



KOUNIS

Metal Industries Pty. Ltd.

SINCE 1953

ABN 43 008 701 335

ACN 008 701 335



Paul Kounis
Looking Forward (1960's)

The Beginning

Kounis Metal Industries was founded in 1953 with the emphasis on providing superior service to its customers, during the subsequent growth and diversification this has never changed. The company is dedicated to the supply of cost-effective sheetmetal products for mining, construction and commercial projects. Kounis Metal Industries is wholly West Australian owned and continues to show positive growth. Past clientele are able to substantiate the companies impeccable project performances in relation to quality, engineering, planning and production. The company prides itself on quality, performance and turn around, and building long term relationship. This is evidenced by the companies high volume of repeat work won by reputation, referral and tender success.

Our Objective

To manufacture quality products with dedicated personnel to complete customer satisfaction, on time and on budget.





COMPANY POLICY

Kounis Metal Industries Pty Ltd manufactures a wide range of Standard and Custom Made Products and specialises in sheetmetal fabrication, CNC turret punching and bending, light to medium steel fabrication, stainless steel fabrication, cable support systems, electrical switchboard and motor control centre manufacture, commercial spray painting and powder coating.

Goal

To provide products and services of a quality which conforms to customer requirements and consistently meet our customers needs and expectations in respect to quality, performance, safety and price.

To achieve this we have implemented a Quality System which conforms to AS/NZS ISO 9001 throughout our operations ensuring that all Company activities are performed in a planned and systematic manner.

Objective

To strive towards continuous improvement in products and services for our customers. To this end provide the appropriate training, resources, environment and support necessary.

It is my responsibility, together with the Quality Assurance Manager and Heads of Departments to ensure the implemented Quality System is documented and maintained. It is the responsibility of all employees to actively contribute and develop a positive "Quality Culture" being guided by this policy and the elements contained in this Quality System.

P Kounis

Paul Kounis
MANAGING DIRECTOR





Kounis' Head Office Perth



SAFETY & HEALTH POLICY

Commitment

Kounis Metal Industries considers occupational safety and health (OSH) an integral part of the company's business vision and values. The business objective is to provide, with the assistance of our people, a workplace that protects the safety and health of our employees, contractors, customers, and visitors and complies with relevant OSH legislation.

This will be achieved through the development and implementation of a documented and systematic OSH management approach that includes the establishment of OSH business standards and supporting procedures, practices, guidance and information. A key aspect of this approach will involve the adoption of a risk management approach for identifying, assessing, controlling and monitoring occupational hazards across all areas of the business operations.

In maintaining this commitment, Kounis Metal Industries has developed an OSH Strategic Plan, which will include objectives, targets and key performance indicators to enable and measure OSH improvement. Kounis Metal Industries will also provide the resources (including internal and external expertise), equipment, skills and training necessary to ensure these OSH objectives are met and to assist our managers and employees to provide and maintain a safe and healthy work environment.

Management Responsibilities

The General Manager is ultimately responsible for OSH management and compliance throughout the company. All managers, supervisors and leading hands are responsible for work areas under their control, ensuring OSH procedures are in place and observed, and for communicating and implementing the necessary information and guidance to allow the safe performance of work. Managers, supervisors and leading hands are expected to continuously promote and maintain a high standard of OSH management in their respective work areas, to lead by example and encourage involvement of employees.

Employee Responsibilities

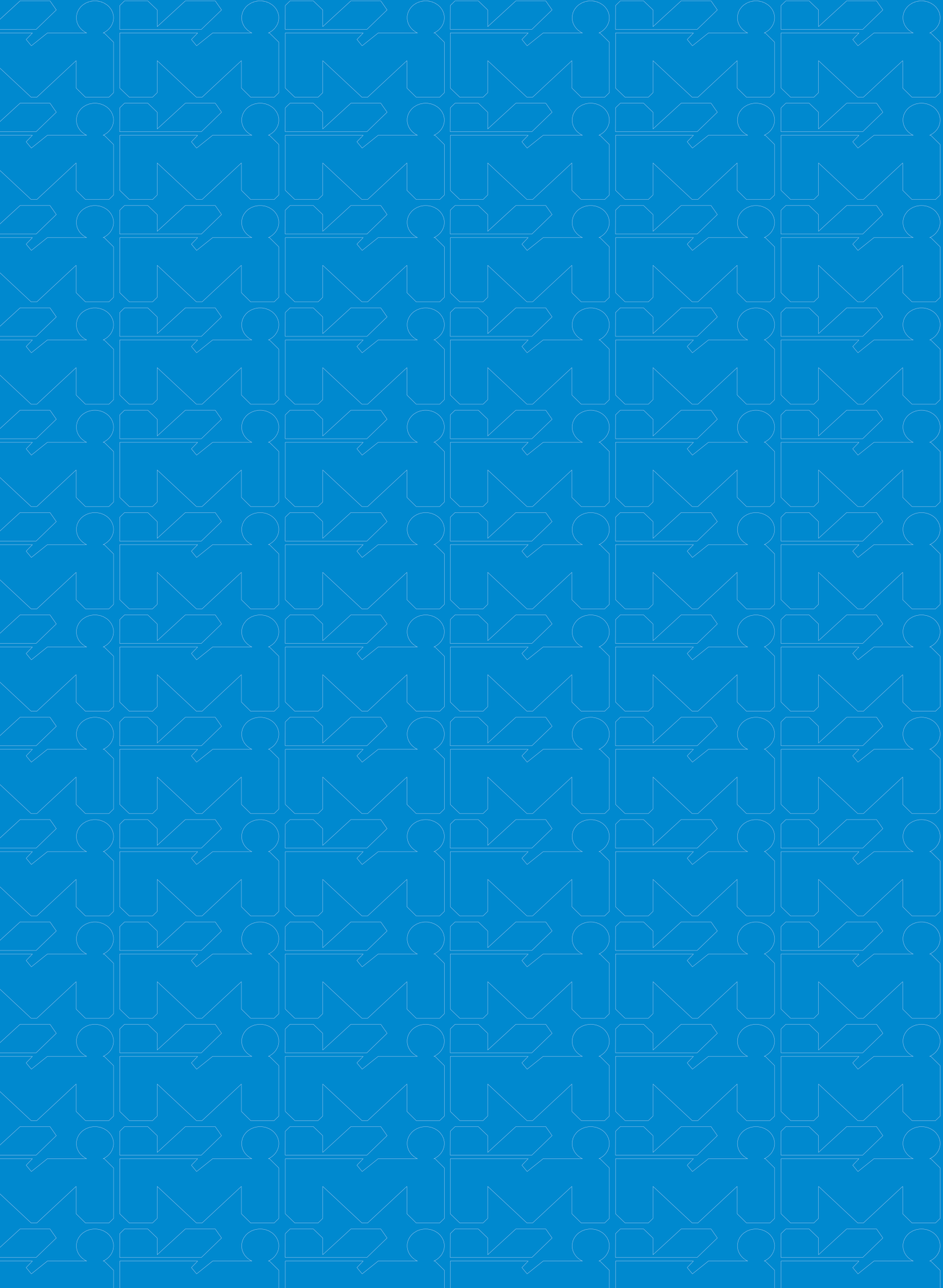
Employees are responsible for actively participating in Kounis Metal Industries OSH management system requirements, which includes working in a safe and healthy manner, participating in OSH training, complying with OSH related procedures, instructions and directions, not adversely affecting the safety of fellow employees, contractors, customers and visitors, and reporting to management any hazard, incident, or safety issue.

Consultation

Through our consultative process, we encourage two-way communication, cooperation and involvement of management, employees and contractors in the ongoing development and implementation of our OSH management system.

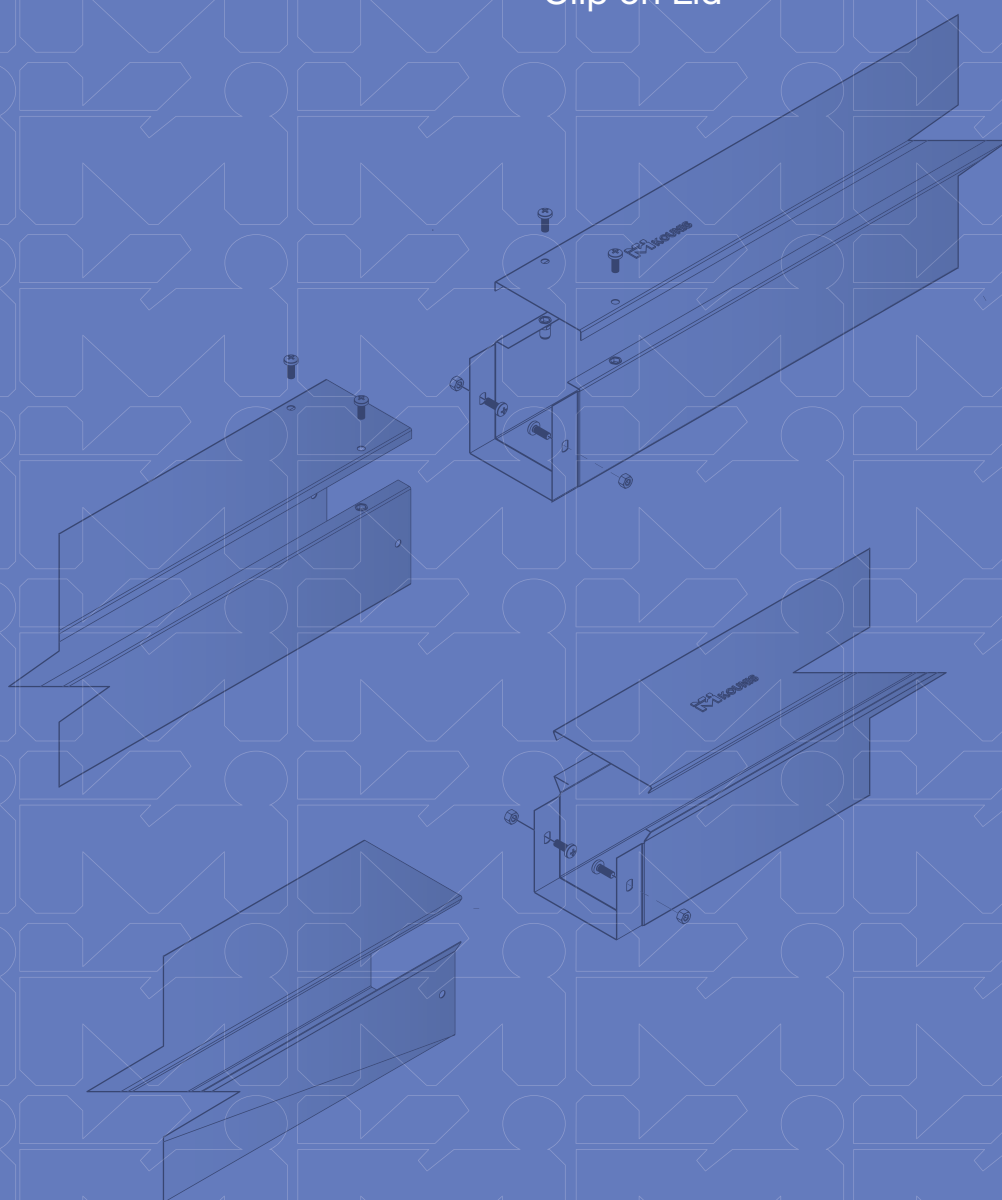
Dave Kounis
GENERAL MANAGER

Date 1 April 2009



SECTION: 1 Cable Ducting

- Screw on Lid
- Clip on Lid



CABLE DUCT SYSTEMS

General Description

The Kounis Metal Industries Cable Duct system offers complete versatility when undertaking cable installation work where segregation and mechanical protection are requirements and is available with either a clip on or screw on lid option.

Construction is from 0.75mm thick Galvabond material which offers excellent all round performance and provides a suitable base for painted finishes.

Clip on lid Cable Duct – was designed to provide a simple and economical means for supporting cables. The lid simply snaps on or off for ease of access without the requirement of special tools.

Screw on lid Cable Duct – was designed to provide a more robust and secure means for supporting cables, especially in vertical applications yet still retains ease of access.

Some of the features of the Kounis Cable Duct system include:-

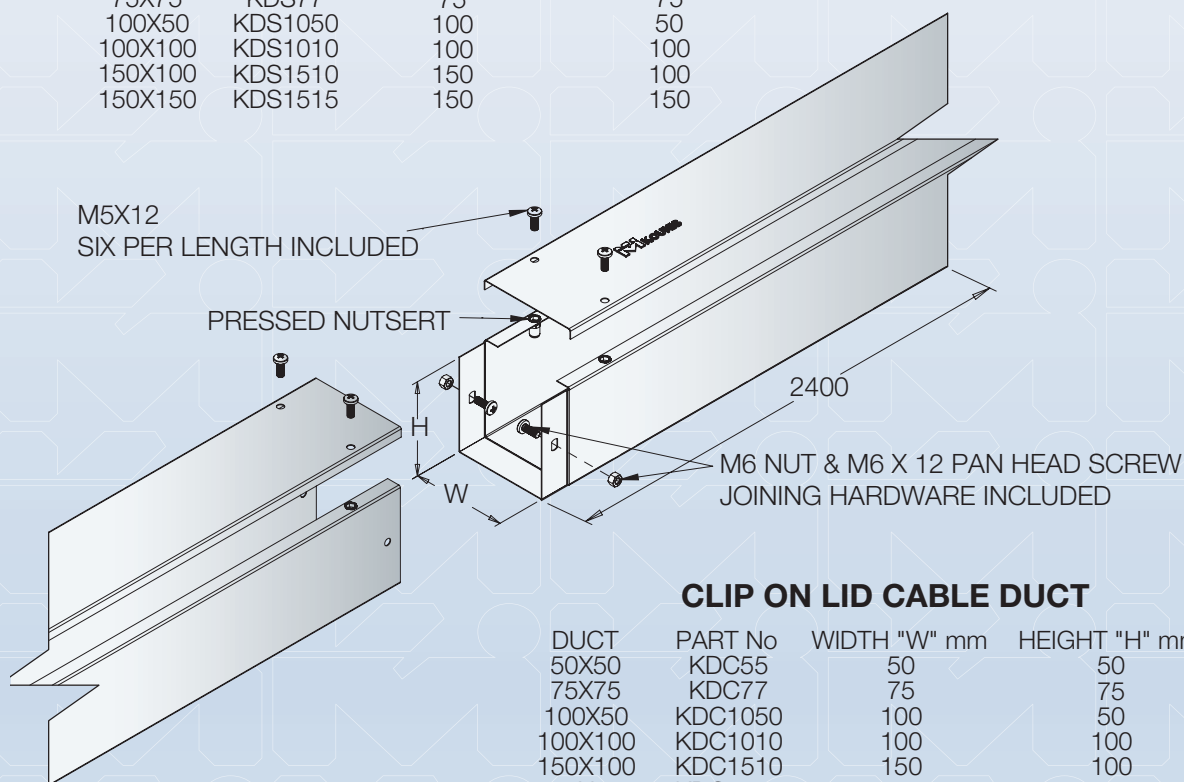
- Joggled ends for self splicing eliminating the need for separate joiners ensuring a faster and more cost effective installation.
- Our large variety of duct sizes means your selection can meet the cable and space requirements that are relevant to the project.
- A range of self splicing combination fittings are also available when using equal size duct thus reducing the need for separate bends, risers and tees.
- Duct can be shop fitted with barrier strip to form separate compartments.
- Duct and fittings can be made to order to suit customer requirements.
- Special requirements such as Knockouts for conduit entries can be supplied upon request.
- Loom tie offs available on request.

Kounis cable ducting can also be supplied in Powdercoated finish, Aluminium, grade 316 S/steel and hot dip galvanised upon request.

CABLE DUCT

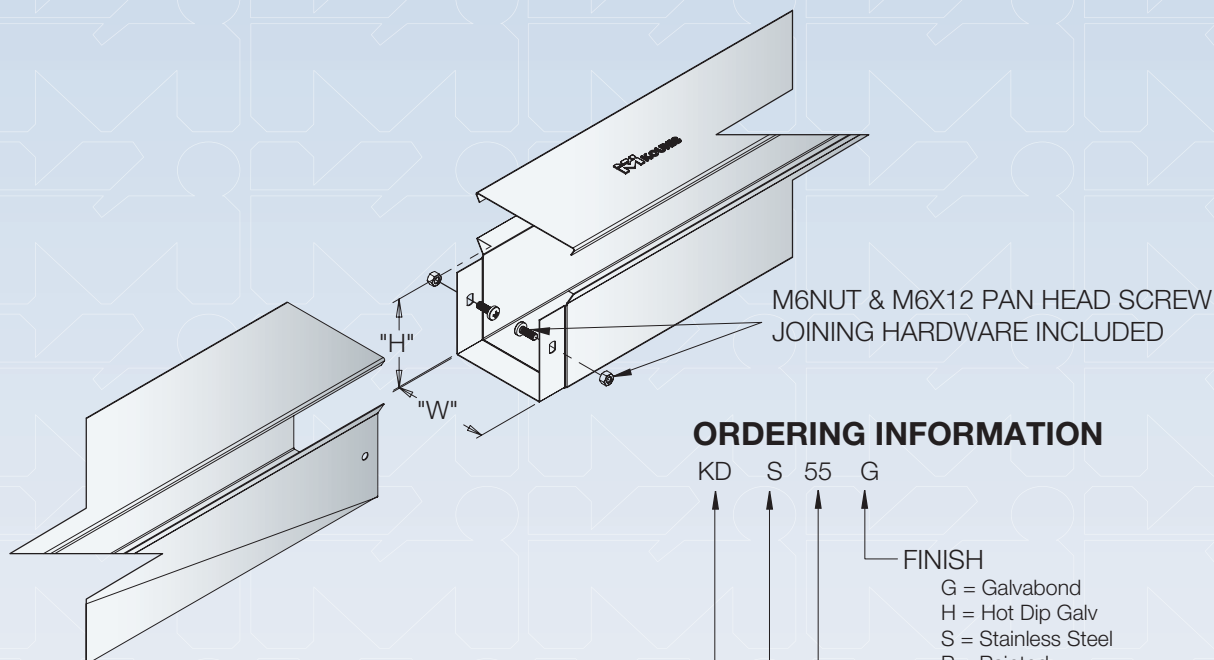
SCREW ON LID CABLE DUCT

DUCT	PART No	WIDTH "W" mm	HEIGHT "H" mm
50X50	KDS55	50	50
75X75	KDS77	75	75
100X50	KDS1050	100	50
100X100	KDS1010	100	100
150X100	KDS1510	150	100
150X150	KDS1515	150	150

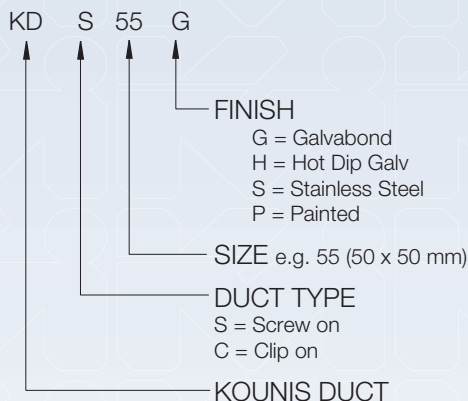


CLIP ON LID CABLE DUCT

DUCT	PART No	WIDTH "W" mm	HEIGHT "H" mm
50X50	KDC55	50	50
75X75	KDC77	75	75
100X50	KDC1050	100	50
100X100	KDC1010	100	100
150X100	KDC1510	150	100
150X150	KDC1515	150	150



ORDERING INFORMATION

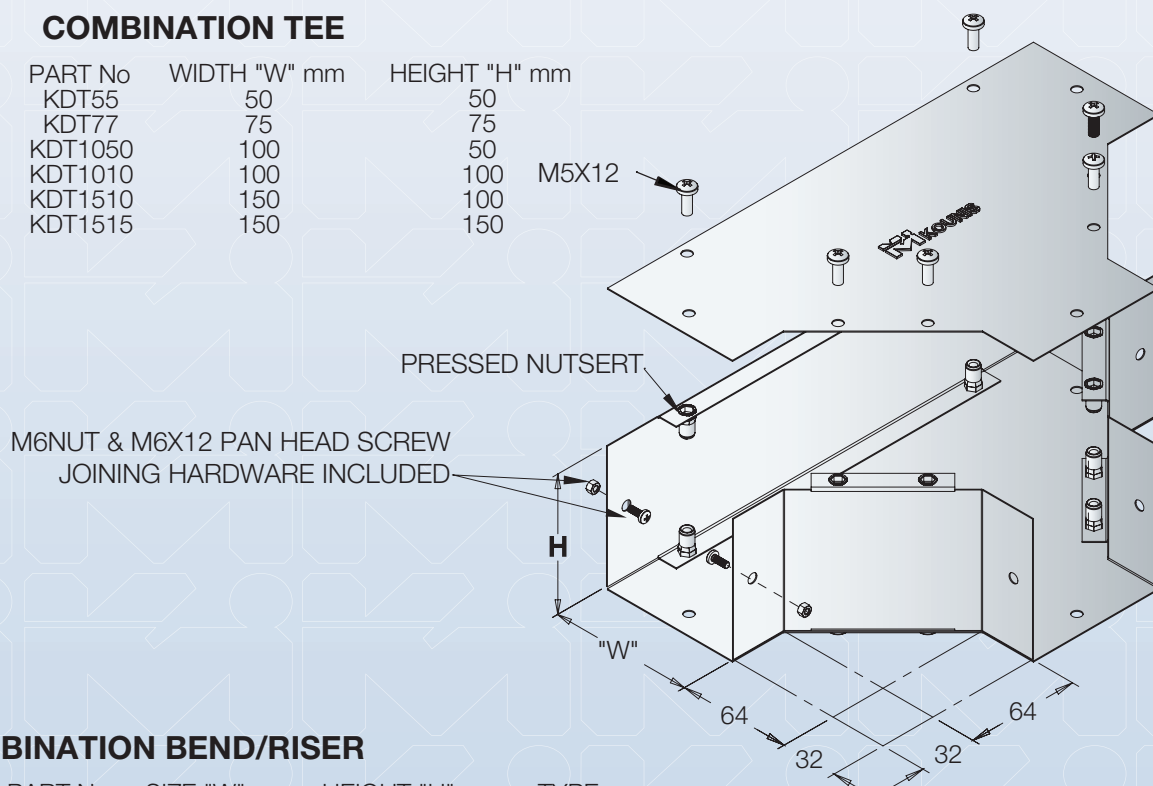


E.&O.E.

DUCT FITTINGS

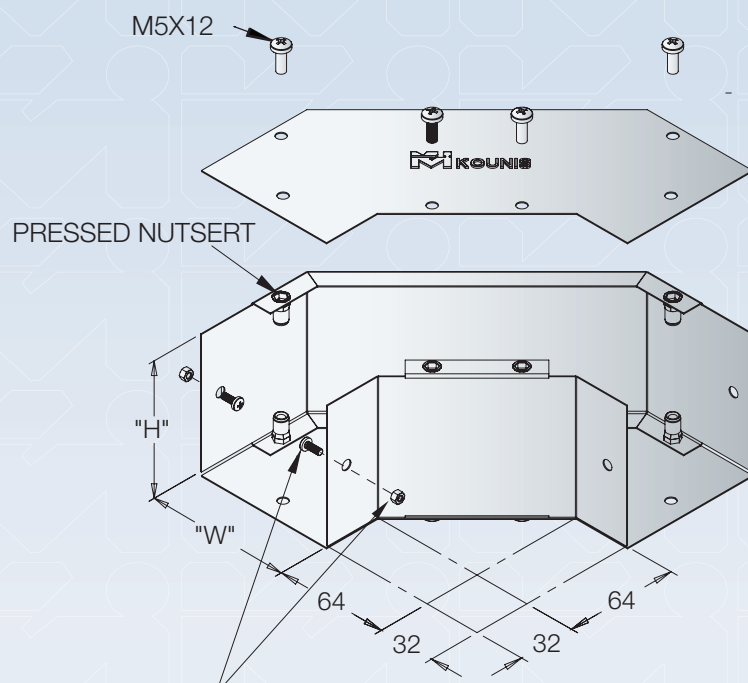
COMBINATION TEE

DUCT	PART No	WIDTH "W" mm	HEIGHT "H" mm
50X50	KDT55	50	50
75X75	KDT77	75	75
100X50	KDT1050	100	50
100X100	KDT1010	100	100
150X100	KDT1510	150	100
150X150	KDT1515	150	150



COMBINATION BEND/RISER

DUCT	PART No	SIZE "W" mm	HEIGHT "H" mm	TYPE
50X50	KDB55	50	50	BEND/RISER
75X75	KDB77	75	75	BEND/RISER
100X50	KDB1050	100	50	BEND
100X100	KDB1010	100	100	BEND/RISER
150X100	KDB1510	150	100	BEND
150X150	KDB1515	150	150	BEND/RISER
100X50	KDR1015	100	50	RISER
150X100	KDR1510	150	100	RISER



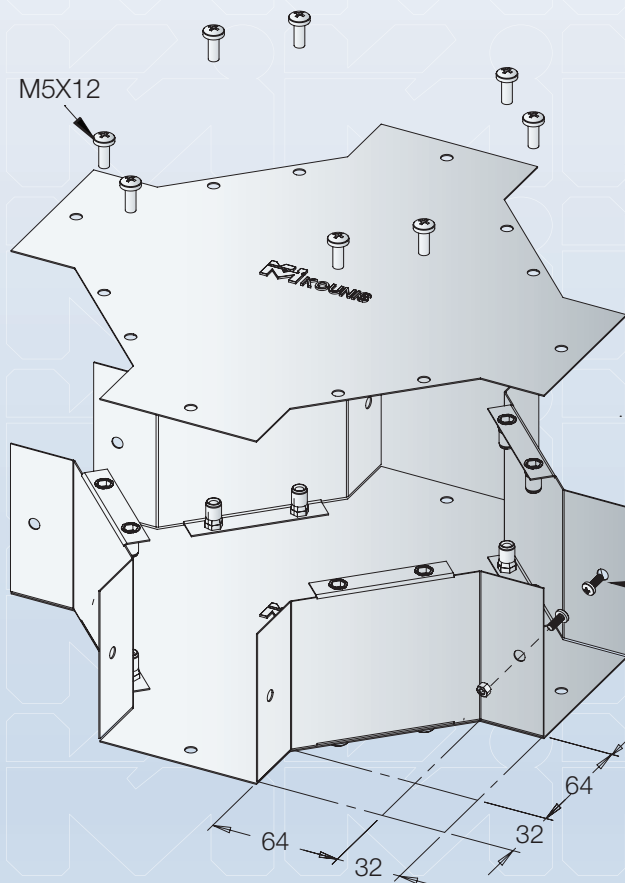
ORDERING INFORMATION

KD B 55 G
 ↑ ↑ ↑ ↑
 KOUNIS DUCT
 FITTING TYPE
 T = Tee
 B = Bend
 R = Riser
 FITTING SIZE e.g. 55 (50 x 50)
 FINISH
 G = Galvabond
 H = Hot Dip Galv
 S = Stainless Steel
 P = Painted

M6NUT & M6X12 PAN HEAD SCREW
JOINING HARDWARE INCLUDED

E.&O.E.

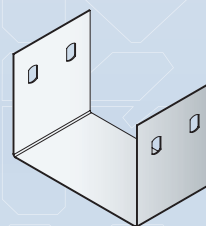
DUCT FITTINGS



EQUAL CROSS

DUCT	PART No	WIDTH "W" mm	HEIGHT "H" mm
50X50	KDX55	50	50
75X75	KDX77	75	75
100X50	KDX1050	100	50
100X100	KDX1010	100	100
150X100	KDX1510	150	100
150X150	KDX1515	150	150

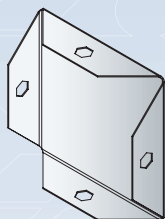
M6NUT & M6X12 PAN HEAD SCREW
JOINING HARDWARE INCLUDED



SPLICE PLATE

(JOINING HARDWARE INCLUDED)

DUCT	PART No	WIDTH "W" mm	HEIGHT "H" mm
50X50	KDP55	50	50
75X75	KDP77	75	75
100X50	KDP1050	100	50
100X100	KDP1010	100	100
150X100	KDP1510	150	100
150X150	KDP1515	150	150

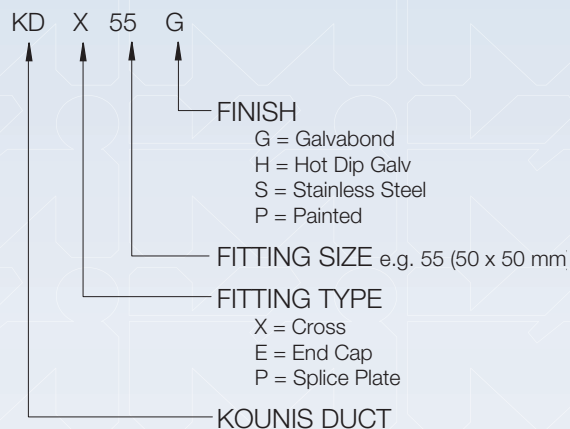


END CAP

(JOINING HARDWARE INCLUDED)

DUCT	PART No	WIDTH "W" mm	HEIGHT "H" mm
50X50	KDE55	50	50
75X75	KDE77	75	75
100X50	KDE1050	100	100
100X100	KDE1010	100	100
150X100	KDE1510	150	150
150X150	KDE1515	150	150

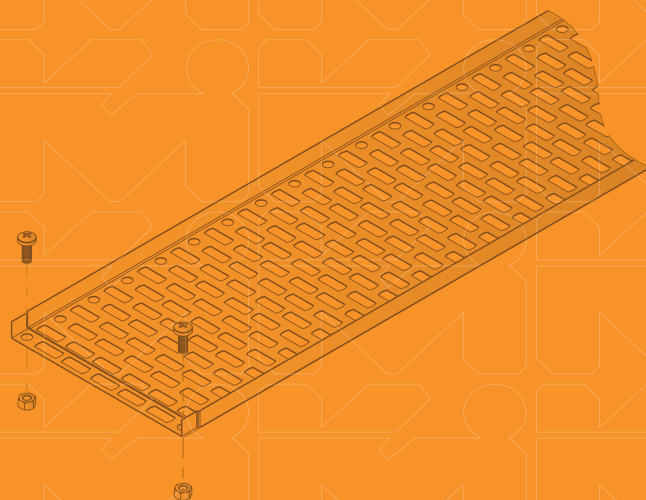
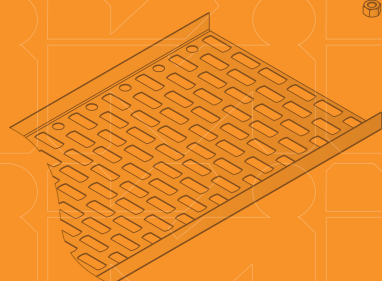
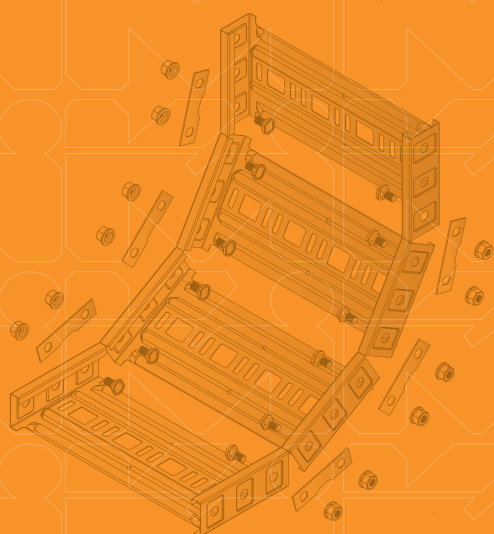
ORDERING INFORMATION



E.&O.E.

SECTION: 2 **Cable Tray**

- Admiralty Pattern Tray
- CP Tray
- Light Duty Tray
- CT Tray
- KT3 Ladder Tray
- KT5 Ladder Tray



ADMIRALTY PATTERN TRAY

General Description

The Kounis Metal Industries Admiralty Pattern Tray system has been designed and developed as an economical option for general purpose applications.

The Tray provides an allowable loading depth of 14mm.

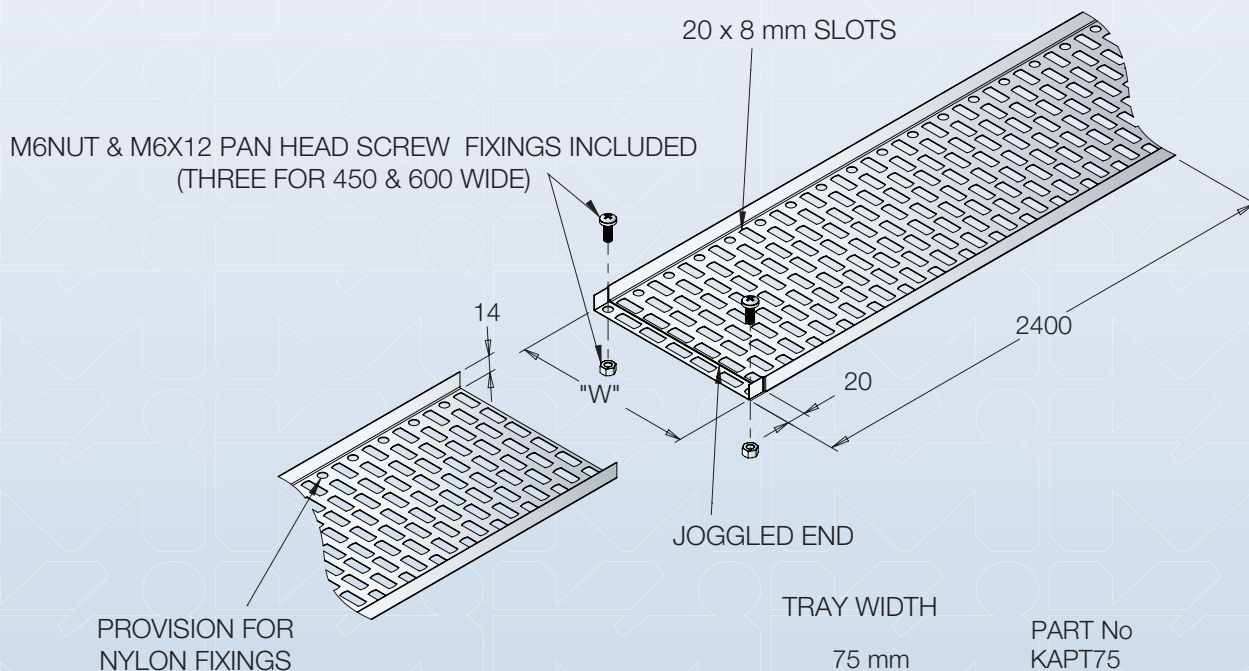
Construction is from 0.55mm thick material.

Some of the features of the Kounis Admiralty Pattern Tray include:-

- Galvabond finish available ex-stock for internal applications.
- Hot Dip Galvanised finish available ex-stock for external applications.
- Joggled end for self splicing.
- Punched slots accept 8mm cable ties.
- Reverse punched to ensure burr free surface therefore minimizing cable damage.
- Pre-punched holes suitable for nylon fixings.
- Admiralty Pattern Tray has a high degree of ventilation and offers versatility for cable attachment.
- Tray is more suitable where supports occur more frequently.

Note: Fittings can be made to order upon request.

ADMIRALTY PATTERN TRAY (KAPT)

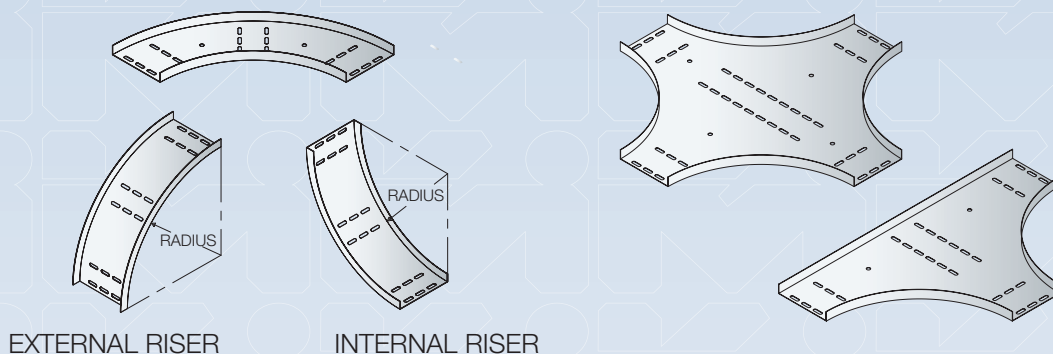


TRAY WIDTH

75 mm
100 mm
150 mm
225 mm
300 mm
450 mm
600 mm

PART No
KAPT75
KAPT100
KAPT150
KAPT225
KAPT300
KAPT450
KAPT600

FITTINGS AVAILABLE ON REQUEST



ORDERING INFORMATION

KAPT B 7 G

FINISH

G = Galvabond
H = Hot Dip Galv
P = Painted

FITTING SIZE e.g. 7 (75 mm)

PRODUCT TYPE

B = Bend
T = TEE
C = Cross
RX = External Riser
RI = Internal Riser

E.&O.E.

KOUNIS ADMIRALTY PATTERN TRAY

CP CABLE TRAY

General Description

Kounis Metal Industries CP (Continuously Punched) Cable Tray System has been designed for use in the shipbuilding and instrumentation fields.

Available in stainless steel and aluminium,

A full range of fittings can be supplied as illustrated.

