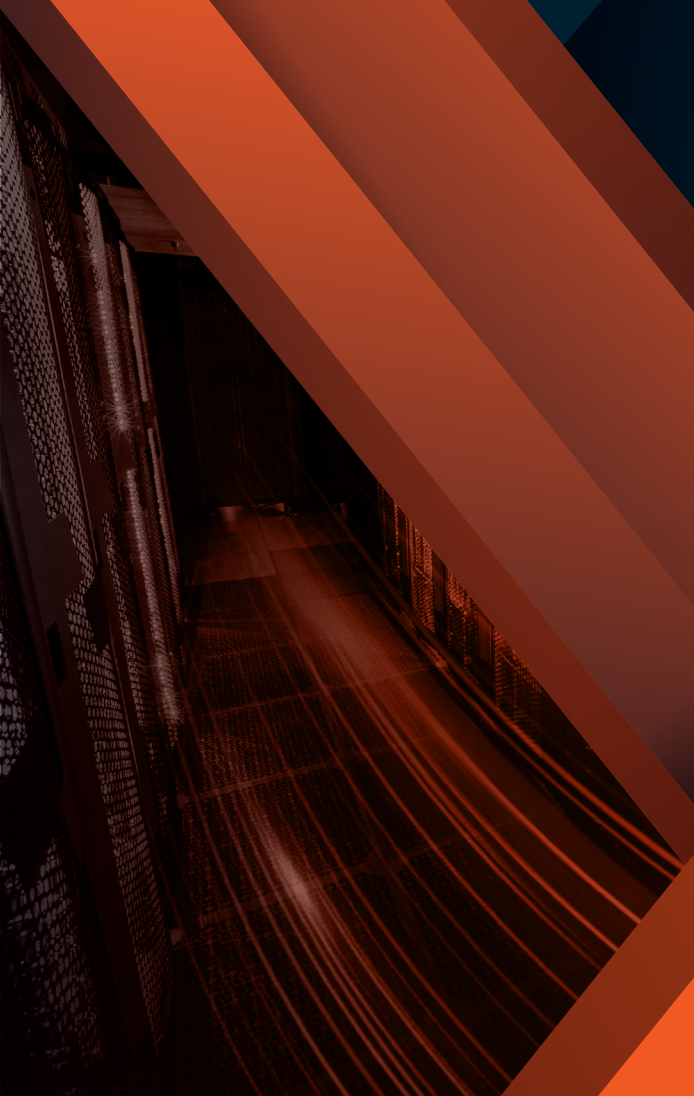
FAT COMMS

Leading the way in Comms, Rail and Procurement Industries



FATCOMMS.IO

The benefits of Indigenous procurement go beyond fulfilling government requirements; they touch the very core of social responsibility and inclusive growth. As a majority Indigenous owned business, FAT Comms offers a unique avenue to meet and surpass Indigenous procurement targets. By purchasing Kounis products through FAT Comms, clients can demonstrate their commitment to Indigenous procurement to meet Indigenous procurement targets. It's not merely a transaction; it's a statement of support for an inclusive future.

FAT Comms represents a commitment to social responsibility and empowerment. As a majority Indigenous owned business, we are aligned with Indigenous Procurement Policies at both federal and state levels. Our registration with key organisations such as Supply Nation and Kinaway underscores our mission to foster growth within the Indigenous community while delivering unparalleled services to our clients.

Contact FAT Comms today:

sales@fatcomms.io

https://www.fatcomms.io/

KOUNIS GROUP SINCE 1953

ABN 43 008 701 335

Electrical Cable Support Systems

AUSTRALIA WIDE AUSTRALIAN MADE

Quality Endorsed Company ISO9001 Lic No 13146

EDITION 2

KOUNIS GROUP

SINCE 1953

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.

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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.

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.
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.

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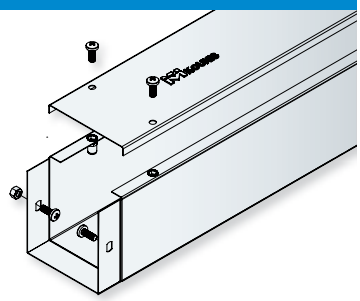
FIRE RATED SECTION See separate catalogue for Fire Rated Cable Ladder and Tray Systems. Fire rated to AS/NZS 3013:2005

SECTION 1: Cable Ducting

Screw on Lid Cable Duct



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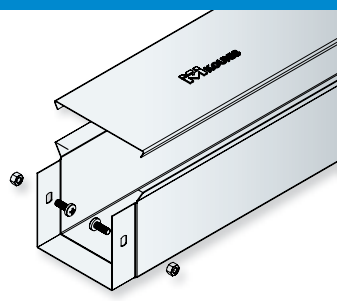
Clip on Lid Cable Duct



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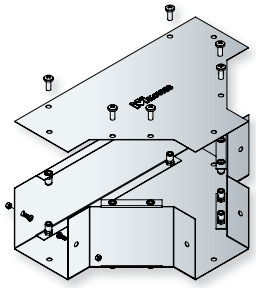
Equal Tee



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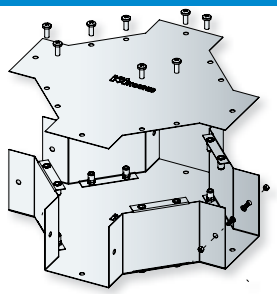
Equal Cross



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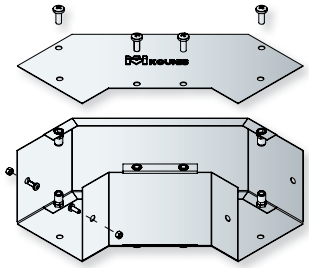
Combination Bend/Riser



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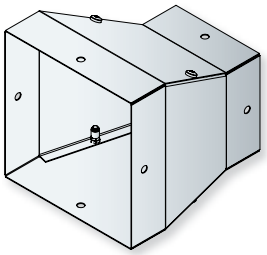
Reducers



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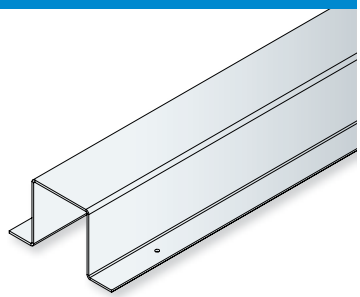
Surface Mounted Cable Covers



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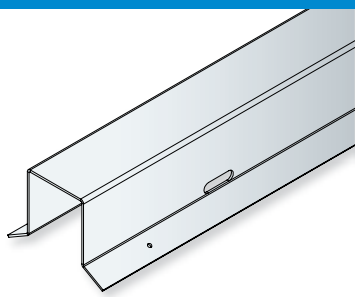
Pole Mounted Cable Covers



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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

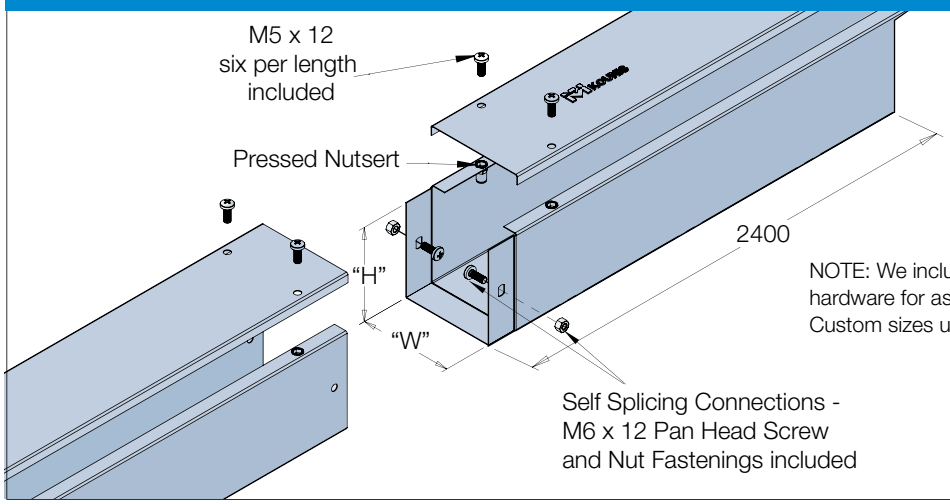
Custom sizes and painted finish is available on request

Kounis Group Standard Colour Range

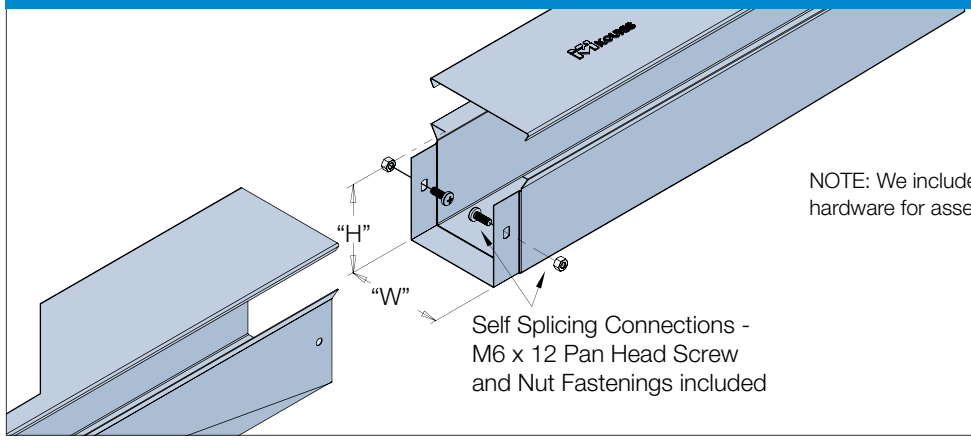
Optional Polyester Powder Coat finishes can be provided from our standard stock colours. Our range is White, Black, Orange and Grey Hammertone. Other colours or epoxy powder coat finish can be provided to firm orders.

Cable Duct

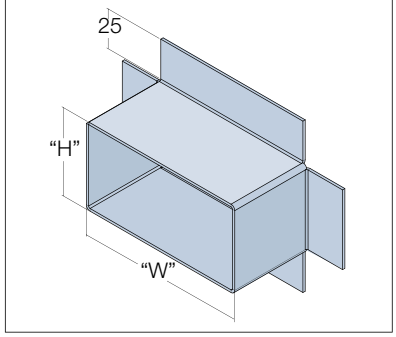
Screw on Lid Cable Duct



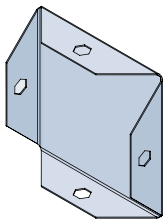
Clip on Lid Cable Duct



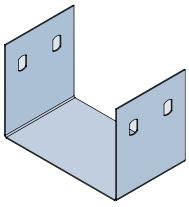
Flange



End Cap



Splice Plate



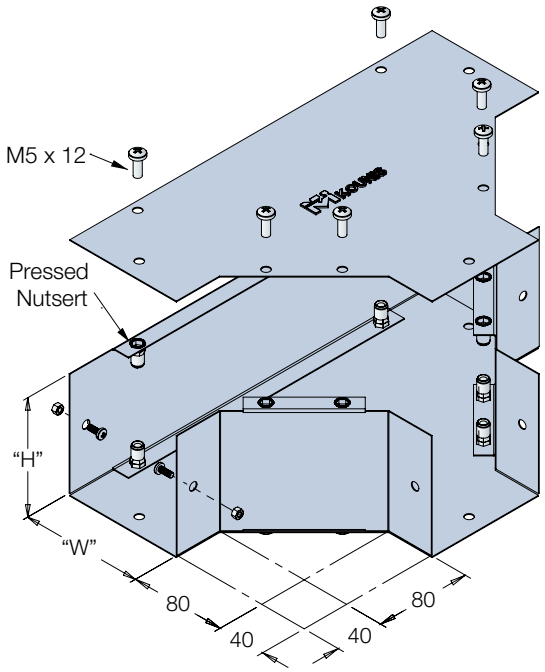
When Ordering

Range	Type	Size	Std.Finish	Fastenings	Finish
KD	**S**	**55**	**G**	**K**	**PC-COL**
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	

E.&O.E.

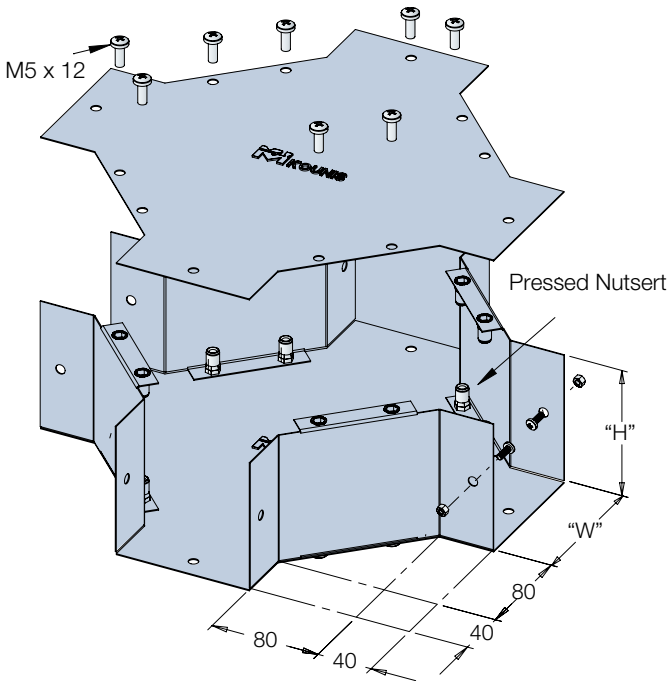
Cable Duct Fittings

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
KD	**TS**	**55**	**G**	**K**	**PC-COL**
KD = Duct & Lid	TS = Tee Equal XS = Cross Equal Screw on lids	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 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.	

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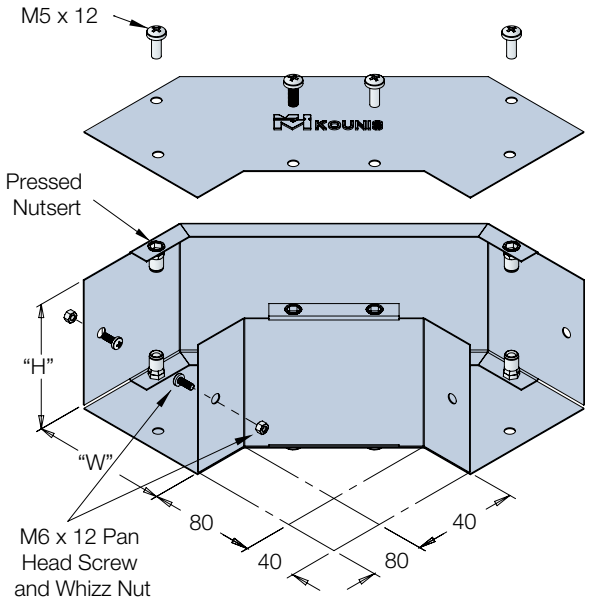
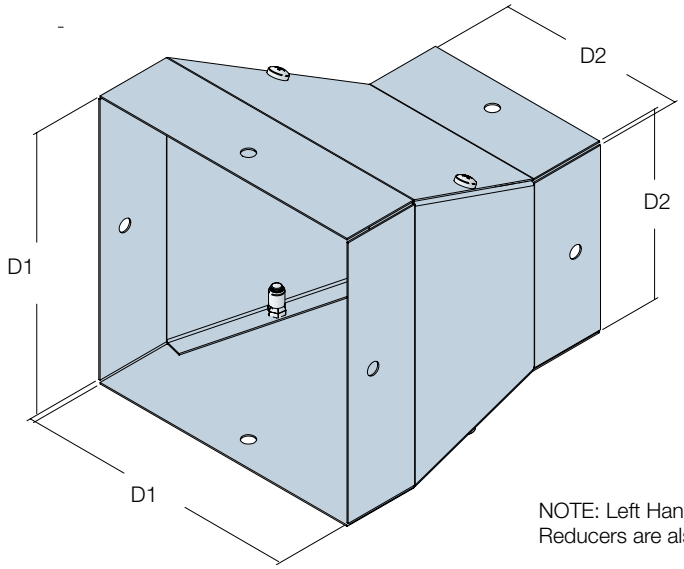
Cable Duct Fittings

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
KD	**BS**	**55**	**G**	**K**	**PC-COL**
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.

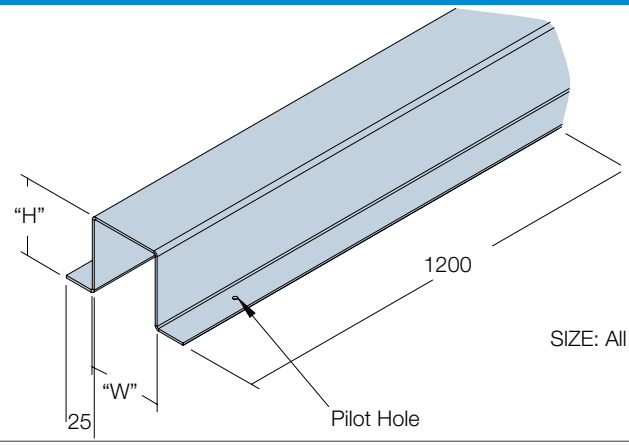
The finished product is constructed from 1.6 mm Mild Steel with post production ***Hot Dip Galvanised*** surface treatment or 1 mm 316 Grade ***Stainless Steel.***

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.

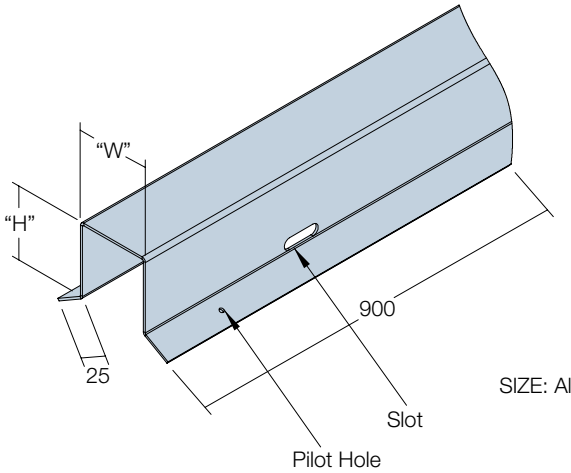
Custom sizes and painted finish is available on request.

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

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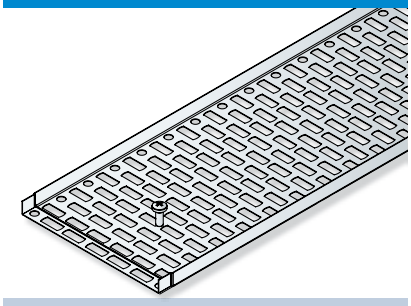
SECTION 2: Cable Tray

Admiralty Pattern Tray



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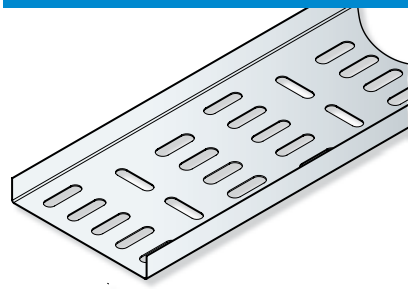
Continuous Punch Cable Tray



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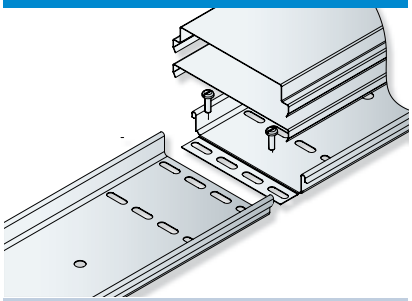
Light Duty Tray



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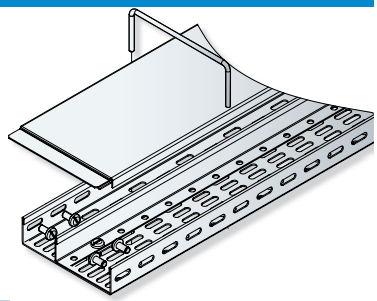
CT Heavy Duty Cable Tray



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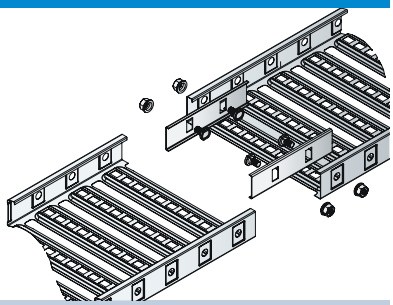
KT2 Ladder Tray



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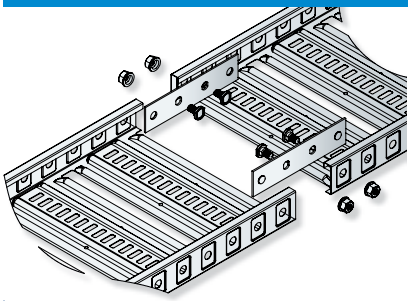
KT3-5 Ladder Tray



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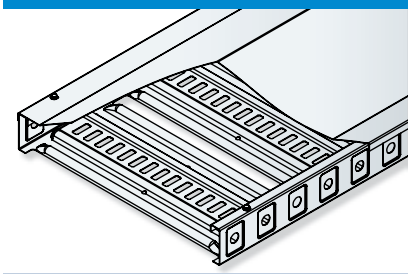
KT3-5 Ladder Tray Covers/ Trapeze Supports



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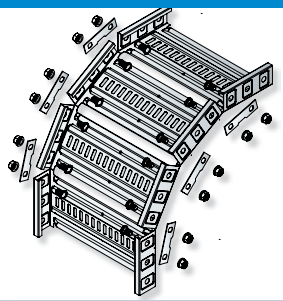
KT3-5 Ladder Tray Riser & Tee



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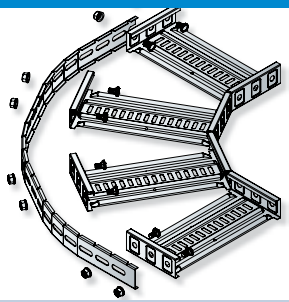
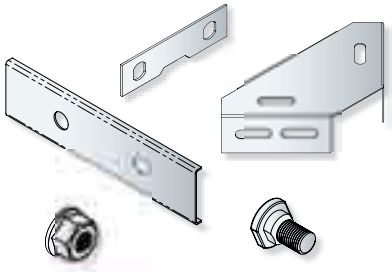
KT3-5 Ladder Tray Bend & Cross



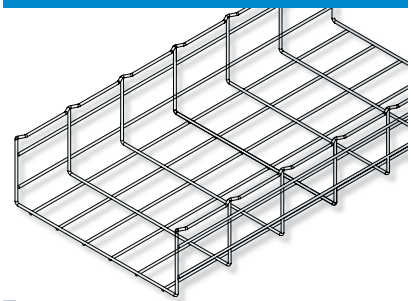
> 2:21

KT2-5 Ladder Tray Accessories



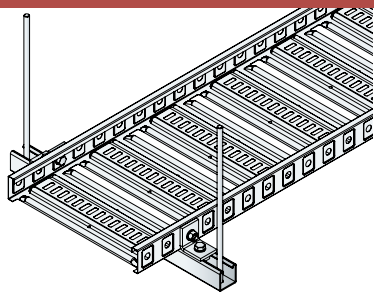
> 2:22

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.

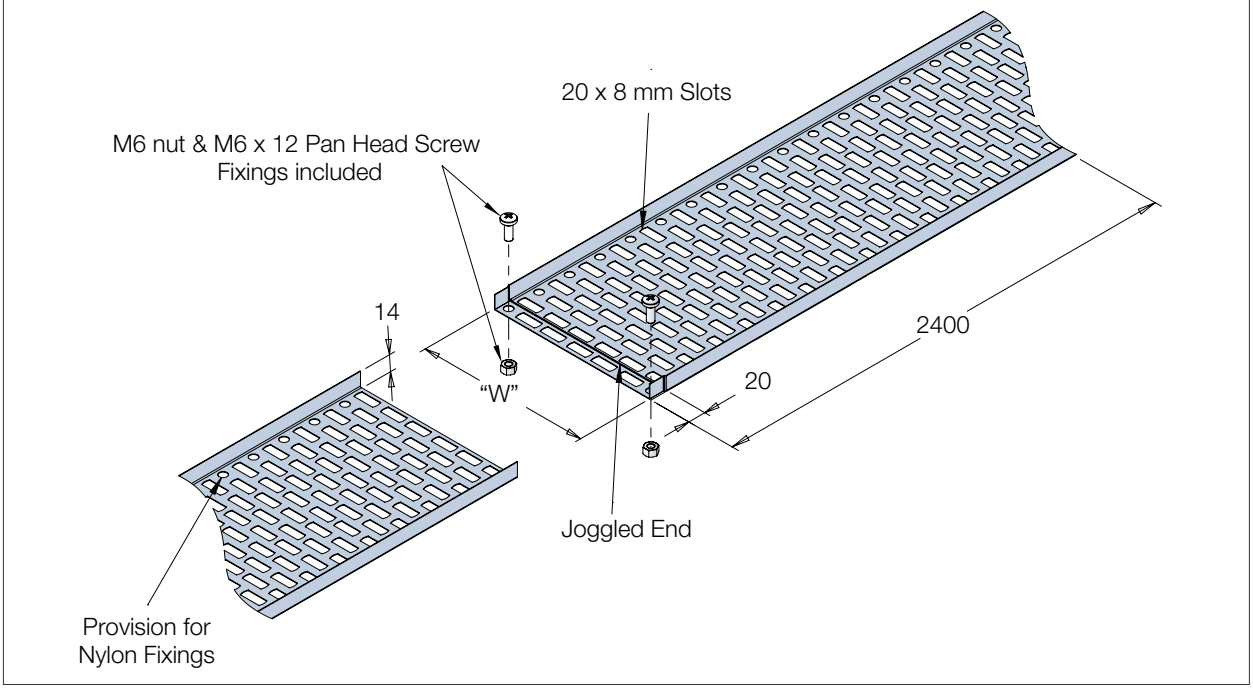
The finished product is constructed from 0.75 mm base material of which there are two options; ***Galvabond*** and post production ***Hot Dip Galvanised*** surface treatment. Both of which offer the following features:

- 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.

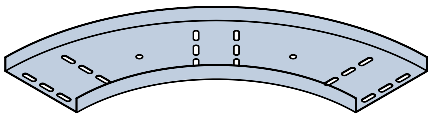
Admiralty Pattern Tray

Admiralty Pattern Tray

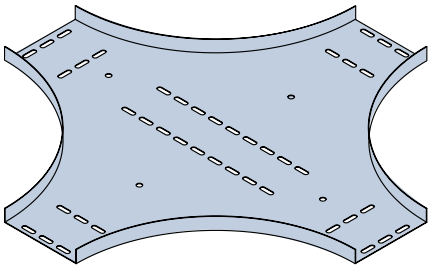


Fittings Available on Request

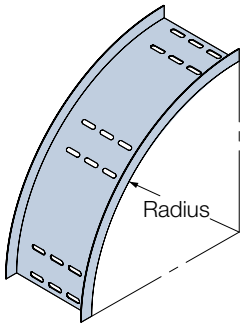
90° Bend



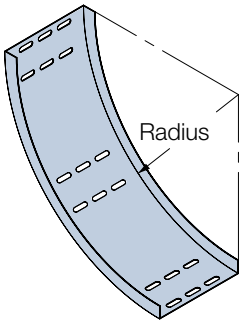
Equal Cross



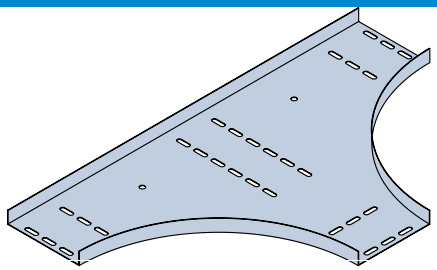
90° External Riser



90° Internal Riser



Equal Tee



When Ordering

Range	Type	Wide	Std.Finish	Fastenings	Finish
KAP	**T**	**7**	**G**	**K**	**PC-COL**
KAP = Admiralty Pattern Tray	T = Tray TB = Bend 90D TT = Tee Equal TC = Cross Equal TRX = External Riser 90° TRI = Internal Riser 90°	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	K = Includes all Bolts and Nuts	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.

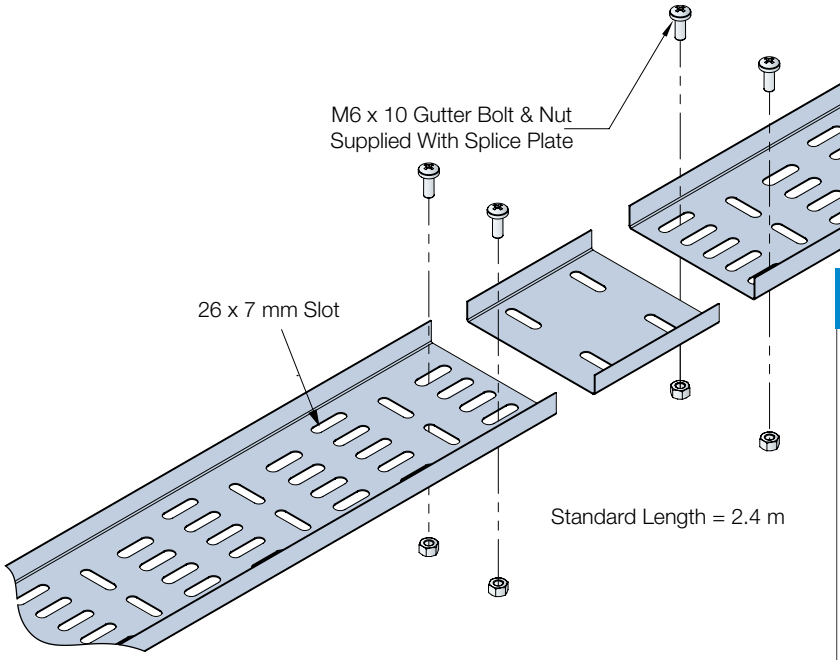
The finished product is constructed from a variety of material finishes and thicknesses ranging from; ***Galvabond*** 0.90 mm, ***Hot Dip Gavanised*** 0.90 mm, 316 Grade ***Stainless Steel*** 0.90 mm and ***Aluminium*** 2.0 mm. All of which offer the following standard features and options:

- 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

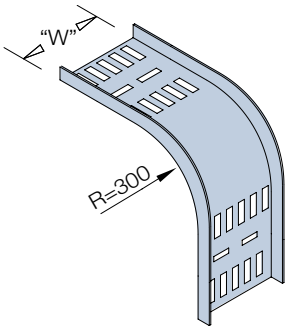
Custom sizes and painted finish available on request

Continuous Punch Cable Tray

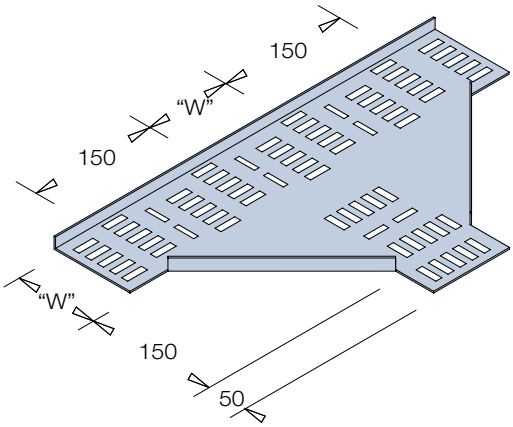
Cable Tray



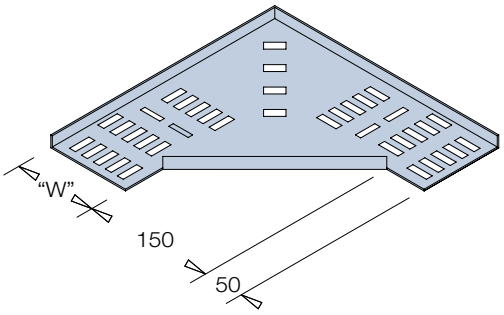
90° External Riser



Equal Tee



90° Bend



When Ordering

Range	Type	Wide	Std.Finish	Fastenings	Finish
CP	**T**	**7**	**G**	**K**	**PC-COL**
CP = Continuous Punch Cable Tray	T = Tray B = Bend 90° TT = Tee Equal C = Cross Equal RX = External Riser 90° RI = Internal Riser 90° 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 Bolts and Nuts	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.	

E.&O.E.

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.

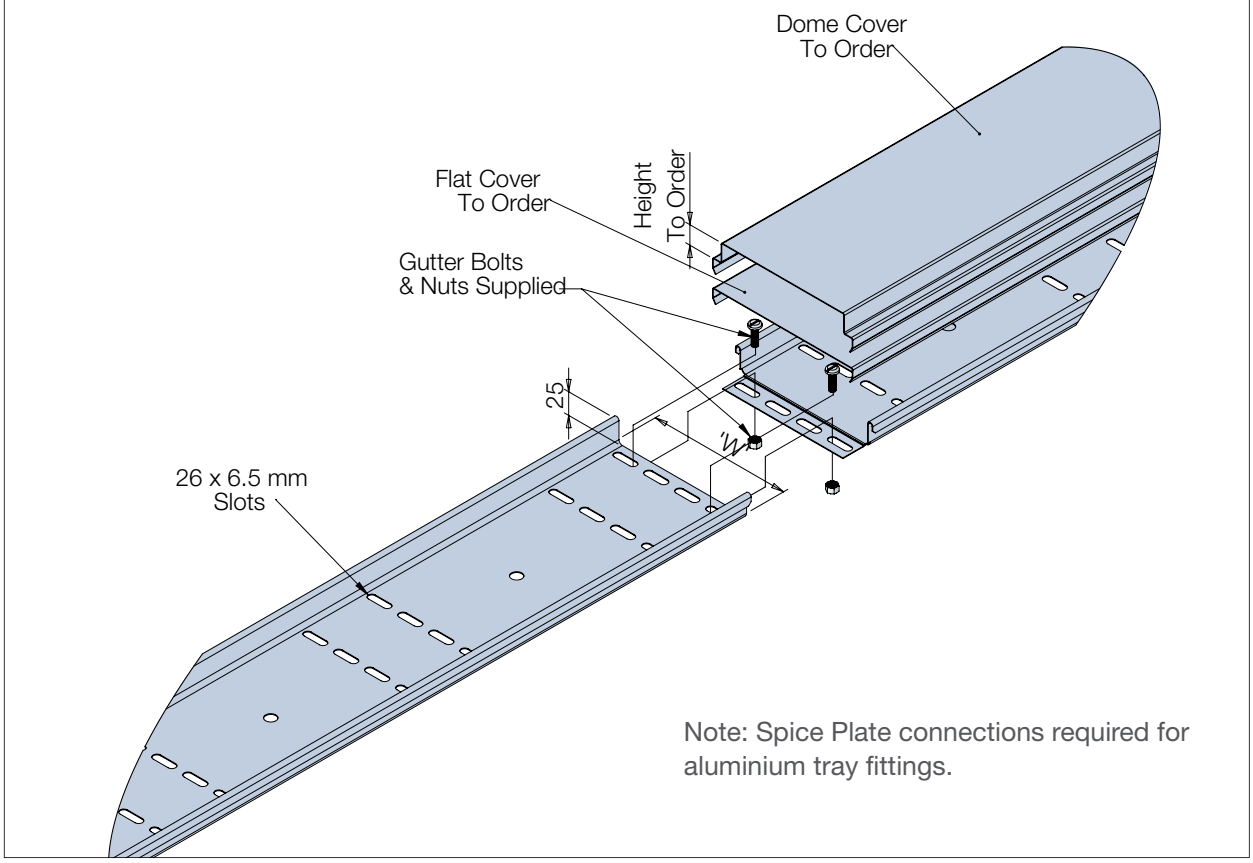
The finished product is constructed from a variety of material finishes and thicknesses; ***Galvabond*** 0.8 mm thick up to 300 mm wide and 1.0 mm for 450 and 600, ***Hot Dip Galvanised*** 0.8 mm thick up to 300 mm wide and 1.0 mm for 450 and 600, ***Stainless Steel*** 0.9 mm thick all sizes, ***Aluminium*** 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

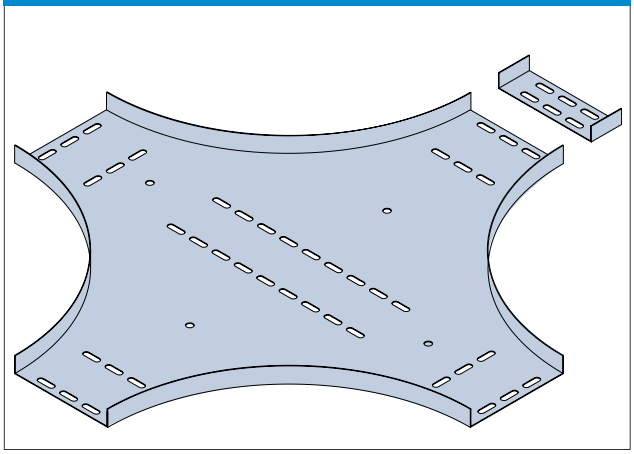
Light Duty Tray

Light Duty Tray

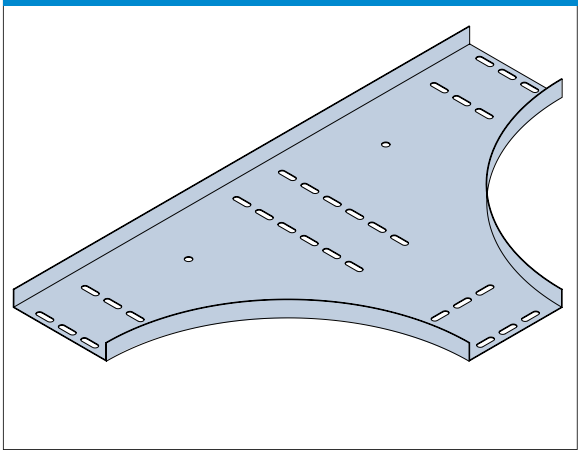


Note: Spice Plate connections required for aluminium tray fittings.

Equal Cross



Equal Tee



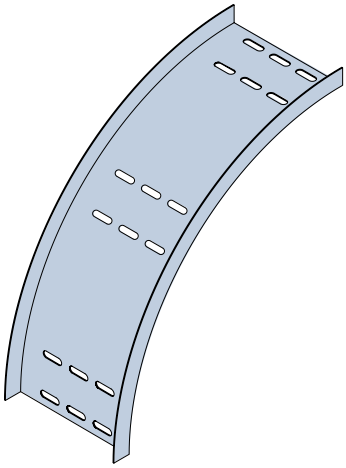
When Ordering

Range	Type	Wide	Std.Finish	Fastenings	Finish
L	**DT**	**7**	**G**	**K**	**PC-COL**
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.	

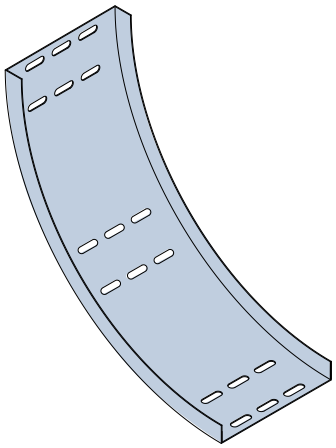
E.&O.E.

Light Duty Tray

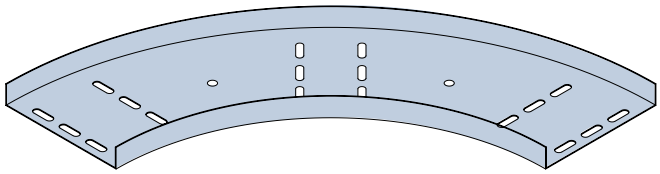
90° External Riser



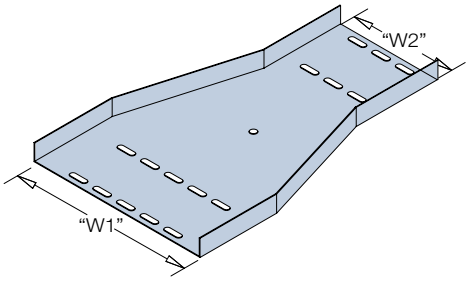
90° Internal Riser



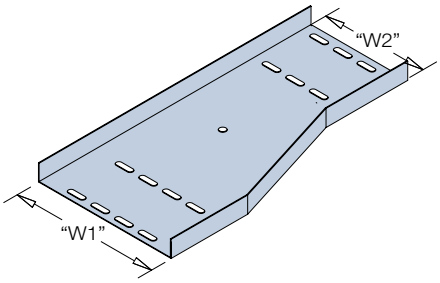
90° & 45° Bend



Straight Reducer



Offset Reducer Left



When Ordering

Range	Type	Wide	Std.Finish	Fastenings	Finish
L	**B**	**7**	**G**	**K**	**PC-COL**
L = Light Duty Cable Tray	B = Bend 90D RX = External Riser 90° RI = Internal Riser 90° SR = Straight Reducer LR = Left Reducer RR = Right Reducer (see notes)	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 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.&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.

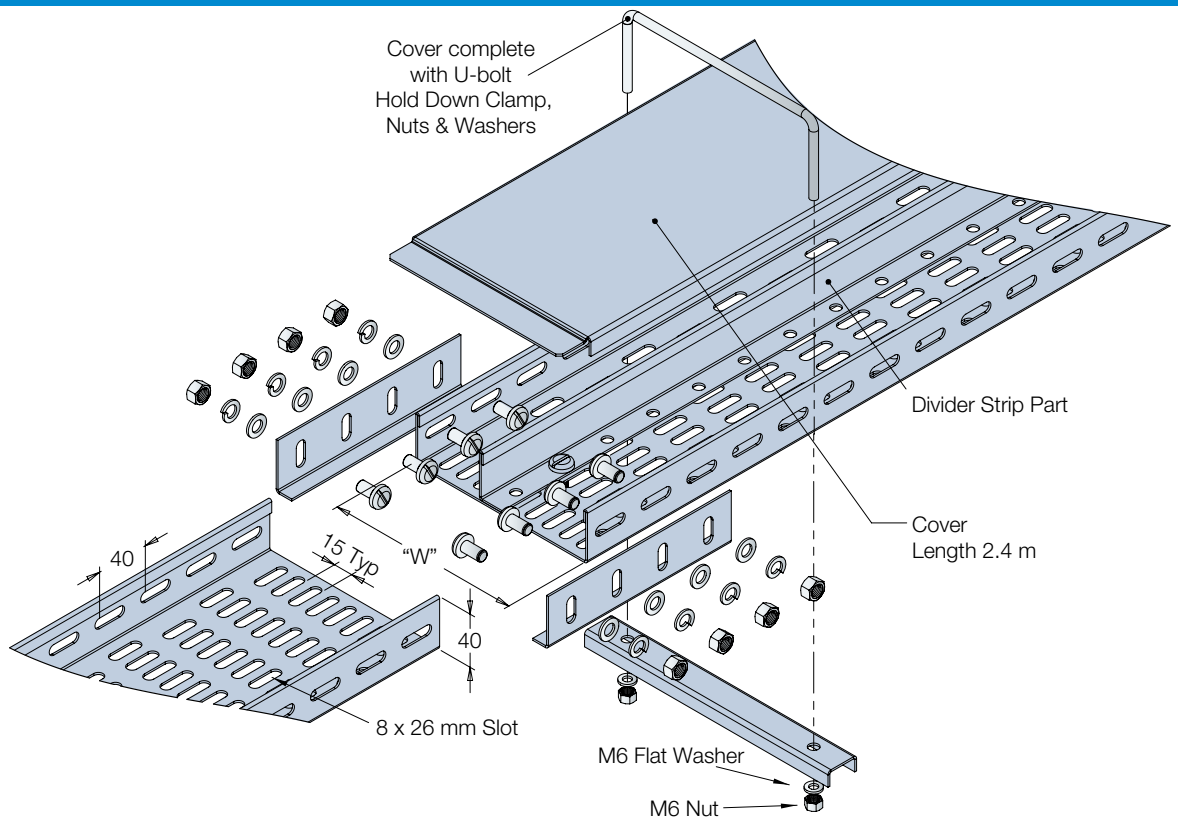
The finished product is constructed from 1.6 mm base material of which there are four options; ***Mild Steel*** with post production ***Hot Dip Galvanised*** surface treatment, ***Galvabond***, 316 Grade ***Stainless Steel*** and ***Aluminium***. All of which offer the following features:

- 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

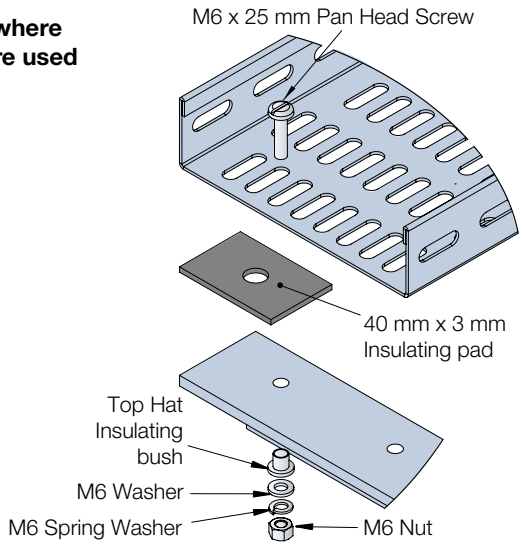
Custom sizes and painted finish available on request.

CT Heavy Duty Cable Tray

CT Cable Tray



Fixing and insulation where dissimilar materials are used



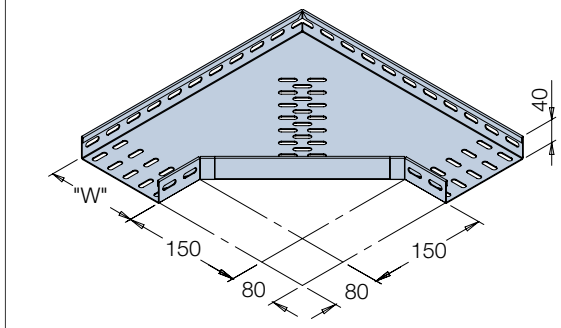
When Ordering

Range	Type	Wide	Std.Finish	Fastenings	Finish
CT	**T**	**7**	**G**	**K**	**PC-COL**
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.					

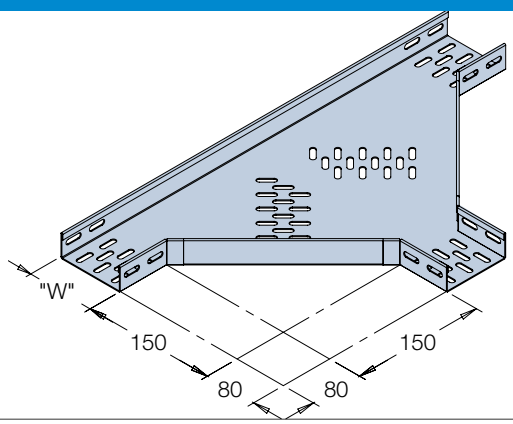
E.&O.E.

CT Heavy Duty Cable Tray Fittings

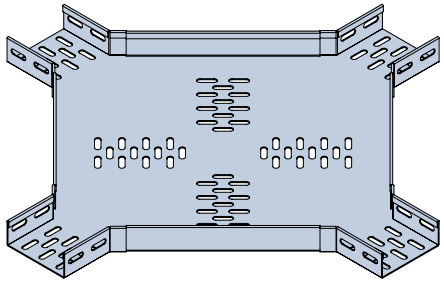
90° Bend



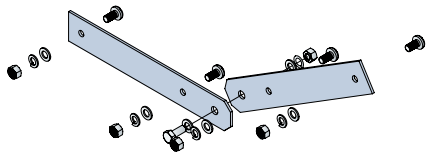
Equal Tee



Equal Cross

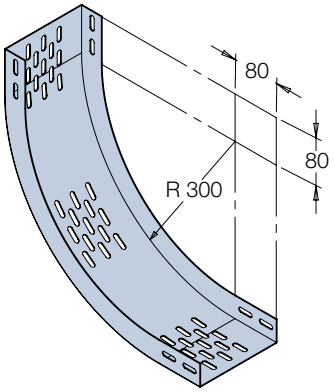


Vertical Hinged Splice Plate

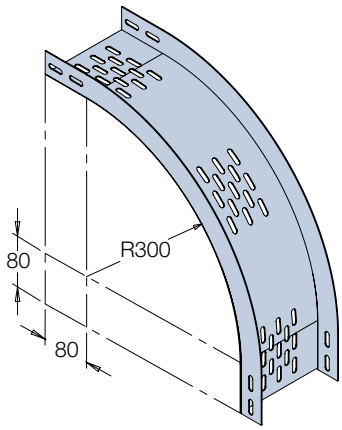


Fixings Provided

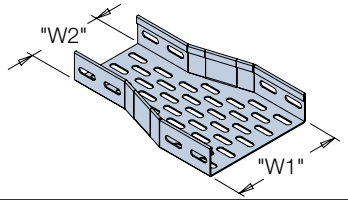
90° Internal Riser



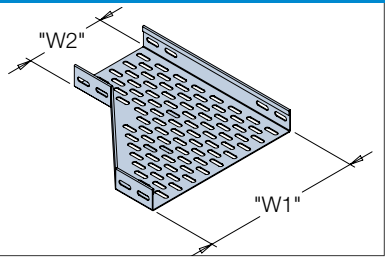
90° External Riser



Straight Reducer



Offset Reducer



When Ordering

Range	Type	Wide	Std.Finish	Fastenings	Finish
CT	**B**	**7**	**G**	**K**	**PC-COL**
CT = Heavy Duty Cable Tray	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)	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 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.

