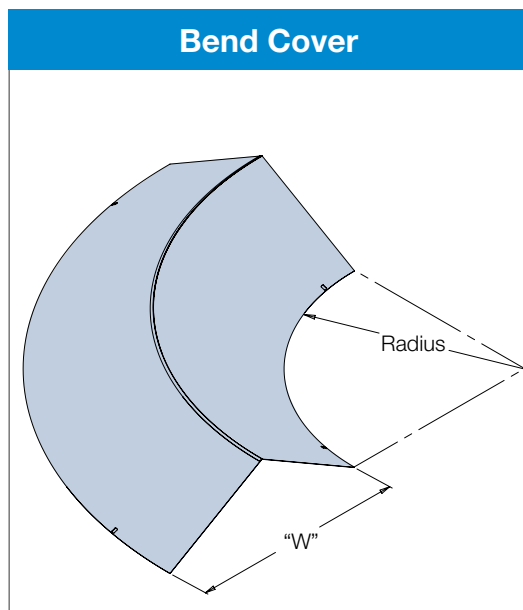
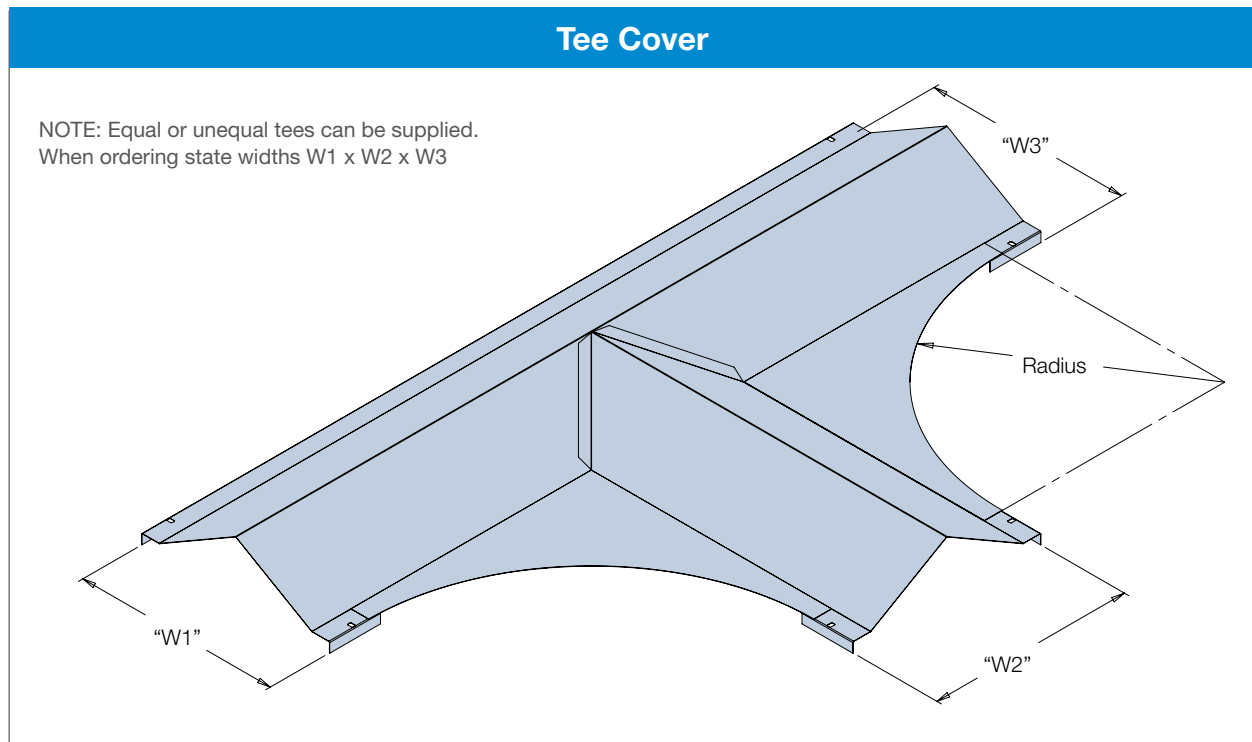
Range	Type	Size	Thickness	Std. Finish	Fastenings	Rail Direction	Fit	Finish
<b>3</b> 2 = 2/30 3 = 3/50 4 = 4/70 5 = 5/112	<b>PC</b> PC = Peak Cover PCV = Peak Cover with louvre vents	<b>15</b> 15 = 150 mm 30 = 300 mm 45 = 450 mm 60 = 600 mm 75 = 750 mm 90 = 900 mm	<b>L</b> L = 0.6 mm thk. M = 1.2 mm thk. H = 1.6 mm thk.	<b>G</b> G = Galvabond H = Hot Dip Galv S = 316 Stainless Steel A = Aluminium	<b>K</b> K = includes all required attachment hooks	<b>RI or RO</b> RI = Rail in RO = Rail Out (see note)	<b>SF</b> SF = Snug Fit (to order) Note: No hooks required	<b>PC-COL</b> PC-COL = Paint Painted finish to Kounis standard colour range

NOTE: Rail In Ladder (RI) is a Kounis standard and will not show in a supply code. All Rail Out ladder will have RO suffix show in all supply codes.

ORDERING EXAMPLE SHOWN: 3/50 Cable Ladder Peak Cover 150 mm Wide Light Duty Galvabond c/w attachment hooks. Painted finish to specification colour.

E.&O.E.

# Cable Ladder Peak Cover Fittings



## When Ordering

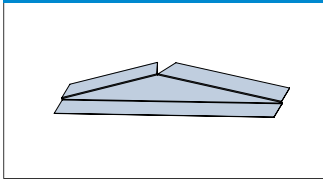
Range	Type	Fitting	Size	Thickness	Std.Finish	Fastenings	Rail Direction	Radius	Fit	Finish
<b>3</b>	<b>PC</b>	<b>T</b>	<b>15</b>	<b>L</b>	<b>G</b>	<b>K</b>	<b>RO</b>	<b>3</b>	<b>SF</b>	<b>PC-COL</b>
2 = 2/30 3 = 3/50 4 = 4/70 5 = 5/112	PC = Peak Cover	T = Tee B = Bend C = Cross	15 = 150 mm 30 = 300 mm 45 = 450 mm 60 = 600 mm 75 = 750 mm 90 = 900 mm	L = 0.6mm thk. M = 1.2mm thk. H = 1.5mm thk	G = Galvabond H = Hot Dip Galv S = 316 Stainless Steel	K = Includes all required attachment hooks	RI = Rail In RO = Rail Out NB: Bends Suit both rail types so leave clear	3 = 300 mm 4 = 450 mm 6 = 600 mm 9 = 900 mm	SF = Snug Fit (to order) <b>NOTE:</b> No hooks required	PC-COL = Paint Painted finish to Kounis standard colour range
NOTE: Rail In Ladder (RI) is a Kounis standard and will not show in a supply code. All Rail Out ladder will have a RO suffix shown in all supply codes.					ORDERING EXAMPLE SHOWN: 3/50 Cable Ladder Tee Peak Cover 150 mm Wide Light Duty Galvabond 300mm rad c/w attachment hooks. Painted Finish to specification colour.					

E.&O.E.

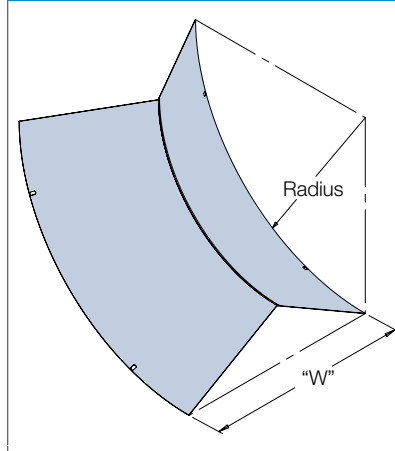


## Cable Ladder Peak Cover Fittings

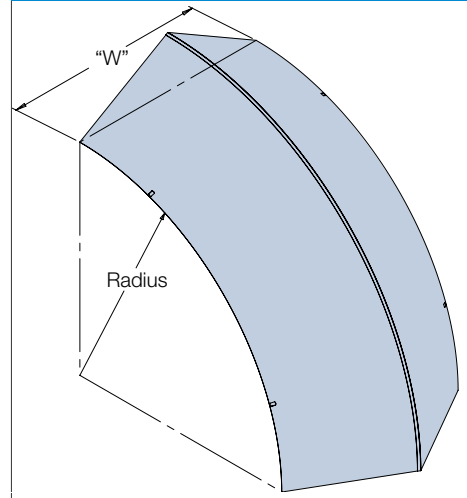
### Peak Cover End Cap



### Internal Riser Cover



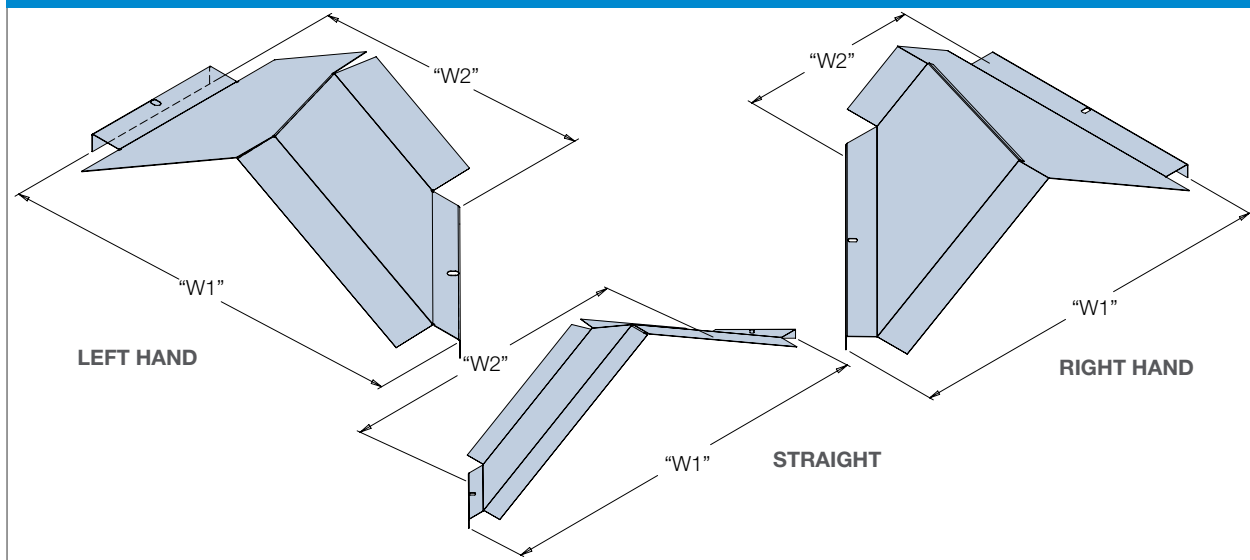
### External Riser Cover



### When Ordering

Range	Type	Fitting	Size	Thickness	Std.Finish	Fastenings	Rail Direction	Radius	Fit	Finish
<b>3</b> 2= 2/30 3= 3/50 4= 4/70 5= 5/112	<b>PC</b> PC= Peak Cover	<b>RX</b> RX= External Riser RI= Internal Riser E= End Cap See NOTE 2	<b>15</b> 15= 150 mm 30= 300 mm 45= 450 mm 60= 600 mm 75= 750 mm 90= 900 mm	<b>L</b> L= 0.6 mm thk. M= 1.2 mm thk. H= 1.5 mm thk.	<b>G</b> G= Galvabond H= Hot Dip Galv S= 316 Stainless steel A= Aluminium	<b>K</b> K= Includes all required attachment hooks	RI= Rail In RO= Rail out See NOTE 1	<b>3</b> 3= 300 mm 4= 450 mm 6= 600 mm 9= 900 mm	<b>SF</b> SF= Snug Fit (to order) NOTE: No hooks required	<b>PC-COL</b> PC-COL= paint Painted finish to Kounis standard colour range
NOTE 1: Riser Covers Fit both Rail In and Rail Out Ladder systems NOTE 2: Type 4 & 5 RX External Riser Covers are identical except hooks i.e. 4-5 Range.					ORDERING EXAMPLE SHOWN: 3/50 Cable Ladder External Riser Peak Cover 150 mm wide Light Duty Galvabond 300 mm rad c/w attachment hooks. Painted finish to specification colour.					

### Offset Reducer Cover

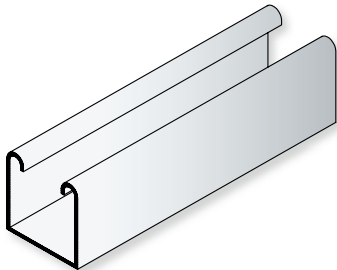
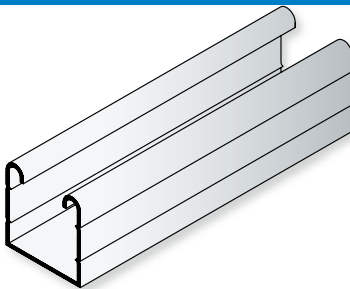
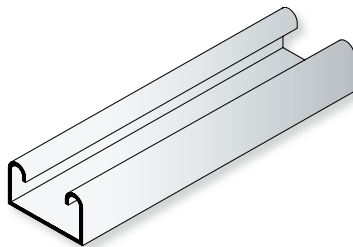
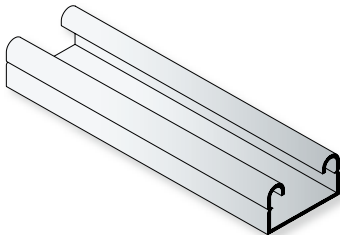
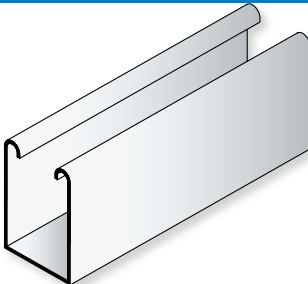
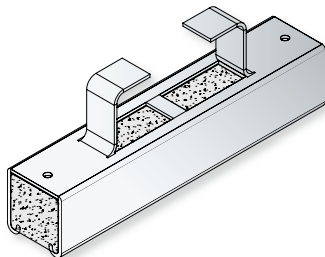
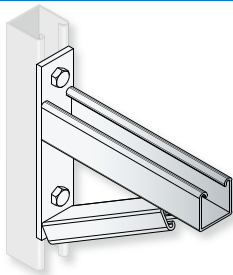
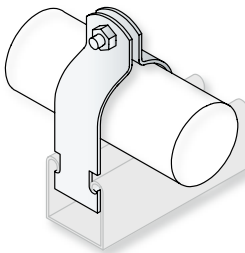


### When Ordering

Range	Type	Fitting	Size	Thickness	Std.Finish	Fastenings	Rail Direction	Fit	Finish
<b>3</b> 2= 2/30 3= 3/50 4= 4/70 5= 5/112	<b>PC</b> PC = Peak Cover	<b>SR</b> S = Straight Reducer LR = Left Reducer RR = Right Reducer	<b>3015</b> 15 = 150 mm 30 = 300 mm 45 = 450 mm 60 = 600 mm 75 = 750 mm 90 = 900 mm	<b>L</b> L = 0.6 mm thk. M = 1.2 mm thk. H = 1.6 mm thk.	<b>G</b> G = Galvabond H = Hot Dip Galv S = 316 Stainless Steel A = Aluminium	<b>K</b> K = Includes all required attachment hooks	RI = Rail In RO = Rail Out (see note)	<b>SF</b> SF = Snug Fit (to order) NOTE: No hooks required	<b>PC-COL</b> PC-COL = Paint Painted Finish to Kounis standard colour range
NOTE: Reducer Covers fit both Rail-In and Rail-Out ladder systems.					ORDERING EXAMPLE SHOWN: 3/50 Cable Ladder Straight Reducer Peak Cover 300 to 150 mm wide Light Duty Galvabond c/w attachment hooks. Painted finish to specification colour.				

E.&O.E.

## SECTION 7: K-Strut Support Systems

K-1000 Channel	K-2000 Channel	K-3300 Channel
		
> 7:3	> 7:4	> 7:5
K-4000 Channel	K-5500 Channel	Concrete Insert Channel
		
> 7:6	> 7:7	> 7:8
Cantilever Brackets	Pipe Cable & Conduit Clamps	
		
> 7:10	> 7:11	

### K-Strut Fittings

Column Support Applications > 7:12	Hanger Support Applications > 7:13	Channel Carriages Angle Fittings > 7:14
90° Fittings > 7:15	Flat Fittings "U" & "Z" Fittings > 7:16	Winged Shape Fittings / Lighting Supports > 7:17
Joiner Boxes / PVC Accessories > 7:18	Adaptable Beam Clamps / Pipe Clamps > 7:19	Support / Hangers > 7:20
HDG Mild Steel Products > 7:21	Channel Nuts / Stud Nuts > 7:22	Fasteners > 7:23-24
Weight Tables > 7:25-26	Alpha Numeric Listing > 7:27-28	Key Word Index > 7:29

E.&O.E.

# K-Strut Support Systems

## General Description

The Kounis Group K-Strut Support Systems were designed as a site adaptable mechanical support method; this product range complements almost any installation of Cable, Pipe, HVAC or general support structure.

The key to making any installation easy and ensuring performance of the final product is to ensure selection of the correct parts and finishes; below is some key information you may require to assist selection:

## Product Finishes

Mild Steel post production **Hot Dip Galvanised** surface treatment to AS/NZS1365, AS1594 and AS/NZS4680

316 Grade **Stainless Steel**

Mild Steel post production **Zinc Plated** surface treatment to AS1789

Mild Steel **Mill Finish** NO surface treatment

Painted finish available on request.

## Load Ratings

Allowable loading for the K-Strut product range is listed in tables located on the relating product page. All published slip out, pull out and load ratings have been derived by calculation based on ultimate load capacity prior to product failure taking into account a safety factor of 1.5.

K-Strut channel is typically used in either a support beam or support column arrangement.

**Support Beam** technical data lists maximum allowable uniform load and mid span deflection at a range of spans. Together with this data we have designated a loading to span which will give a deflection ratio of 1/200 of the span. This will give a recognized practical beam deflection to minimize sagging of the beam under load.