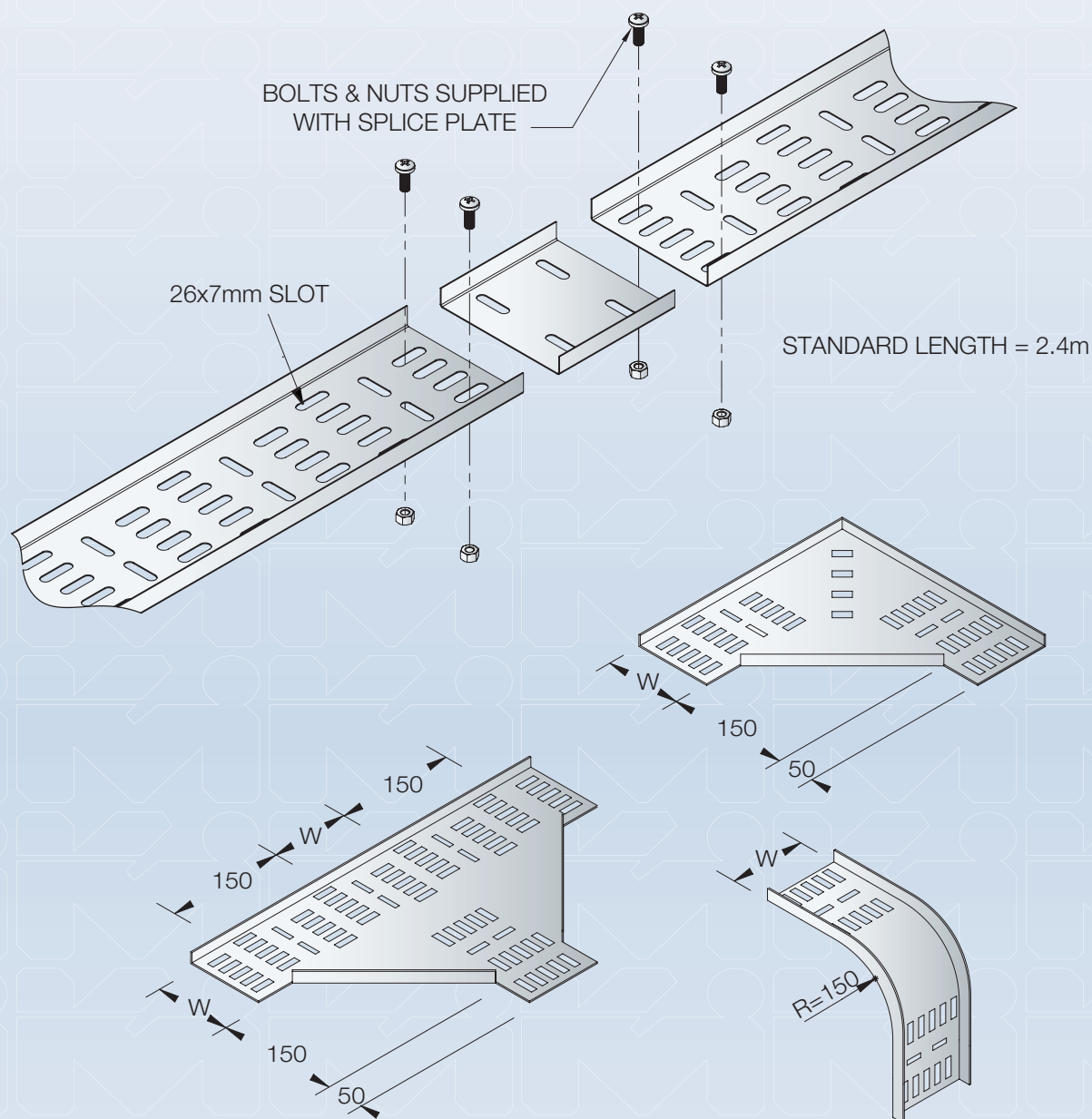
Standard construction is from 0.9mm thick in stainless steel and 2.0mm thick aluminium.

CP cable tray is more suited to smaller cables where the supports occur more frequently.

CP tray has a high degree of ventilation and offers versatility for cable attachment.

For special items, prices are available on application.

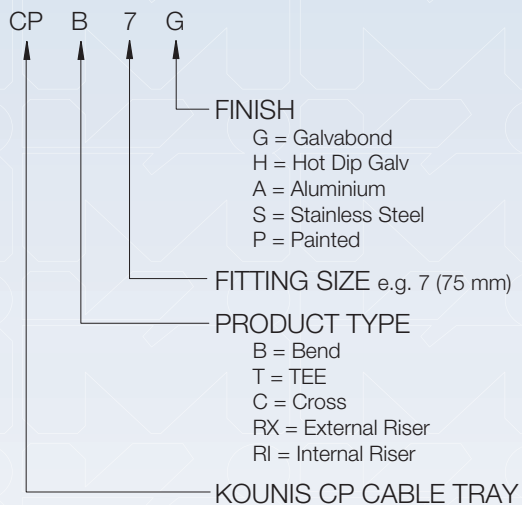
CP CABLE TRAY



ORDERING INFORMATION

STANDARD TRAY WIDTH

"W"	CODE
75	CP7
100	CP10
150	CP15
230	CP23
300	CP30
450	CP45
600	CP60



E.&O.E.

LIGHT DUTY TRAY

The Kounis Metal Industries Light Duty Tray System has been designed with a higher load bearing factor than any comparable Light Duty tray now available.

The tray achieves this due to the 25mm depth and the rolled top lip stiffening.

Standard construction is from Galvabond 0.8mm thick up to 300 wide and 1.0mm thick for other sizes.

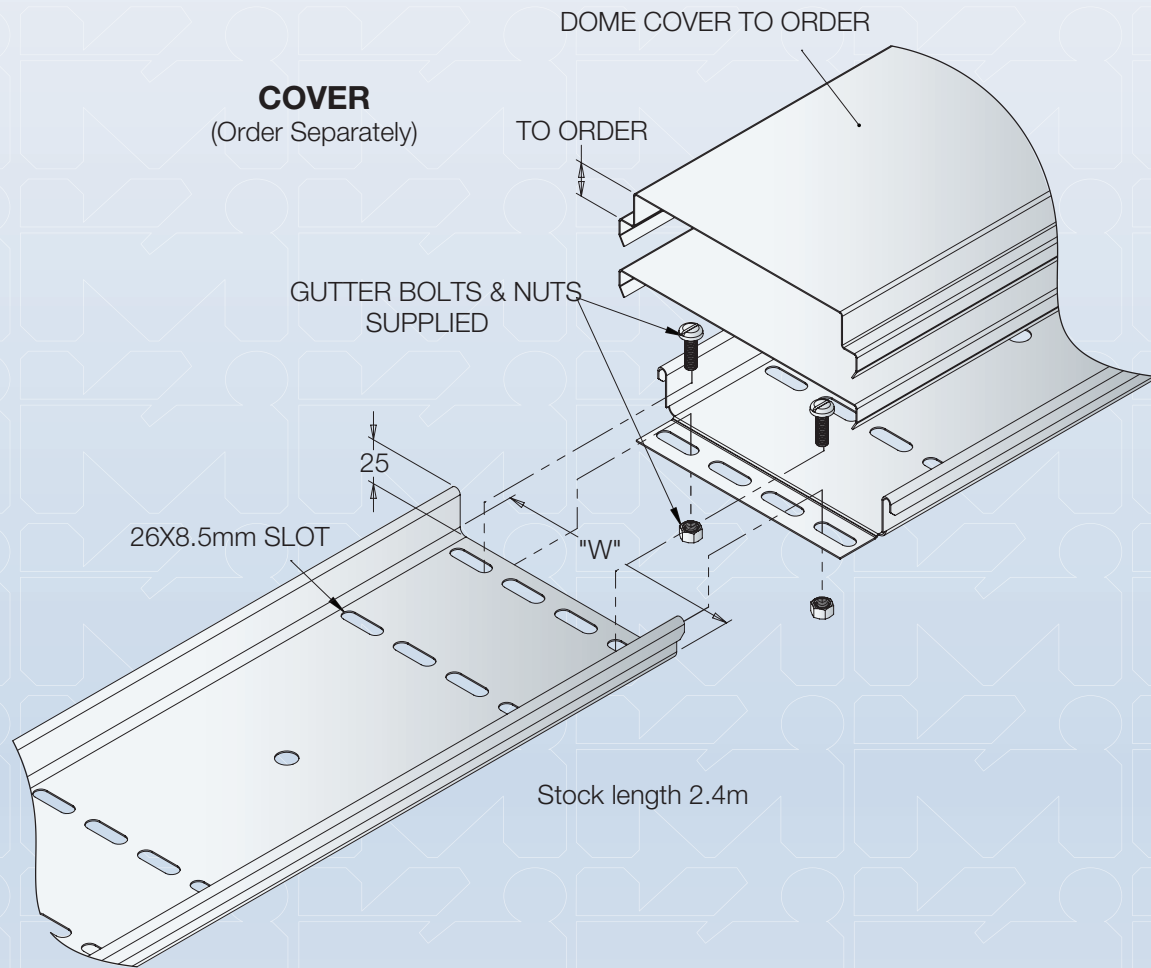
Some of the features of the Kounis Light Duty Tray include:-

- Trays are designed for additional load bearing.
- A rolled top lip giving extra rigidity to the tray and providing a safe edge to drop cables from the tray.
- The trays are self splicing, so giving a quick and cost effective installation.
- All cable trays are pre-punched with a central hole, spaced along the length of tray, for drop rod fixing, giving time and installation cost savings.
- All fittings are based on 300mm radius so covering a larger range of cable sizes.

A range of Aluminium and Grade 316 Stainless Steel trays are also stocked to complement the range of Light Duty Tray. Trays can also be supplied with a Hot Dipped Galvanised finish.

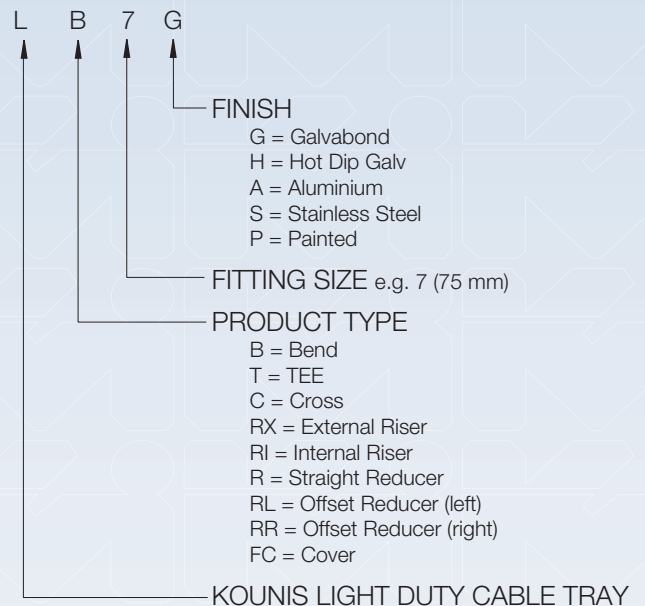
Note: Special fittings can also be made to order.

LIGHT DUTY TRAY



ORDERING INFORMATION

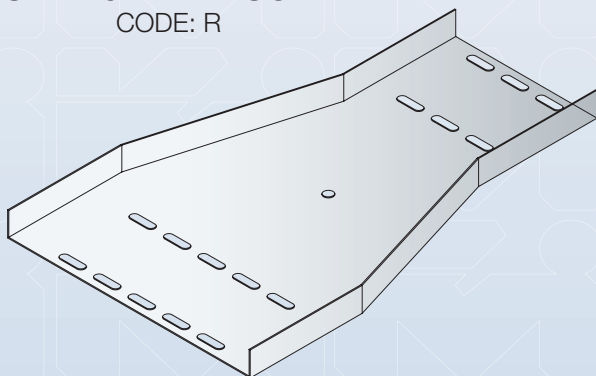
TRAY WIDTH "W"	CODE
75	L7
100	L10
150	L15
230	L23
300	L30
450	L45
600	L60



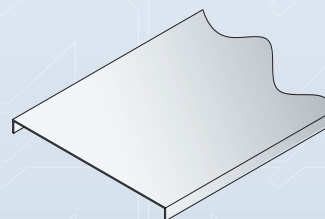
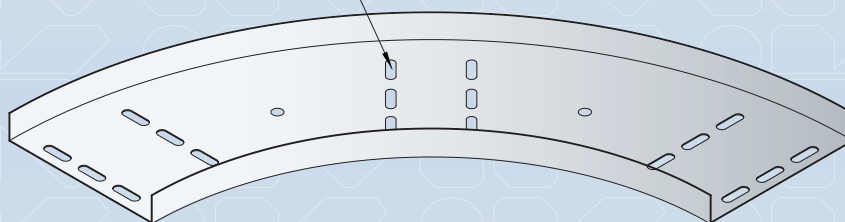
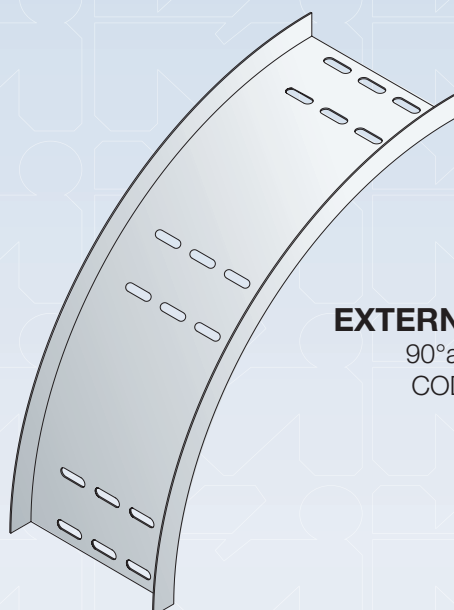
E.&O.E.

Light Duty Tray **STANDARD FITTING****STRAIGHT REDUCER**

CODE: R

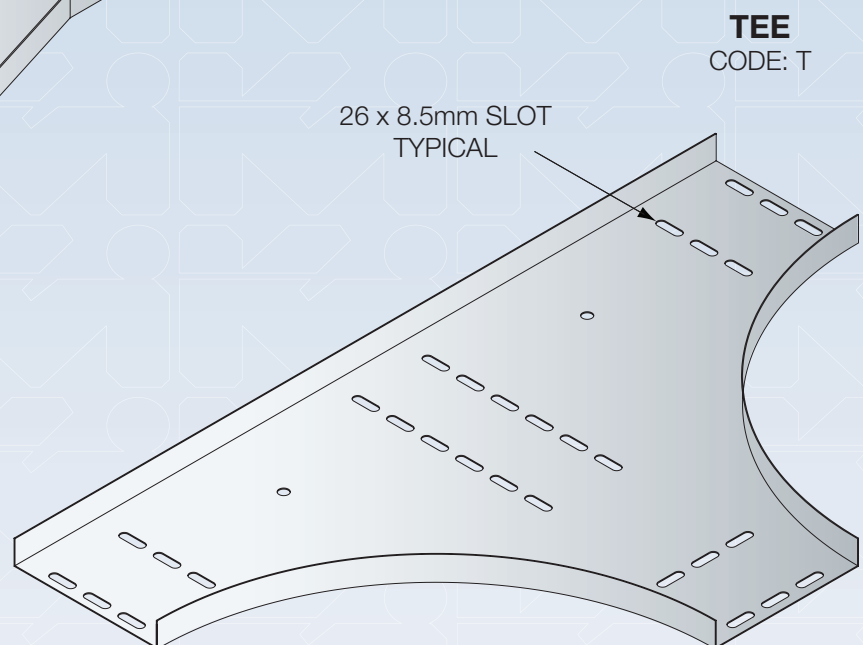
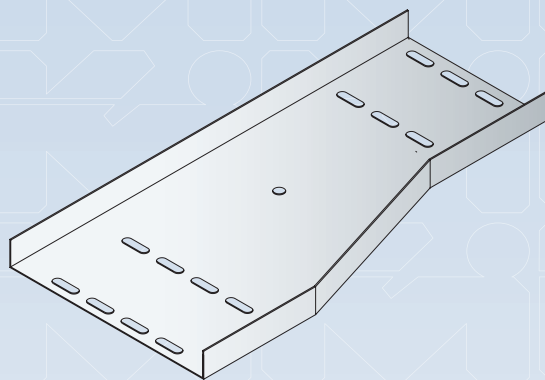
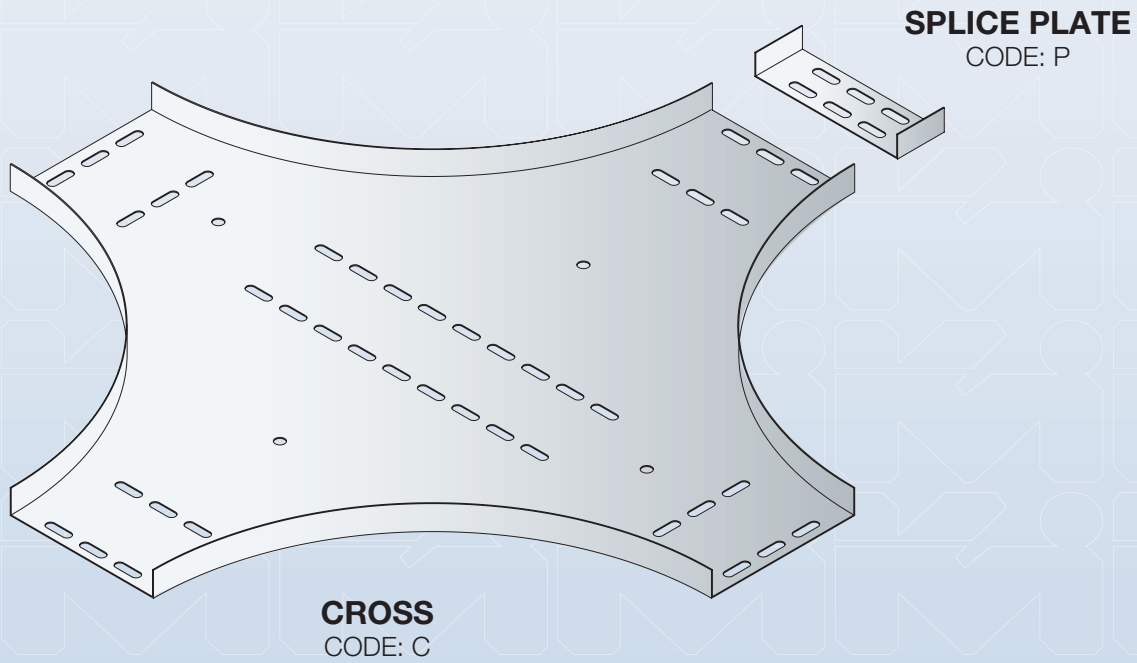
**FLAT COVER**

CODE: FC

26 x 8.5mm SLOT
TYPICAL**BEND**90° and 45°
CODE: B**EXTERNAL RISER**90° and 45°
CODE: RX**INTERNAL RISER**90° and 45°
CODE: RI

E.&O.E.

Light Duty Tray **STANDARD FITTINGS**



E.&O.E.

CT CABLE TRAY

General Description

Kounis Metal Industries have introduced a Heavy Duty Cable Tray made from 1.6mm thick material.

Type CT is a heavy duty tray ideal for offshore applications and where tensile strength and corrosion resistance are required.

The cable tray features a top return flange which gives extra load bearing characteristics and no sharp edges to damage cables. The cable tray is fully perforated with slots running lengthwise to enable wider cable bandings to be used and to give good ventilation for the cables.

A full range of fittings and covers can be supplied to suit.

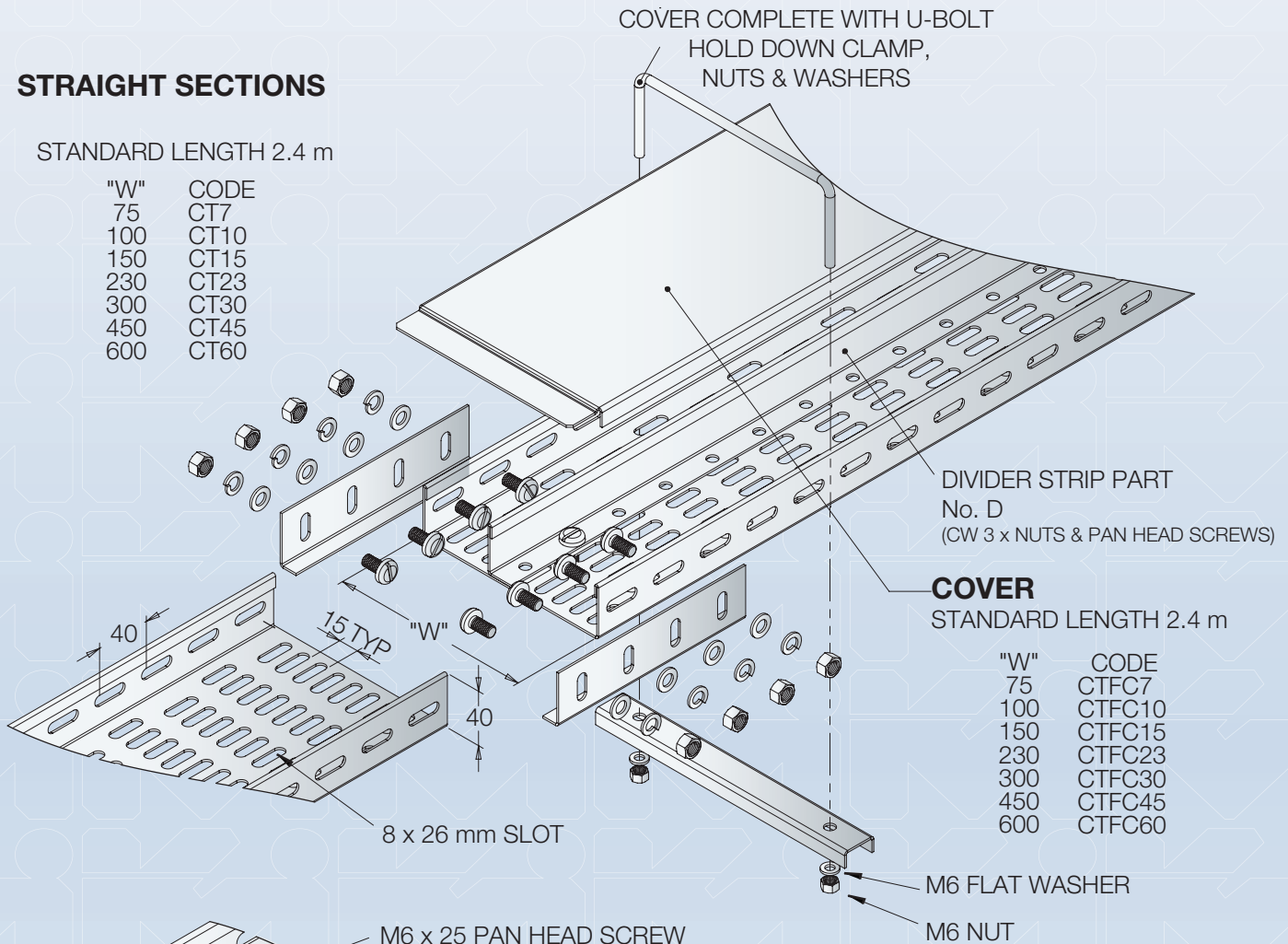
Available in 316 stainless steel and Hot Dip Galvanised.

CT CABLE TRAY

STRAIGHT SECTIONS

STANDARD LENGTH 2.4 m

"W"	CODE
75	CT7
100	CT10
150	CT15
230	CT23
300	CT30
450	CT45
600	CT60



M6 x 25 PAN HEAD SCREW
CTS/BOLT

40 x 3mm
INSULATING STRIP
CTS/PAD

TOP HAT
INSULATOR
CTS/BUSH

M6 WASHER
M6 SPRING WASHER
M6 NUT

FIXING AND INSULATION WHERE
DISSIMILAR MATERIALS ARE USED

ORDERING INFORMATION

CT B 75 G

FINISH
G = Galvabond
H = Hot Dip Galv
A = Aluminium
S = Stainless Steel
P = Painted

FITTING SIZE e.g. 7 (75 mm)

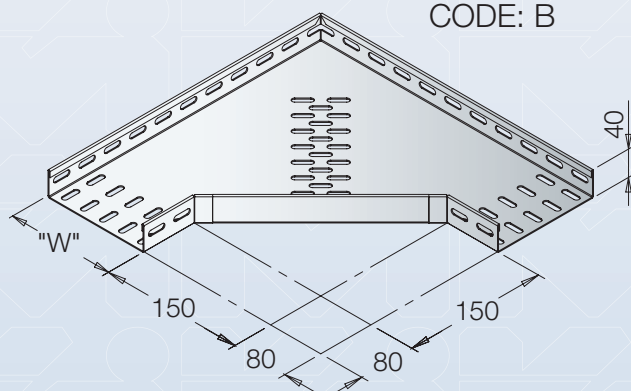
PRODUCT TYPE
B = Bend
T = TEE
C = Cross
RX = External Riser
RI = Internal Riser
UP = Hinged Joint
R = Straight Reducer
RL = Offset Reducer (left)
RR = Offset Reducer (right)
FC = Cover
D = Divider

KOUNIS CT CABLE TRAY

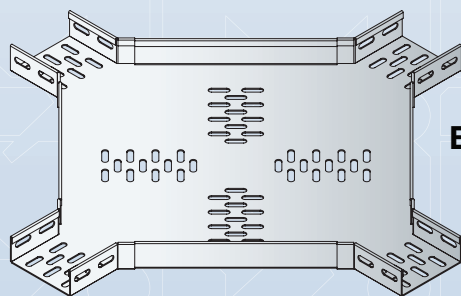
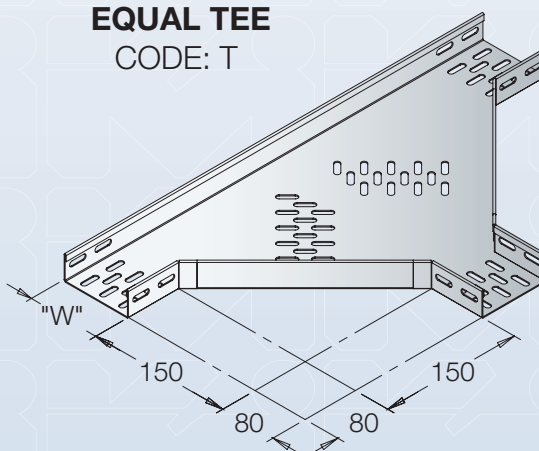
E.&O.E.

CT Cable **TRAY FITTINGS****90 DEG BEND**

CODE: B

**EQUAL TEE**

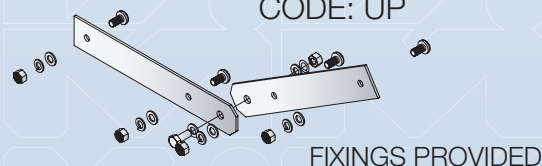
CODE: T

**EQUAL CROSS**

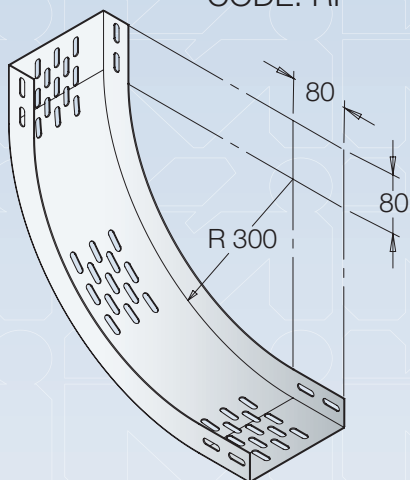
CODE-CTC

HINGED JOINT

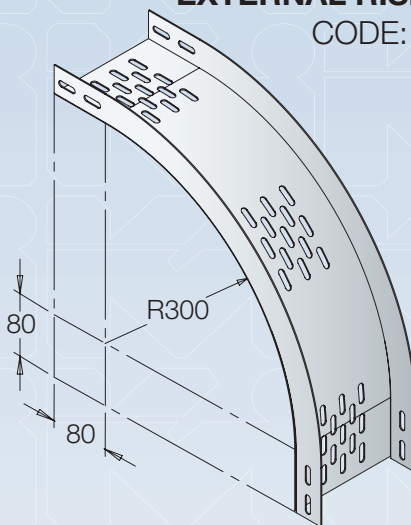
CODE: UP

**INTERNAL RISER 300 RAD**

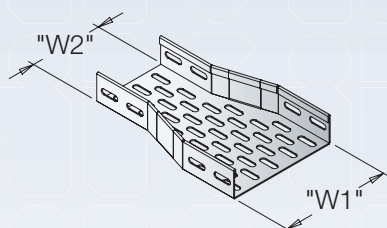
CODE: RI

**EXTERNAL RISER 300 RAD**

CODE: RX

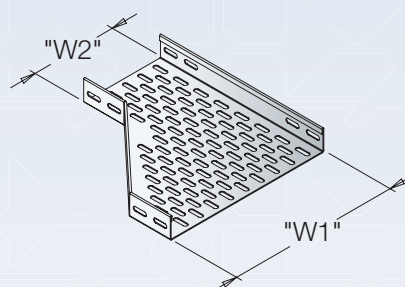
**STRAIGHT REDUCER**

CODE: R

**OFFSET REDUCER**

CODE-RL

(RIGHT HAND SHOWN LEFT HAND OPPOSITE)



E.&O.E.

LADDER TRAY

General Description

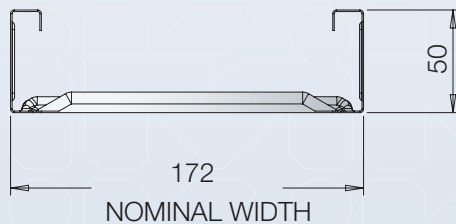
The Kounis Metal Industries Ladder Tray system was developed for commercial and industrial applications and stands alone with superior engineering characteristics and performance attributes.

The product is stocked in Galvabond material for internal use and Hot Dip Galvanised for external applications.

Some of the features of the Kounis Ladder Tray system include:-

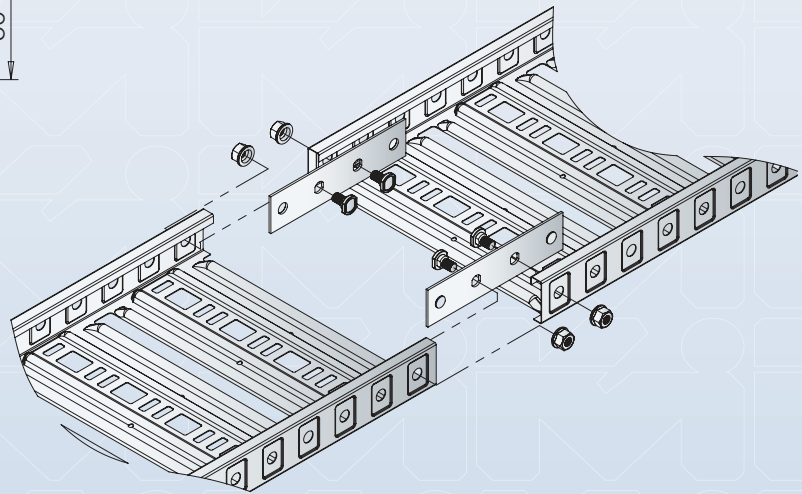
- A full range of easy to use accessories and minimal tool requirements for rapid on-site fabrication of directional changes eliminates the need to order special fittings.
- Rung punch design allows easier cable tying in restricted areas.
- Improved air flow due to the rung punch design ensures minimal cable de-rating.
- Available in four sizes 150mm, 300mm, 450mm, 600mm and manufactured in three metre lengths.
- Drain holes are provided for dissipation of moisture in external applications.
- A full range of covers are available ex-stock for protection from debris, Ultraviolet light and weather elements.
- Barrier strip is available ex stock for multiple service segregation.

KT3 LADDER TRAY

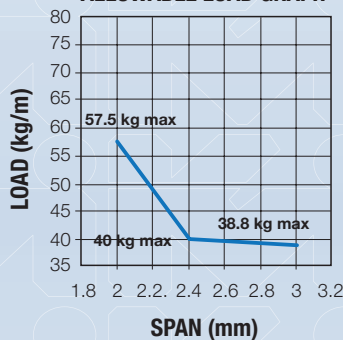


STANDARD TRAY WIDTH x 3m

WIDTH	CODE
150	KT3-15
300	KT3-30
450	KT3-45
600	KT3-60

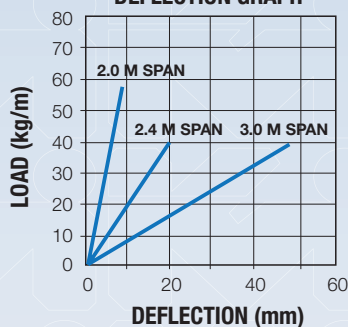


ALLOWABLE LOAD GRAPH



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

DEFLECTION GRAPH



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

ORDERING INFORMATION

KT 3 15 G

FINISH

G = Galvabond
H = Hot Dip Galv

TRAY WIDTH – ACCESSORY

150, 300, 450, 600
SP = Splice Plate
LP = Riser Link Plate
BP = Bend Plate
RP = Radius Plate
TX = Tee/Cross Bracket
HDC = Hold Down Clamp
IHD = Internal Hold Down Clamp
BS = Barrier Strip
B = Zinc Plated Bolt
N = Zinc Plated Nut

TRAY TYPE 3 (50 mm high)

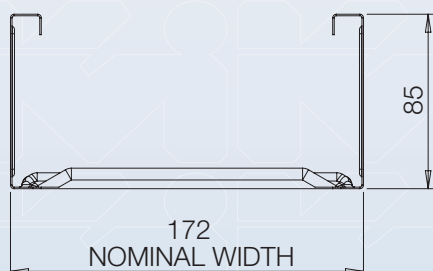
KOUNIS KT LADDER TRAY

The load and deflection graphs apply to all widths of Kounis Ladder Tray. All results were determined in accordance with NEMA VE-1 and verified by testing on single spans. The allowable loads include a Safety factor of 1.5 over collapse load for a single span. For continuous tray installations the loads shown should be multiplied by a factor of approx 1.25 times. Tray deflections are also influenced by the positioning of the tray connectors and loading placement. Please refer to NEMA VE-2 for installation guidelines.

TEST DATA _____

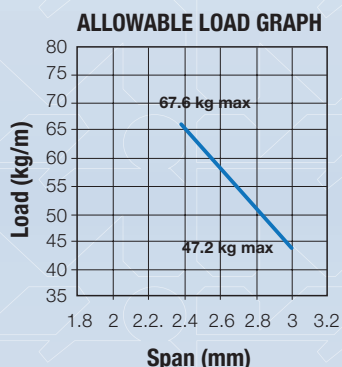
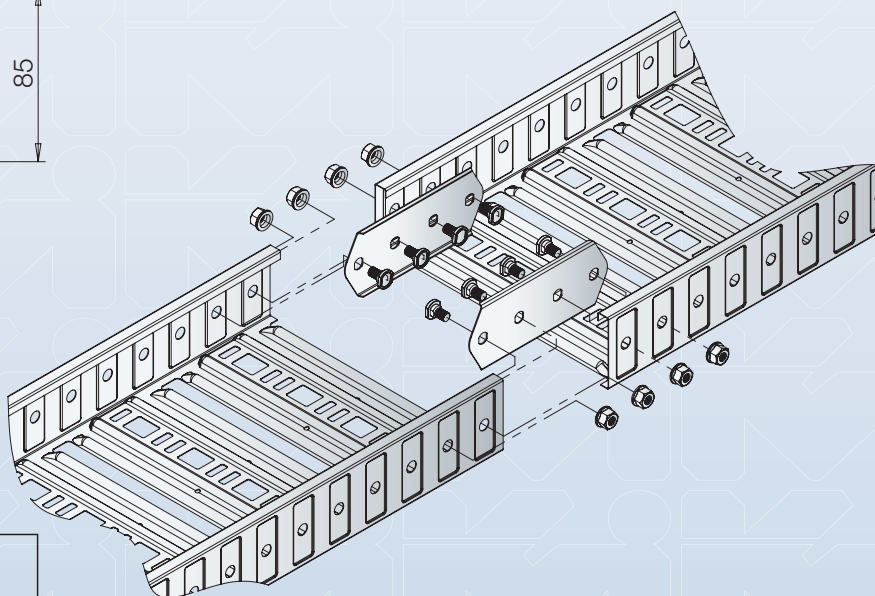
E.&O.E.

KT5 LADDER TRAY

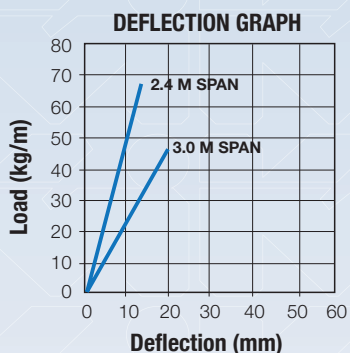


STANDARD TRAY WIDTH x 3 m

WIDTH	CODE
150	KT5-15
300	KT5-30
450	KT5-45
600	KT5-60



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

ORDERING INFORMATION

KT 5 15 G

FINISH

G = Galvabond
H = Hot Dip Galv

TRAY WIDTH – ACCESSORY

150, 300, 450, 600
SP = Splice Plate
LP = Riser Link Plate
BP = Bend Plate
RP = Radius Plate
TX = Tee/Cross Bracket
HDC = Hold Down Clamp
IHD = Internal Hold Down Clamp
BS = Barrier Strip
B = Zinc Plated Bolt
N = Zinc Plated Nut

TRAY TYPE 5 (85 mm high)

KOUNIS KT LADDER TRAY

The load and deflection graphs apply to all widths of Kounis Ladder Tray. All results were determined in accordance with NEMA VE-1 and verified by testing on single spans. The allowable loads include a Safety factor of 1.5 over collapse load for a single span. For continuous tray installations the loads shown should be multiplied by a factor of approx 1.25 times. Tray deflections are also influenced by the positioning of the tray connectors and loading placement. Please refer to NEMA VE-2 for installation guidelines.