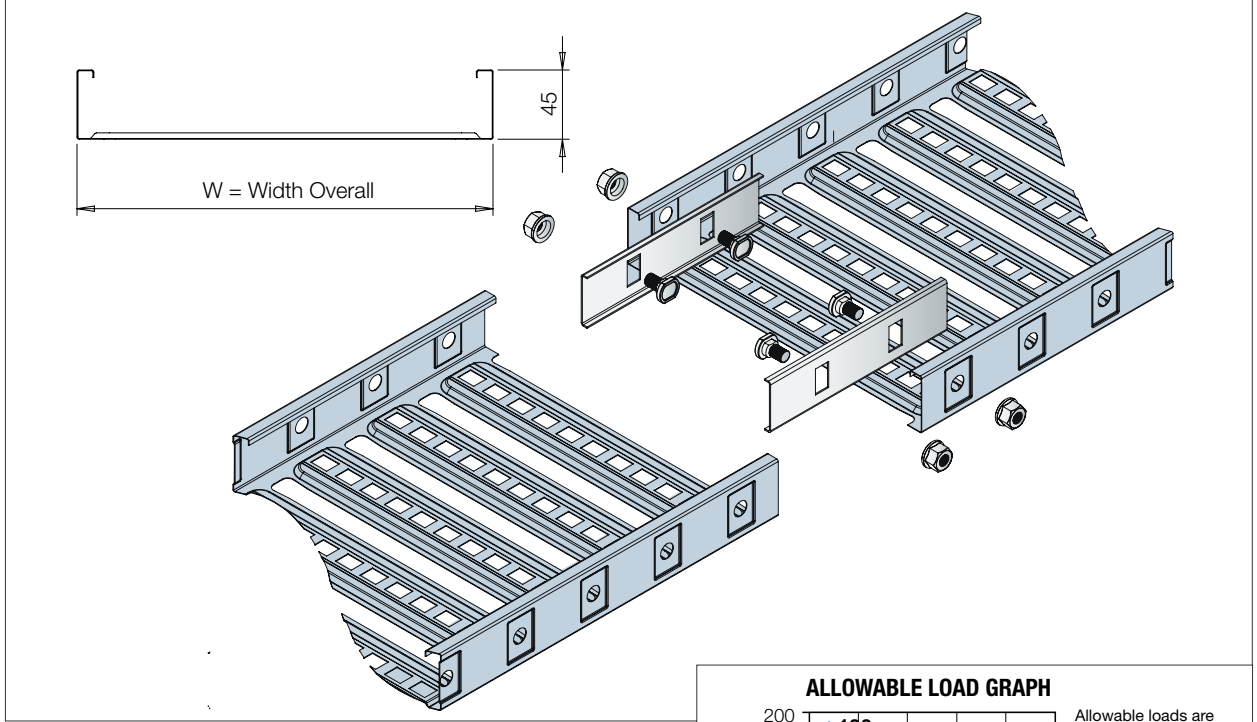
Kounis Group Standard Colour Range

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.

E.&O.E.

KT2 Ladder Tray Light Duty

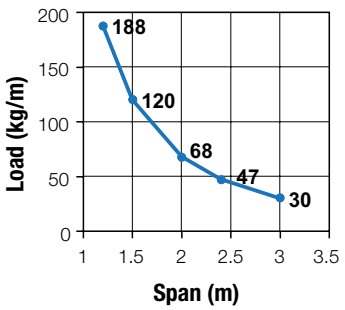
KT2 Ladder Tray Light Duty



Specification

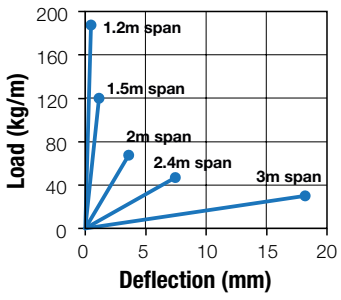
Class Designation:	Cable ladder tray Light Duty Type KT2
Material:	Steel sheet.
Finish:	Standard Galvabond other finishes to firm orders.
Side Depth:	45 mm high sided tray.
Stock Length:	3000 mm standard, joining together by a pair of bolt on splice plates supplied separately.
Stock Widths:	150 mm, 300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



Defelections shown apply to single spans. Defelections 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

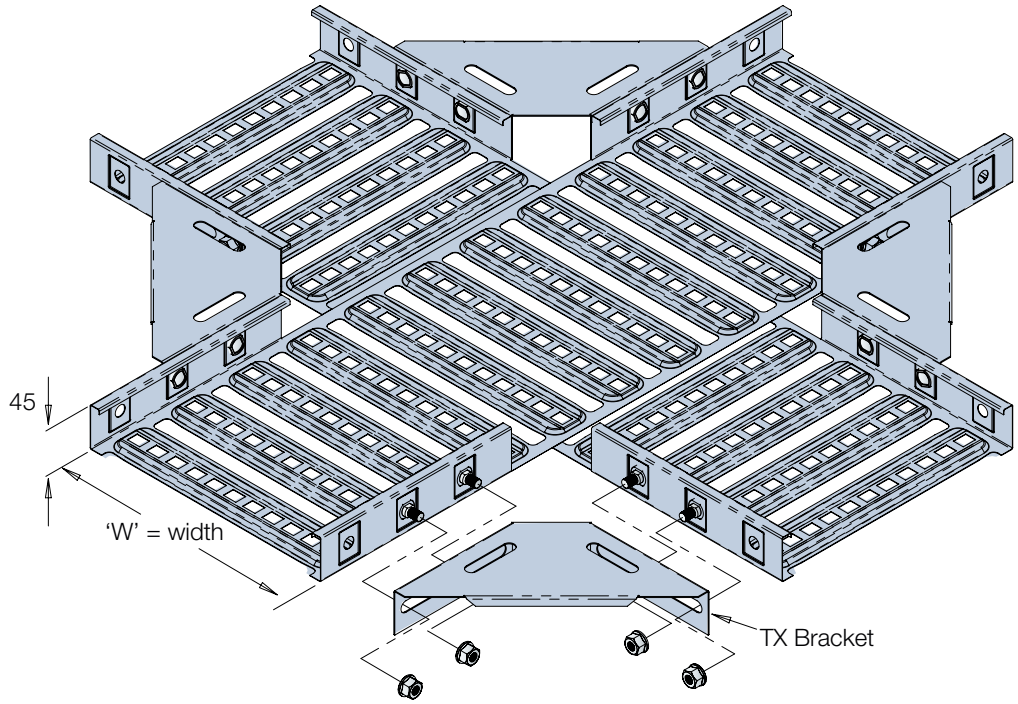
Range	Type	Wide	Std.Finish	Fastenings	Finish
KT	**2**	**15**	**G**	**K**	**PC-COL**
KT = Ladder Tray	2 = 45 mm High Side Light Duty	15 = 150 mm 30 = 300 mm 45 = 450 mm 60 = 600 mm	G = Galvanised H = Hot Dip Galvanised	K = includes all Splice Plates, Bolts and Nuts Standard Zinc Plate or Galvanised	PC-COL = 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.

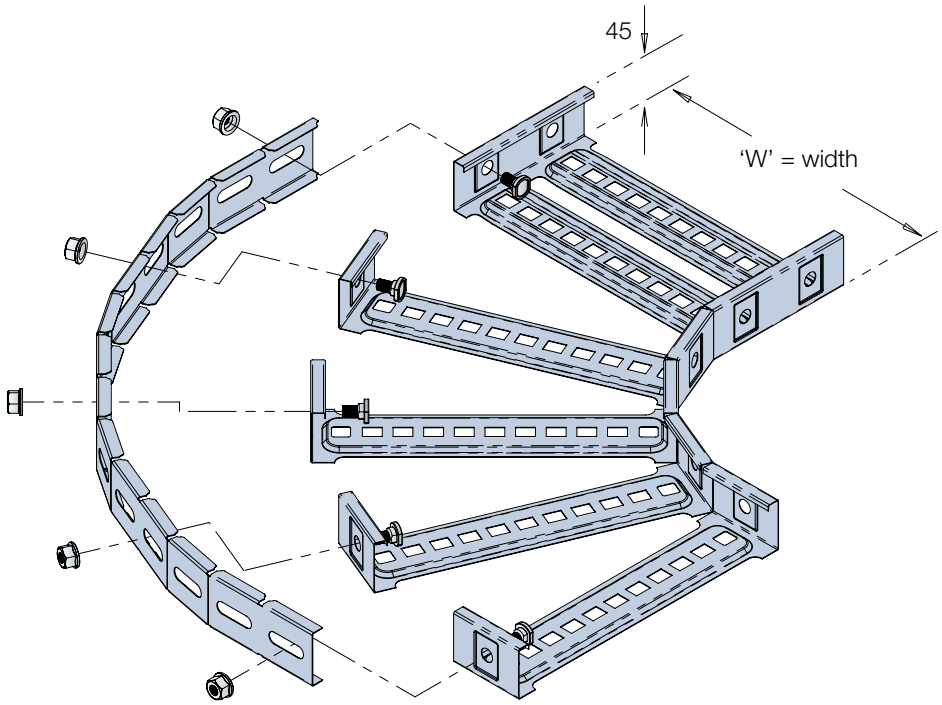
E.&O.E.

KT2 Ladder Tray Light Duty Assembly Instructions

Cross



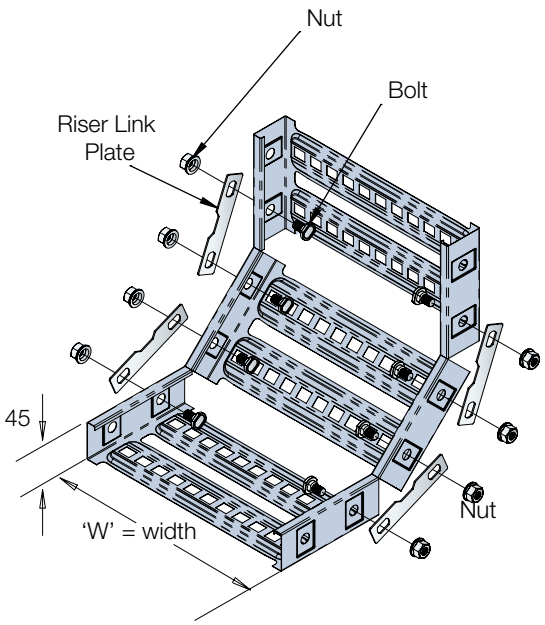
Bend



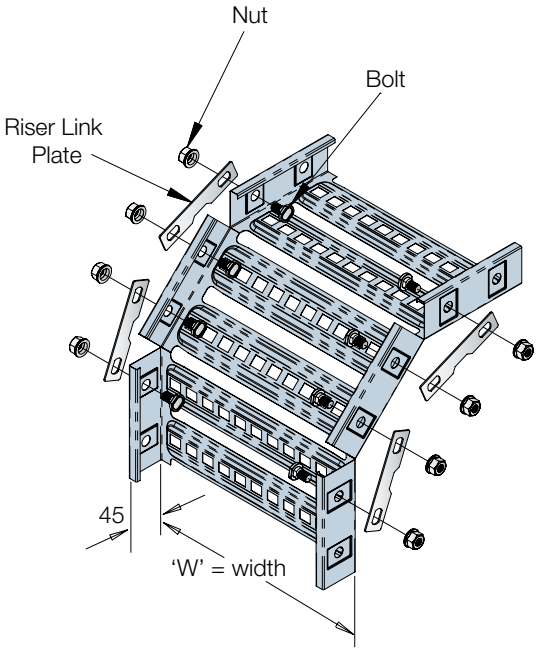
E.&O.E.

KT2 Ladder Tray Light Duty Assembly Instructions

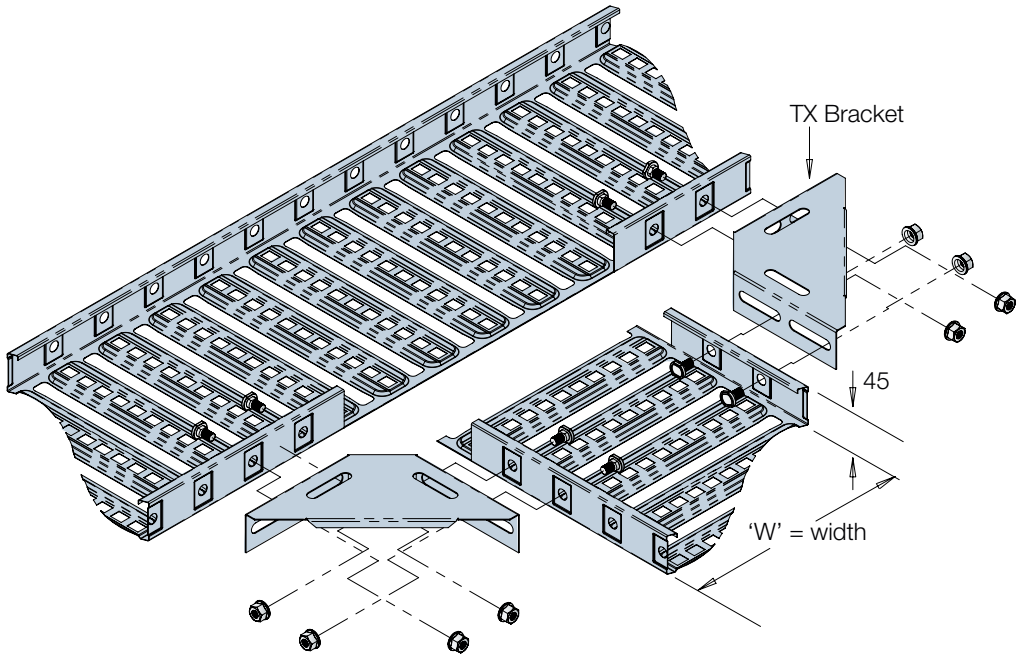
Internal Riser



External Riser



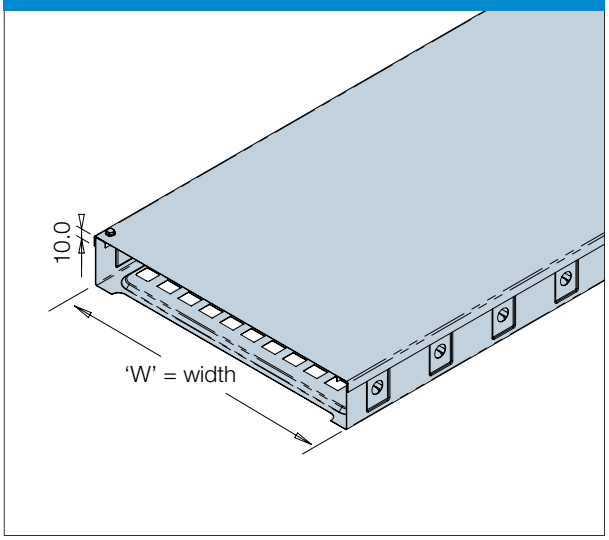
Tee



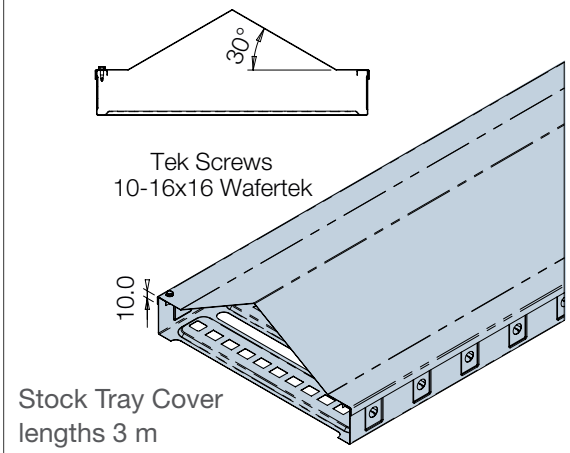
E.&O.E.

KT2 Ladder Tray Covers and Trapeze Supports

Flat Cover for KT2 Tray



Peak Cover for KT2 Tray



Stock Tray Cover lengths 3 m

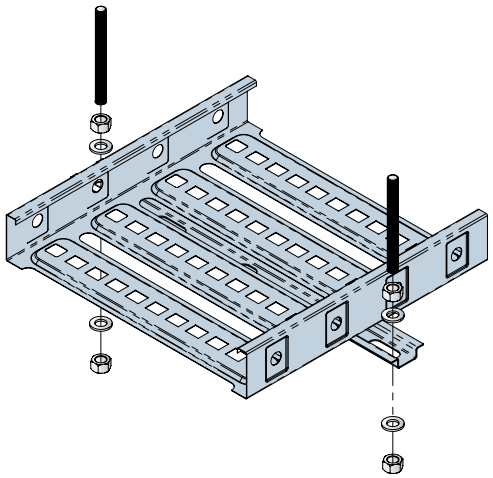
See separate details for KT3 and KT5

When Ordering

Range	Type	Wide	Std.Finish	Fastening	Finish
KT2	**FC**	**15**	**G**		**PC-COL**
KT2 = KT2 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

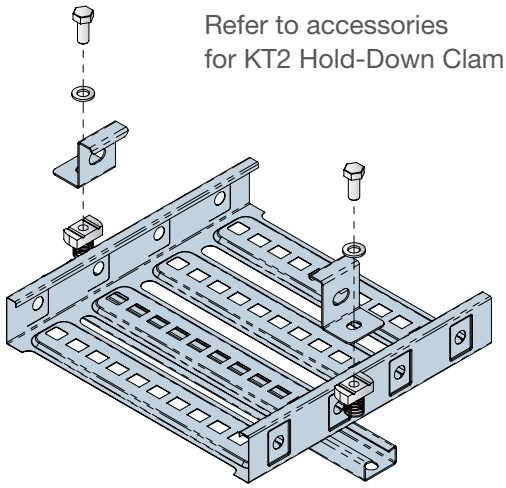
ORDERING EXAMPLE SHOWN: Ladder Tray KT2 Flat Cover 150 mm wide Galvabond Painted finish
Painted Finish to specification colour.

Light Duty Trapeze Support



Heavy Duty Trapeze Support

Refer to accessories for KT2 Hold-Down Clamps



When Ordering

Range	Type	Wide	Finish
K	**LTS**	**15**	**G**
K = Ladder Tray Brackets NOTE: Recommended for KT2 Ladder Tray	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

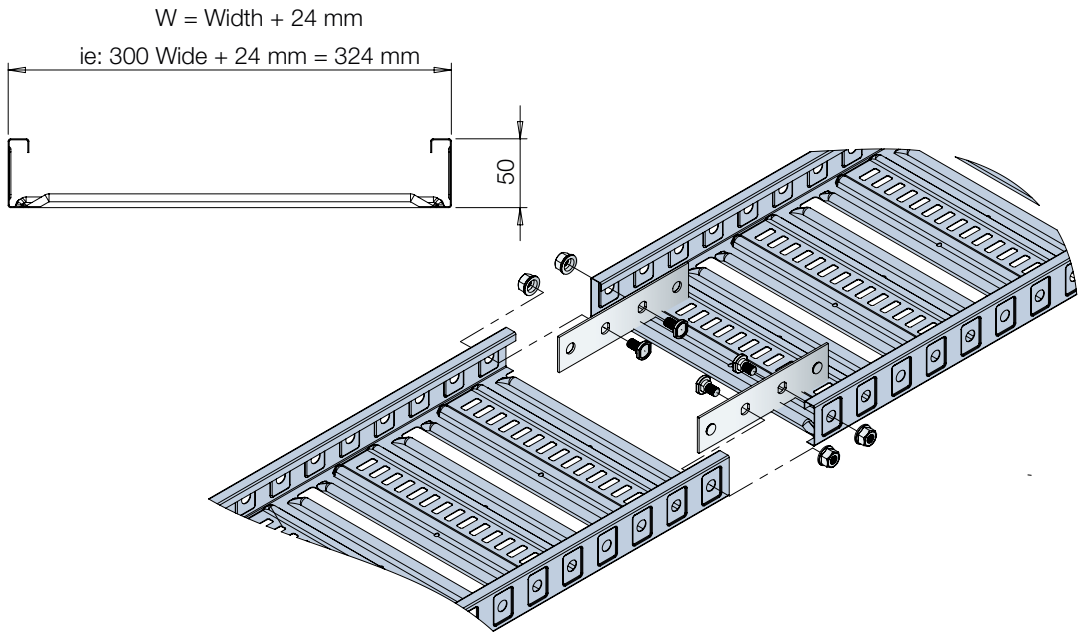
ORDERING EXAMPLE SHOWN: Ladder Tray Light Duty Support 150 mm wide Galvabond finish.

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.

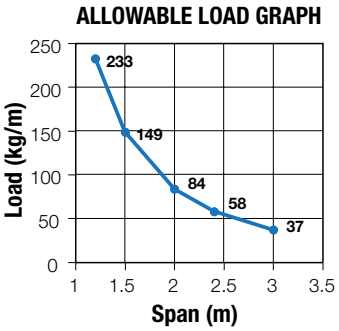
KT3 Ladder Tray Medium Duty

KT3 Ladder Tray Medium Duty

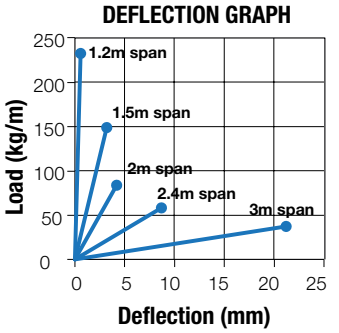


Specification

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



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



Defelections shown apply to single spans. Defelections 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
KT	**3**	**15**	**G**	**K**	**PC-COL**
KT = Ladder Tray	3 = 50 mm High Side Medium Duty	15 = 150 mm 30 = 300 mm 45 = 450 mm 60 = 600 mm	G = Galvanised H = Hot Dip Galvanised	K = includes all Splice Plates, Bolts and Nuts Standard Zinc Plate or Galvanised	PC-COL = paint Painted finish to Kounis standard colour range

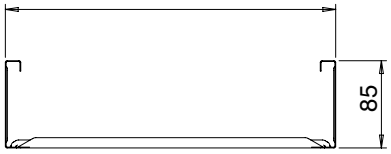
ORDERING EXAMPLE SHOWN: Ladder Tray KT3 Medium Duty 50 mm high 150 mm wide Galvabond c/w Splice plates, Bolts and Nuts
Painted Finish to specification colour.

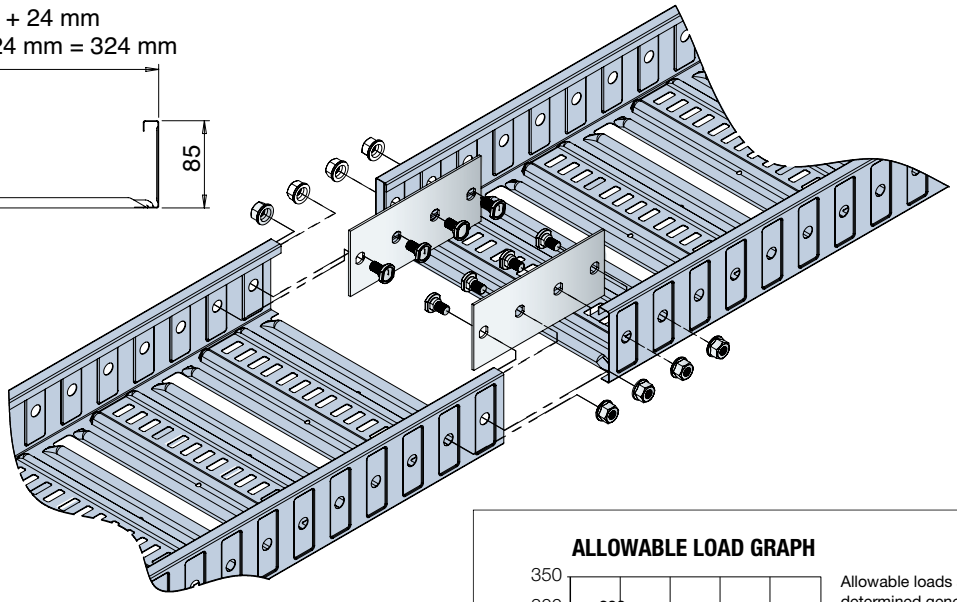
E.&O.E.

KT5 Ladder Tray Heavy Duty

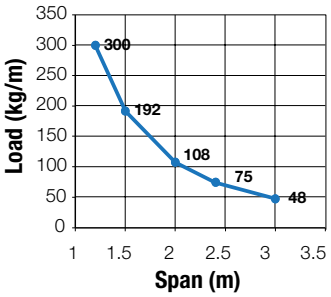
KT5 Ladder Tray Heavy Duty

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



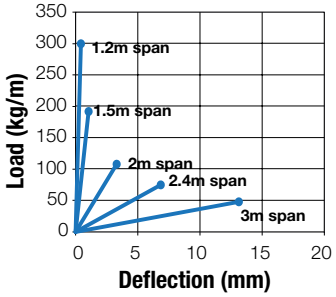


ALLOWABLE LOAD GRAPH



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



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

Specification

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

When Ordering

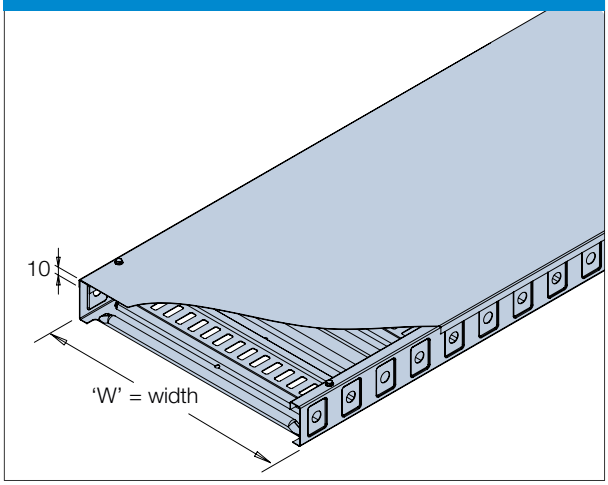
Range	Type	Wide	Std. Finish	Fastenings	Finish
KT	**5**	**15**	**G**	**K**	**PC-COL**
KT = Ladder Tray	5 = 85 mm High Side Heavy Duty	15 = 150 mm 30 = 300 mm 45 = 450 mm 60 = 600 mm	G = Galvabond H = Hot Dip Galvanised	K = Includes all Splice Plates, Bolts and nuts Standard Zinc Plate or Galvanised	PC-COL = 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.

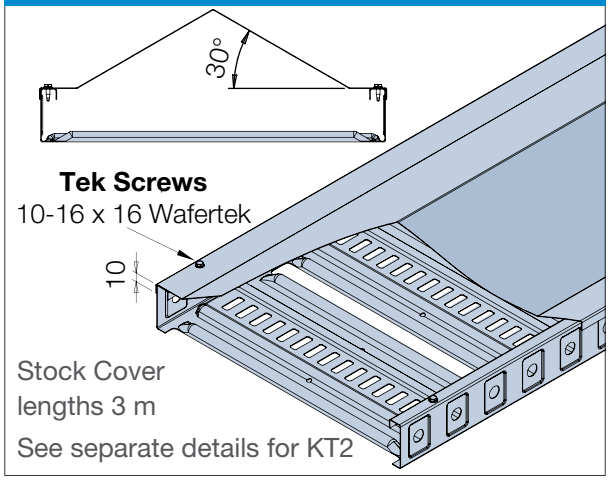
E.&O.E.

KT3 and KT5 Ladder Tray Covers and Trapeze Supports

Flat Cover for KT3 & KT5 Tray



Peak Cover for KT3 & KT5 Tray

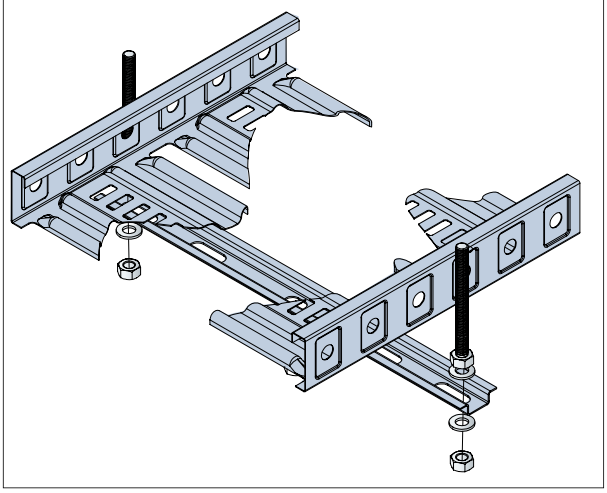


When Ordering

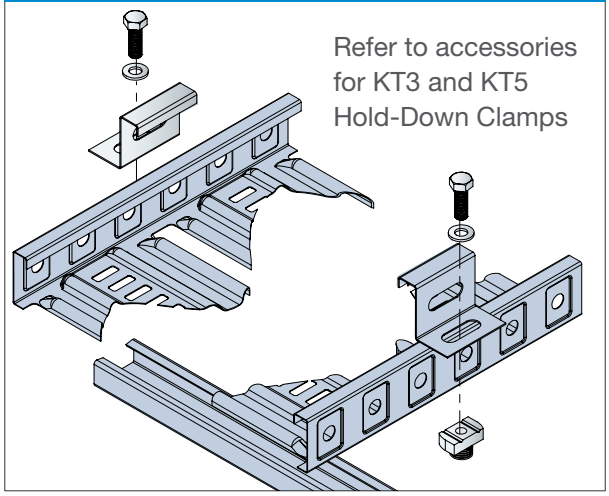
Range	Type	Wide	Std.Finish	Fastening	Finish
KT	**FC**	**15**	**G**		**PC-COL**
KT = Ladder Tray	FC = Flat Cover PC = Peak Cover	15 = 150 mm 30 = 300 mm 45 = 450 mm 60 = 600 mm	G = Galvabond Thk.0.75 mm H = Hot Dip Galvanised Thk. 1.0 mm 150-300W Thk. 1.2 mm 450-600W	Tek Screw fixings can be supplied 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



Refer to accessories for KT3 and KT5 Hold-Down Clamps

When Ordering

Range	Type	Wide	Finish
K	**LTS**	**15**	**G**
K = Ladder Tray Brackets NOTE: Recommended both KT3 and KT5	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

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.

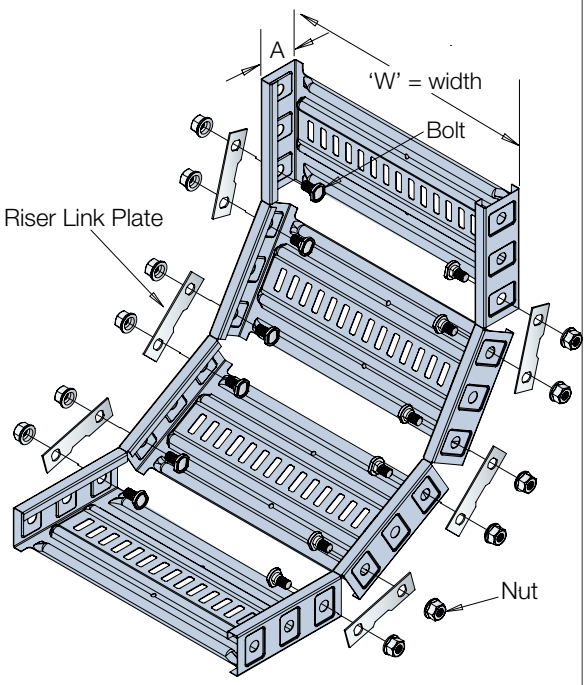
QTY. OF BENDS FROM 3 m LENGTH RADIUS PLATE	
WIDTH	**BEND 90°**
150 mm	4 per Length
300 mm	3 per Length
450 mm	2 per Length
600 mm	2 per Length

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

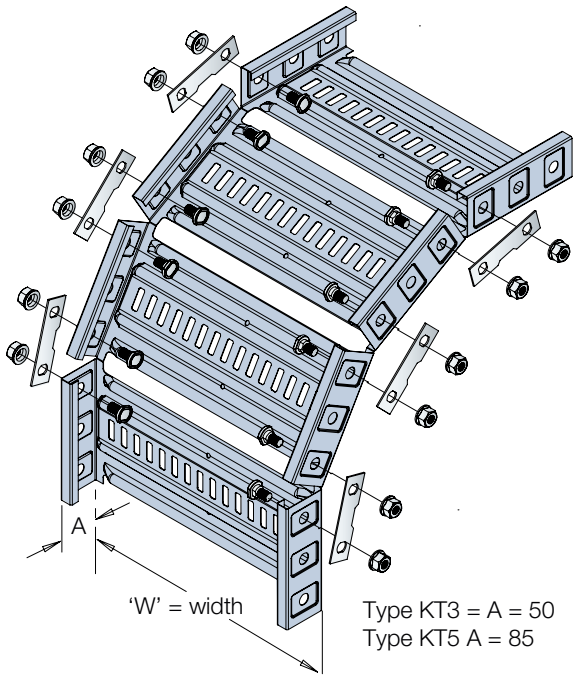
E.&O.E.

Ladder Tray Assembly Instructions

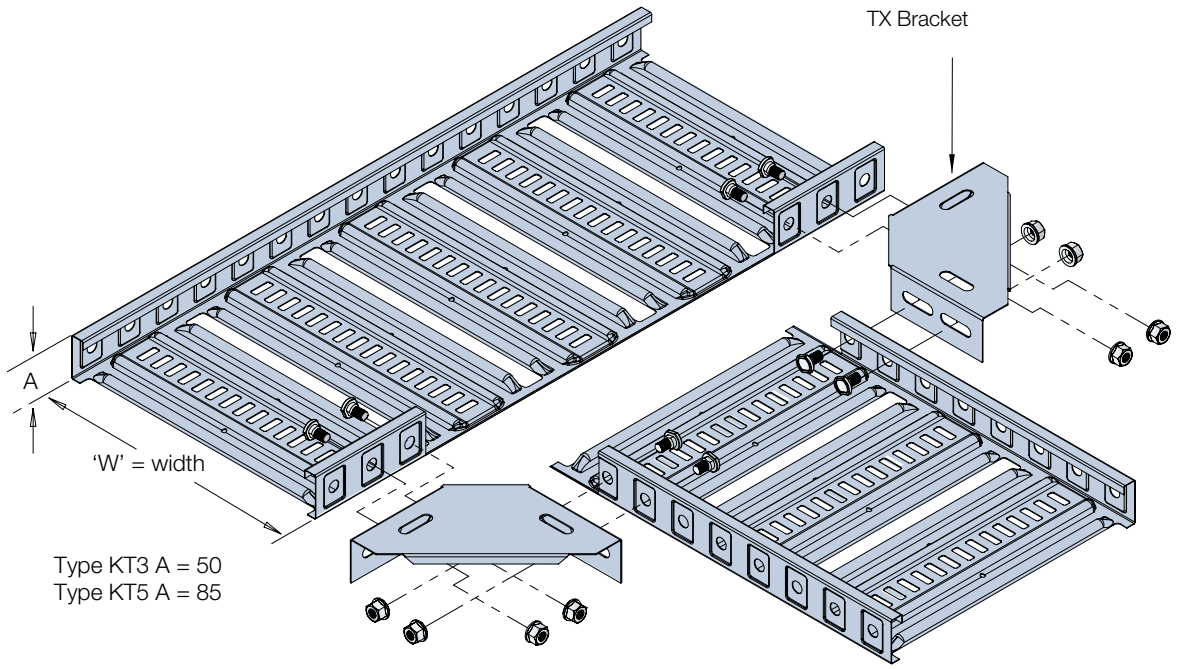
Internal Riser



External Riser



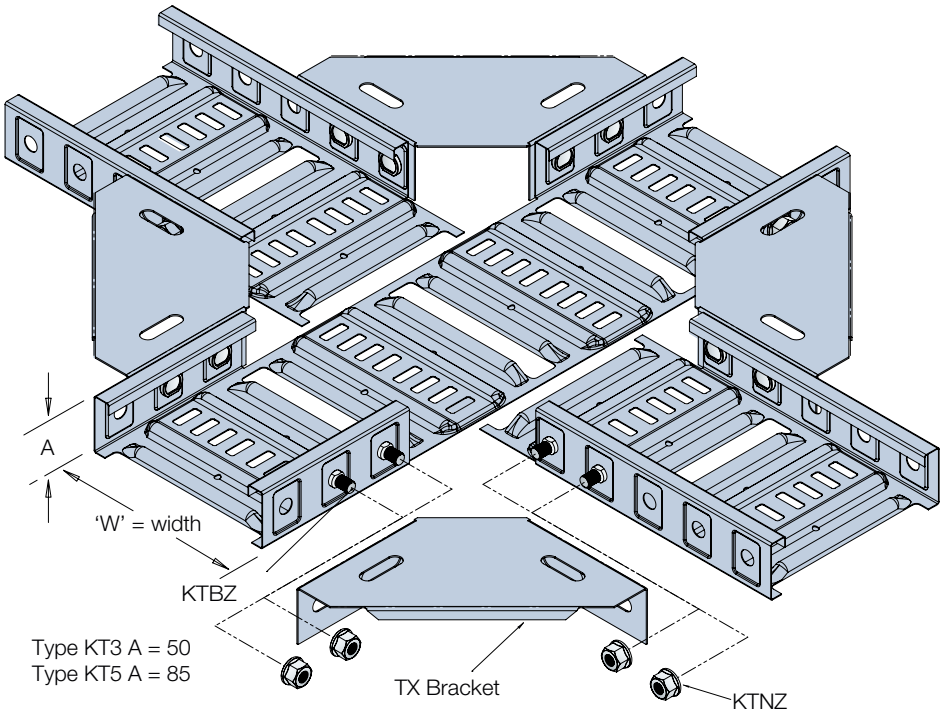
Tee



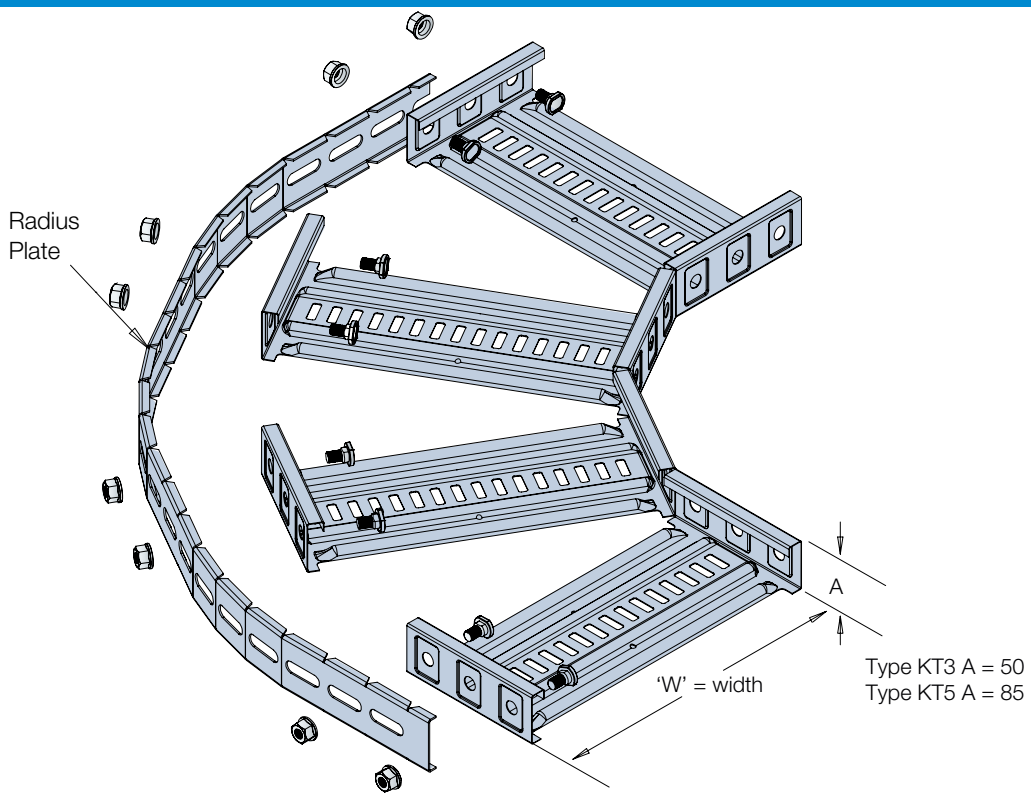
E.&O.E.

Ladder Tray Assembly Instructions

Cross



Bend



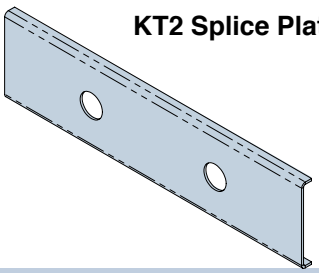
NOTE: KT3 and KT5 plates and brackets are not interchangeable.

E.&O.E.

Ladder Tray Accessories

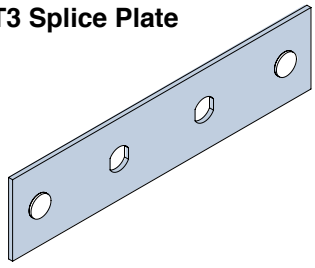
Ladder Tray Accessories

KT2 Splice Plate



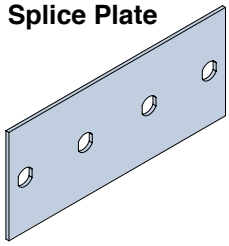
CODE: KT2SP

KT3 Splice Plate



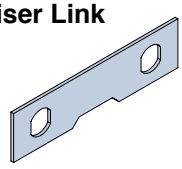
CODE: KT3SP

KT5 Splice Plate



CODE: KT5SP

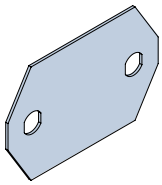
KT2 Riser Link
KT3 Riser Link



CODE: KT2LP

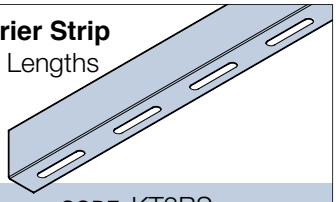
CODE: KT3LP

KT5 Riser Link



CODE: KT5LP

Barrier Strip
3 m Lengths

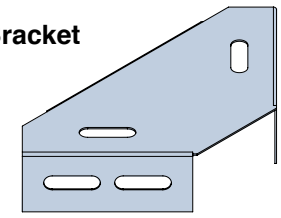


CODE: KT2BS

CODE: KT3BS

CODE: KT5BS

TX Bracket

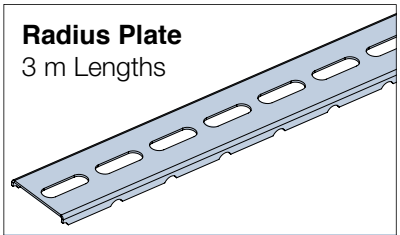


CODE: KT2TX

CODE: KT3TX

CODE: KT5TX

Radius Plate
3 m Lengths

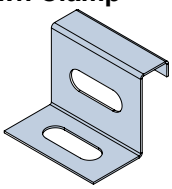


CODE: KT2RP

CODE: KT3RP

CODE: KT5RP

Hold Down Clamp



CODE: KT2HDC

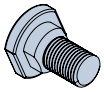
CODE: KT3HDC

CODE: KT5HDC

Tray Whizz Nut

CODE: KTN

Tray Bolt



CODE: KTB

When Ordering

Range	Type	Accessories	Std.Finish	Fastenings	Finish
KT KT = Ladder Tray	**2** 2 = 45 mm High Side Light Duty 3 = 50 mm High Side Medium Duty 5 = 85 mm High Side Heavy Duty	**SP** 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	**G** G = Galvabond H = Hot Dip Galvanised Z = Zinc Plated	NOTE: Tray Bolt and Tray Nuts are supplied separately Standard Zinc Plate or Galvanised	**PC-COL** 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.

E.&O.E.