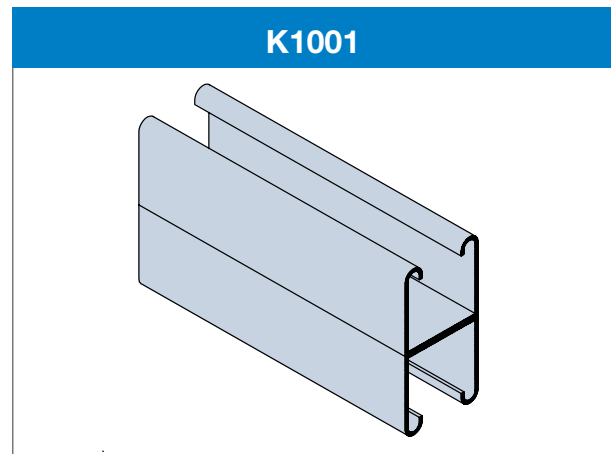
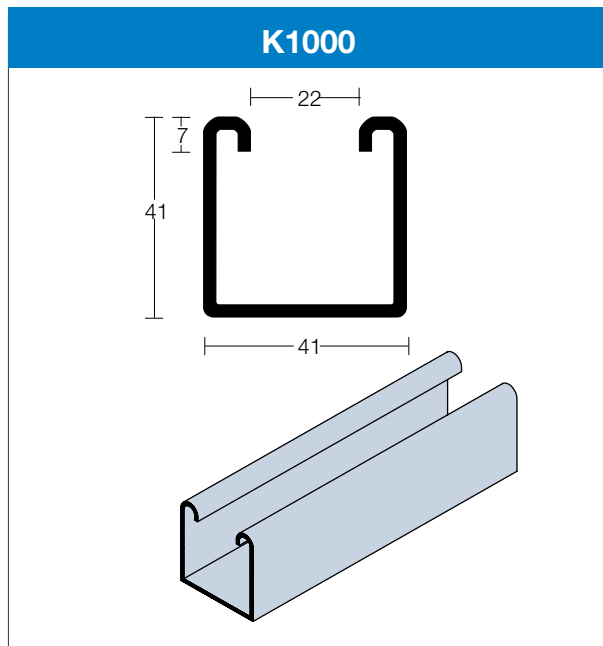
**Support Column** technical data lists maximum lateral loading at a range on unbraced heights.

## Product Weights

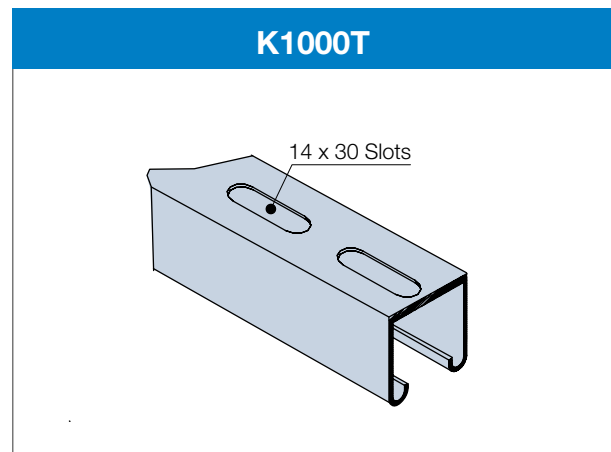
All itemised product weights are located under the alpha numeric listing at the back section of this catalogue.

## K1000 Series Channel

- 6 m length
- K1000 series channel is manufactured from 2.5 mm Steel or 2.0 mm 316 Grade Stainless Steel
- Slotted option available
- Special cut to length sizes available on request
- Welded combination channel available on request
- Painted finish available on request



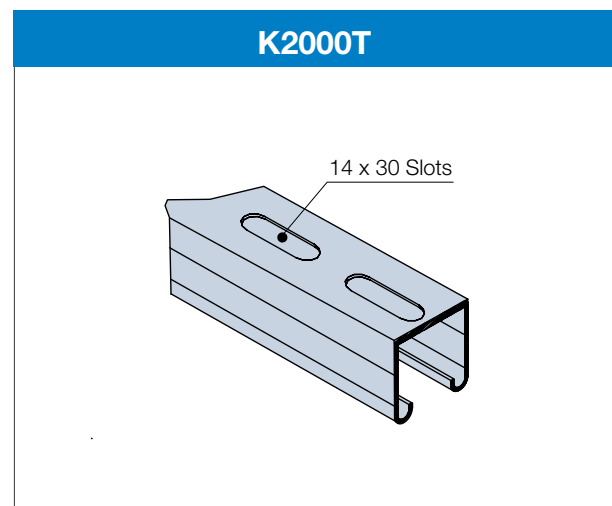
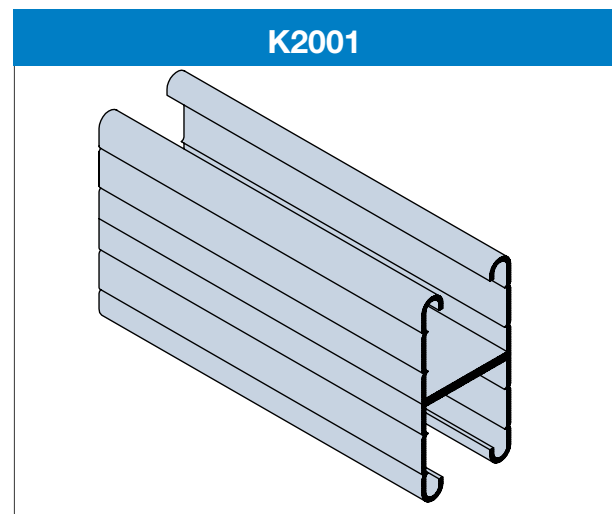
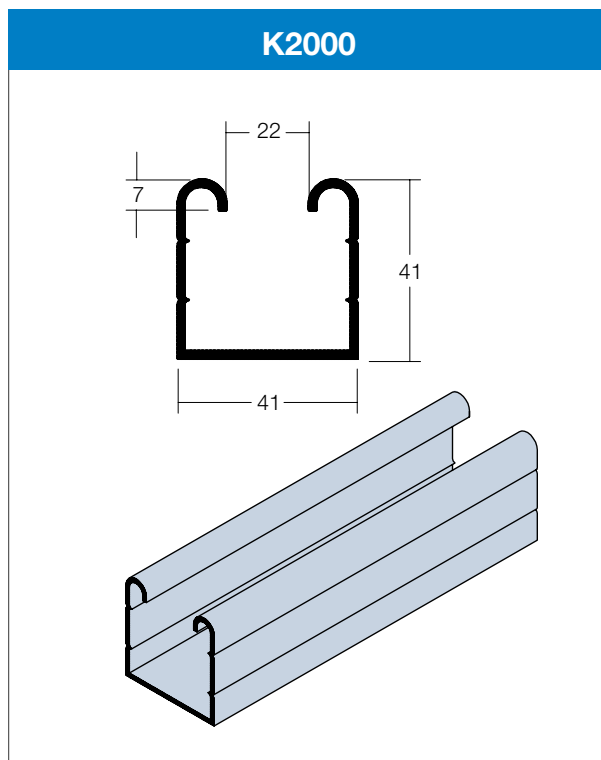
AVAILABLE FINISH	
SUFFIX	DESCRIPTION
H	Hot Dip Galvanised
G	Galvabond
S	316 Stainless Steel
Z	Zinc Passivated
M	Mild Steel Mill Finish
P	Painted



TECHNICAL DETAILS K1000			MASS 2.6 kg/m											
DATA	SPAN (mm)		600	750	1000	1500	2000	2500	3000	3500	4000	4500	5000	6000
BEAM LOADING	Max Allowed Uniform Load kN	K1000	7.5	6.0	4.5	3.0	2.2	1.8	1.5	1.3	1.1	1.0	0.9	0.7
		K1001	13.3	13.3	12.7	8.5	6.4	5.1	4.2	3.6	3.2	2.8	2.5	2.1
	Deflection at Uniform Load mm	K1000	1.0	2.0	4.0	9.0	15.0	24.0	34.0	47.0	60.0	78.0	96.0	
		K1001	0	1.0	2.0	5.0	9.0	13.0	19.0	26.0	35.0	43.0	53.0	77.0
	Uniform Load at Span/200 Deflection kN	K1000	7.5	6.0	4.5	2.6	1.5	0.9	0.7	0.5	0.4	0.3	0.2	0.2
		K1001	13.3	13.3	12.7	8.5	6.4	4.7	3.3	2.4	1.8	1.5	1.2	0.8
The allowable loads shown are derived from dividing the ultimate calculated load values by a 1.5 Factor of Safety														
DATA	UNBRACED HEIGHT (mm)		600	750	1000	1250	1500	1750	2000	2500	2750			
COLUMN LOADING	Max Allowed Lateral Load kN	K1000	15.5	14.6	13.1	11.5	10.2	9.2	8.4	7.0	6.5			
		K1001	28.9	28.5	27.8	27.0	25.9	24.7	23.4	20.0	18.2			

## K2000 Series Channel

- 6 m length
- K2000 series channel is manufactured from 1.6 mm Steel
- Slotted option available
- Special cut to length sizes available on request
- Welded combination channel available on request
- Painted finish available on request



AVAILABLE FINISH	
SUFFIX	DESCRIPTION
H	Hot Dip Galvanised
G	Galvabond
S	316 Stainless Steel
Z	Zinc Passivated
M	Mild Steel Mill Finish
P	Painted

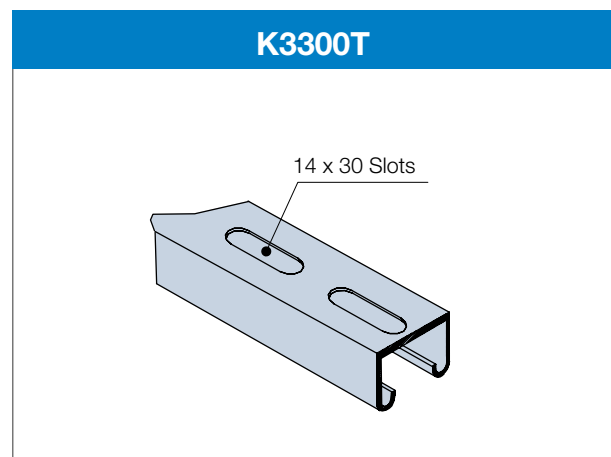
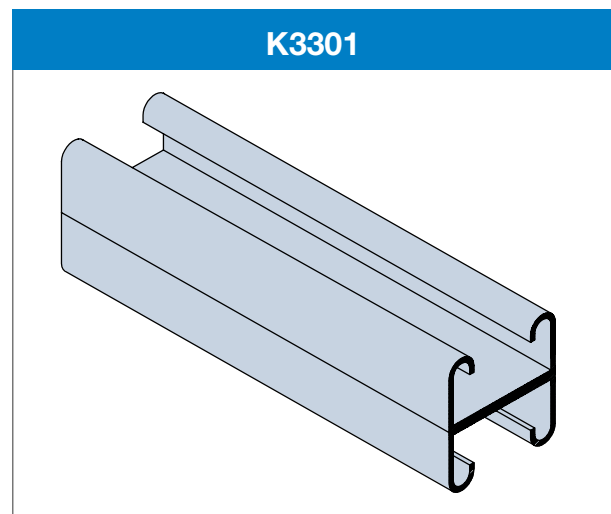
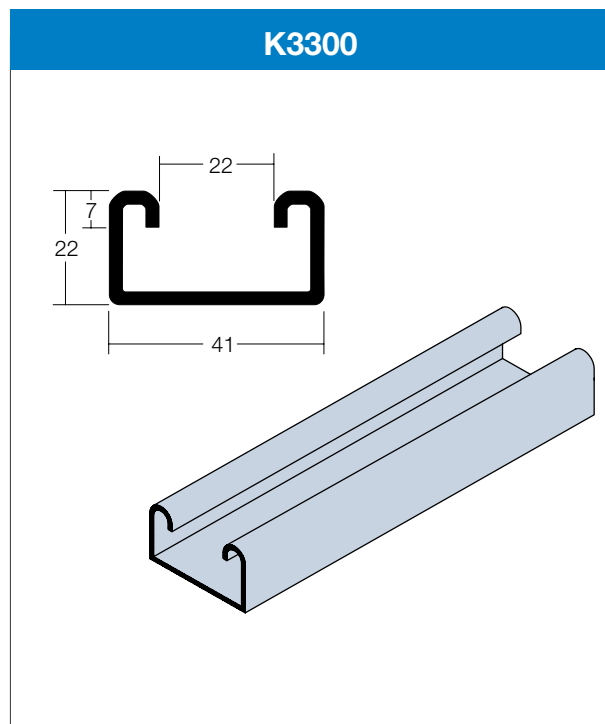
The allowable loads shown are derived from dividing the ultimate calculated load values by a 1.5 Factor of Safety

TECHNICAL DETAILS K2000			MASS 1.8 kg/m											
DATA	SPAN (mm)		600	750	1000	1500	2000	2500	3000	3500	4000	4500	5000	6000
BEAM LOADING	Max Allowed Uniform Load kN	K2000	4.5	3.6	2.7	1.8	1.3	1.1	0.9	0.8	0.7	0.6	0.5	0.4
		K2001	8.0	8.0	7.6	5.1	3.8	3.1	2.5	2.2	1.9	1.7	1.5	1.3
	Deflection at Uniform Load mm	K2000	1.0	2.0	4.0	9.0	15.0	24.0	34.0	47.0	60.0	78.0	96.0	129.0
		K2001	0	1.0	2.0	5.0	9.0	13.0	19.0	26.0	35.0	43.0	53.0	77.0
	Uniform Load at Span/200 deflection kN	K2000	4.5	3.6	2.7	1.6	0.9	0.5	0.4	0.3	0.2	0.2	.1	.1
		K2001	8.0	8.0	7.6	5.1	3.8	2.8	2.0	1.4	1.1	0.9	0.7	0.5

E.&O.E.

## K3300 Series Channel

- 6 m length
- K3300 series channel is manufactured from 2.5 mm Steel or 2.0 mm 316 Grade Stainless Steel
- Slotted option available
- Special cut to length sizes available on request
- Welded combination channel available on request
- Painted finish available on request



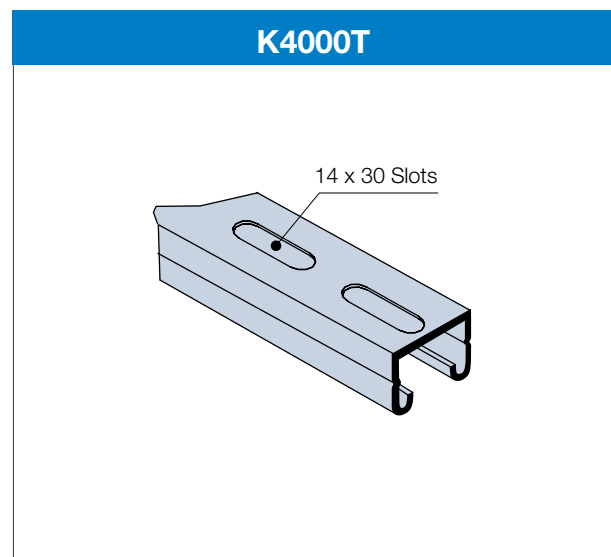
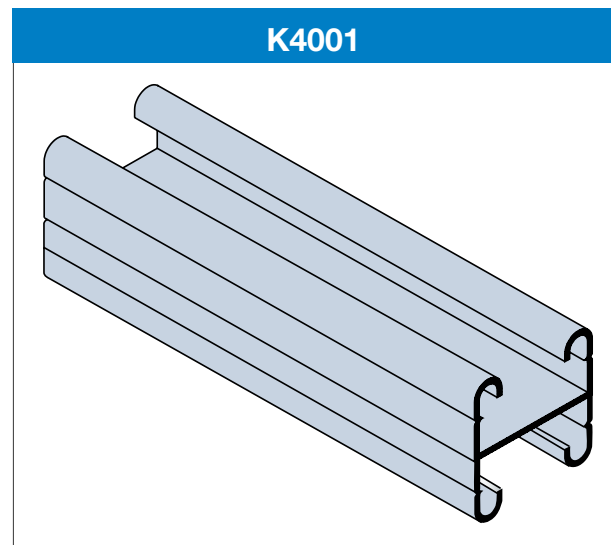
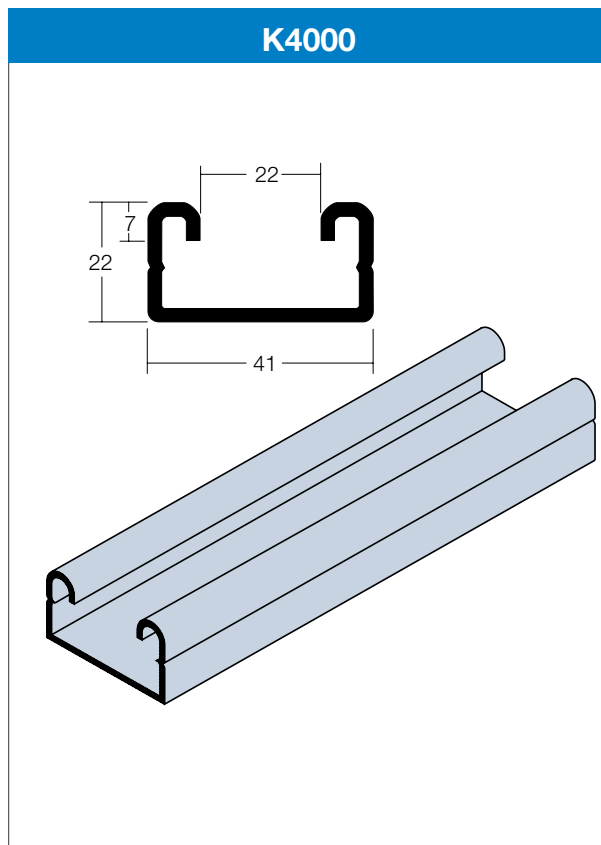
AVAILABLE FINISH	
SUFFIX	DESCRIPTION
H	Hot Dip Galvanised
G	Galvabond
S	316 Stainless Steel
Z	Zinc Passivated
M	Mild Steel Mill Finish
P	Painted

TECHNICAL DETAILS K3300			MASS 1.9 kg/m											
DATA	SPAN (mm)		600	750	1000	1500	2000	2500	3000	3500	4000	4500	5000	6000
BEAM LOADING	Max Allowed Uniform Load kN	K3300	2.7	2.2	1.6	1.1	0.8	0.6	0.5	0.5	0.4	0.4	0.3	0.3
		K3301	7.5	6.0	4.5	3.0	2.3	1.8	1.5	1.3	1.1	1.0	0.9	0.8
	Deflection at Uniform Load mm	K3300	2.0	4.0	7.0	16.0	27.0	39.0	57.0	90.0	107.0	153.0	157.0	272.0
		K3301	1.0	2.0	4.0	9.0	16.0	25.0	36.0	49.0	62.0	81.0	100.0	153.0
	Uniform Load at Span/200 deflection kN	K3300	2.7	2.1	1.2	0.5	0.3	0.2	0.1	0.1	0.1	0.1	-	-
		K3301	7.5	6.0	4.5	2.0	1.4	0.9	0.6	0.5	0.4	0.3	0.2	-
The allowable loads shown are derived from dividing the ultimate calculated load values by a 1.5 Factor of Safety														
DATA	UNBRACED HEIGHT (mm)		600	750	1000	1250	1500	1750	2000	2500	2750			
COLUMN LOADING	Max Allowed Lateral Load kN	K3300	9.6	8.9	7.7	6.2	5.0	4.1	-	-	-			
		K3301	18.7	18.1	16.9	15.6	14.1	12.5	10.9	8.5	7.5			

E.&O.E.