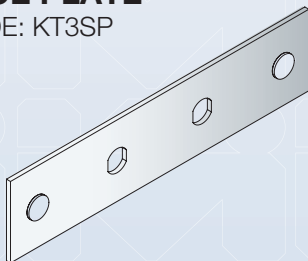
TEST DATA _____

E.&O.E.

KT3 Ladder Tray **ACCESSORIES**

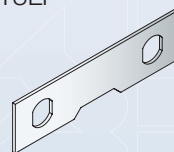
SPLICE PLATE

CODE: KT3SP



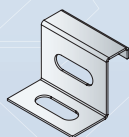
RISER LINK PLATE

CODE: KT3LP



HOLD DOWN CLAMP

CODE: KT3HDC



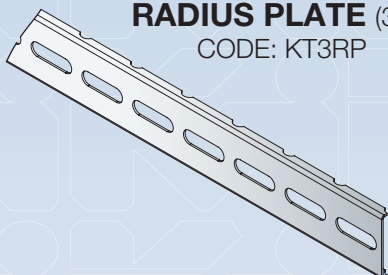
T-X BRACKET

CODE: KT3TX



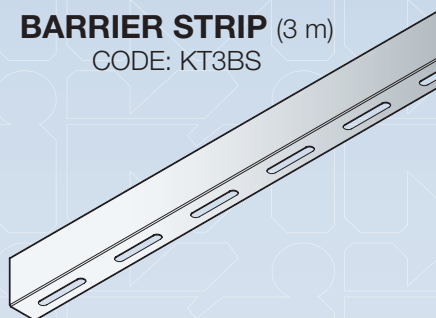
RADIUS PLATE (3 m)

CODE: KT3RP



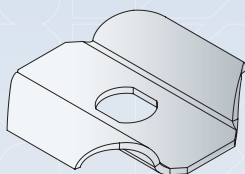
BARRIER STRIP (3 m)

CODE: KT3BS



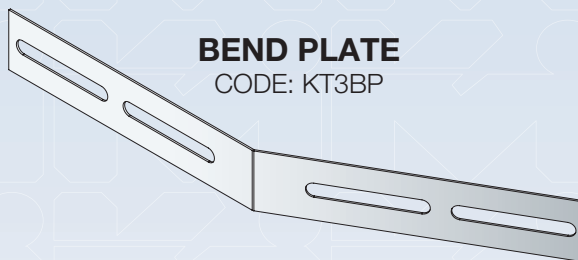
INTERNAL HOLD DOWN CLAMP

CODE: KT3IHD



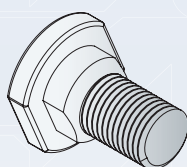
BEND PLATE

CODE: KT3BP



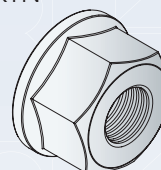
BOLT

CODE: KTB



NUT

CODE: KTN

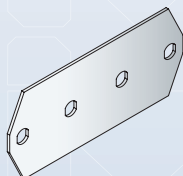


E.&O.E.

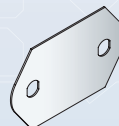
KT5 Ladder Tray **ACCESSORIES**

SPLICE PLATE

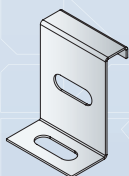
CODE: KT5SP


RISER LINK PLATE

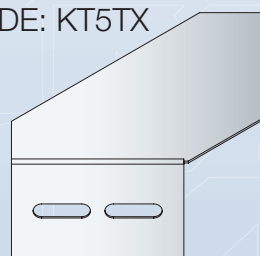
CODE: KT5LP


HOLD DOWN CLAMP

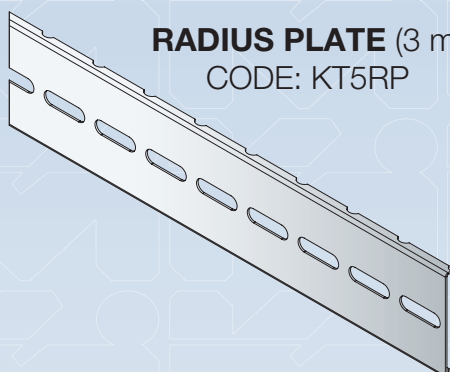
CODE: KT5HDC


TX-BRACKET

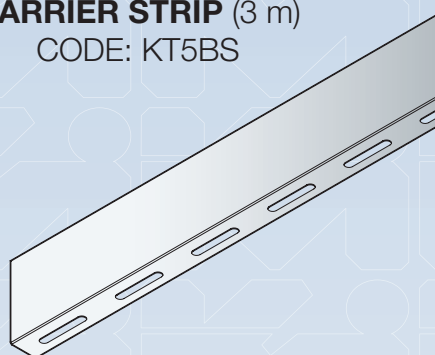
CODE: KT5TX


RADIUS PLATE (3 m)

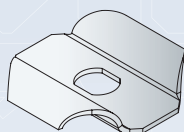
CODE: KT5RP


BARRIER STRIP (3 m)

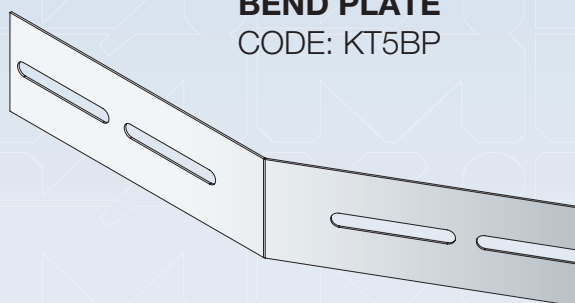
CODE: KT5BS


**INTERNAL
HOLD DOWN CLAMP**

CODE: KT5IHD


BEND PLATE

CODE: KT5BP


BOLT

CODE: KTB


NUT

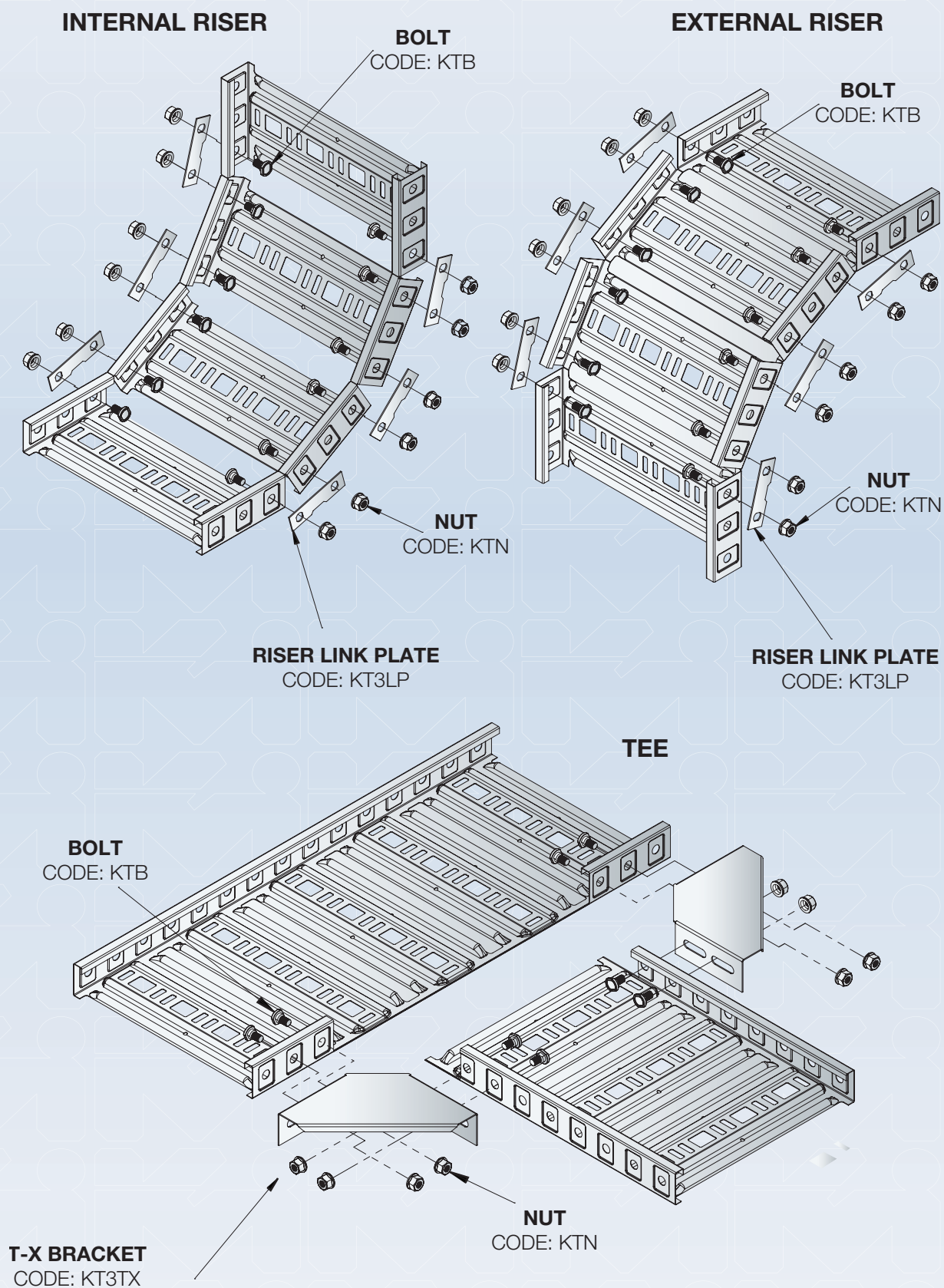
CODE: KTN



E. & O.E

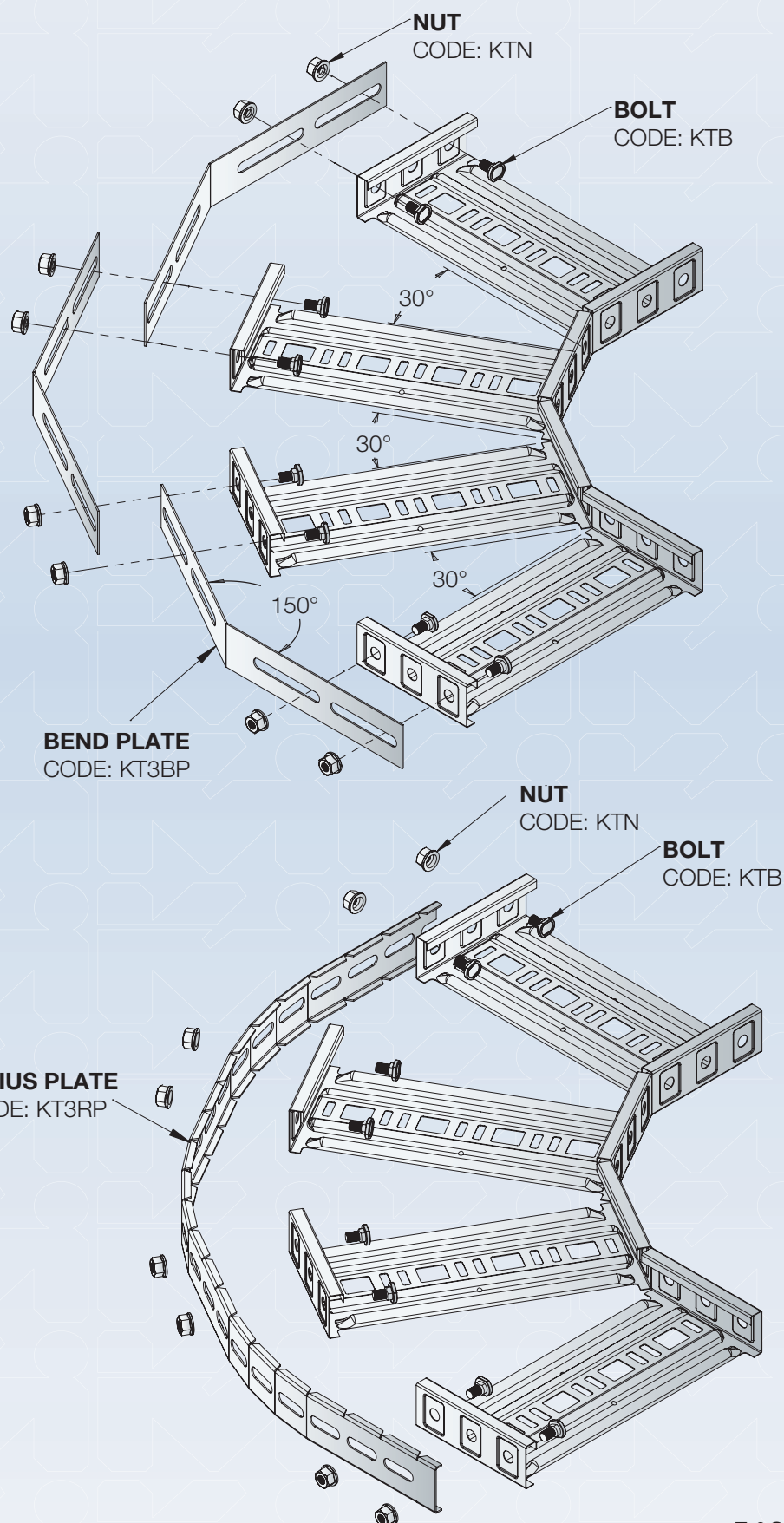
KT3 & KT5 Ladder Tray

RISER & TEE GENERAL ASSEMBLY



E.&O.E.

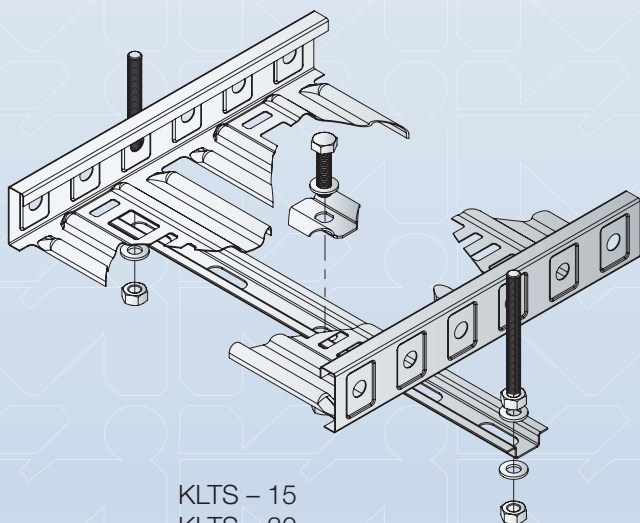
KT3 & KT5 Ladder Tray BENDS GENERAL ASSEMBLY



E.&O.E.

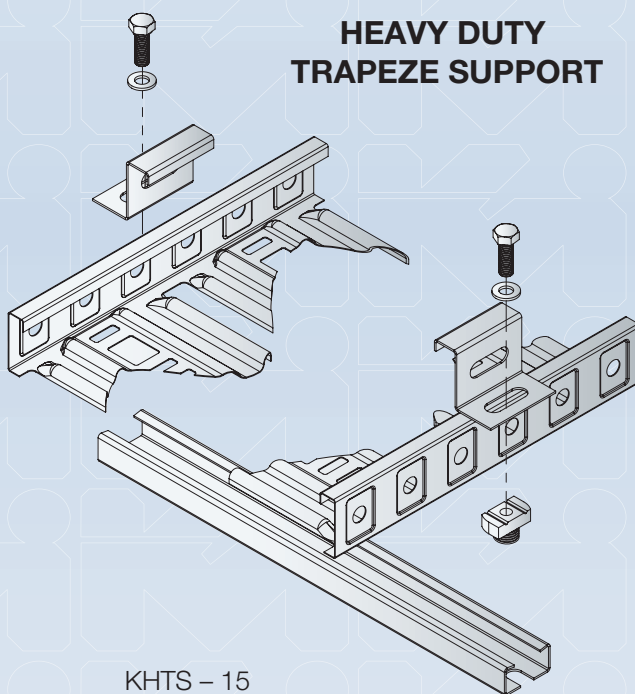
Ladder Tray **SUPPORT OPTIONS**

LIGHT DUTY TRAPEZE SUPPORT



KLTS – 15
KLTS – 30
KLTS – 45
KLTS – 60

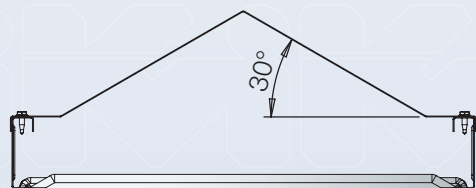
HEAVY DUTY TRAPEZE SUPPORT



KHTS – 15
KHTS – 30
KHTS – 45
KHTS – 60

E.&O.E.

Ladder Tray **COVERS**



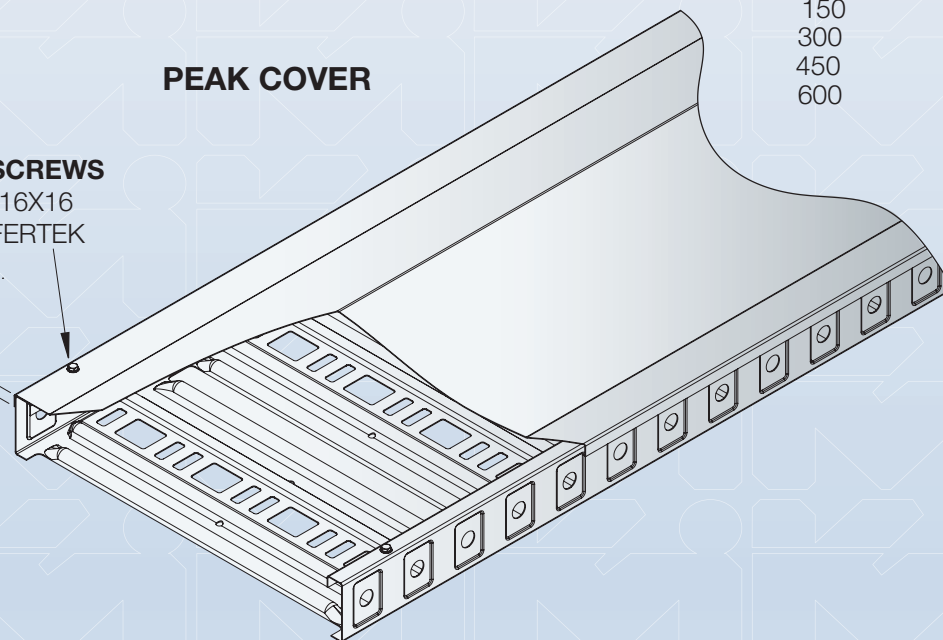
PEAK COVER

STANDARD COVER WIDTH X 3.0m LONG
MATERIAL 0.6mm GALVABOND

WIDTH	CODE
150	KTPC15
300	KTPC30
450	KTPC45
600	KTPC60

TEK SCREWS
10-16X16
WAFERTEK

10

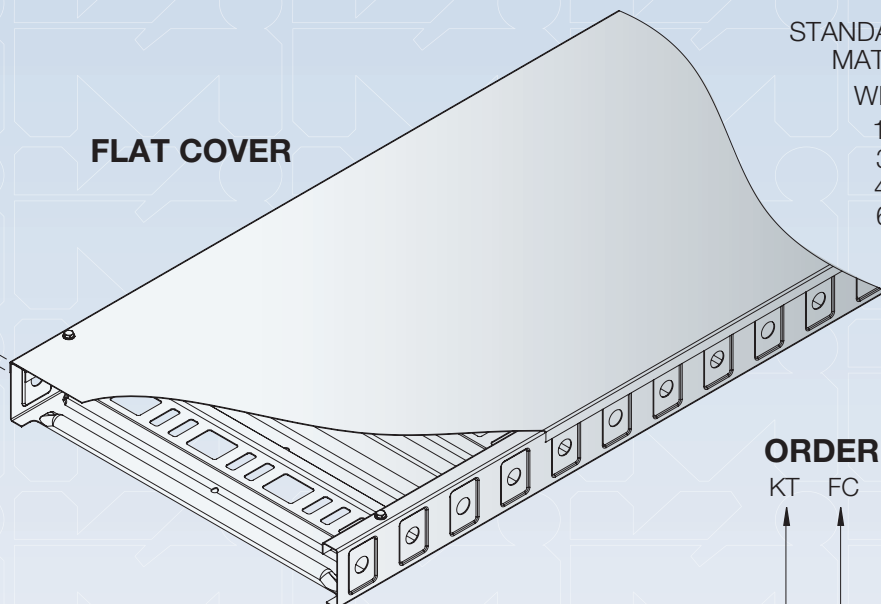


FLAT COVER

STANDARD COVER WIDTH X 3.0m LONG
MATERIAL 0.6mm GALVABOND

WIDTH	CODE
150	KTFC15
300	KTFC30
450	KTFC45
600	KTFC60

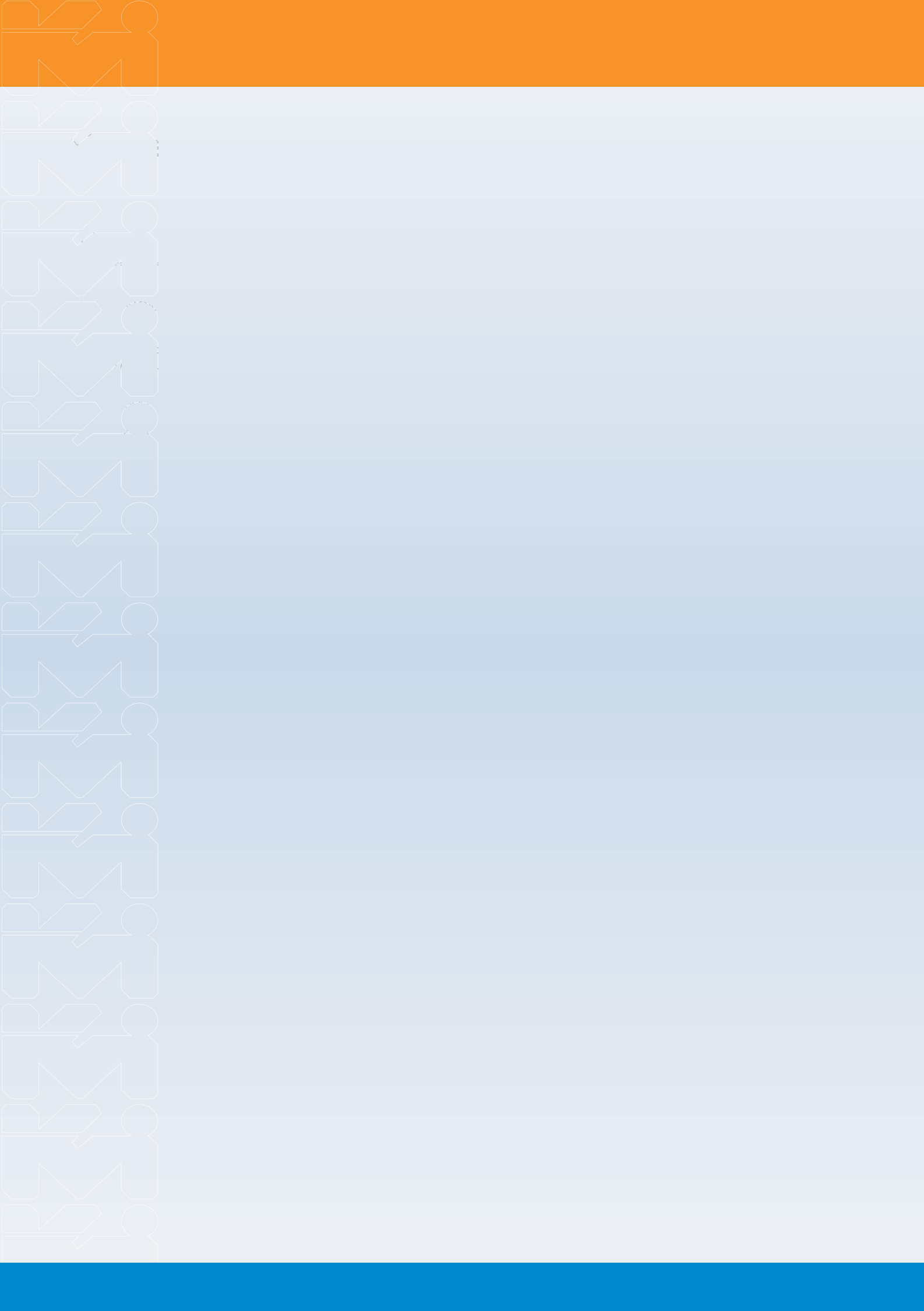
10



ORDERING INFORMATION

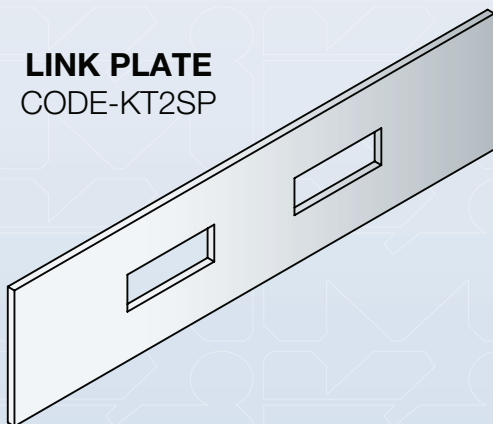
KT FC 15 G
 ↑ ↑ ↑ ↑
 KOUNIS KT LADDER TRAY COVER TYPE SIZE e.g. 15 (150 mm) FINISH
 FC = Flat Cover H = Hot Dip Galv
 PC = Peak Cover

E.&O.E.

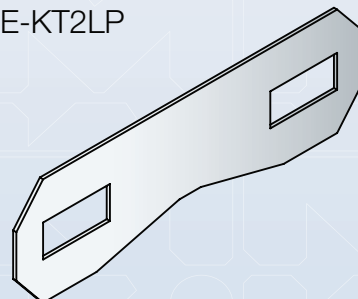


KT2 Ladder Tray **ACCESSORIES**

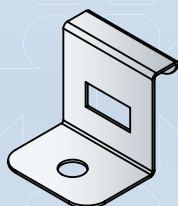
LINK PLATE
CODE-KT2SP



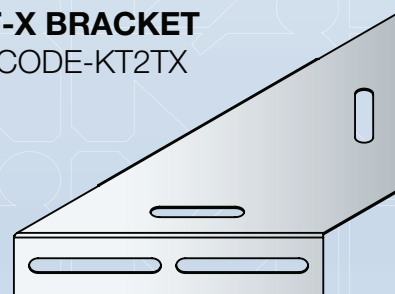
RISER LINK PLATE
CODE-KT2LP



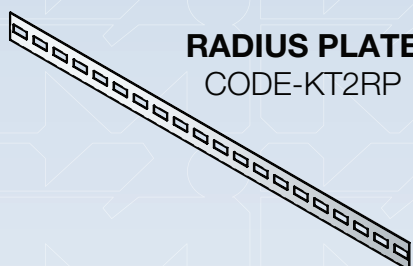
HOLD DOWN CLAMP
CODE-KT2HDC



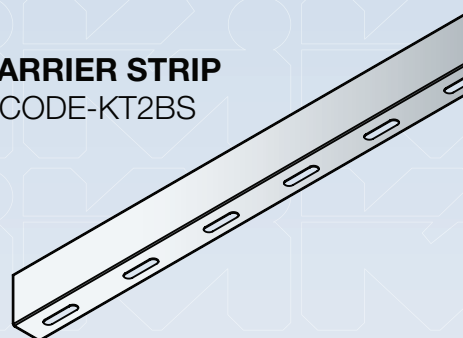
T-X BRACKET
CODE-KT2TX



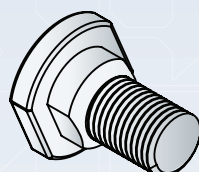
RADIUS PLATE
CODE-KT2RP



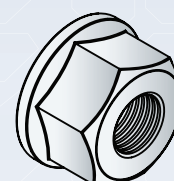
BARRIER STRIP
CODE-KT2BS



BOLT
CODE-KTB



NUT
CODE-KTN



E.&O.E.

SECTION: 3 **Cable Ladder**

(Hot Dip Galvanised)

- 3/50 (NEMA 16A)
- 4/70/L (NEMA 20B)
- 4/70 (NEMA 20B)
- 5/112 (NEMA 20C)
- Cable Ladder Fittings
- Cable Ladder Splice Plates
- Accessories



CABLE LADDER
(HOT DIP GALVANISED)

CABLE LADDER

(Hot Dip Galvanised)

General Description

The Kounis Metal Industries Standard Range Cable Ladder Systems were developed for use in commercial, mining and industrial plants.

It's superior support strength and open ventilation allows for the economical installation of power cables and pipe runs.

Standard construction is steel, hot dip galvanised.

A range of four types of ladder are available to cover a wide range of requirements.

Some of the features of the Kounis Standard Range Cable Ladder types 3/50 (NEMA 16A), 4/70L (NEMA 20B), 4/70 (NEMA 20B) & 5/112 (NEMA 20C) include:-

- Self splicing Bends, Risers and Tees.
- Available rail in or rail out.
- Each ladder and associated fitting has an earth hole at the ends for earthing connections.
- Rungs are channel type giving additional strength for loading.
- Ladder hold down clamp assemblies can be supplied in either standard or cyclonic type.

Fittings are supplied in 300mm inside radius in WA and 450mm inside radius in other states. For heavier power cables, 600 or 900 radius can be supplied to order.

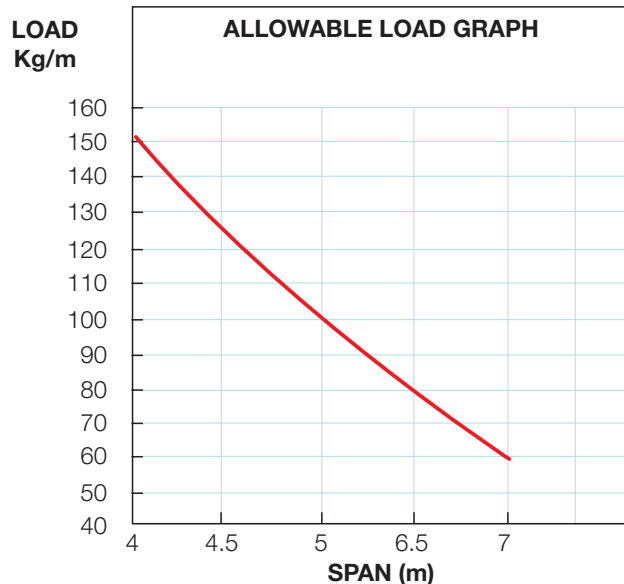
For load capacities see Cable Ladder Load Charts which also give deflections.

Tested by Curtin University to Nema VE1 Standards
Full engineering details available.

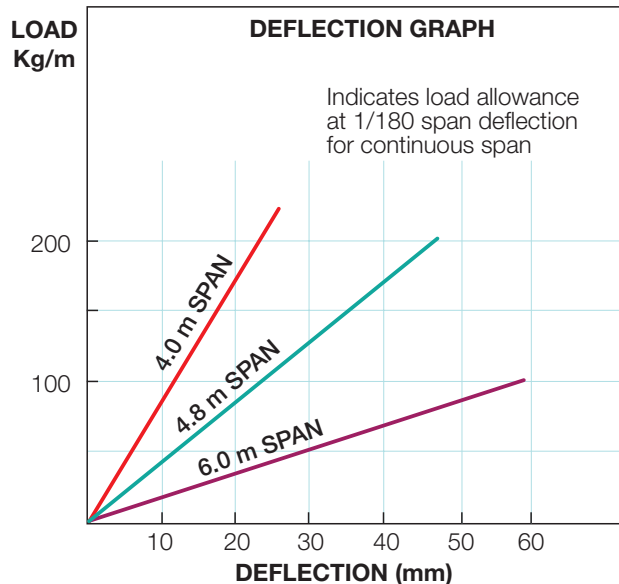
E.&O.E.

Cable Ladder **MEDIUM TO HEAVY DUTY** **TYPE 3/50 (NEMA 16A)** **1.6mm STEEL**

(Tested by Curtin University to NEMA VE1 standards)
Full engineering details available.



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



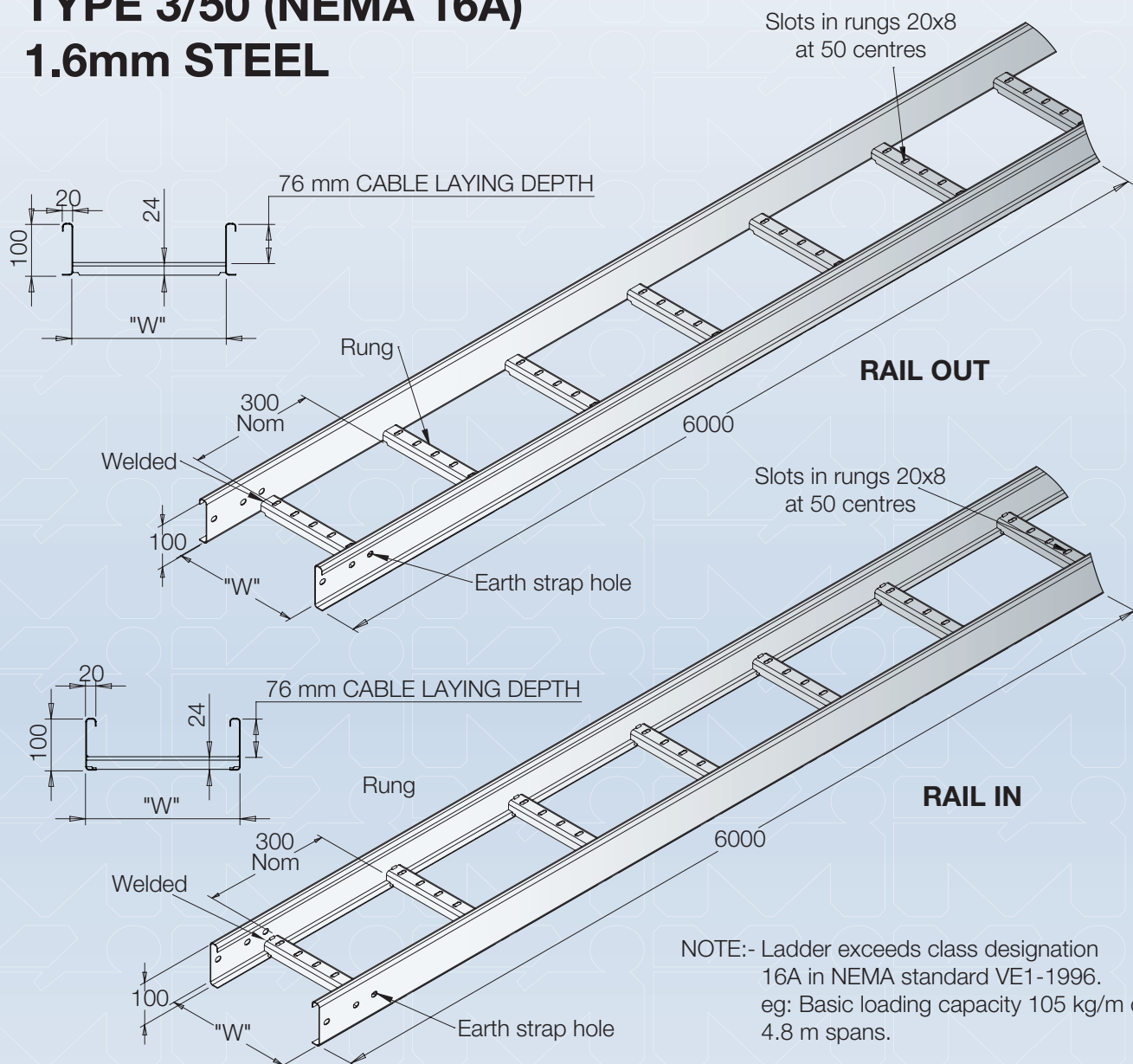
Deflections shown apply to the end bays (worst case) of a continuous ladder run.
To find deflection of a single span, multiply by 2.5.

SPECIFICATION

Class designation:	Cable Ladder-medium to heavy duty type 3/50 NEMA classification 16A.
Material:	Steel sheet.
Finish:	Hot dipped galvanised after fabrication to AS/NZS 4680 i.e. 390 gm/m ² 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 and hold down clamps.

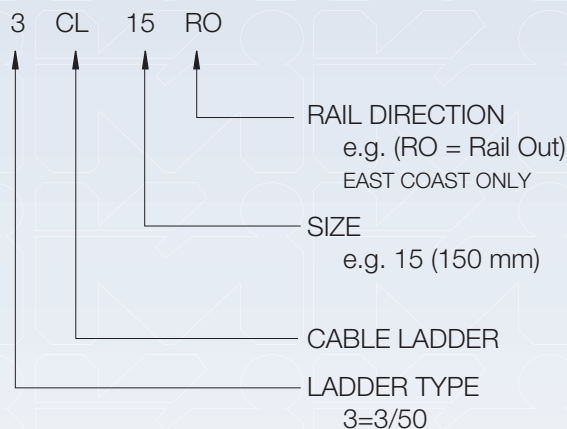
E.&O.E.