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:

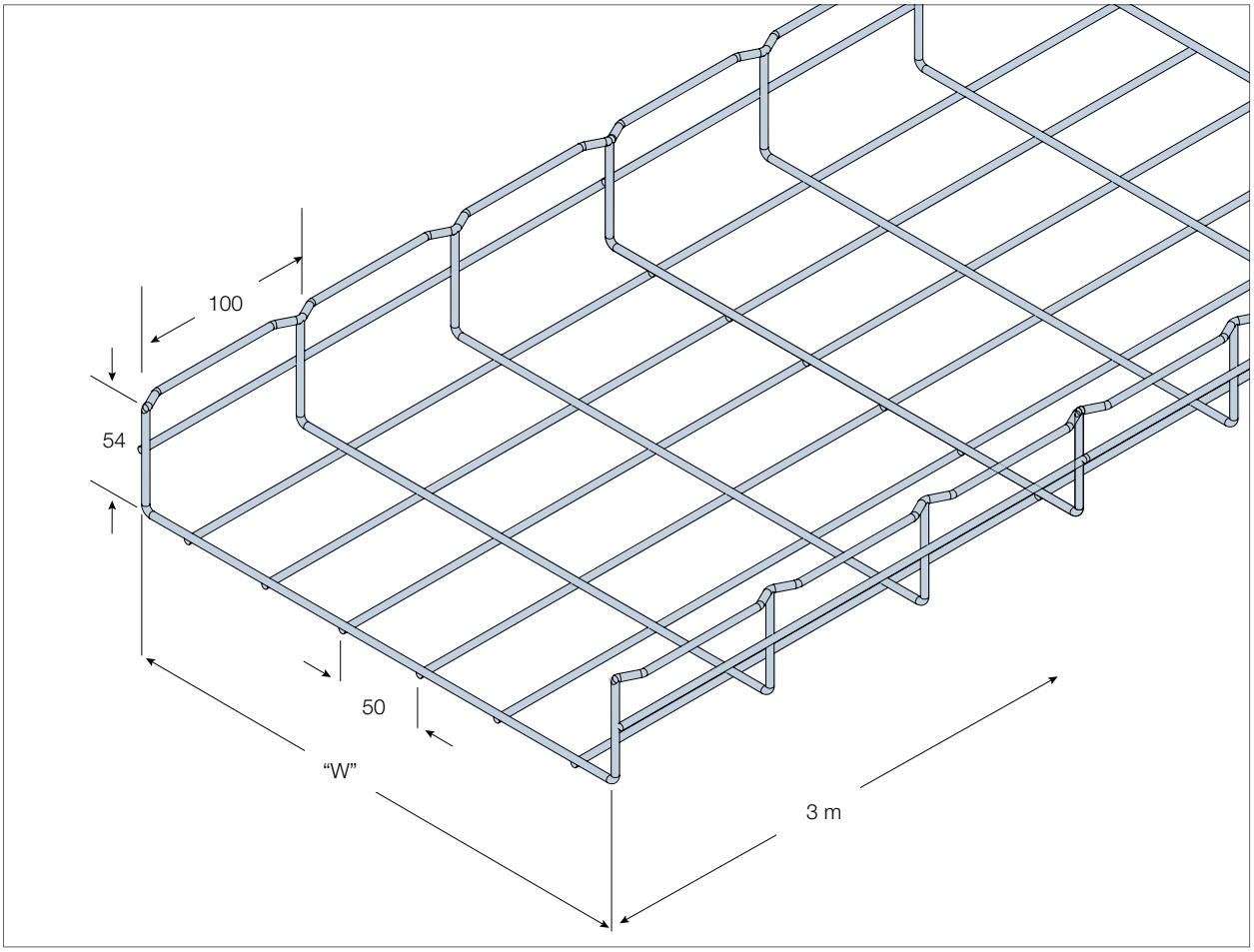
- 3 m length
- Site fabricated fittings for all required direction, junction or size changes
- Mesh tie off spacing at 50 mm W x 100 mm L making cable tracing and identification easy whilst enabling cable entry exit at any point
- Indented top lip wire making an all smooth edge system to ensure no damage 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

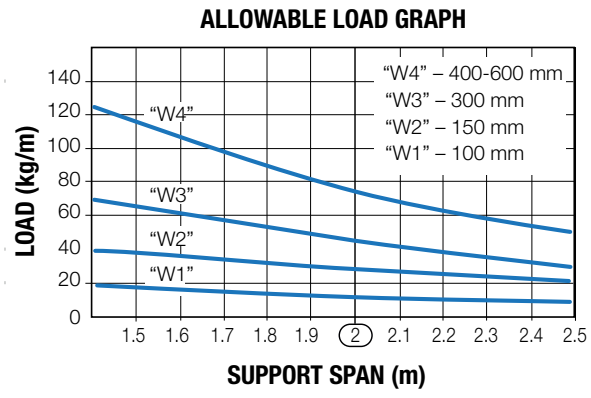


When Ordering

Range	Type	Wide	Finish
KM	**54**	**10**	**Z**
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

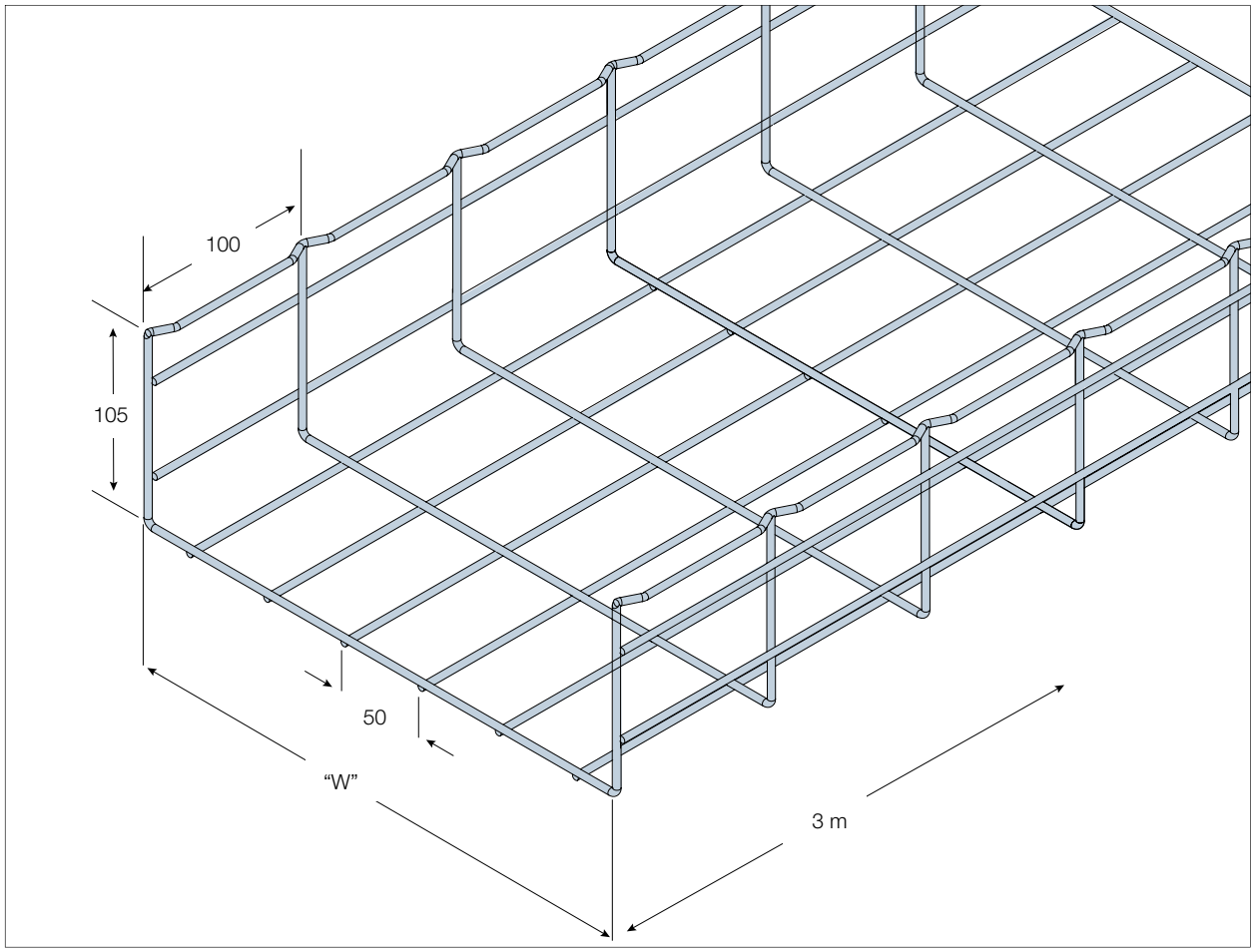


KM 54 Tray

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

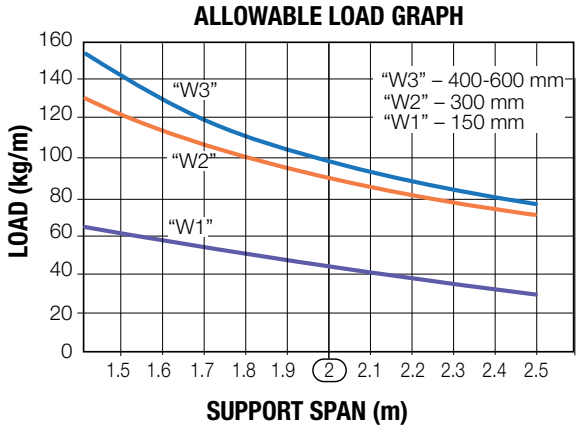


When Ordering

Range	Type	Wide	Finish
KM	**105**	**10**	**Z**
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



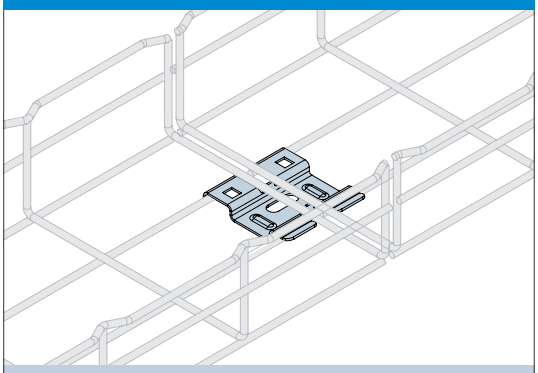
KM 105 Tray

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.

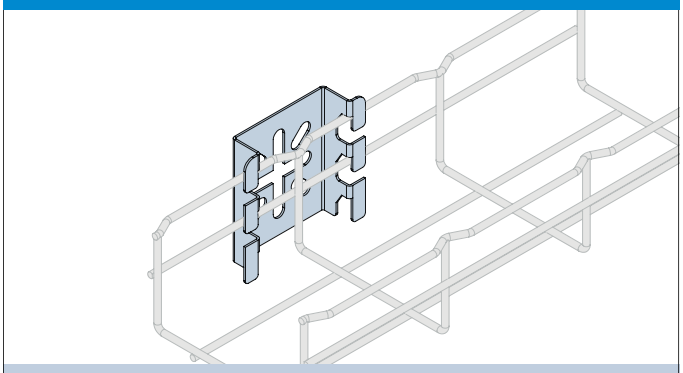
Cable Mesh Tray Accessories & Connectors

Base Connector



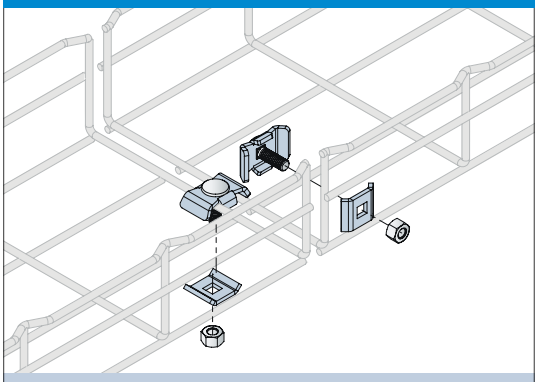
CODE: KML03

Wall Bracket / Box Mounting



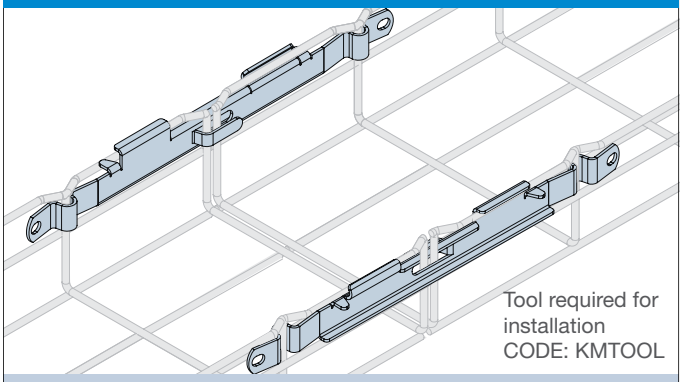
CODE: KMA06

Connector & Bend Assembly



CODE: KML06

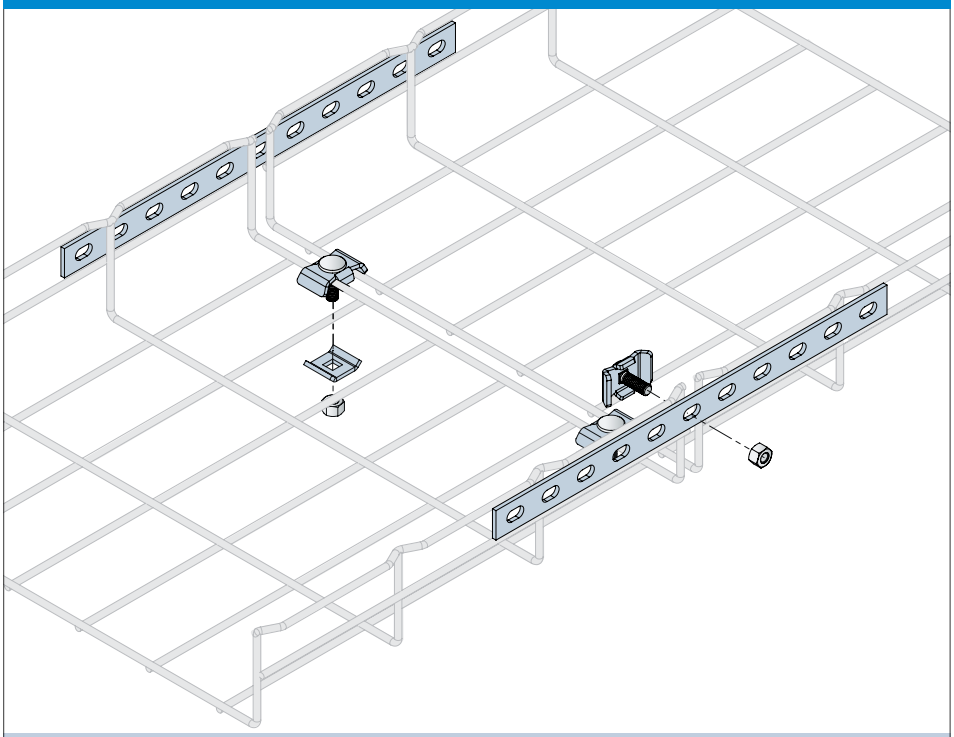
Tab Loc Connector



Tool required for installation
CODE: KMTOOL

CODE: KML01A

Splice Bar Joiner



CODE: KML10

Available Finish	
Suffix	**Description**
H	Hot Dip Galv
Z	Zinc Plated

When Ordering add suffix to end of product code

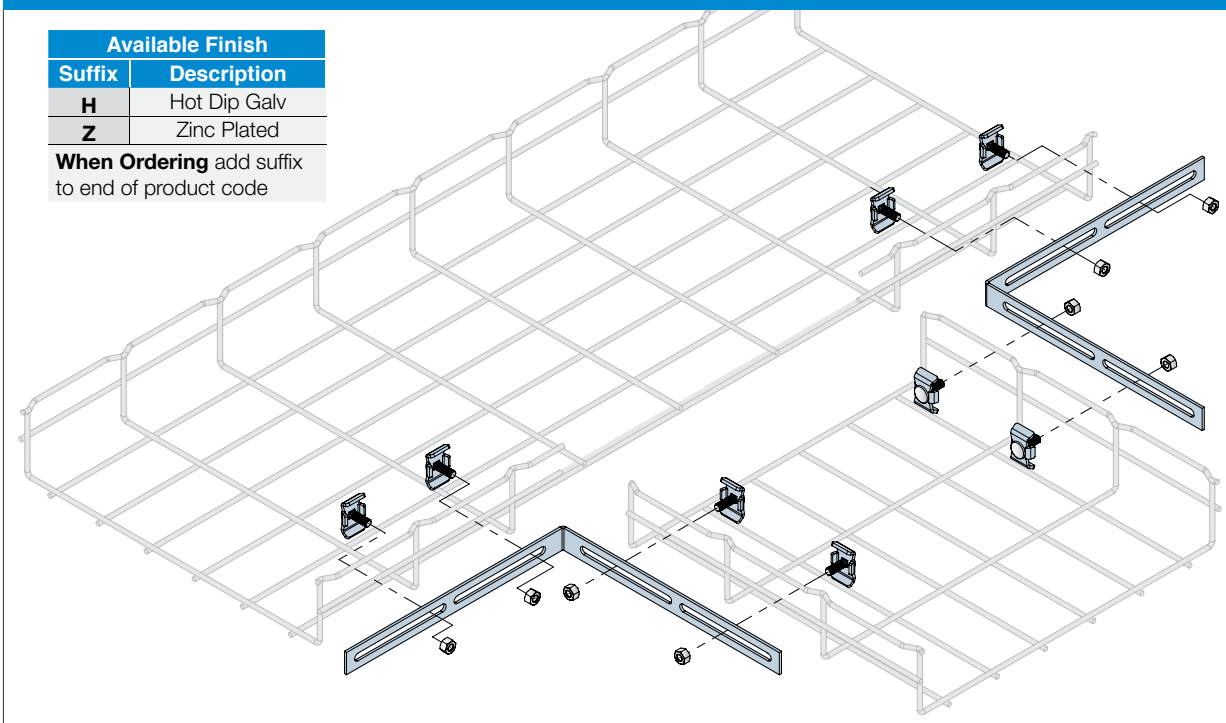
E.&O.E.

Cable Mesh Tray Accessories & Connectors

Tee Bar Joiner

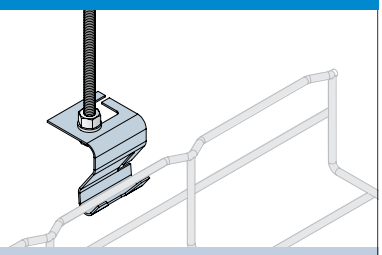
Available Finish	
Suffix	**Description**
H	Hot Dip Galv
Z	Zinc Plated

When Ordering add suffix to end of product code



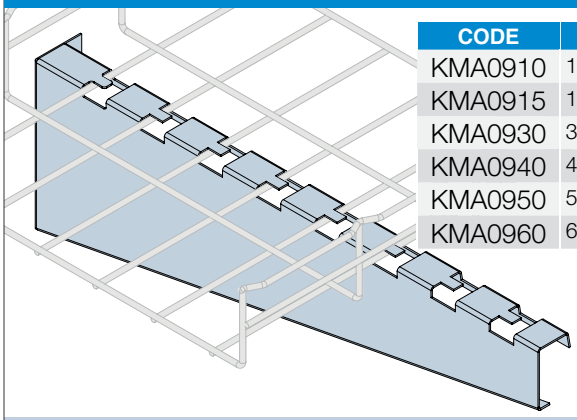
CODE: KML05A

Overhead Hanger Clip



CODE: KMA19

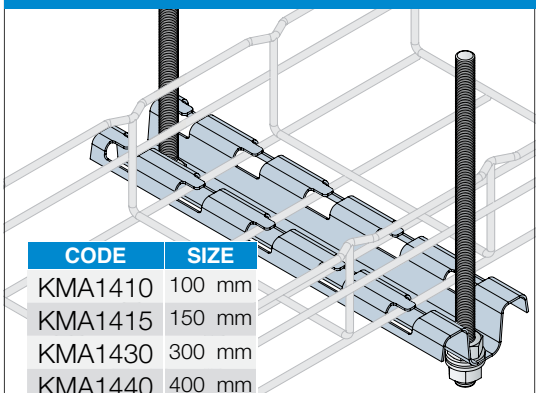
Slotted Wall Bracket 100-600 mm Wide



CODE	SIZE
KMA0910	100 mm
KMA0915	150 mm
KMA0930	300 mm
KMA0940	400 mm
KMA0950	500 mm
KMA0960	600 mm

CODE: KMA09

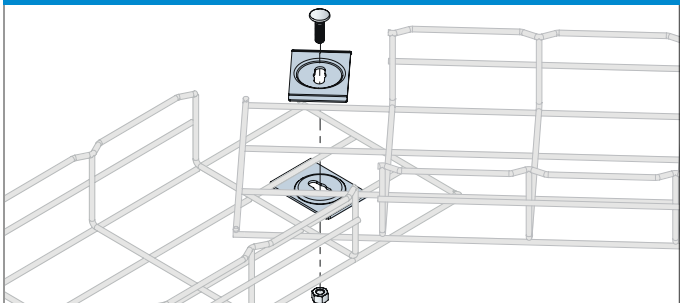
Trapeze Bracket 100-600 mm Wide



CODE	SIZE
KMA1410	100 mm
KMA1415	150 mm
KMA1430	300 mm
KMA1440	400 mm
KMA1450	500 mm
KMA1460	600 mm

CODE: KMA14

Horizontal Adjustment Hold Down Plate

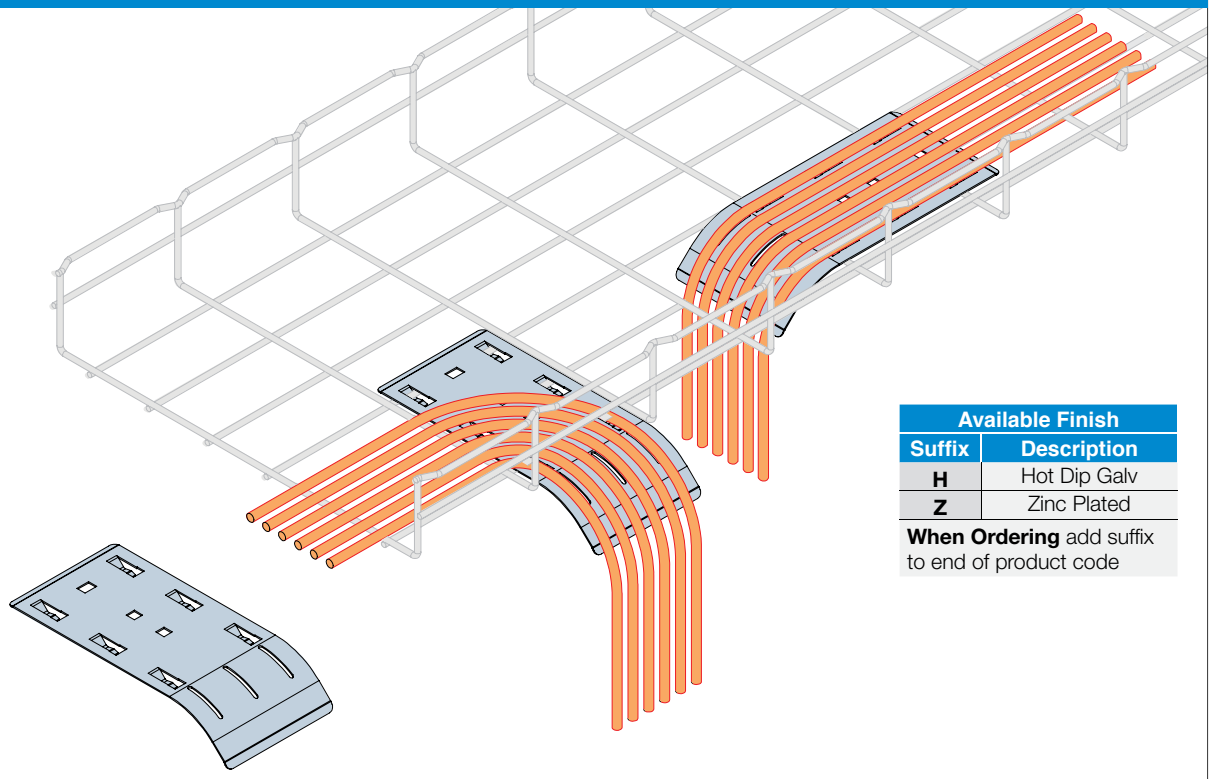


CODE: KMLDA

E.&O.E.

Cable Mesh Tray Accessories & Connectors

Cable Drop Out – Metal Or Plastic

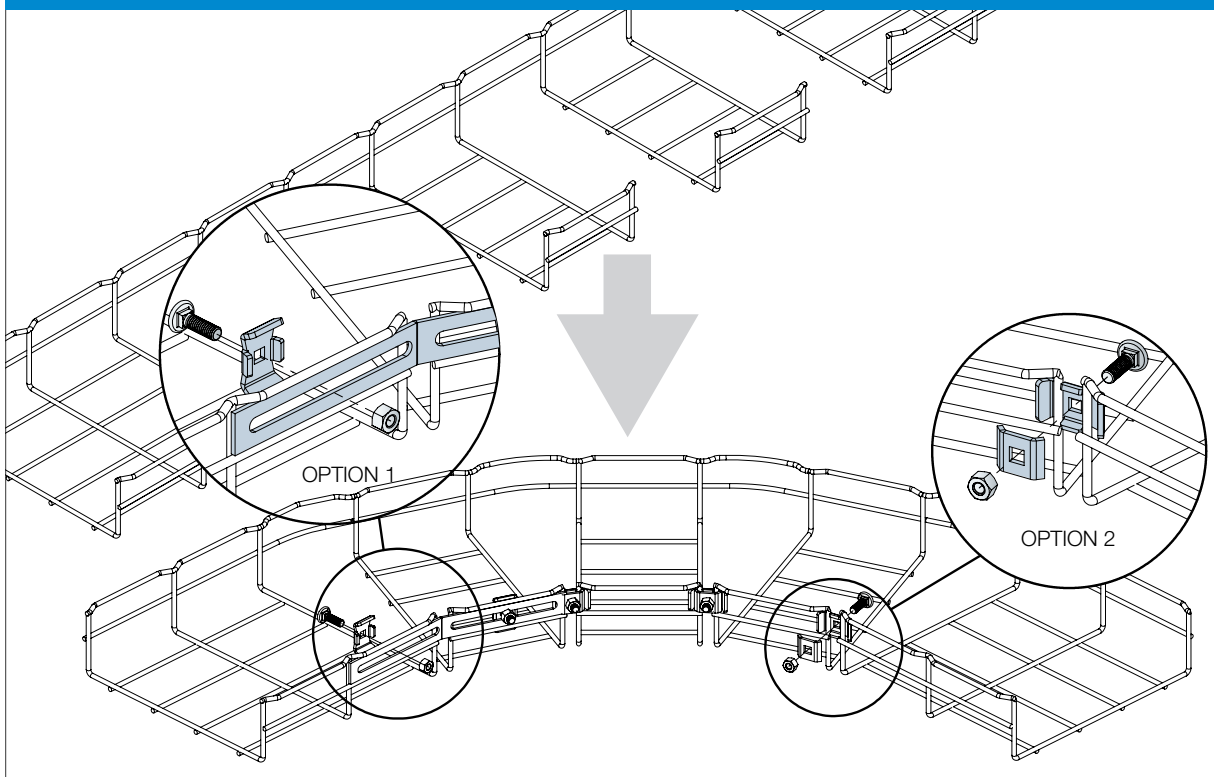


Available Finish	
Suffix	**Description**
H	Hot Dip Galv
Z	Zinc Plated

When Ordering add suffix to end of product code

CODE METAL: KMDXBZ CODE PLASTIC: KMDXBA

90° Long Radius Bend



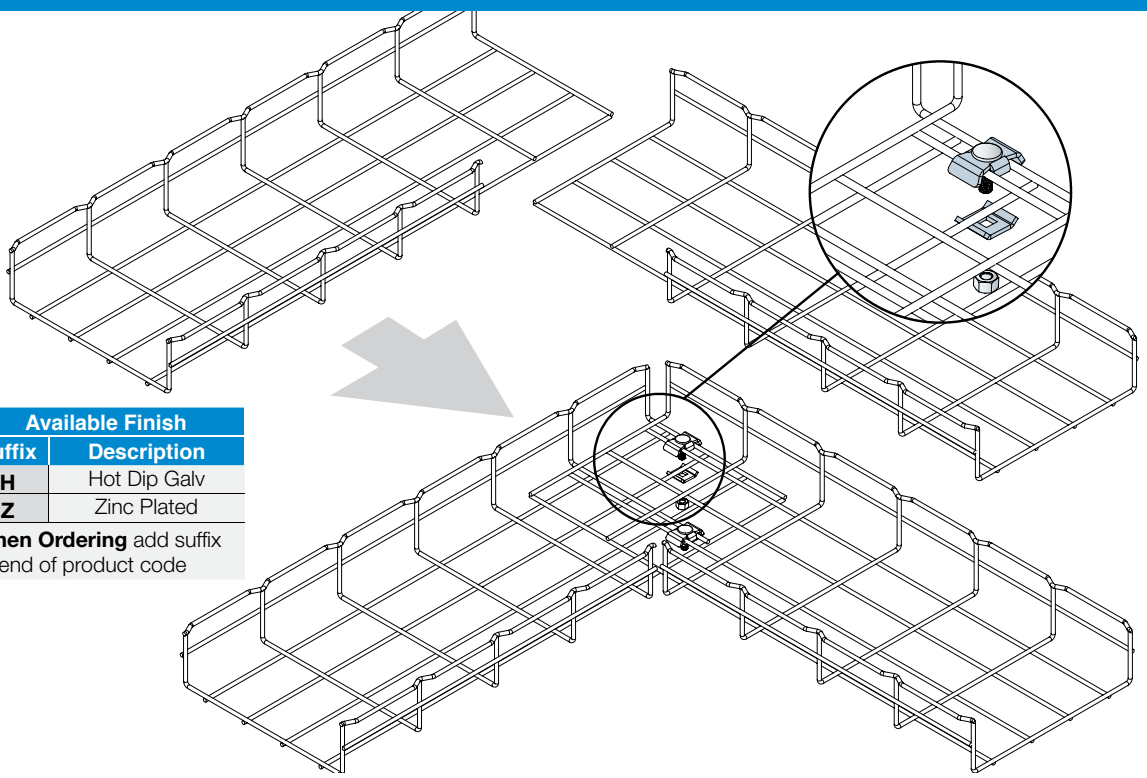
CODE: KMLO5A

CODE: KML06

E.&O.E.

Cable Mesh Tray Assembly Instruction

90° Short Radius Bend

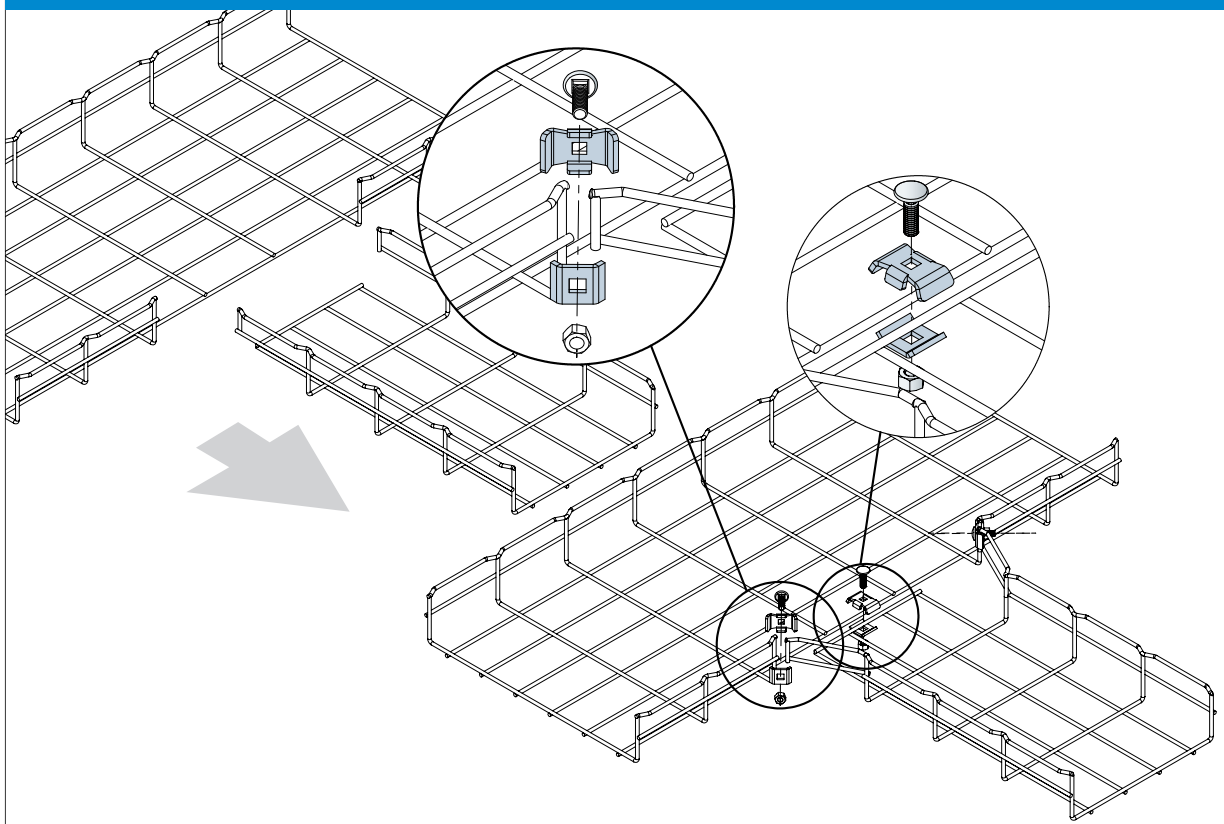


Available Finish	
Suffix	**Description**
H	Hot Dip Galv
Z	Zinc Plated

When Ordering add suffix to end of product code

CODE: KML06

Tee

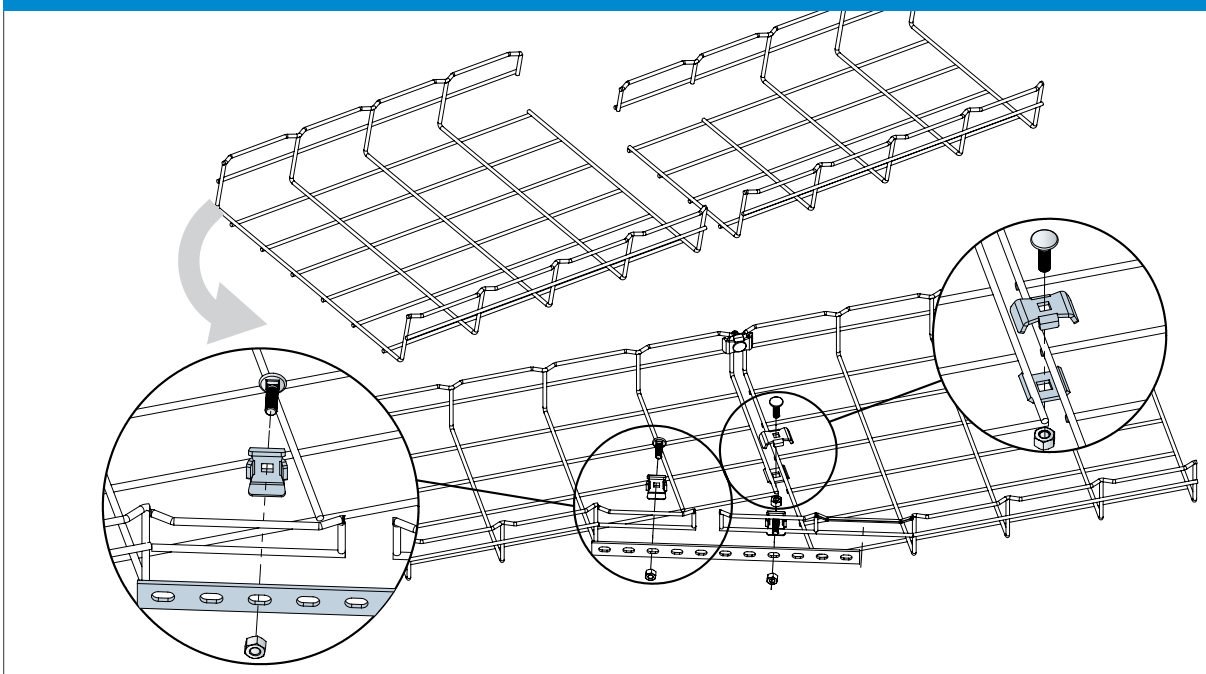


CODE: KML06

E.&O.E.

Cable Mesh Tray Assembly Instruction

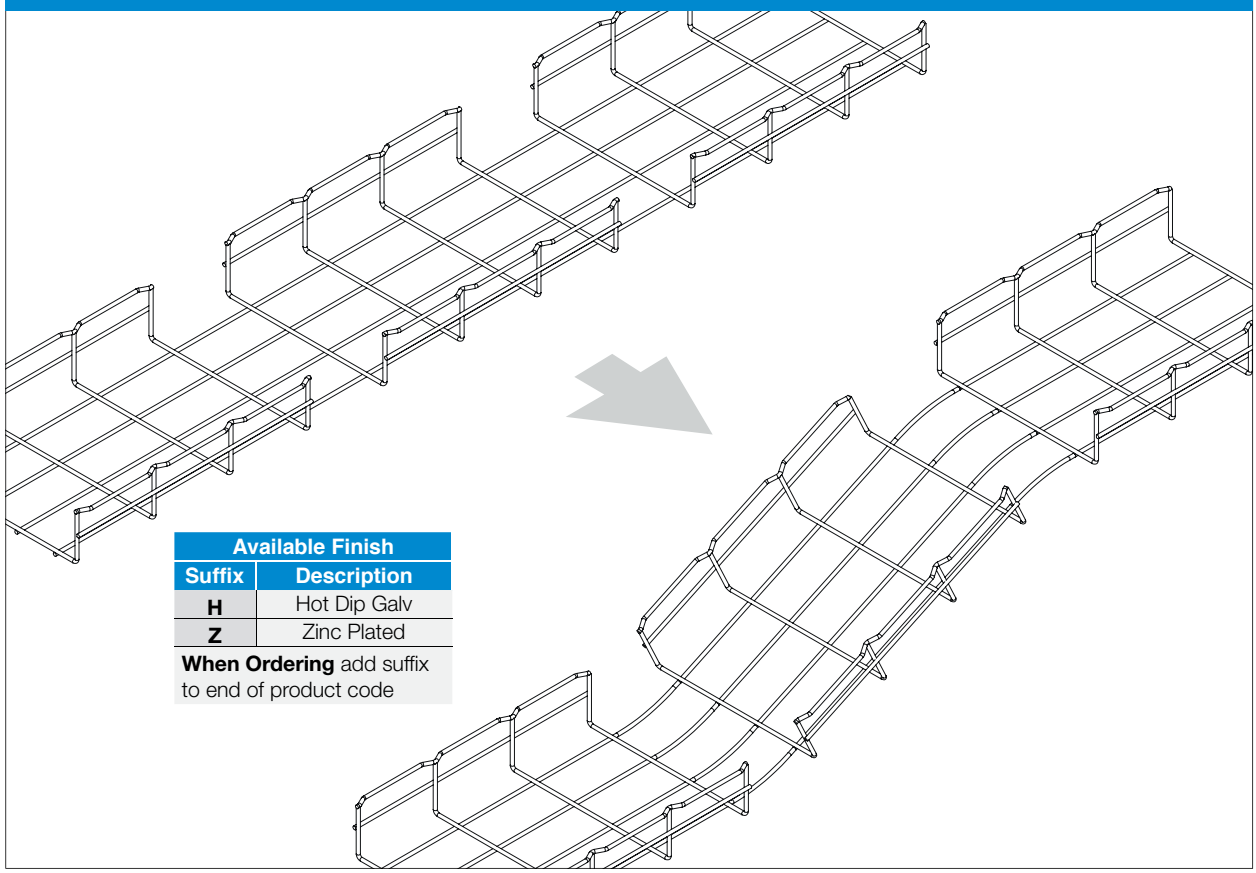
Reducer



CODE: KML10

CODE: KML06

Vertical Inside & Outside Bend



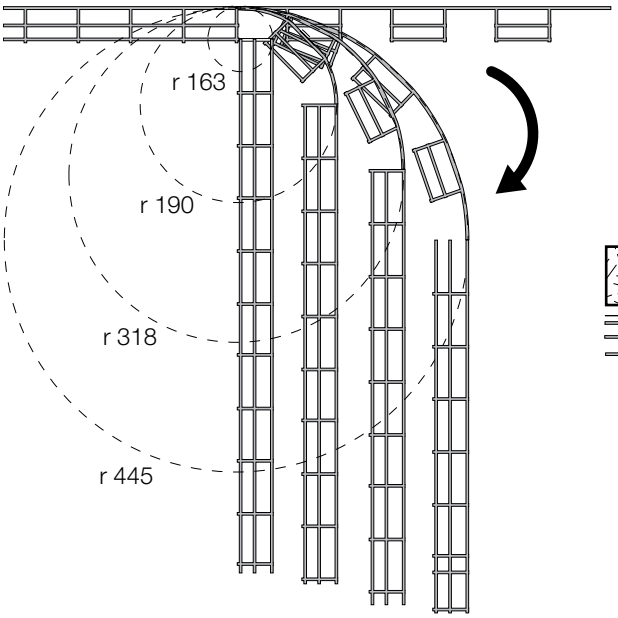
Available Finish	
Suffix	**Description**
H	Hot Dip Galv
Z	Zinc Plated

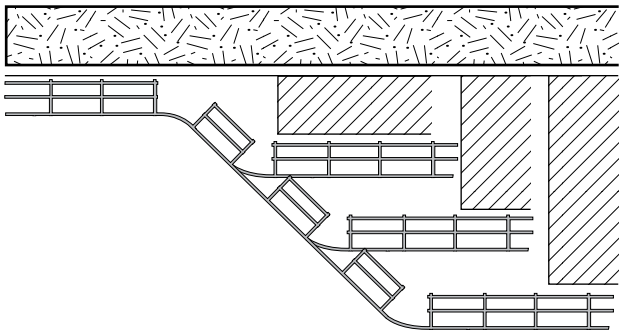
When Ordering add suffix to end of product code

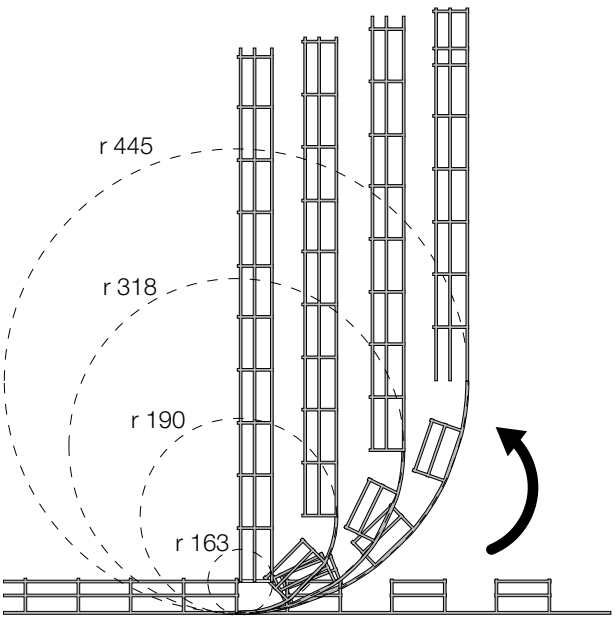
E.&O.E.

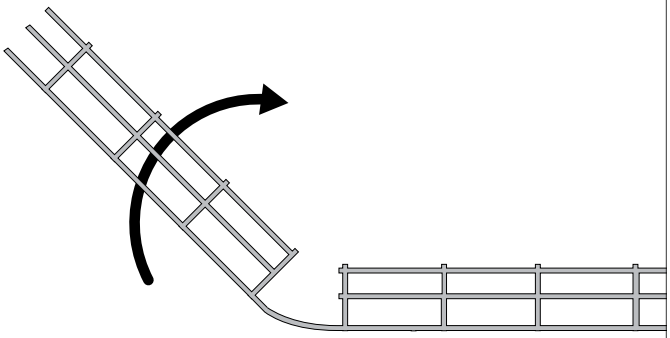
Cable Mesh Tray Assembly Instruction

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.

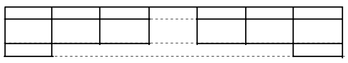
Always use nuts on the outside of trays.

E.&O.E.

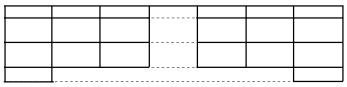
Cable Mesh Tray Assembly Instruction

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.

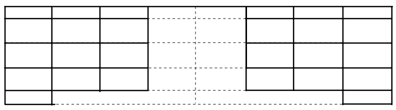
90° Bends – Short Radius



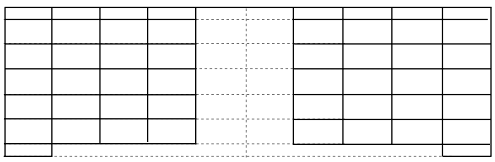
WIDTH OF TRAY	INTERNAL RADIUS mm	SIZE L x L mm	FIXINGS PER BEND



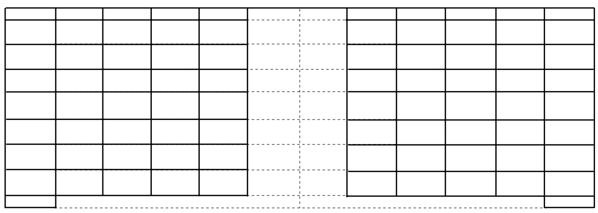
WIDTH OF TRAY	INTERNAL RADIUS mm	SIZE L x L mm	FIXINGS PER BEND



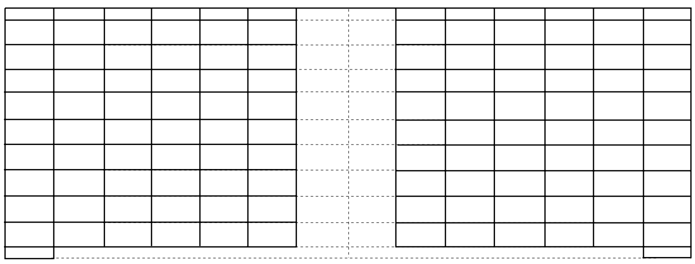
WIDTH OF TRAY	INTERNAL RADIUS mm	SIZE L x L mm	FIXINGS PER BEND



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

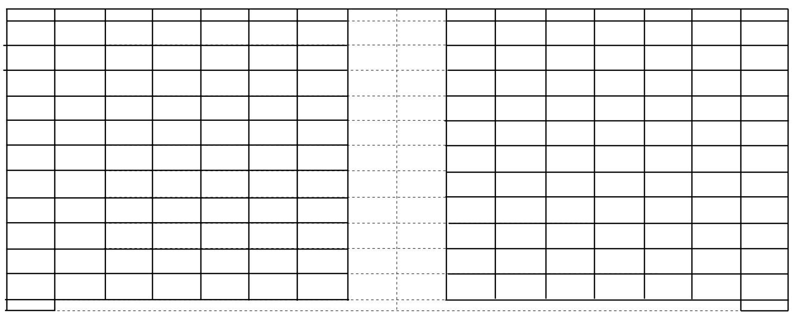


WIDTH OF TRAY	INTERNAL RADIUS mm	SIZE L x L mm	FIXINGS PER BEND



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

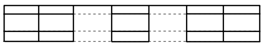


E.&O.E.

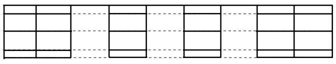
Cable Mesh Tray Assembly Instruction

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.

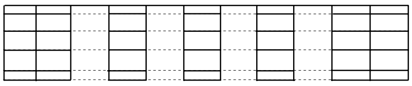
90° Bends – Large Radius



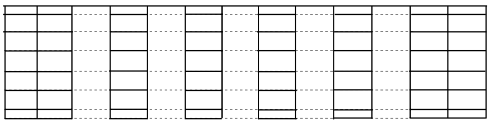
WIDTH OF TRAY	INTERNAL RADIUS mm	SIZE L x L mm



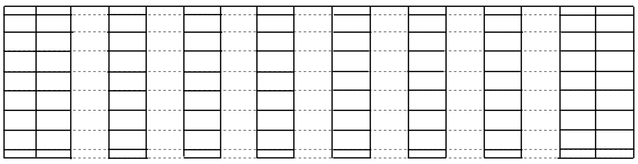
WIDTH OF TRAY	INTERNAL RADIUS mm	SIZE L x L mm



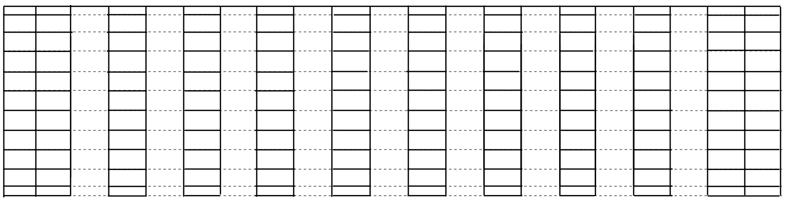
WIDTH OF TRAY	INTERNAL RADIUS mm	SIZE L x L mm



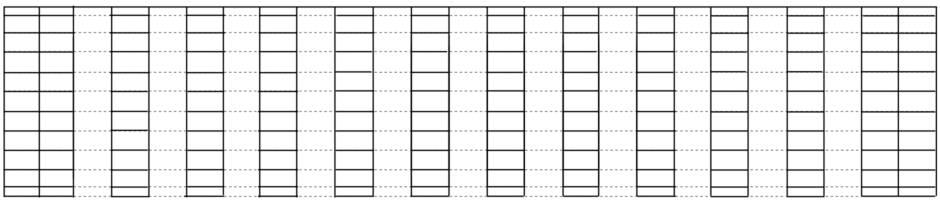
WIDTH OF TRAY	INTERNAL RADIUS mm	SIZE L x L mm



WIDTH OF TRAY	INTERNAL RADIUS mm	SIZE L x L mm



WIDTH OF TRAY	INTERNAL RADIUS mm	SIZE L x L mm

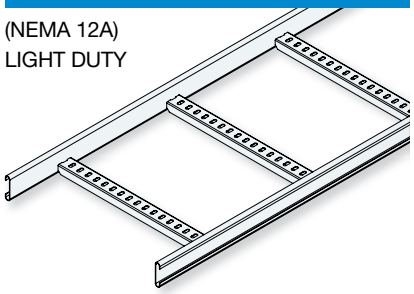


WIDTH OF TRAY	INTERNAL RADIUS mm	SIZE L x L mm

SECTION 3: Cable Ladder Hot Dip Galvanised

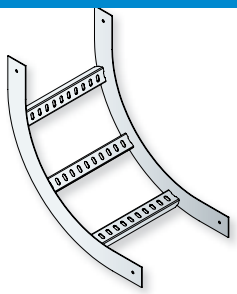
Cable Ladder Type 2/30

(NEMA 12A)
LIGHT DUTY



> 3:3

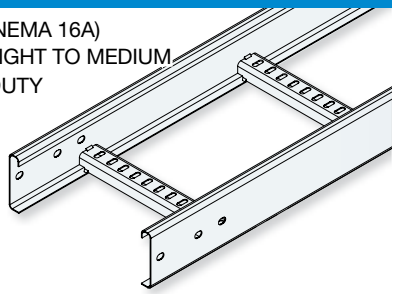
2/30 Fittings



> 3:4-3:6

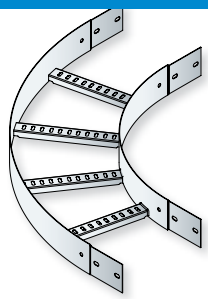
Cable Ladder Type 3/50

(NEMA 16A)
LIGHT TO MEDIUM DUTY



> 3:7

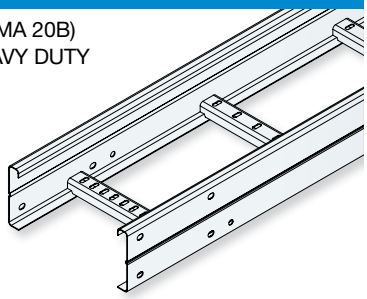
3/50 Fittings



> 3:8-3:10

Cable Ladder Type 4/70L

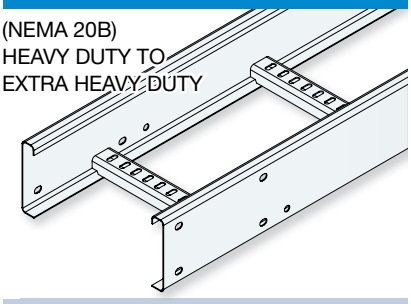
(NEMA 20B)
HEAVY DUTY



> 3:11

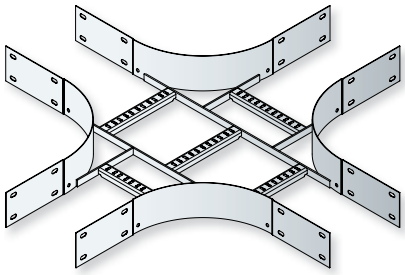
Cable Ladder Type 4/70

(NEMA 20B)
HEAVY DUTY TO EXTRA HEAVY DUTY



> 3:12

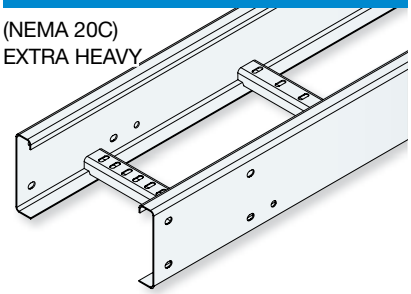
4/70L, 4/70 & 5/112 Fittings



> 3:13-3:16

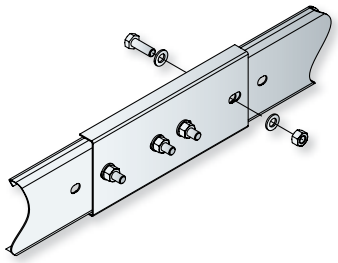
Cable Ladder Type 5/112

(NEMA 20C)
EXTRA HEAVY



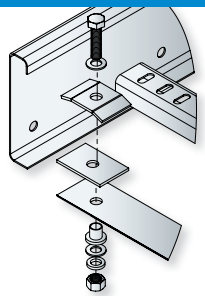
> 3:17

Splice Plates



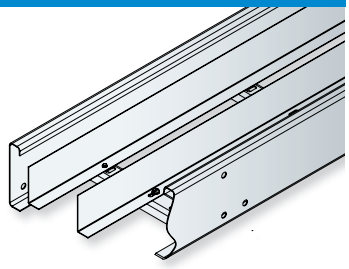
> 3:18

Hold Down Clamps



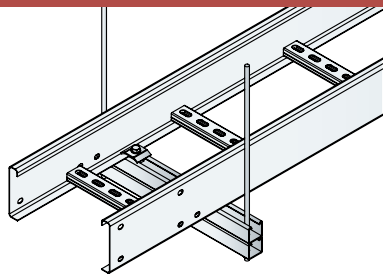
> 3:19

Barrier Strip



> 3:20

Fire Rated Cable Supports



See separate catalogue for Fire Rated Cable Support details

E.&O.E.