## K4000 Series Channel

- 6 m length
- K4000 series channel is manufactured from 1.6 mm Steel
- Slotted option available
- Special cut to length sizes available on request
- Welded combination channel available on request
- Painted finish available on request



AVAILABLE FINISH	
SUFFIX	DESCRIPTION
<b>H</b>	Hot Dip Galvanised
<b>G</b>	Galvabond
<b>S</b>	316 Stainless Steel
<b>Z</b>	Zinc Passivated
<b>M</b>	Mild Steel Mill Finish
<b>P</b>	Painted

The allowable loads shown are derived from dividing the ultimate calculated load values by a 1.5 Factor of Safety.

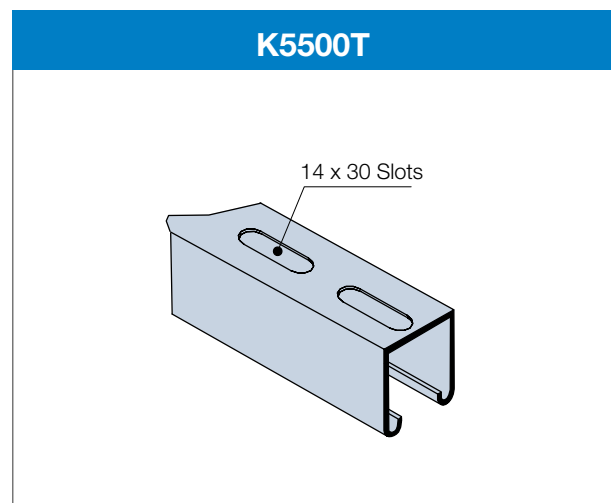
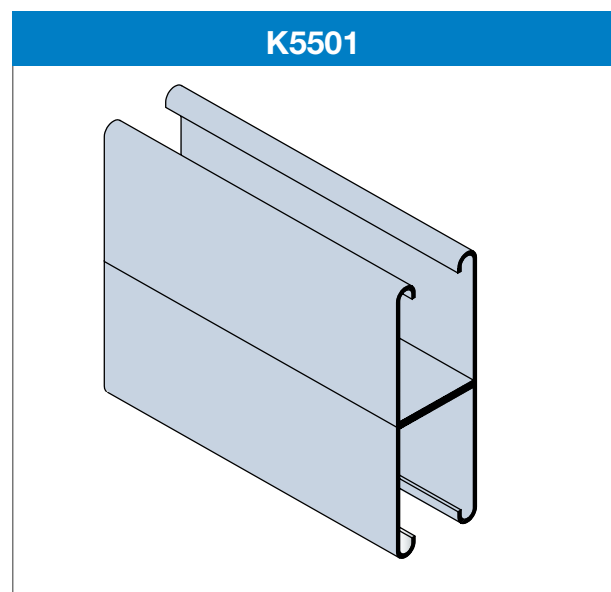
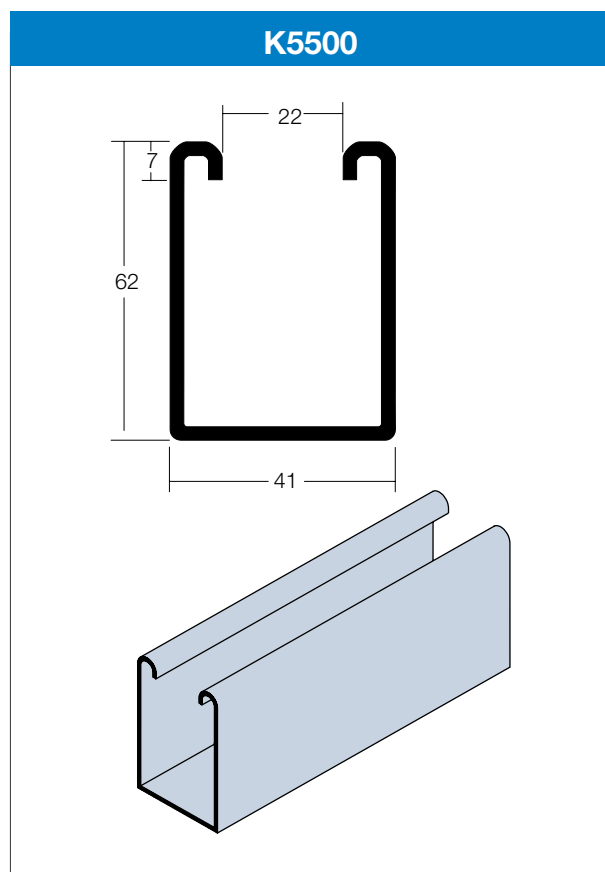
TECHNICAL DETAILS K4000			MASS 1.3 kg/m											
DATA	SPAN (mm)		600	750	1000	1500	2000	2500	3000	3500	4000	4500	5000	6000
<b>BEAM LOADING</b>	Max Allowed Uniform Load kN	K4000	1.6	1.3	1.0	0.7	0.5	0.4	0.3	0.3	0.2	0.2	0.2	0.2
		K4001	4.5	3.6	2.7	1.8	1.4	1.1	0.9	0.8	0.7	0.6	0.5	0.5
	Deflection at Uniform Load mm	K4000	2.0	4.0	7.0	16.0	27.0	39.0	57.0	90.0	107.0	153.0	157.0	272.0
		K4001	1.0	2.0	4.0	9.0	16.0	25.0	36.0	49.0	62.0	81.0	100.0	153.0
	Uniform Load at Span/200 deflection kN	K4000	1.6	1.3	0.7	0.3	0.2	0.1	0.1	-	-	-	-	-
		K4001	4.5	3.6	2.7	1.2	0.8	0.5	0.4	0.3	0.2	0.2	0.1	-

E.&O.E.



## K5500 Series Channel

- 6 m length
- K5500 series channel is manufactured from 2.5 mm Steel or 2.0 mm 316 Grade Stainless Steel
- Slotted option available
- Special cut to length sizes available on request
- Welded combination channel available on request
- Painted finish available on request



AVAILABLE FINISH	
SUFFIX	DESCRIPTION
H	Hot Dip Galvanised
G	Galvabond
Z	Zinc Passivated
M	Mild Steel Mill Finish
P	Painted

**When Ordering** add suffix to end of product code

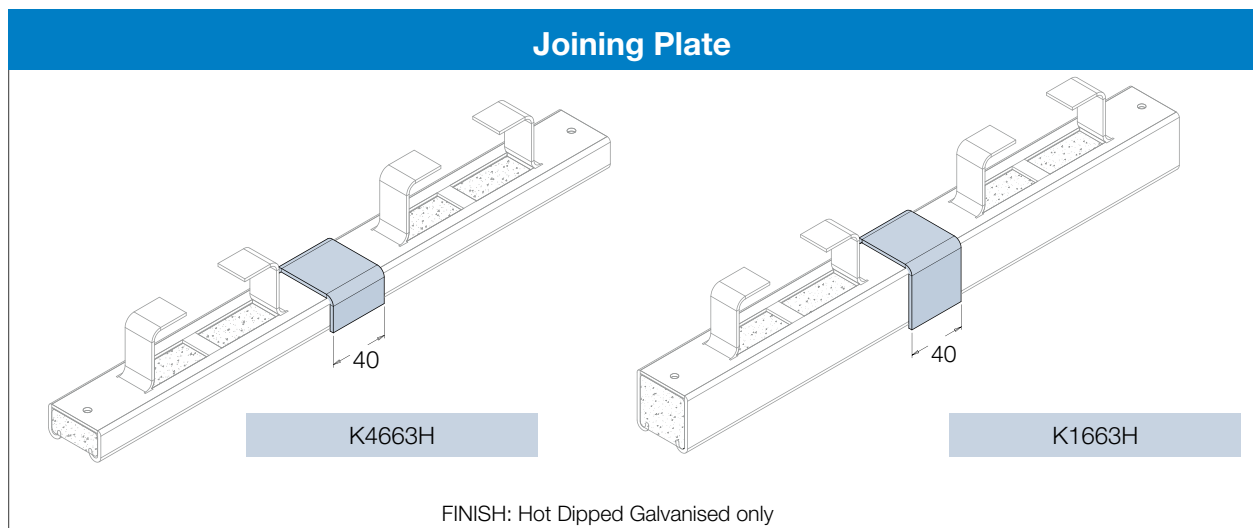
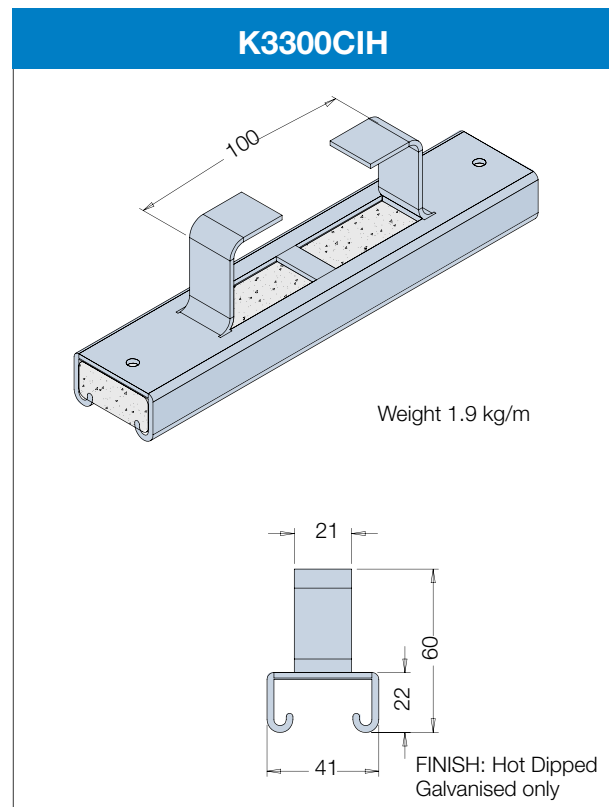
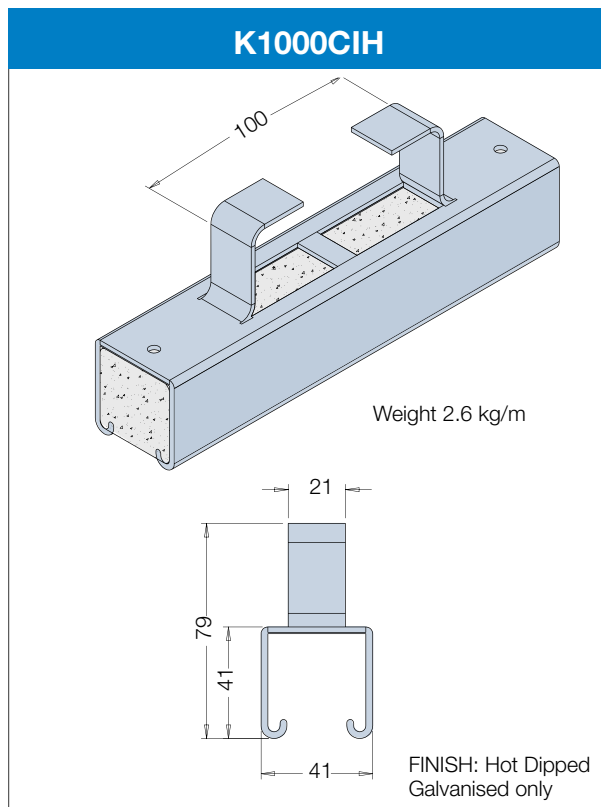
The allowable loads shown are derived from dividing the ultimate calculated load values by a 1.5 Factor of Safety.

TECHNICAL DETAILS K5500			MASS 3.4 kg/m											
DATA	SPAN (mm)		600	750	1000	1500	2000	2500	3000	3500	4000	4500	5000	6000
BEAM LOADING	Max Allowed Uniform Load kN	K5500	14.3	11.4	8.6	5.7	4.3	3.4	2.9	2.4	2.1	1.9	1.7	1.4
		K5501	19.5	19.5	17.3	11.5	8.6	6.9	5.8	4.9	4.3	3.8	3.5	2.9
	Deflection at Uniform Load mm	K5500	1.0	1.0	3.0	6.0	11.0	16.0	24.0	32.0	41.0	53.0	65.0	93.0
		K5501	0	0	1.0	2.0	4.0	6.0	9.0	12.0	16.0	20.0	25.0	36.0
	Uniform Load at Span/200 deflection kN	K5500	14.3	11.4	8.6	5.7	4.1	2.6	1.8	1.3	1.0	0.8	0.7	0.5
		K5501	19.5	19.5	17.3	11.5	8.6	6.9	5.8	4.9	4.3	3.8	3.5	2.4

E.&O.E.

## Concrete Insert Channel

- 6 m length
- CI series channel is manufactured from 2.5 mm Mild Steel with post production Hot Dip Galvanised Surface Treatment
- Pressed lugs at 200 mm continuous centres
- Removable foam insert
- Testing is based on a minimum 300 mm section cast in 25 Mpa (average) concrete. Maximum load before pull out failure is 9.3 kN based on a safety factor of 3
- Special cut to length sizes available on request



E.&O.E.

## Channel Loading Factors

Technical details by K-Strut series are based on a uniform load taking into account a safety factory of 1.5. Below conversion factors for beams are designed to help ascertain the correct series for the desired application.

As an example;


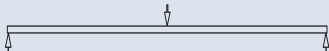


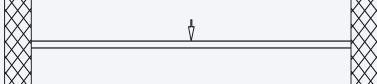
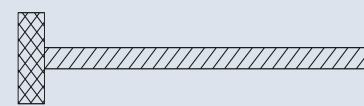


K-Strut Series K1000 Channel in a uniform load over a 600 mm span has a max allowable load of 7.5 kN resulting in a 1 mm deflection at full load.

**Scenario K1000G over 600 mm span with central concentrated load**

Uniform load **7.5 kN** x **0.50** central concentrated load factor = **3.75 kN**

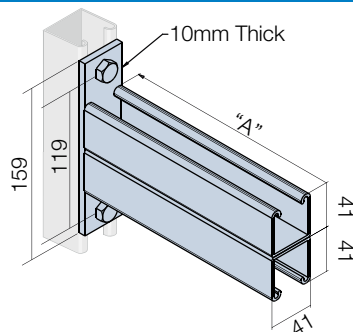
Uniform deflection at full load **1 mm** x **0.80** central concentrated deflection factor = **0.8 mm**

### Conversion Factors for Beams with Various Static Loading Conditions

LOAD AND SUPPORT CONDITION		LOAD FACTOR	DEFLECTION FACTOR
1. Simple Beam, Uniform Load		1.00	1.00
2. Simple Beam, Concentrated Load at Centre		0.50	0.80
3. Simple Beam, Two Equal Concentrated Loads at 1/4 pts		1.00	1.10
4. Beam Fixed at Both Ends, Uniform Load		1.50	0.30
5. Beam Fixed at Both Ends, Concentrated Load at Centre		1.00	0.40
6. Cantilever Beam, Uniform Load		0.25	2.40
7. Cantilever Beam, Concentrated Load at End		0.12	3.20
8. Continuous Beam, Two Equal Spans, Uniform Load on Both Ends		1.00	0.42

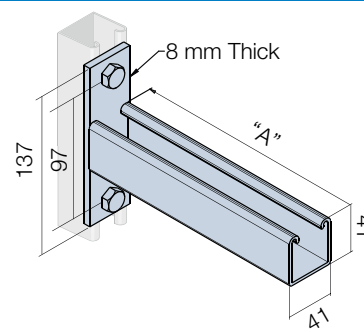
## Cantilever Brackets

### Flat Plate Double Strut Bracket



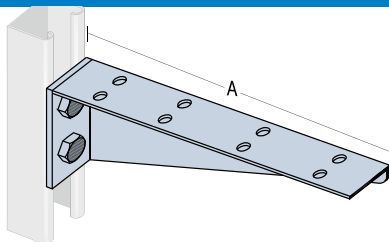
CODE	A	UNIFORM DESIGN LOAD kN
K2542	350	3.7
K2543	497	1.9
K2544	663	1.5
K2545	762	1.1
K2546	914	1.0

### Flat Plate Bracket



CODE	A	UNIFORM DESIGN LOAD kN
K2513F	204	3.7
K2514F	350	1.9
K2515F	497	1.5
K2516F	663	1.1
K2517F	780	1.0

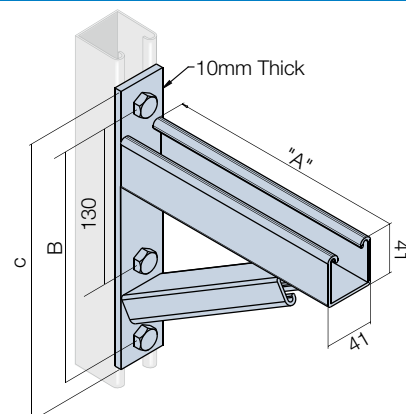
### Tray Arm Bracket



CODE	A	UNIFORM DESIGN LOAD kN
K2491	152	1.55
K2492	203	1.5
K2493	254	1.4
K2494	305	1.35
K2495	356	1.25
K2497	457	1.0
K2500	610	0.95

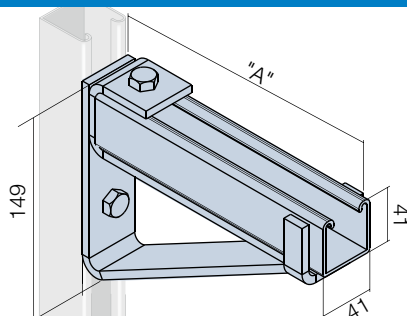
Also available in Galvabond when ordering add suffix G

### Braced Cantilever Bracket



CODE	A	B	C	UNIFORM DESIGN LOAD kN
K2514B	350	190	230	4.35
K2515B	497	190	230	3.05
K2516B	663	220	260	3.20
K2517B	780	220	260	2.75

### K1000 Channel Support Bracket



CODE	A	UNIFORM DESIGN LOAD kN
K1075	121	0.57
K1075A	197	0.57

Note: To be used to support K1000, K2000 and K4001.  
Loading applies to bracket only and not strut strength.

#### AVAILABLE FINISH

SUFFIX	DESCRIPTION
<b>H</b>	Hot Dip Galvanised
<b>S</b>	316 Stainless Steel

**When Ordering** add suffix to end of product code

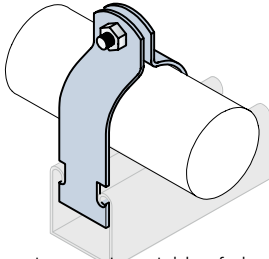
Mounting plates have 14 mm diameter holes.

Note: Kounis Braced brackets are longer than other suppliers, and also 900 size (1.5 kN) brackets are available to firm order.

E.&O.E.

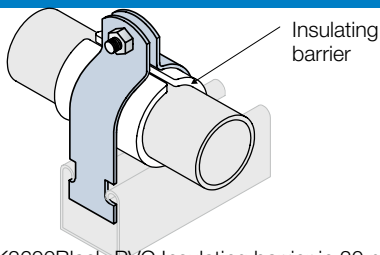
## Pipe, Cable & Conduit Clamps

### Pipe, Cable & Conduit Clamps



NOTE: Diameters are to outside of pipe, cable or insulation. Clamps are supplied with Pan Head screws and nuts.