Cable Ladder **MEDIUM TO HEAVY DUTY** **TYPE 3/50 (NEMA 16A)** **1.6mm STEEL**



NOTE:- Ladder exceeds class designation 16A in NEMA standard VE1-1996.
eg: Basic loading capacity 105 kg/m on 4.8 m spans.

ORDERING INFORMATION



STANDARD WIDTH

"W"
150
300
450
600

CODE

RAIL IN
3CL15
3CL30
3CL45
3CL60

CODE

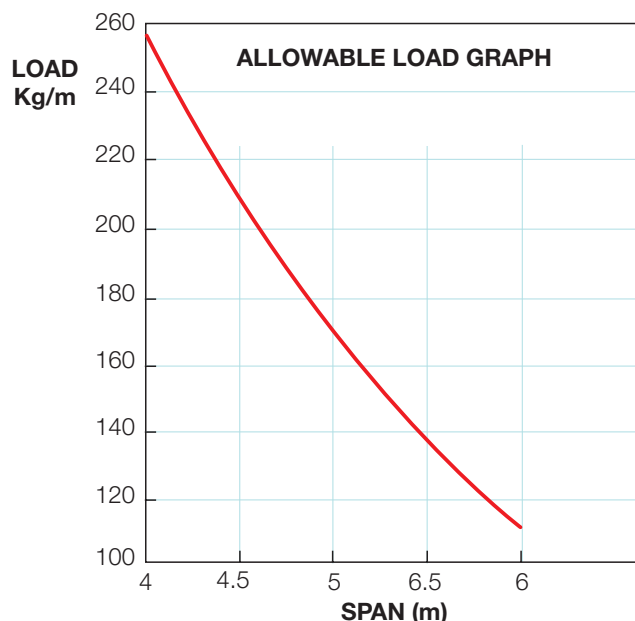
RAIL OUT
3CL15/RO
3CL30/RO
3CL45/RO
3CL60/RO

NOTE:- For ladders side by side allow clearance for splice plates and fixings.

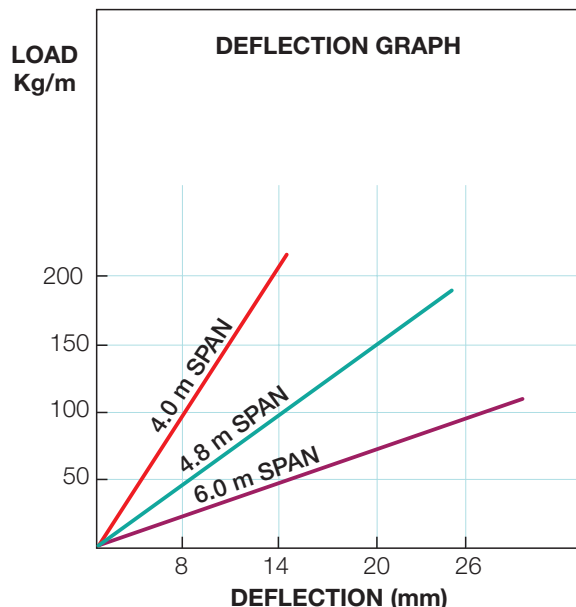
E.&O.E.

Cable Ladder **HEAVY DUTY** **TYPE 4/70L (NEMA 20B)** **1.6mm STEEL**

(Tested by Curtin University to NEMA VE1 standards)
Full engineering details available.



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



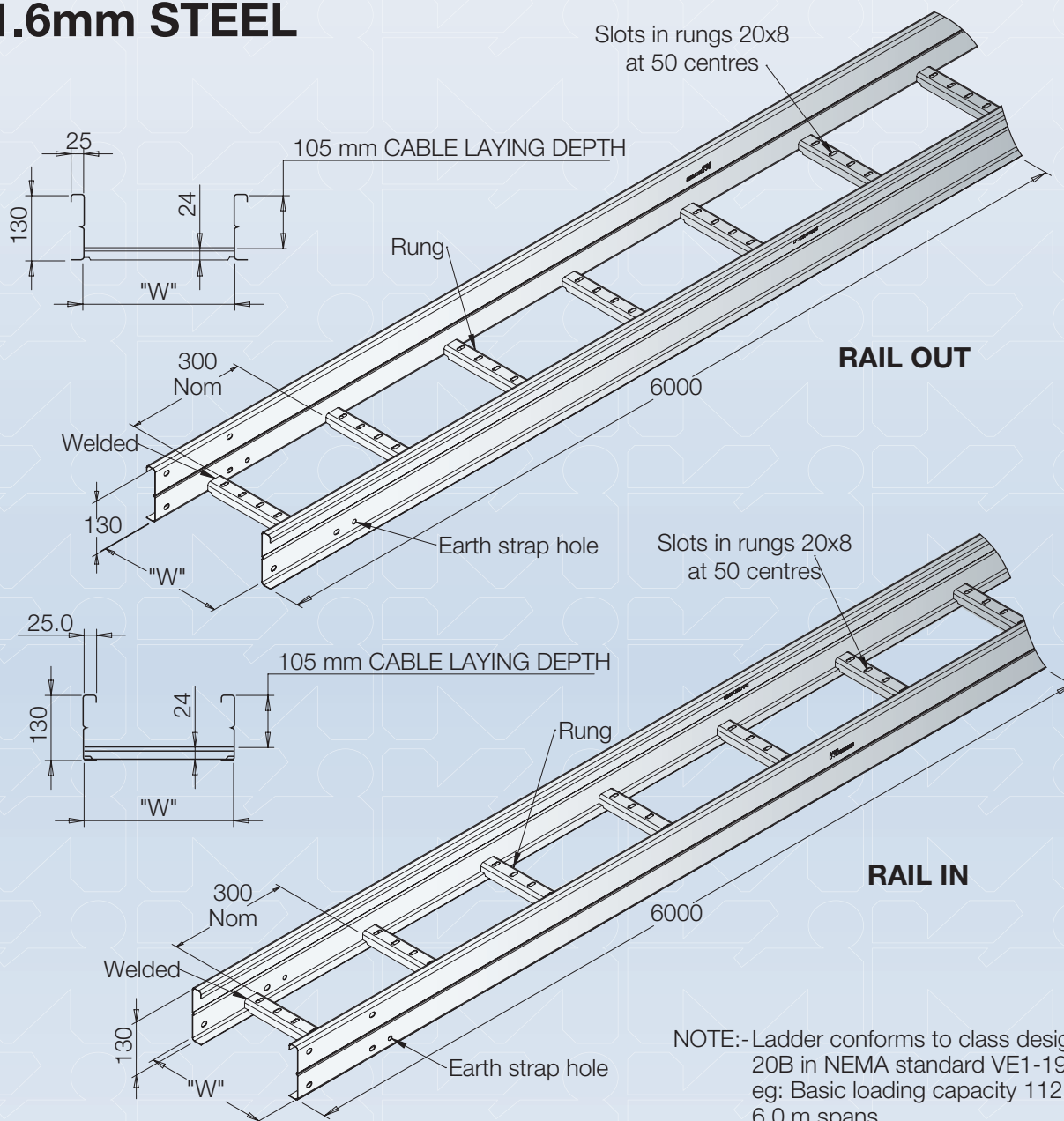
Deflections shown apply to the end bays (worst case) of a continuous ladder run.
To find deflection of a single span, multiply by 2.5.

Specification

Class designation:	Cable Ladder-heavy duty type 4/70L NEMA classification 20B.
Material:	Steel sheet.
Finish:	Hot dipped galvanised after fabrication. AS/NZS 4680 i.e. 390 gm/m ² 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 and hold down clamps.

E.&O.E.

Cable Ladder **HEAVY DUTY** **TYPE 4/70L (NEMA 20B)** **1.6mm STEEL**



ORDERING INFORMATION

4 CLL 15 RO

↑
↑
↑
↑
↑

RAIL DIRECTION
e.g. (RO = Rail Out)
EAST COAST ONLY

SIZE
e.g. 15 (150 mm)

CABLE LADDER 1.6 mm

LADDER TYPE
4 = 4/70

STANDARD WIDTH

"W"
150
300
450
600

CODE

RAIL IN
4CLL15
4CLL30
4CLL45
4CLL60

CODE

RAIL OUT
4CLL15/RO
4CLL30/RO
4CLL45/RO
4CLL60/RO

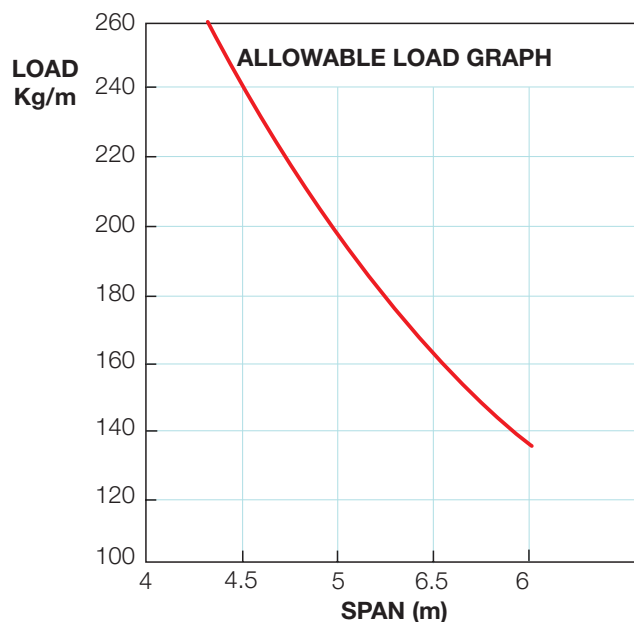
NOTE:- For ladders side by side allow clearance for splice plates and fixings.

NOTE:- Ladder conforms to class designation 20B in NEMA standard VE1-1996.
eg: Basic loading capacity 112 kg/m on 6.0 m spans.

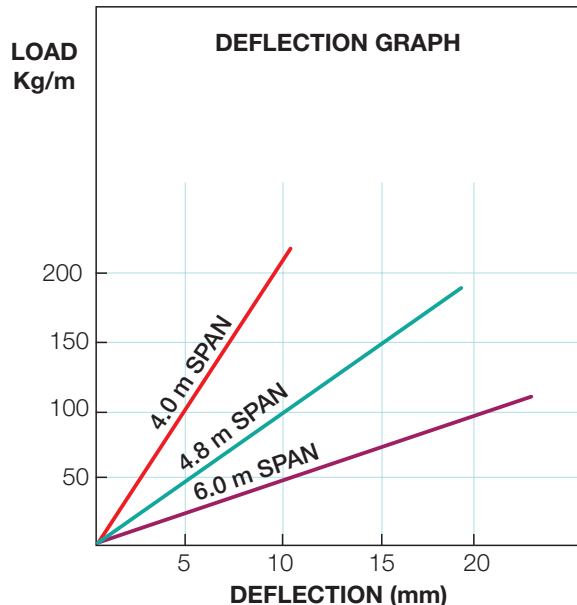
E.&O.E.

Cable Ladder **HEAVY DUTY** **TYPE 4/70 (NEMA 20B)** **2mm STEEL**

(Tested by Curtin University to NEMA VE1 standards)
Full engineering details available.



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



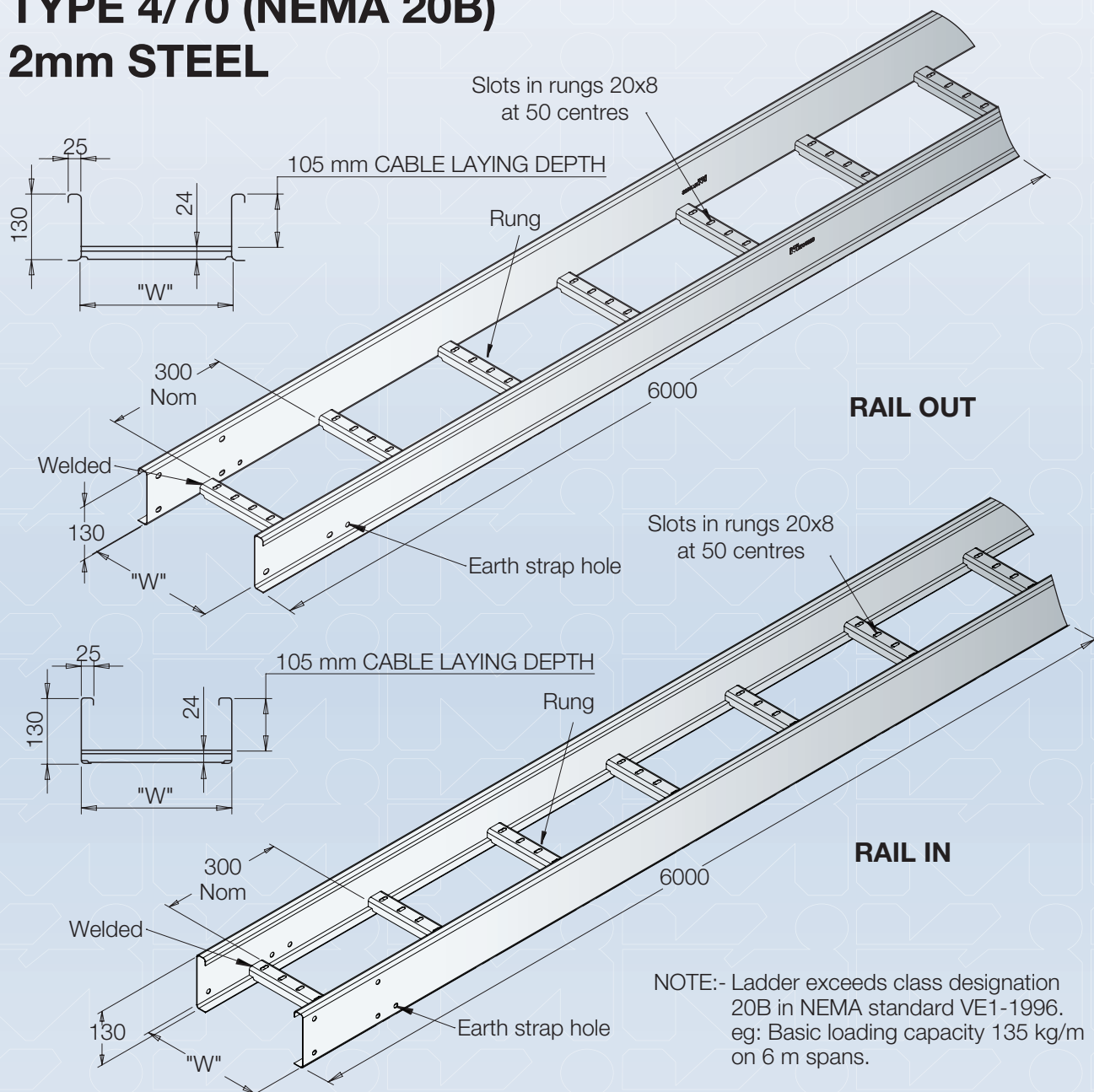
Deflections shown apply to the end bays (worst case) of a continuous ladder run.
To find deflection of a single span, multiply by 2.5.

Specification

Class designation:	Cable Ladder-heavy duty type 4/70 NEMA classification 20B.
Material:	Steel sheet.
Finish:	Hot dipped galvanised after fabrication to AS/NZS 4680 i.e. 390 gm/m ² 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 and hold down clamps

E.&O.E.

Cable Ladder **HEAVY DUTY** **TYPE 4/70 (NEMA 20B)** **2mm STEEL**



ORDERING INFORMATION

4 CL 15 RO

RAIL DIRECTION
e.g. (RO = Rail Out)
EAST COAST ONLY

SIZE
e.g. 15 (150 mm)

CABLE LADDER 2.0 mm

LADDER TYPE
4 = 4/70

STANDARD WIDTH

"W"
150
300
450
600

CODE

RAIL IN
4CL15
4CL30
4CL45
4CL60

CODE

RAIL OUT
4CL15/RO
4CL30/RO
4CL45/RO
4CL60/RO

NOTE:- For ladders side by side allow clearance for splice plates and fixings.

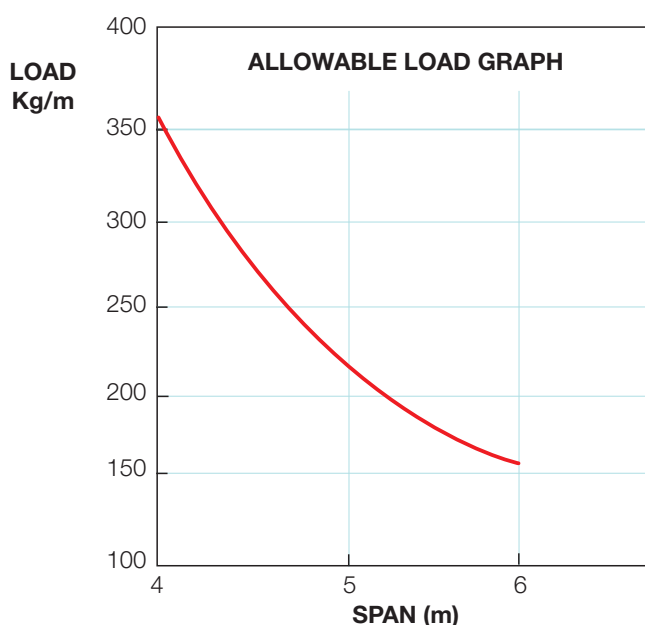
E.&O.E.

CABLE LADDER

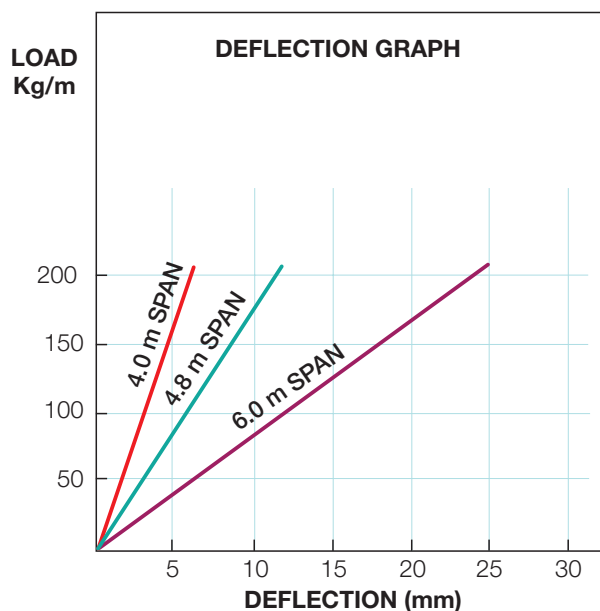
Cable Ladder **HEAVY DUTY**
TYPE 4/70 (NEMA 20B) 2mm STEEL

Cable Ladder **HEAVY DUTY** **TYPE 5/112 (NEMA 20C)** **2mm STEEL**

(Tested by Curtin University to NEMA VE1 standards)
Full engineering details available.



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.

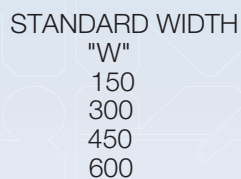
Specification

Class designation:	Cable Ladder-heavy duty type 5/112.
Material:	Steel sheet.
Finish:	Hot dipped galvanised after fabrication to AS/NZS 4680 ie 390 gm/m ² 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 and hold down clamps.

E.&O.E.



Cable Ladder **HEAVY DUTY**
TYPE 5/112 (NEMA 20C) 2mm STEEL

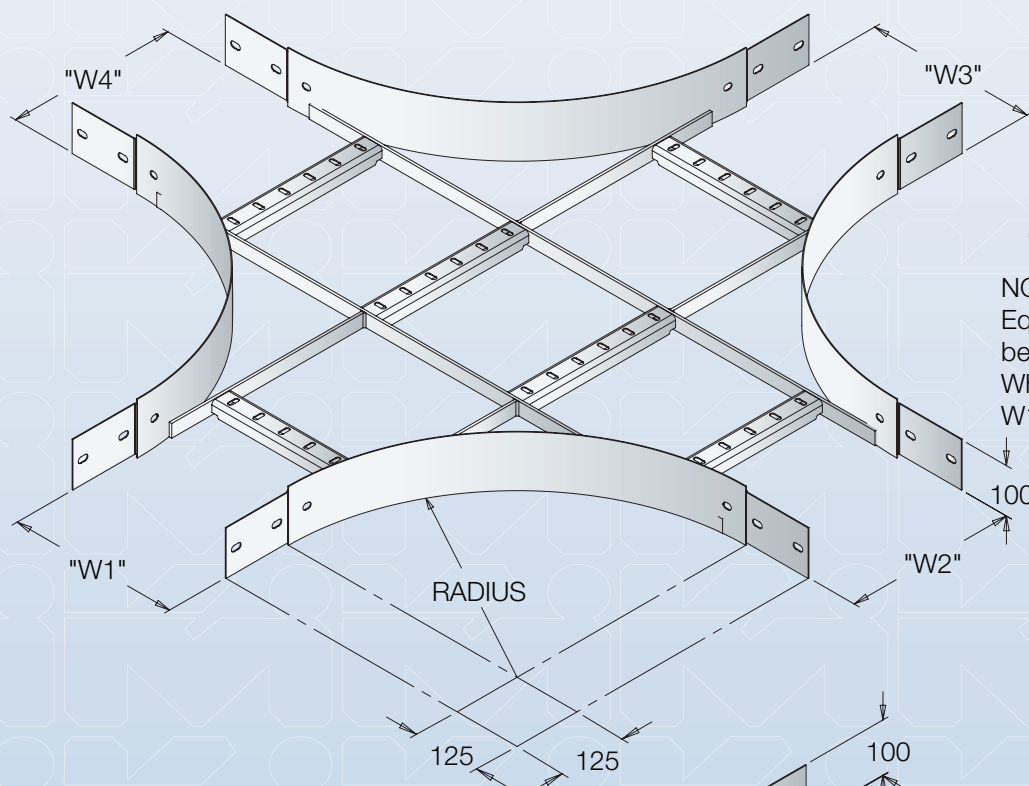


CODE	CODE
RAIL IN	RAIL OUT
5CL15	5CL15/RO
5CL30	5CL30/RO
5CL45	5CL45/RO
5CL60	5CL60/RO

NOTE:- For ladders side by side allow clearance for splice plates and fixings.

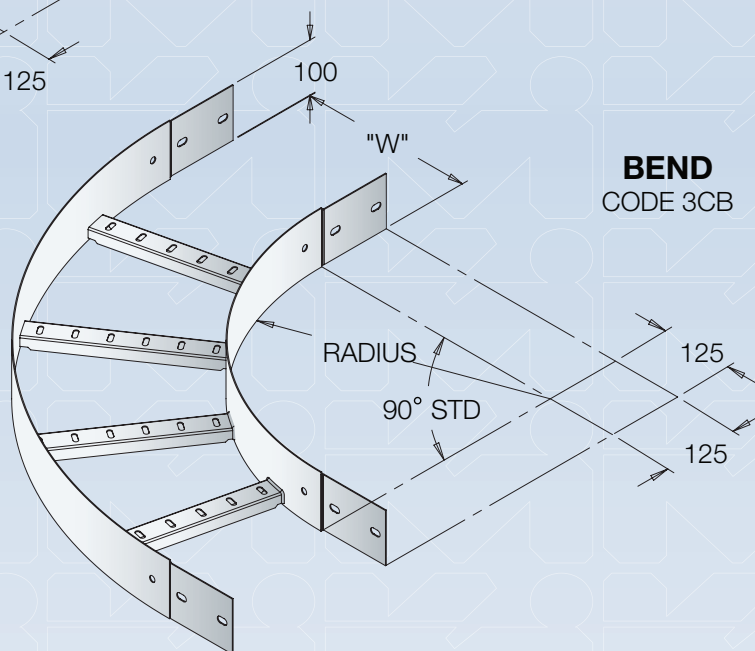
E.&O.E.

Cable Ladder **FITTINGS**



CROSS CODE 3CC

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



BEND CODE 3CB

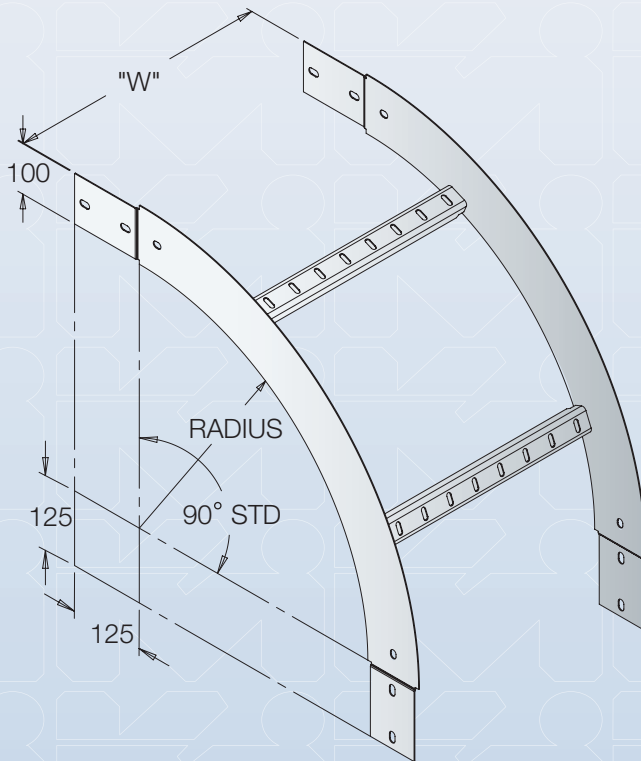
ORDERING INFORMATION

3 C B S 15 3

- ↑ LADDER TYPE
3 = 3/50
- ↑ CABLE LADDER
- ↑ FITTING TYPE
B = Bend
C = Cross
- ↑ S = Stainless Steel
- ↑ FITTING WIDTH
e.g. 15 (150 mm)
- ↑ RADIUS
3 = 300, 4 = 450, 6 = 600

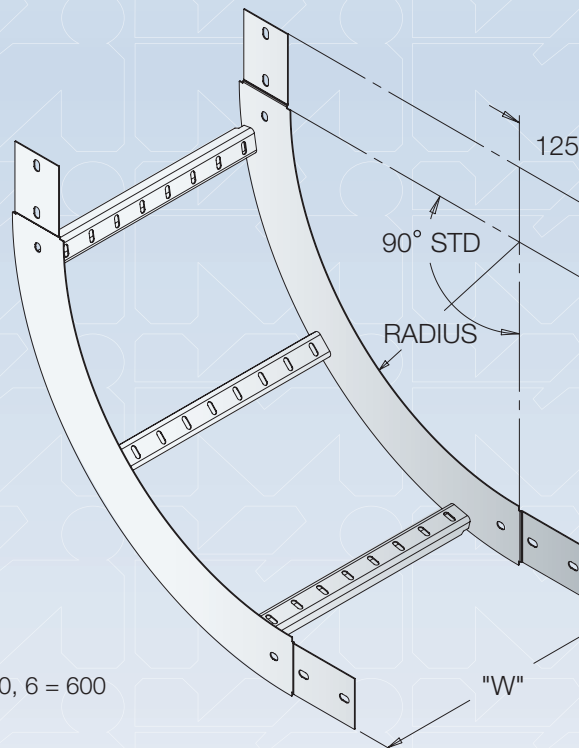
E.&O.E.

Cable Ladder **FITTINGS**

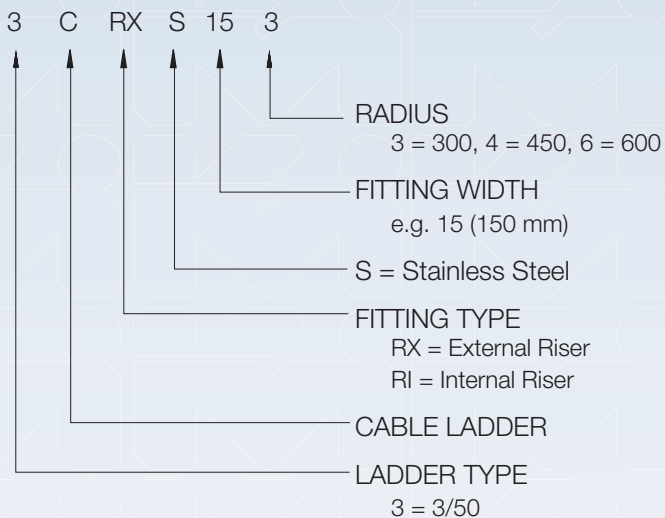


EXTERNAL RISER
CODE 3CRX

INTERNAL RISER
CODE 3CRI



ORDERING INFORMATION

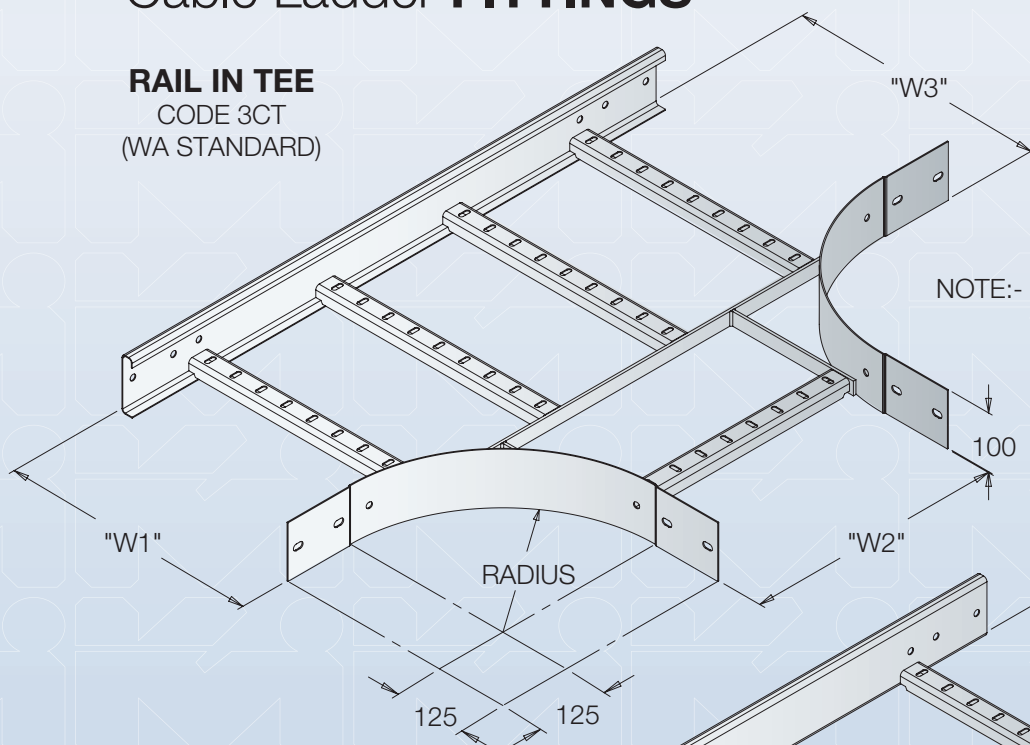


E.&O.E.

Cable Ladder **FITTINGS**

RAIL IN TEE

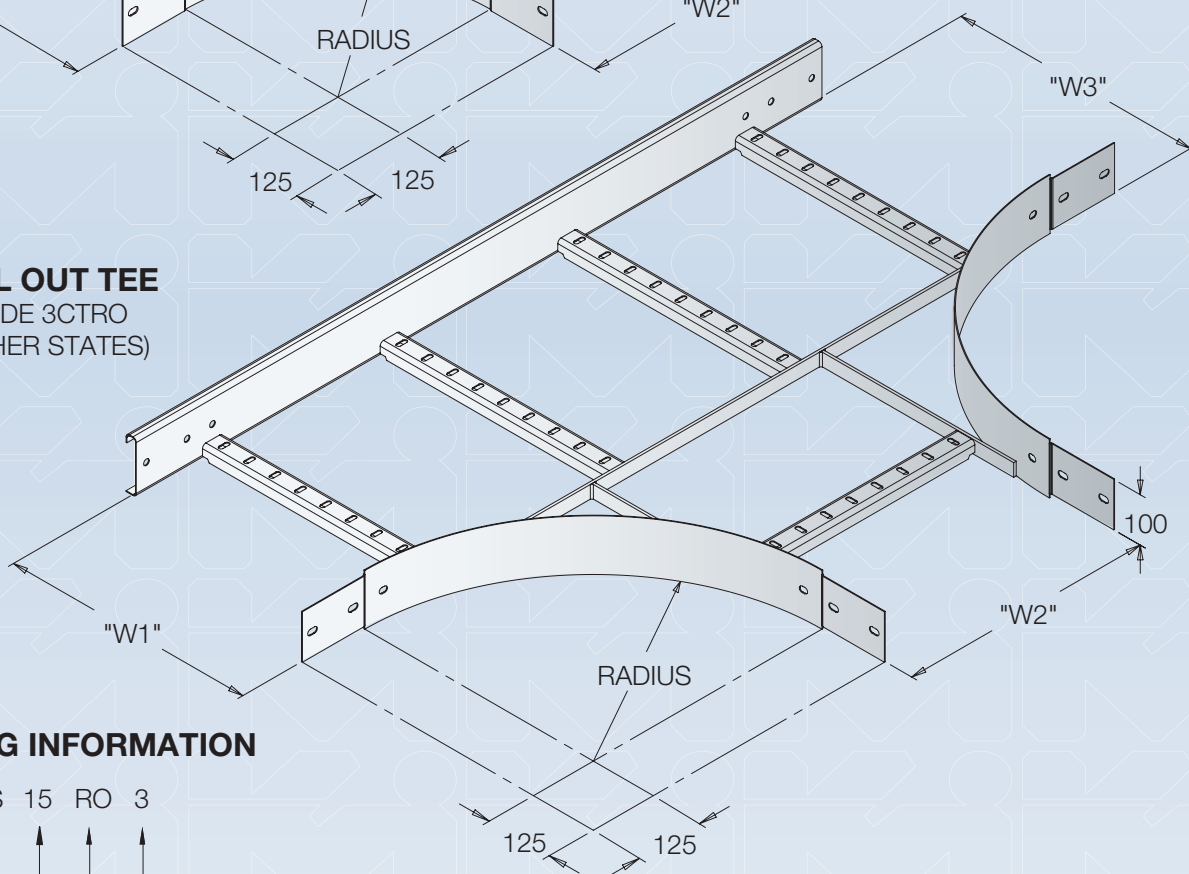
CODE 3CT
(WA STANDARD)



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

RAIL OUT TEE

CODE 3CTRO
(OTHER STATES)



ORDERING INFORMATION

3 C T S 15 RO 3

RADIUS

3 = 300, 4 = 450, 6 = 600

RAIL DIRECTION

e.g. (RO = Rail Out)
EAST COAST ONLY

FITTING WIDTH

e.g. 15 (150 mm)

S = Stainless Steel

FITTING TYPE

T = Tee

CABLE LADDER

LADDER TYPE

3 = 3/50

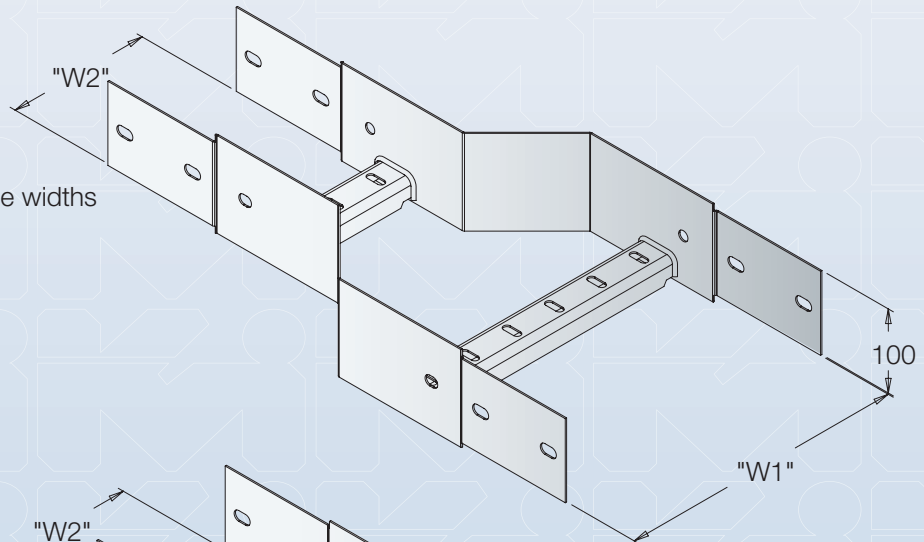
E.&O.E.