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)

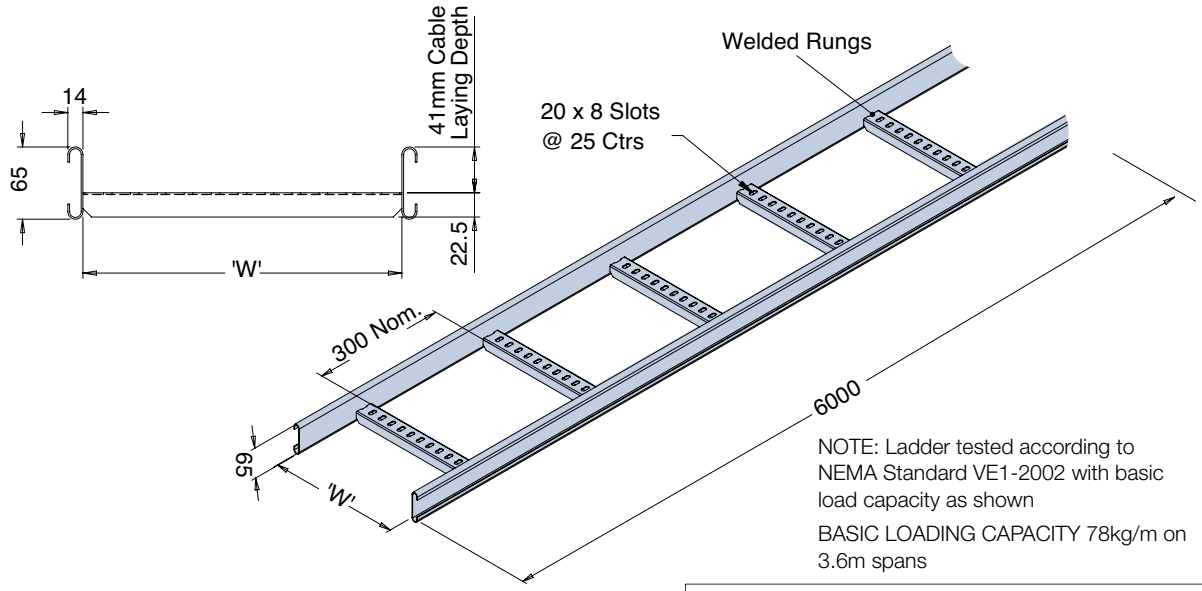
All fitting radius measurements are to the internal side rail, stock standard radius varies depending on cable ladder system type and branch standard. All other listed radius options are made to firm order.

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.

Cable Ladder Light Duty Type 2/30 12A
1.6 mm Steel Galvanised

Cable Ladder Type 2/30 Galvanised



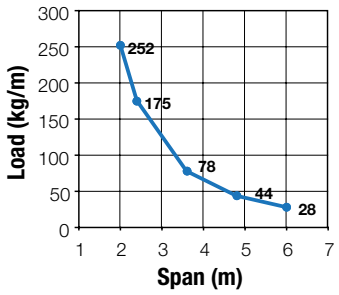
NOTE: Ladder tested according to NEMA Standard VE1-2002 with basic load capacity as shown

BASIC LOADING CAPACITY 78kg/m on 3.6m spans

Specification

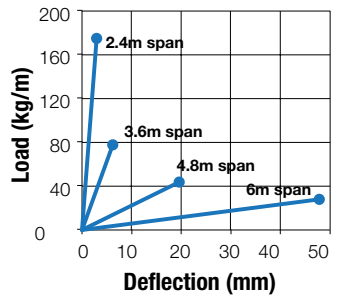
Class Designation:	Cable ladder- light duty type 2/30.
Material:	Steel sheet.
Finish:	Hot dip galvanised after fabrication to: AS/NZS 4680 i.e.390gm/m² zinc, approximately 55µm.
Rung Spacing:	300mm spacing with slotted rungs standard
Side Depth:	65 mm high sided tray.
Inside Depth:	41 mm cable laying depth
Stock Length:	6000 mm standard joining together by a pair of quick fix bolt on splice plates supplied separately. No side rail drilling required.
Stock Widths:	150 mm, 300 mm, 450 mm & 600 mm standard widths.
Fittings:	A full range fitting are available e.g. bend, risers, tees, crosses & reducers.
Radius:	300mm radius for standard fittings. Other radius fittings are available and made to firm orders.
Accessories:	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.

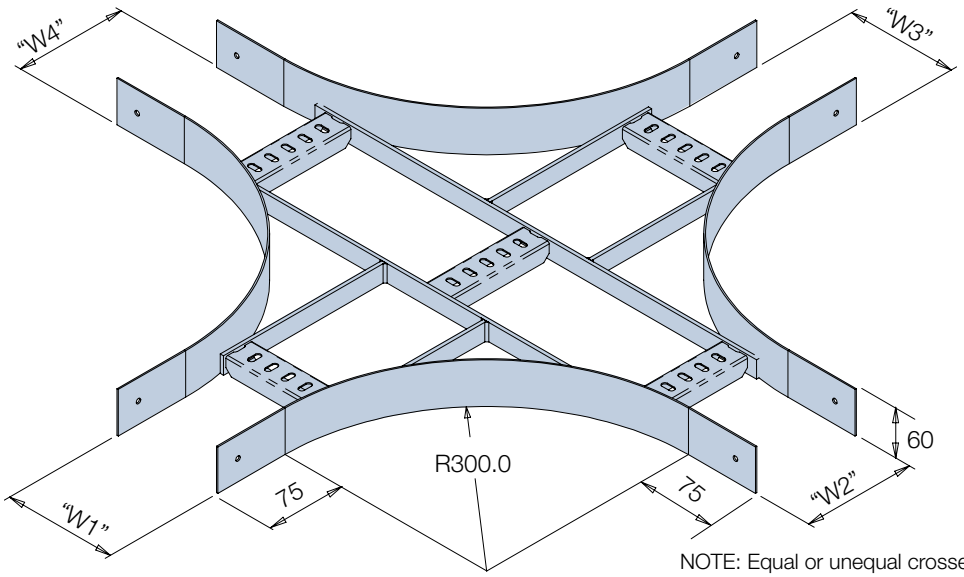
When Ordering

Range	Type	Wide	Std.Finish	Fastenings	Rail Direction	Finish
2C	**L**	**15**	**H**	**K**		**PC-COL**
2C = 2/30 65 mm High Side 1.6 mm Gauge	L = Straight 6 metre Length	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	Only supplied with Rail Out standard rail (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 150mm wide x 6 metre HDG c/w Splice Plates Bolts and Nuts. Painted Finish to specification colour.				

E.&O.E.

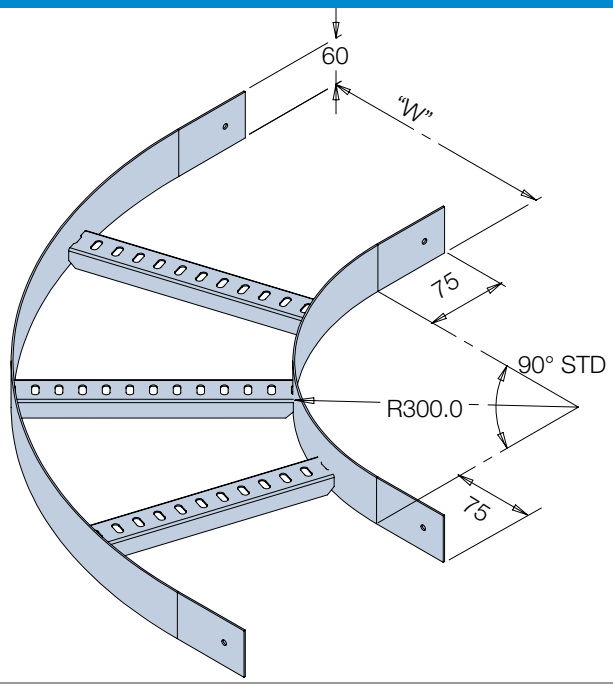
Cable Ladder 2/30 Fittings

Cross



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

Bend



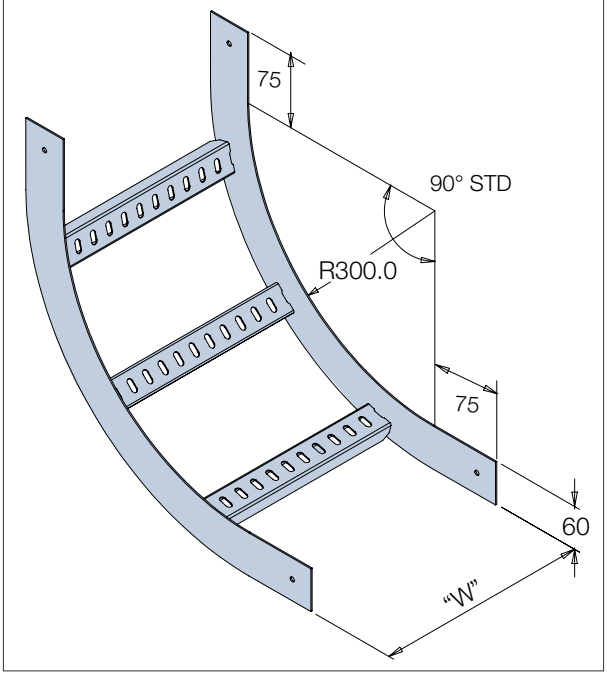
When Ordering

Range	Type	Wide	Material	Fastenings	Rail Direction	Radius	Finish
2C	**B**	**15**	**H**	**K**		**3**	**PC-COL**
2C = 2/30 65 mm High Side1.6 mm thk.	B = Bend 90° (see Ordering note) C = Cross Equal	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	Only supplied with Rail Out standard rail	3 = 300 mm	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					

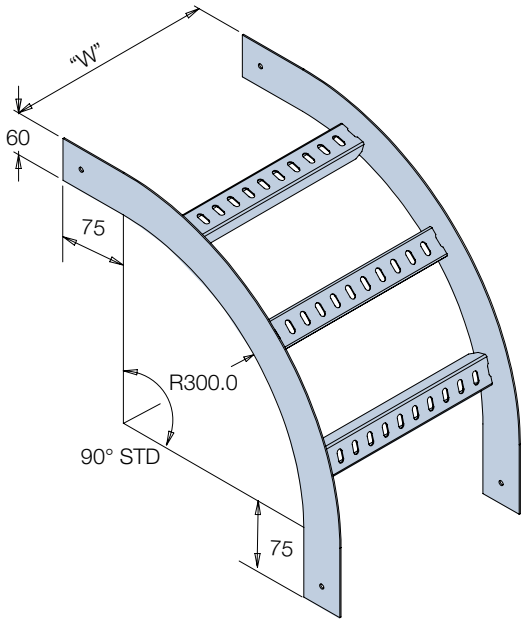
E.&O.E.

Cable Ladder 2/30 Fittings

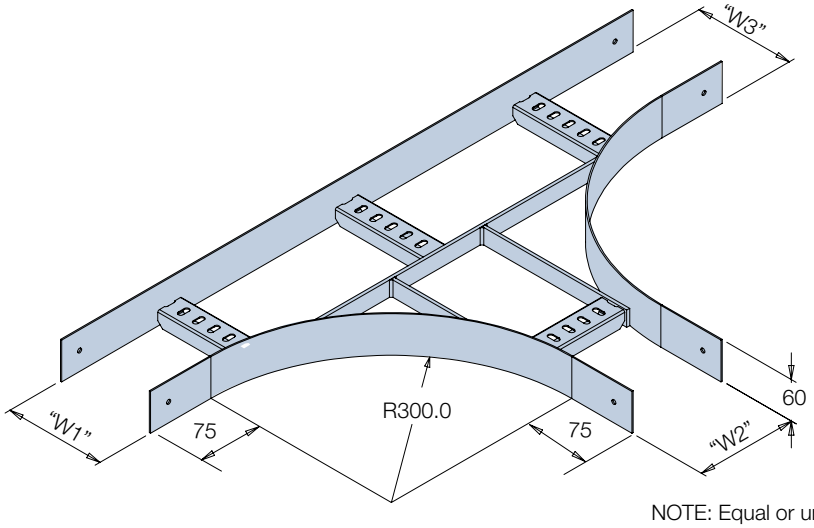
Internal Riser



External Riser



Tee 2/30



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

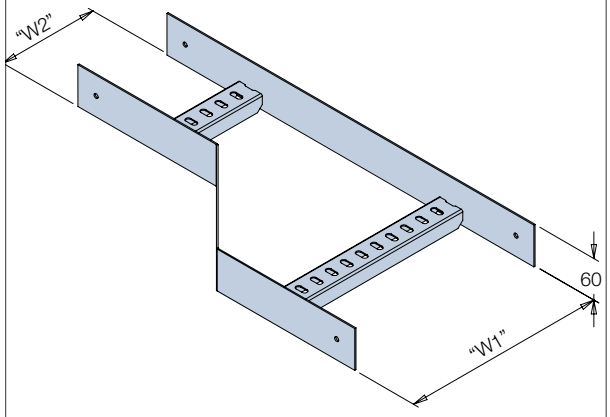
When Ordering

Range	Type	Wide	Material	Fastenings	Rail Direction	Radius	Finish
2C	**RI**	**15**	**H**	**K**		**3**	**PC-COL**
2C = 2/30 65mm High Side 1.6mm thk.	RI = Internal Riser 90° RX=External Riser 90° (see Ordering note) T = Tee Equal	15 = 150 mm 30 = 300 mm 45 = 450 mm 60 = 600 mm 75 = 750 mm 90 = 900 mm	H = Mild Steel Hot Dip Galv	K = includes all required Bolts and nuts	Only supplied with Rail Out standard rail (see Rail note)	3 =300 mm	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° Internal Riser 150 mm wide HDG 300 mm Radius c/w Bolts and Nuts. Painted Finish to specification colour. NOTE: 45, 30 and 60° option shown after width (e.g.: 1545) code for alternative 150 mm 45° Riser.					

E.&O.E.

Cable Ladder 2/30 Fittings

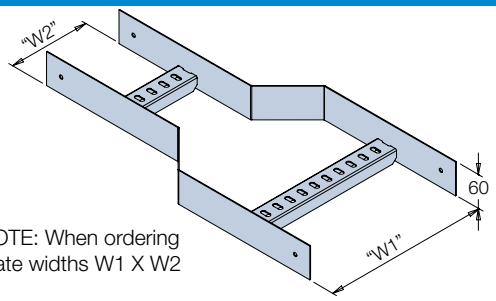
Offset Reducer



NOTE: When ordering state widths W1 X W2

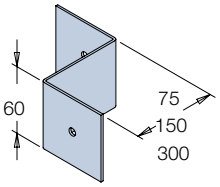
Right Reducer shown

Straight Reducer



NOTE: When ordering state widths W1 X W2

Reducing Splice Plate



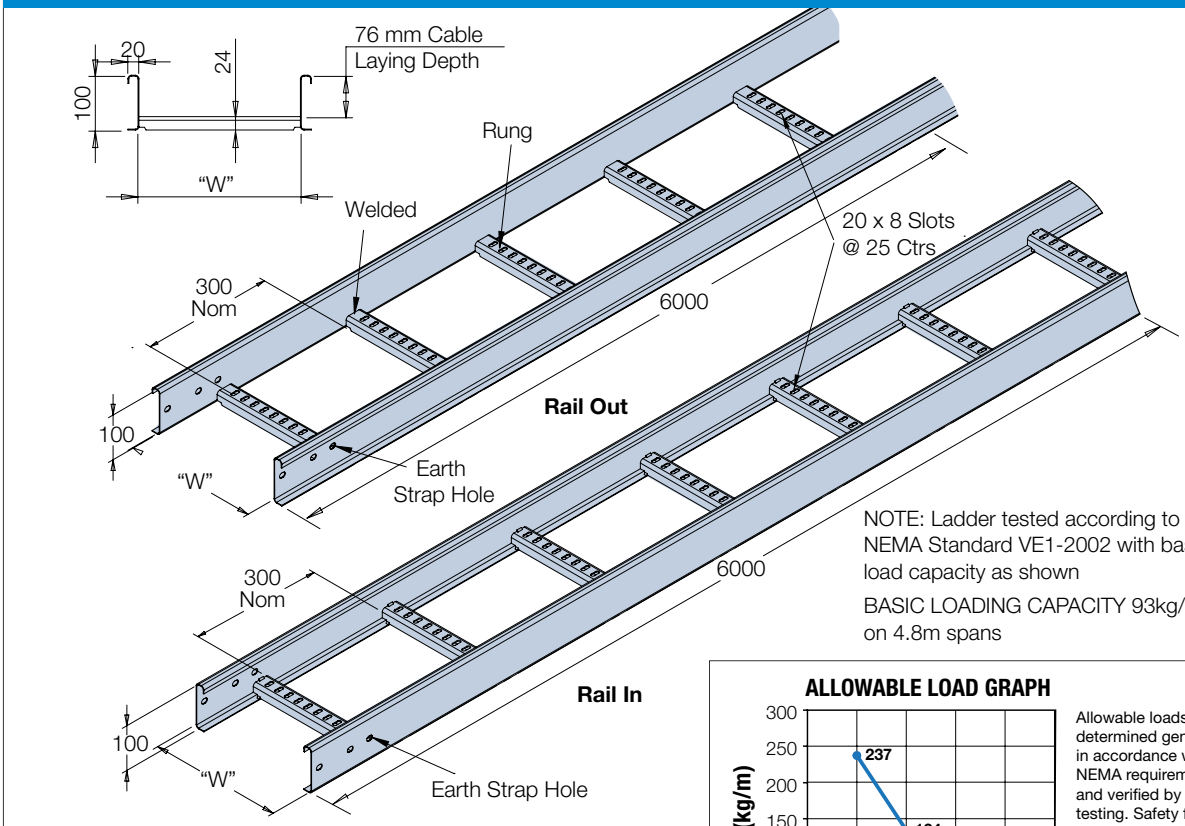
Available for all ladder types and reduction widths.

When Ordering

Range	Type	Wide	Material	Fastenings	Rail Direction	Finish
2C	**SR**	**3015**	**H**	**K**		**PC-COL**
2C = 2/30 65 mm High Side1.6 mm thk.	SR = Straight Reducer RR = Right Reducer LR = Left Reducer PR = Reducing Splice Plate (75-150-300 mm)	3015 = 300 to150 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.				

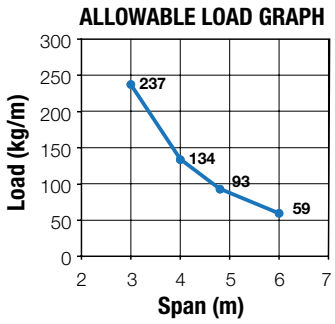
Cable Ladder Medium To Heavy Duty Type 3/50 16A 1.6 mm Steel Galvanised

Cable Ladder Type 3/50 Galvanised

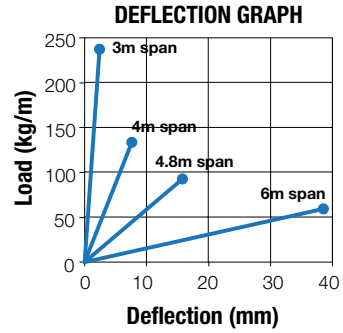


NOTE: Ladder tested according to NEMA Standard VE1-2002 with basic load capacity as shown

BASIC LOADING CAPACITY 93kg/m on 4.8m spans



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



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

Class Designation:	Cable ladder-medium to heavy duty type 3/50
Material:	Steel sheet.
Finish:	Hot dipped galvanised after fabrication to AS/NZS 4680 i.e. 390 gm/m² zinc, approx, 55µm.
Rung Spacing:	300 mm spacings with slotted rungs standard.
Inside Depth:	76 mm cable laying depth.
Stock Length:	6000 mm standard, joining together by full strength splice plates.
Stock Widths:	150 mm, 300 mm, 450 mm & 600 mm standard other widths available by request.
Fittings:	A full range of fittings are available e.g. bends, risers, tees, crosses & reducers.
Radius:	300 mm radius standard for rail in. 450 mm radius standard for rail out. Other radii available by request.
Accessories:	Flat or peak covers available for ladders & fittings. Barrier strips. Hold down clamps.

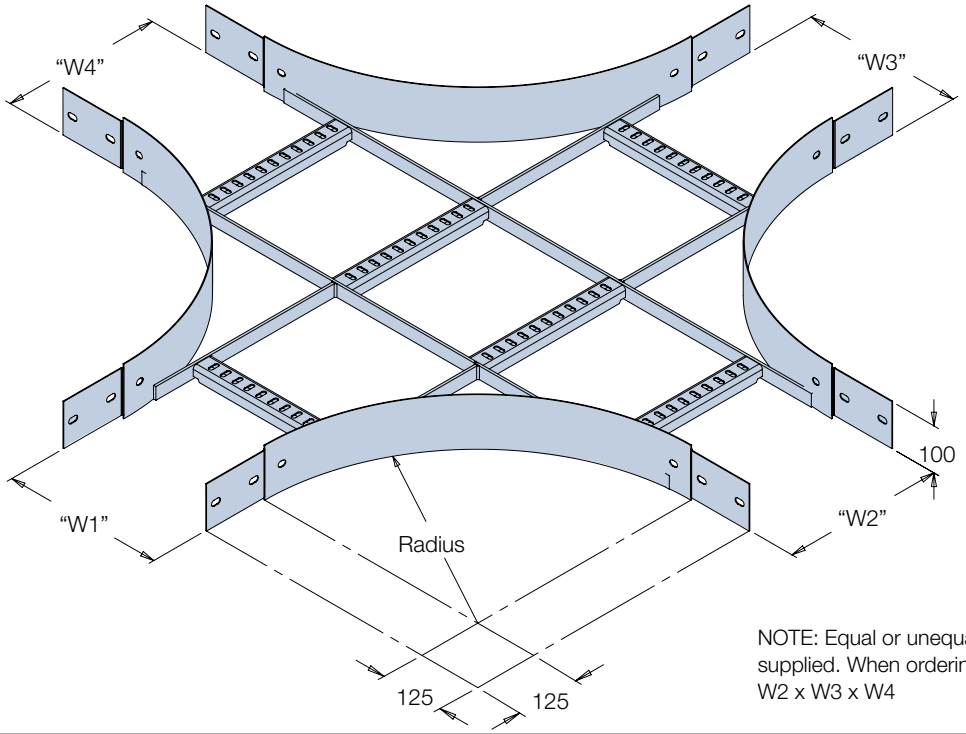
When Ordering

Range	Type	Wide	Std.Finish	Fastenings	Rail Direction	Finish
3C	**L**	**15**	**H**	**K**	**RI or RO**	**PC-COL**
3C = 3/50 100 mm High Side 1.6 mm Gauge	L = Straight 6 metre Length	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 = 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.		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.				

E.&O.E.

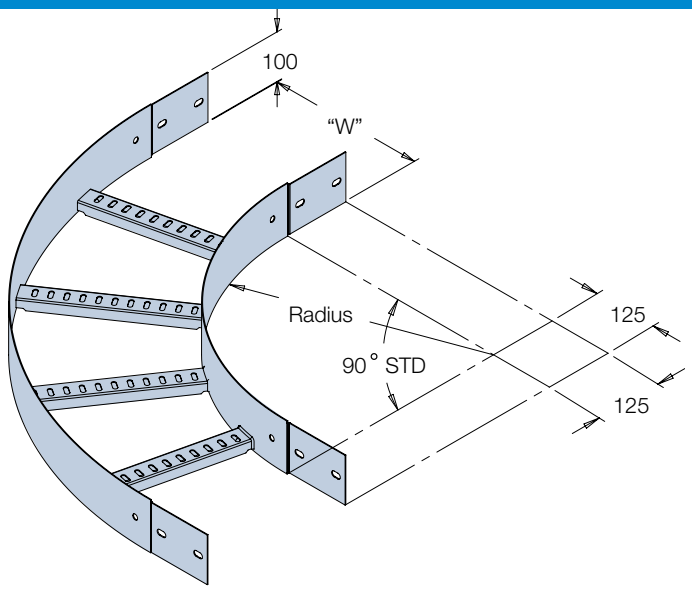
Cable Ladder 3/50 Fittings

Cross



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

Bend



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
3C	**B**	**15**	**H**	**K**	**RI or RO**	**3**	**PC-COL**
3C = 3/50 100 mm High Side 1.6 mm thk.	B = Bend 90° C = Cross 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	K = includes all required Bolts and Nuts	RI = Rail In RO = Rail Out (See Rail In note)	3 = 300 mm 4 = 450mm 6 = 600 mm	PC-COL = paint Painted finish to Kounis standard colour range

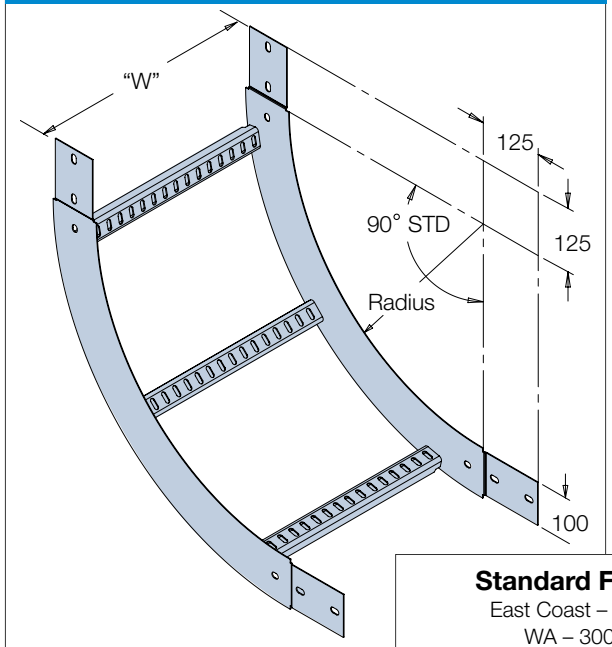
NOTE: Rail In Ladder (RI) is a Kounis standard and will not show in a supply code. All Rail Out ladder will have a RO suffix shown in all supply codes.

ORDERING EXAMPLE SHOWN: 3/50 Cable Ladder 90° Bend 150 mm wide HDG 300 mm Radius c/w Bolts and Nuts. Painted Finish to specification colour.
Notes: 45, 30 & 60° option shown after width (e.g.: 1545) code for 150 mm 45° Bend.
Unequal Cross made to order (eg: W1-15 x W2-30 x W3-15 x W4-30) code for alternative 15301530

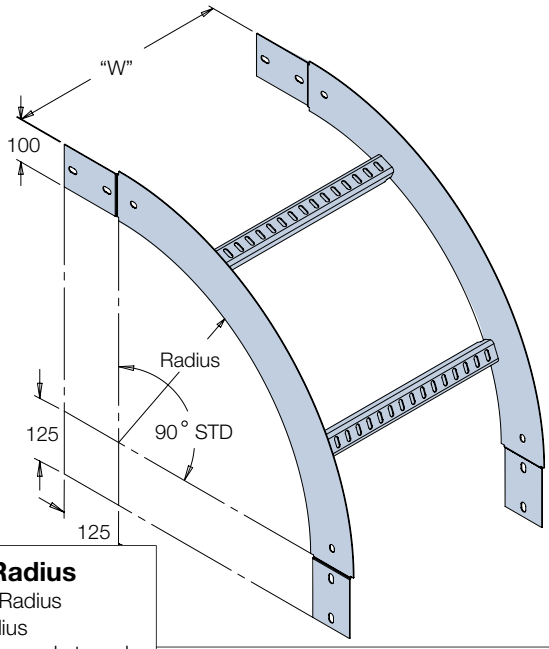
E.&O.E.

Cable Ladder 3/50 Fittings

Internal Riser



External Riser



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

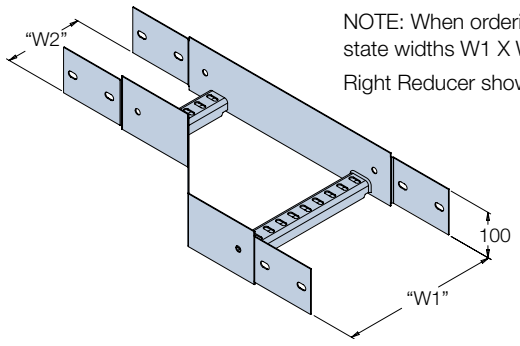
When Ordering

Range	Type	Wide	Material	Fastenings	Rail Direction	Radius	Finish
3C	**RI**	**15**	**H**	**K**	**RI or RO**	**3**	**PC-COL**
3C = 3/50 100mm High Side 1.6mm thk	RI = Internal Riser 90° 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	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 = 450mm 6 = 600 mm	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 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 150 mm 45° Riser.

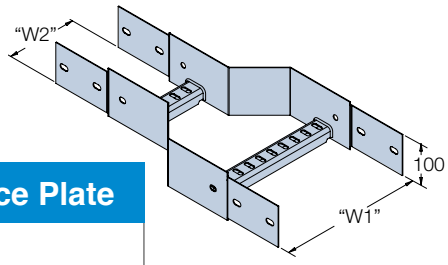
Offset Reducer



NOTE: When ordering state widths W1 X W2

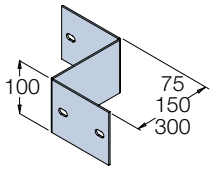
Right Reducer shown

Straight Reducer



NOTE: When ordering state widths W1 X W2

Reducing Splice Plate



Available for all ladder types and reduction widths.

When Ordering

Range	Type	Wide	Material	Fastenings	Rail Direction	Finish
3C	**SR**	**3015**	**H**	**K**	**RI or RO**	**PC-COL**
3C = 3/50 100 mm High Side 1.6 mm thk.	SR = Straight Reducer RR = Right Reducer LR = Left Reducer PR = Reducing Splice Plate (75-150-300 mm) (See Ordering note)	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	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.

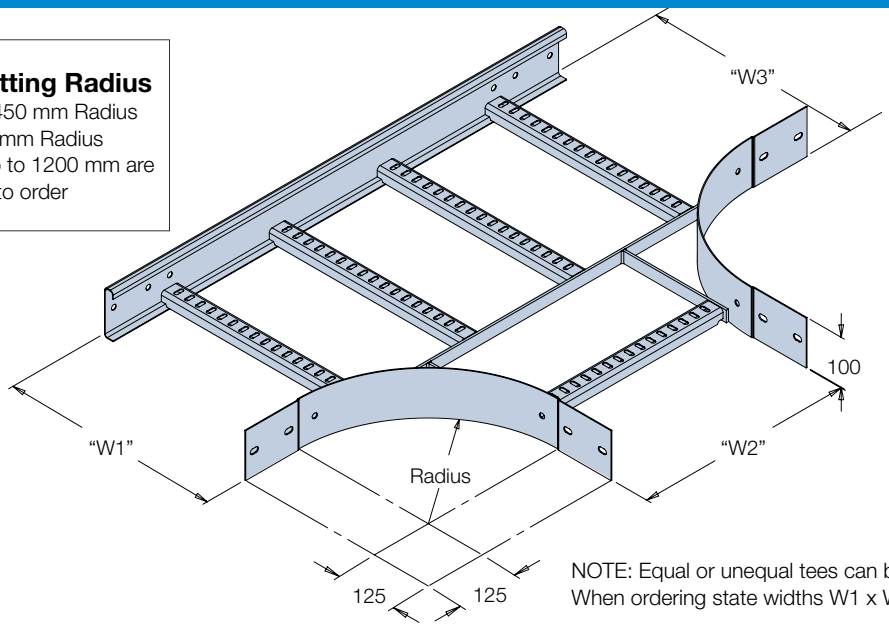
ORDERING EXAMPLE SHOWN: 3/50 Cable Ladder Straight Reducer 300 to 150 mm wide HDG c/w Bolts and Nuts. Painted Finish to specification colour.

E.&O.E.

Cable Ladder 3/50 Fittings

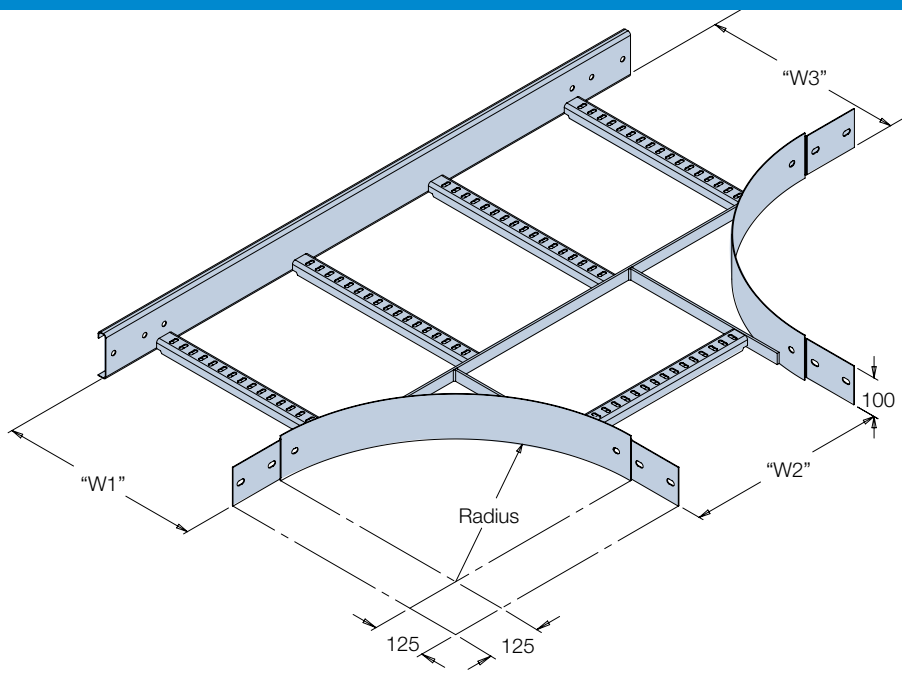
Rail In Tee 3/50

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
3C	**T**	**15**	**H**	**K**	**RI or RO**	**3**	**PC-COL**
3C = 3/50 100 mm High Side 1.6 mm thk	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	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

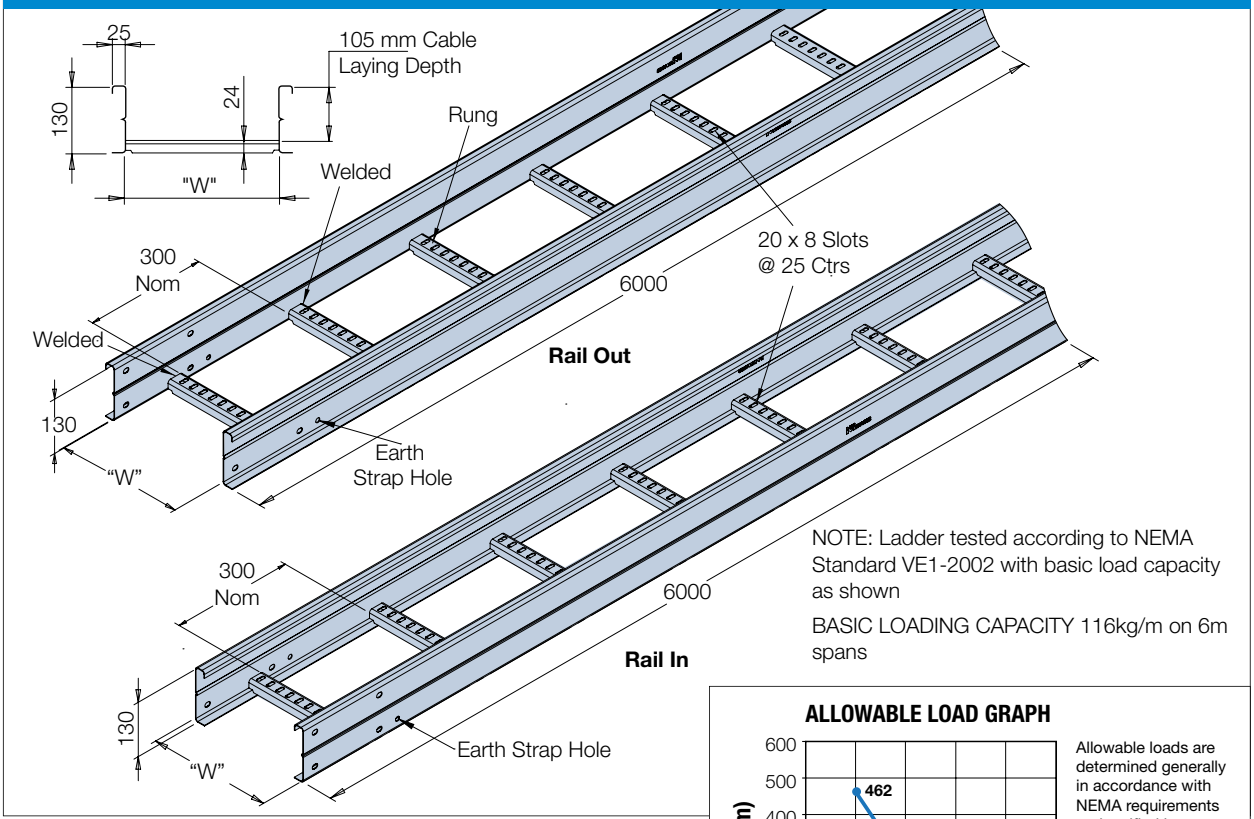
NOTE: Rail In Ladder (RI) is a Kounis standard and will not show in a supply code. All Rail Out ladder will have a RO suffix shown in all supply codes.

ORDERING EXAMPLE SHOWN: 3/50 Cable Ladder Equal Tee 150 mm wide HDG 300 mm Radius c/w Bolts and Nuts. Painted Finish to specification colour.
NOTE: Unequal Tee option made to order (eg:W1-15 x W2-30 x W3-15) code for alternative 153015.

E.&O.E.

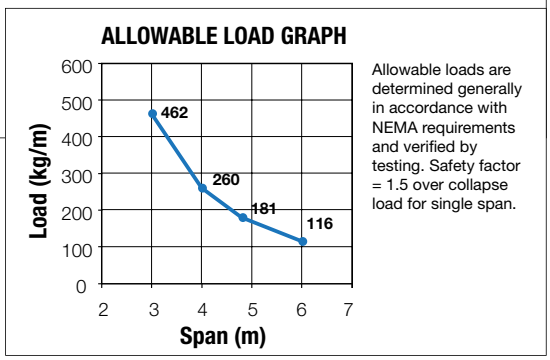
Cable Ladder Heavy Duty Type 4/70L 20B 1.6 mm Steel Galvanised

Cable Ladder Type 4/70L Galvanised

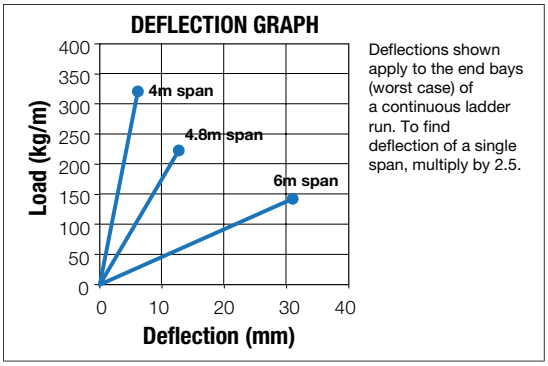


NOTE: Ladder tested according to NEMA Standard VE1-2002 with basic load capacity as shown

BASIC LOADING CAPACITY 116kg/m on 6m spans



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



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

Class Designation:	Cable ladder Heavy Duty type 4/70L
Material:	Steel sheet.
Finish:	Hot dipped galvanised after fabrication. AS/NZS 4680 i.e. 390 gm/m² zinc, approx, 55 µm.
Rung Spacing:	300 mm spacings with slotted rungs standard.
Inside Depth:	105 mm cable laying depth.
Stock Length:	6000 mm standard, joining together by full strength splice plates.
Stock Widths:	150 mm, 300 mm, 450 mm & 600 mm standard.
Fittings:	A full range of fittings are available e.g bends,risers,tees,crosses & reducers.
Radius:	300 mm radius standard for rail in. 450 mm radius standard for rail out. Other radii available by request.
Accessories:	Flat or peak covers available for ladders & fittings. Barrier strips. Hold down clamps.

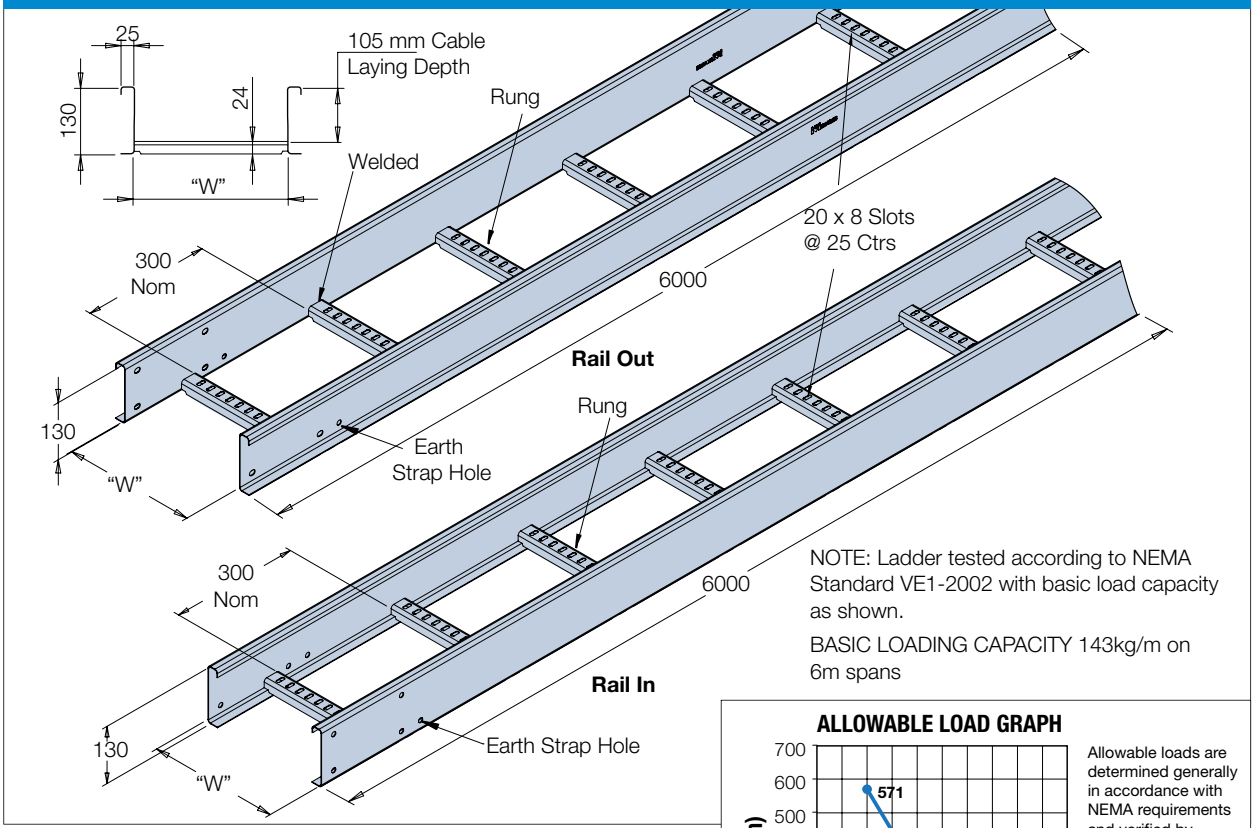
When Ordering

Range	Type	Wide	Std.Finish	Fastenings	Rail Direction	Finish
4CL	**L**	**15**	**H**	**K**	**RI or RO**	**PC-COL**
4CL = 4/70L 130 mm High Side 1.6 mm Gauge	L = Straight 6 metre Length	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 = 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.		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.

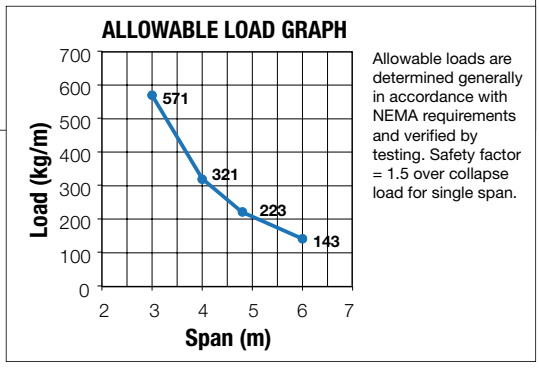
Cable Ladder Heavy to Extra Heavy Duty Type 4/70 20B 2.0 mm Steel Galvanised

Cable Ladder Type 4/70 Galvanised

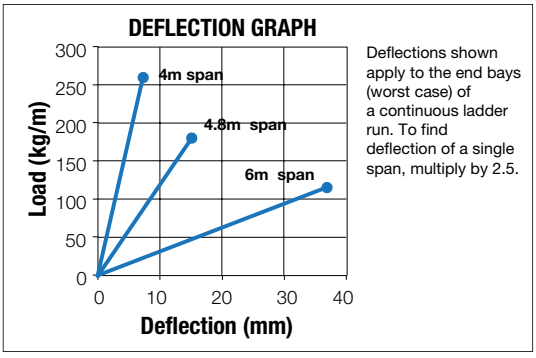


NOTE: Ladder tested according to NEMA Standard VE1-2002 with basic load capacity as shown.

BASIC LOADING CAPACITY 143kg/m on 6m spans



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



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

Class Designation:	Cable ladder heavy to extra heavy duty type 4/70
Material:	Steel sheet.
Finish:	Hot dipped galvanised after fabrication. AS/NZS 4680 i.e. 390 gm/m² zinc, approx, 55 µm.
Rung Spacing:	300 mm spacings with slotted rungs standard.
Inside Depth:	105 mm cable laying depth.
Stock Length:	6000 mm standard , joining together by full strength splice plates.
Stock Widths:	150 mm, 300 mm, 450 mm & 600 mm standard.
Fittings:	A full range of fittings are available e.g bends, risers, tees, crosses & reducers.
Radius:	300 mm radius standard for rail in. 450 mm radius standard for rail out. Other radii available by request.
Accessories:	Flat or peak covers available for ladders & fittings. Barrier strips. Hold down clamps.