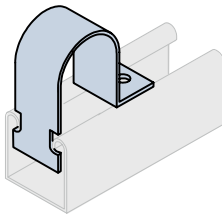
#### Insulation Barrier



K2600Black-PVC Insulating barrier in 20 m rolls  
K2600White-'Supacushion' barrier in 5 m Rolls

CODE	FIT DIA.	CODE	FIT DIA.	CODE	FIT DIA.
K5-8	8 mm	K5-51	51	K5-117	117 mm
K5-10	10 mm	K5-54	54	K5-121	121 mm
K5-12	12 mm	K5-57	57	K5-127	127 mm
K5-16	16 mm	K5-60	60	K5-133	133 mm
K5-18	18 mm	K5-64	64	K5-139	139 mm
K5-20	20 mm	K5-67	67	K5-146	146 mm
K5-21	21 mm	K5-70	70	K5-152	152 mm
K5-22	22 mm	K5-76	76	K5-159	159 mm
K5-25	25 mm	K5-79	79	K5-165	165 mm
K5-27	27 mm	K5-83	83	K5-178	178 mm
K5-29	29 mm	K5-86	86	K5-191	191 mm
K5-32	32 mm	K5-89	89	K5-203	203 mm
K5-34	34 mm	K5-92	92	K5-219	219 mm
K5-35	35 mm	K5-95	95	K5-230	230 mm
K5-38	38 mm	K5-98	98	K5-241	241 mm
K5-42	42 mm	K5-102	102	K5-254	254 mm
K5-43	43 mm	K5-105	105	K5-305	305 mm
K5-44	44 mm	K5-108	108	K5-315	315 mm
K5-48	48 mm	K5-111	111	K5-324	324 mm
K5-49	49 mm	K5-114	114		

### Single Bolt Strut Clamp



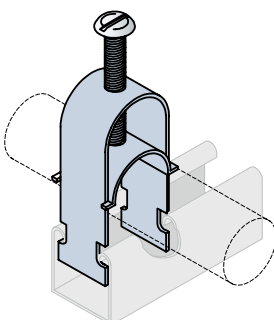
Setscrew and Strut nut ordered separately

CODE	FIT DIA.
K1600-34	34 mm
K1600-43	43 mm
K1600-48	48 mm
K1600-60	60 mm
K1600-76	76 mm
K1600-89	89 mm
K1600-102	102 mm
K1600-114	114 mm
K1600-152	152 mm
K1600-165	165 mm

AVAILABLE FINISH	
SUFFIX	DESCRIPTION
<b>H</b>	Hot Dip Galvanised
<b>Z</b>	Zinc Passivated
<b>S</b>	316 Stainless Steel

**When Ordering** add suffix to end of product code

### Adjustable Saddle Clamp



CODE	FIT DIA.
K5026-1	13 mm
K5028-1	19 mm
K5030-1	25 mm
K5032-1	32 mm
K5034-1	38 mm
K5036-1	44 mm
K5038-1	51 mm
K5040-1	57 mm
K5042-1	64 mm
K5044-1	70 mm
K5046-1	76 mm

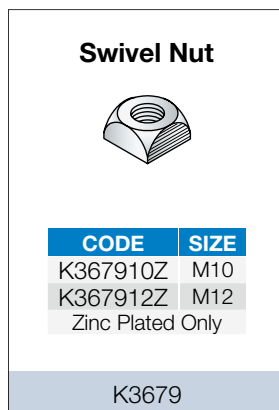
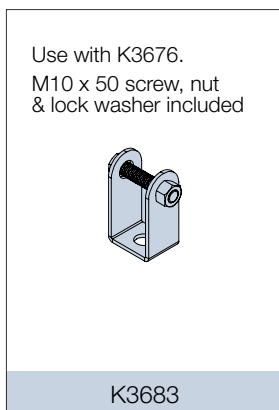
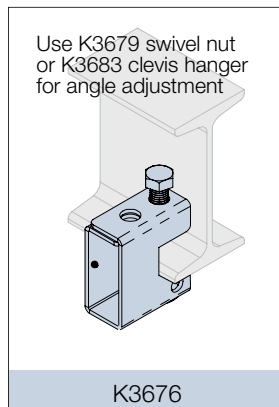
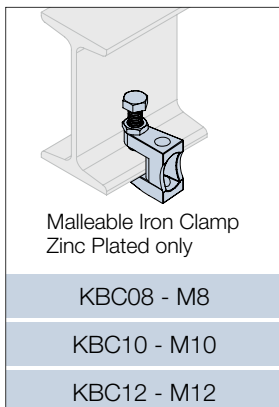
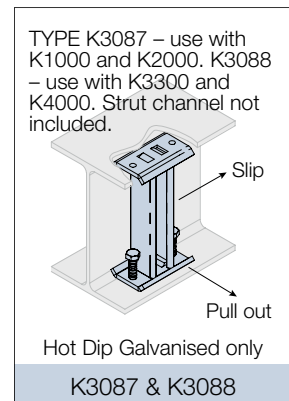
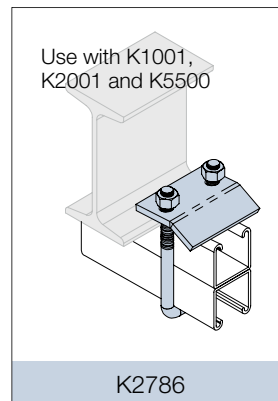
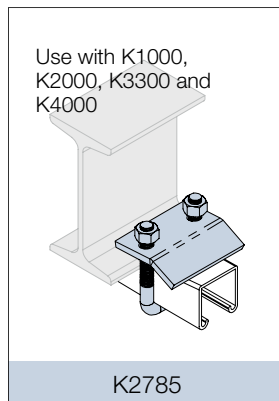
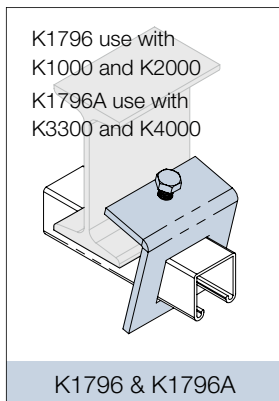
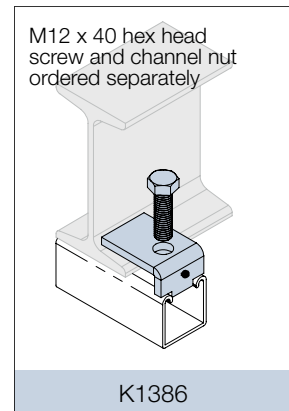
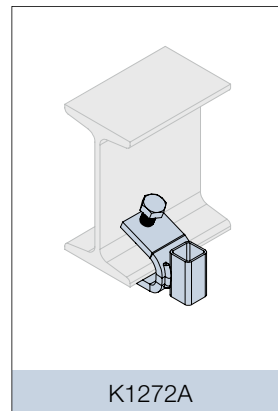
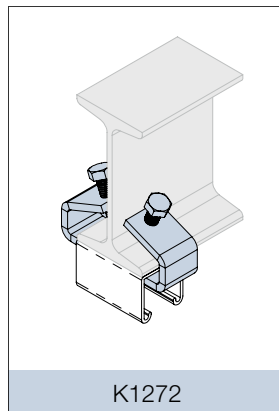
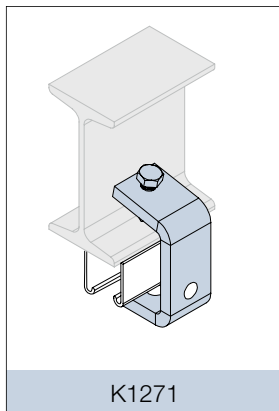
AVAILABLE FINISH	
SUFFIX	DESCRIPTION
<b>H</b>	Hot Dip Galvanised
<b>Z</b>	Zinc Passivated

**When Ordering** add suffix to end of product code

E.&O.E.

# K-Strut Fittings

## Column Support Applications



BEAM CLAMP SAFE LOADING		
CODE	SAFE LOAD kN	NOTES
K1271	4.4	Per pair
K1272	4.0	Per pair
K1272A	0.4	each
K1273	1.0	M10 only
K1386	5.4 K1000/3.9 K2000	Per pair
K1796	4.2	Per pair
K1796A	4.2	Per pair
K2785	8.8	Per pair
K2786	8.8	Per pair
K3676	2.9	M10
K3683	1.1	Use with K3676
KBC08	1.8	Mal / Iron
KBC10	2.2	Mal / Iron
KBC12	3.1	Mal / Iron

CODE	USED WITH	PULL OUT	SLIP
K3087	With K1000	450 kg	360 kg
K3087	With K2000	215 kg	135 kg
K3088	With K3300	450 kg	360 kg

End plates include Cone point screws only. Strut Channel is not included.

AVAILABLE FINISH	
SUFFIX	DESCRIPTION
H	Hot Dip Galvanised
S	316 Stainless Steel

**When Ordering** add suffix to end of product code

NOTES: Material thickness 6mm hole diameter 14 mm  
Channel nuts and bolts order separately

E.&O.E.

# K-Strut Fittings

## Hanger Support Applications

FINISH: Zinc Plated only

CODE	THREAD SIZE	WORKING LOAD (kg)
KPC08Z	M08	95
KPC10Z	M10	102
KPC12Z	M12	108

FINISH: Zinc Plated only

CODE	THREAD SIZE	WORKING LOAD (kg)
K1273Z	M10	40

### Central Female Hanger

FINISH: Zinc Plated only

CODE	THREAD SIZE	WORKING LOAD (kg)
K1200AZ10	M10	320
K1200AZ12	M12	480

### Verticle Mounting Plate

FINISH: Zinc Plated only

CODE	THREAD SIZE	WORKING LOAD (kg)
K1200BZ10	M10	405
K1200BZ12	M12	580

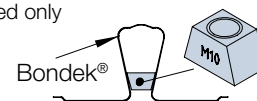
### Horizontal Mounting Plate

FINISH: Zinc Plated only

CODE	THREAD SIZE	WORKING LOAD (kg)
K1200CZ10	M10	530
K1200CZ12	M12	600

### Wedge Nuts for Bondek®

FINISH: Zinc Plated only



CODE	SIZE
KWN06	M6
KWN08	M8
KWN10	M10
KWN12	M12

Mounting Plate Material: 100 x 25 x 2.5 mm thick  
Finish : Zinc plate finish

### Central Male Mounting Plate

FINISH: Zinc Plated only

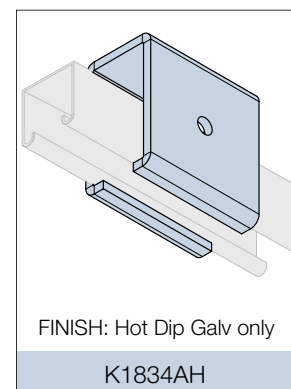
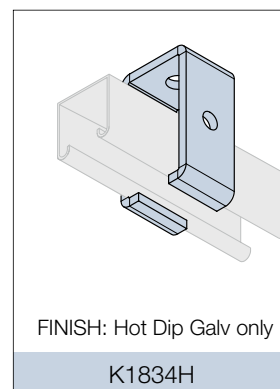
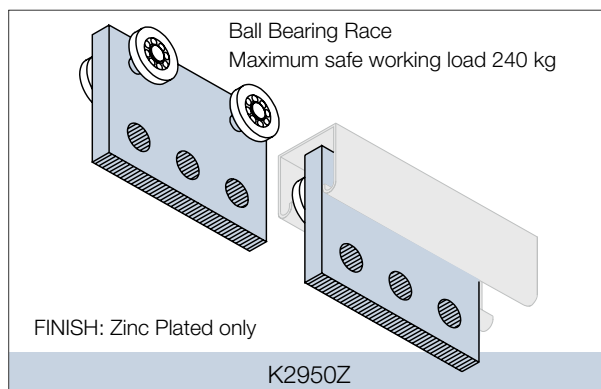
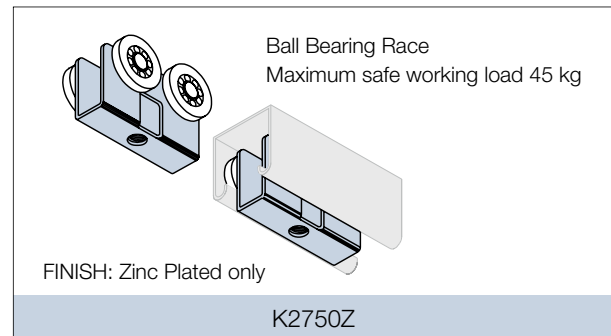
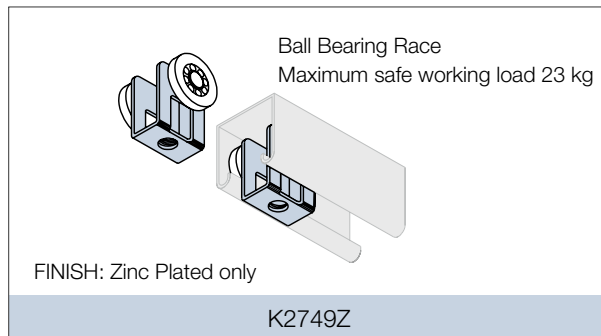
CODE	THREAD SIZE	WORKING LOAD (kg)
K1200DZ10	M10	320
K1200DZ12	M12	480

E.&O.E.

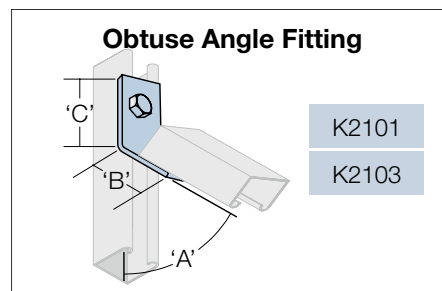
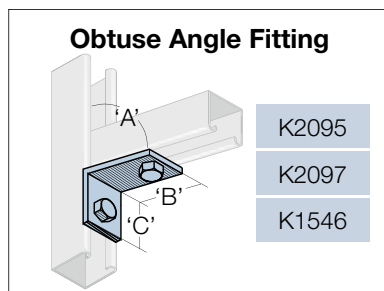


# K-Strut Fittings

## Channel Carriages



## Angle Fittings



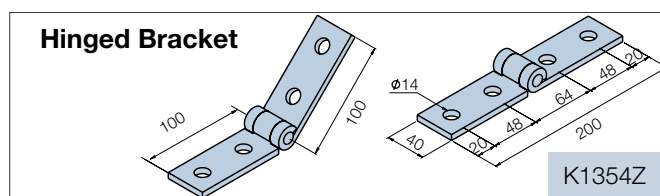
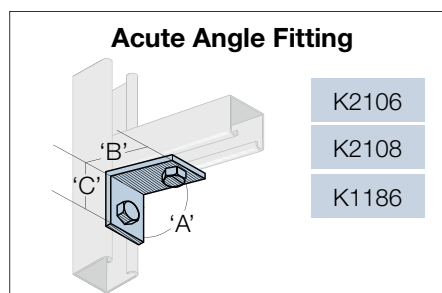
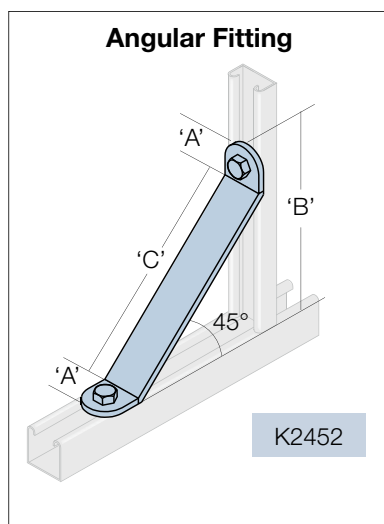
AVAILABLE FINISH	
SUFFIX	DESCRIPTION
<b>H</b>	Hot Dip Galvanised
<b>S</b>	316 Stainless Steel

**When Ordering** add suffix to end of product code

OBTUSE ANGLE FITTING			
CODE	A °	B	C
K2095	75	91	43
K2097	60	86	48
K1546	45	76	60
K2101	30	83	52
K2103	15	84	52

ACUTE ANGLE FITTING			
CODE	A °	B	C
K2106	75	80	63
K2108	60	80	63
K1186	45	80	63

ANGLE FITTING			
CODE	A	B	C
K2452	41	346	422

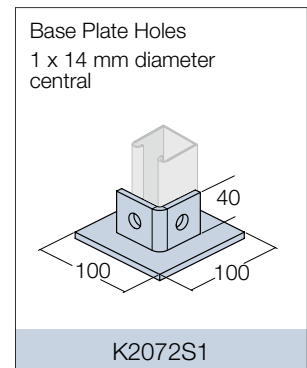
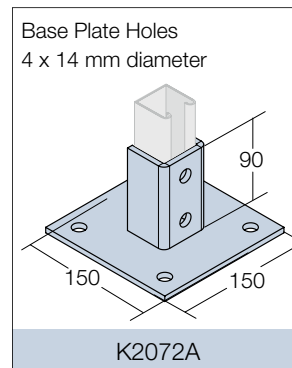
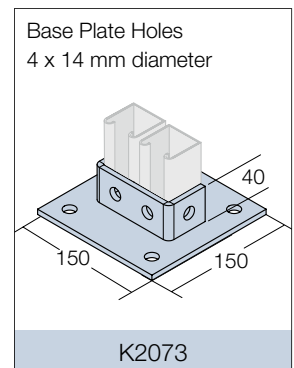
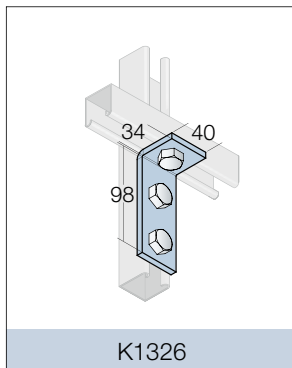
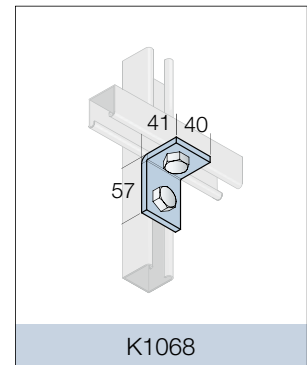
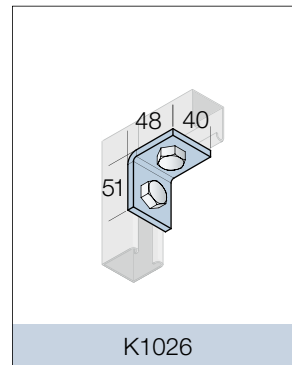
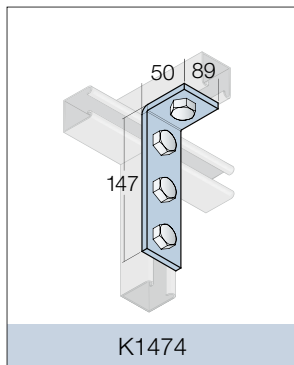
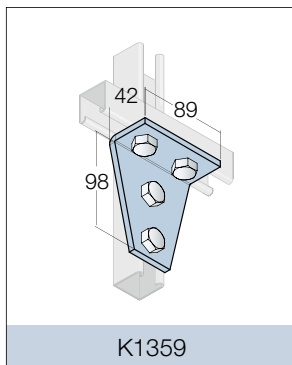
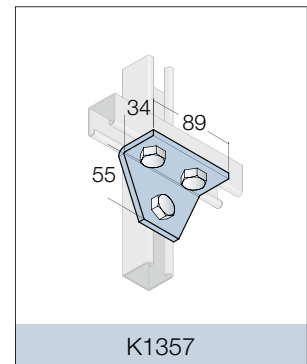
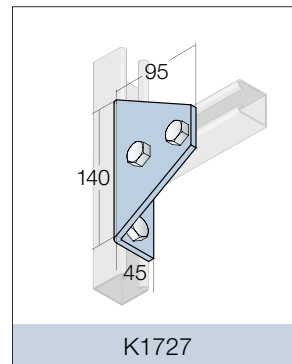
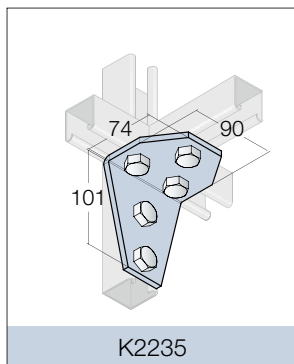
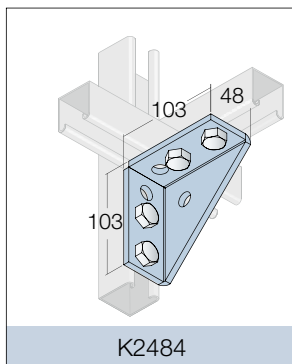
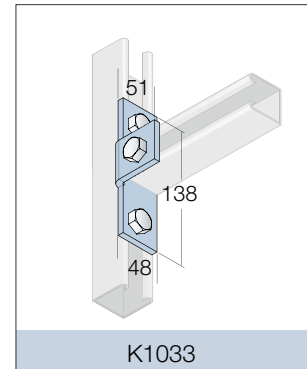
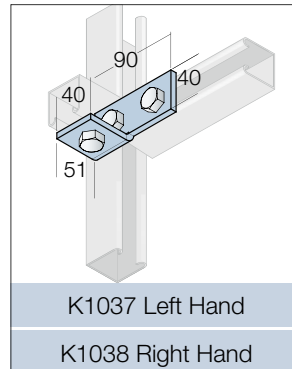
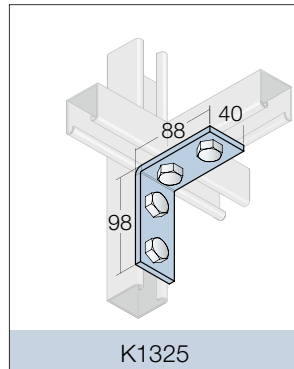
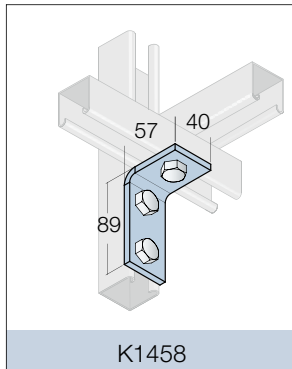