Cable Ladder **FITTINGS**

STRAIGHT REDUCER

CODE 3CSR

NOTE:-
When ordering state widths
W1 X W2

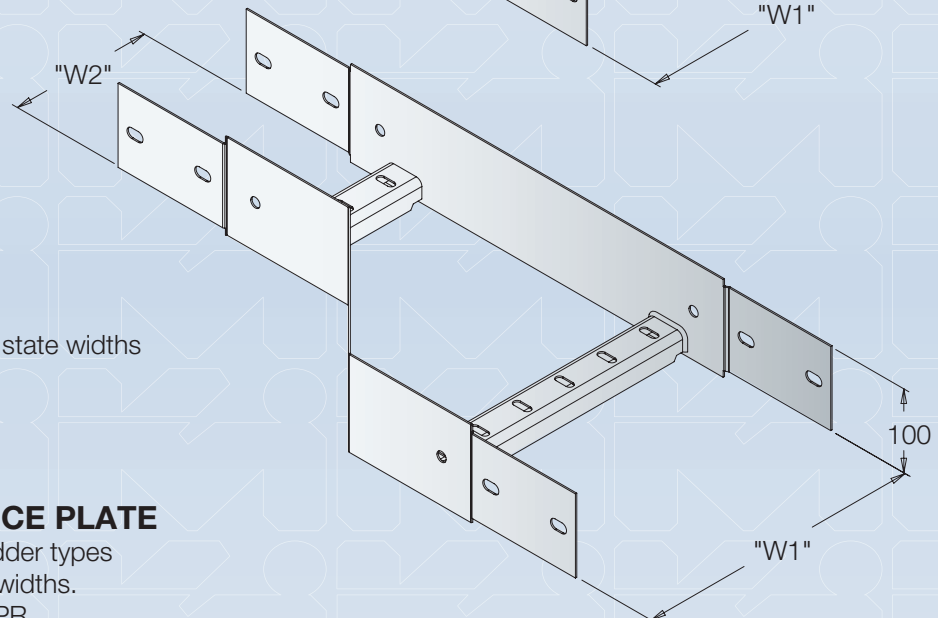


OFFSET REDUCER

(RIGHT HAND SHOWN)

CODE 3CRR

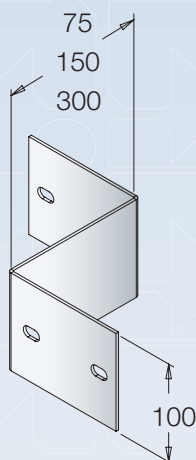
NOTE:-
When ordering state widths
W1 X W2



REDUCING SPLICE PLATE

Available for all ladder types
and reduction widths.

CODE 3CPR



ORDERING INFORMATION

3 C SR S W1 x W2

WIDTH 1 (i.e. 150 mm)
WIDTH 2 (i.e. 300 mm)

S = Stainless Steel

FITTING TYPE

PR = Reducing Splice Plate
(i.e. 75 mm, 150 mm, 300 mm)

SR = Straight Reducer

RR = Right Hand Reducer

LR = Left Hand Reducer

CABLE LADDER

LADDER TYPE

3 = 3/50

E.&O.E.

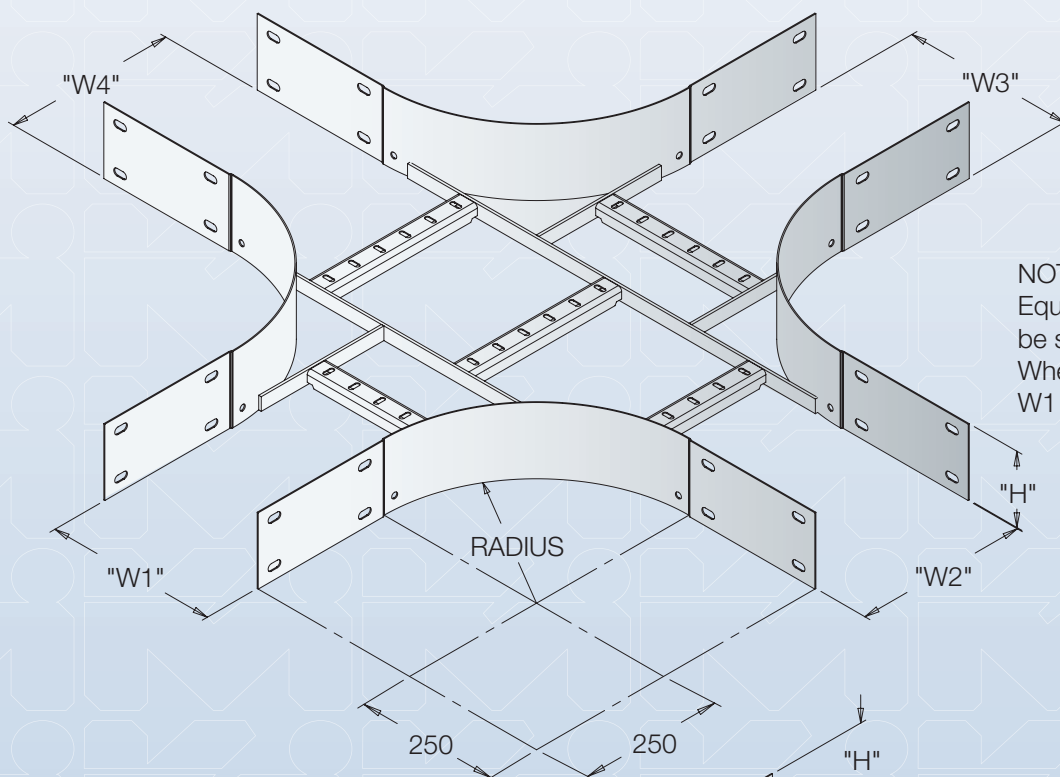
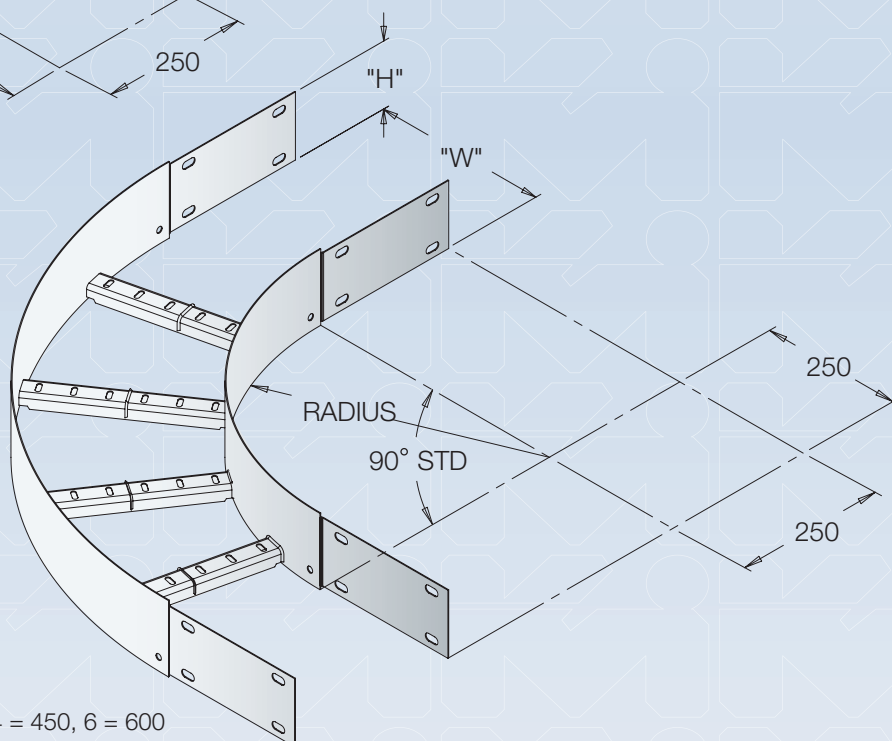
Cable Ladder **FITTINGS**

"H"

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

CROSS
CODE 4CC

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


BEND
CODE 4CB


ORDERING INFORMATION

4 C C S 15 3

↑ ↑ ↑ ↑ ↑

LADDER TYPE
4 = 4/70
5 = 5/112

CABLE LADDER

FITTING TYPE
C = Cross (W1 x W2 x W3 x W4)
B = Bend

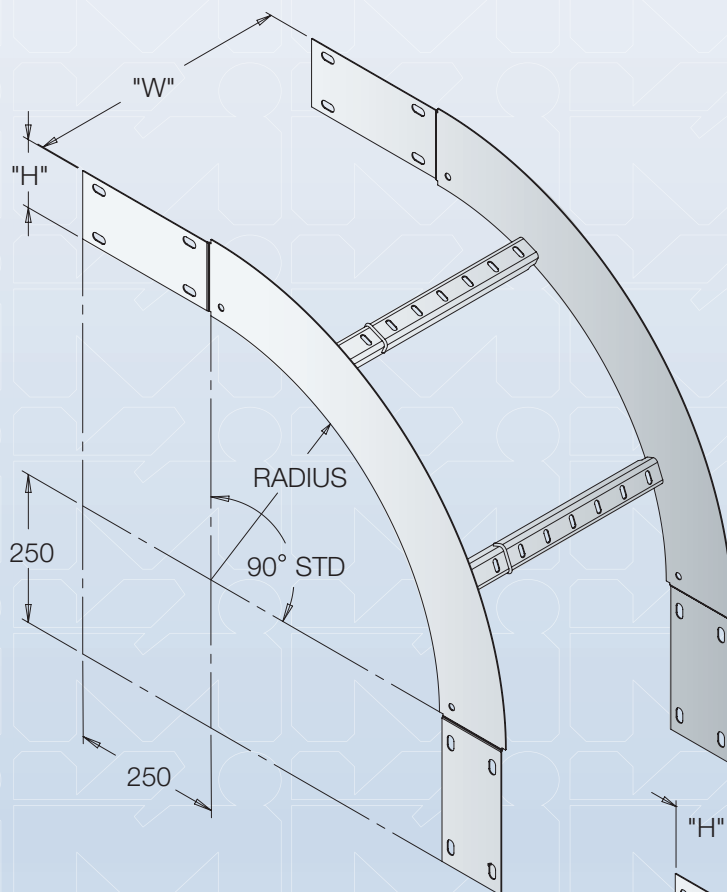
S = Stainless Steel

FITTING WIDTH
e.g. 15 (150 mm)

RADIUS
3 = 300, 4 = 450, 6 = 600

E.&O.E.

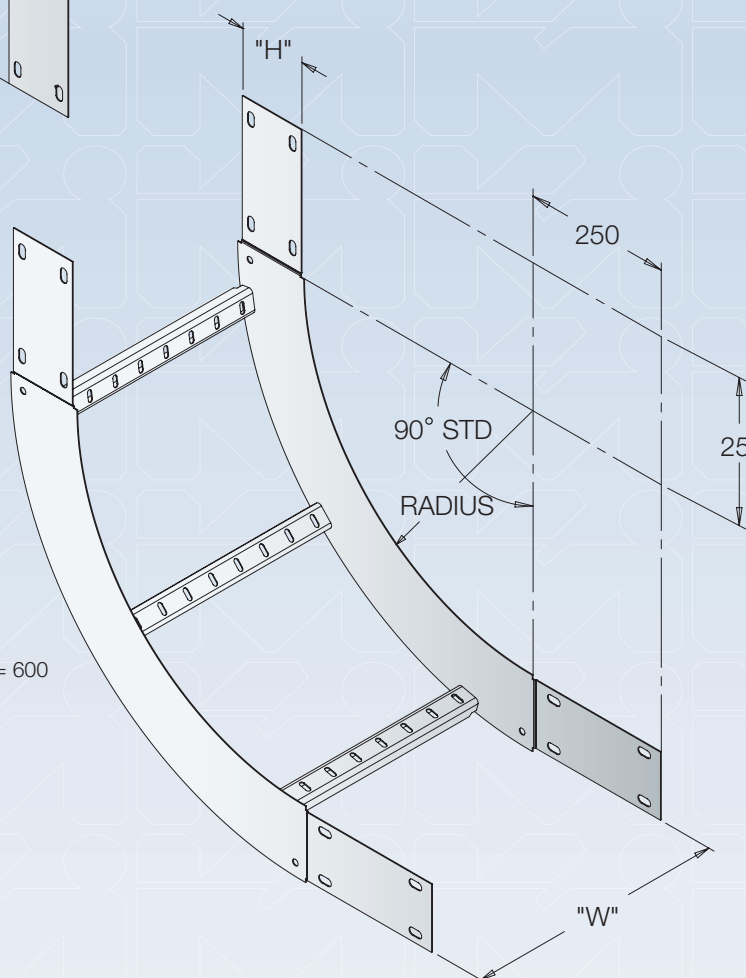
Cable Ladder FITTINGS



"H"	
4/70 20B	130 mm
5/112 20C	146 mm

EXTERNAL RISER
CODE: 4CRX

INTERNAL RISER
CODE: 4CRI



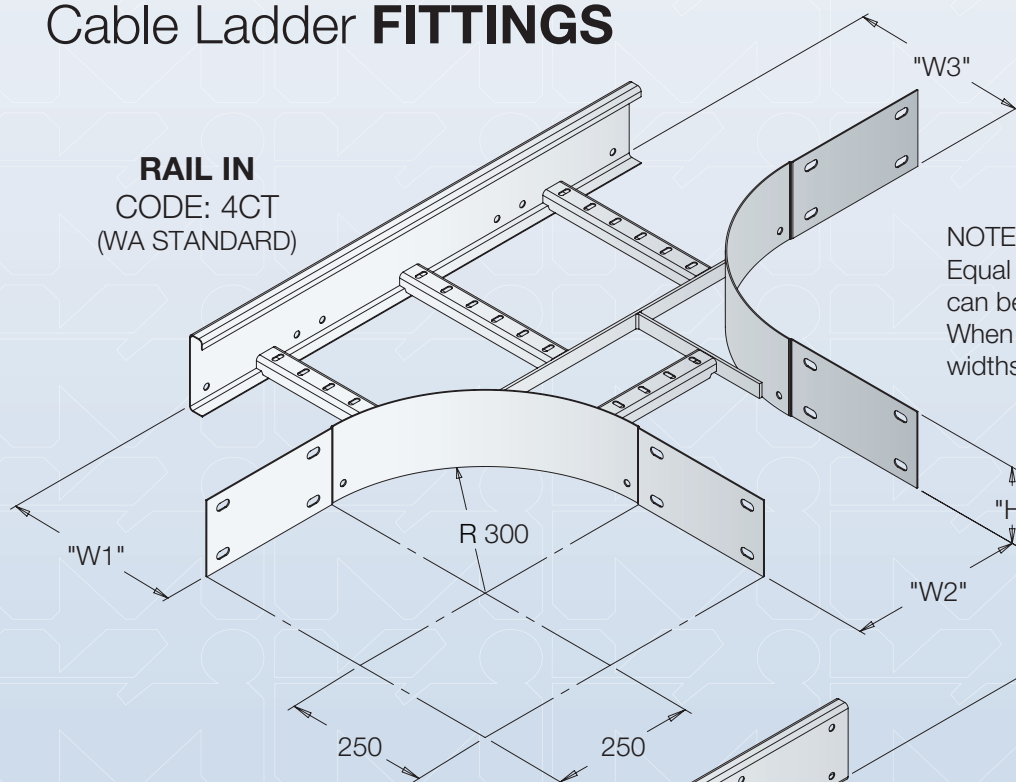
ORDERING INFORMATION

4	C	RX	S	15	3
↑	↑	↑	↑	↑	↑
					RADIUS
					3 = 300, 4 = 450, 6 = 600
					FITTING WIDTH
					e.g. 15 (150 mm)
					S = Stainless Steel
					FITTING TYPE
					RX = External Riser
					RI = Internal Riser
					CABLE LADDER
					LADDER TYPE
					4 = 4/70
					5 = 5/112

E.&O.E.

Cable Ladder **FITTINGS**

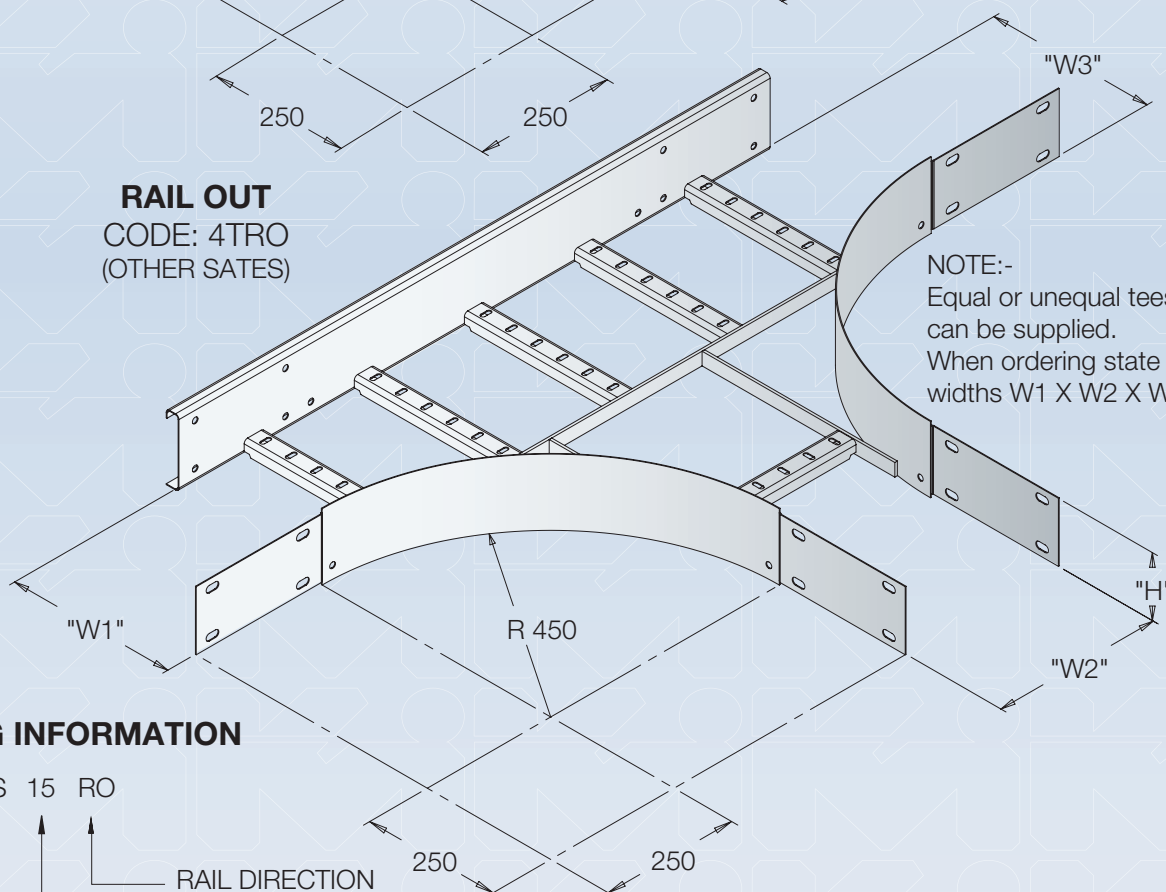
RAIL IN
CODE: 4CT
(WA STANDARD)



"H"
4/70 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
CODE: 4TRO
(OTHER STATES)



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

ORDERING INFORMATION

4 C T S 15 RO

RAIL DIRECTION
e.g. (RO = Rail Out)
EAST COAST ONLY

FITTING WIDTH
e.g. 15 (150 mm)

S = Stainless Steel

FITTING TYPE
T = TEE

CABLE LADDER

LADDER TYPE

4 = 4/70
5 = 5/112

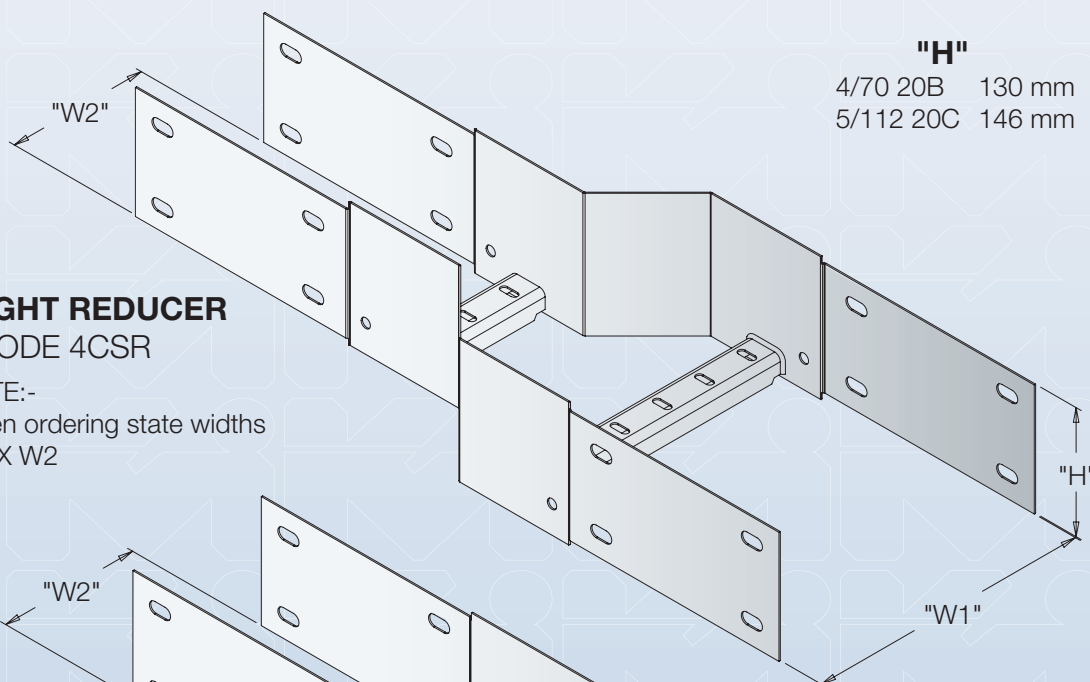
E.&O.E.

Cable Ladder **FITTINGS**

STRAIGHT REDUCER

CODE 4CSR

NOTE:-

When ordering state widths
W1 X W2

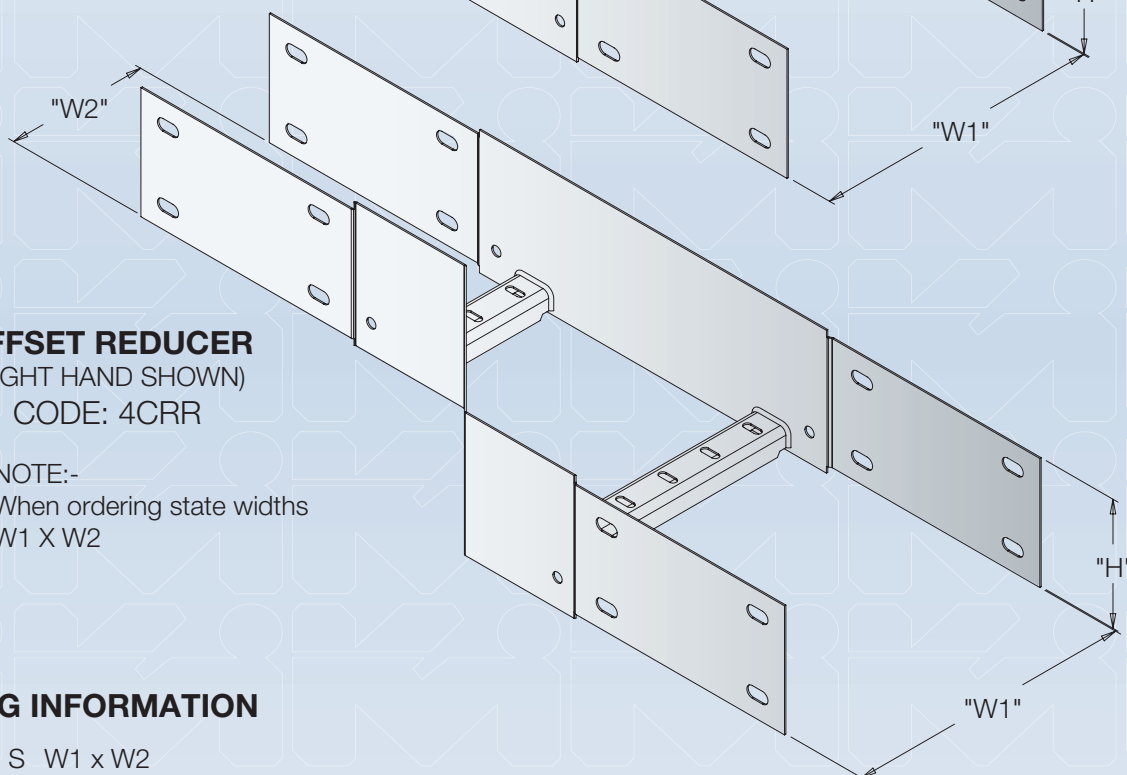
"H"
4/70 20B 130 mm
5/112 20C 146 mm

OFFSET REDUCER

(RIGHT HAND SHOWN)

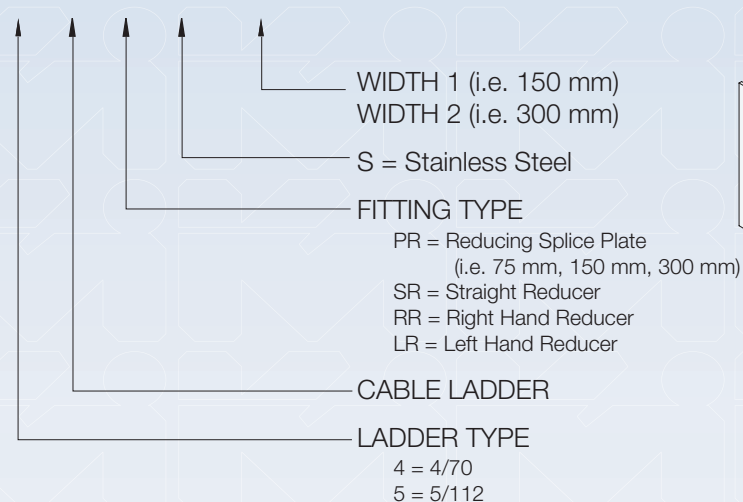
CODE: 4CRR

NOTE:-

When ordering state widths
W1 X W2

ORDERING INFORMATION

4 C SR S W1 x W2



REDUCING SPLICE PLATE

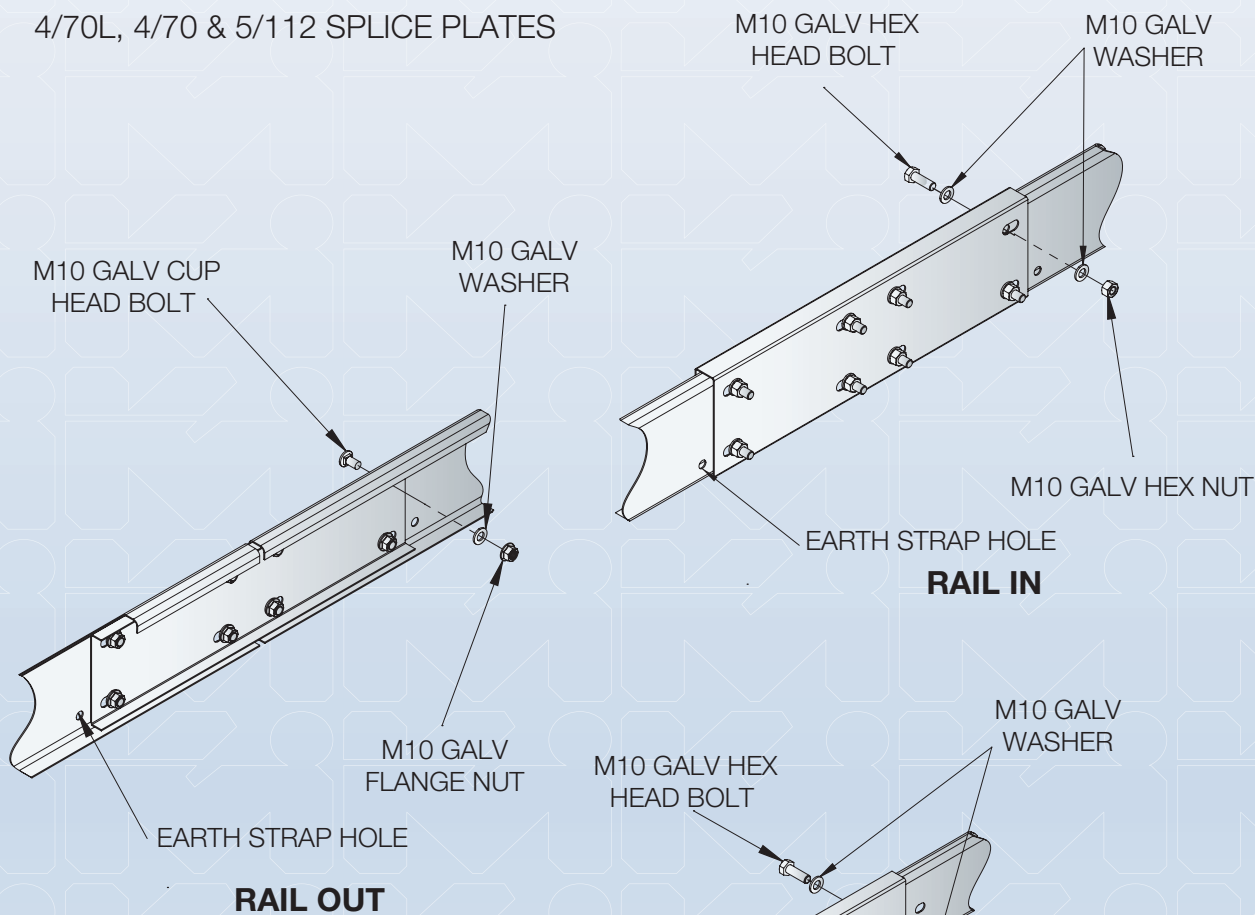
Available for all ladder
types and reduction
widths.

CODE: 4CPR

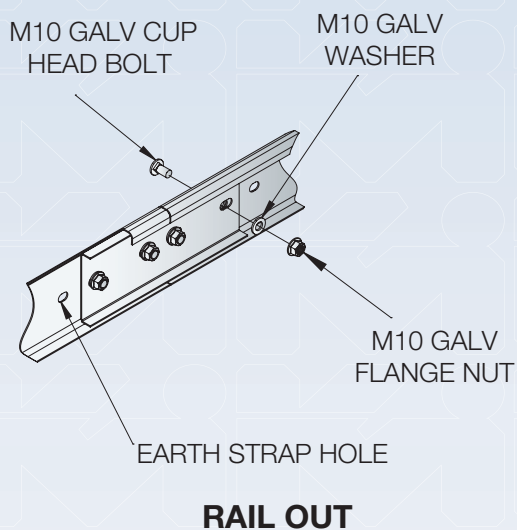
E.&O.E.

Cable Ladder **SPLICE PLATES**

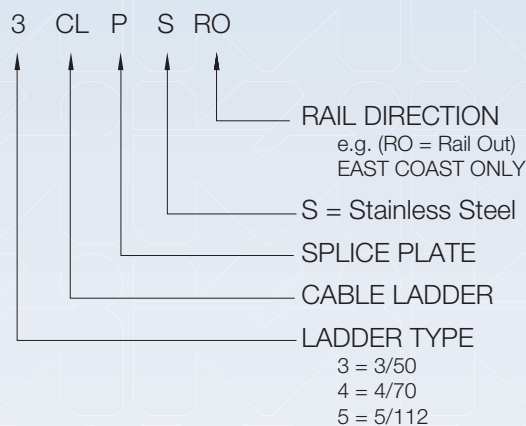
4/70L, 4/70 & 5/112 SPLICE PLATES



3/50 SPLICE PLATES N.E.M.A. 16A



ORDERING INFORMATION



E.&O.E.

Cable Ladder **HINGE SPLICE PLATES**

These fittings enable site offsets to be made and offer a flexible approach to particular installations.

Hinged splice plates should not be used for full 90° changes of direction but offer a cost effective way of offsetting ladders on site.

VERTICAL HINGED SPLICE PLATE

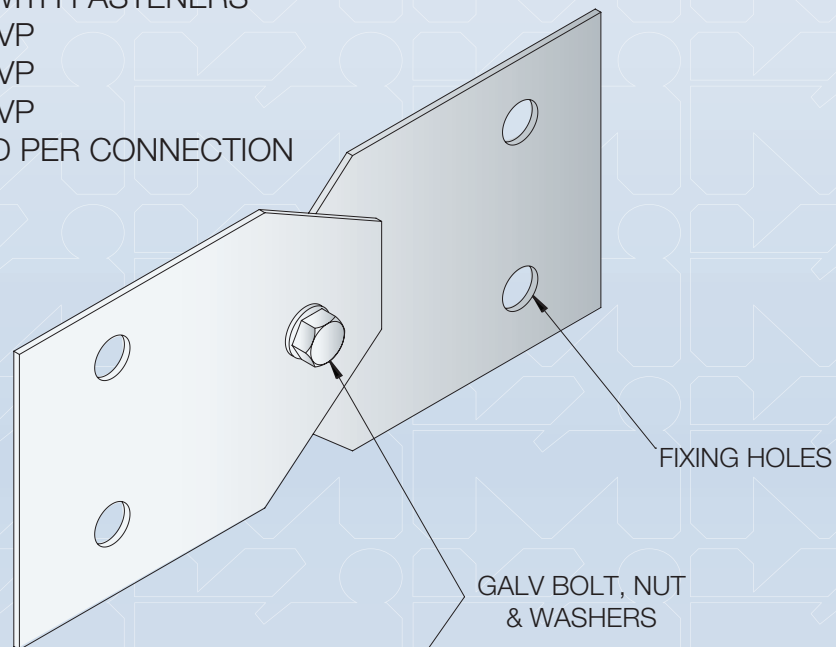
SUPPLIED WITH FASTENERS

CODE: 3CVP

4CVP

5CVP

2 REQUIRED PER CONNECTION



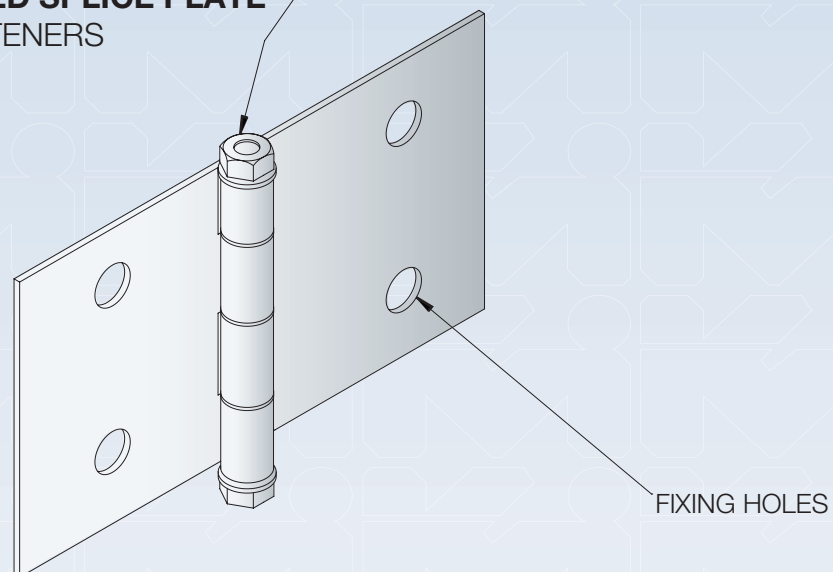
HORIZONTAL HINGED SPLICE PLATE

SUPPLIED WITH FASTENERS

CODE: 3CHP

4CHP

5CHP



E.&O.E.

Cable Ladder **BARRIER STRIP**

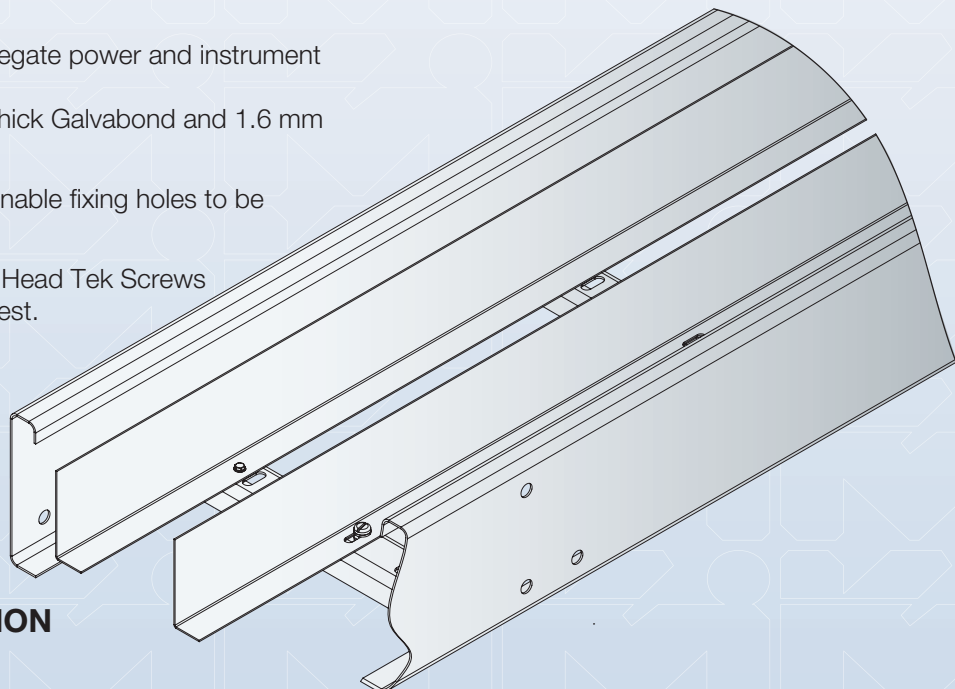
BARRIER STRIP

Barrier Strip is supplied to segregate power and instrument cables.