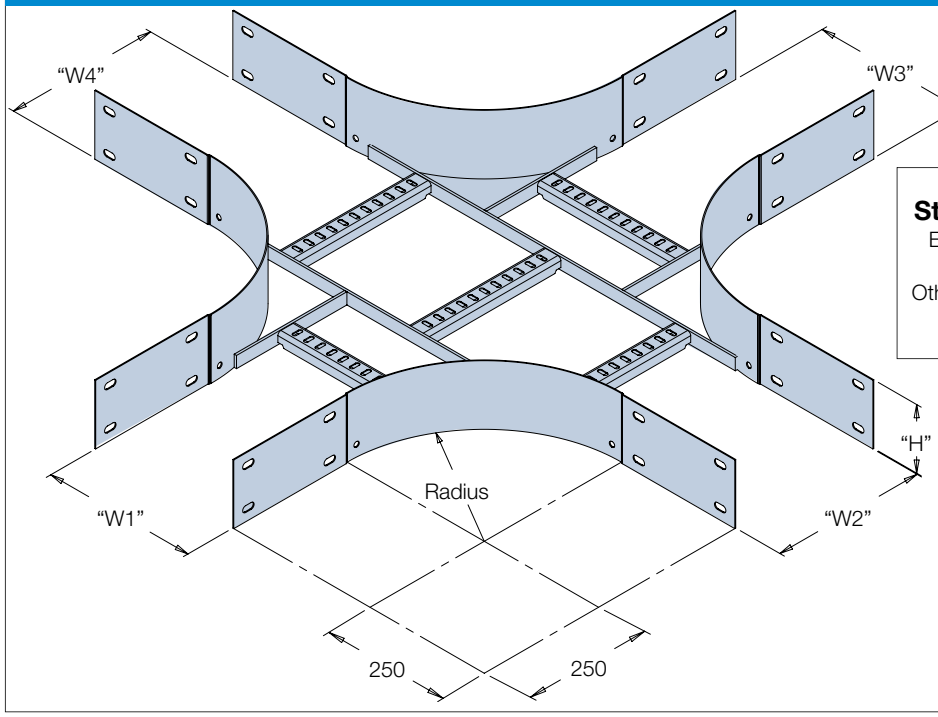
When Ordering

Range	Type	Wide	Std.Finish	Fastenings	Rail Direction	Finish
4C	**L**	**15**	**H**	**K**	**RI or RO**	**PC-COL**
4C = 4/70 130 mm High Side 2.0 mm Gauge	L = Straight 6 metre Length	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 = 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.		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



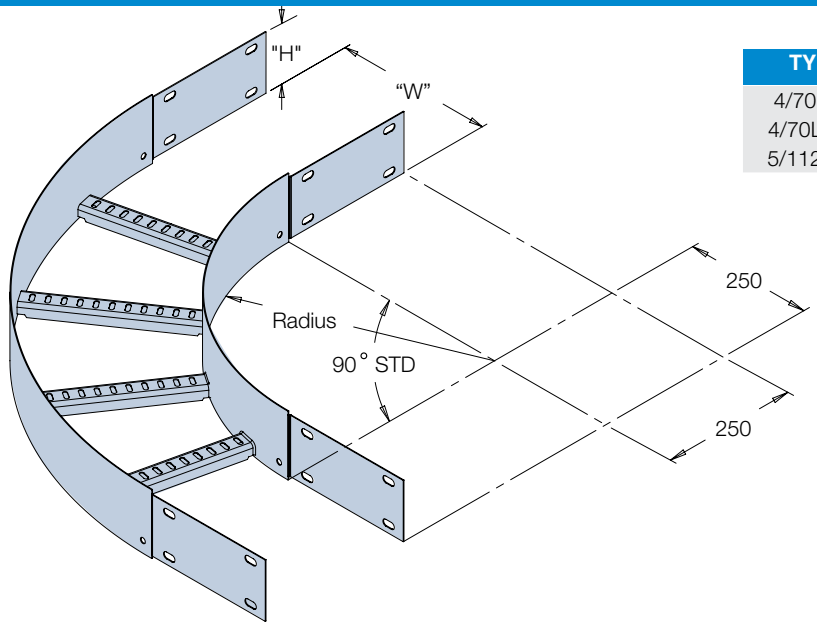
Standard Fitting Radius
East Coast – 450 mm Radius
WA – 300 mm Radius
Other Radius up to 1200 mm are made to order

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

NOTE: Equal or unequal crosses can be supplied.

When ordering state widths W1 x W2 x W3 x W4

Bend 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
4C	**B**	**15**	**H**	**K**	**RI or RO**	**3**	**PC-COL**
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 = Bend 90° C = Cross Equal **4/70 & 5/112** BL= Bend 90° CL = Cross Equal **4/70L and stainless** (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	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

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.

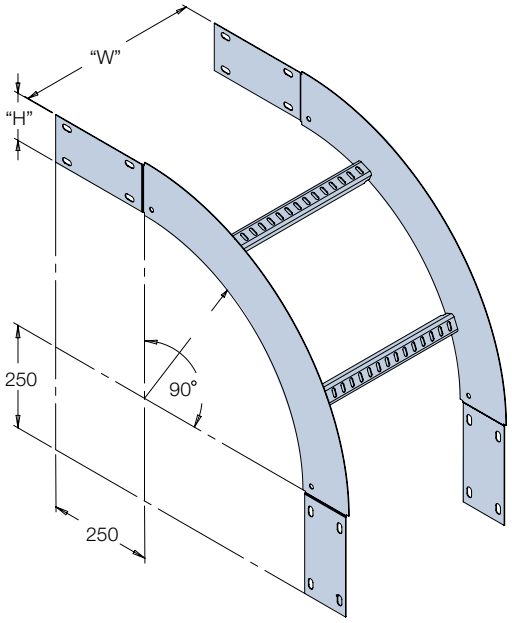
ORDERING EXAMPLE SHOWN: 4/70 Cable Ladder 90° Bend 150 mm wide HDG 300 mm Radius c/w Bolts and Nuts. Painted Finish to specification colour.
Note: 45, 30 & 60° option shown after size (e.g.: 1545) code for alternative 150mm 45° Riser.

E.&O.E.

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

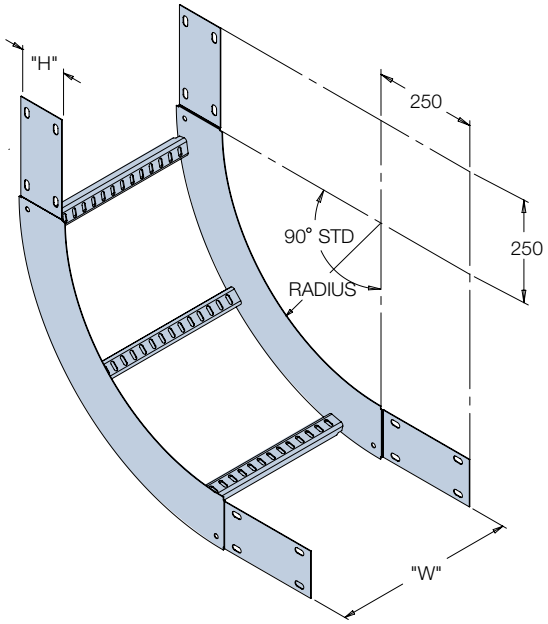
External Riser 4/70L, 4/70 & 5/112

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
4C	**RI**	**15**	**H**	**K**	**RI & RO**	**3**	**PC-COL**
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	RI = Internal Riser 90° RX=External Riser 90° **4/70 & 5/112** RIL = Internal Riser 90° RXL = External Riser 90° **470L and stainless** (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	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

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.

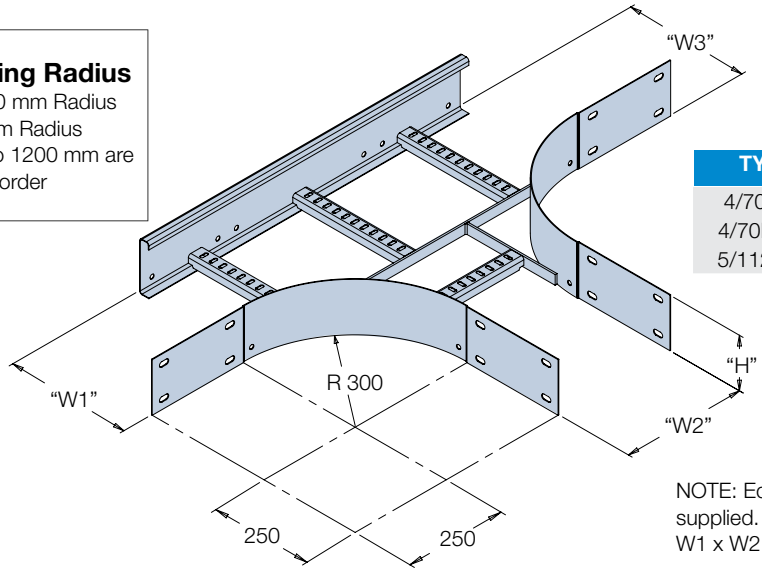
ORDERING EXAMPLE SHOWN: 4/70 Cable Ladder 90° Internal Riser 150 mm wide HDG 300 mm Radius c/w Bolts and Nuts. Painted Finish to specification colour.
Note: 45, 30 & 60° option shown after size (e.g.: 1545) code for alternative 150mm 45° Riser.

E.&O.E.

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

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

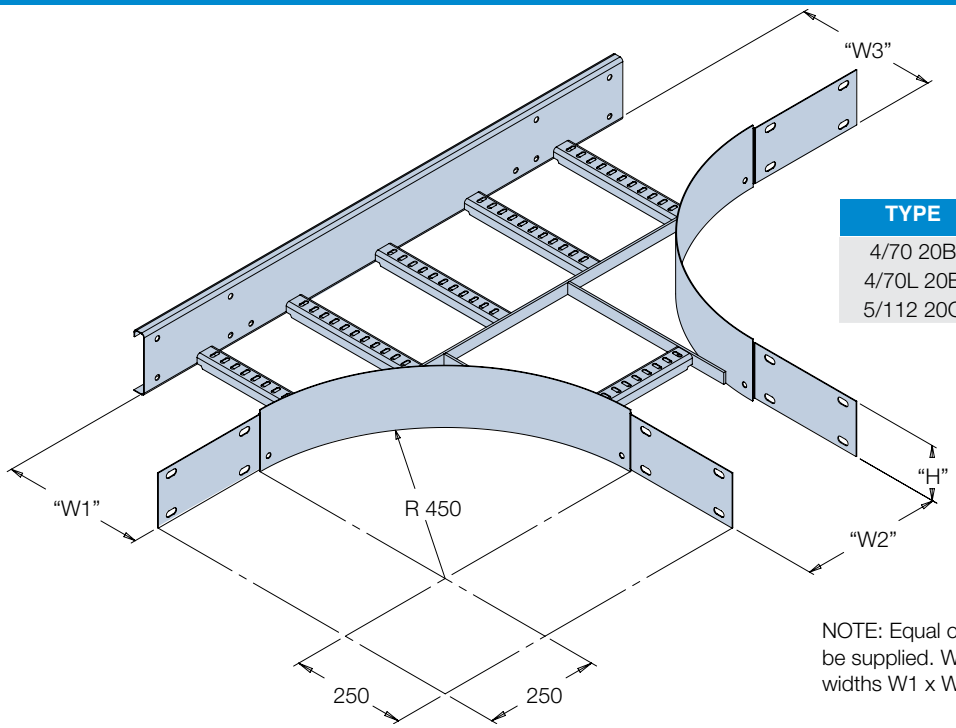
Standard Fitting Radius
East Coast – 450 mm Radius
WA – 300 mm Radius
Other Radius up to 1200 mm are made to order



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
4C	**T**	**15**	**H**	**K**	**RI or RO**	**3**	**PC-COL**
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	T = Tee Equal **4/70 & 5/112** TL = Tee Equal RO **4/70L and stainless** (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	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

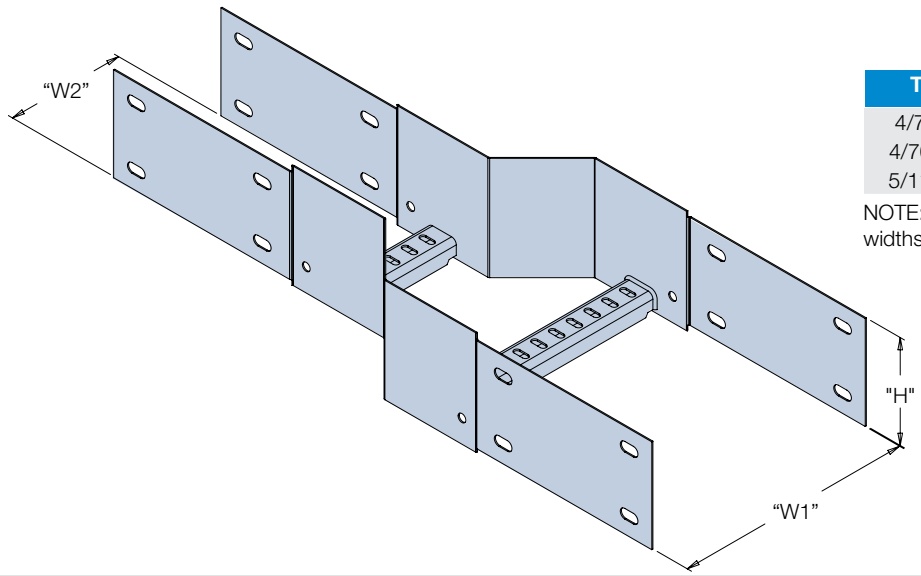
NOTE: Rail In Ladder (RI) is a Kounis standard and will not show in a supply code. All Rail Out ladder will have a RO suffix shown in all supply codes.

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

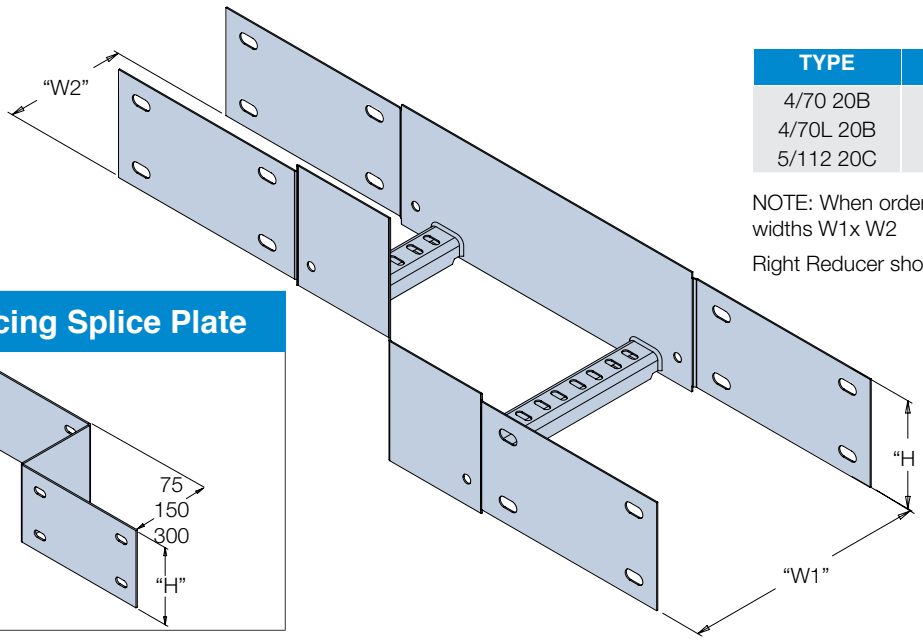
Straight Reducer 4/70L, 4/70 & 5/112



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

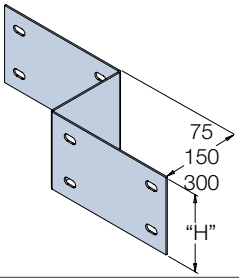


TYPE	HEIGHT
4/70 20B	130 mm
4/70L 20B	130 mm
5/112 20C	146 mm

NOTE: When ordering state widths W1x W2

Right Reducer shown

Reducing Splice Plate



When Ordering

Range	Type	Wide	Material	Fastenings	Rail Direction	Finish
4C	**SR**	**3015**	**H**	**K**	**RI or RO**	**PC-COL**
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	SR = Straight Reducer RR = Right Reducer LR = Left Reducer PR = Reducing Splice Plate (75-150-300 mm) **470 and 5/112** SRL = Straight Reducer RRL = Right Reducer LRL = Left Reducer **470L and stainless** (see Ordering note)	3015 = 300 to150 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 Painted finish to 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

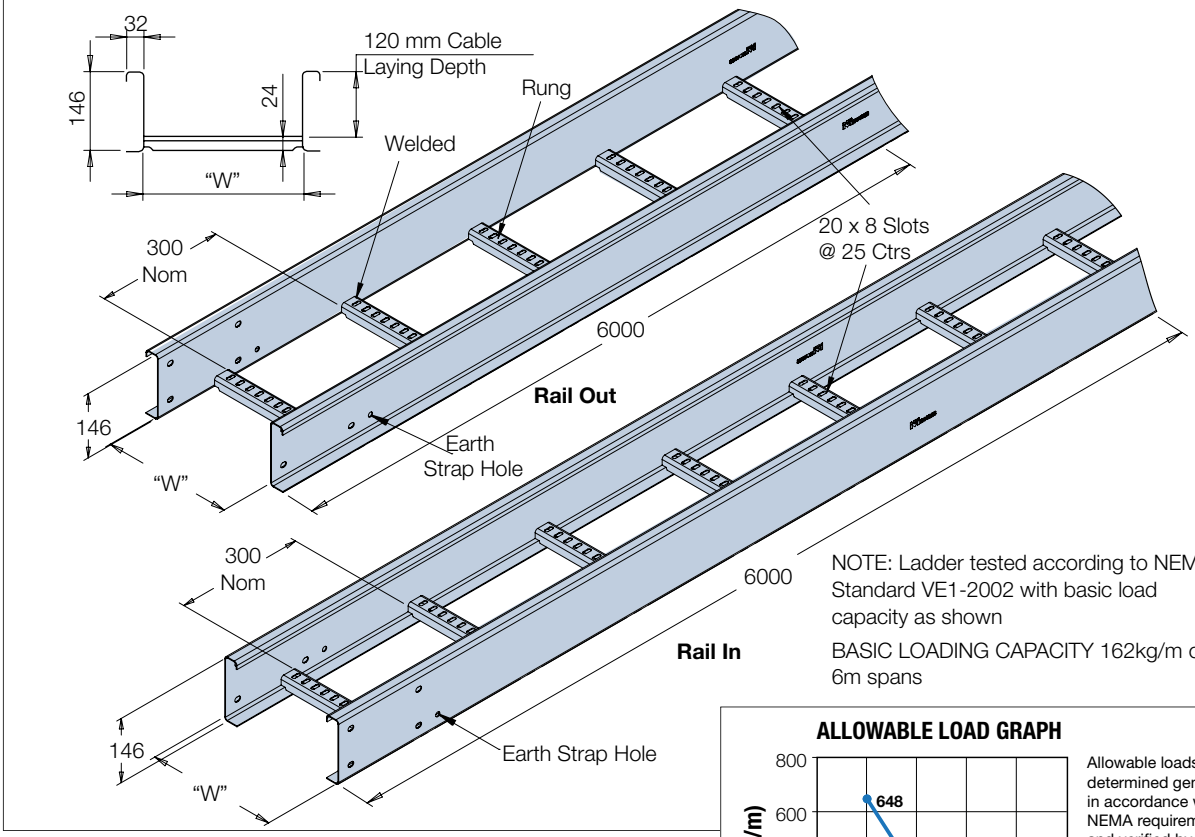
NOTE: Rail In Ladder (RI) is a Kounis standard and will not show in a supply code. All Rail Out ladder will have a RO suffix shown in all supply codes.

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.

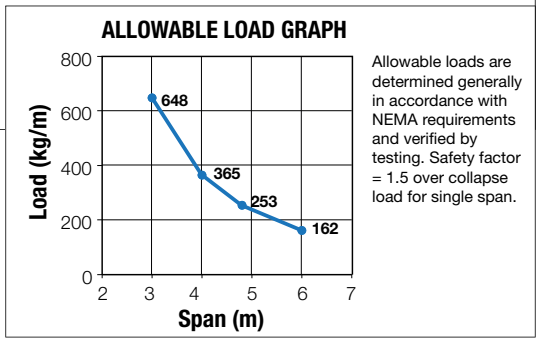
Cable Ladder Extra Heavy Duty Type 5/112 20C 2 mm Steel Galvanised

Cable ladder Type 5/112 Galvanised

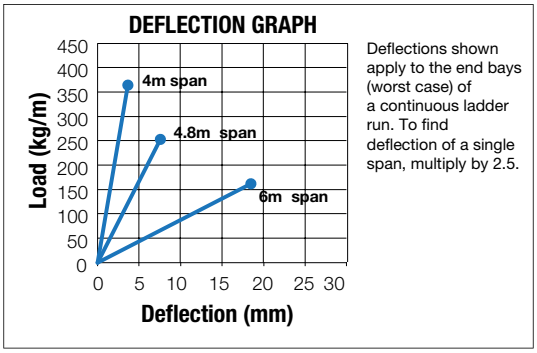


NOTE: Ladder tested according to NEMA Standard VE1-2002 with basic load capacity as shown

BASIC LOADING CAPACITY 162kg/m on 6m spans



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



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

Class Designation:	Cable ladder extra heavy duty type 5/112.
Material:	Steel sheet.
Finish:	Hot dipped galvanised after fabrication to AS/NZS 4680 ie 390 gm/m² zinc, approx, 55 µm.
Rung Spacing:	300 mm spacings with slotted rungs standard.
Inside Depth:	120 mm cable laying depth.
Stock Length:	6000 mm standard, joining together by full strength splice plates.
Stock Widths:	150 mm, 300 mm, 450 mm & 600 mm standard.
Fittings:	A full range of fittings are available e.g bends, risers, tees, crosses & reducers.
Radius:	300 mm radius standard for rail in. 450 mm radius standard for rail out. Other radii available by request.
Accessories:	Flat or peak covers available for ladders & fittings. Barrier strips. Hold down clamps.

When Ordering

Range	Type	Wide	Material	Fastenings	Rail Direction	Finish
5C	**L**	**15**	**H**	**K**	**RI or RO**	**PC-COL**
5C = 5/112 146 mm High Side 2.0 mm Gauge	L = Straight 6 metre Length	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 = 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.

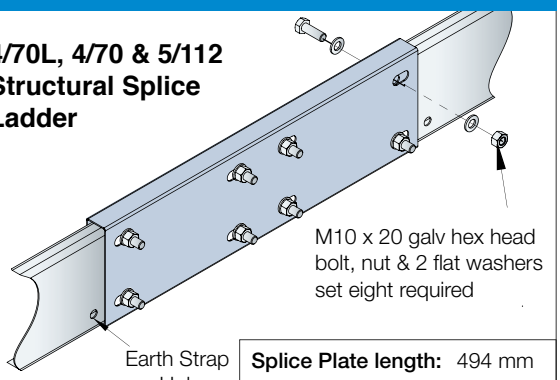
ORDERING EXAMPLE SHOWN: 5/112 Cable Ladder 150 mm wide x 6 metre HDG c/w Splice Plates Bolts and Nuts. Painted Finish to specification colour.

E.&O.E.

Cable Ladder Splice Plates

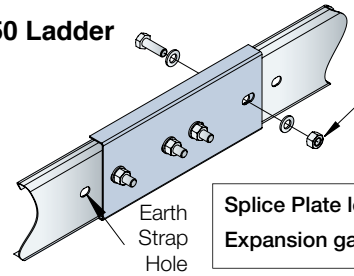
Rail In Splice Plates

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



Splice Plate length:	494 mm
Expansion gap:	20 mm

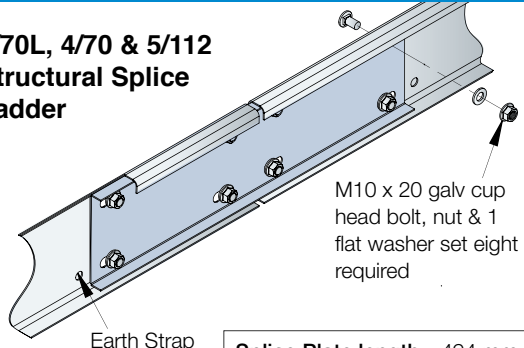
3/50 Ladder



Splice Plate length:	247 mm
Expansion gap:	7 mm

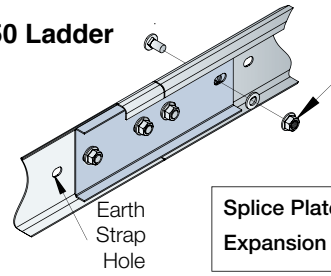
Rail Out Splice Plates

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



Splice Plate length:	494 mm
Expansion gap:	20 mm

3/50 Ladder



Splice Plate length:	247 mm
Expansion gap:	7 mm

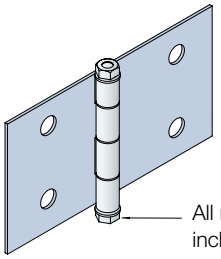
Bolting of straight section cable ladder to be as NEMA-VE2-2006 Cl.4.3 and with the tourque settings shown.

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

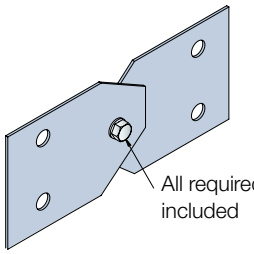
When Ordering

Range	Type	Material	Fastenings	Rail Direction	Finish
3C	**LP**	**H**	**K**	**RI or RO**	**PC-COL**
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			

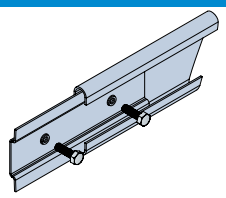
Horizontal Hinge Splice Plate



Verticle Hinge Splice Plate



2/30 Splice Plate



When Ordering

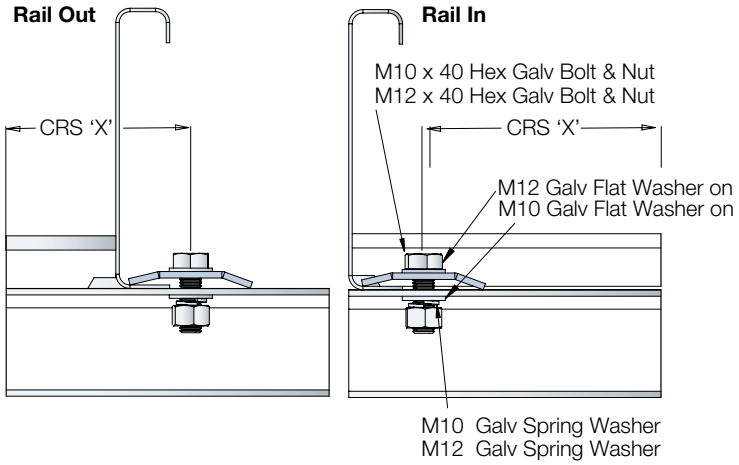
Range	Type	Material	Fastenings	Finish
2C	**HP**	**H**	**K**	**PC-COL**
2C = 2/30 65 mm High Side 3C = 3/50 100 mm High Side 4-5C = 4/70 130 mm High Side and 5/112 146 mm High Side	HP = Horizontal Hinge Splice Plate VP = Vertical Hinge Splice Plate	H = Mild Steel Hot Dip Galv S = 316 Stainless Steel A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

E.&O.E.

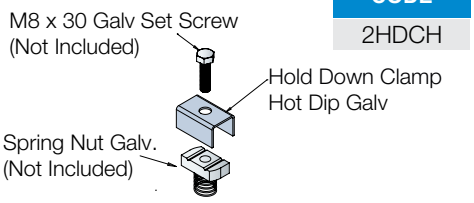
Cable Ladder Hold Down Clamps

Cable Ladder Hold Down Clamp Assembly

RAIL OUT WIDTH	CYCLONIC CRS 'X'	STANDARD 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 WIDTH	**CYCLONIC CRS 'X'**	**STANDARD 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	

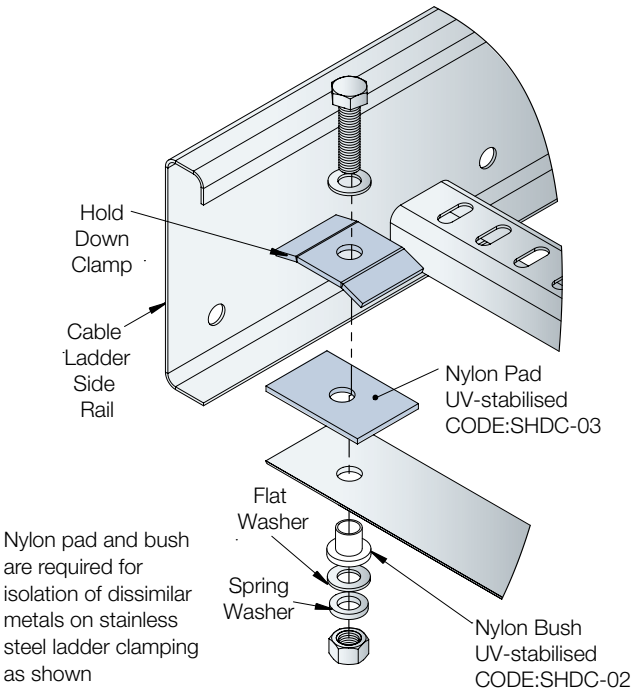


2/30 Hold Down Clamp Assembly



CODE
2HDCH

Stainless Steel Cable Ladder Hold Down Assembly



Nylon pad and bush are required for isolation of dissimilar metals on stainless steel ladder clamping as shown

When Ordering

Range	Type	Finish
HDC	**S**	**H**
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.

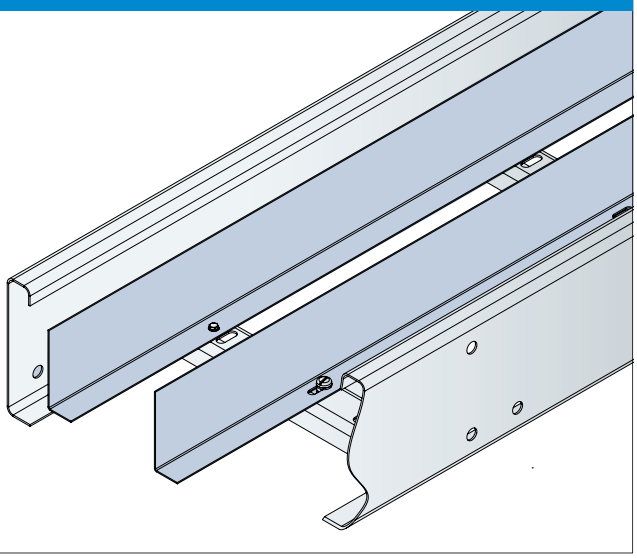
E.&O.E.

Cable Ladder Barrier Strip & Earth Strap

Barrier Strip – Length 3 m

Barrier Strip

Barrier Strip is supplied in 3 m lenghts 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).



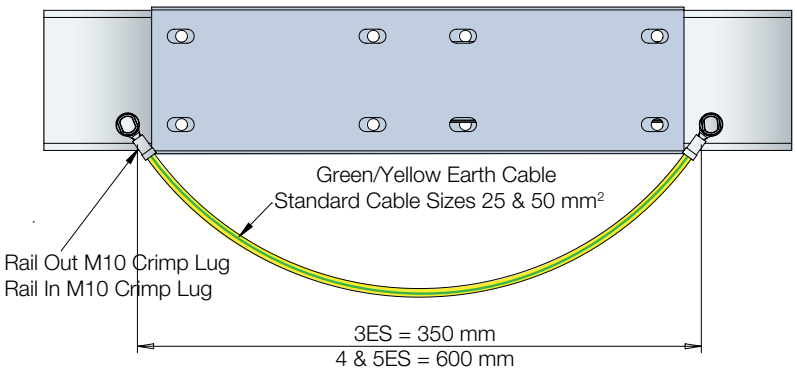
Barrier Fixings Sold Separately

CODE	BARRIER FIXINGS 3 REQUIRED PER BARRIER
CSKH	Tek Galv – Tek Screw Hex 12-14 x 20 HDG
CSKS	Tek SS – Tek Screw Hex12-14 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

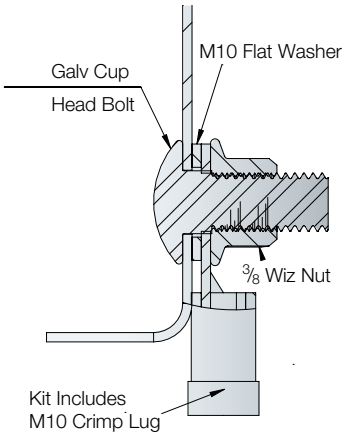
When Ordering

Range	Type	Material	Finish	Fastenings
4-5C 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	**ST** ST = Segregation Slotted Flange S = Solid Flange	**L** L = 0.6 mm Thick steel (N/A in Hot Dip Galv) M = 1.0 mm Thick Steel H = 1.6 mm Thick Steel	**G** G = Galvabond H = Hot Dip Galvanised S = Stainless Steel A = Aluminium	**K** K = Includes all required fixing screws and nuts

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



Rail Out Bolting Arrangement



EARTH STRAP KIT CODE

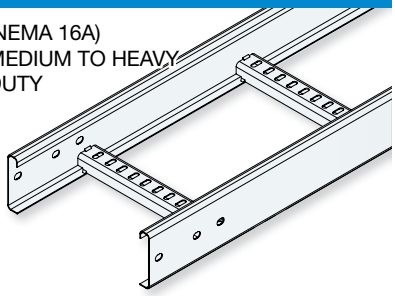
GALV	S/STEEL	GALV	S/STEEL	Fastenings – Rail In		Fastenings – Rail Out Galv		
CODE RAIL IN	CODE RAIL IN	CODE RAIL OUT	CODE RAIL OUT	CODE	Description Galv	CODE	Description Galv	QTY
3ESHK	3ESSK	3ESHROK	3ESSROK	HHB1025H	M10 x 25 Hex Galv Screw	CHB3818S	3/8 x 3/4 CupHd Galv Screw	2EA
4-5ESHK	4-5ESSK	4-5ESHROK	4-5ESSROK	HN10H	M10 Hex Galv Nut	HN10S	3/8 Galv Whizz Nut	2EA
4-5ESHK	4-5ESSK	4-5ESHROK	4-5ESSROK	FW10H SW10H	M10 Galv Flat Washer M10 Galv Spring Washer	FW10S N/A	M10 Galv Flat Washer M10 Galv Spring Washer	2EA 2EA
NOTE: Kit comprises earth strap and fastenings as shown. Specify cable size in ordering code i.e. 4-5ES 50 HROK (50 mm² size). Kounis can supply 16, 25, 35, 50, 70 and 120 mm² earth straps.				CODE	Description S/Steel	CODE	Description S/Steel	QTY
				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 SW10S	M10 SSteel Flat Washer M10 SSteel Spring Washer	FW10S SW10S	M10 SSteel Flat Washer M10 SSteel Spring Washer	2EA 2EA

E.&O.E.

SECTION 4: Cable Ladder Stainless Steel & Aluminium

Stainless Steel Type 3/50

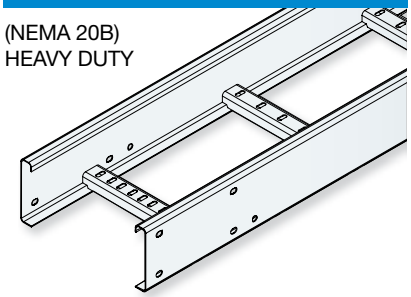
(NEMA 16A)
MEDIUM TO HEAVY DUTY



> 4:3

Stainless Steel Type 4/70L

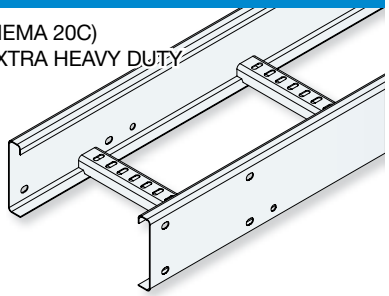
(NEMA 20B)
HEAVY DUTY



> 4:4

Stainless Steel Type 5/112

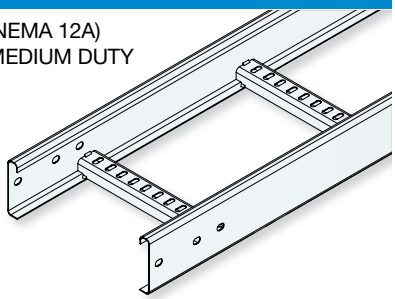
(NEMA 20C)
EXTRA HEAVY DUTY



> 4:5

Aluminium Type 3/50

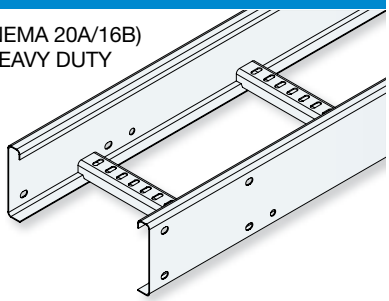
(NEMA 12A)
MEDIUM DUTY



> 4:7

Aluminium Type 4/70

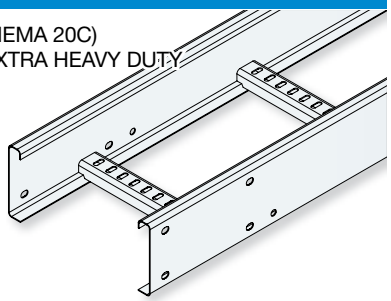
(NEMA 20A/16B)
HEAVY DUTY



> 4:8

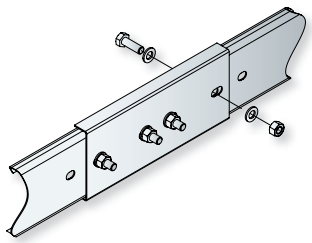
Aluminium Type 5/112

(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.

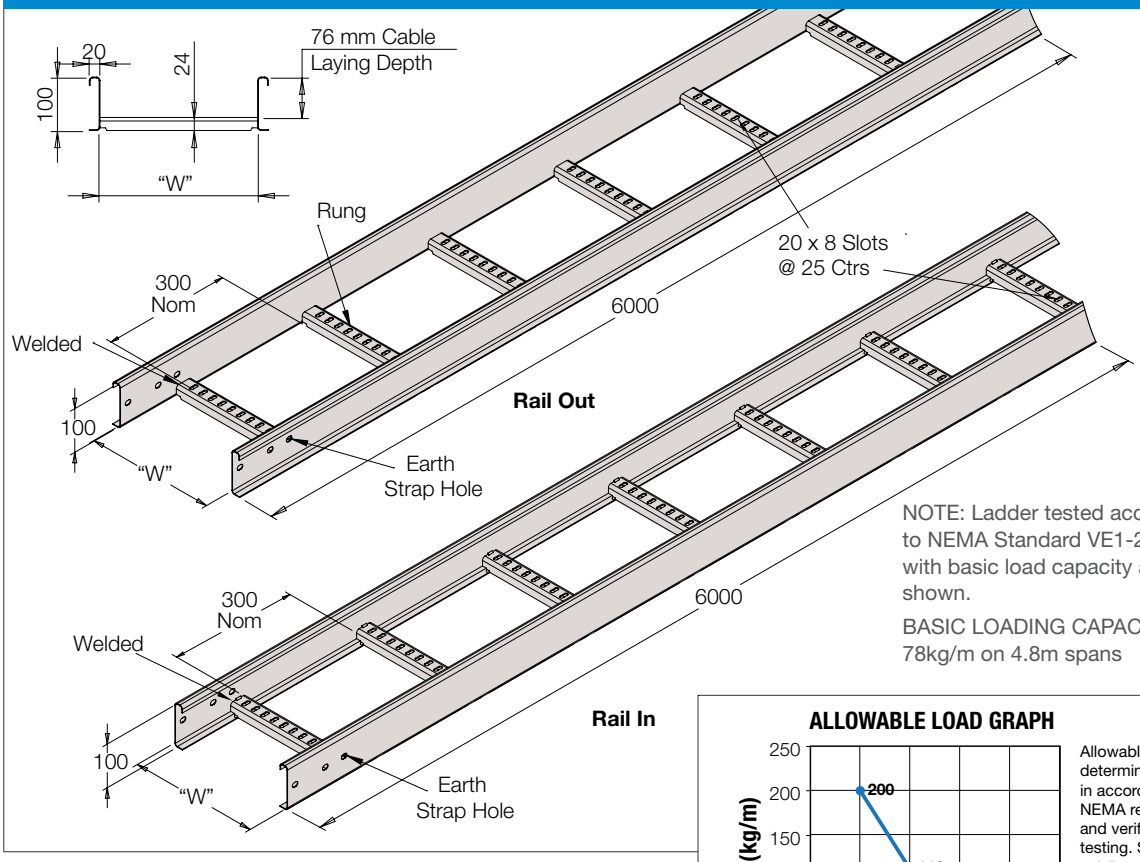
Load capacities and deflection graphs are published by type and can be found on the straight length page for the associated cable ladder system.

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

E.&O.E.

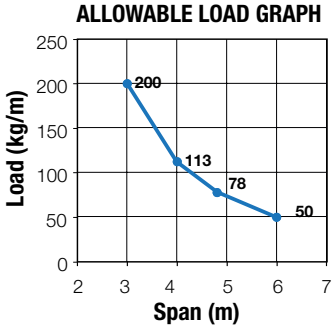
Cable Ladder Medium To Heavy Duty Type 3/50 16A 1.6 mm Stainless Steel 316 Grade

Cable Ladder Type 3/50 Stainless Steel

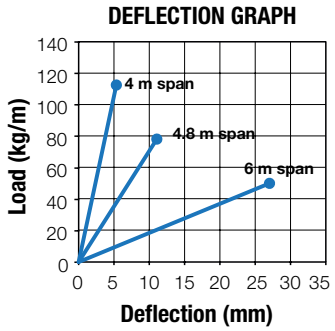


NOTE: Ladder tested according to NEMA Standard VE1-2002 with basic load capacity as shown.

BASIC LOADING CAPACITY
78kg/m on 4.8m spans



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



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

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

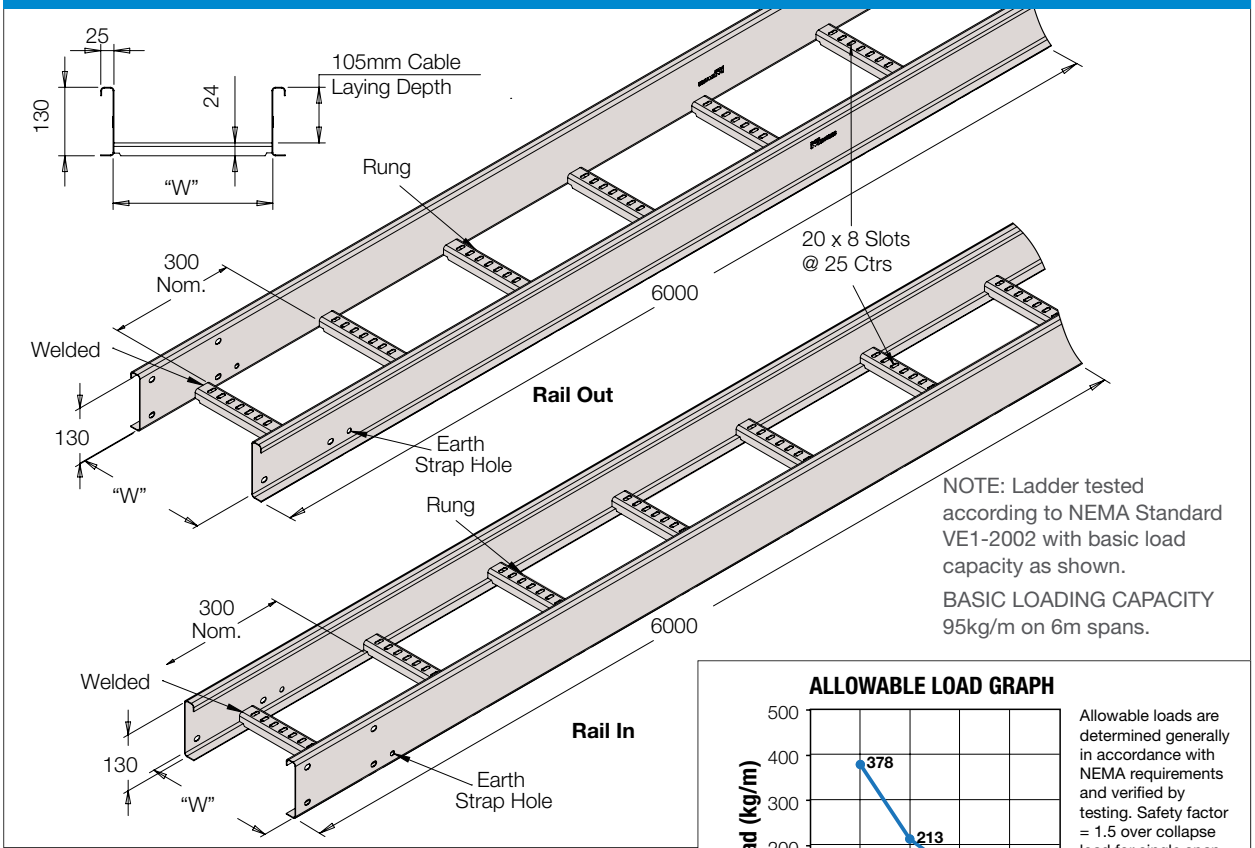
When Ordering

Range	Type	Wide	Material	Fastenings	Rail Direction	Finish
3C	**L**	**15**	**S**	**K**	**RI or RO**	
3C = 3/50 100 mm High Side 1.6 mm 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: 3/50 Cable Ladder 150 mm wide x 6 metre 316 Stainless Steel c/w Splice Plates Bolts and Nuts				

E.&O.E.

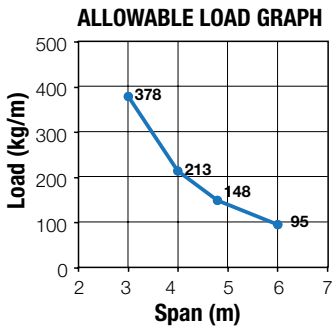
Cable Ladder Heavy Duty Type 4/70L 20B
1.6 mm Stainless Steel 316 Grade

Cable Ladder Type 4/70L Stainless Steel

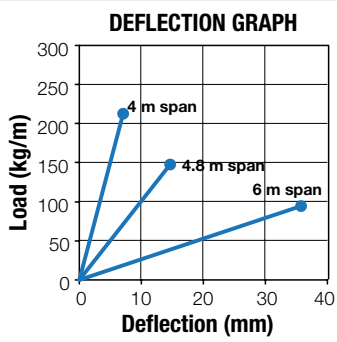


NOTE: Ladder tested according to NEMA Standard VE1-2002 with basic load capacity as shown.

BASIC LOADING CAPACITY 95kg/m on 6m spans.



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



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

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

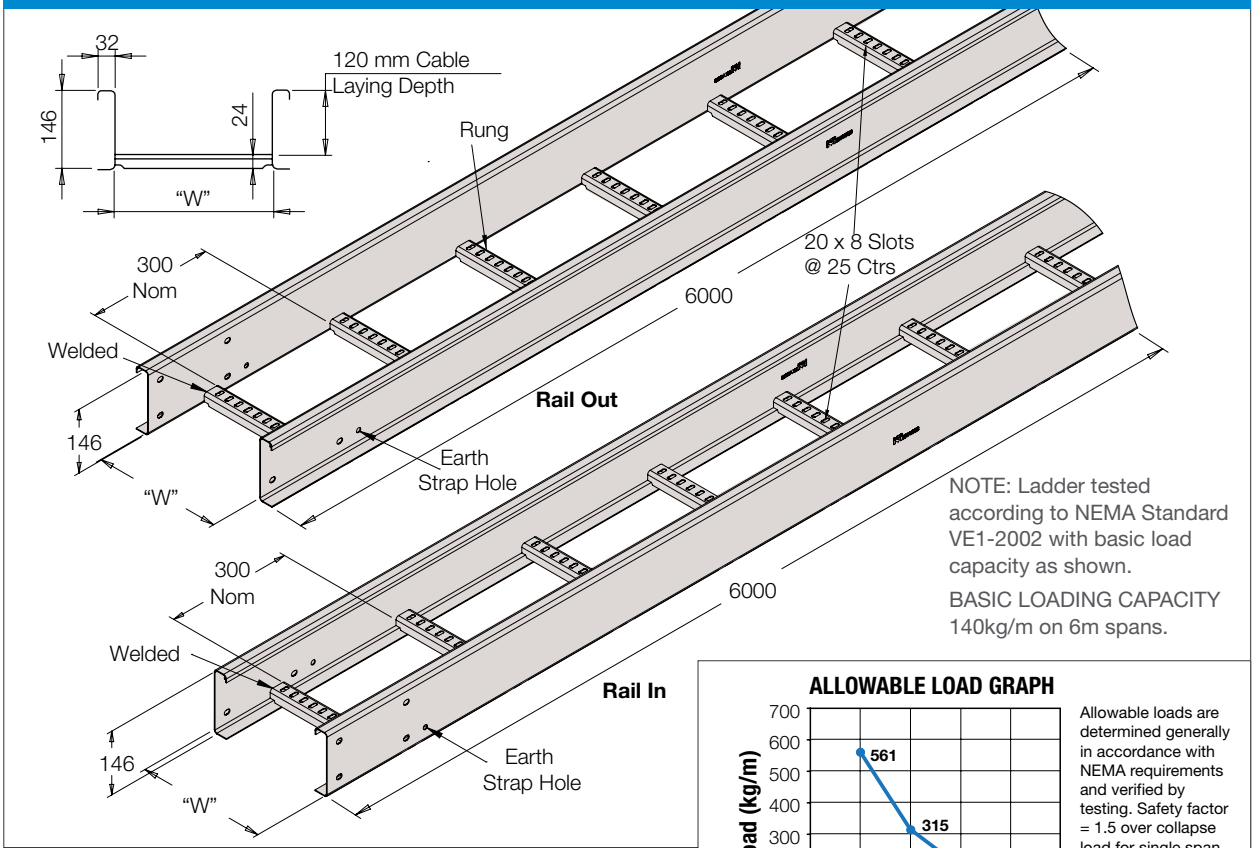
When Ordering

Range	Type	Wide	Material	Fastenings	Rail Direction	Finish
4CL	**L**	**15**	**S**	**K**	**RI or RO**	
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.