NOTE: Material thickness 6 mm.  
Hole diameter 14 mm.  
Channel nuts and bolts order separately.

E.&O.E.

# K-Strut Fittings

## 90° Fittings



AVAILABLE FINISH	
SUFFIX	DESCRIPTION
H	Hot Dip Galvanised
S	316 Stainless Steel

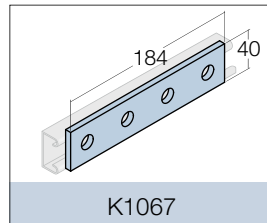
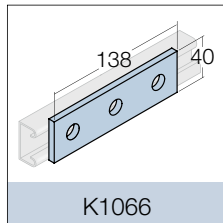
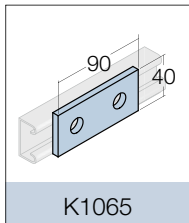
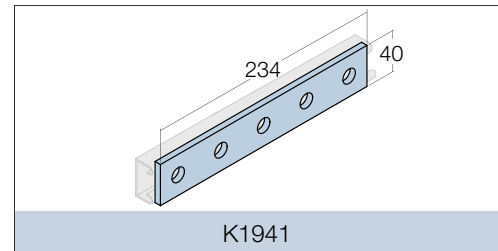
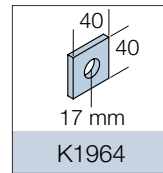
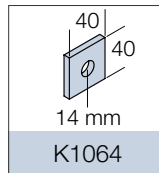
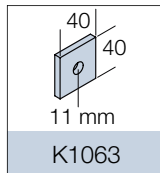
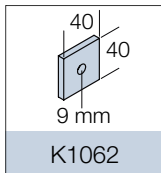
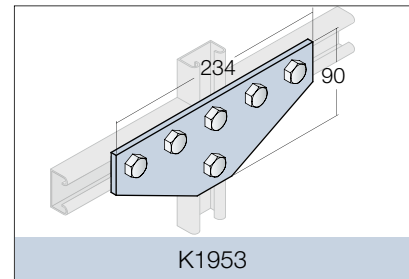
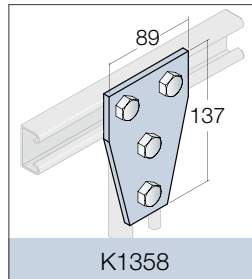
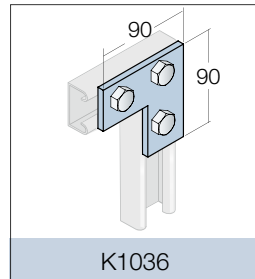
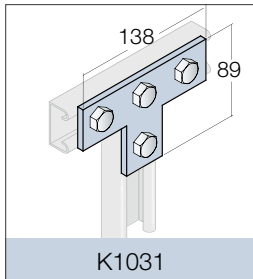
**When Ordering** add suffix to end of product code

NOTES: Material thickness 6 mm hole diameter 14 mm  
Channel nuts and bolts ordered separately

E.&O.E.

# K-Strut Fittings

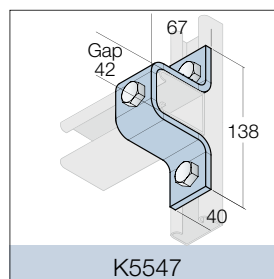
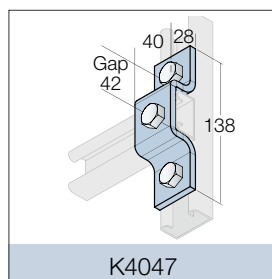
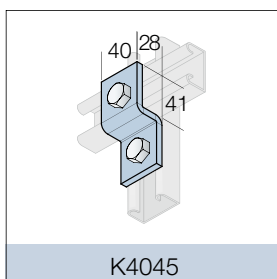
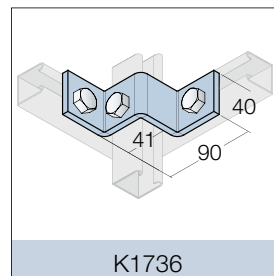
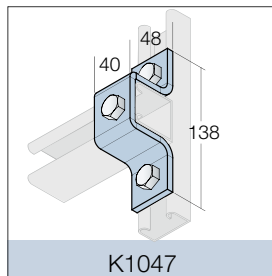
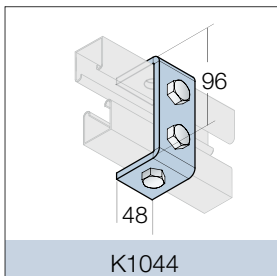
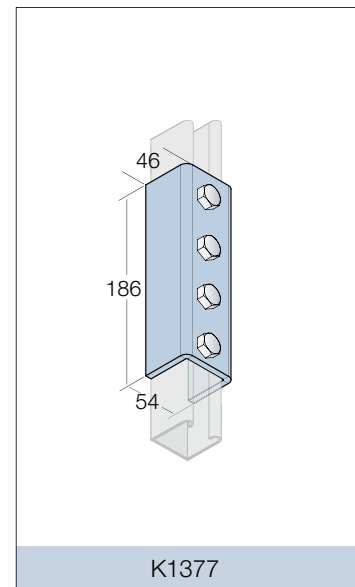
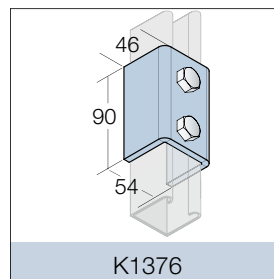
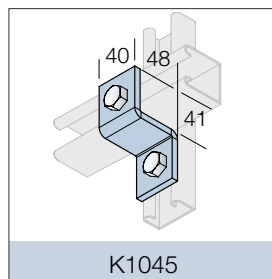
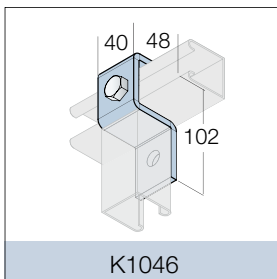
## Flat Fittings



AVAILABLE FINISH	
SUFFIX	DESCRIPTION
<b>H</b>	Hot Dip Galvanised
<b>S</b>	316 Stainless Steel

**When Ordering** add suffix to end of product code

## “U” & “Z” Fittings



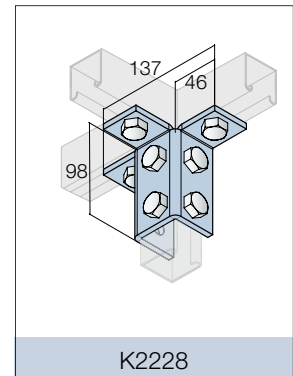
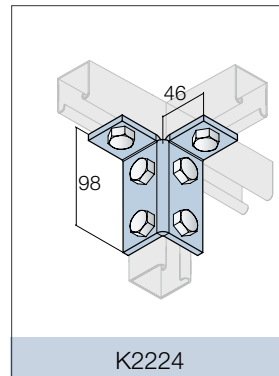
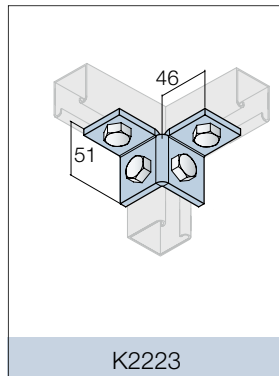
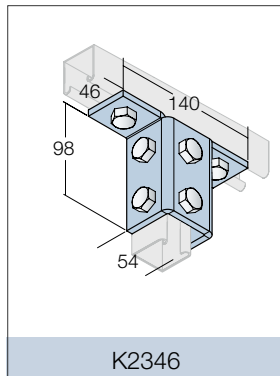
AVAILABLE FINISH	
SUFFIX	DESCRIPTION
<b>H</b>	Hot Dip Galvanised
<b>S</b>	316 Stainless Steel

**When Ordering** add suffix to end of product code

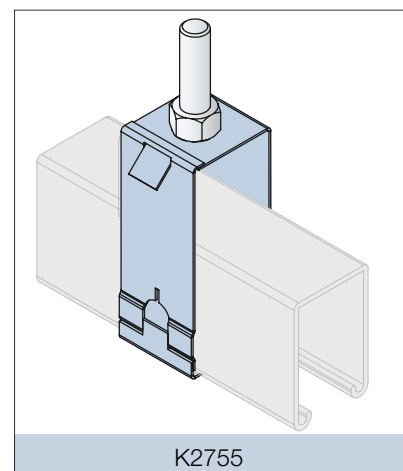
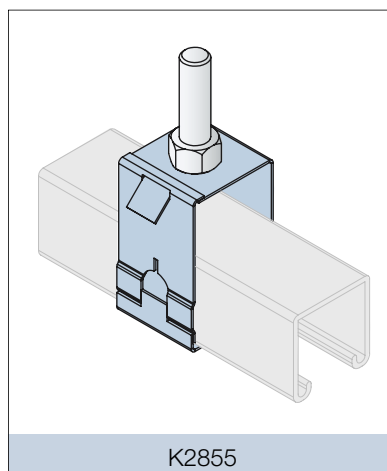
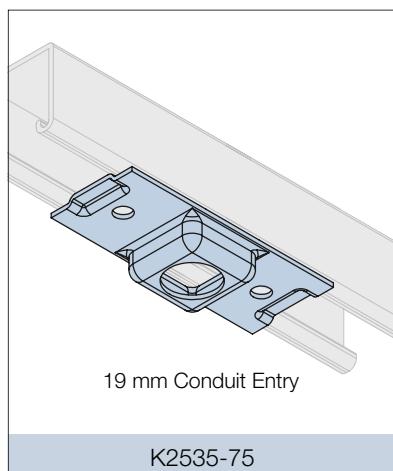
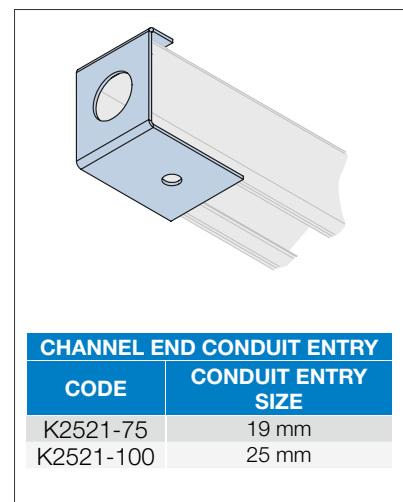
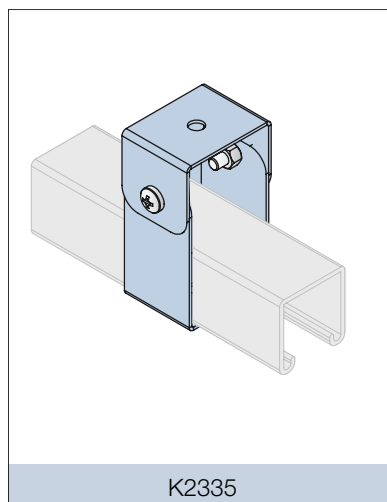
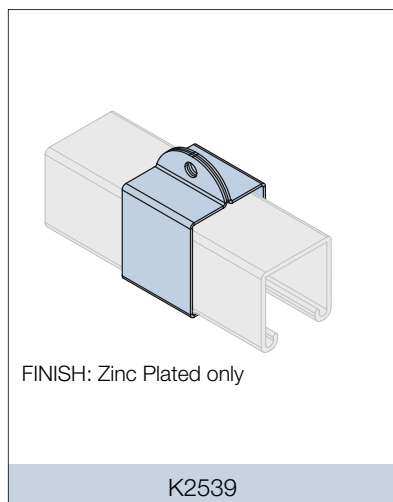
E.&O.E.

# K-Strut Fittings

## Winged Shape Fittings



## Lighting Supports



AVAILABLE FINISH	
SUFFIX	DESCRIPTION
H	Hot Dip Galvanised
Z	Zinc Plated

**When Ordering** add suffix to end of product code

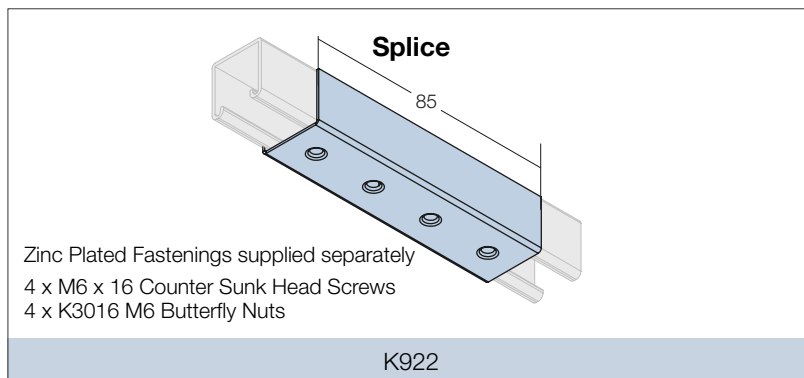
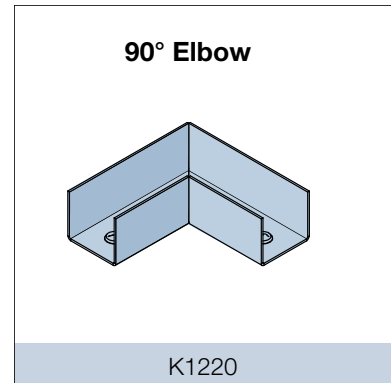
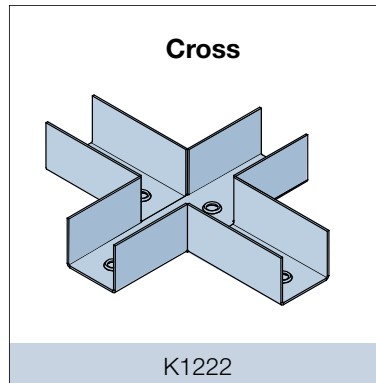
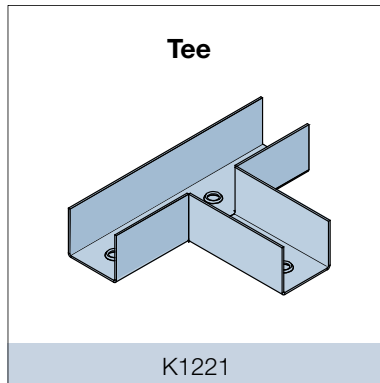
E.&O.E.