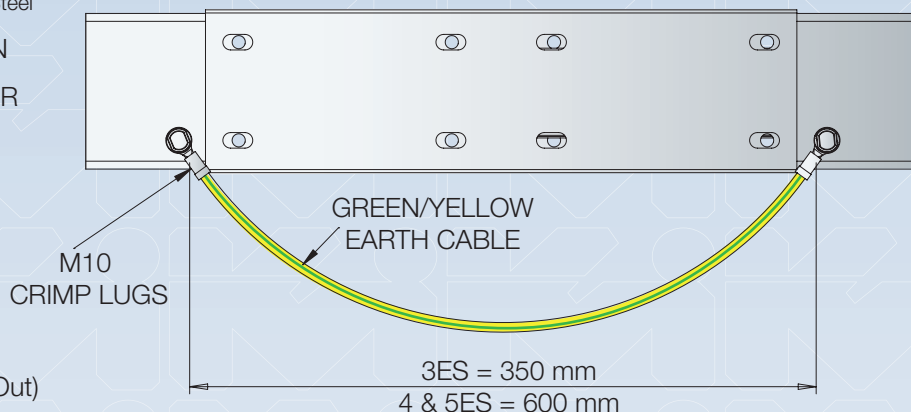
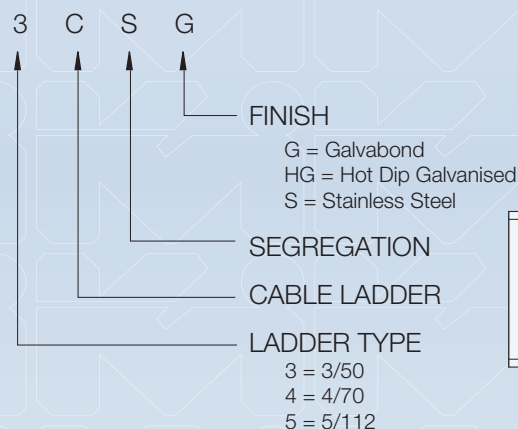
Standard finishes are 1.0 mm thick Galvabond and 1.6 mm Thick Hot Dip Galvanised steel.

Barrier strip is un-punched to enable fixing holes to be positioned where required.

Fixings for barrier strip are Hex Head Tek Screws which can be supplied on request.



ORDERING INFORMATION



TYPE 3/50

Kit Code 3ES (Rail In) 3ESRO (Rail Out)

TYPE 4/70

Kit Code 4ES (Rail In) 4ESRO (Rail Out)

TYPE 5/112

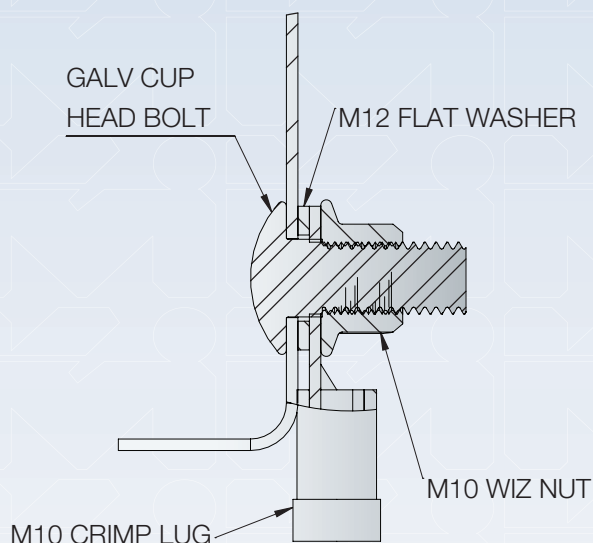
Kit Code 5ES (Rail In) 5ESRO (Rail Out)

SUPPLY PER EARTH STRAP

RAIL IN - M10 HEX GALV SCREW X25mm X2EA
 M10 HEX GALV NUT X2EA
 M10 HEX GALV FLAT WASHER X2EA
 M10 HEX GALV SPRING WASHER X2EA

SUPPLY PER EARTH STRAP

RAIL OUT - M10 CUP HEAD GALV SCREW X20mm X2EA
 M10 HEX GALV WIZ NUT X2EA
 M12 HEX GALV FLAT WASHER X2EA
 M10 ZINC FLAT WASHER X2EA



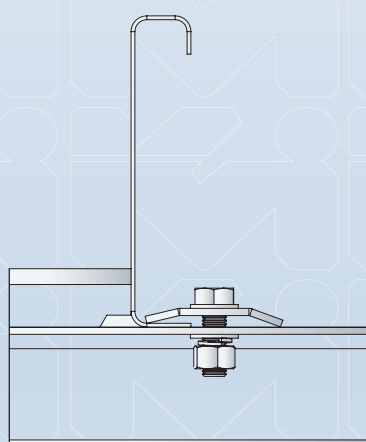
Cable Ladder **ACCESSORIES**

LADDER HOLD DOWN CLAMPS

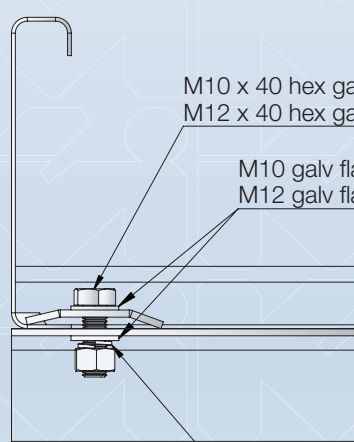
Ladder Clamps are supplied

STANDARD:	CODE: HDCS	3mm thick Hot Dip Galvanised
	CODE: HDCSS	3mm thick 316 Stainless Steel
FIXINGS:	CODE: HDCBN10	M10 x 40 Galv Bolt, Nut & washers
	CODE: HDCBNS10	M10 x 40 316 SS Bolt, Nut & washers
CYCLONIC:	CODE: HDCC10	5mm thick Hot Dip Galvanised 11 dia hole
	CODE: HDCC12	5mm thick Hot Dip Galvanised 14 dia hole
	CODE: HDCCS10	5mm thick 316 Stainless Steel 11 dia hole
FIXINGS:	CODE: HDCBN10	M10 x 40 Galv Bolt, Nut & washers
	CODE: HDCBN12	M12 x 40 Galv Bolt, Nut & washers
	CODE: HDCBNS10	M10 x 40 316 SS Bolt, Nut & washers

NB: 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.



RAIL OUT



RAIL IN

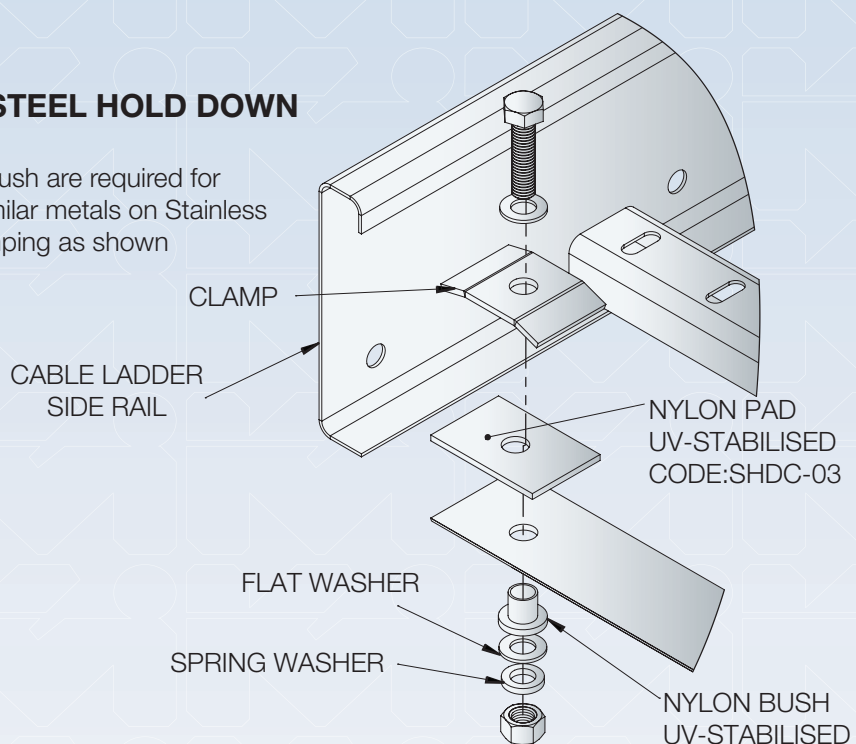
M10 x 40 hex galv bolt & nut
M12 x 40 hex galv bolt & nut

M10 galv flat washer on
M12 galv flat washer on

M10 x 40 galv spring washer
M12 x 40 galv spring washer

STAINLESS STEEL HOLD DOWN ASSEMBLY

Nylon Pad and Bush are required for isolation of dissimilar metals on Stainless Steel ladder clamping as shown



E.&O.E.

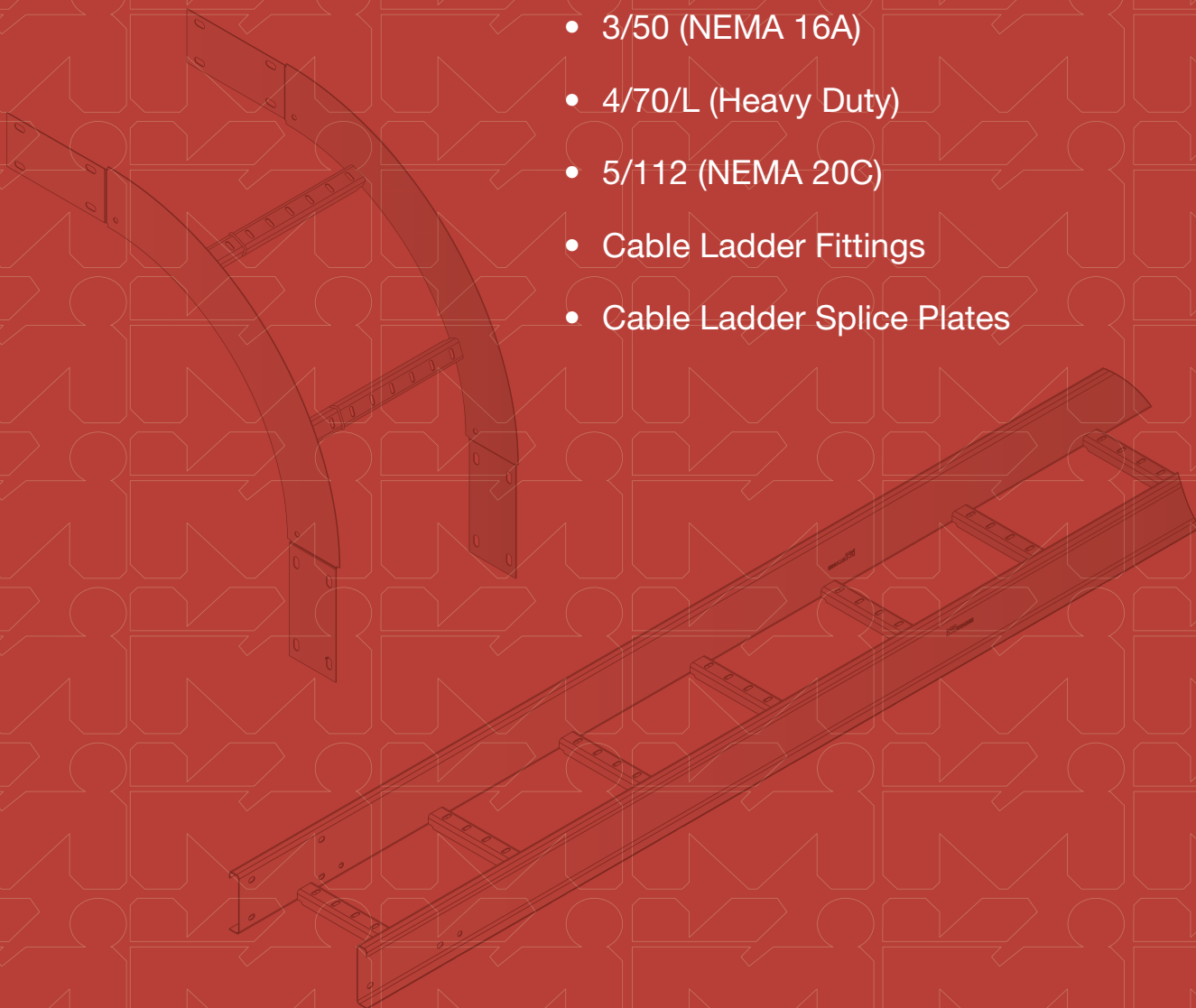
NOTES

SECTION: 4 **Cable Ladder**

(Stainless Steel)

- 3/50 (NEMA 16A)
- 4/70/L (Heavy Duty)
- 5/112 (NEMA 20C)
- Cable Ladder Fittings
- Cable Ladder Splice Plates

CABLE LADDER
(STAINLESS STEEL)



STAINLESS STEEL CABLE LADDER

General Description

The Kounis Metal Industries Stainless Steel Cable Ladder System was developed to extend the range of Cable Ladder to suit very aggressive environments.

The superior corrosion resistance of Grade 316 Stainless Steel is used as standard.

Kounis Stainless Steel Cable Ladder can be supplied in Type 3/50 (Code 3CLS), Type 4/70 (Code 4CLS), and Type 5/112 (Code 5CLS). Type 3/50 (Code 3CLS) can be supplied in 6m lengths or alternatively 3m lengths for offshore installations.

Some of the features of the Kounis Stainless Steel Ladder include:-

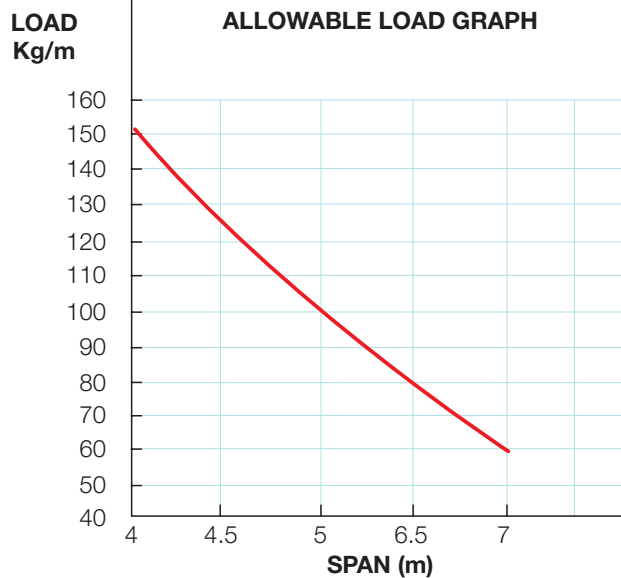
- All welds are pickled and passivated ensuring that the Stainless Steel has a maximum life span from installation.
- Available rail in or rail out.
- Each ladder and associated fitting has an earth hole at the ends for earthing connections.
- Rungs are channel type giving additional strength for loading.
- Hold down clamp assemblies with nylon insulation pads and bushes.

Kounis Stainless Steel Cable Ladder has a full complement of fittings including flat and peaked cover. Our standard covers are 0.6mm thick, alternatively other thicknesses can be supplied to order. Covers are attached by stainless steel attachment hooks with Nyloc® nuts and washers.

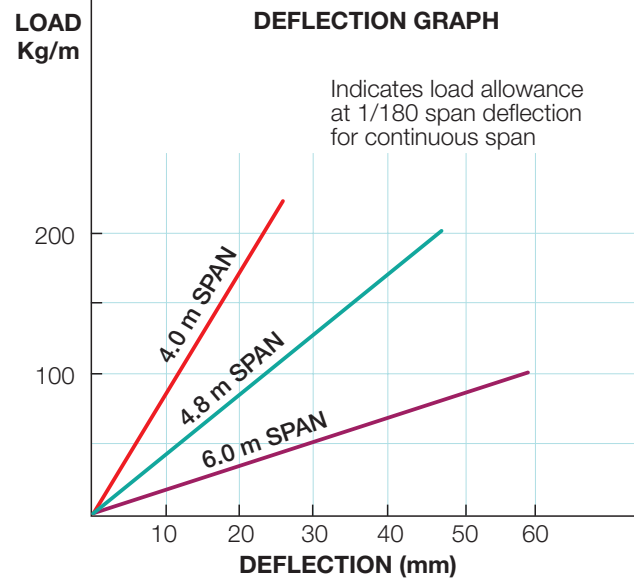
Standard fittings are supplied with 300mm radius in WA and 450mm radius in other states, alternatively larger radius fittings can be supplied to order.

Cable Ladder **MEDIUM TO HEAVY DUTY TYPE 3/50 (NEMA 16A) STAINLESS STEEL**

(Tested by Curtin University to NEMA standards)
Full engineering details available.



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



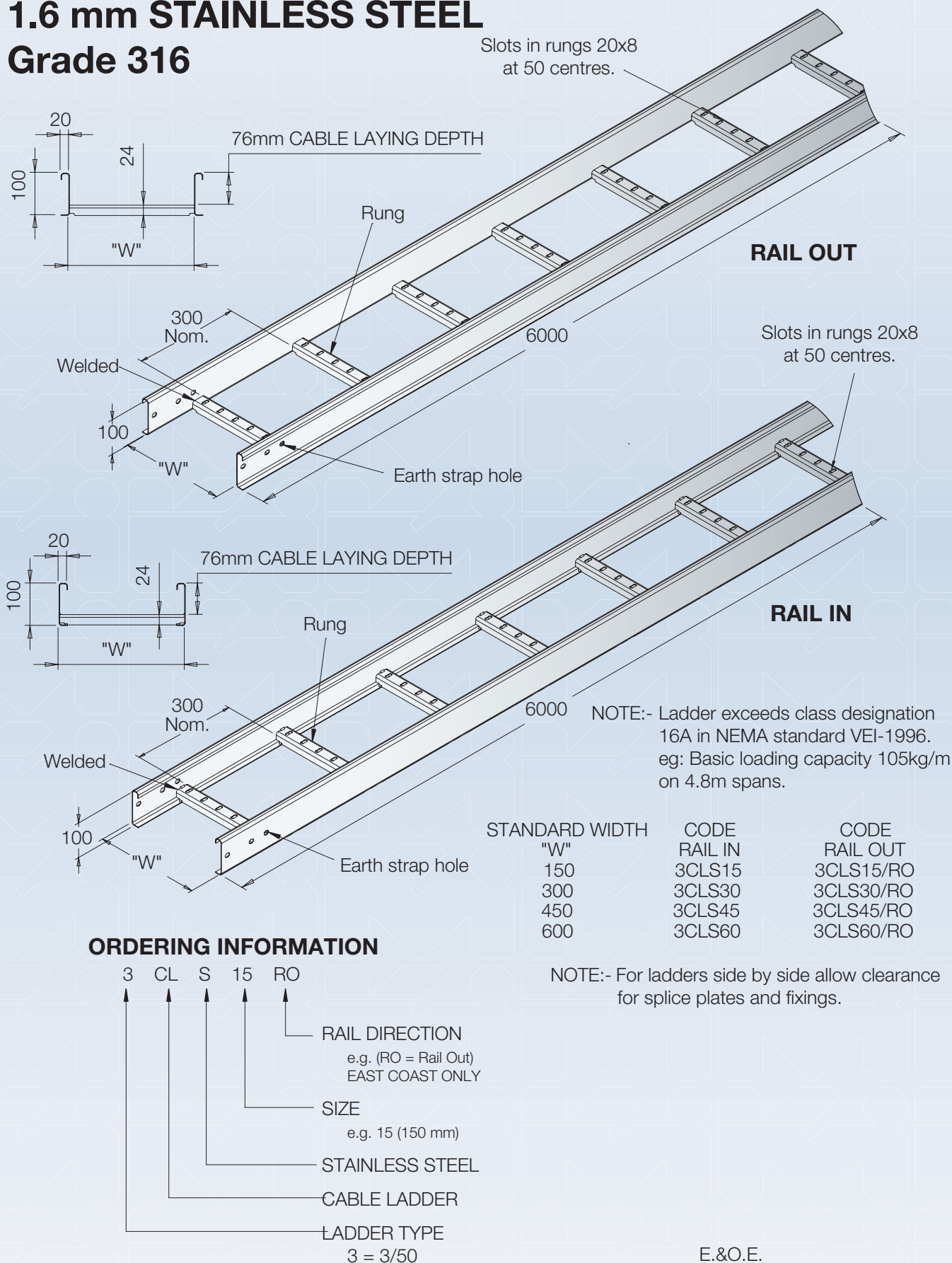
Deflections shown apply to the end bays (worst case) of a continuous ladder run.
To find deflection of a single span, multiply by 2.5.

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 & 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.

E. & O.E.

Cable Ladder **MEDIUM TO HEAVY DUTY** **TYPE 3/50 (NEMA 16A)** **1.6 mm STAINLESS STEEL** **Grade 316**



CABLE LADDER (Stainless Steel)

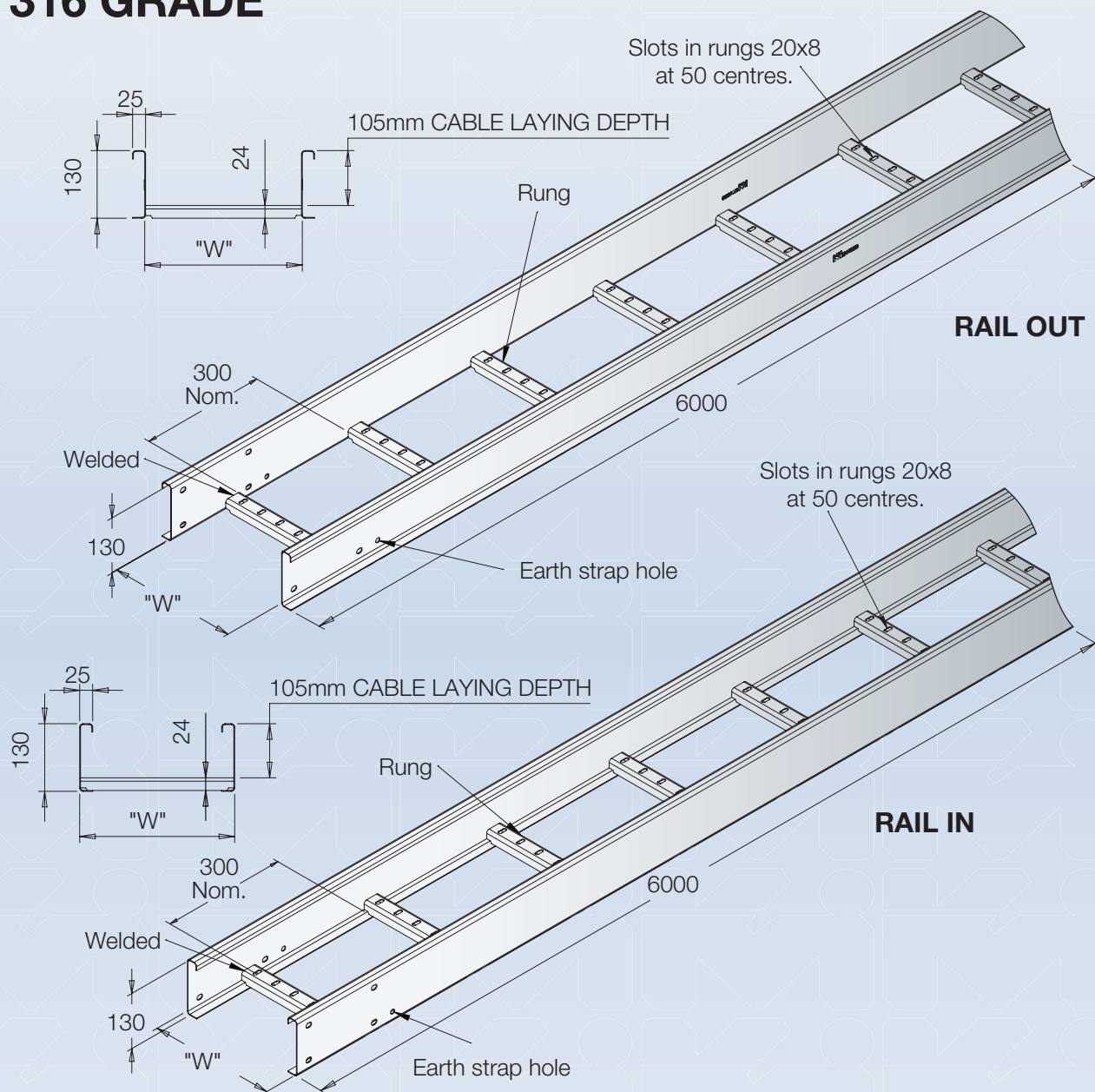
Cable Ladder **MEDIUM TO HEAVY DUTY**
TYPE 3/50 1.6mm STAINLESS STEEL 316 GRADE

Cable Ladder **MEDIUM TO HEAVY DUTY** **TYPE 4/70L STAINLESS STEEL**

SPECIFICATION

Class designation:	Cable ladder-medium to 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 & 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.

Cable Ladder **MEDIUM TO HEAVY DUTY** **TYPE 4/70L 1.6 mm STAINLESS STEEL** **316 GRADE**



STANDARD WIDTH

"W"
150
300
450
600

CODE

RAIL IN
4CLLS15
4CLLS30
4CLLS45
4CLLS60

CODE

RAIL OUT
4CLLS15/RO
4CLLS30/RO
4CLLS45/RO
4CLLS60/RO

NOTE:- For ladders side by side allow clearance for splice plates and fixings.

ORDERING INFORMATION

4 CLL S 15 RO

RAIL DIRECTION
e.g. (RO = Rail Out)
EAST COAST ONLY

SIZE
e.g. 15 (150 mm)

STAINLESS STEEL

CABLE LADDER

LADDER TYPE
4 = 4/70L

E. & O.E.

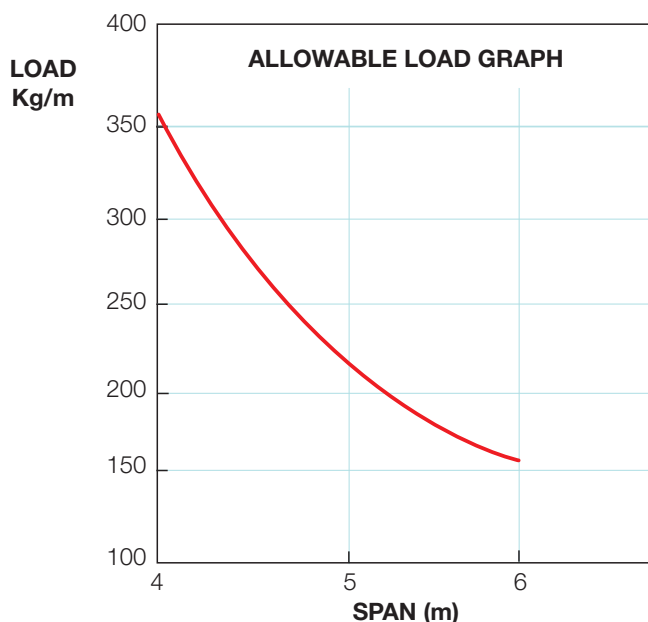
CABLE LADDER (Stainless Steel)

Cable Ladder **MEDIUM TO HEAVY DUTY**
TYPE 4/70L 1.6mm STAINLESS STEEL 316 GRADE

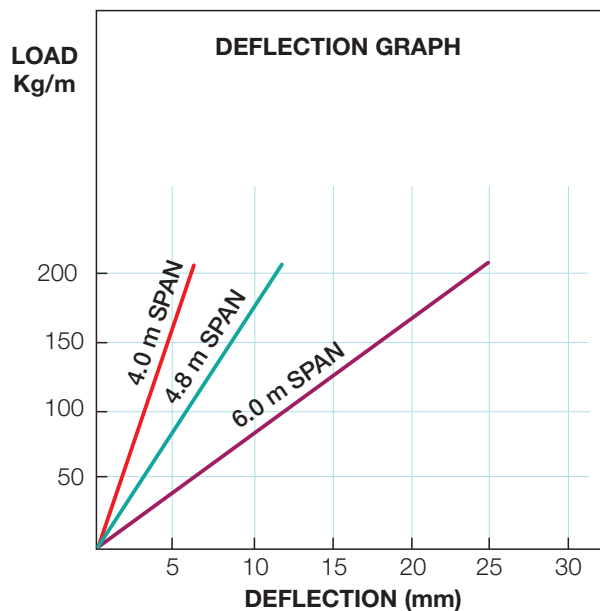


Cable Ladder **EXTRA HEAVY DUTY** **TYPE 5/112 STAINLESS STEEL**

(Tested by Curtin University to NEMA standards)
Full engineering details available.



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 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: 150mm, 300 mm, 450 mm & 600mm 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.

E. & O.E.

CABLE LADDER (Stainless Steel)



5 CL S 15 RO

RAIL DIRECTION
e.g. (RO = Rail Out)
EAST COAST ONLY

SIZE
e.g. 15 (150 mm)

STAINLESS STEEL

CABLE LADDER

LADDER TYPE
5 = 5/112

E. & O.E.

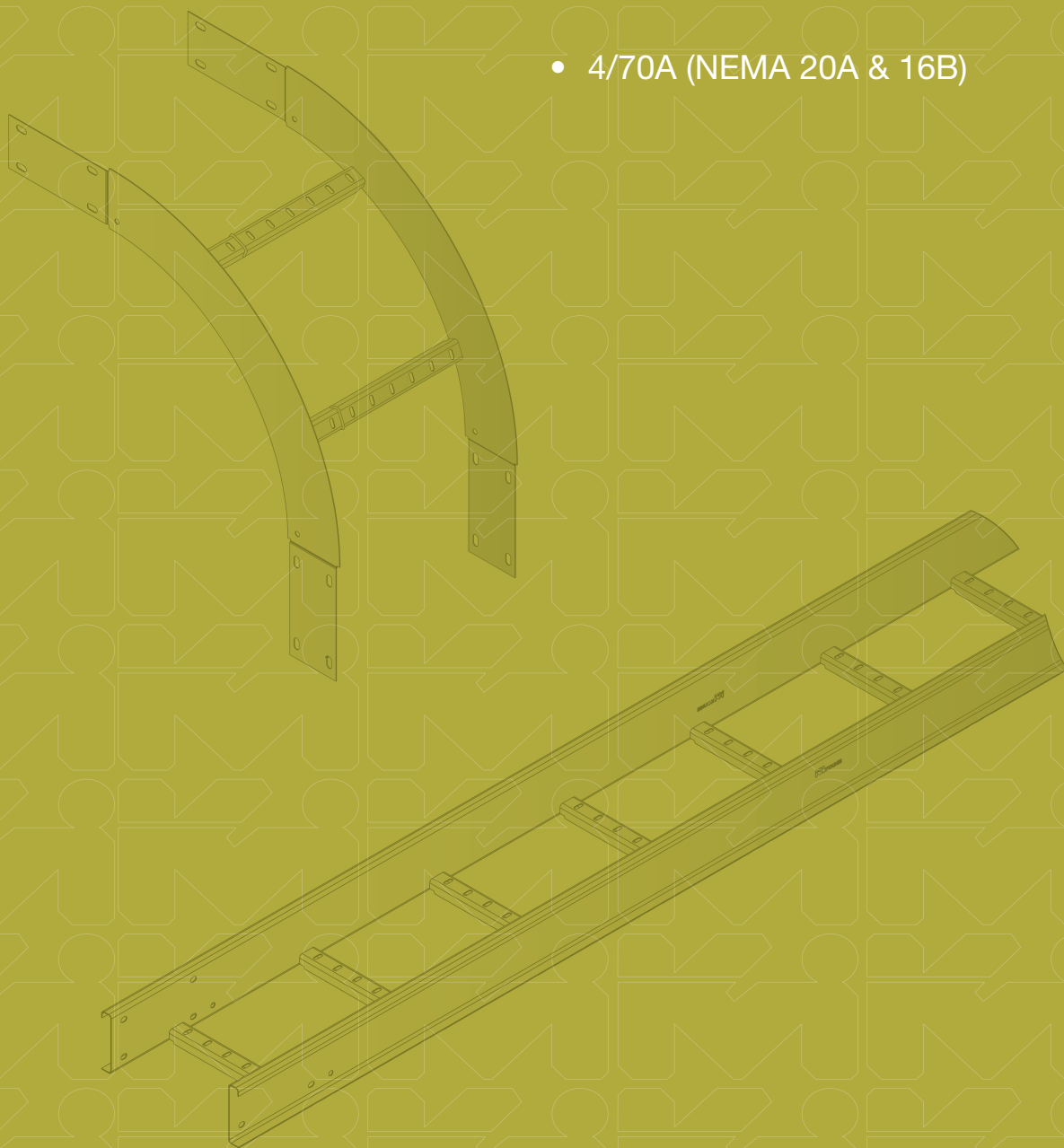
[illegible]

www.kounis.com.au

SECTION: 5 **Cable Ladder**

(Aluminium)

- 4/70A (NEMA 20A & 16B)



CABLE LADDER
(ALUMINIUM)

ALUMINIUM CABLE LADDER

General Description

The Kounis Metal Industries Aluminium Cable Ladder System was developed to extend our range of Cable supports and provide a cost effective solution providing excellent performance for a marine environment, refineries and coal mines. Aluminium Cable Ladder can be used in any environment that has severe corrosion conditions or a long maintenance free life is required.

Typical uses for Aluminium would be for water treatment plants, coal mines, port handling facilities, refineries and chemical processing plants. However for extreme acid environments we would recommend use of the Kounis Grade 316 Stainless Steel Ladder Systems.

Some of the features of the Kounis Aluminium Cable Ladder system include:-

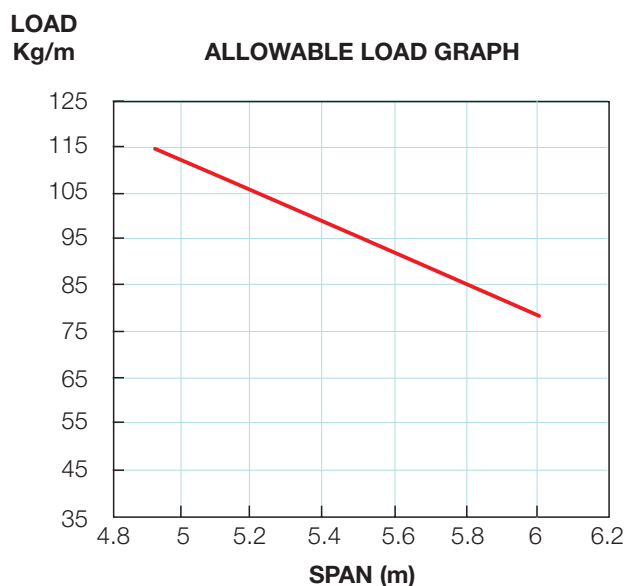
- All rungs are welded to the side rails and high pressure cleaned to remove any unsightly marks from rung welding.
- Side Rails are extruded to Australian Standards from 6106-T6 Aluminium Alloy giving excellent structural qualities and corrosion resistance.
- Available rail in or rail out.
- Each ladder and associated fitting has an earth hole at the ends for earth connections.
- Rungs are channel type giving additional strength for loading and have radiused corners to protect from damage to cable insulation. The rungs are slotted for the use of cable ties or fixing.
- Standard straight ladder connectors are an eight bolt wrap round structural type connector with slotted holes allowing for thermal expansion.
- Fittings are self splicing to the straight ladder and made from heavier sheet thickness for additional strength. Standard fixings are all from Grade 316 Stainless Steel.

Kounis Aluminium Cable Ladder has a full complement of fittings including flat and peaked cover. Our standard covers are 1.0mm thick H5005 Aluminium or alternatively other thicknesses can be supplied to order. Covers are attached by stainless steel fixings with attachment hooks for Rail - In Ladder and Tek screw fixing for Rail-Out Ladder.

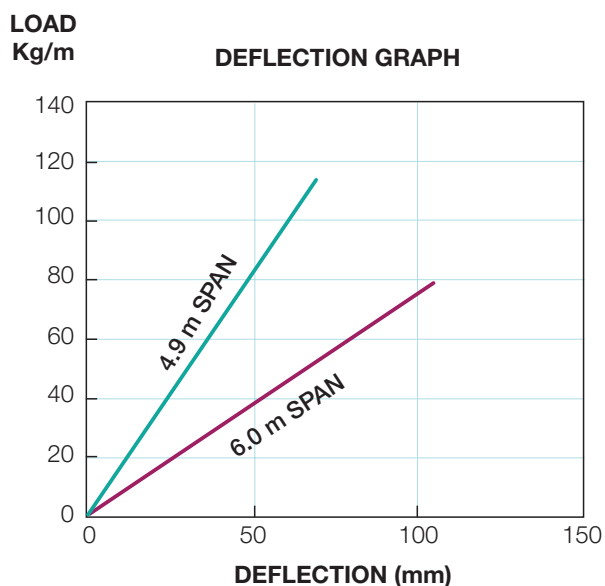
Standard fittings are supplied with 300mm radius in WA and 450mm radius in other states, alternatively larger radius fittings can be supplied to order.

We reserve the right to alter dimensions, etc, without notice, as part of continuing product development.