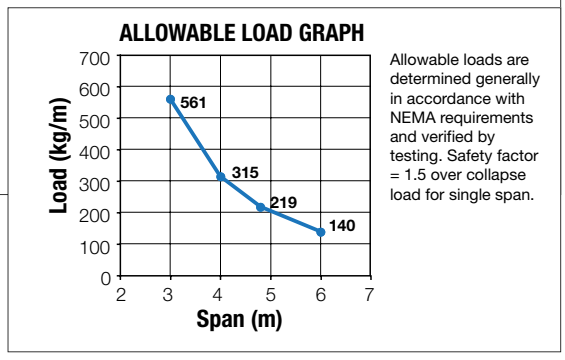
Cable Ladder Extra Heavy Duty Type 5/112 20C 2.0 mm Stainless Steel 316 Grade

Cable Ladder Type 5/112 Stainless Steel

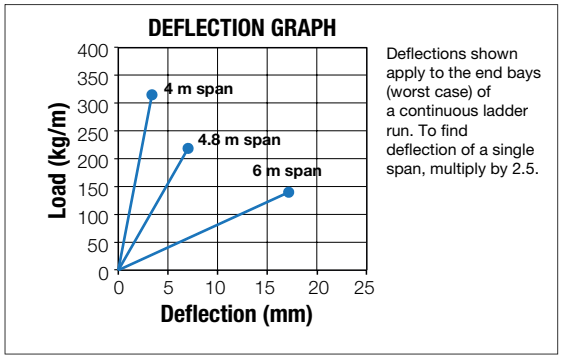


NOTE: Ladder tested according to NEMA Standard VE1-2002 with basic load capacity as shown.

BASIC LOADING CAPACITY 140kg/m on 6m spans.



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



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

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

When Ordering

Range	Type	Wide	Material	Fastenings	Rail Direction	Finish
5C	**L**	**15**	**S**	**K**	**RO**	
5C = 5/112 146 mm High Side 2.0 mm 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: 5/112 Cable Ladder 150 mm wide x 6 metre 316 Stainless Steel c/w Splice Plates Bolts and Nuts.				

E.&O.E.

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.

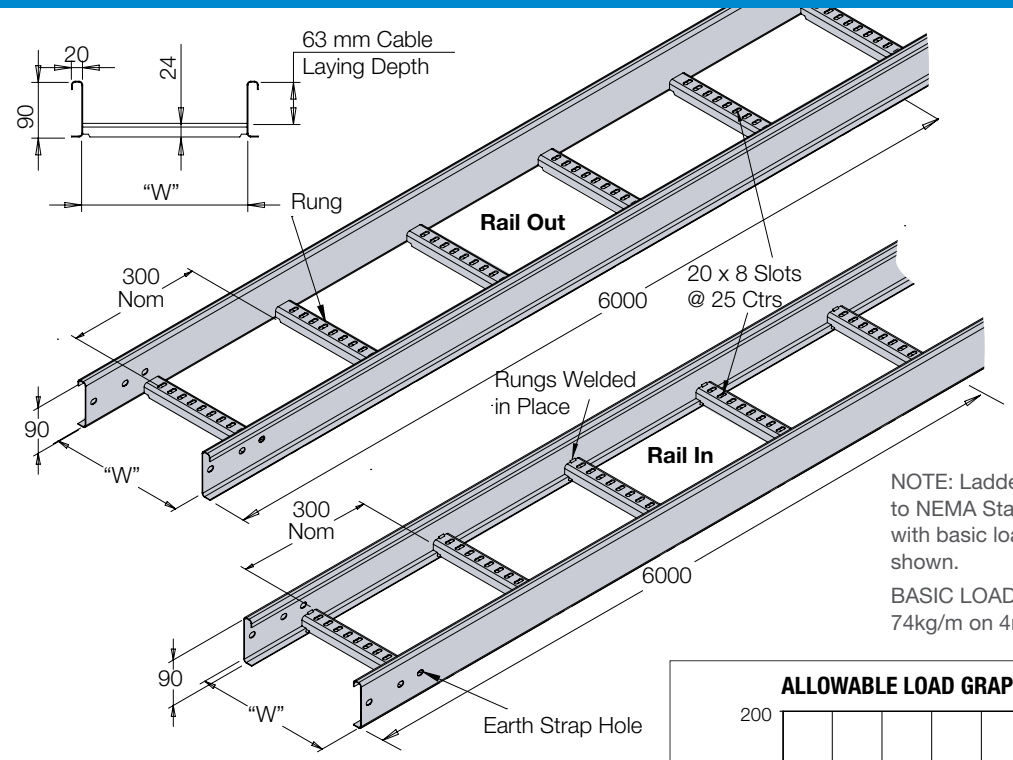
All other listed radius options are made to firm order.

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.

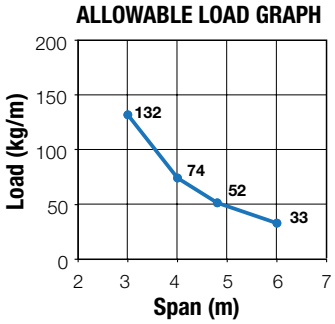
Cable Ladder Medium Duty Type 3/50 12A Grade 6106 – T6 Aluminium

Cable Ladder Type 3/50 Aluminium

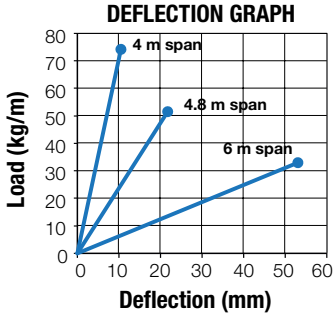


NOTE: Ladder tested according to NEMA Standard VE1-2002 with basic load capacity as shown.

BASIC LOADING CAPACITY
74kg/m on 4m spans



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



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

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

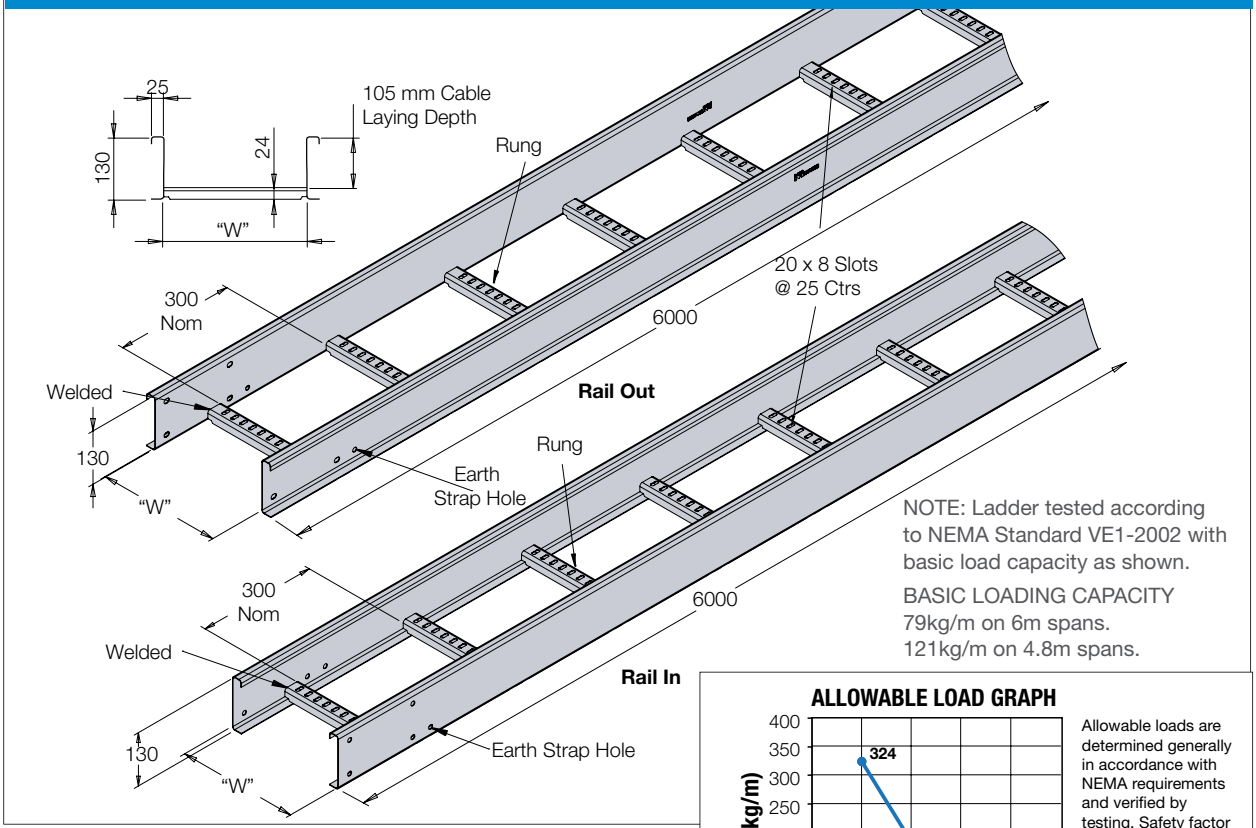
When Ordering

Range	Type	Wide	Material	Fastenings	Rail Direction	Finish
3C	**L**	**15**	**A**	**K**	**RI or RO**	
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				

E.&O.E.

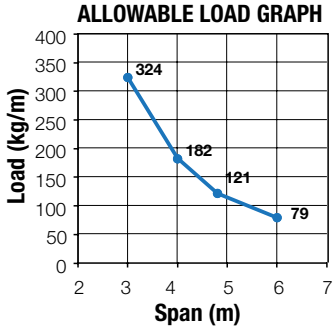
Cable Ladder Heavy Duty Type 4/70 20A/16B Grade 6106 – T6 Aluminium

Cable Ladder Type 4/70 Aluminium

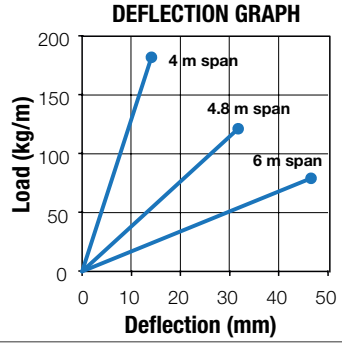


NOTE: Ladder tested according to NEMA Standard VE1-2002 with basic load capacity as shown.

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



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



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

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

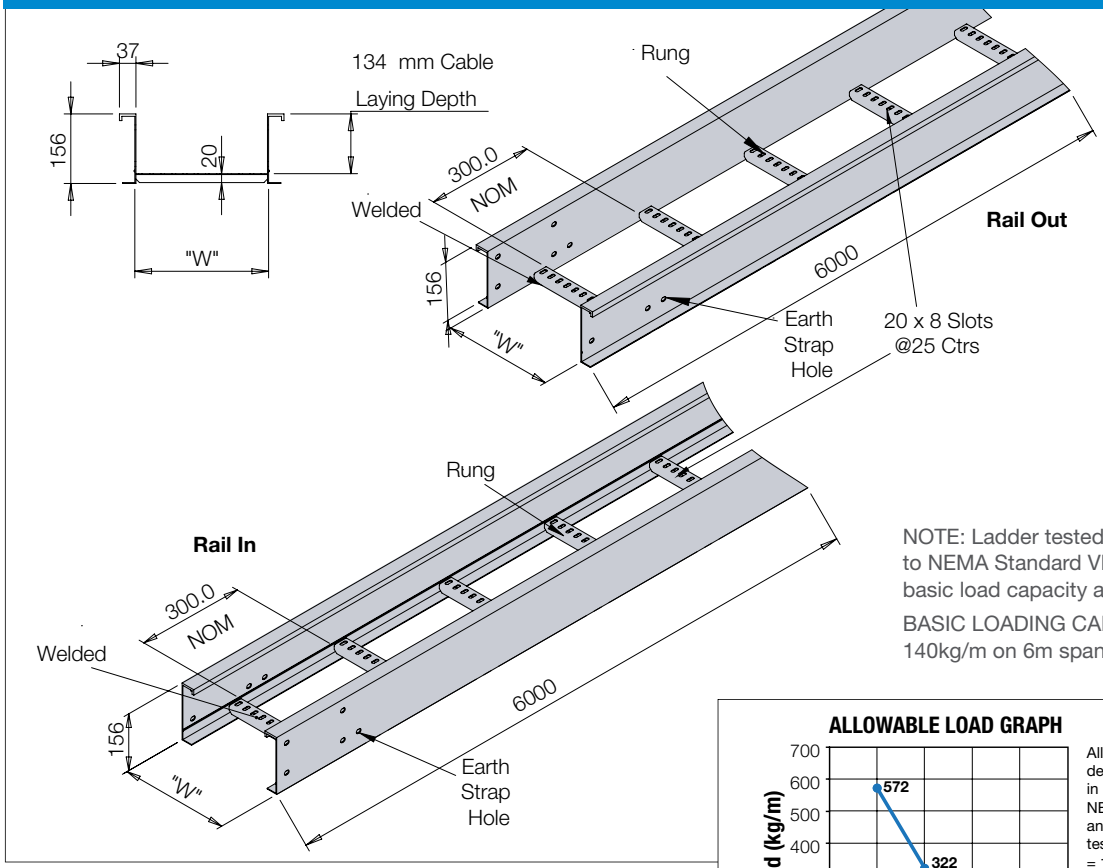
When Ordering

Range	Type	Wide	Material	Fastenings	Rail Direction	Finish
4C	**L**	**15**	**A**	**K**	**RI or RO**	
4C = 4/70 130 mm 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				

E.&O.E.

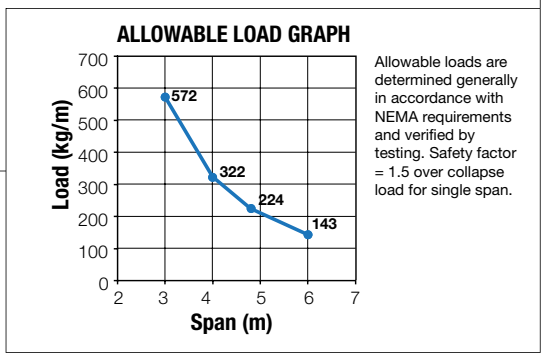
Cable Ladder Extra Heavy Duty Type 5/112 20C Grade 6106 – T6 Aluminium

Cable Ladder Type 5/112 Aluminium

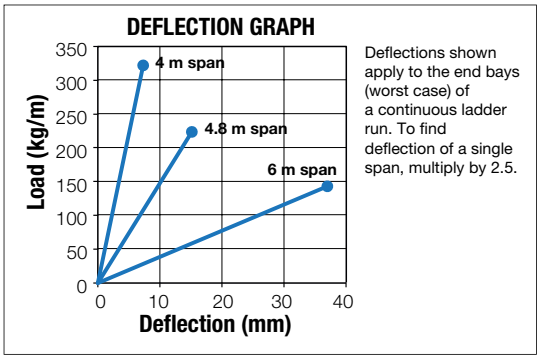


NOTE: Ladder tested according to NEMA Standard VE1-2002 with basic load capacity as shown.

BASIC LOADING CAPACITY
140kg/m on 6m spans



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



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

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

When Ordering

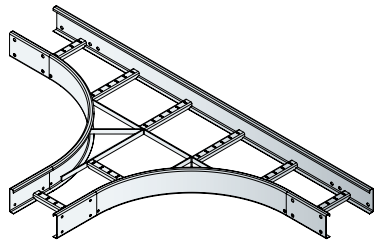
Range	Type	Wide	Material	Fastenings	Rail Direction	Finish
5C	**L**	**15**	**A**	**K**	**RI or RO**	
5C = 5/112 156mm High Side Extrusion	L = Straight 6 metre Length	15 = 150 mm 30 = 300 mm 45 = 450 mm 60 = 600 mm 75 = 750 mm 90 = 900 mm	A = 6106-T6 Aluminium	K = includes all required Splice plates with 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 5/112 Cable Ladder 150mm wide x 6 metre Aluminium Rail In c/w Splice Plates Bolts & Nuts				

E.&O.E.

Notes

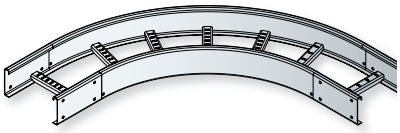
SECTION 5: Structural Cable Ladder Systems

Tee



> 5:3

Bend



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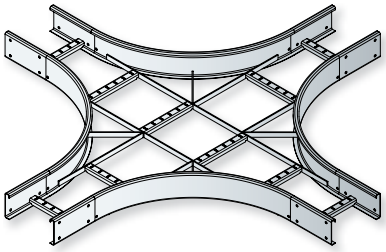
Cross



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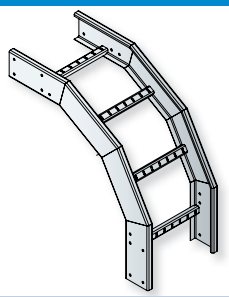
Risers



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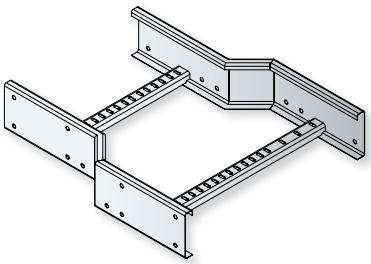
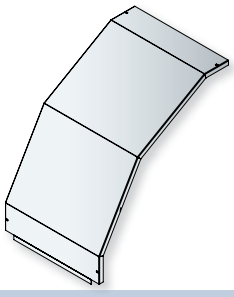
Reducers



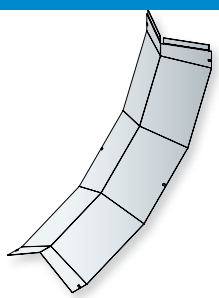
> 5:5

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 were 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.

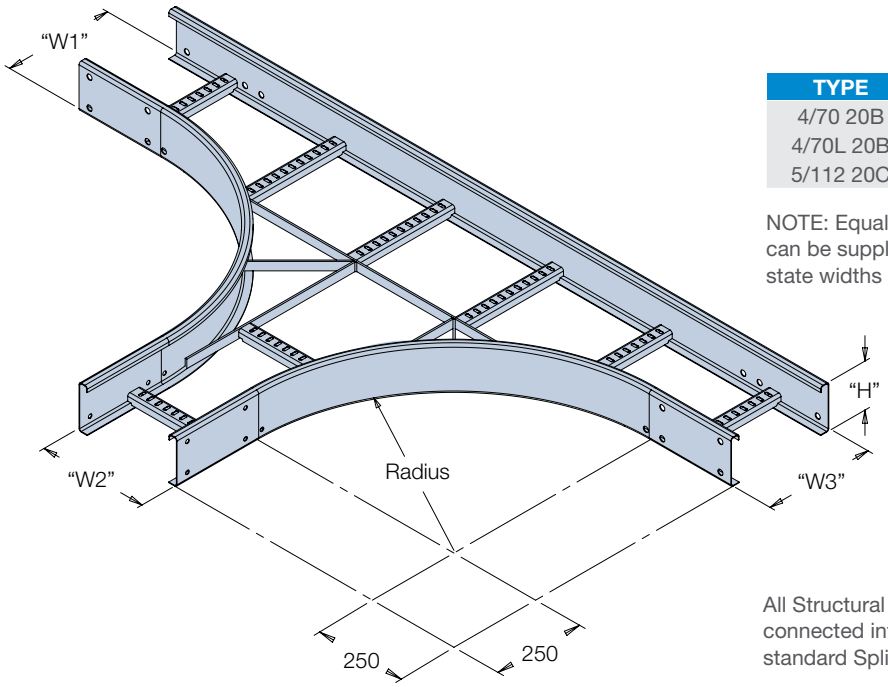
Painted finish available on request.

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



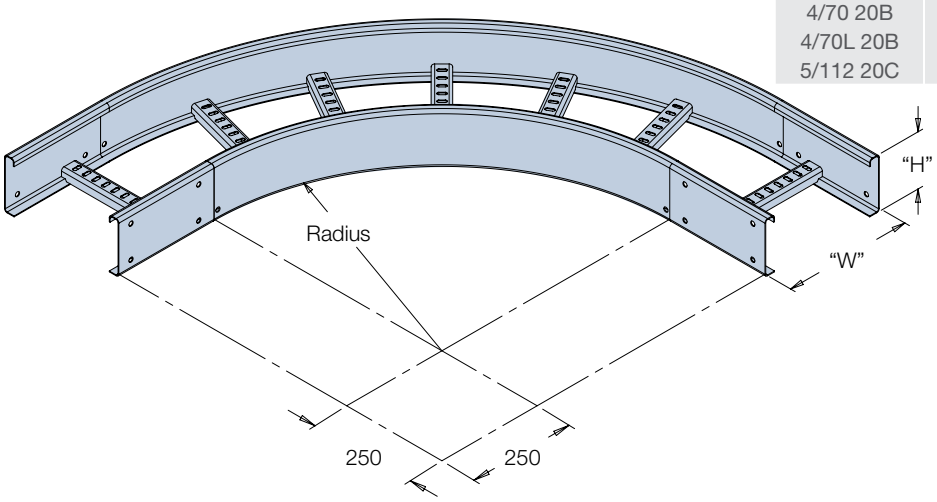
TYPE	HEIGHT
4/70 20B	130 mm
4/70L 20B	130 mm
5/112 20C	146 mm

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
4D	**B**	**15**	**H**	**K**	**RO or RI**	**6**	PC-COL
4D = 4/70 130 mm High 2.0 mm thk. **5D = 5/112 146 mm** High 2.0 mm thk. **4D = 4/70L 130 mm** High 1.6 mm thk	T = Tee Equal B = Bend 90° **4/70 & 5/112** TL = Tee Equal BL = Bend 90° **4/70L and Stainless** (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	K = includes all required Splice Plates, Bolts and nuts	RI = Rail In RO = Rail Out (See Rail In note)	3 = 300 mm 6 = 600 mm 9 = 900 mm **600 mm Std. radius**	PC-COL = paint Painted finish to Kounis standard colour range

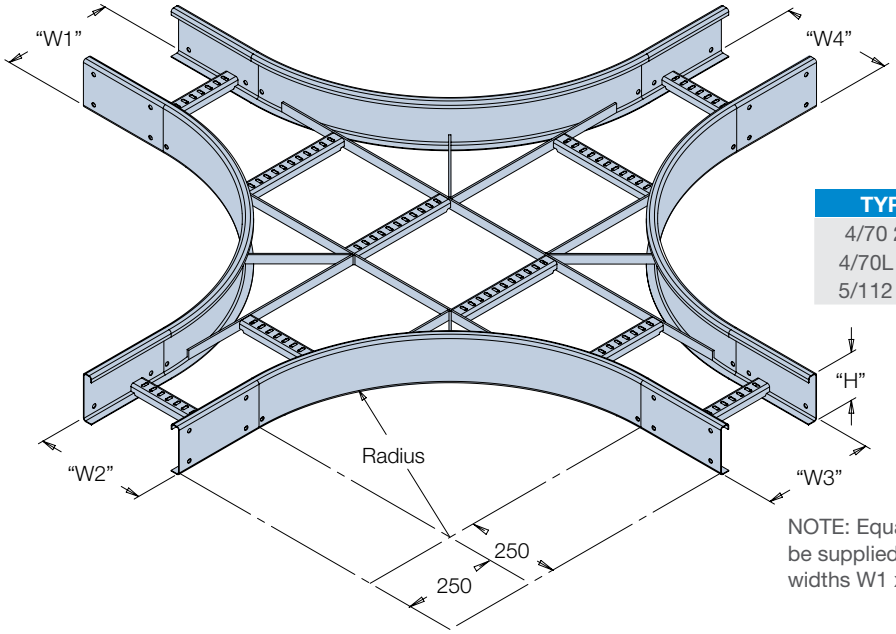
NOTE: Rail In Ladder (RI) is a Kounis standard and will not show in a supply code. All Rail Out ladder will have a RO suffix shown in all supply codes.

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

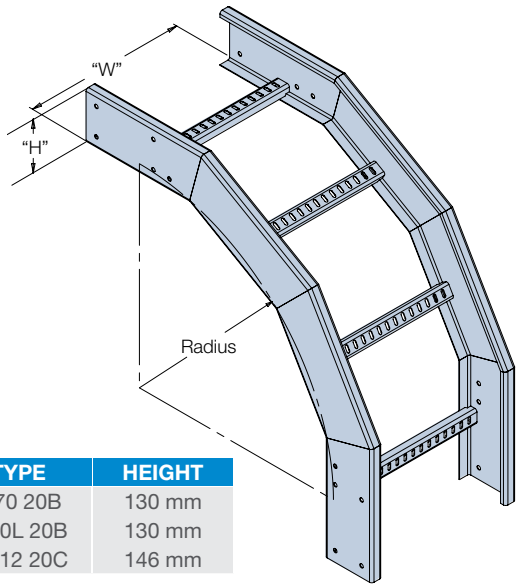
Cross



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

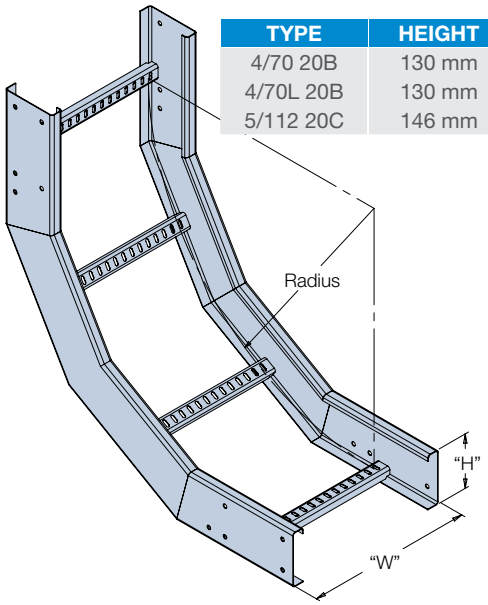
NOTE: Equal or unequal tees can be supplied. When ordering state widths W1 x W2 x W3 x W4

External Riser



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

Internal Riser



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
4D **4D = 4/70 130 mm** High 2.0 mm thk. **5D = 5/112 146 mm** High 2.0 mm thk. **4D = 4/70L 130 mm** High 1.6 mm thk	**RI** RI = Internal Riser 90° RX = External Riser 90° C = Cross **4/70 & 5/112** RIL= Internal Riser 90° RXL = External Riser90° CL = Cross **4/70L and Stainless** (See Ordering Note)	**15** 15 = 150 mm 30 = 300 mm 45 = 450 mm 60 = 600 mm 75 = 750 mm 90 = 900 mm	**H** H = Mild Steel Hot Dip Galv S = 316 Stainless Steel A = Aluminium	**K** K = includes all required Splice Plates, Bolts and nuts	**RI or RO** RI = Rail In RO = Rail Out (See Rail In note)	**6** 3 = 300 mm 6 = 600 mm 9 = 900 mm **600 mm** **Std. radius**	PC-COL PC-COL = paint Painted finish to Kounis standard colour range

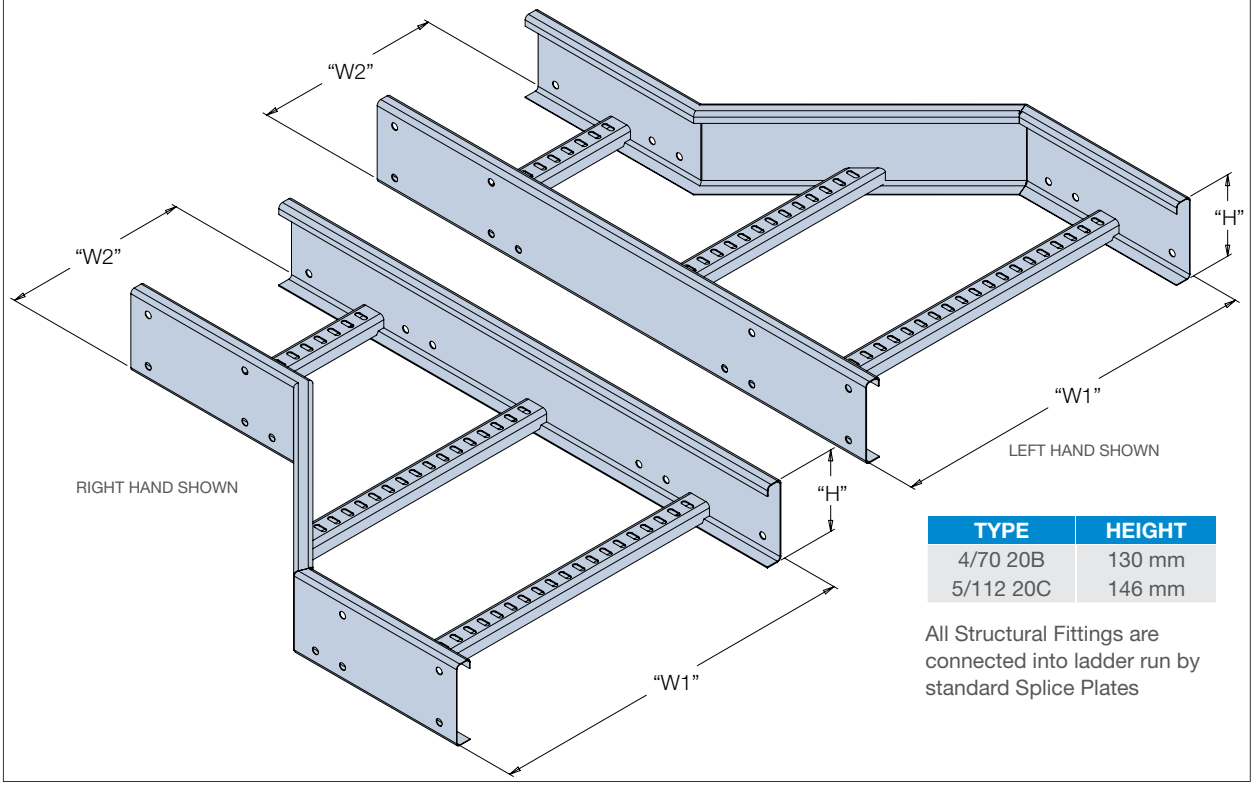
NOTE: Rail In Ladder (RI) is a Kounis standard and will not show in a supply code. All Rail Out ladder will have a RO suffix shown in all supply codes.

ORDERING EXAMPLE SHOWN: 4/70 Structural Cable Ladder 90° Internal Riser 150 mm wide HDG Rail Out 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 alternative 150 mm 45° Riser.

E.&O.E.

Structural Cable Ladder Fittings

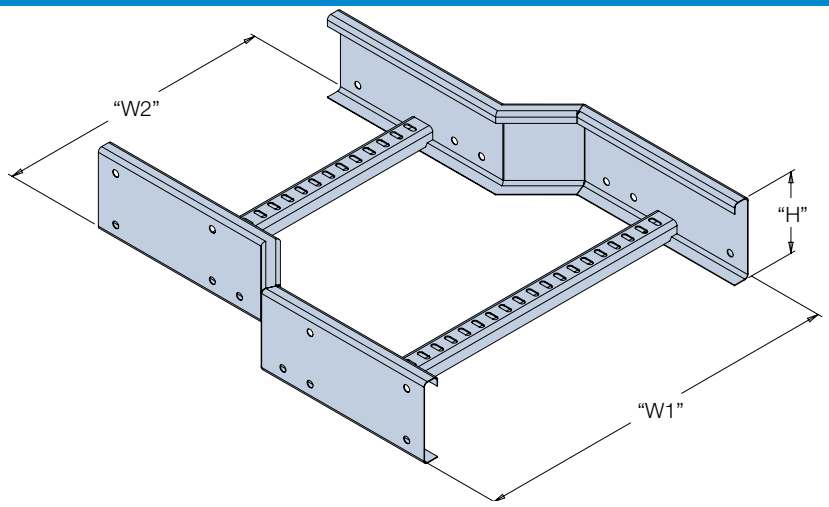
Offset Reducer



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
4D	**SR**	**3015**	**H**	**K**	**RI or RO**	**6**	PC-COL
4D = 4/70 130 mm High 2.0 mm thk. **5D = 5/112 146 mm** High 2.0 mm thk. **4D = 4/70L 130 mm** High 1.6 mm thk	SR = Straight Reducer RR = Right Reducer LR = Left Reducer **4/70 & 5/112** SRL = Straight Reducer RRL = Right Reducer LRL = Left Reducer **4/70L and Stainless** (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	K = includes all required Splice Plates, Bolts and nuts	RI = Rail In RO = Rail Out (See Rail In note)	3 = 300 mm 6 = 600 mm 9 = 900 mm **600 mm Std. radius**	PC-COL = paint Painted finish to Kounis standard colour range

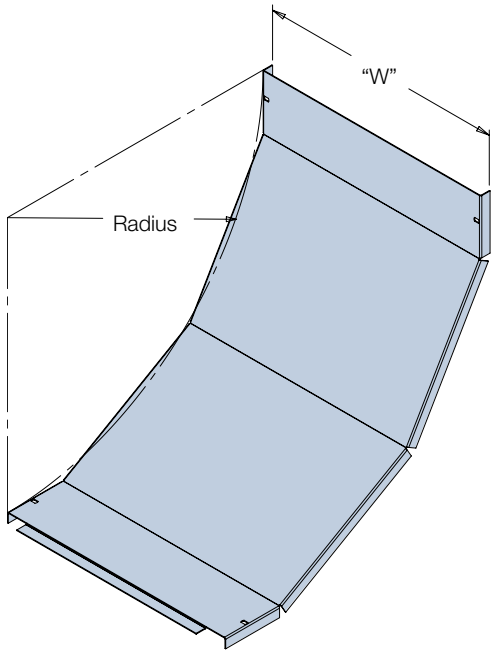
NOTE: Rail In Ladder (RI) is a Kounis standard and will not show in a supply code. All Rail Out ladder will have a RO suffix shown in all supply codes.

ORDERING EXAMPLE SHOWN: 4/70 Structural Cable Ladder Straight Reducer 300 to 150 mm wide HDG c/w Splice Plates Bolts and Nuts. Painted Finish to specification colour.

E.&O.E.

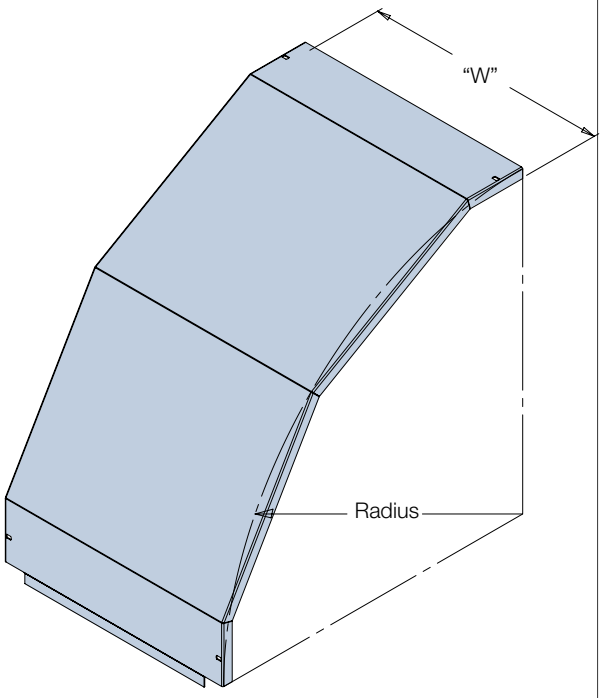
Structural Cable Ladder Flat Fitting Covers

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

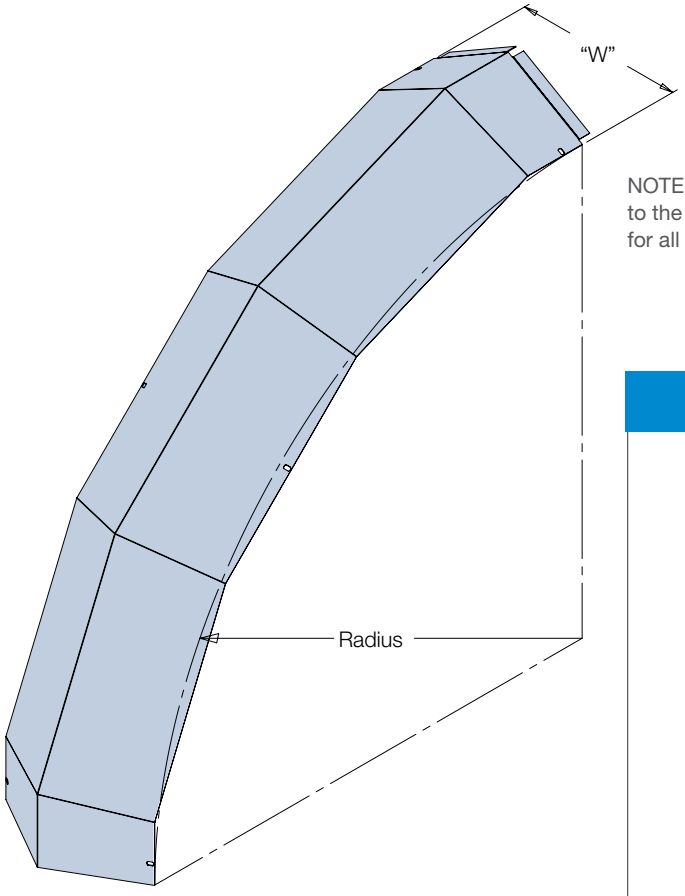
Range	Type	Fitting	Wide	Thickness	Std. Finish	Fastenings	Side Rail	Radius	Finish
4D 4D = 4/70 130 mm High 2.0 mm thk Structural 5D = 5/112 146 mm High 2.0 mm thk Structural	**FC** FC = Flat Cover	**RX** RI = Internal RX = External Riser 90° (see ordering note)	**15** 15 = 150 mm 30 = 300 mm 45 = 450 mm 60 = 600 mm 75 = 750 mm 90 = 900 mm	**H** L = 0.6 mm thk. M = 1.2 mm thk. H = 1.6 mm thk.	**H** G = Galvabond H = Hot Dip Galv S= 316 Stainless Steel A = Aluminium P = Painted	**K** K = includes all required attachment hooks	**RI or RO** RI = Rail In RO = Rail Out	**6** 3 = 300 mm 6 = 600 mm 9 = 900 mm **600 mm Std. radius**	**PC-COL** 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.

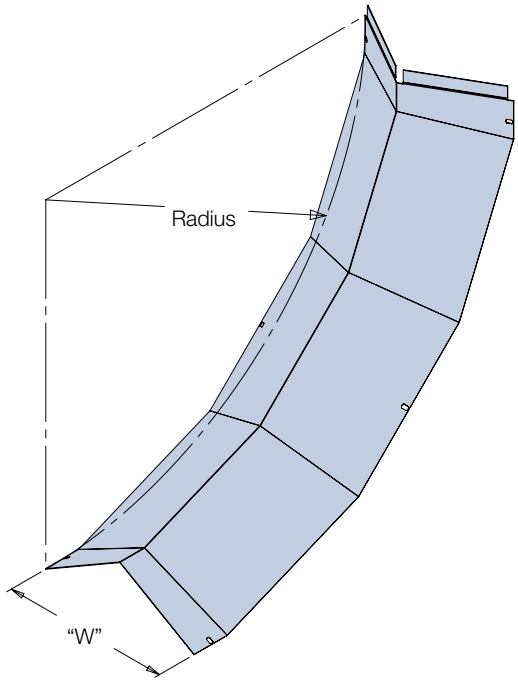
Structural Cable Ladder Peak Fitting Covers

External Riser Peak 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.

Internal Riser Peak Cover



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
4D	**PC**	**RX**	**15**	**H**	**H**	**K**	**RI or RO**	**6**	**PC-COL**
4D = 4/70 130 mm High 2.0 mm thk Structural 5D = 5/112 146 mm High 2.0 mm thk Structural	PC = Peak 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 **600 mm Std. radius**	Painted finish to Kounis standard colour range

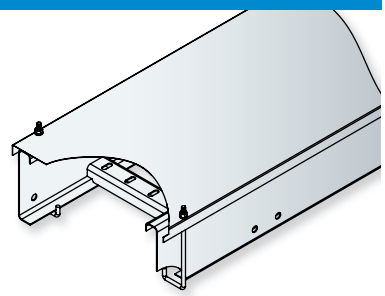
NOTE: Rail In Ladder (RI) is a Kounis standard and will not show in a supply code. All Rail Out ladder will have a RO suffix shown in all supply codes.

ORDERING EXAMPLE SHOWN: 4/70 Structural Cable Ladder 90° External Riser Peak 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.

Notes

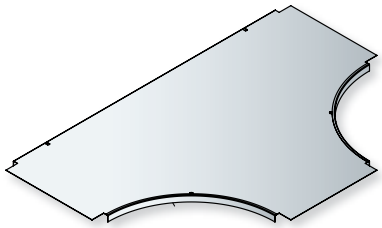
SECTION 6: Cable Ladder Covers

Flat Cover



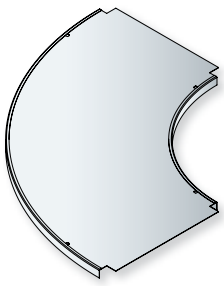
> 6:3

Tee Flat Cover



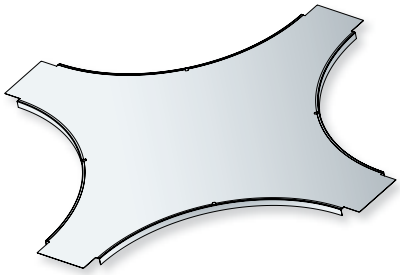
> 6:4

Bend Flat Cover



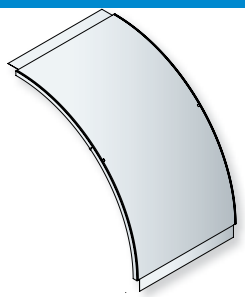
> 6:4

Cross Flat Cover



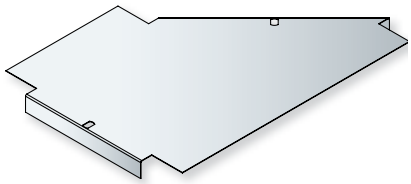
> 6:4

Risers Flat Cover



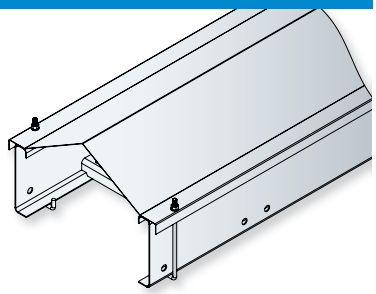
> 6:5

Reducers Flat Cover



> 6:5

Peak Cover



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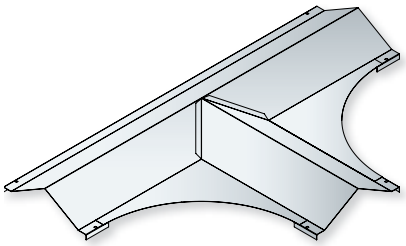
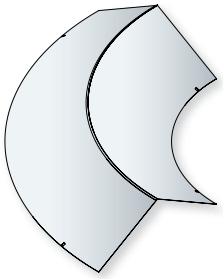
Tee Peak Cover



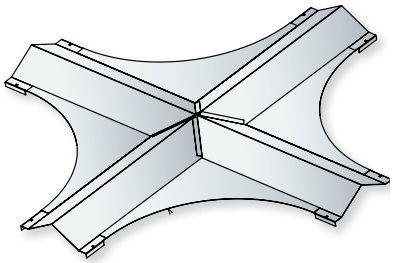
> 6:7

Bend Peak Cover



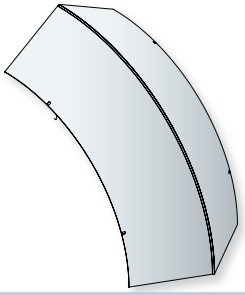
> 6:7

Cross Peak Cover



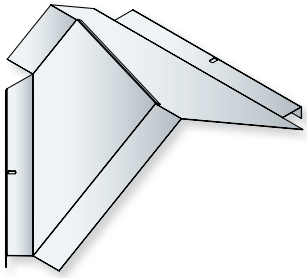
> 6:7

Risers Peak Cover



> 6:8

Reducers Peak Cover



> 6:8

E.&O.E.

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 be1.6 mm thick Hot Dip Galvanised.

Painted finish available on request.

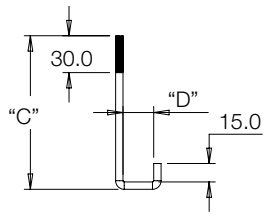
Kounis Group Standard Colour Range

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.

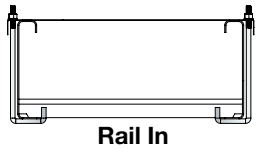
Cable Ladder Flat Covers

Flat Cover Hook Bolt Fixing

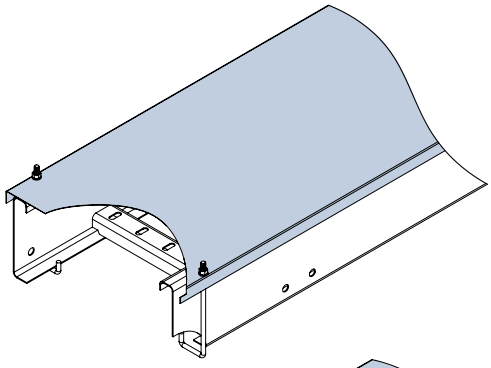
Hook Bolt Details
Material Stainless Steel C/W
Nylock Nut and Washer

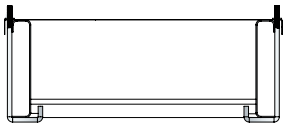


Code	LADDER	DIM "C"	DIM "D"
3CHB	3/50	125	25
4CHB	4/70	155	35
5CHB	5/112	170	35

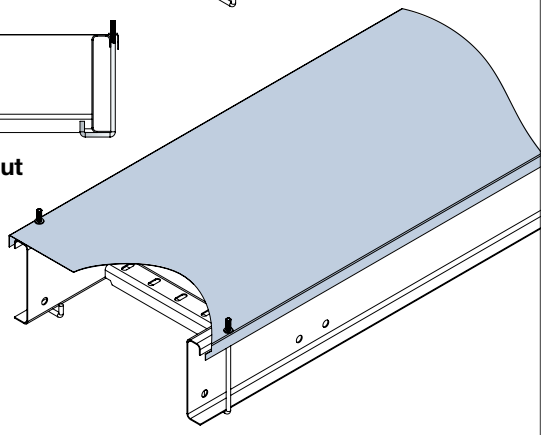


Rail In

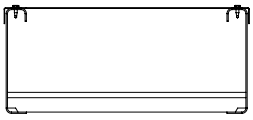




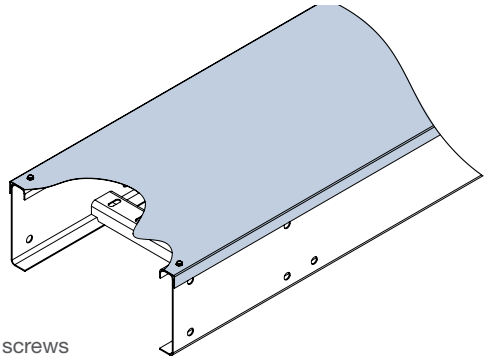
Rail Out



Flat Cover Snug Fit Fixing



Rail In



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
3	**FC**	**15**	**L**	**G**	**K**	**RI or RO**	**SF**	**PC-COL**
2 = 2/30 3 = 3/50 4 = 4/70 5 = 5/112	FC = Flat Cover FCV = Flat Cover with louvre vents	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	SF = Snug Fit (to order) Note: no hook 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 RO suffix.