K-STRUT SUPPORT  
SYSTEM

Winged Shape Fittings,  
Lighting Supports

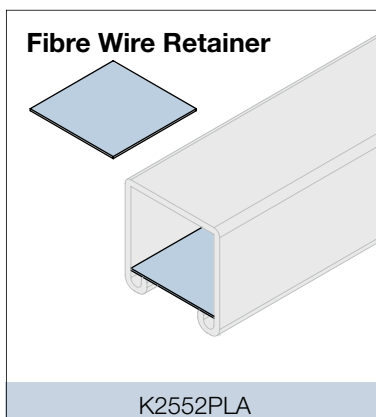
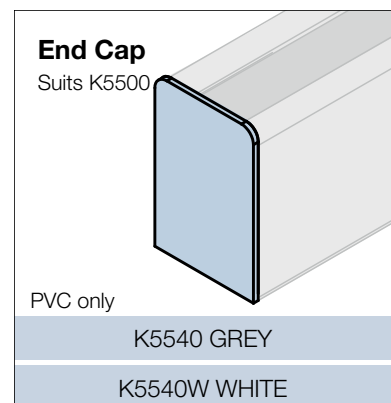
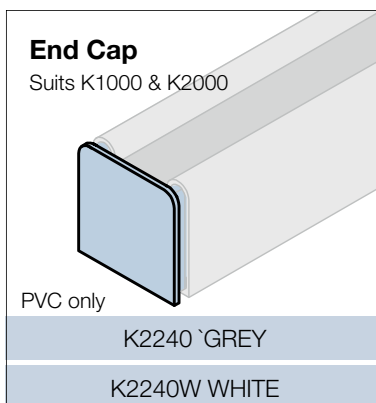
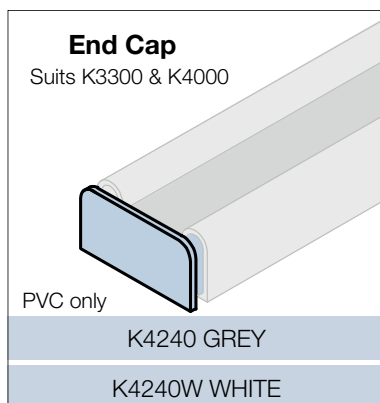
# K-Strut Fittings

## Joiner Boxes/PVC Accessories



AVAILABLE FINISH	
SUFFIX	DESCRIPTION
<b>H</b>	Hot Dip Galvanised
<b>Z</b>	Zinc Plated

**When Ordering** add suffix to end of product code

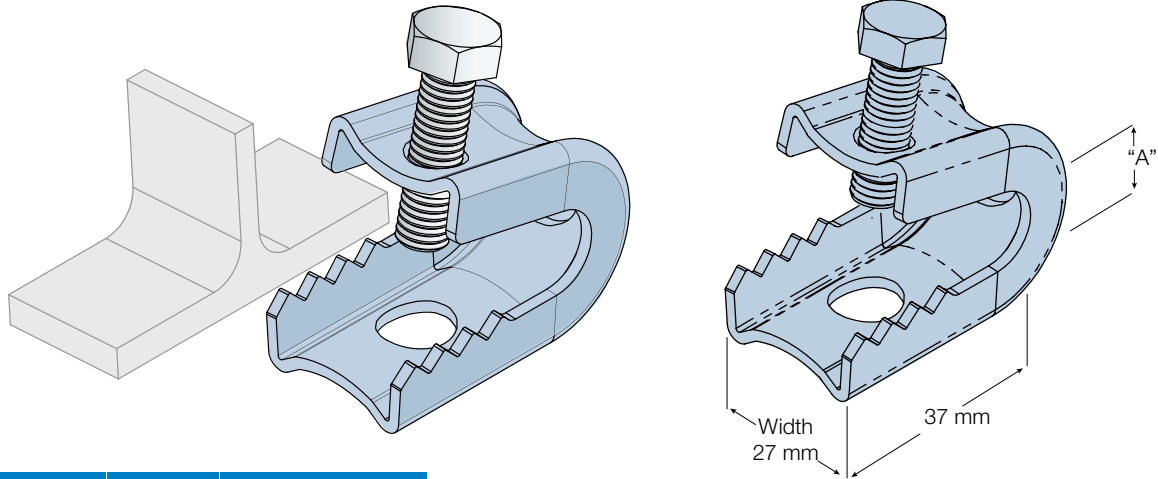


AVAILABLE FINISH	
SUFFIX	DESCRIPTION
<b>PL</b>	PVC Grey
<b>W</b>	PVC White
<b>AL</b>	Aluminium

E.&O.E.

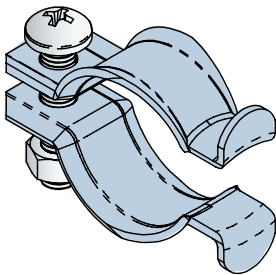
## K-Strut Fittings

### Adaptable Beam Clamps

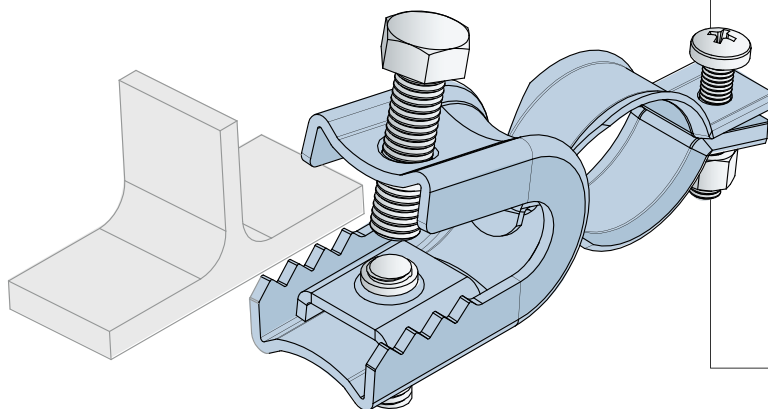


CODE	GRIP "A"	SCREW SIZE
KCC17	17 mm	M8 x 30 Cone Point
KCC36	36 mm	M8 x 50 Cone Point
KCC45	45 mm	M8 x 50 Cone Point

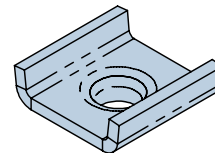
### Cable – Pipe Clamps



CODE	GRIP DIA.	WIDTH	SCREW SIZE
KAC19	16-20 mm	16 mm	M5 x 20 R/H screw & nut
KAC25	21-25 mm	16 mm	M5 x 20 R/H screw & nut
KAC31	27-32 mm	16 mm	M5 x 20 R/H screw & nut
KAC42	40-44 mm	20 mm	M5 x 20 R/H screw & nut
KAC48	47-51 mm	20 mm	M5 x 20 R/H screw & nut



#### Drop Rod Locators



CODE	DROP ROD SIZE
KRC06	M6
KRC08	M8
KRC10	M10

#### General Arrangement of Assembly with Cable Clamp and Drop Rod

AVAILABLE FINISH	
SUFFIX	DESCRIPTION
H	Hot Dip Galvanised
Z	Zinc Passivated
S	316 Stainless Steel

When Ordering add suffix to end of product code

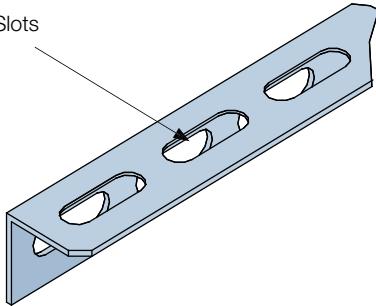
E.&O.E.

# K-Strut Fittings

## Supports/Hangers

### Slotted Angle

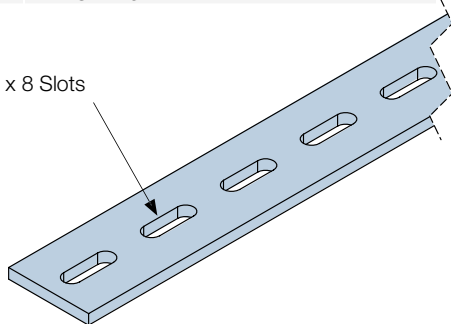
26 x 8.5 Slots



CODE	DESCRIPTION
KSA25	25 x 25 x 3 mm Slotted Angle MATERIAL: Hot Dip Galvanised LENGTH: 3 m
KSA40	40 x 40 x 5 mm Slotted Angle MATERIAL: Hot Dip Galvanised LENGTH: 3.75 m
KSA50	50 x 50 x 3 mm Slotted Angle MATERIAL: Hot Dip Galvanised LENGTH: 3 m

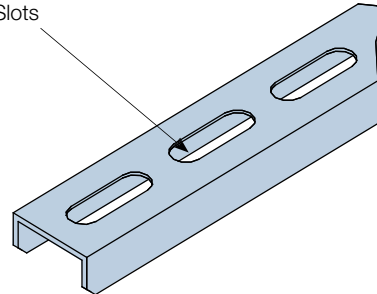
CODE	DESCRIPTION
KSF40	40 x 40 x 5 mm Slotted Flat MATERIAL: Hot Dip Galvanised LENGTH: 3 m

25 x 8 Slots



### Slotted Channel

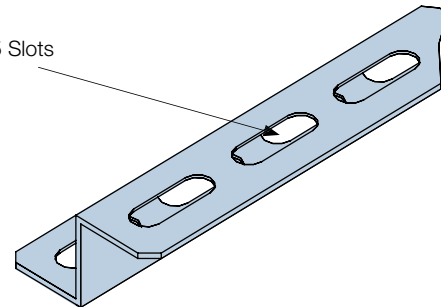
26 x 8.5 Slots



CODE	DESCRIPTION
KSC25	25 x 25 x 1.6 mm Slotted Channel MATERIAL: Plain Galvanised Iron Other finishes available on request LENGTH: 2.4 m

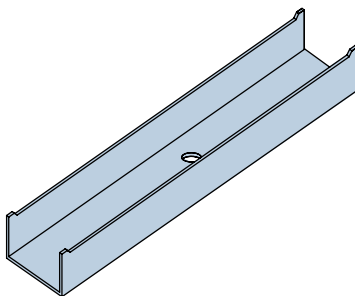
### Slotted Z Bar

26 x 8.5 Slots



CODE	DESCRIPTION
KSZ25	25 x 25 x 1.6mm Slotted Z Bar MATERIAL: Plain Galvanised Iron Other finishes available on request LENGTH: 2.4m

## Light Duty Tray Hangers



CODE	DESCRIPTION
KTH75	Suits 75 mm wide tray
KTH100	Suits 100 mm wide tray
KTH150	Suits 150 mm wide tray
KTH230	Suits 230 mm wide tray
KTH300	Suits 300 mm wide tray
KTH450	Suits 450 mm wide tray
KTH600	Suits 600 mm wide tray

AVAILABLE FINISH	
SUFFIX	DESCRIPTION
H	Hot Dip Galvanised
S	316 Stainless Steel

**When Ordering** add suffix to end of product code

E.&O.E.

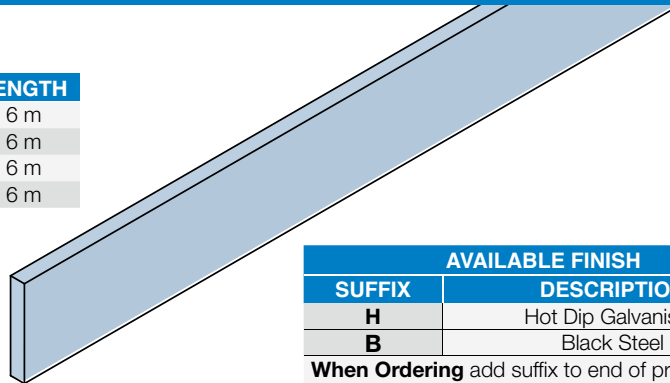


## Structural Steel Hot Dip Galvanised

### MS Flat Bar

CODE	SIZE	LENGTH
KF506	50 x 6 mm	6 m
KF756	75 x 6 mm	6 m
KF1006	100 x 6 mm	6 m
KF1506	150 x 6 mm	6 m

Other sizes available on request



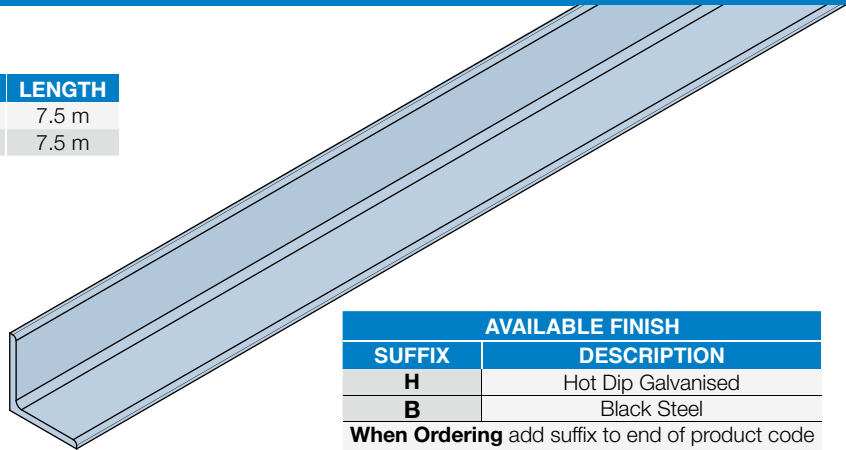
AVAILABLE FINISH	
SUFFIX	DESCRIPTION
<b>H</b>	Hot Dip Galvanised
<b>B</b>	Black Steel

**When Ordering** add suffix to end of product code

### MS Equal Angle

CODE	SIZE	LENGTH
KA506	50 x 50 x 6 mm	7.5 m
KA756	75 x 75 x 6 mm	7.5 m

Other sizes available on request



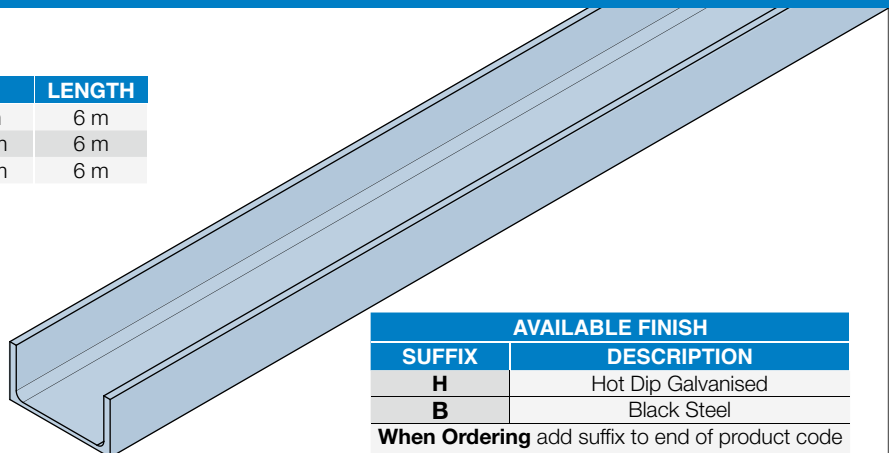
AVAILABLE FINISH	
SUFFIX	DESCRIPTION
<b>H</b>	Hot Dip Galvanised
<b>B</b>	Black Steel

**When Ordering** add suffix to end of product code

### MS Channel

CODE	SIZE	LENGTH
KC74	75 x 40 mm	6 m
KC105	100 x 50 mm	6 m
KC157	150 x 75 mm	6 m

Other sizes available on request



AVAILABLE FINISH	
SUFFIX	DESCRIPTION
<b>H</b>	Hot Dip Galvanised
<b>B</b>	Black Steel

**When Ordering** add suffix to end of product code

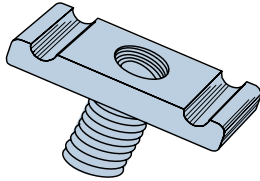
STRUCTURAL STEEL: AS/NZS 3679  
HOT DIP GALVANISED: AS/NZS 4680

E.&O.E.

## K-Strut Fittings

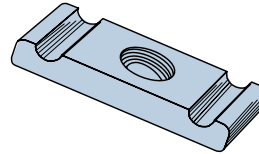
### Channel Nuts

**Channel Nut- Long Spring for K1000/K2000 Channel**

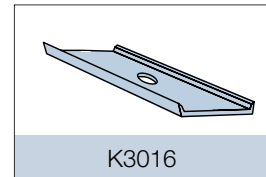


CODE	SIZE
K1006	M6
K1007	M8
K1008	M10
K1010	M12
K1012	M16

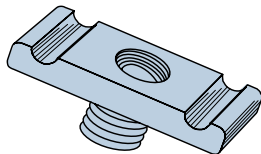
**Channel Nut- Without Spring for all Channel Types**



CODE	SIZE
K3016	M6
K3006	M6
K3007	M8
K3008	M10
K3010	M12
K3012	M16

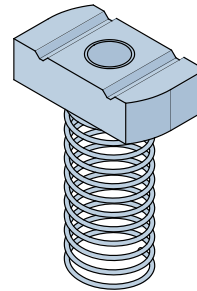


**Channel Nut- Short Spring for K3300/K4000 Channel**



CODE	SIZE
K4006	M6
K4007	M8
K4008	M10
K4010	M12

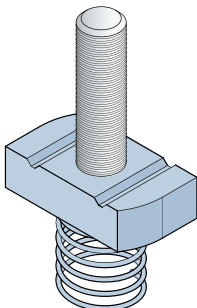
**Channel Nut- Long Spring for K5500 Channel**



CODE	SIZE
K5508	M10
K5510	M12

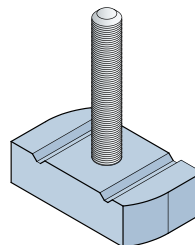
### Stud Nuts

**Stud Nut – Long Spring for K1000 Channel**



CODE	SIZE
K2378	M6
K2379	M8
K2380	M10
K2381	M12

**Stud Nut without Spring**



CODE	SIZE
K3116	M6

#### AVAILABLE FINISH

SUFFIX	DESCRIPTION
H	Hot Dip Galvanised
Z	Zinc Passivated
S	316 Stainless Steel

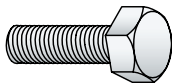
**When Ordering** add suffix to end of product code

E.&O.E.

# K-Strut Fittings

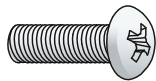
## Fasteners

### Hex Head Set Screws



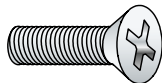
CODE	SIZE
HHS0620	M6 x 20
HHS0625	M6 x 25
HHS0820	M8 x 20
HHS0825	M8 x 25
HHS0830	M8 x 30
HHS1020	M10 x 20
HHS1025	M10 x 25
HHS1030	M10 x 30
HHS1040	M10 x 40
HHS1225	M12 x 25
HHS1230	M12 x 30
HHS1240	M12 x 40
HHS1260	M12 x 60
HHS1640	M16 x 40

### Pan Head Screws



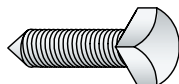
CODE	SIZE
PHS0620	M6 x 20
PHS0625	M6 x 25
PHS0825	M8 x 25

### Countersunk Head Screws



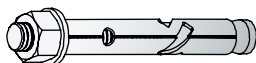
CODE	SIZE
CKS0616	M6 x 16
CKS0620	M6 x 20
CKS0820	M8 x 20

### Cone Point Set Screws



CODE	SIZE
CPS1040	M10 x 40
CPS1240	M12 x 40
CPS1250	M12 x 50

### Concrete Anchor Hex Head



CODE	SIZE
DB0840	M8 x 40
DB1040	M10 x 40
DB1050	M10 x 50
DB1075	M10 x 75
DB1260	M12 x 60
DB12100	M12 x 100

### Nylon Anchor



ZINC	SIZE
KNMH6538	6.5 x 38



### Threaded Rod

CODE	SIZE
KR06	M6
KR08	M8
KR10	M10
KR12	M12
KC16	M16



### Threaded Rod Coupler

CODE	SIZE
KC06	M6
KC08	M8
KC10	M10
KC12	M12
KC16	M16



### Hexagonal Nuts

CODE	SIZE
HN06	M6
HN08	M8
HN10	M10
HN12	M12
HN16	M16



### Flat Washers

CODE	SIZE
FW06	M6
FW08	M8
FW10	M10
FW12	M12
FW16	M16



### Spring Washers

CODE	SIZE
SW06	M6
SW08	M8
SW10	M10
SW12	M12
SW16	M16



### Anchor/Drop in Type

CODE	SIZE
DIM06	M6 x 25
DIM08	M8x30
DIM10	M10 x 40
DIM12	M12 x 50
DIM16	M16 x 65

### AVAILABLE FINISH

SUFFIX	DESCRIPTION
H	Hot Dip Galvanised
Z	Zinc Passivated
S	316 Stainless Steel

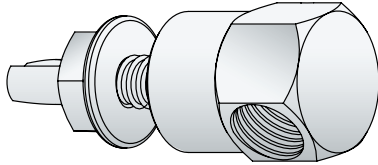
When Ordering add suffix to end of product code

E.&O.E.