Cable Ladder **HEAVY DUTY** **TYPE 4/70A (NEMA 20A & 16B)** **6106 – T6 ALUMINIUM**



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



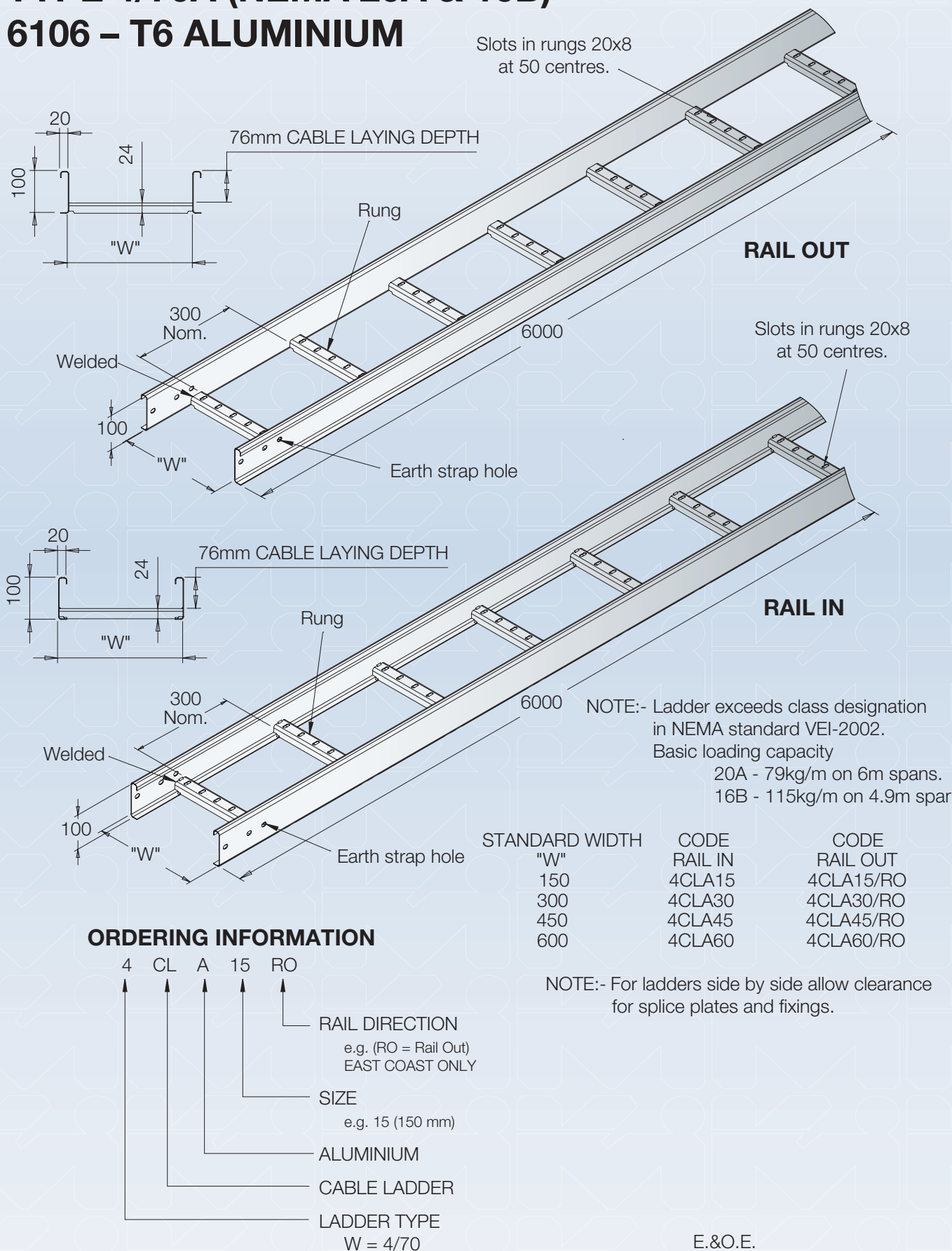
Deflections shown apply to the end bay (worst case) of a continuous ladder run.
To find deflection of a single span, multiply by 2.5.

SPECIFICATION

Class designation:	Cable ladder-medium to heavy duty type 4/70A NEMA Classification 20A and 16B.
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 & 600 mm standard.
Fittings:	A full range of fittings are available e.g bends, risers, tees, crosses & reducers all self splicing.
Radius:	300 mm radius standard for rail in. 450 mm radius standard for rail out.

E. & O.E.

Cable Ladder **HEAVY DUTY** **TYPE 4/70A (NEMA 20A & 16B)** **6106 – T6 ALUMINIUM**



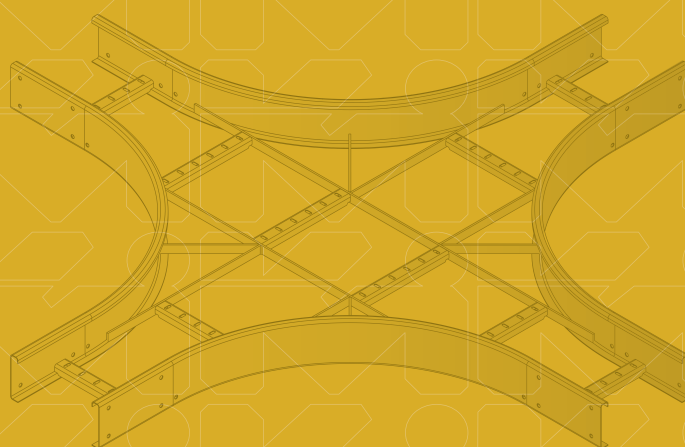
CABLE LADDER (Aluminium)

Cable Ladder **HEAVY DUTY**
TYPE 4/70A (NEMA 20A & 16B) ALUMINIUM

E.&O.E.

SECTION: 6 **Structural Cable Ladder**

- Fittings
- Flat Cover
- Peak Cover



STRUCTURAL CABLE
LADDER

STRUCTURAL LADDER SYSTEMS

General Description

The Kounis Metal Industries Structural Cable Ladder System was developed for use in large industrial processing plants and mining.

The fitting rails follow the same profile as the cable ladder which forms a more self supporting assembly. Large radius fittings are also much more rigid.

The ladder and fittings are all site connected with splice plates.

Fittings are not self splicing and require joiners for connection to ladder.

Standard construction is steel, hot dip galvanised after manufacture.

Some of the features of the Kounis Structural Cable Ladder include:-

A range of three duties of ladder to cover a wide range of requirements.

- Structural side rails to all bends, risers and tees.
- Each ladder and associated fitting has an earth hole at the ends for earthing connections.
- Rungs are channel type giving additional strength for loading.
- Ladder hold down clamp assemblies can be supplied in either standard or cyclonic type.

Kounis Structural Cable Ladder has a full complement of fittings with flat or peaked cover.

Covers are attached by stainless steel attachment hooks with Nyloc® nuts and washers.

Standard fittings are supplied with 600 radius, alternatively larger radius fittings can be supplied to order.

NOTES

[illegible]

Cable Ladder **STRUCTURAL FITTINGS****"H"**

4/70 20B 130 mm

5/112 20C 146 mm

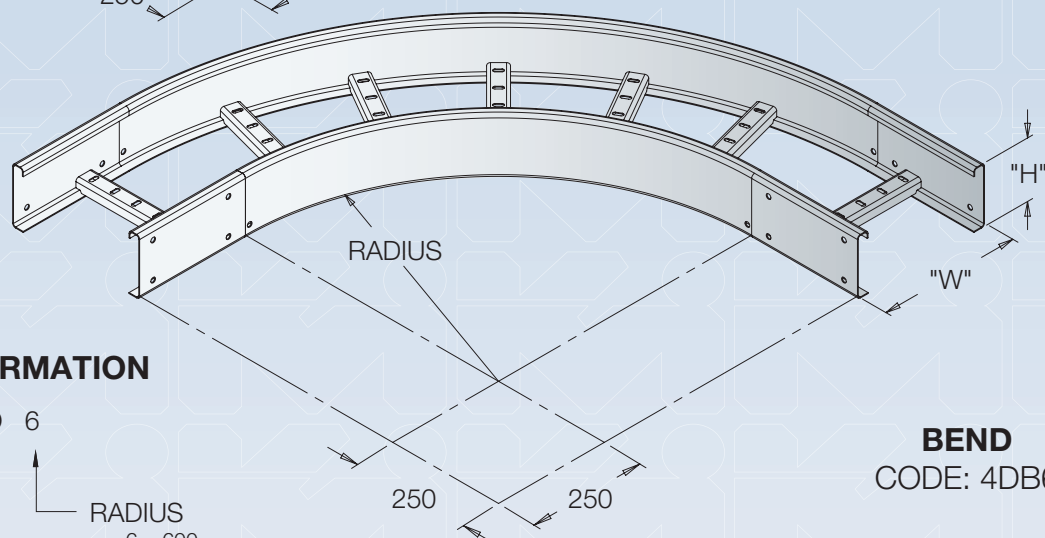
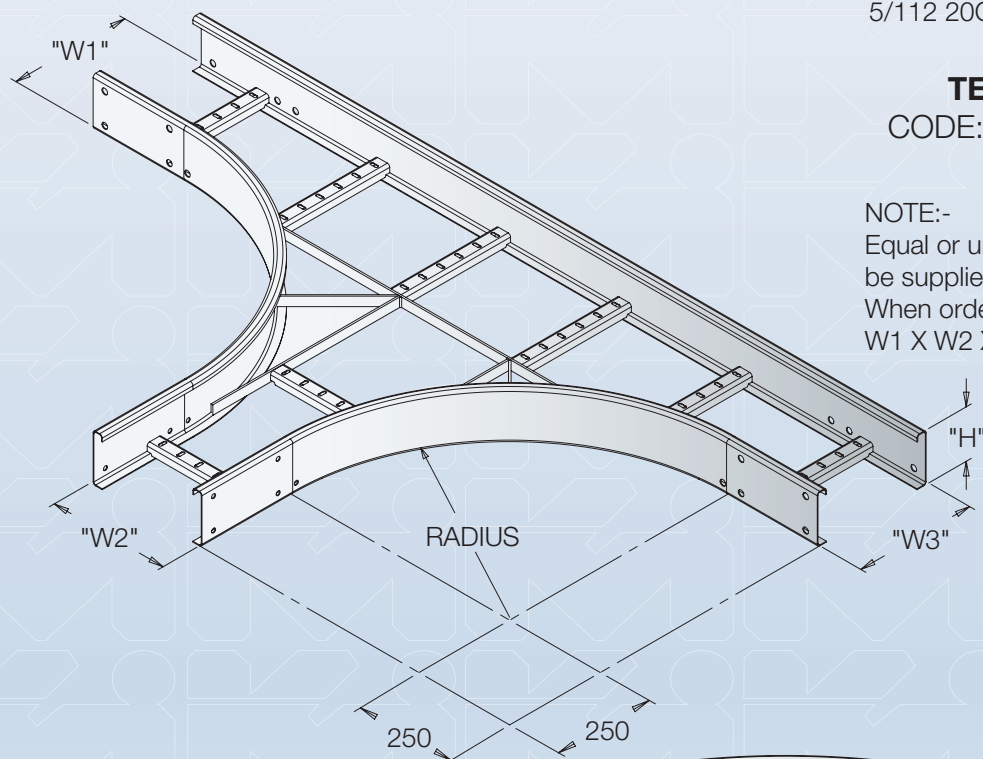
TEE

CODE: 4DT6

NOTE:-

Equal or unequal tees can be supplied.

When ordering state widths W1 X W2 X W3

**ORDERING INFORMATION**

4 D T 15 RO 6

RADIUS

6 = 600

9 = 900

RAIL DIRECTION

e.g. (RO = Rail Out)
EAST COAST ONLY

FITTING WIDTH

e.g. 15 (150 mm)

FITTING TYPE

T = Tee

B = Bend

STRUCTURAL FITTING

LADDER TYPE

4 = 4/70

5 = 5/112

BEND

CODE: 4DB6

E.&O.E.

Cable Ladder **STRUCTURAL FITTINGS**

"H"

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

EXTERNAL RISER
CODE: 4DRX6

RADIUS

INTERNAL RISER
CODE: 4DRI6

ORDERING INFORMATION

4 D RX 15 RO 6

RADIUS

6 = 600
9 = 900

RAIL DIRECTION

e.g. (RO = Rail Out)
EAST COAST ONLY

FITTING WIDTH

e.g. 15 (150 mm)

FITTING TYPE

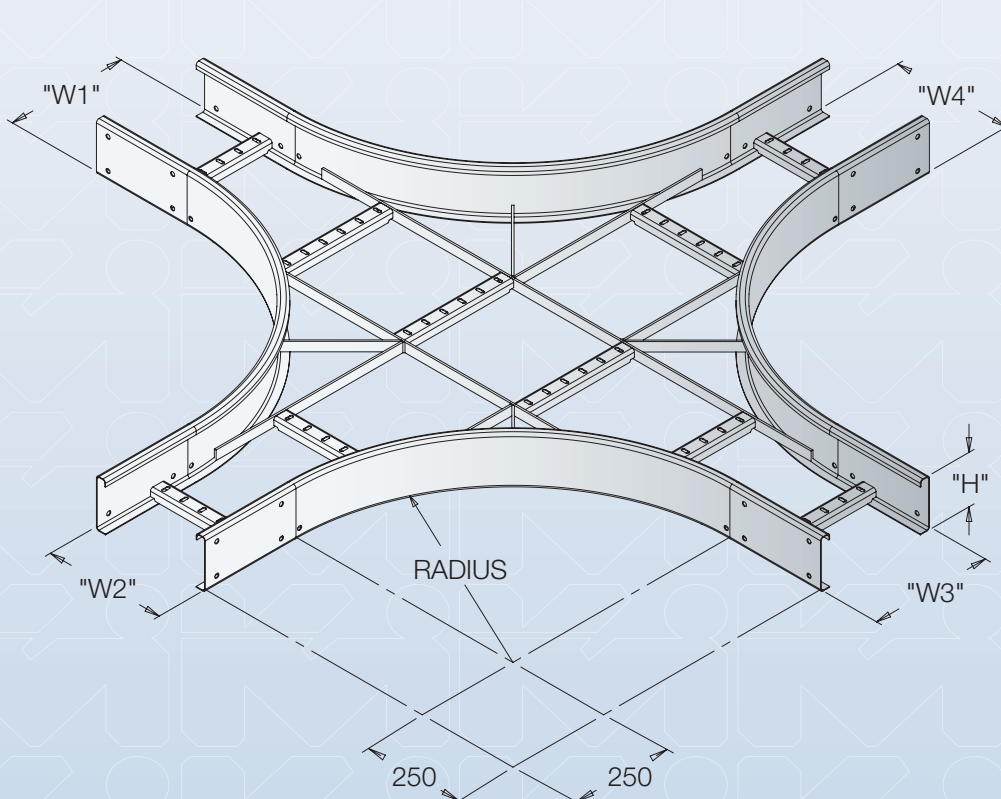
RX = External Riser
RI = Internal Riser

STRUCTURAL FITTING

LADDER TYPE

4 = 4/70
5 = 5/112

E.&O.E.

Cable Ladder **STRUCTURAL FITTINGS****"H"**

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

CROSS

CODE: 4DC6

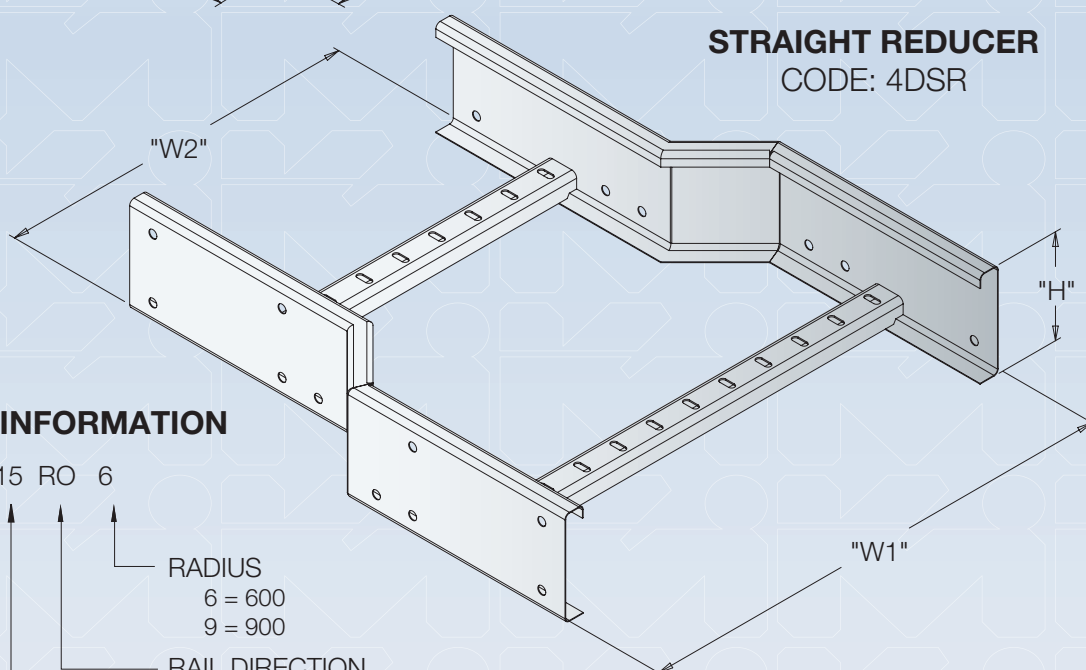
NOTE:-

Equal or unequal crosses can be supplied.

When ordering state widths
W1 X W2 X W3 X W4

STRAIGHT REDUCER

CODE: 4DSR

**ORDERING INFORMATION**

4 D C 15 RO 6

RADIUS

6 = 600
9 = 900

RAIL DIRECTION

e.g. (RO = Rail Out)
EAST COAST ONLY

FITTING WIDTH

e.g. 15 (150 mm)

FITTING TYPE

C = Cross
SR = Straight Reducer

STRUCTURAL FITTING

LADDER TYPE

4 = 4/70
5 = 5/112

E.&O.E.

Cable Ladder **STRUCTURAL FITTINGS**

"H"

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

OFFSET REDUCER

CODE: 4DRR
(RIGHT SHOWN)

"W2"
"W1"
"H"
"H"
"W1"
ORDERING INFORMATION

4 D RR 15 RO 6

RADIUS

6 = 600
9 = 900

RAIL DIRECTION

e.g. (RO = Rail Out)
EAST COAST ONLY

FITTING WIDTH

e.g. 15 (150 mm)

FITTING TYPE

RR = Right Hand Reducer
LR = Left Hand Reducer

STRUCTURAL FITTING

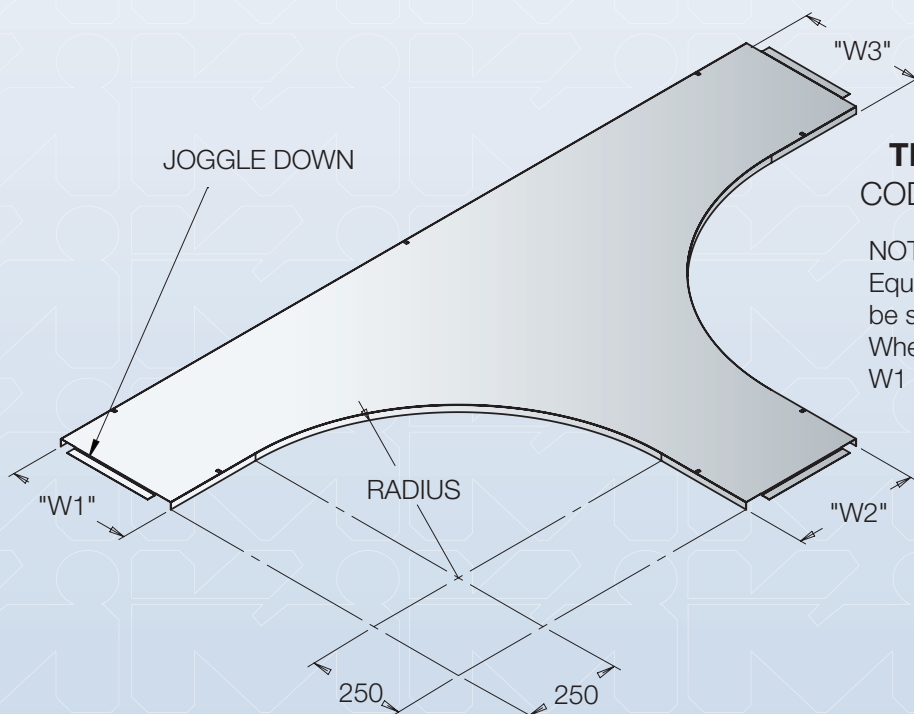
LADDER TYPE

4 = 4/70
5 = 5/112

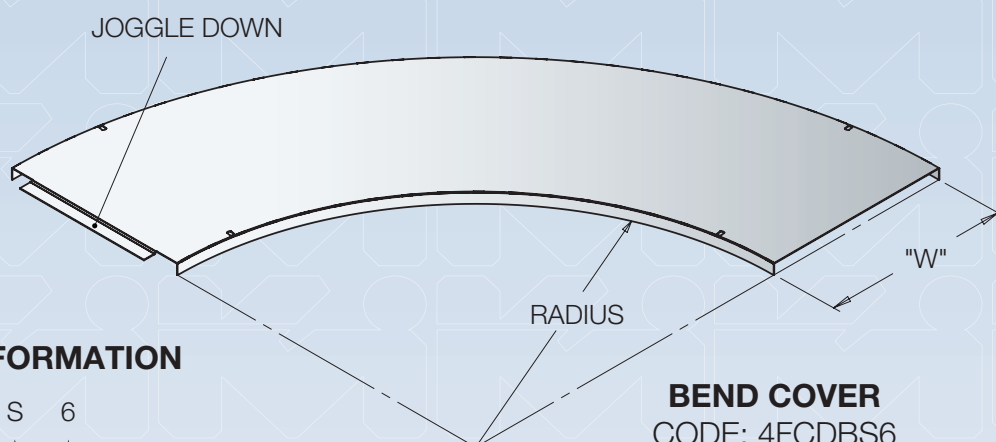
OFFSET REDUCER

CODE: 4DRL
(LEFT SHOWN)

E.&O.E.

Cable Ladder **STRUCTURAL FLAT FITTING COVERS****TEE COVER**
CODE: 4FCDS6

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

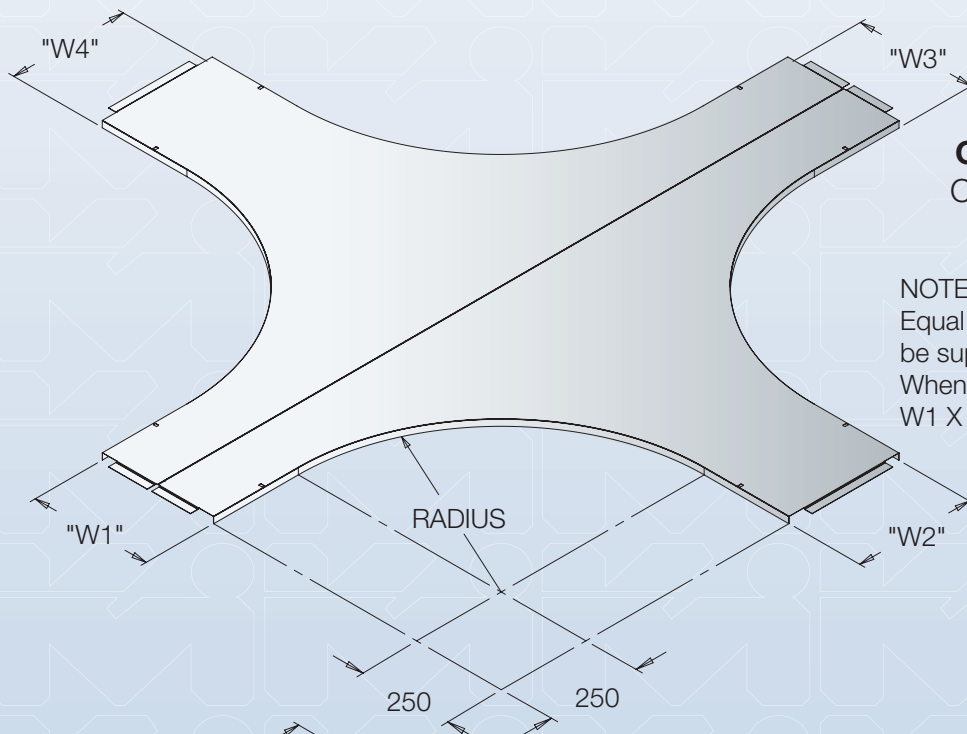
**BEND COVER**
CODE: 4FCDBS6**ORDERING INFORMATION**

4 FC D T 15 S 6

- ↑ LADDER TYPE
4 = 4/70
5 = 5/112
- ↑ FLAT COVER
- ↑ STRUCTURAL FITTING COVER
- ↑ COVER TYPE
T = Tee
B = Bend
- ↑ COVER WIDTH
e.g. 15 (150 mm)
- ↑ COVER MATERIAL/FINISH
M = 1.2 mm Galvabond
HG = 1.6 mm Hot Dip Galvanised
- ↑ RADIUS
6 = 600
9 = 900

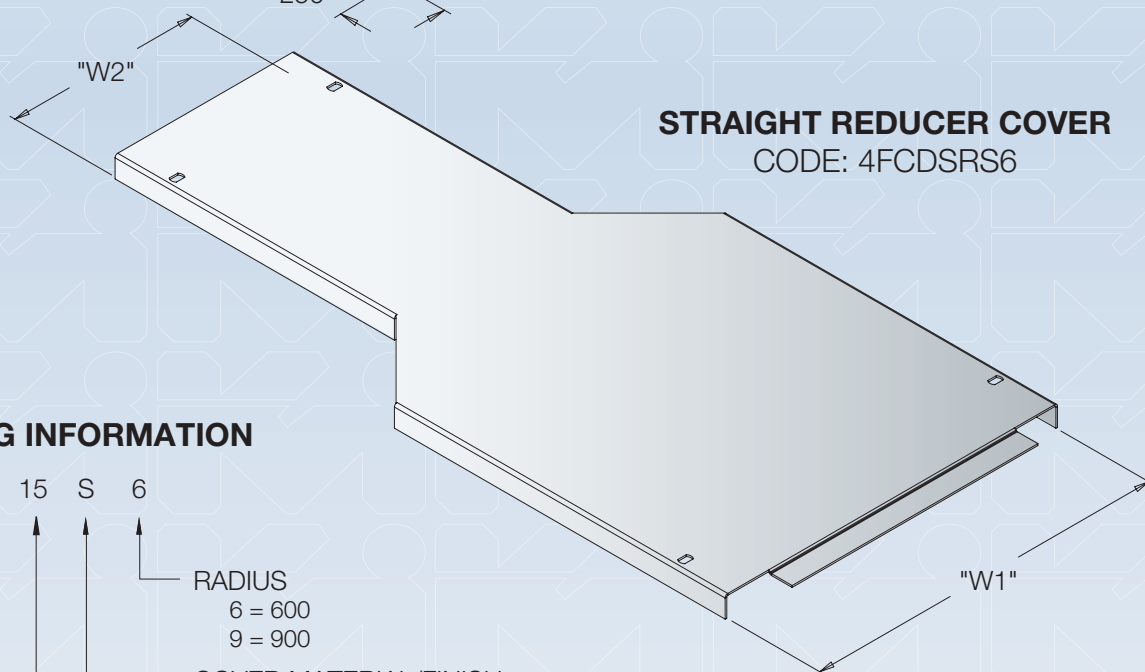
E.&O.E.

Cable Ladder **STRUCTURAL FLAT FITTING COVERS**



CROSS COVER
CODE: 4FCDCS6

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



STRAIGHT REDUCER COVER
CODE: 4FCDSRS6

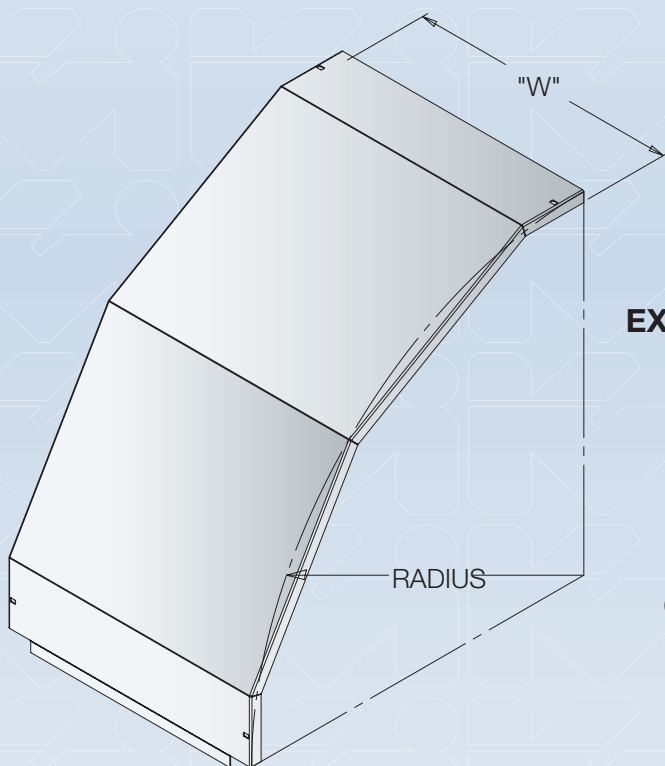
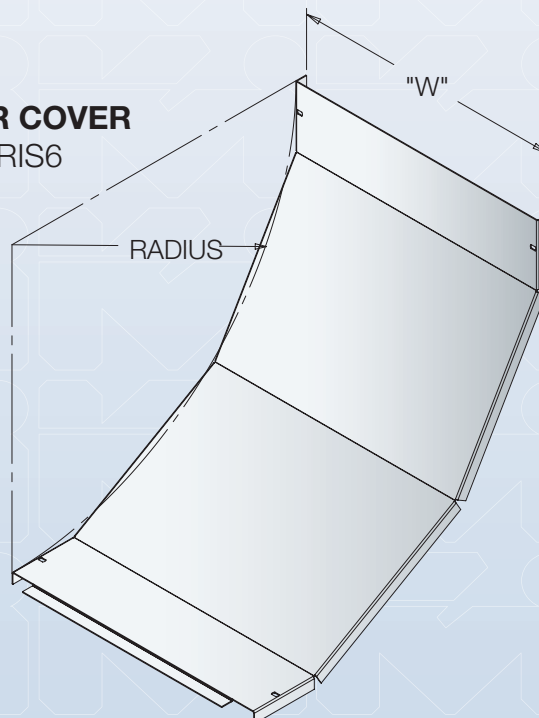
ORDERING INFORMATION

4	FC	D	T	15	S	6	
							RADIUS
							6 = 600
							9 = 900
							COVER MATERIAL/FINISH
							M = 1.2 mm Galvabond
							HG = 1.6 mm Hot Dip Galvanised
							COVER WIDTH
							e.g. 15 (150 mm)
							COVER TYPE
							C = Cross
							SR = Straight Reducer
							STRUCTURAL FITTING COVER
							FLAT COVER
							LADDER TYPE
							4 = 4/70
							5 = 5/112

E.&O.E.

Cable Ladder **STRUCTURAL FLAT FITTING COVERS****INTERNAL RISER COVER**

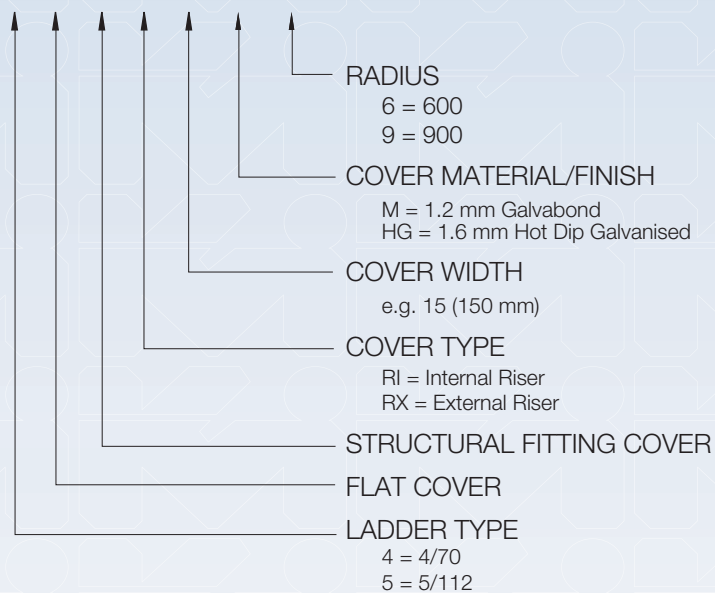
CODE: 4FCDRIS6

**EXTERNAL RISER COVER**

CODE: 4FCDRXS6

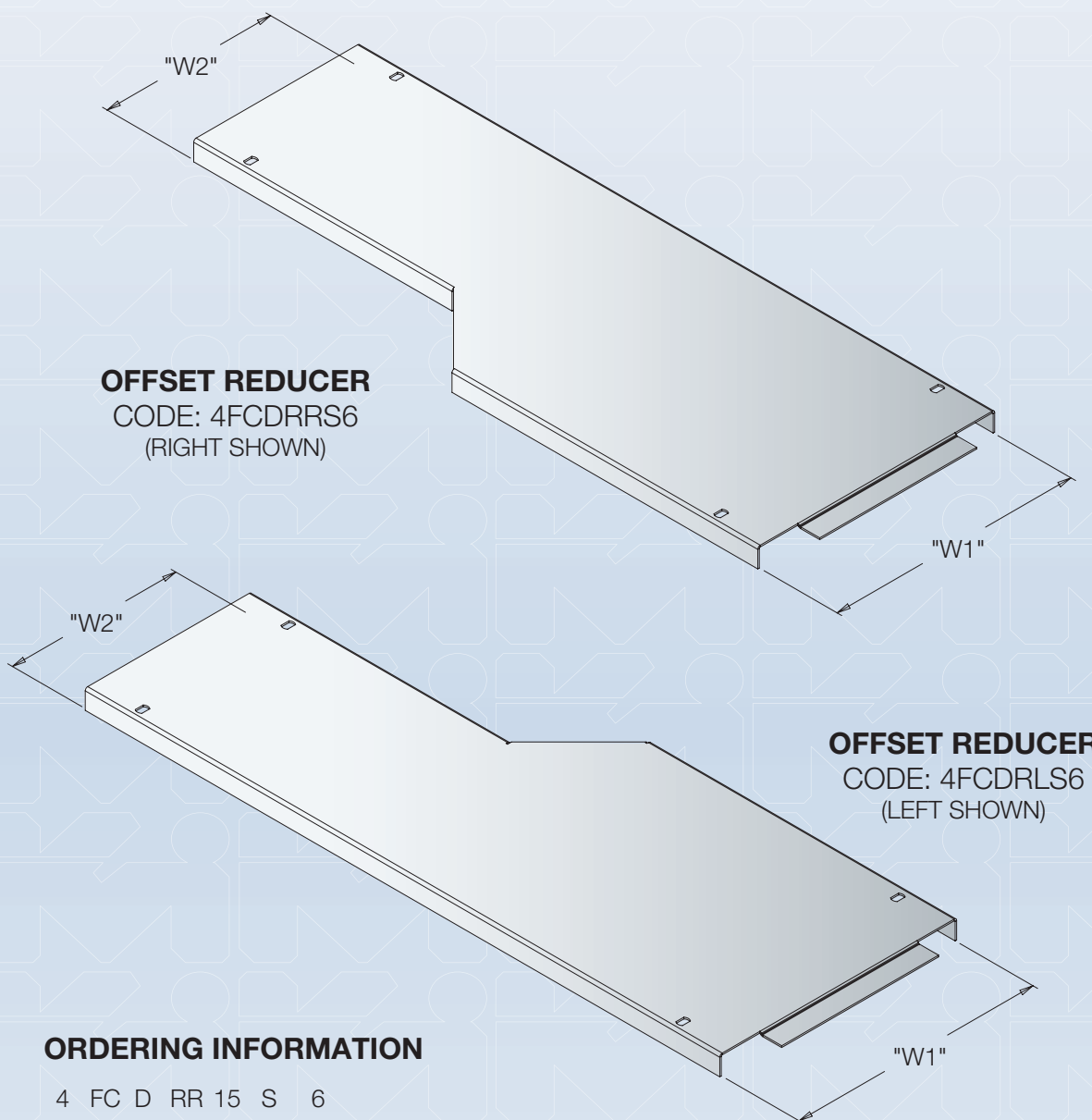
ORDERING INFORMATION

4 FC D RI 15 S 6



E.&O.E.