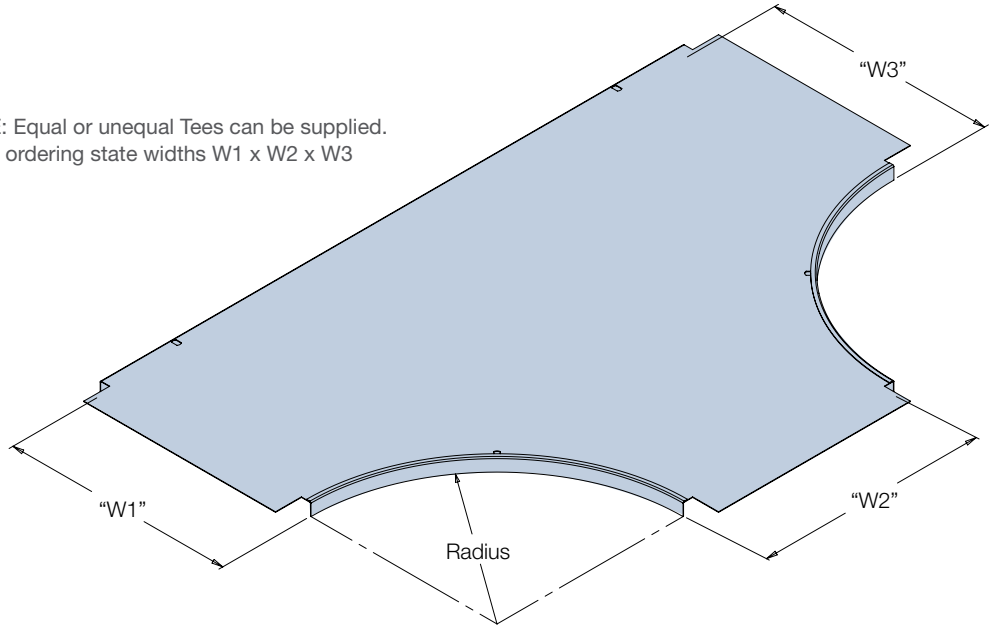
ORDERING EXAMPLE: 3/50 Cable Ladder Flat Cover 150 mm wide Light Duty Galvabond c/w attachment hooks. Painted finish to specification colour.

E.&O.E.

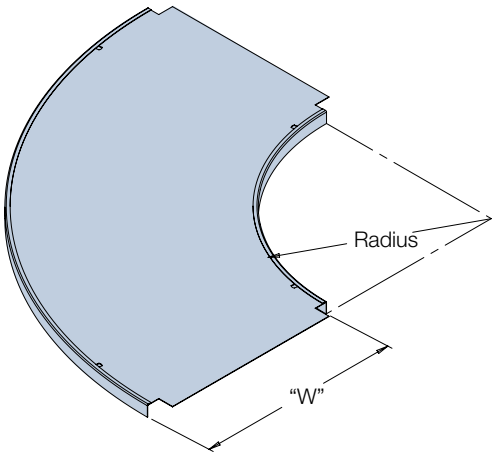
Cable Ladder Flat Cover Fittings

Tee Cover

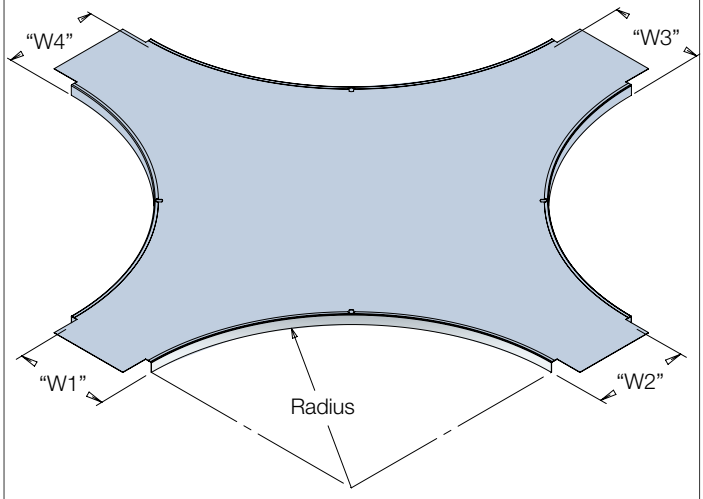
NOTE: Equal or unequal Tees can be supplied.
When ordering state widths W1 x W2 x W3



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
3	**FC**	**T**	**15**	**L**	**G**	**K**	**RI or RO**	**3**	**SF**	**PC-COL**
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

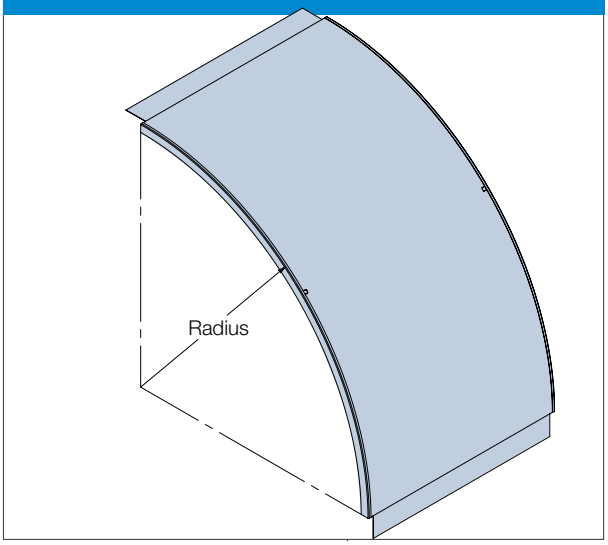
NOTE: Rail In Ladder (RI) is a Kounis standard and will not show in a supply code. All Rail Out ladder will have a RO suffix shown in all supply codes.

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.

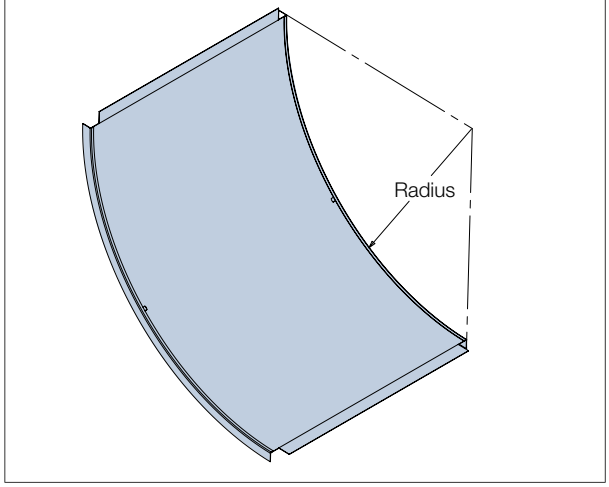
E.&O.E.

Cable Ladder Flat Cover Fittings

External Riser Cover



Internal Riser Cover



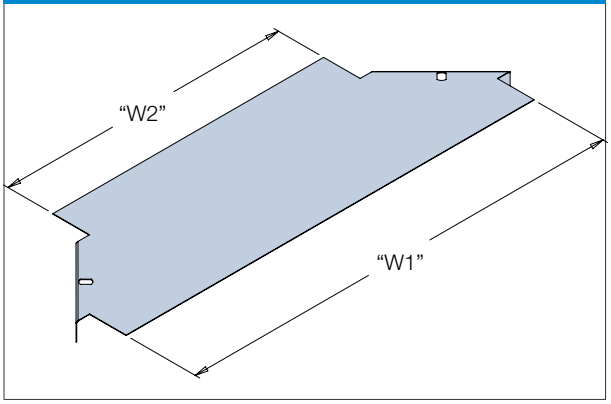
When Ordering

Range	Type	Fitting	Size	Thickness	Std.Finish	Fastenings	Rail Direction	Radius	Fit	Finish
3	**FC**	**RX**	**15**	**L**	**G**	**K**		**3**	**SF**	**PC-COL**
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.

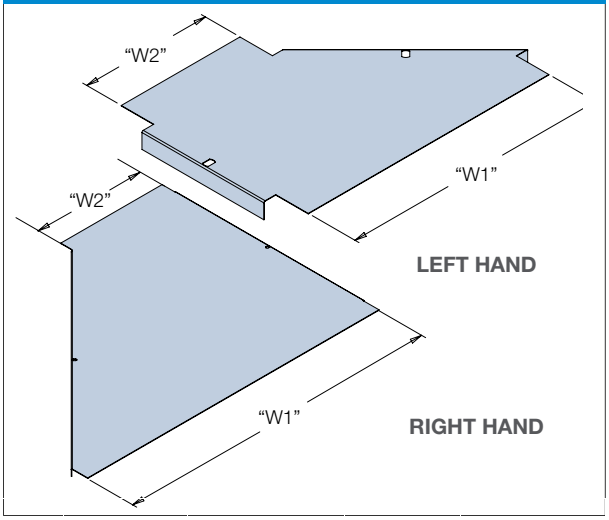
ORDERING EXAMPLE SHOWN: 3/50 Cable Ladder 90° External Riser Flat Cover 150 mm wide Light Duty Galvabond 300 mm rad c/w attachment hooks. Painted finish to specification colour.

Straight Reducer Cover



NOTE: When ordering state widths W1 x W2

Offset Reducer Cover



When Ordering

Range	Type	Fitting	Size	Thickness	Std.Finish	Fastenings	Rail Direction	Fit	Finish
3	**FC**	**SR**	**3015**	**L**	**G**	**K**		**SF**	**PC-COL**
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.

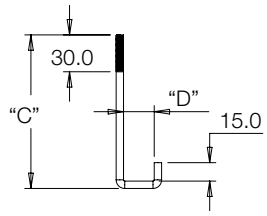
ORDERING EXAMPLE SHOWN: 3/50 Cable Ladder Straight Reducer Flat Cover 150 – 300 mm Wide Light Duty Galvabond c/w attachment hooks. Painted finish to specification colour.

E.&O.E.

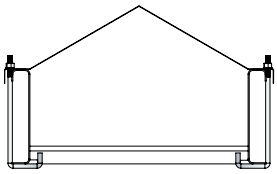
Cable Ladder Peaked Covers

Peaked Cover Hook Bolt Fixing

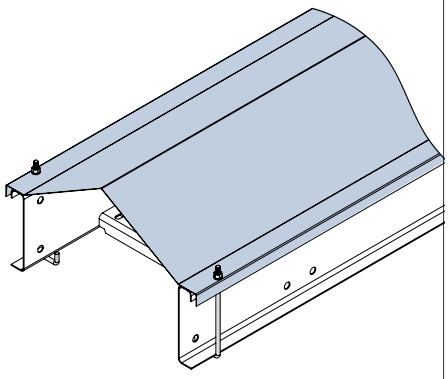
Hook Bolt Details
Material Stainless Steel C/W
Nylock Nut and Washer

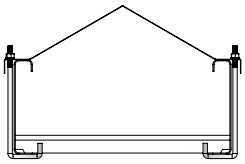


Code	LADDER	DIM "C"	DIM "D"
3CHB	3/50	125	25
4CHB	4/70	155	35
5CHB	5/112	170	35

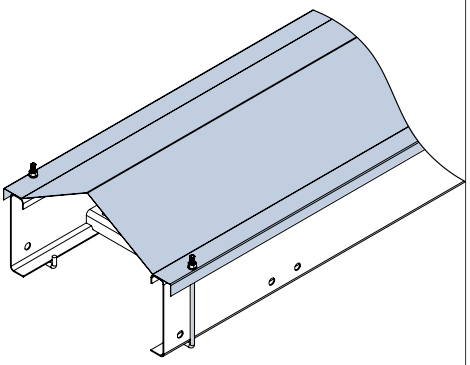


Rail Out

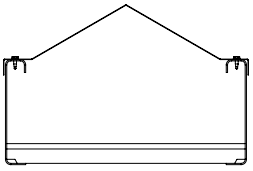




Rail In

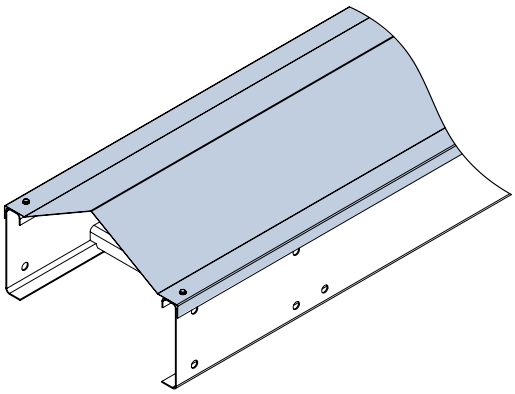


Peaked Cover Snug Fit Fixing



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
3	**PC**	**15**	**L**	**G**	**K**	**RI or RO**	**SF**	**PC-COL**
2 = 2/30 3 = 3/50 4 = 4/70 5 = 5/112	PC = Peak Cover PCV = Peak Cover with louvre vents	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)	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 RO suffix show in all supply codes.

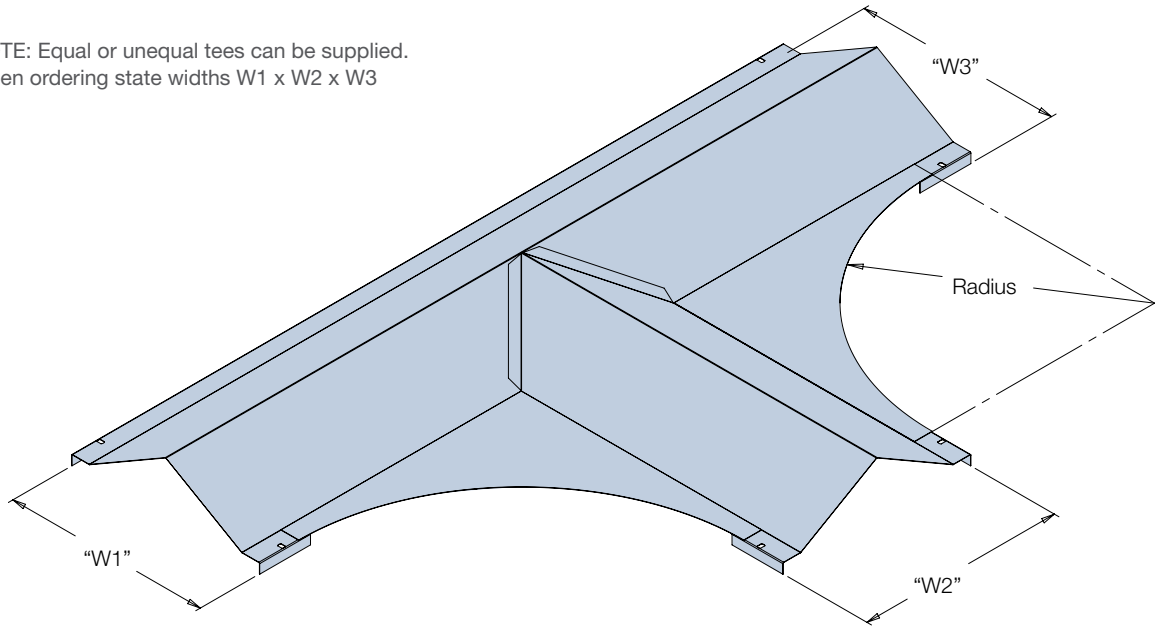
ORDERING EXAMPLE SHOWN: 3/50 Cable Ladder Peak Cover 150 mm Wide Light Duty Galvabond c/w attachment hooks. Painted finish to specification colour.

E.&O.E.

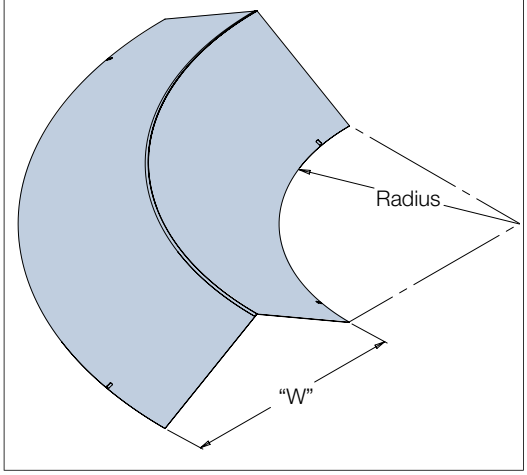
Cable Ladder Peak Cover Fittings

Tee Cover

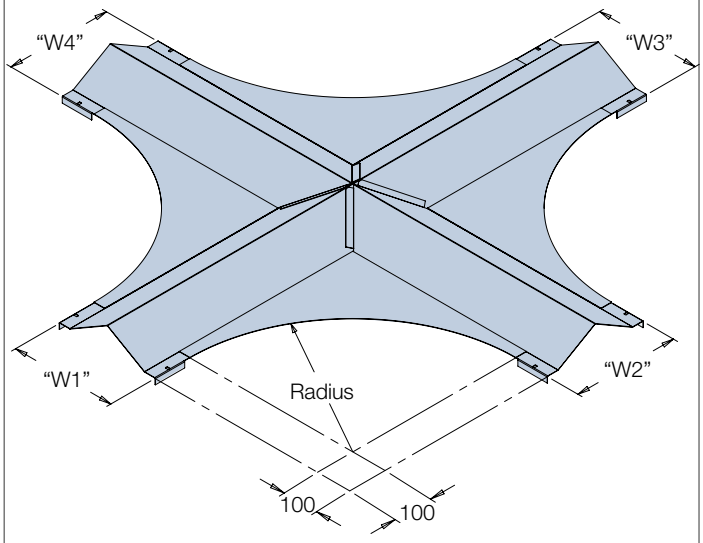
NOTE: Equal or unequal tees can be supplied.
When ordering state widths W1 x W2 x W3



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
3	**PC**	**T**	**15**	**L**	**G**	**K**	**RO**	**3**	**SF**	**PC-COL**
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) NOTE: No hooks required	PC-COL = Paint Painted finish to Kounis standard colour range

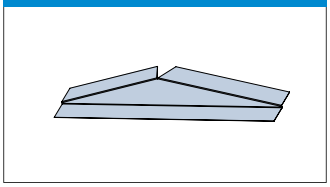
NOTE: Rail In Ladder (RI) is a Kounis standard and will not show in a supply code. All Rail Out ladder will have a RO suffix shown in all supply codes.

ORDERING EXAMPLE SHOWN: 3/50 Cable Ladder Tee Peak Cover 150 mm Wide Light Duty Galvabond 300mm rad c/w attachment hooks. Painted Finish to specification colour.

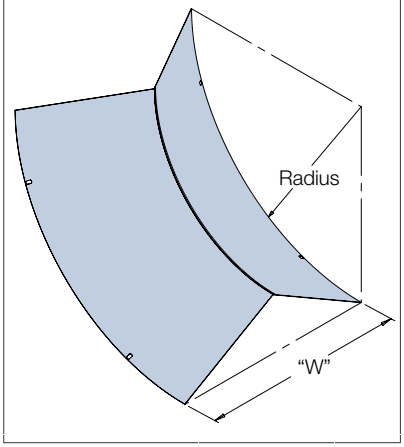
E.&O.E.

Cable Ladder Peak Cover Fittings

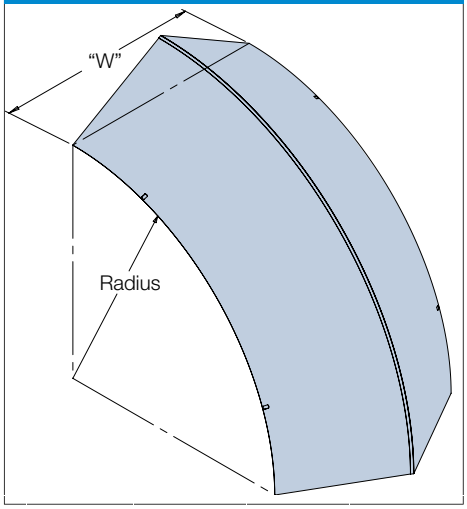
Peak Cover End Cap



Internal Riser Cover



External Riser Cover



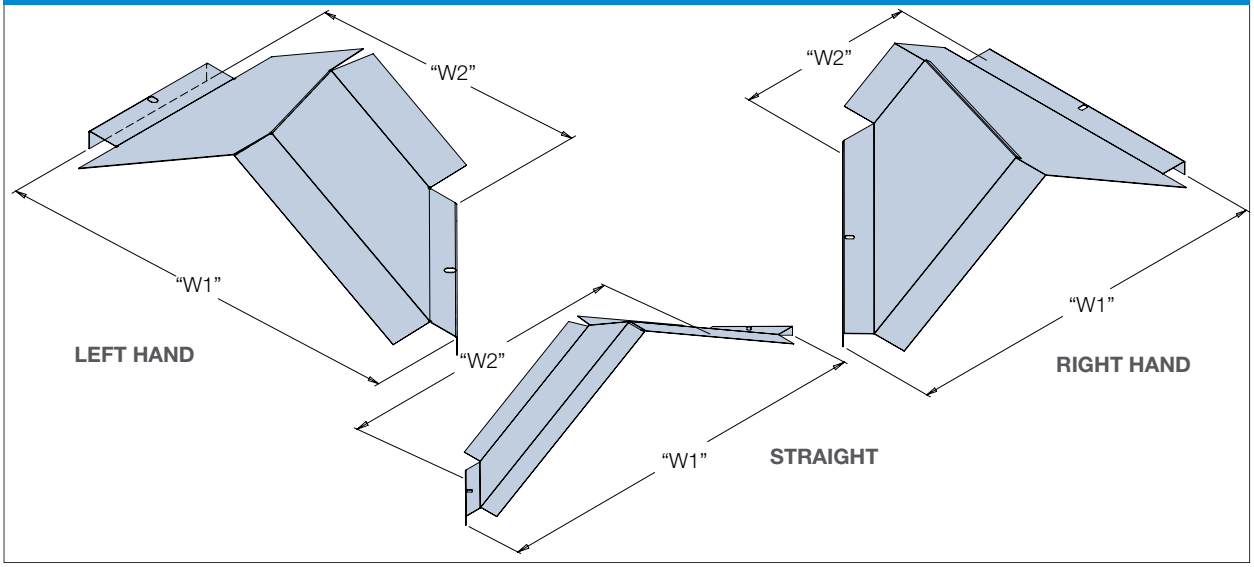
When Ordering

Range	Type	Fitting	Size	Thickness	Std.Finish	Fastenings	Rail Direction	Radius	Fit	Finish
3	**PC**	**RX**	**15**	**L**	**G**	**K**		**3**	**SF**	**PC-COL**
2= 2/30 3= 3/50 4= 4/70 5= 5/112	PC= Peak Cover	RX= External Riser RI= Internal Riser E= End Cap 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= 1.5 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 & 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
3	**PC**	**SR**	**3015**	**L**	**G**	**K**		**SF**	**PC-COL**
2 = 2/30 3 = 3/50 4 = 4/70 5 = 5/112	PC = Peak Cover	S = 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 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)	SF = Snug Fit (to order) NOTE: No hooks required	PC-COL = Paint Painted Finish to Kounis standard colour range

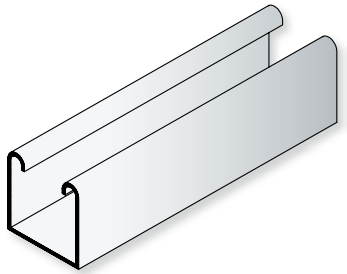
NOTE: Reducer Covers fit both Rail-In and Rail-Out ladder systems.

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.

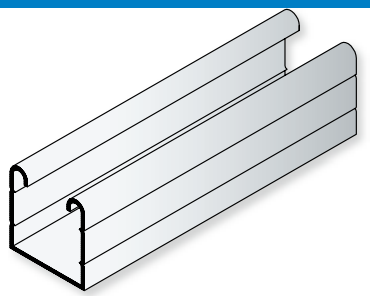
SECTION 7: K-Strut Support Systems

K-1000 Channel



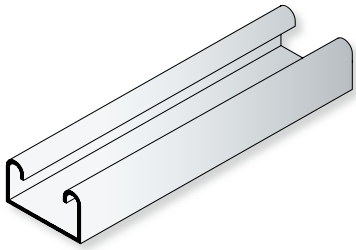
> 7:3

K-2000 Channel



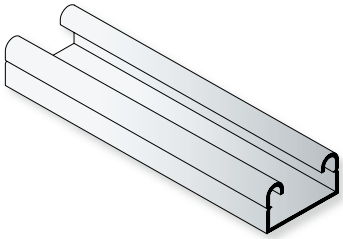
> 7:4

K-3300 Channel



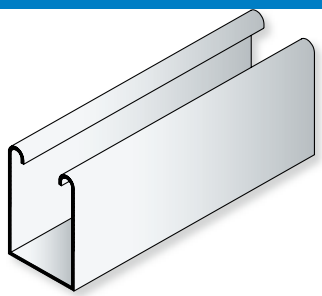
> 7:5

K-4000 Channel



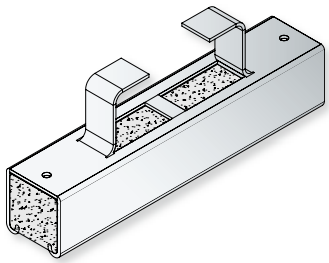
> 7:6

K-5500 Channel



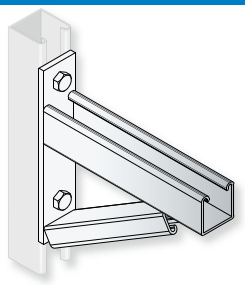
> 7:7

Concrete Insert Channel



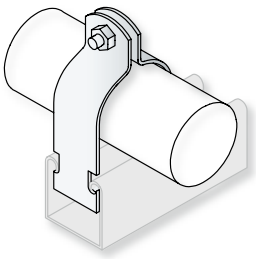
> 7:8

Cantilever Brackets



> 7:10

Pipe Cable & Conduit Clamps



> 7:11

K-Strut Fittings

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.

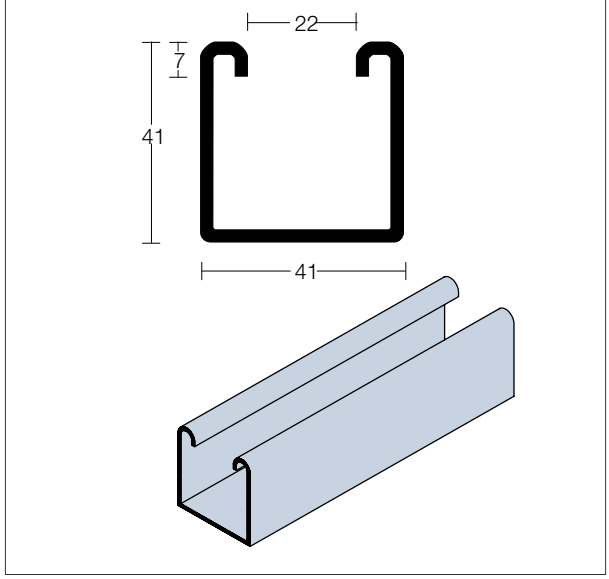
Product Weights

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

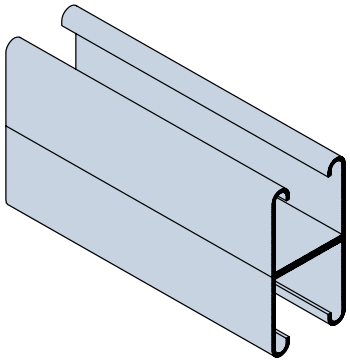
K1000 Series Channel

- 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

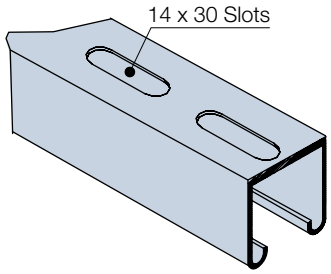
K1000



K1001



K1000T



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

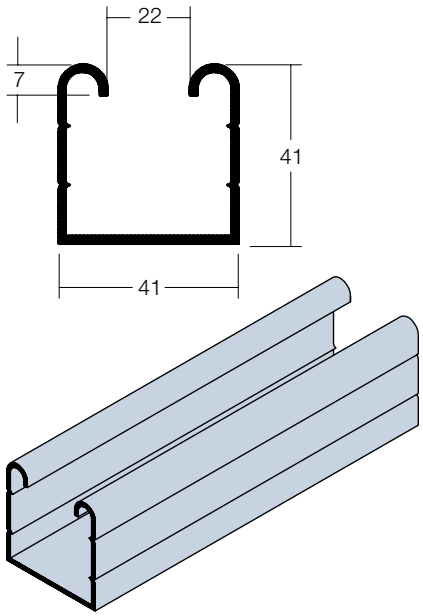
TECHNICAL DETAILS K1000			MASS 2.6 kg/m											
DATA	**SPAN (mm)**		**600**	**750**	**1000**	**1500**	**2000**	**2500**	**3000**	**3500**	**4000**	**4500**	**5000**	**6000**
BEAM LOADING	Max Allowed Uniform Load kN	K1000	7.5	6.0	4.5	3.0	2.2	1.8	1.5	1.3	1.1	1.0	0.9	0.7
		K1001	13.3	13.3	12.7	8.5	6.4	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			

E.&O.E.

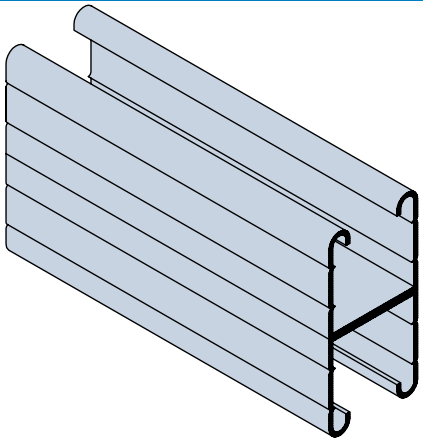
K2000 Series Channel

- 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

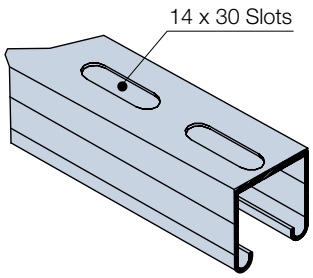
K2000



K2001



K2000T



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

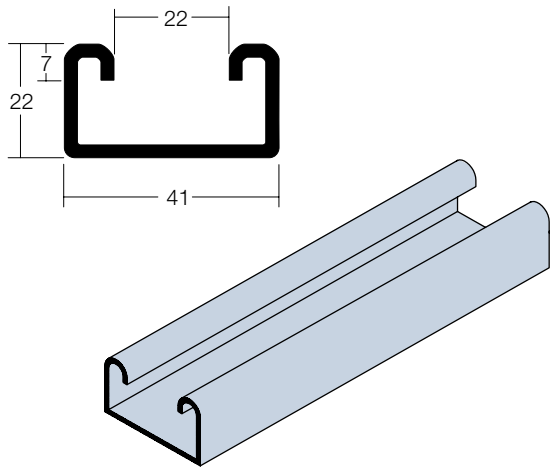
TECHNICAL DETAILS K2000			MASS 1.8 kg/m											
DATA	**SPAN (mm)**		**600**	**750**	**1000**	**1500**	**2000**	**2500**	**3000**	**3500**	**4000**	**4500**	**5000**	**6000**
BEAM LOADING	Max Allowed Uniform Load kN	K2000	4.5	3.6	2.7	1.8	1.3	1.1	0.9	0.8	0.7	0.6	0..5	0.4
		K2001	8.0	8.0	7.6	5.1	3.8	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.

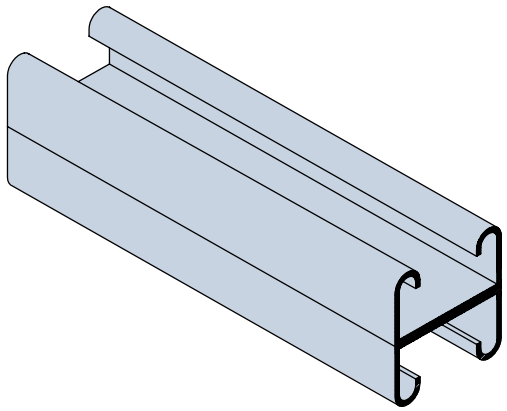
K3300 Series Channel

- 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

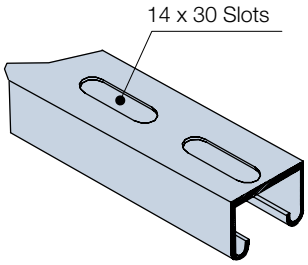
K3300



K3301



K3300T



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

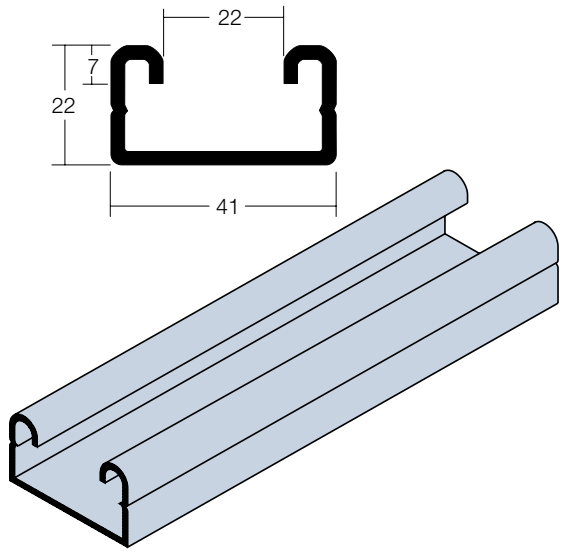
TECHNICAL DETAILS K3300			MASS 1.9 kg/m										
DATA	**SPAN (mm)**		**600**	**750**	**1000**	**1500**	**2000**	**2500**	**3000**	**3500**	**4000**	**4500**	**5000**	**6000**
BEAM LOADING	Max Allowed Uniform Load kN	K3300	2.7	2.2	1.6	1.1	0.8	0.6	0.5	0.5	0.4	0.4	0.3	0.3
		K3301	7.5	6.0	4.5	3.0	2.3	1.8	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.

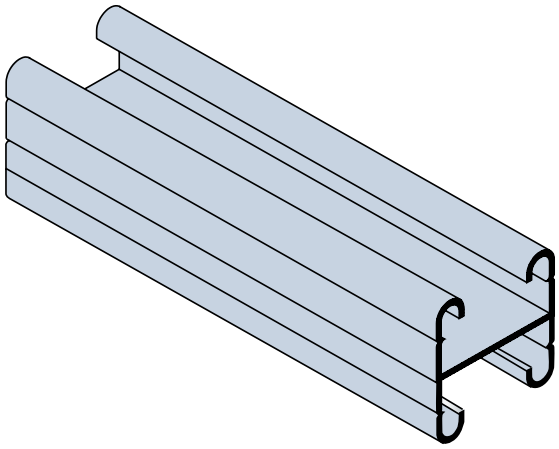
K4000 Series Channel

- 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

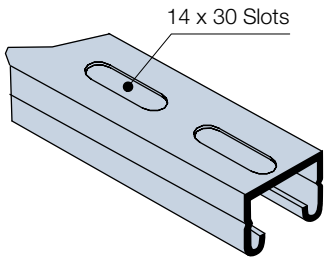
K4000



K4001



K4000T



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.

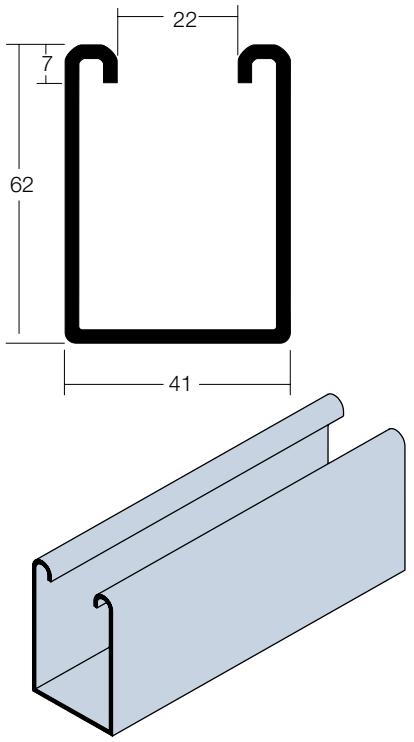
TECHNICAL DETAILS K4000			MASS 1.3 kg/m										
DATA	**SPAN (mm)**		**600**	**750**	**1000**	**1500**	**2000**	**2500**	**3000**	**3500**	**4000**	**4500**	**5000**	**6000**
BEAM LOADING	Max Allowed Uniform Load kN	K4000	1.6	1.3	1.0	0.7	0.5	0.4	0.3	0.3	0.2	0.2	0.2	0.2
		K4001	4.5	3.6	2.7	1.8	1.4	1.1	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.

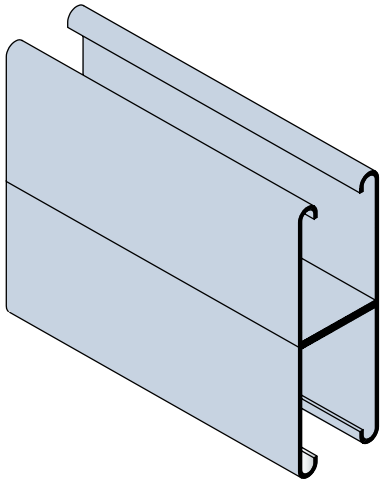
K5500 Series Channel

- 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

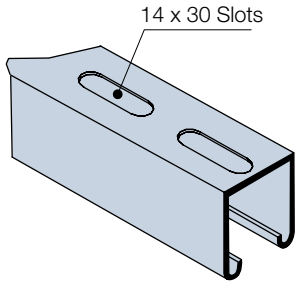
K5500



K5501



K5500T



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.

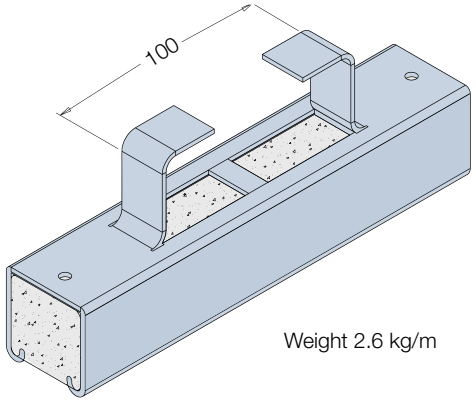
TECHNICAL DETAILS K5500			MASS 3.4 kg/m											
DATA	**SPAN (mm)**		**600**	**750**	**1000**	**1500**	**2000**	**2500**	**3000**	**3500**	**4000**	**4500**	**5000**	**6000**
BEAM LOADING	Max Allowed Uniform Load kN	K5500	14.3	11.4	8.6	5.7	4.3	3.4	2.9	2.4	2.1	1.9	1.7	1.4
		K5501	19.5	19.5	17.3	11.5	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.

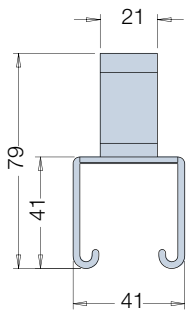
Concrete Insert Channel

- 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

K1000CIH

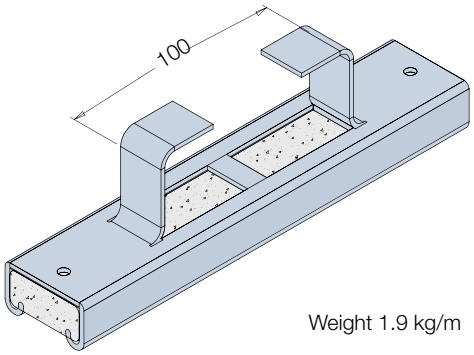


Weight 2.6 kg/m

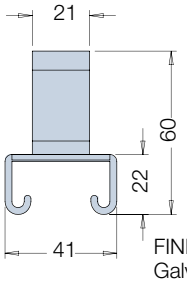


FINISH: Hot Dipped Galvanised only

K3300CIH

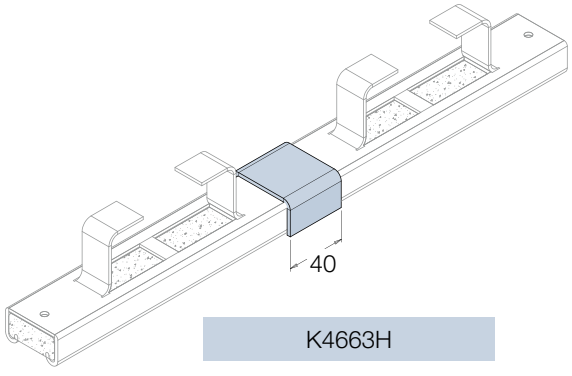


Weight 1.9 kg/m

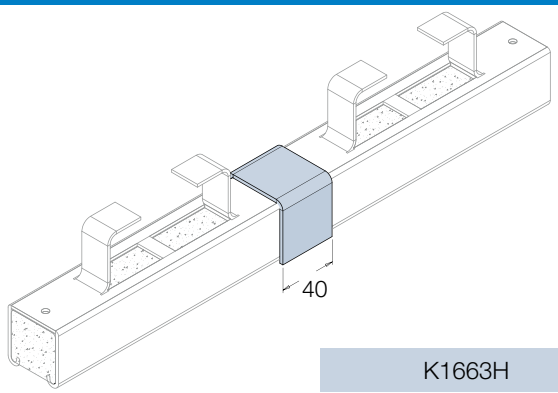


FINISH: Hot Dipped Galvanised only

Joining Plate



K4663H



K1663H

FINISH: Hot Dipped Galvanised only

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;

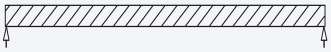
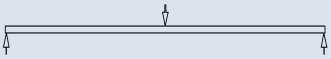
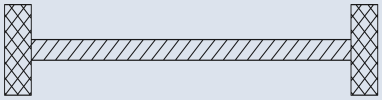
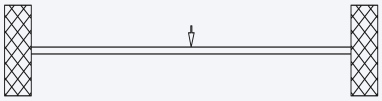
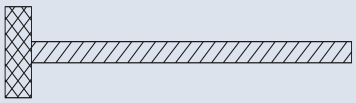
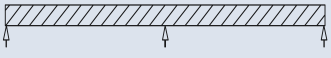
K-Strut Series K1000 Channel in a uniform load over a 600 mm span has a max allowable load of 7.5 kN resulting in a 1 mm deflection at full load.

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**

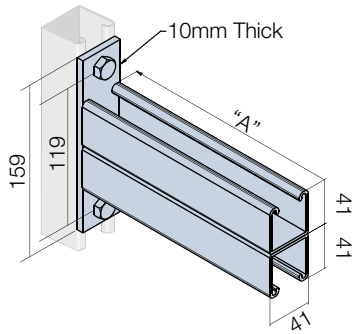
Uniform deflection at full load **1 mm x 0.80** central concentrated deflection factor = **0.8 mm**

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

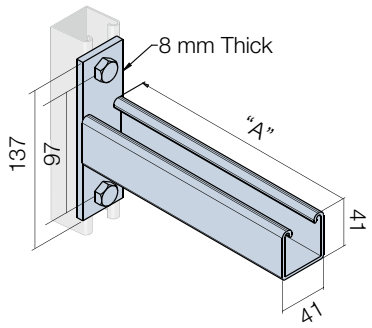
Cantilever Brackets

Flat Plate Double Strut Bracket



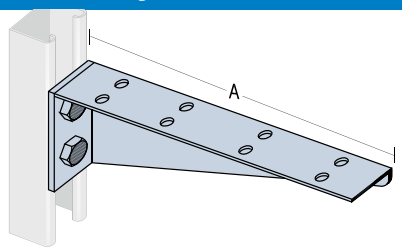
CODE	A	UNIFORM DESIGN LOAD kN
K2542	350	3.7
K2543	497	1.9
K2544	663	1.5
K2545	762	1.1
K2546	914	1.0

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

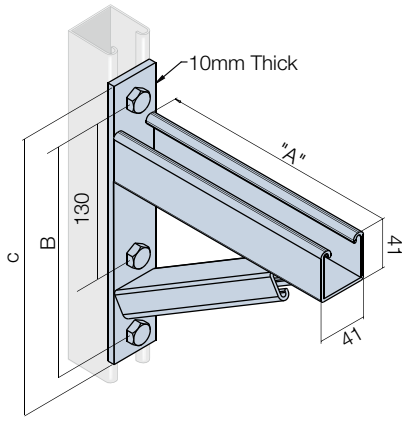
Tray Arm Bracket



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

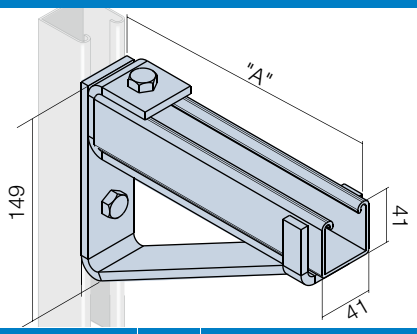
Also available in Galvabond when ordering add suffix G

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
H	Hot Dip Galvanised
S	316 Stainless Steel

When Ordering add suffix to end of product code

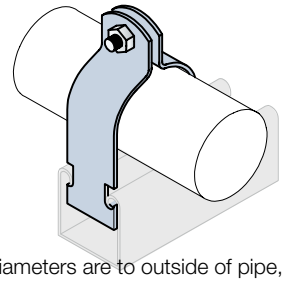
Mounting plates have 14 mm diameter holes.

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



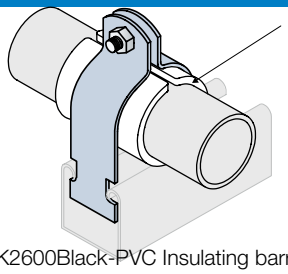
NOTE: Diameters are to outside of pipe, cable or insulation. Clamps are supplied with Pan Head screws and nuts.

CODE	FIT DIA.
K5-8	8 mm
K5-10	10 mm
K5-12	12 mm
K5-16	16 mm
K5-18	18 mm
K5-20	20 mm
K5-21	21 mm
K5-22	22 mm
K5-25	25 mm
K5-27	27 mm
K5-29	29 mm
K5-32	32 mm
K5-34	34 mm
K5-35	35 mm
K5-38	38 mm
K5-42	42 mm
K5-43	43 mm
K5-44	44 mm
K5-48	48 mm
K5-49	49 mm

CODE	FIT DIA.
K5-51	51
K5-54	54
K5-57	57
K5-60	60
K5-64	64
K5-67	67
K5-70	70
K5-76	76
K5-79	79
K5-83	83
K5-86	86
K5-89	89
K5-92	92
K5-95	95
K5-98	98
K5-102	102
K5-105	105
K5-108	108
K5-111	111
K5-114	114

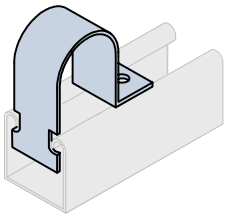
CODE	FIT DIA.
K5-117	117 mm
K5-121	121 mm
K5-127	127 mm
K5-133	133 mm
K5-139	139 mm
K5-146	146 mm
K5-152	152 mm
K5-159	159 mm
K5-165	165 mm
K5-178	178 mm
K5-191	191 mm
K5-203	203 mm
K5-219	219 mm
K5-230	230 mm
K5-241	241 mm
K5-254	254 mm
K5-305	305 mm
K5-315	315 mm
K5-324	324 mm

Insulation Barrier



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

Single Bolt Strut Clamp



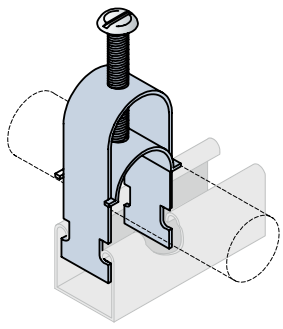
Setscrew and Strut nut ordered separately

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
H	Hot Dip Galvanised
Z	Zinc Passivated
S	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

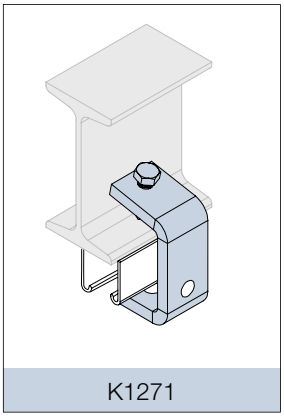
AVAILABLE FINISH	
SUFFIX	DESCRIPTION
H	Hot Dip Galvanised
Z	Zinc Passivated

When Ordering add suffix to end of product code

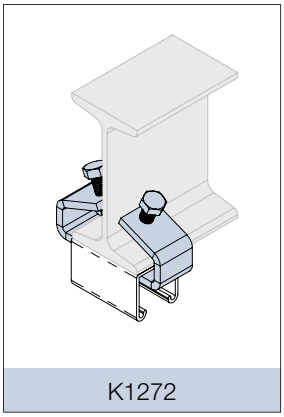
E.&O.E.