## K-Strut Fittings

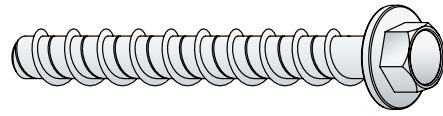
### Fasteners

#### Steel Sidehanger



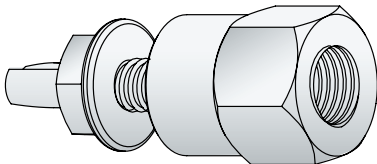
CODE	DESCRIPTION
SHM06	SD3 – 1/4" -20 x 25
SHM08	SD3 – 1/4" -20 x 25 with nuts
SHM10	SD3 – 1/4" -20 x 25 with nuts
SHM12	SD3 – 1/4" -20 x 25 with nuts

#### Zinc Plated Concrete Screw



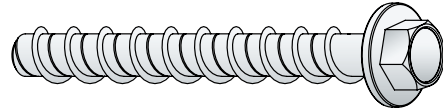
CODE	DESCRIPTION
BT550	5 x 50 mm
BT850	8 x 50 mm
BT875	8 x 75 mm
BT1060	10 x 60 mm
BT1075	10 x 75 mm
BT1275	12 x 75 mm
BT6550	6.5 x 50 mm

#### Steel Vertical Hanger



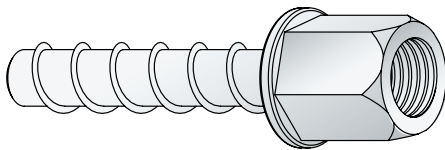
CODE	DESCRIPTION
VHM06	SD3 – 1/4" -20 x 25
VHM08	SD3 – 1/4" -20 x 25 with nuts
VHM10	SD3 – 1/4" -20 x 25 with nuts

#### Mechanically Galvanised Concrete Screw



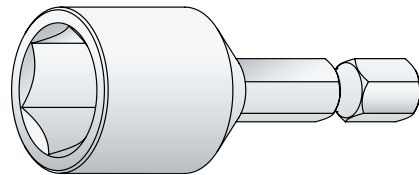
CODE	DESCRIPTION
BT550	5 x 50 mm
BT850	8 x 50 mm
BT875	8 x 75 mm
BT1060	10 x 60 mm
BT1075	10 x 75 mm
BT1275	12 x 75 mm
BT6550	6.5 x 50 mm

#### Concrete Vertical Hanger



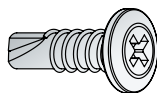
CODE	DESCRIPTION
VH6532-M08	6.5 mm x 32 mm
VH6538-M10	6.5 mm x 38 mm

#### Socket Driver



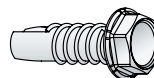
CODE	DESCRIPTION
SD-M8	Socket Driver for M6
SD-M10	Socket Driver for M8

#### 10-16 x 16 Posidrive Tek Screw



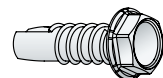
WHKH

#### 10-16 x 16 Hexhead Tek Screw



CSKH10

#### 12-14 x 20 Hexhead Tek Screw



CSKH12

E.&O.E.

## Weight Tables

CABLE LADDER WEIGHT TABLES										
LADDER		2/30	3/50	4/70L	4/70	5/112	3/50	4/70L	4/70	5/112
Ladder 6M	150	20.28	25.71	31.81	39.16	44.92	25.71	31.81	39.16	44.92
	300	23.16	28.59	34.69	42.04	47.80	28.59	34.69	42.04	47.80
	450	25.77	31.21	37.30	44.66	52.82	31.21	37.30	44.66	52.82
	600	28.46	33.90	39.99	47.35	56.38	33.90	39.99	47.35	56.38
	750	30.94	36.38	42.47	49.83	59.94	36.38	42.47	49.83	59.94
900	33.73	39.16	45.26	52.62	61.27	39.16	45.26	52.62	61.27	
Splice Plate	Universal	0.18	0.47	1.32	1.63	1.86	0.47	1.32	1.63	1.86
BENDS		300R	300R	300R	300R	300R	450R	450R	450R	450R
Bends 90°	150	1.68	2.63	4.17	5.11	5.69	3.26	4.98	6.12	6.84
	300	2.37	3.42	5.06	6.10	6.74	4.35	6.16	7.41	8.18
	450	3.44	4.61	6.33	7.48	8.75	5.24	7.16	8.51	9.99
	600	4.24	5.52	7.34	8.59	10.11	6.73	8.74	10.19	12.15
	750	5.00	6.39	8.31	9.66	11.46	7.75	9.84	11.40	13.71
900	5.82	7.33	9.32	10.78	12.32	8.83	11.03	12.69	14.51	
RISERS 90°		300R	300R	300R	300R	300R	450R	450R	450R	450R
Risers 90°	150	1.44	2.40	3.98	4.91	5.54	3.15	4.92	6.06	6.82
	300	1.76	2.72	4.30	5.23	5.86	3.63	5.40	6.54	7.30
	450	2.05	3.01	4.59	5.52	6.41	4.07	5.84	6.97	8.22
	600	2.35	3.30	4.89	5.82	6.81	4.52	6.29	7.42	8.82
	750	2.62	3.58	5.16	6.09	7.20	4.93	6.70	7.83	9.42
900	2.93	3.89	5.47	6.40	7.36	5.40	7.17	8.30	9.55	
TEES		300R	300R	300R	300R	300R	450R	450R	450R	450R
Equal Tees	150	3.88	5.39	7.14	8.42	9.29	7.29	9.30	11.09	12.22
	300	4.88	6.51	8.34	9.72	10.65	8.69	10.78	12.66	13.87
	450	6.29	8.01	9.91	11.37	13.05	9.89	12.17	14.17	16.29
	600	7.44	9.23	11.22	12.77	14.75	11.69	13.95	16.01	18.62
	750	8.51	10.40	12.45	14.10	16.47	12.98	15.32	17.47	20.54
900	10.55	12.54	14.67	16.40	18.59	15.26	17.68	19.92	22.56	
CROSS		300R	300R	300R	300R	300R	450R	450R	450R	450R
Equal Cross	150	5.82	7.51	10.39	12.07	13.10	10.40	13.41	15.75	17.03
	300	7.00	8.69	11.56	13.24	14.28	11.73	14.74	17.08	18.37
	450	8.54	10.23	13.10	14.78	16.62	12.98	15.99	18.33	20.58
	600	9.81	11.50	14.37	16.06	18.18	14.84	17.85	20.19	22.95
	750	11.01	12.70	15.58	17.26	19.74	16.18	19.19	21.53	24.73
900	13.19	14.88	17.76	19.44	21.60	18.52	21.53	23.87	26.44	
BENDS 45°		300R	300R	300R	300R	300R	450R	450R	450R	450R
Bends 45°	150	1.04	1.72	3.06	3.76	4.13	2.02	3.42	4.21	4.69
	300	1.46	2.20	3.54	4.28	4.73	2.50	3.95	4.80	5.31
	450	1.85	2.63	4.03	4.82	5.57	2.95	4.44	5.34	6.21
	600	2.25	3.09	4.54	5.38	6.26	4.00	5.53	6.47	7.69
	750	2.63	3.53	5.02	5.91	6.94	4.57	6.14	7.13	8.57
900	3.04	4.00	5.53	6.47	7.37	5.18	6.82	7.86	8.98	
RISERS 45°		300R	300R	300R	300R	300R	450R	450R	450R	450R
Risers 45°	150	0.98	1.66	2.99	3.68	4.11	1.98	3.39	4.18	4.69
	300	1.30	1.98	3.31	4.00	4.43	2.30	3.71	4.50	5.01
	450	1.59	2.27	3.60	4.29	4.99	2.59	4.00	4.79	5.62
	600	1.89	2.57	3.90	4.59	5.39	2.89	4.30	5.09	6.02
	750	2.17	2.85	4.18	4.86	5.79	3.17	4.58	5.36	6.42
900	2.48	3.16	4.49	5.17	5.93	3.48	4.89	5.67	6.51	
REDUCERS		300R	300R	300R	300R	300R	450R	450R	450R	450R
Straight Reducers	300	1.32	2.14	3.42	4.17	4.62	2.14	3.42	4.17	4.62
	450	1.62	2.45	3.73	4.47	4.92	2.45	3.73	4.47	4.92
	600	1.96	2.89	3.88	4.62	5.85	2.89	3.88	4.62	5.85
	750	2.31	3.03	4.31	5.06	5.93	3.03	4.31	5.06	5.93
	900	2.66	3.48	4.76	5.51	6.55	3.48	4.76	5.51	6.55
NOTE: Type 4/70L fittings from 1.6 m steel – Type 4/70 from 2.0 m steel										

NOTE: Type 4/70L fittings from 1.6 m steel – Type 4/70 from 2.0 m steel

E.&O.E.

## Weight Tables

CABLE LADDER WEIGHT TABLES								
LADDER		3/50	4/70L	4/70	5/112	3/50 Fire Rated	4/70L Fire Rated	5/112 Fire Rated
Ladder 6 m	150	25.71	31.81	39.16	44.92	26.20	32.24	46.67
	300	28.59	34.69	42.04	47.80	29.29	35.33	51.21
	450	31.21	37.30	44.66	52.82	32.38	38.42	55.74
	600	33.90	39.99	47.35	56.38	35.47	41.51	60.28
	750	36.38	42.47	49.83	59.94	N/A	N/A	N/A
	900	39.16	45.26	52.62	61.27	41.65	47.69	69.35
Splice Plate	Universal	0.47	1.32	1.63	1.86	0.47	1.32	1.86
BENDS		600R	600R	600R	600R	600R	600R	600R
Bends 90°	150	4.02	5.94	7.29	8.12	5.84	8.35	12.22
	300	4.98	6.97	8.43	9.32	7.13	9.77	14.31
	450	6.30	8.41	9.96	11.61	8.44	11.20	16.39
	600	7.37	9.57	11.22	13.17	9.69	12.63	18.49
	750	8.36	10.67	12.43	14.74	N/A	N/A	N/A
	900	10.34	12.73	14.60	16.71	12.34	15.49	22.69
RISERS 90°		600R	600R	600R	600R	600R	600R	600R
Risers 90°	150	3.78	5.75	7.09	7.95	5.61	7.36	11.02
	300	4.26	6.23	7.57	8.43	6.46	8.05	12.28
	450	4.69	6.67	8.00	9.26	7.32	8.73	13.54
	600	5.14	7.11	8.45	9.86	8.18	9.42	14.80
	750	5.56	7.53	8.87	10.45	N/A	N/A	N/A
	900	6.02	7.99	9.33	10.68	9.90	10.79	17.32
TEES		600R	600R	600R	600R	600R	600R	600R
Equal Tees	150	9.81	12.50	14.57	15.90	11.97	16.30	21.77
	300	11.55	14.32	16.48	17.87	13.98	18.73	24.75
	450	13.04	15.89	18.15	20.54	15.81	21.00	27.48
	600	15.16	18.09	20.43	23.43	18.52	24.13	31.22
	750	16.74	19.75	22.19	25.73	N/A	N/A	N/A
	900	19.34	22.43	24.96	28.07	25.44	29.85	41.72
CROSS		600R	600R	600R	600R	600R	600R	600R
Equal Cross	150	14.29	17.92	20.42	21.95	17.68	22.71	30.08
	300	16.24	19.87	22.37	23.90	20.46	25.49	33.98
	450	17.92	21.56	24.05	26.78	23.06	28.09	37.63
	600	20.23	23.86	26.36	29.72	26.35	31.38	42.29
	750	22.11	25.74	28.24	32.20	N/A	N/A	N/A
	900	24.78	28.42	30.91	34.22	32.93	37.96	51.60
BENDS 45°		600R	600R	600R	600R	600R	600R	600R
Bends 45°	150	2.34	3.83	4.73	5.26	ON APPLICATION	ON APPLICATION	ON APPLICATION
	300	2.82	4.35	5.29	5.88			
	450	3.27	4.86	5.85	6.71			
	600	4.30	5.94	6.99	8.18			
	750	4.88	6.56	7.65	9.05			
	900	5.50	7.23	8.38	9.56			
RISERS 45°		600R	600R	600R	600R	600R		
Risers 45°	150	2.29	3.81	4.69	5.26	ON APPLICATION	ON APPLICATION	ON APPLICATION
	300	2.61	4.13	5.01	5.58			
	450	2.90	4.42	5.30	6.13			
	600	3.20	4.72	5.60	6.53			
	750	3.47	4.99	5.88	6.92			
	900	3.78	5.30	6.19	7.07			
REDUCERS		Std	Std	Std	Std	Std	Std	Std
Straight Reducers	300	2.14	3.42	4.17	4.62	ON APPLICATION	ON APPLICATION	ON APPLICATION
	450	2.45	3.73	4.47	4.92			
	600	2.89	3.88	4.62	5.85			
	750	3.03	4.31	5.06	5.93			
	900	3.48	4.76	5.51	6.55			

E.&O.E.

## Weight Tables

CABLE LADDER & FITTINGS						
Kounis Type		2/30	3/50	4/70L	4/70	5/112
Straight Ladder 6 m Length	150 mm	19.70	26.20	32.30	39.28	44.98
	300 mm	22.30	29.08	35.17	42.13	47.83
	450 mm	24.90	31.95	38.05	47.11	52.82
	600 mm	27.50	34.83	40.93	50.67	56.38
	750mm	30.10	37.70	43.80	54.24	59.94
	900 mm	32.70	44.89	50.99	57.80	63.50
		0.30	0.47	1.32	1.63	1.86

Kounis Type		2/30	3/50	4/70L & 4/70	5/112	3/50	4/70L & 4/70	5/112	3/50	4/70L & 4/70	5/112
Radius		300R	300R	300R	300R	450R	450R	450R	600R	600R	600R
Bend Fitting 90°	150 mm	1.62	2.72	4.25	5.72	3.34	5.06	6.92	4.13	6.04	8.15
	300 mm	2.36	3.50	5.14	6.75	4.46	6.27	8.28	5.09	7.08	9.34
	450 mm	3.32	4.78	6.50	8.75	5.41	7.32	9.99	6.51	8.61	11.61
	600 mm	4.18	5.72	7.55	10.11	6.99	9.00	12.15	7.63	9.83	13.17
	750 mm	6.00	6.68	8.60	11.46	8.12	10.21	13.71	8.73	11.04	14.74
	900 mm	7.80	8.60	10.60	12.83	10.42	12.62	15.29	12.25	14.64	17.49
Riser Internal / External Fitting 90°	150 mm	1.50	2.45	4.03	5.54	3.24	5.01	6.90	3.86	5.83	7.96
	300 mm	1.82	2.77	4.35	5.86	3.71	5.49	7.38	4.34	6.31	8.43
	450 mm	2.14	3.09	4.67	6.41	4.19	5.96	8.22	4.82	6.79	9.26
	600 mm	2.46	3.41	4.99	6.81	4.67	6.44	8.82	5.30	7.27	9.86
	750 mm	2.78	3.73	5.31	7.20	5.15	6.92	9.42	5.78	7.75	10.45
	900 mm	3.10	4.53	6.11	7.60	6.35	8.12	10.02	6.98	8.95	11.04
Equal Tee Fitting	150 mm	3.92	5.50	7.25	9.31	7.40	9.41	12.33	9.98	12.67	15.91
	300 mm	5.20	6.61	8.45	10.65	8.83	10.91	14.01	11.74	14.50	17.89
	450 mm	6.68	8.21	10.12	13.05	10.10	12.38	16.29	13.33	16.18	20.54
	600 mm	7.24	9.49	11.48	14.75	12.00	14.26	18.62	15.57	18.50	23.43
	750 mm	8.47	10.77	12.82	16.47	13.43	15.76	20.54	17.33	20.34	25.73
	900 mm	9.70	14.45	16.58	19.35	17.49	19.91	23.66	22.20	25.29	29.21
Equal Cross Fitting	150 mm	4.77	7.65	10.52	13.11	10.56	13.57	17.19	14.51	18.14	21.96
	300 mm	5.94	8.82	11.70	14.27	11.89	14.91	18.53	16.48	20.12	23.92
	450 mm	7.61	10.48	13.35	16.62	13.23	16.24	20.58	18.29	21.93	26.78
	600 mm	8.93	11.81	14.69	18.18	15.20	18.21	22.95	20.75	24.38	29.72
	750 mm	10.26	13.14	16.02	19.74	16.69	19.71	24.73	22.84	26.48	32.20
	900 mm	14.23	17.11	19.99	22.49	21.06	24.08	27.70	28.29	31.92	35.61
Bend Fitting 45°	150 mm	0.85	1.77	3.12	4.14	2.08	3.47	4.75	2.40	3.89	5.26
	300 mm	1.18	2.25	3.59	4.74	2.56	4.01	5.37	2.88	4.41	5.88
	450 mm	1.66	2.72	4.11	5.57	3.04	4.53	6.21	3.36	4.94	6.71
	600 mm	2.09	3.20	4.65	6.26	4.15	5.68	7.69	4.46	6.10	8.18
	750 mm	3.00	3.67	5.17	6.94	4.79	6.36	8.57	5.10	6.78	9.05
	900 mm	3.90	4.63	6.16	7.62	6.14	7.78	9.45	6.46	8.19	9.94
Riser Internal / External Fitting 45°	150 mm	0.90	1.72	3.05	4.12	2.04	3.45	4.75	2.34	3.86	5.26
	300 mm	1.10	2.04	3.37	4.44	2.36	3.77	5.07	2.66	4.18	5.58
	450 mm	1.30	2.36	3.69	5.00	2.68	4.09	5.62	2.98	4.50	6.13
	600 mm	1.47	2.68	4.01	5.39	3.00	4.41	6.02	3.30	4.82	6.53
	750 mm	1.70	3.00	4.33	5.79	3.32	4.73	6.42	3.62	5.14	6.92
	900 mm	1.86	3.79	5.13	6.18	4.11	5.53	6.82	4.42	5.94	7.32
Reducers Straight & Offset	300 mm- 150mm	0.93	2.20	3.47	4.63	2.20	3.47	4.63	2.20	3.47	4.63
	450 mm- 300mm	1.25	2.52	3.79	4.95	2.52	3.79	4.95	2.52	3.79	4.95
	600 mm- 450mm	1.70	2.97	3.95	5.85	2.97	3.95	5.85	2.97	3.95	5.85
	750 mm- 600 mm	1.89	3.16	4.43	5.94	3.16	4.43	5.94	3.16	4.43	5.94

Note: Weight table includes Hot Dip Galvanised and 316 Stainless Steel

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## Weight Tables

CABLE TRAY SYSTEMS							
Kounis Type	Light Duty Tray				Punched Tray		
Range/Finish	LD Galvabond	LD Aluminium	LD HDG	LD 316 SS	CP Galvabond	KAPT Galvabond	CT HDG
75 mm	2.18	1.91	2.29	2.61	1.56	1.22	5.3
100 mm	2.54	2.22	2.66	3.04	1.93	1.51	6.21
150 mm	3.29	2.89	3.46	3.94	2.67	2.1	7.79
230 mm	4.45	3.9	4.67	5.33	3.86	2.96	10.33
300 mm	5.52	4.84	5.79	6.61	4.89	3.83	12.55
450 mm	11.68	6.79	12.26	9.27	10.74	5.58	17.3
600 mm	15.03	8.74	15.78	11.93	14.09	7.32	22.05
Splice Plates	0.2	0.18	0.21	0.24	0.2	N/A	0.11