K-Strut Fittings

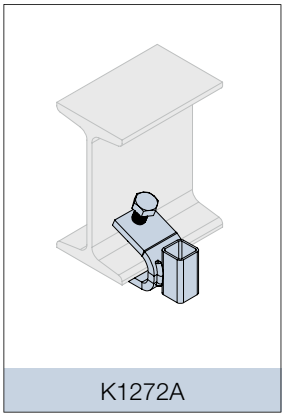
Column Support Applications



K1271

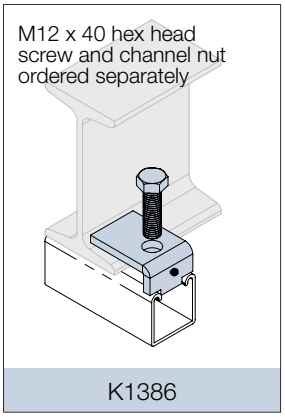


K1272



K1272A

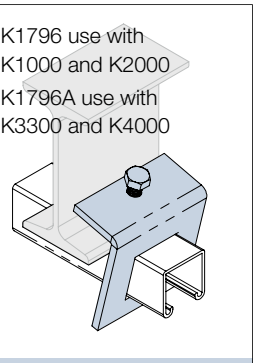
M12 x 40 hex head screw and channel nut ordered separately



K1386

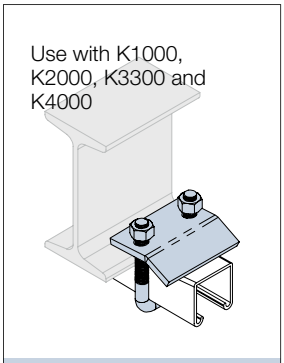
K1796 use with K1000 and K2000

K1796A use with K3300 and K4000



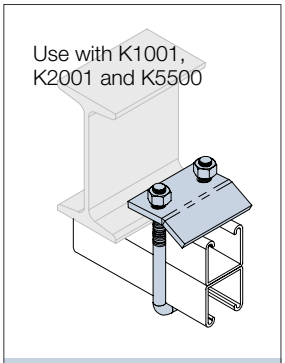
K1796 & K1796A

Use with K1000, K2000, K3300 and K4000



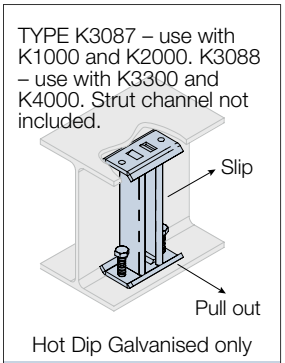
K2785

Use with K1001, K2001 and K5500



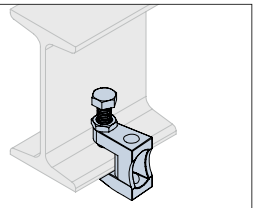
K2786

TYPE K3087 – use with K1000 and K2000. K3088 – use with K3300 and K4000. Strut channel not included.



Hot Dip Galvanised only

K3087 & K3088



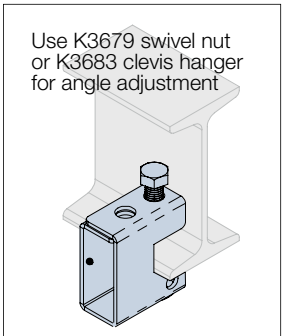
Malleable Iron Clamp
Zinc Plated only

KBC08 - M8

KBC10 - M10

KBC12 - M12

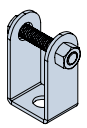
Use K3679 swivel nut or K3683 clevis hanger for angle adjustment



K3676

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

Use with K3676.
M10 x 50 screw, nut & lock washer included



K3683

Swivel Nut

CODE	SIZE
K367910Z	M10
K367912Z	M12

Zinc Plated Only

K3679

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

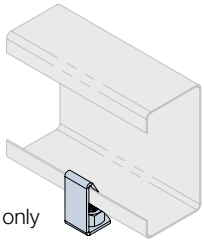
NOTES: Material thickness 6mm hole diameter 14 mm
Channel nuts and bolts order seperately

E.&O.E.

K-Strut Fittings

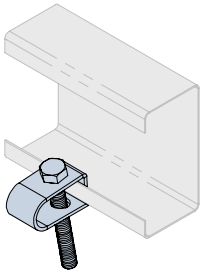
Hanger Support Applications

FINISH: Zinc Plated only



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

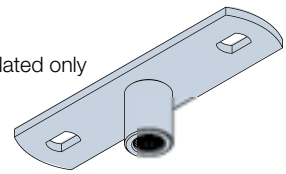
FINISH: Zinc Plated only



CODE	THREAD SIZE	WORKING LOAD (kg)
K1273Z	M10	40

Central Female Hanger

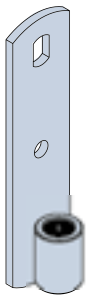
FINISH: Zinc Plated only



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

Verticle Mounting Plate

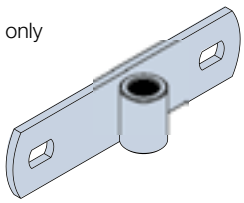
FINISH: Zinc Plated only



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

Horizontal Mounting Plate

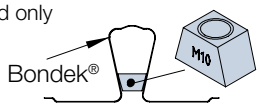
FINISH: Zinc Plated only



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

Wedge Nuts for Bondek®

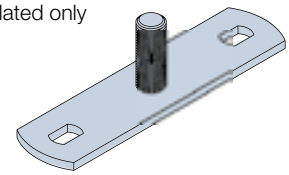
FINISH: Zinc Plated only



CODE	SIZE
KWN06	M6
KWN08	M8
KWN10	M10
KWN12	M12

Central Male Mounting Plate

FINISH: Zinc Plated only



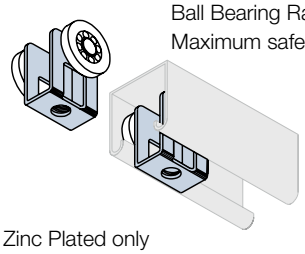
CODE	THREAD SIZE	WORKING LOAD (kg)
K1200DZ10	M10	320
K1200DZ12	M12	480

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

E.&O.E.

K-Strut Fittings

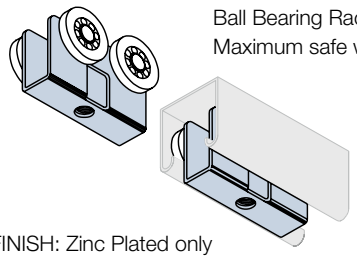
Channel Carriages



Ball Bearing Race
Maximum safe working load 23 kg

FINISH: Zinc Plated only

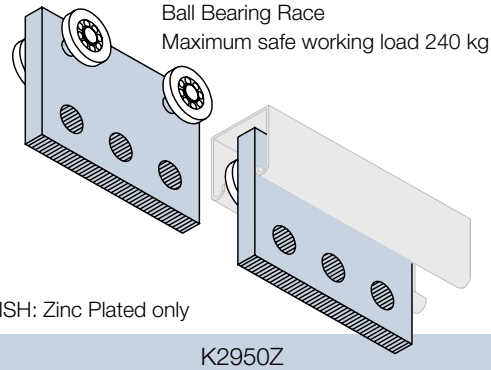
K2749Z



Ball Bearing Race
Maximum safe working load 45 kg

FINISH: Zinc Plated only

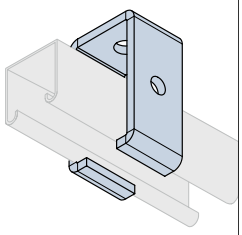
K2750Z



Ball Bearing Race
Maximum safe working load 240 kg

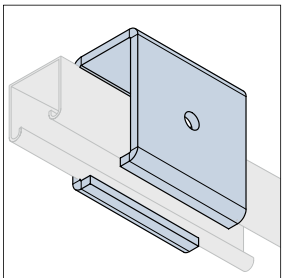
FINISH: Zinc Plated only

K2950Z



FINISH: Hot Dip Galv only

K1834H

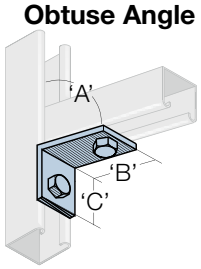


FINISH: Hot Dip Galv only

K1834AH

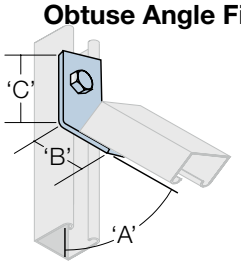
Angle Fittings

Obtuse Angle Fitting



K2095
K2097
K1546

Obtuse Angle Fitting



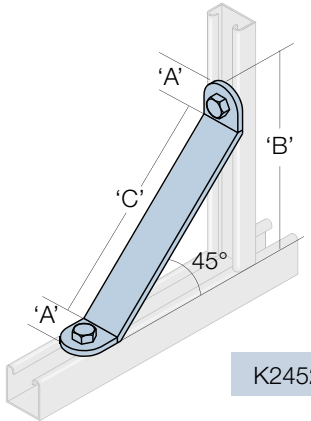
K2101
K2103

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

When Ordering add suffix to end of product code

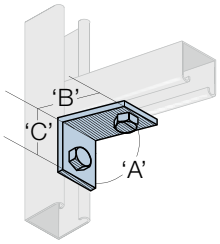
OBTUSE ANGLE FITTING			
CODE	**A °**	**B**	**C**
K2095	75	91	43
K2097	60	86	48
K1546	45	76	60
K2101	30	83	52
K2103	15	84	52
ACUTE ANGLE FITTING			
CODE	**A °**	**B**	**C**
K2106	75	80	63
K2108	60	80	63
K1186	45	80	63
ANGLE FITTING			
CODE	**A**	**B**	**C**
K2452	41	346	422

Angular Fitting



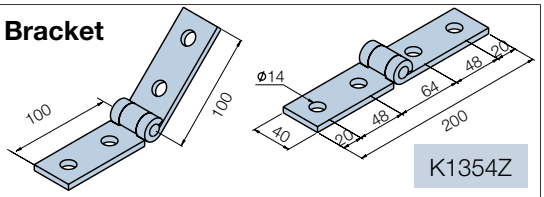
K2452

Acute Angle Fitting



K2106
K2108
K1186

Hinged Bracket



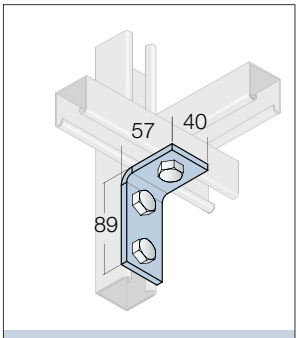
K1354Z

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

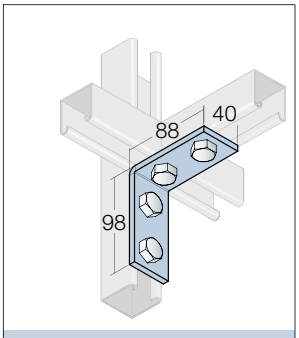
E.&O.E.

K-Strut Fittings

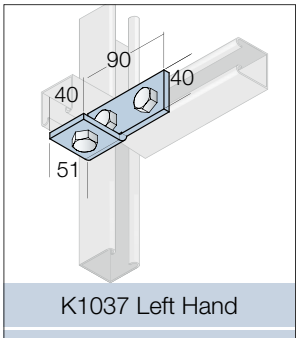
90° Fittings



K1458

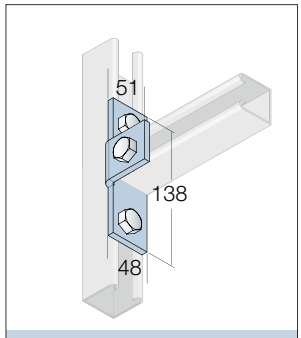


K1325

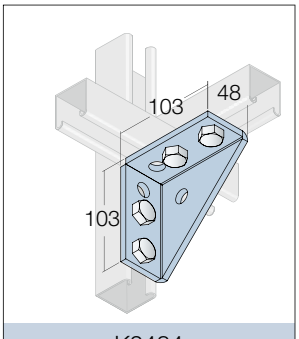


K1037 Left Hand

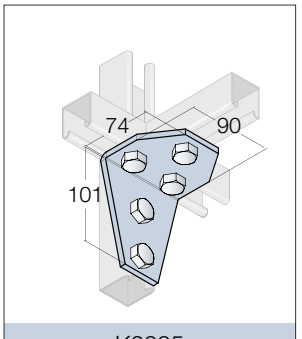
K1038 Right Hand



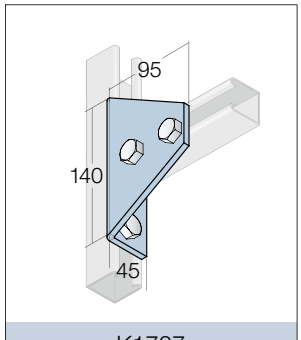
K1033



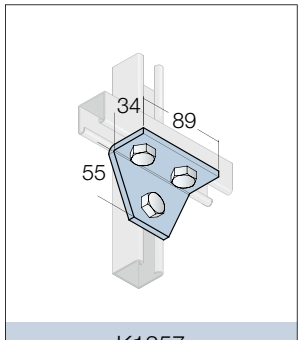
K2484



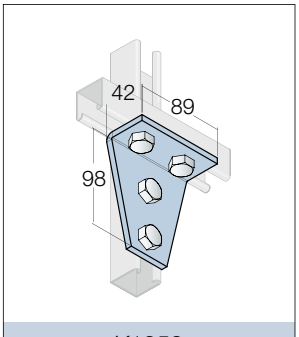
K2235



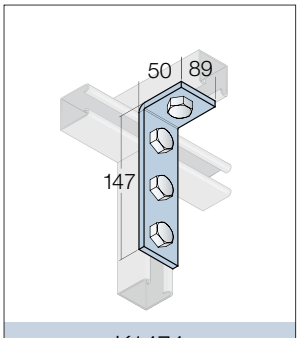
K1727



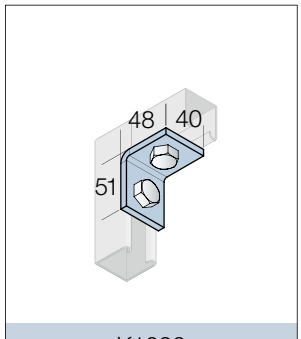
K1357



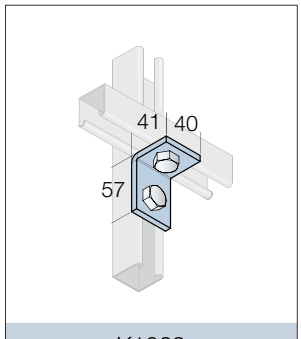
K1359



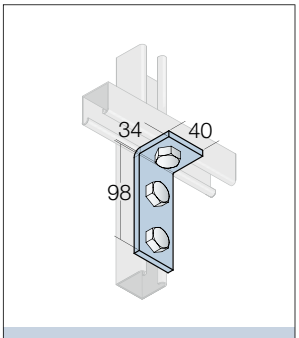
K1474



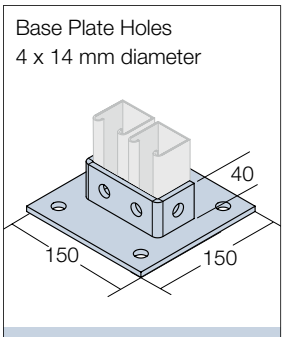
K1026



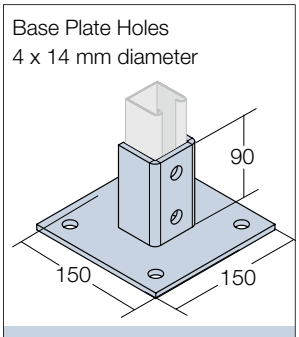
K1068



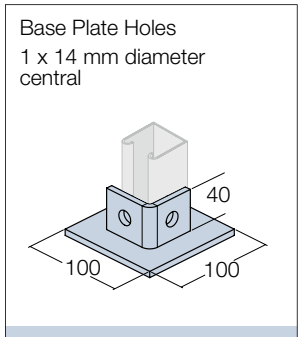
K1326



K2073



K2072A



K2072S1

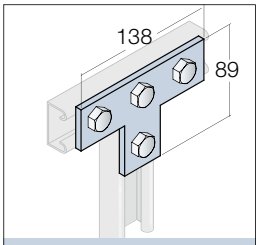
AVAILABLE FINISH	
SUFFIX	**DESCRIPTION**
H	Hot Dip Galvanised
S	316 Stainless Steel
When Ordering add suffix to end of product code	

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

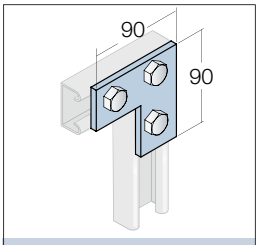
E.&O.E.

K-Strut Fittings

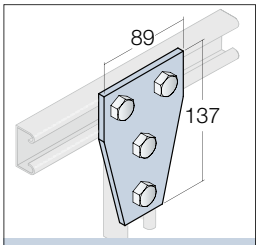
Flat Fittings



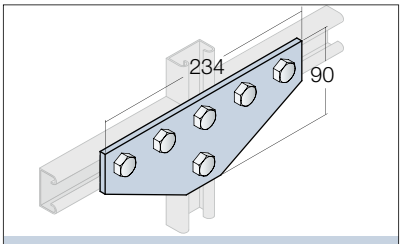
K1031



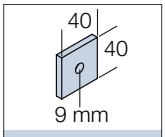
K1036



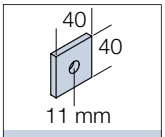
K1358



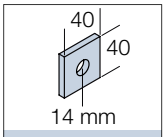
K1953



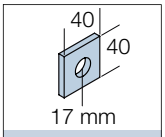
K1062



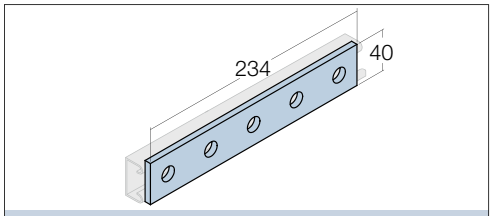
K1063



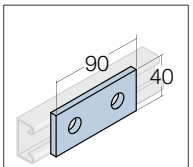
K1064



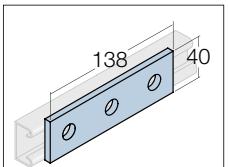
K1964



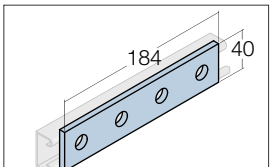
K1941



K1065



K1066

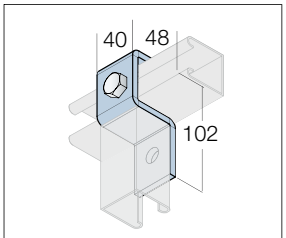


K1067

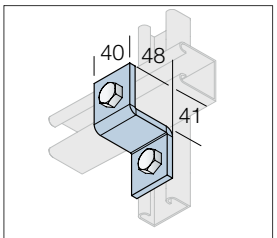
AVAILABLE FINISH	
SUFFIX	DESCRIPTION
H	Hot Dip Galvanised
S	316 Stainless Steel

When Ordering add suffix to end of product code

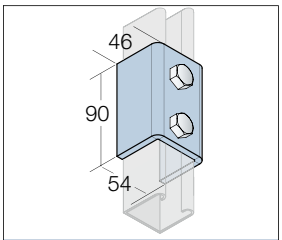
"U" & "Z" Fittings



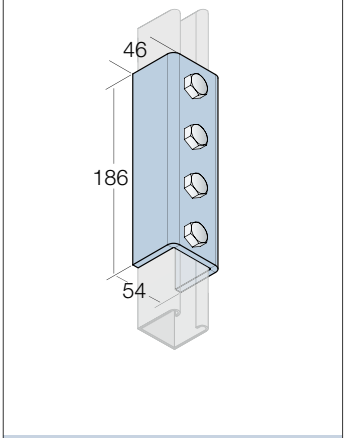
K1046



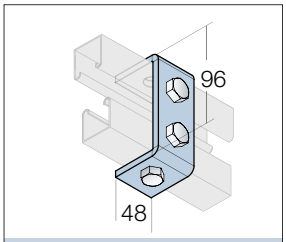
K1045



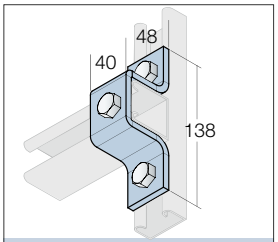
K1376



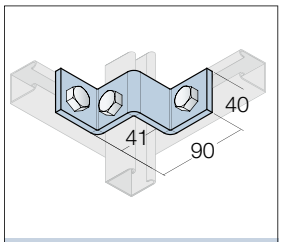
K1377



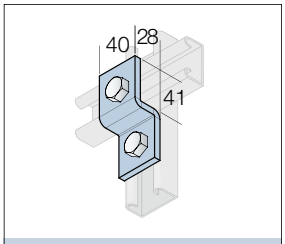
K1044



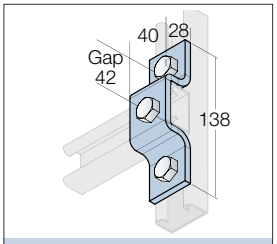
K1047



K1736



K4045



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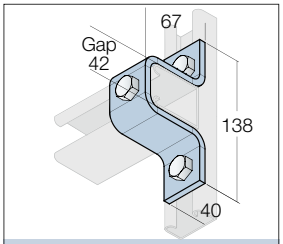


K5547

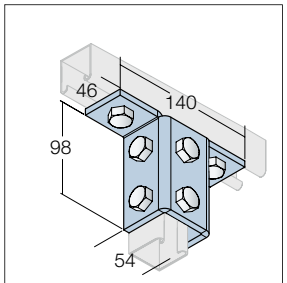
AVAILABLE FINISH	
SUFFIX	DESCRIPTION
H	Hot Dip Galvanised
S	316 Stainless Steel

When Ordering add suffix to end of product code

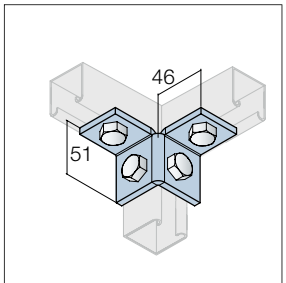
E.&O.E.

K-Strut Fittings

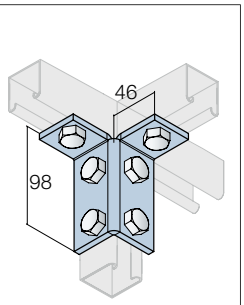
Winged Shape Fittings



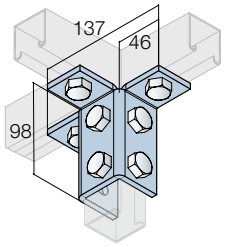
K2346



K2223

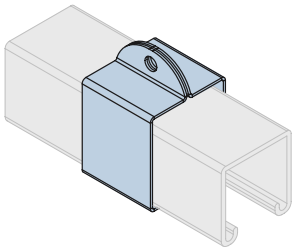


K2224



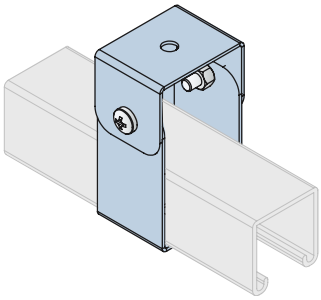
K2228

Lighting Supports

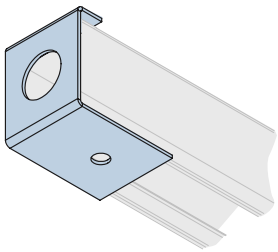


FINISH: Zinc Plated only

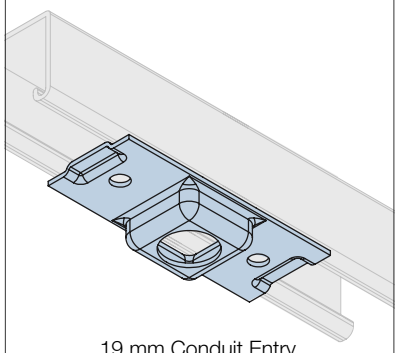
K2539



K2335

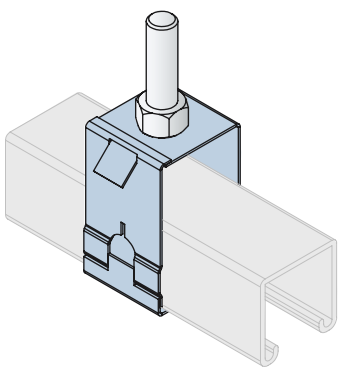


CHANNEL END CONDUIT ENTRY	
CODE	**CONDUIT ENTRY SIZE**
K2521-75	19 mm
K2521-100	25 mm

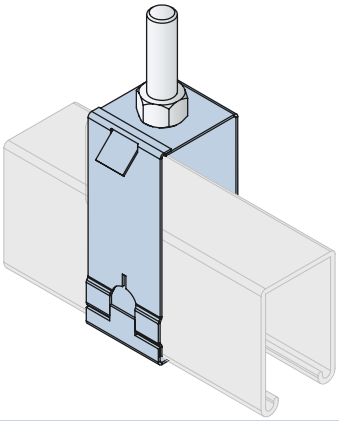


19 mm Conduit Entry

K2535-75



K2855



K2755

AVAILABLE FINISH	
SUFFIX	**DESCRIPTION**
H	Hot Dip Galvanised
Z	Zinc Plated

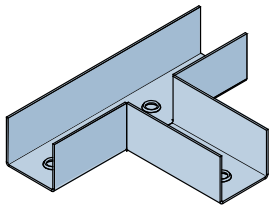
When Ordering add suffix to end of product code

E.&O.E.

K-Strut Fittings

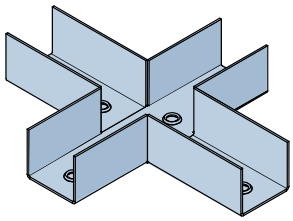
Joiner Boxes/PVC Accessories

Tee



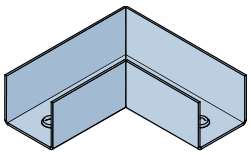
K1221

Cross



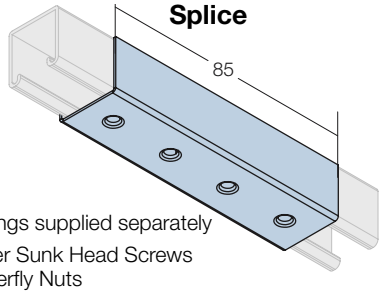
K1222

90° Elbow



K1220

Splice



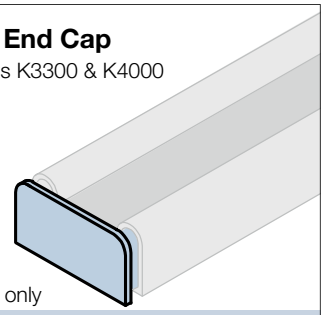
Zinc Plated Fastenings supplied separately
4 x M6 x 16 Counter Sunk Head Screws
4 x K3016 M6 Butterfly Nuts

K922

AVAILABLE FINISH	
SUFFIX	**DESCRIPTION**
H	Hot Dip Galvanised
Z	Zinc Plated

When Ordering add suffix to end of product code

End Cap
Suits K3300 & K4000

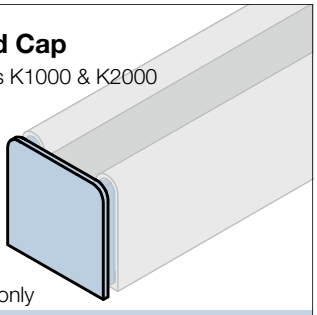


PVC only

K4240 GREY

K4240W WHITE

End Cap
Suits K1000 & K2000

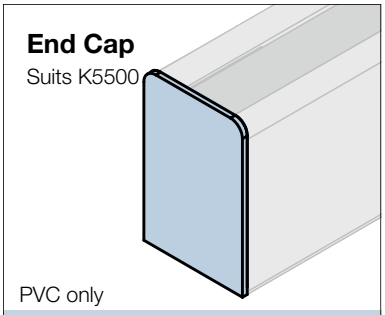


PVC only

K2240 `GREY

K2240W WHITE

End Cap
Suits K5500

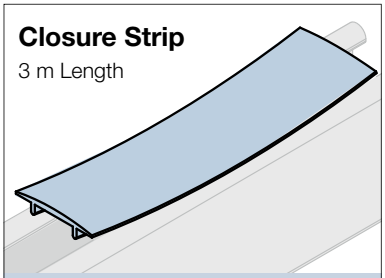


PVC only

K5540 GREY

K5540W WHITE

Closure Strip
3 m Length

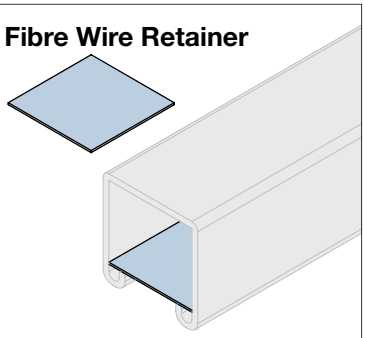


K1184AL ALUM

K1184PL GREY

K1184PL WHITE

Fibre Wire Retainer



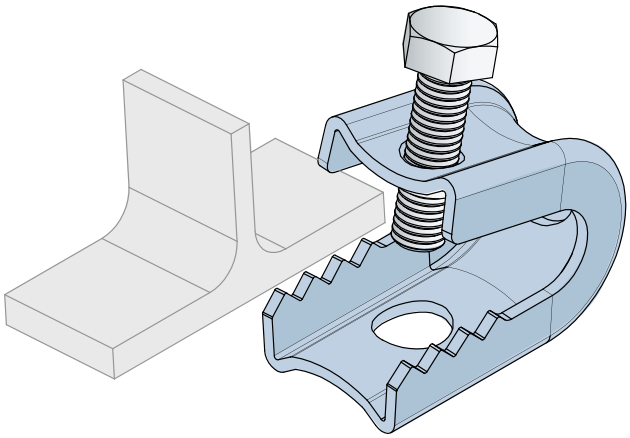
K2552PLA

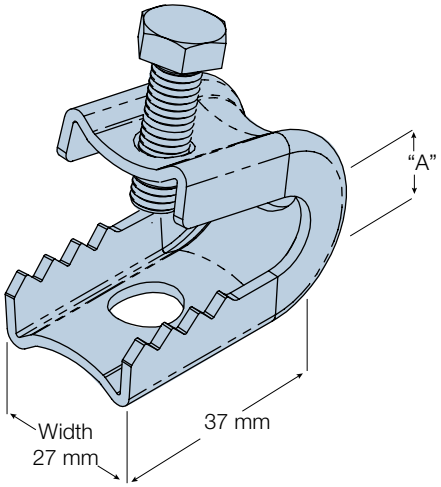
AVAILABLE FINISH	
SUFFIX	**DESCRIPTION**
PL	PVC Grey
W	PVC White
AL	Aluminium

E.&O.E.

K-Strut Fittings

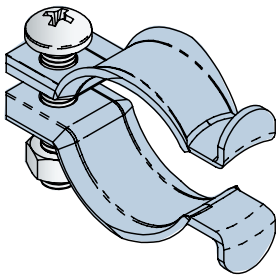
Adaptable Beam Clamps



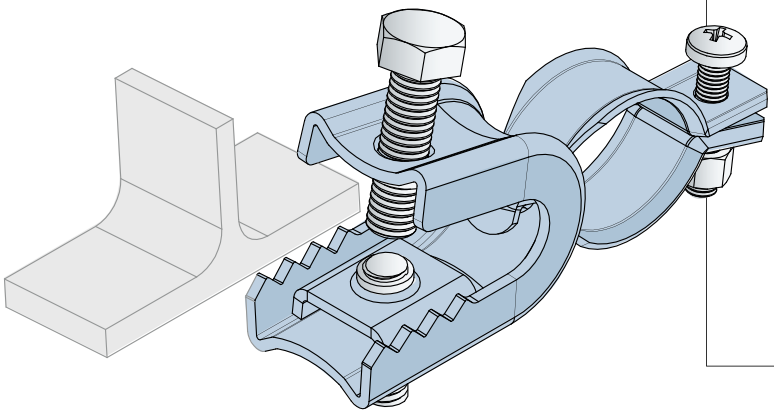


CODE	GRIP "A"	SCREW SIZE
KCC17	17 mm	M8 x 30 Cone Point
KCC36	36 mm	M8 x 50 Cone Point
KCC45	45 mm	M8 x 50 Cone Point

Cable – Pipe Clamps

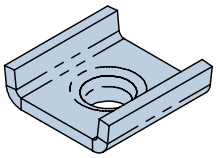


CODE	GRIP DIA.	WIDTH	SCREW SIZE
KAC19	16-20 mm	16 mm	M5 x 20 R/H screw & nut
KAC25	21-25 mm	16 mm	M5 x 20 R/H screw & nut
KAC31	27-32 mm	16 mm	M5 x 20 R/H screw & nut
KAC42	40-44 mm	20 mm	M5 x 20 R/H screw & nut
KAC48	47-51 mm	20 mm	M5 x 20 R/H screw & nut



General Arrangement of Assembly with Cable Clamp and Drop Rod

Drop Rod Locators



CODE	DROP ROD SIZE
KRC06	M6
KRC08	M8
KRC10	M10

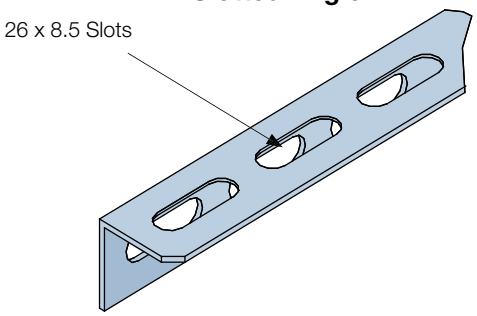
AVAILABLE FINISH	
SUFFIX	**DESCRIPTION**
H	Hot Dip Galvanised
Z	Zinc Passivated
S	316 Stainless Steel
When Ordering add suffix to end of product code	

E.&O.E.

K-Strut Fittings

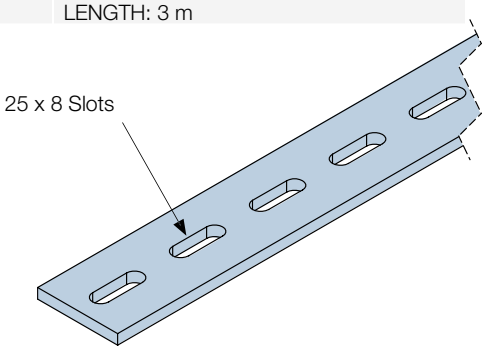
Supports/Hangers

Slotted Angle

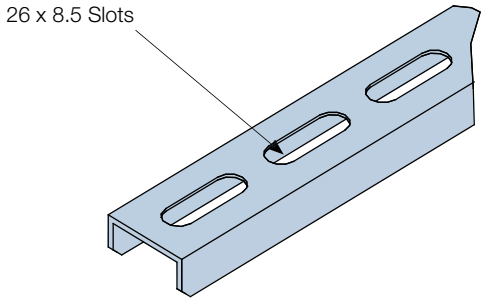


CODE	DESCRIPTION
KSA25	25 x 25 x 3 mm Slotted Angle MATERIAL: Hot Dip Galvanised LENGTH: 3 m
KSA40	40 x 40 x 5 mm Slotted Angle MATERIAL: Hot Dip Galvanised LENGTH: 3.75 m
KSA50	50 x 50 x 3 mm Slotted Angle MATERIAL: Hot Dip Galvanised LENGTH: 3 m

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

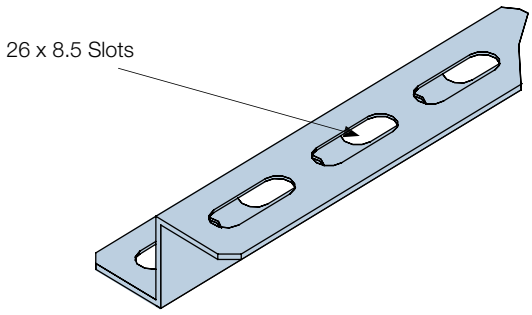


Slotted Channel



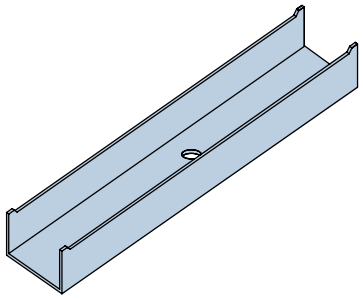
CODE	DESCRIPTION
KSC25	25 x 25 x 1.6 mm Slotted Channel MATERIAL: Plain Galvanised Iron Other finishes available on request LENGTH: 2.4 m

Slotted Z Bar



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	

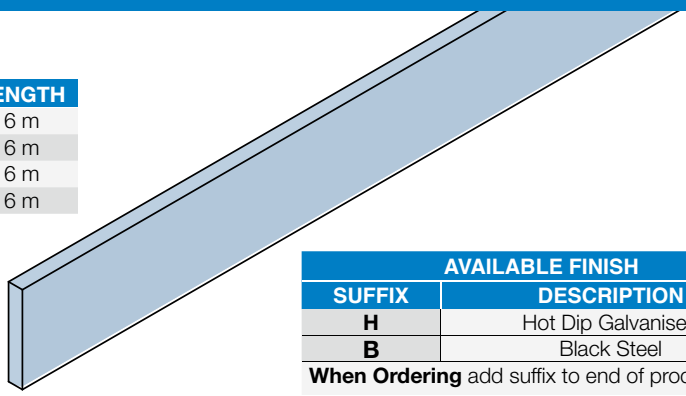
E.&O.E.

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



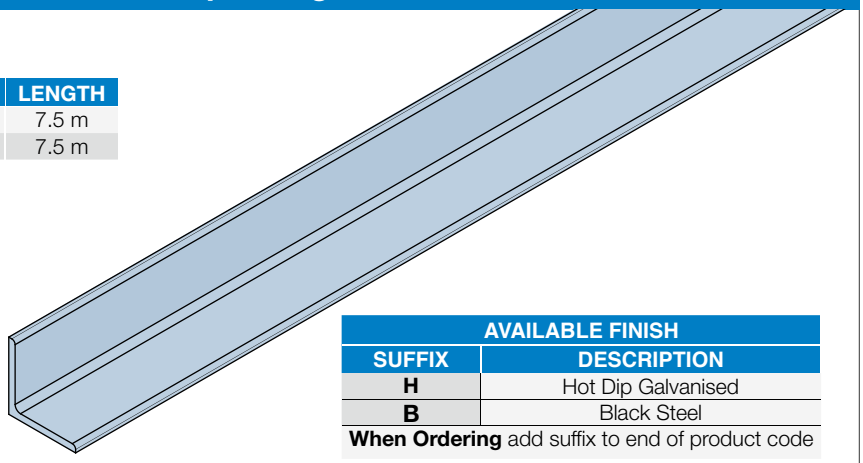
AVAILABLE FINISH	
SUFFIX	DESCRIPTION
H	Hot Dip Galvanised
B	Black Steel

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



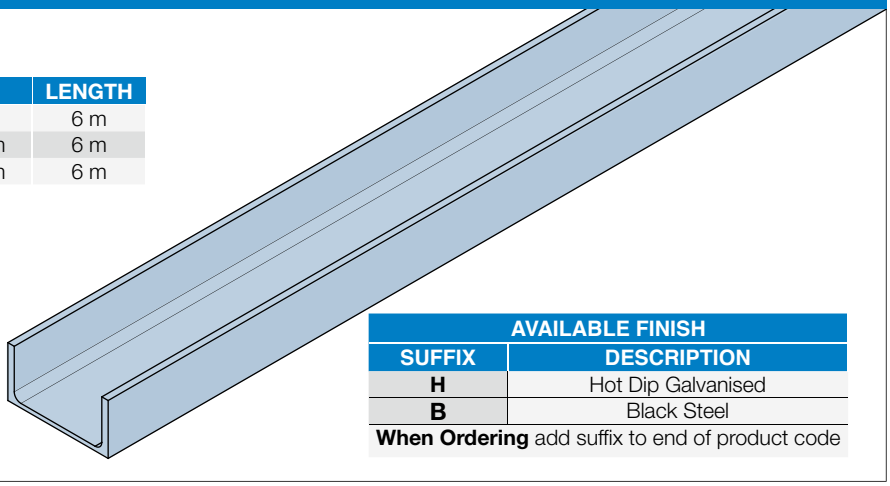
AVAILABLE FINISH	
SUFFIX	DESCRIPTION
H	Hot Dip Galvanised
B	Black Steel

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
H	Hot Dip Galvanised
B	Black Steel

When Ordering add suffix to end of product code

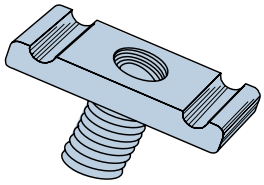
STRUCTURAL STEEL: AS/NZS 3679
HOT DIP GALVANISED: AS/NZS 4680

E.&O.E.

K-Strut Fittings

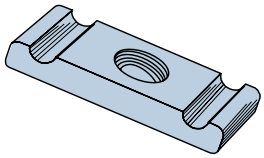
Channel Nuts

Channel Nut- Long Spring for K1000/K2000 Channel

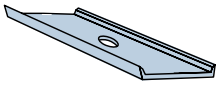


CODE	SIZE
K1006	M6
K1007	M8
K1008	M10
K1010	M12
K1012	M16

Channel Nut- Without Spring for all Channel Types

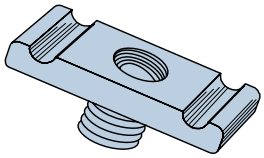


CODE	SIZE
K3016	M6
K3006	M6
K3007	M8
K3008	M10
K3010	M12
K3012	M16



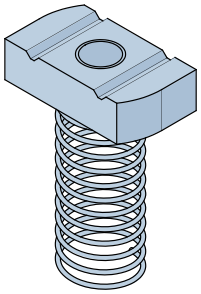
K3016

Channel Nut- Short Spring for K3300/K4000 Channel



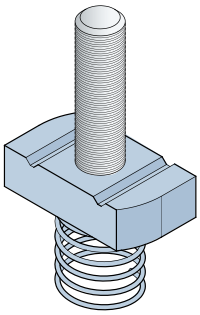
CODE	SIZE
K4006	M6
K4007	M8
K4008	M10
K4010	M12

Channel Nut- Long Spring for K5500 Channel



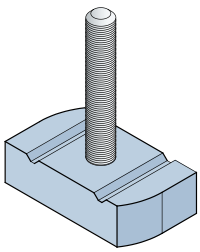
CODE	SIZE
K5508	M10
K5510	M12

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

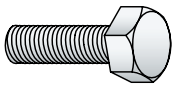
AVAILABLE FINISH	
SUFFIX	DESCRIPTION
H	Hot Dip Galvanised
Z	Zinc Passivated
S	316 Stainless Steel
When Ordering add suffix to end of product code	

E.&O.E.

K-Strut Fittings

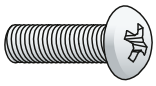
Fasteners

Hex Head Set Screws



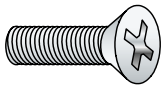
CODE	SIZE
HHS0620	M6 x 20
HHS0625	M6 x 25
HHS0820	M8 x 20
HHS0825	M8 x 25
HHS0830	M8 x 30
HHS1020	M10 x 20
HHS1025	M10 x 25
HHS1030	M10 x 30
HHS1040	M10 x 40
HHS1225	M12 x 25
HHS1230	M12 x 30
HHS1240	M12 x 40
HHS1260	M12 x 60
HHS1640	M16 x 40

Pan Head Screws



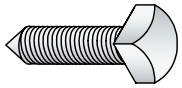
CODE	SIZE
PHS0620	M6 x 20
PHS0625	M6 x 25
PHS0825	M8 x 25

Countersunk Head Screws



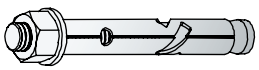
CODE	SIZE
CKS0616	M6 x 16
CKS0620	M6 x 20
CKS0820	M8 x 20

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

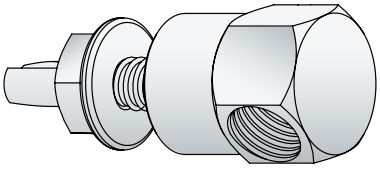
When Ordering add suffix to end of product code

E.&O.E.

K-Strut Fittings

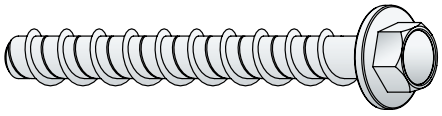
Fasteners

Steel Sidehanger



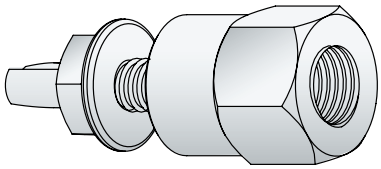
CODE	DESCRIPTION
SHM06	SD3 – 1/4"-20 x 25
SHM08	SD3 – 1/4"-20 x 25 with nuts
SHM10	SD3 – 1/4"-20 x 25 with nuts
SHM12	SD3 – 1/4"-20 x 25 with nuts

Zinc Plated Concrete Screw



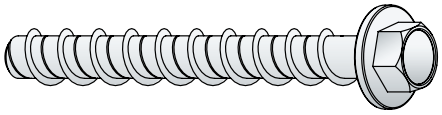
CODE	DESCRIPTION
BT550	5 x 50 mm
BT850	8 x 50 mm
BT875	8 x 75 mm
BT1060	10 x 60 mm
BT1075	10 x 75 mm
BT1275	12 x 75 mm
BT6550	6.5 x 50 mm

Steel Vertical Hanger



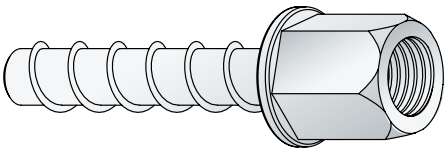
CODE	DESCRIPTION
VHM06	SD3 – 1/4"-20 x 25
VHM08	SD3 – 1/4"-20 x 25 with nuts
VHM10	SD3 – 1/4"-20 x 25 with nuts

Mechanically Galvanised Concrete Screw



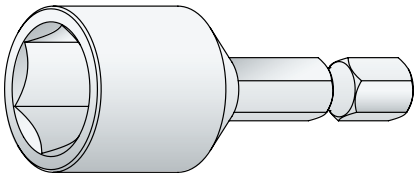
CODE	DESCRIPTION
BT550	5 x 50 mm
BT850	8 x 50 mm
BT875	8 x 75 mm
BT1060	10 x 60 mm
BT1075	10 x 75 mm
BT1275	12 x 75 mm
BT6550	6.5 x 50 mm

Concrete Vertical Hanger



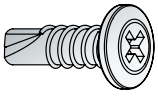
CODE	DESCRIPTION
VH6532-M08	6.5 mm x 32 mm
VH6538-M10	6.5 mm x 38 mm

Socket Driver



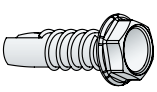
CODE	DESCRIPTION
SD-M8	Socket Driver for M6
SD-M10	Socket Driver for M8

10-16 x 16 Posidrive Tek Scew



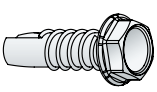
WHKH

10-16 x 16 Hexhead Tek Scew



CSKH10

12-14 x 20 Hexhead Tek Scew



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										

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 APLICATION	ON APLICATION	ON APLICATION
	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 APLICATION	ON APLICATION	ON APLICATION
	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 APLICATION	ON APLICATION	ON APLICATION
	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			

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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

E.&O.E.

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						
	Screw Lid			**Clip Lid**		
	CODE	**Duct Size**	**Weight kg**	**CODE**	**Duct Size**	**Weight kg**
Duct x 2.4 m Length	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	1.85	11.18
	300 mm	5.55	11.21	15.46	11.5	16.45	5.77	3.25	19.82
	450 mm	7.94	16.05	22.13	15.93	23.55	8.27	4.65	28.46
	600 mm	10.33	20.89	28.8	20.39	30.64	10.76	6.05	37.1
	750 mm	12.74	25.75	35.5	24.83	37.78	13.26	7.46	45.73
	900 mm	15.13	30.59	42.17	29.28	44.88	15.75	8.86	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	1.72	9.99
	300 mm	5.01	10.12	13.96	13.32	14.85	5.21	2.93	18.07
	450 mm	7.08	14.32	19.74	18.65	21	7.37	4.15	25.56
	600 mm	9.16	18.51	25.52	23.96	27.16	9.53	5.36	33.05
	750 mm	11.23	22.7	31.3	29.3	33.31	11.69	6.58	40.54
	900 mm	13.3	26.9	37.09	34.61	39.46	13.85	7.79	48.03

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