Kounis Type	Ladder Tray			
Range/Finish	KT3 Galvabond	KT3 HDG	KT5 Galvabond	KT5 HDG
150 mm	5.8	6.15	7.2	7.64
300 mm	8.6	9.17	9.9	10.5
450 mm	11.4	12.09	12.6	13.36
600 mm	14.2	15.06	15.3	16.22
Splice Plate	0.17	0.18	0.32	0.34

STANDARD CABLE DUCT						
Duct x 2.4 m Length	Screw Lid			Clip Lid		
	CODE	Duct Size	Weight kg	CODE	Duct Size	Weight kg
	KDS75	75 x 50 mm	3.94	KDC75	75 x 50	3.77
	KDS155	150 x 50 mm	3.94	KDC155	150 x 50	3.77
	KDS55	50 x 50 mm	3.49	KDC55	50 x 50	3.45
	KDS77	75 x 75 mm	5.05	KDC77	75 x 75	4.99
	KDS107	100 x 75 mm	4.68	KDC107	100 x 75	4.45
	KDS1517	150 x 75 mm	6.26	KDC1517	150 x 75	5.93
	KDS105	100 x 50 mm	4.97	KDC105	100 x 50	4.8
	KDS1010	100 x 100 mm	6.45	KDC1010	100 x 100	6.22
	KDS1510	150 x 100 mm	8.04	KDC1510	150 x 100	7.9
	KDS2010	200 x 100 mm	9.23	KDC2010	200 x 100	8.9
	KDS3015	300 x 150 mm	1.03	KDC3015	300 x 150	1.22
	KDS1515	150 x 150 mm	9.43	KDC1515	150 x 150	9.39

Material	0.6 mm	1.2 mm	1.55 mm	1.2 mm	1.6 mm	0.6 mm	1.0 mm	2.0 mm
Straight Cover 3 m Length	150 mm	3.15	6.37	8.79	7.05	9.35	3.28	11.18
	300 mm	5.55	11.21	15.46	11.5	16.45	5.77	19.82
	450 mm	7.94	16.05	22.13	15.93	23.55	8.27	28.46
	600 mm	10.33	20.89	28.8	20.39	30.64	10.76	37.1
	750 mm	12.74	25.75	35.5	24.83	37.78	13.26	45.73
	900 mm	15.13	30.59	42.17	29.28	44.88	15.75	54.37

Material	0.6 mm	1.2 mm	1.55 mm	1.2 mm	1.6 mm	0.6 mm	1.0 mm	2.0 mm
Straight Cover x 3 m Length	150 mm	2.93	5.93	8.17	8	8.7	3.05	9.99
	300 mm	5.01	10.12	13.96	13.32	14.85	5.21	18.07
	450 mm	7.08	14.32	19.74	18.65	21	7.37	25.56
	600 mm	9.16	18.51	25.52	23.96	27.16	9.53	33.05
	750 mm	11.23	22.7	31.3	29.3	33.31	11.69	40.54
	900 mm	13.3	26.9	37.09	34.61	39.46	13.85	48.03

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BT850	7:24	CSKH12	7:24	HDCBN12	3:19	K1272	7:12
BT875	7:24	CTB7	2:11	HDCC10	3:19	K1272A	7:12
BT1060	7:24	CTB10	2:11	HDCC12	3:19	K1273	7:13
BT1075	7:24	CTB15	2:11	HDCS	3:19	K1325	7:15
BT1275	7:24	CTB23	2:11	HHS0620	7:23	K1326	7:15
BT6550	7:24	CTB30	2:11	HHS0625	7:23	K1354Z	7:14
CHB	3:20	CTB45	2:11	HHS0820	7:23	K1357	7:15
CKS0620	7:23	CTB60	2:11	HHS0825	7:23	K1358	7:16
CKS0820	7:23	CTC7	2:11	HHS0830	7:23	K1359	7:15
CPB7	2:05	CTC10	2:11	HHS1020	7:23	K1376	7:16
CPB10	2:05	CTC15	2:11	HHS1025	7:23	K1377	7:16
CPB15	2:05	CTC23	2:11	HHS1030	7:23	K1386	7:12
CPB23	2:05	CTC30	2:11	HHS1040	7:23	K1458	7:15
CPB30	2:05	CTC45	2:11	HHS1225	7:23	K1474	7:15
CPB45	2:05	CTC60	2:11	HHS1230	7:23	K1546	7:14
CPB60	2:05	CTD	2:10	HHS1240	7:23	K1600-34	7:11
CPC7	2:05	CTFC7	2:10	HHS1260	7:23	K1600-43	7:11
CPC10	2:05	CTFC10	2:10	HHS1265	7:23	K1600-48	7:11
CPC15	2:05	CTFC15	2:10	HHS1640	7:23	K1600-60	7:11
CPC23	2:05	CTFC23	2:10	HN06	7:23	K1600-76	7:11
CPC30	2:05	CTFC30	2:10	HN08	7:23	K1600-89	7:11
CPC45	2:05	CTFC45	2:10	HN10	7:23	K1600-102	7:11
CPC60	2:05	CTFC60	2:10	HN12	7:23	K1600-114	7:11
CPP7	2:05	CTSBUSH	2:10	HN16	7:23	K1600-152	7:11
CPP10	2:05	CTSPAD	2:10	K1000	7:03	K1600-165	7:11
CPP15	2:05	CTST	2:10	K1000CI	7:08	K1663	7:08
CPP23	2:05	CTP	2:10	K1000T	7:03	K1727	7:15
CPP30	2:05	CTLRW1 x W2	2:11	K1001	7:03	K1736	7:16
CPP45	2:05	CTRRW1 x W2	2:11	K1006	7:22	K1796	7:12
CPP60	2:05	CTSRW1 x W2	2:11	K1007	7:22	K1796A	7:12
CPRI7	2:05	CTT7	2:10	K1008	7:22	K1834	7:14
CPRI10	2:05	CTT10	2:10	K1010	7:22	K1834A	7:14
CPRI15	2:05	CTT15	2:10	K1012	7:22	K1941	7:16
CPRI23	2:05	CTT23	2:10	K1026	7:15	K1953	7:16
CPRI30	2:05	CTT30	2:10	K1031	7:16	K1964	7:16
CPRI45	2:05	CTT45	2:10	K1033	7:15	K2000	7:04
CPRI60	2:05	CTT60	2:10	K1036	7:16	K2000T	7:04
CPRX7	2:05	CTTT7	2:11	K1037	7:15	K2001	7:04
CPRX10	2:05	CTTT10	2:11	K1038	7:15	K2072-S1	7:15
CPRX15	2:05	CTTT15	2:11	K1044	7:16	K2072A	7:15
CPRX23	2:05	CTTT23	2:11	K1045	7:16	K2073	7:15
CPRX30	2:05	CTTT30	2:11	K1046	7:16	K2095	7:14
CPRX45	2:05	CTTT45	2:11	K1047	7:16	K2097	7:14
CPRX60	2:05	CTTT60	2:11	K1062	7:16	K2101	7:14
CPS1040	7:23	CTVP	2:11	K1063	7:16	K2103	7:14
CPS1240	7:23	DB0840	7:23	K1064	7:16	K2106	7:14
CPS1250	7:23	DB1040	7:23	K1065	7:16	K2108	7:14
CPT7	2:05	DB1050	7:23	K1066	7:16	K2223	7:17
CPT10	2:05	DB1075	7:23	K1067	7:16	K2224	7:17
CPT15	2:05	DB1260	7:23	K1068	7:15	K2228	7:17
CPT23	2:05	DB12100	7:23	K1075	7:10	K2235	7:15
CPT30	2:05	DIM06	7:23	K1075A	7:10	K2240	7:18
CPT45	2:05	DIM08	7:23	K1184	7:18	K2335	7:17
CPT60	2:05	DIM10	7:23	K1186	7:14	K2346	7:17
CPTT7	2:05	DIM12	7:23	K1200A-10	7:13	K2378	7:22
CPTT10	2:05	DIM16	7:23	K1200B-10	7:13	K2379	7:22
CPTT15	2:05	FW06	7:23	K1200C-10	7:13	K2380	7:22
CPTT23	2:05	FW08	7:23	K1200D-10	7:23	K2381	7:22
CPTT30	2:05	FW10	7:23	K1220	7:18	K2452	7:14
CPTT45	2:05	FW12	7:23	K1221	7:18	K2484	7:15
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K2493	7:10	K5-16	7:11	K5038-1	7:11	KBC08	7:12
K2494	7:10	K5-18	7:11	K5040-1	7:11	KBC10	7:12
K2495	7:10	K5-20	7:11	K5042-1	7:11	KBC12	7:12
K2497	7:10	K5-21	7:11	K5044-1	7:11	KC06	7:23
K2500	7:10	K5-22	7:11	K5046-1	7:11	KC08	7:23
K2513F	7:10	K5-25	7:11	K5500	7:07	KC10	7:23
K2514B	7:10	K5-27	7:11	K5500T	7:07	KC12	7:23
K2514F	7:10	K5-29	7:11	K5501	7:07	KC16	7:23
K2515B	7:10	K5-32	7:11	K5508	7:22	KC74	7:21
K2515F	7:10	K5-34	7:11	K5510	7:22	KC105	7:21
K2516B	7:10	K5-35	7:11	K5540	7:18	KC157	7:21
K2516F	7:10	K5-38	7:11	K5547	7:16	KCC17	7:19
K2517B	7:10	K5-42	7:11	K992	7:18	KCC36	7:19
K2517F	7:10	K5-43	7:11	KA506	7:21	KCC45	7:19
K2521-75	7:17	K5-44	7:11	KA756	7:21	KDBS55	1:05
K2521-100	7:17	K5-48	7:11	KAC19	7:19	KDBS77	1:05
K2535-75	7:17	K5-49	7:11	KAC25	7:19	KDBS105	1:05
K2539	7:17	K5-51	7:11	KAC31	7:19	KDBS1010	1:05
K2542	7:10	K5-54	7:11	KAC42	7:19	KDBS1510	1:05
K2543	7:10	K5-57	7:11	KAC48	7:19	KDBS1515	1:05
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K2545	7:10	K5-64	7:11	KAPT10	2:03	KDC77	1:03
K2546	7:10	K5-67	7:11	KAPT15	2:03	KDC105	1:03
K2552	7:18	K5-70	7:11	KAPT23	2:03	KDC1010	1:03
K2749	7:14	K5-76	7:11	KAPT30	2:03	KDC1510	1:03
K2750	7:14	K5-79	7:11	KAPT45	2:03	KDC1515	1:03
K2755	7:17	K5-83	7:11	KAPT60	2:03	KDD	1:03
K2785	7:12	K5-86	7:11	KAPTB7	2:03	KDE55	1:03
K2786	7:12	K5-89	7:11	KAPTB10	2:03	KDE77	1:03
K2855	7:17	K5-92	7:11	KAPTB15	2:03	KDE105	1:03
K2950	7:14	K5-95	7:11	KAPTB23	2:03	KDE1010	1:03
K3006	7:22	K5-98	7:11	KAPTB30	2:03	KDE1510	1:03
K3007	7:22	K5-102	7:11	KAPTB45	2:03	KDE1515	1:03
K3008	7:22	K5-105	7:11	KAPTB60	2:03	KDF55	1:03
K3010	7:22	K5-108	7:11	KAPTC7	2:03	KDF77	1:03
K3012	7:22	K5-111	7:11	KAPTC10	2:03	KDF105	1:03
K3016	7:22	K5-114	7:11	KAPTC15	2:03	KDF1010	1:03
K3087	7:12	K5-117	7:11	KAPTC23	2:03	KDF1510	1:03
K3088	7:12	K5-121	7:11	KAPTC30	2:03	KDF1515	1:03
K3116	7:22	K5-127	7:11	KAPTC45	2:03	KDP55	1:03
K3300	7:05	K5-133	7:11	KAPTC60	2:03	KDP77	1:03
K3300CI	7:08	K5-139	7:11	KAPT7	2:03	KDP105	1:03
K3300T	7:05	K5-146	7:11	KAPT10	2:03	KDP1010	1:03
K3301	7:05	K5-152	7:11	KAPT15	2:03	KDP1510	1:03
K3676	7:12	K5-159	7:11	KAPT23	2:03	KDP1515	1:03
K367910Z	7:12	K5-165	7:11	KAPT30	2:03	KDRS105	1:05
K367912Z	7:12	K5-178	7:11	KAPT45	2:03	KDRS1510	1:05
K3683	7:12	K5-191	7:11	KAPT60	2:03	KDS55	1:03
K4000	7:06	K5-203	7:11	KAPT7	2:03	KDS77	1:03
K4000T	7:06	K5-219	7:11	KAPT10	2:03	KDS105	1:03
K4001	7:06	K5-230	7:11	KAPT15	2:03	KDS1010	1:03
K4006	7:22	K5-241	7:11	KAPT23	2:03	KDS1510	1:03
K4007	7:22	K5-254	7:11	KAPT30	2:03	KDS1515	1:03
K4008	7:22	K5-305	7:11	KAPT45	2:03	KDSRSD1XD2	1:05
K4010	7:22	K5-315	7:11	KAPT60	2:03	KDTS55	1:04
K4045	7:16	K5-324	7:11	KAPT7	2:03	KDTS77	1:04
K4047	7:16	K5026-1	7:11	KAPT10	2:03	KDTS105	1:04
K4240	7:18	K5028-1	7:11	KAPT15	2:03	KDTS1010	1:04
K4663	7:08	K5030-1	7:11	KAPT23	2:03	KDTS1510	1:04
K5-8	7:11	K5032-1	7:11	KAPT30	2:03	KDTS1515	1:04
K5-10	7:11	K5034-1	7:11	KAPT45	2:03	KDXS55	1:04

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KDXS105	1:04	KRC06	7:19	KTH230	7:20	LRX30	2:08
KDXS1010	1:04	KRC08	7:19	KTH300	7:20	LRX45	2:08
KDXS1510	1:04	KRC10	7:19	KTH450	7:20	LRX60	2:08
KDXS1515	1:04	KSA25	7:20	KTH600	7:20	LDT7	2:07
KF506	7:21	KSA40	7:20	KHTS15	2:19	LDT10	2:07
KF756	7:21	KSA50	7:20	KHTS30	2:19	LDT15	2:07
KF1006	7:21	KSC25	7:20	KHTS45	2:19	LDT23	2:07
KF1506	7:21	KSF40	7:20	KHTS60	2:19	LDT30	2:07
KHTS15	2:19	KSM25	1:06	KLTS15	2:19	LDT45	2:07
KHTS30	2:19	KSM32	1:06	KLTS30	2:19	LDT60	2:07
KHTS45	2:19	KSM38	1:06	KLTS45	2:19	LP7	2:07
KHTS60	2:19	KSM50	1:06	KLTS60	2:19	LP10	2:07
KLTS15	2:19	KSM75	1:06	KTPC15	2:19	LP15	2:07
KLTS30	2:19	KSM100	1:06	KTPC30	2:19	LP23	2:07
KLTS45	2:19	KSZ25	7:20	KTPC45	2:19	LP30	2:07
KLTS60	2:19	KT215	2:13	KTPC60	2:19	LP45	2:07
KM10510	2:25	KT230	2:13	KWN06	7:13	LP60	2:07
KM10515	2:25	KT245	2:13	KWN08	7:13	LT7	2:07
KM10530	2:25	KT260	2:13	KWN10	7:13	LT10	2:07
KM10545	2:25	KT2BS	2:22	KWN12	7:13	LT15	2:07
KM10560	2:25	KT2HDC	2:22	LB7	2:08	LT23	2:07
KM5410	2:24	KT2LP	2:22	LB10	2:08	LT30	2:07
KM5415	2:24	KT2RP	2:22	LB15	2:08	LT45	2:07
KM5430	2:24	KT2SP	2:22	LB23	2:08	LT60	2:07
KM5440	2:24	KT2TX	5:16	LB30	2:08	PHS0620	7:23
KM5450	2:24	KT2FC15	2:16	LB45	2:08	PHS0625	7:23
KM5460	2:24	KT2FC30	2:16	LB60	2:08	PHS0825	7:23
KMA06	2:26	KT2FC45	2:16	LC7	2:07	SD-M8	7:24
KMA0910	2:27	KT2FC60	2:16	LC10	2:07	SD-M10	7:24
KMA0915	2:27	KT2PC15	2:16	LC15	2:07	SHDC02	3:19
KMA0930	2:27	KT2PC30	2:16	LC23	2:07	SHDC03	3:19
KMA0940	2:27	KT2PC45	2:16	LC30	2:07	SHM06	7:24
KMA0950	2:27	KT2PC60	2:16	LC45	2:07	SHM08	7:24
KMA0960	2:27	KT315	2:17	LC60	2:07	SHM10	7:24
KMA1410	2:27	KT330	2:17	LDC7	2:07	SHM12	7:24
KMA1415	2:27	KT345	2:17	LDC10	2:07	SW06	7:23
KMA1430	2:27	KT360	2:17	LDC15	2:07	SW08	7:23
KMA1440	2:27	KT3BS	2:22	LDC23	2:07	SW10	7:23
KMA1450	2:27	KT3HDC	2:22	LDC30	2:07	SW12	7:23
KMA1460	2:27	KT3LP	2:22	LDC45	2:07	SW16	7:23
KMA19	2:27	KT3RP	2:22	LDC60	2:07	VH6532-M08	7:24
KMDXBBA	2:28	KT3SP	2:22	LFC7	2:07	VH6538-M10	7:24
KMDXBZ	2:28	KT3TX	2:22	LFC10	2:07	VHM06	7:24
KMLO5A	2:28	KT515	2:18	LFC15	2:07	VHM08	7:24
KML01A	2:26	KT530	2:18	LFC23	2:07	VHM10	7:24
KML03	2:26	KT545	2:18	LFC30	2:07	WHKH	7:24
KML06	2:26	KT560	2:18	LFC45	2:07		
KML10	2:26	KT5BS	2:22	LFC60	2:07		
KMLDA	2:27	KT5HDC	2:22	LLRW1 x W2	2:08		
KPC08	7:13	KT5LP	2:22	LRRW1 x W2	2:08		
KPC10	7:13	KT5RP	2:22	LSRW1 x W2	2:08		
KPC12	7:13	KT5SP	2:22	LRI7	2:08		
KPM32	1:06	KT5TX	2:22	LRI10	2:08		
KPM38	1:06	KTBN	2:22	LRI15	2:08		
KPM50	1:06	KTFC15	2:19	LRI23	2:08		
KPM75	1:06	KTFC30	2:19	LRI30	2:08		
KPM100	1:06	KTFC45	2:19	LRI45	2:08		
KR06	7:23	KTFC60	2:19	LRI60	2:08		
KR08	7:23	KTH75	7:20	LRX7	2:08		
KR10	7:23	KTH100	7:20	LRX10	2:08		
KR12	7:23			LRX15	2:08		

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