Cable Ladder **STRUCTURAL FLAT FITTING COVERS**

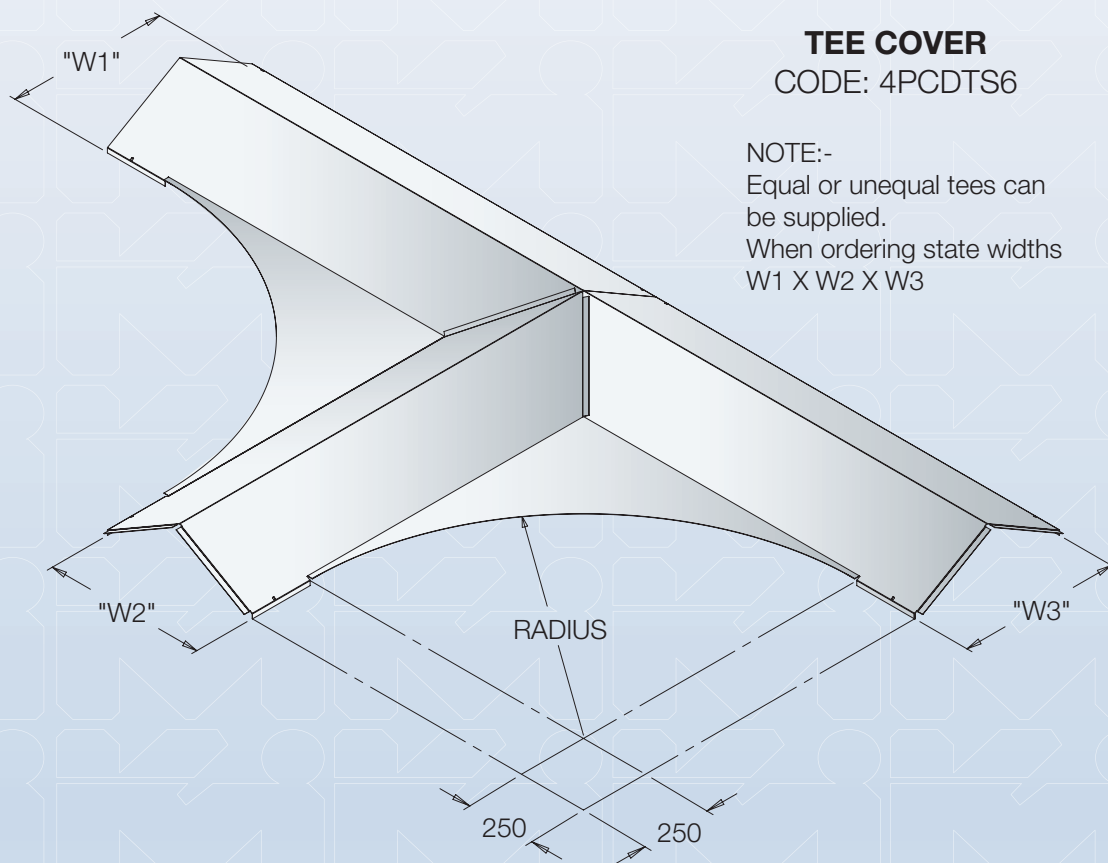


ORDERING INFORMATION

4 FC D RR 15 S 6

- ↑ LADDER TYPE
4 = 4/70
5 = 5/112
- ↑ FLAT COVER
- ↑ STRUCTURAL FITTING COVER
- ↑ COVER TYPE
RR = Right Hand reducer
RL = Left Hand Reducer
- ↑ COVER WIDTH
e.g. 15 (150 mm)
- ↑ COVER MATERIAL/FINISH
M = 1.2 mm Galvabond
HG = 1.6 mm Hot Dip Galvanised
- ↑ RADIUS
6 = 600
9 = 900

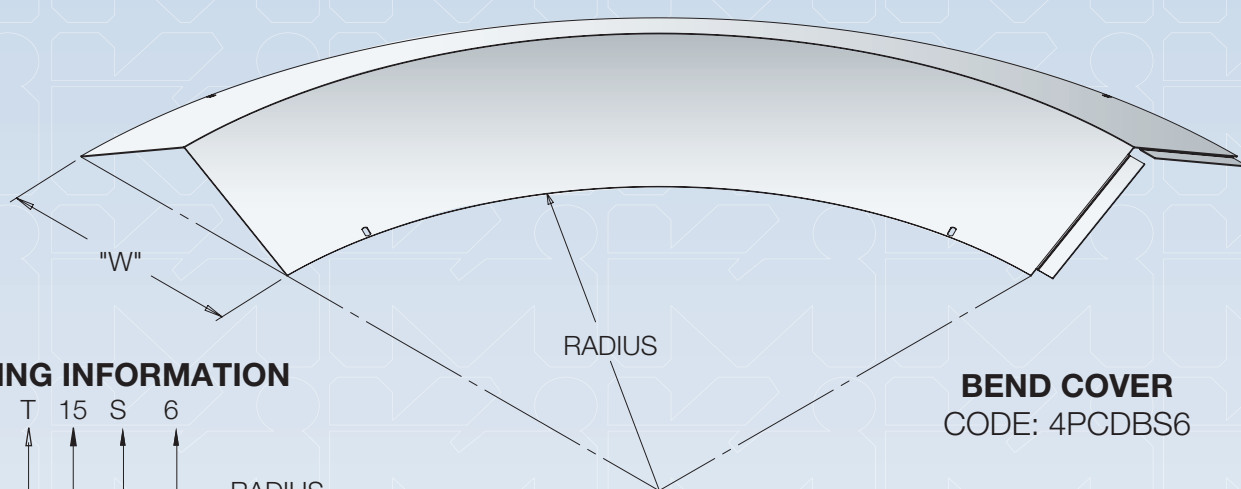
NOTE: When ordering state widths W1 x W2

Cable Ladder **STRUCTURAL PEAK FITTING COVERS****TEE COVER**

CODE: 4PCDTS6

NOTE:-

Equal or unequal tees can be supplied.
When ordering state widths
W1 X W2 X W3

**BEND COVER**

CODE: 4PCDBS6

ORDERING INFORMATION

4 PC D T 15 S 6

↑ ↑ ↑ ↑ ↑ ↑

↑ LADDER TYPE
4 = 4/70, 5 = 5/112

↑ PEAK COVER

↑ STRUCTURAL FITTING COVER

↑ COVER TYPE
T = Tee
B = Bend

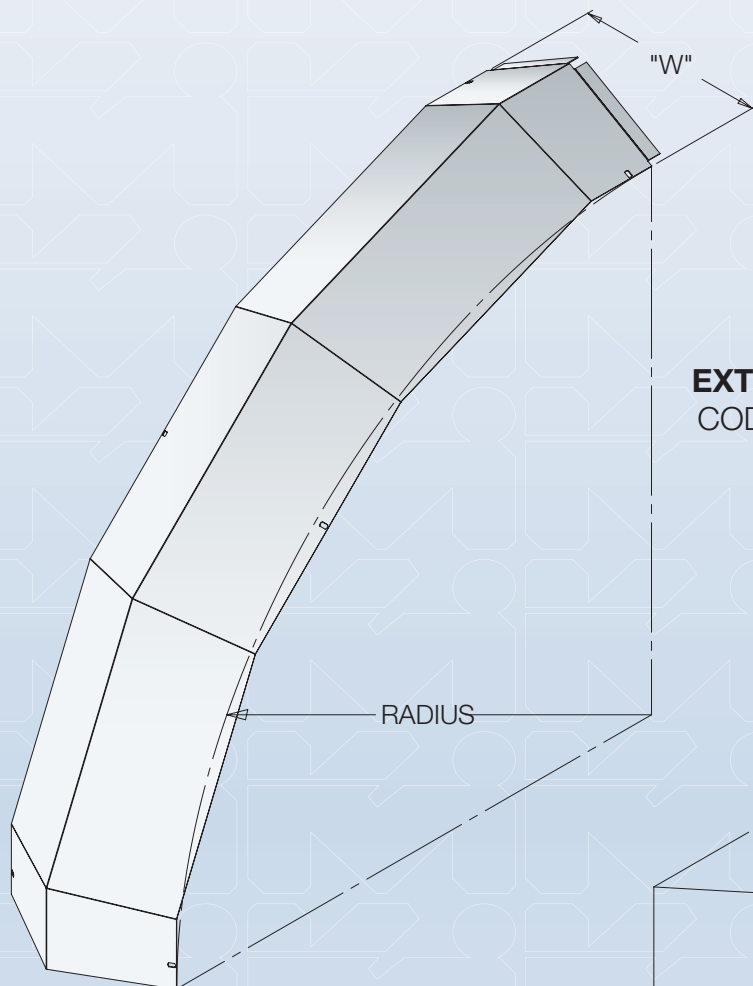
↑ COVER WIDTH
e.g. 15 (150 mm)

↑ COVER MATERIAL/FINISH
M = 1.2 mm Galvabond
HG = 1.6 mm Hot Dip Galvanised

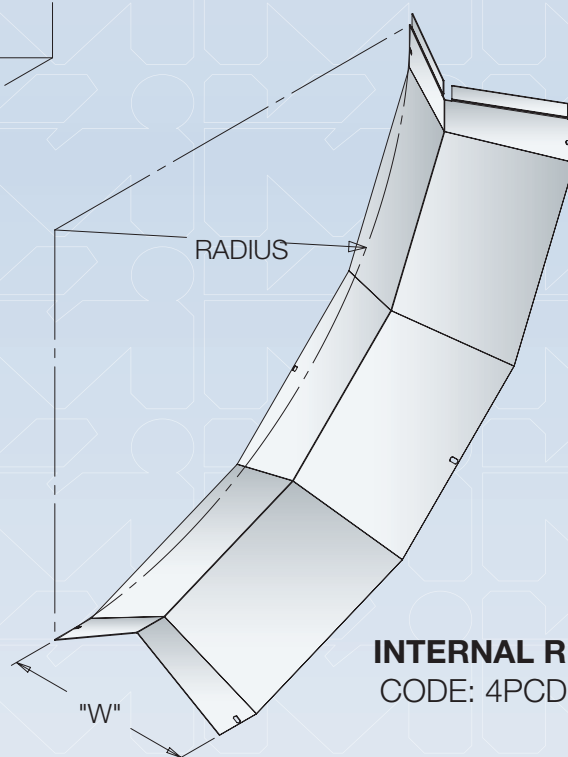
↑ RADIUS
6 = 600, 9 = 900

E.&O.E.

Cable Ladder **STRUCTURAL PEAK FITTING COVERS**



EXTERNAL RISER
CODE: 4PCDRXS6

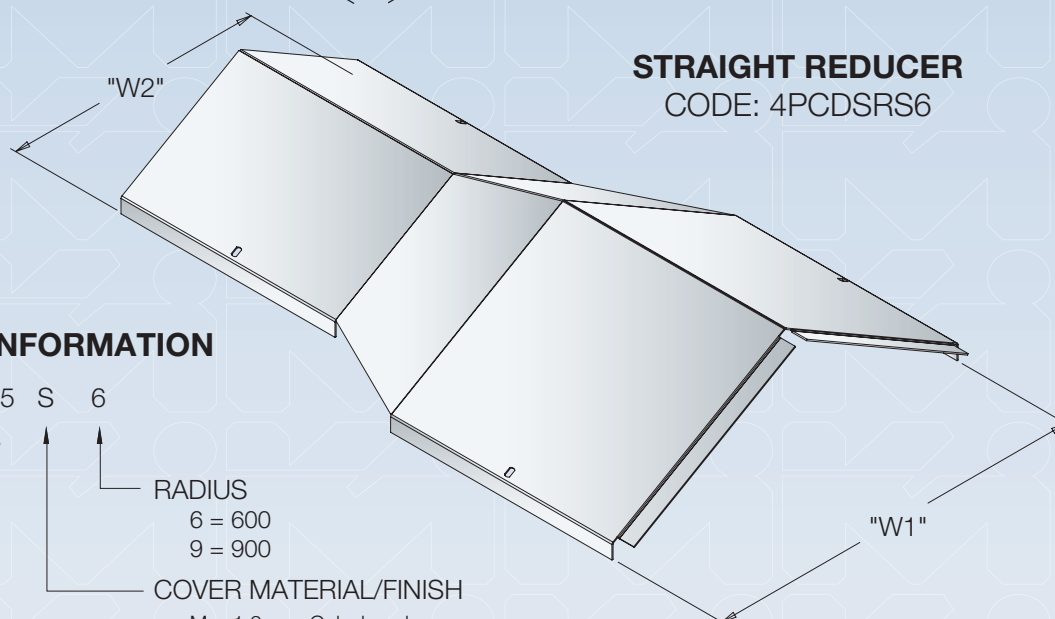
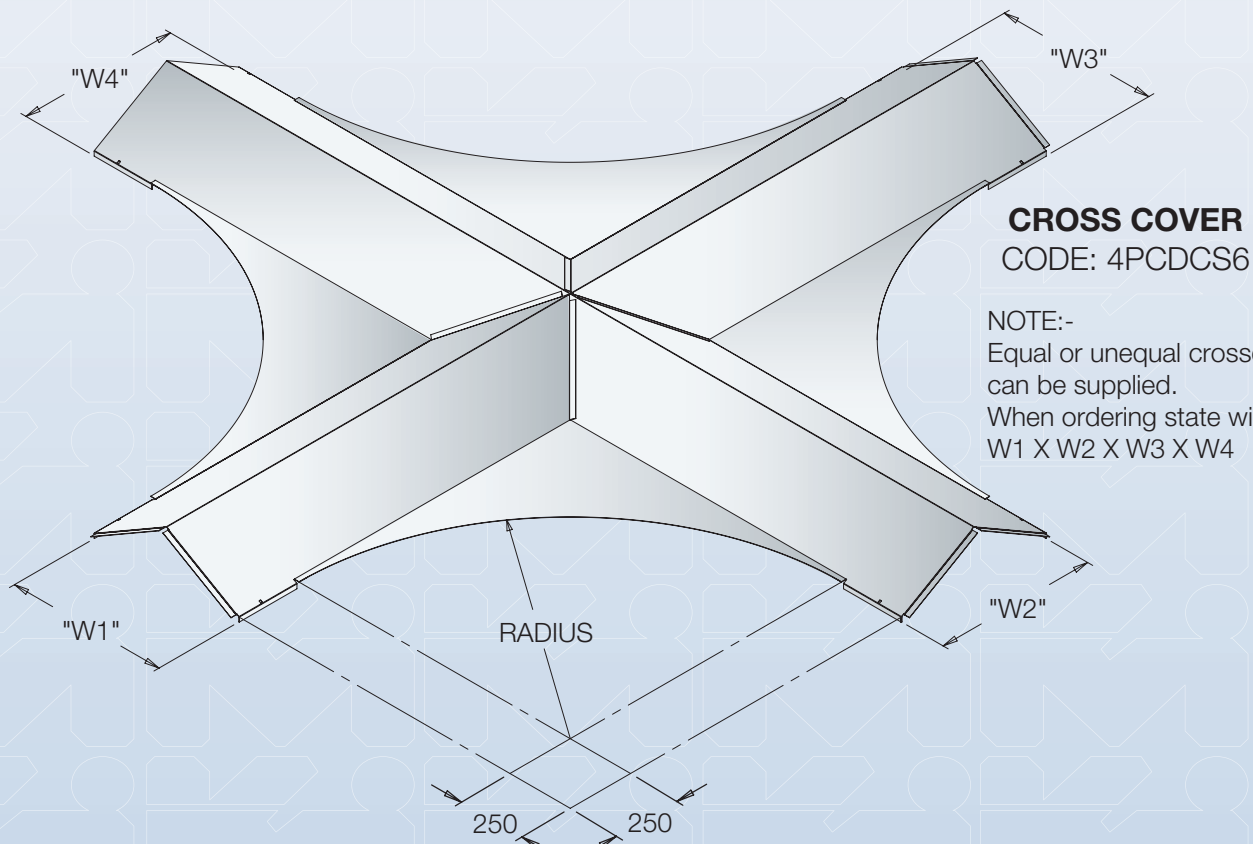


INTERNAL RISER
CODE: 4PCDRIS6

ORDERING INFORMATION

4	PC	D	RI	15	S	6	
							RADIUS
							6 = 600
							9 = 900
							COVER MATERIAL/FINISH
							M = 1.2 mm Galvabond
							HG = 1.6 mm Hot Dip Galvanised
							COVER WIDTH
							e.g. 15 (150 mm)
							COVER TYPE
							RI = Internal Riser
							RX = External Riser
							STRUCTURAL FITTING COVER
							PEAK COVER
							LADDER TYPE
							4 = 4/70
							5 = 5/112

E.&O.E.

Cable Ladder **STRUCTURAL PEAK FITTING COVERS****ORDERING INFORMATION**

4 PC D C 15 S 6

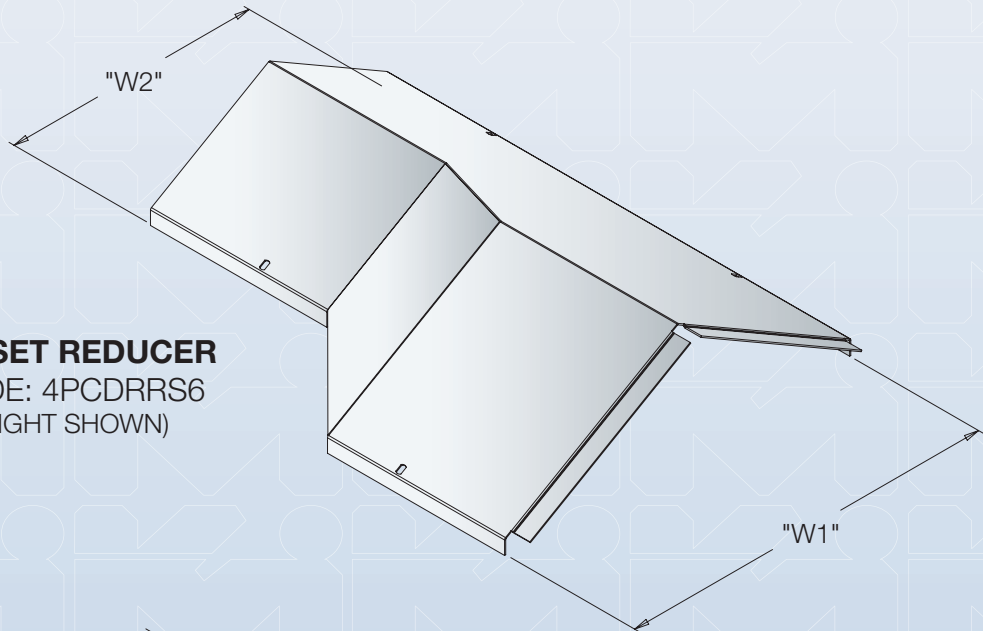
- ↑ LADDER TYPE
4 = 4/70
5 = 5/112
- ↑ PEAK COVER
- ↑ STRUCTURAL FITTING COVER
- ↑ COVER TYPE
C = Cross
SR = Straight Reducer
- ↑ COVER WIDTH
e.g. 15 (150mm)
- ↑ COVER MATERIAL/FINISH
M = 1.2 mm Galvabond
HG = 1.6 mm Hot Dip Galvanised
- ↑ RADIUS
6 = 600
9 = 900

NOTE: When ordering state widths W1 x W2

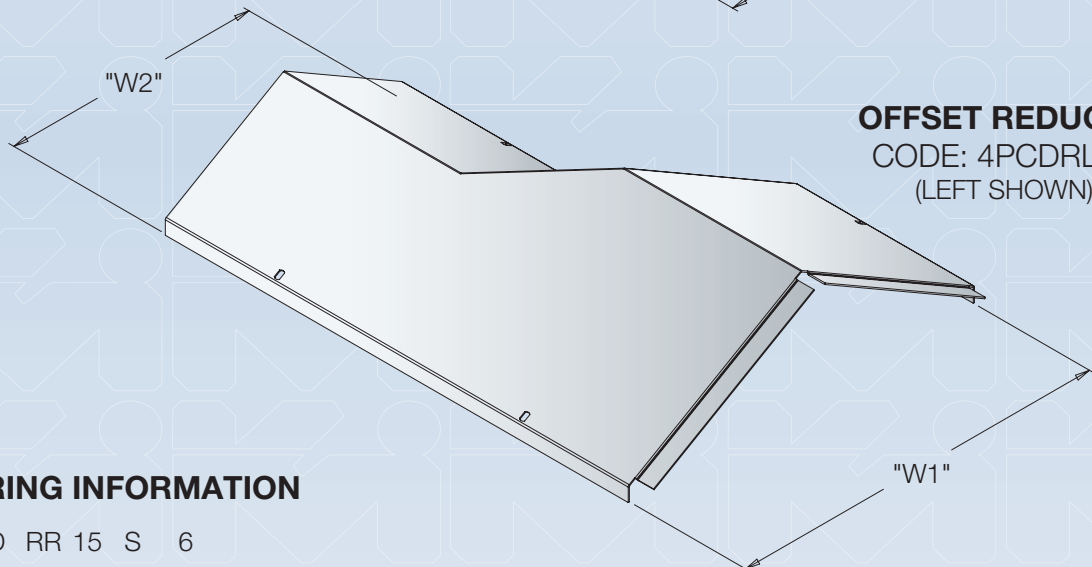
E.&O.E.

Cable Ladder **STRUCTURAL PEAK FITTING COVERS**

OFFSET REDUCER
CODE: 4PCDRRS6
(RIGHT SHOWN)



OFFSET REDUCER
CODE: 4PCDRLS6
(LEFT SHOWN)



ORDERING INFORMATION

4	PC	D	RR	15	S	6	
							RADIUS
							6 = 600
							9 = 900
							COVER MATERIAL/FINISH
							M = 1.2 mm Galvabond
							HG = 1.6 mm Hot Dip Galvanised
							COVER WIDTH
							e.g. 15 (150 mm)
							COVER TYPE
							RR = Right Hand reducer
							RL = Left Hand Reducer
							STRUCTURAL FITTING COVER
							PEAK COVER
							LADDER TYPE
							4 = 4/70
							5 = 5/112

E.&O.E.

SECTION: 7 **Cable Ladder Cover**

- Flat Cover
- Peak Cover

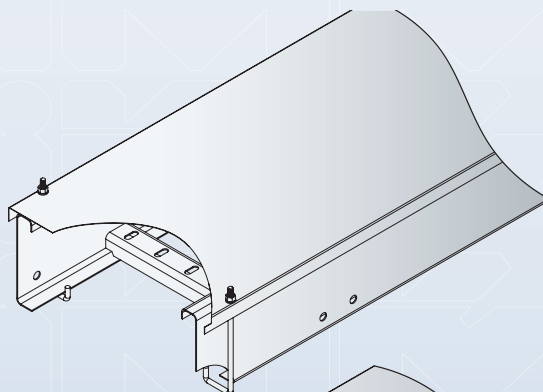
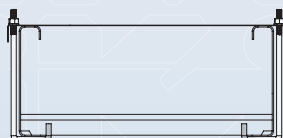


CABLE LADDER
COVER

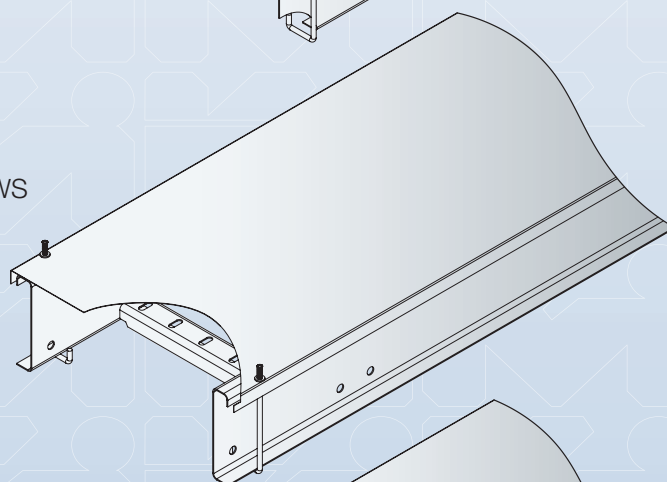
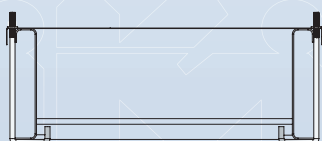
Cable Ladder **FLAT COVER**

CABLE LADDER COVERS are available in 3 Metre lengths and are made to suit KMI ladder systems.

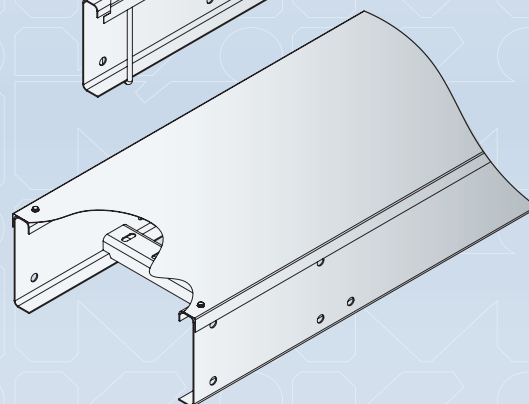
RAIL IN WITH HOOK BOLTS



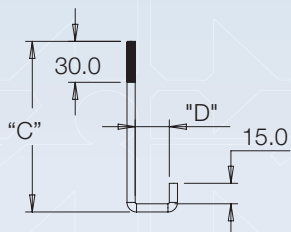
RAIL OUT WITH HOOK BOLTS OR RAIL OUT SNUG FIT WITH TEK SCREWS



SNUG FIT WITH TEK SCREWS



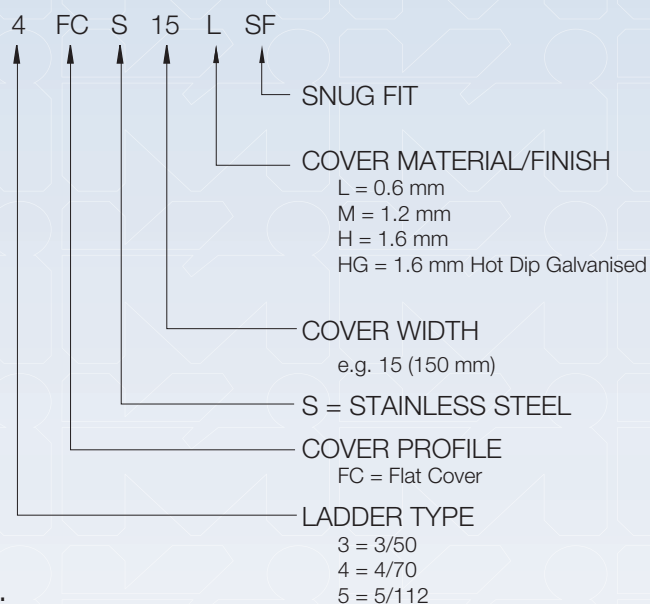
LADDER	DIM "C"	DIM "D"	CODE
3/50	125	25	3CHB
4/70	155	35	4CHB
5/112	170	35	5CHB



HOOK BOLT DETAILS

MATERIAL 316 STAINLESS STEEL
C/W NYLOCK NUT AND WASHER

ORDERING INFORMATION



E.&O.E.

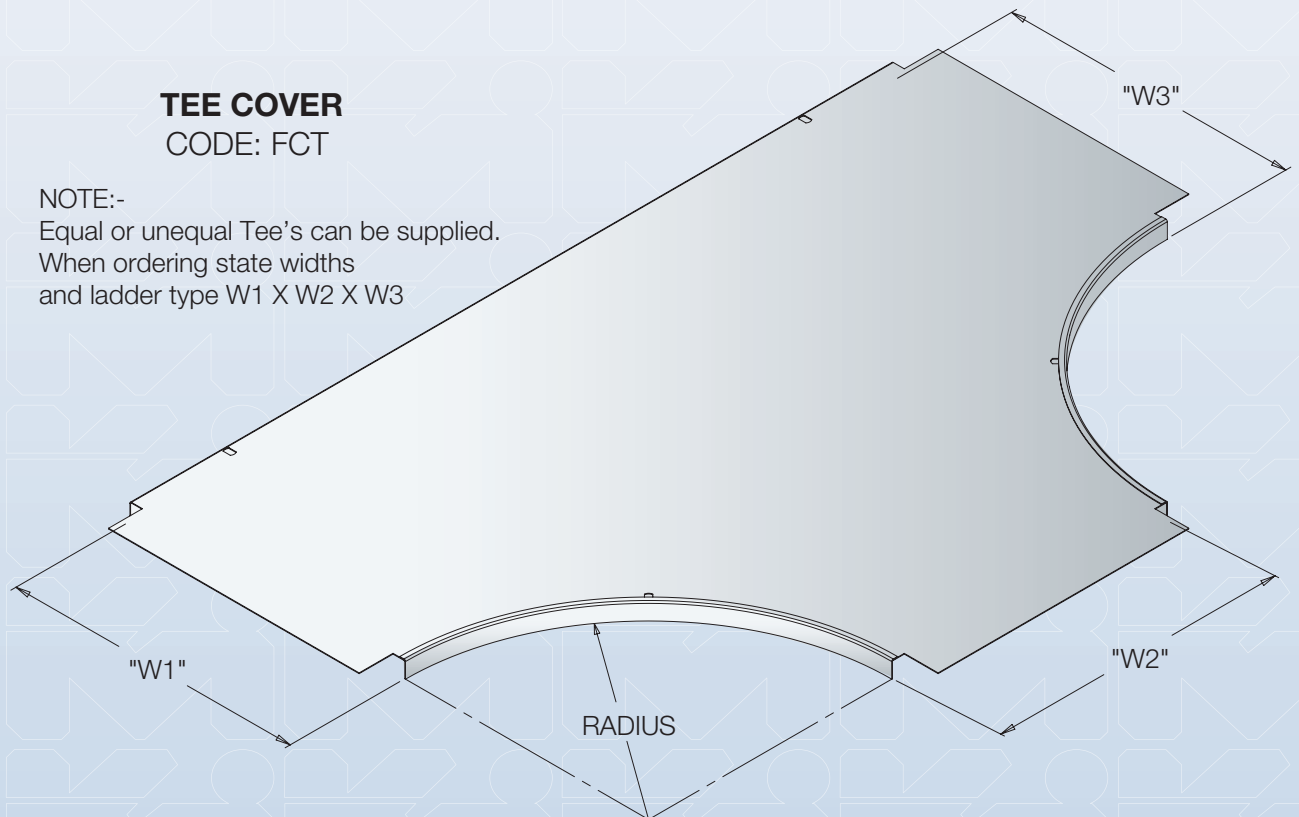
Cable Ladder **FLAT FITTING COVERS**

TEE COVER

CODE: FCT

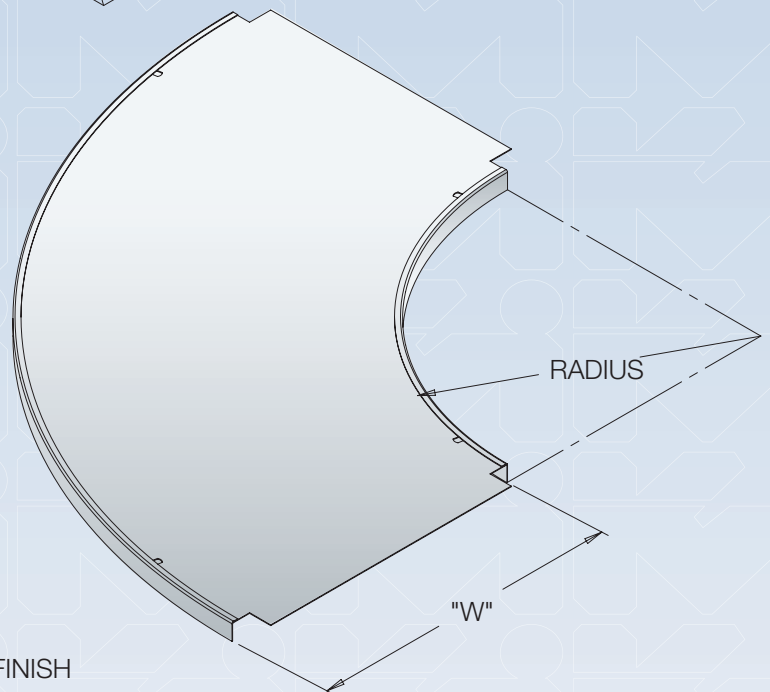
NOTE:-

Equal or unequal Tee's can be supplied.
When ordering state widths
and ladder type W1 X W2 X W3

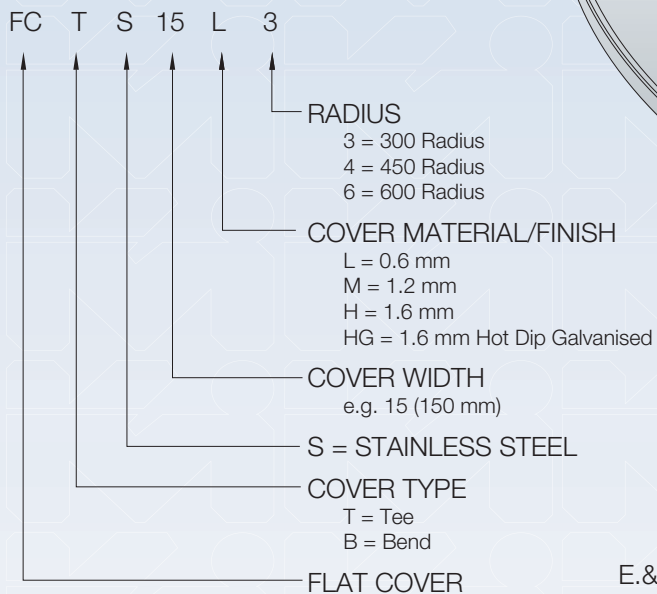


BEND COVER

CODE: FCB

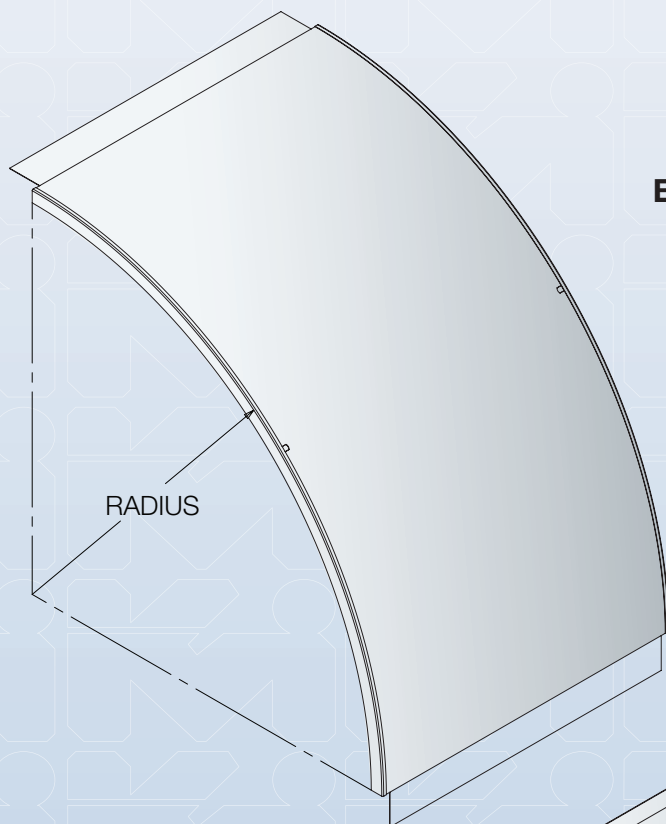


ORDERING INFORMATION

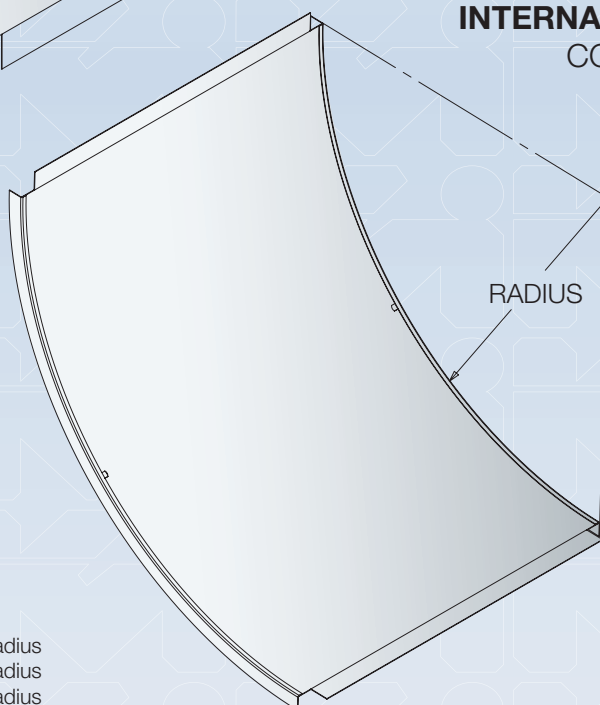


E.&O.E.

Cable Ladder **FLAT FITTING COVERS**

**EXTERNAL RISER COVER**

CODE: FCRX

**INTERNAL RISER COVER**

CODE: FCRI

ORDERING INFORMATION

FC RX S 15 L 3

RADIUS

3 = 300 Radius

4 = 450 Radius

6 = 600 Radius

COVER MATERIAL/FINISH

L = 0.6 mm

M = 1.2 mm

H = 1.6 mm

HG = 1.6 mm Hot Dip Galvanised

COVER WIDTH

e.g. 15 (150 mm)

S = STAINLESS STEEL

COVER TYPE

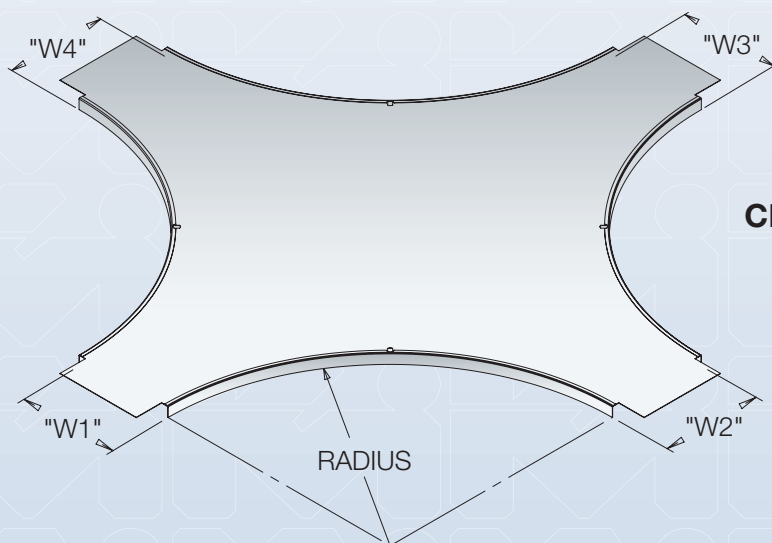
RX = External Riser

RI = Internal Riser

FLAT COVER

E.&O.E.

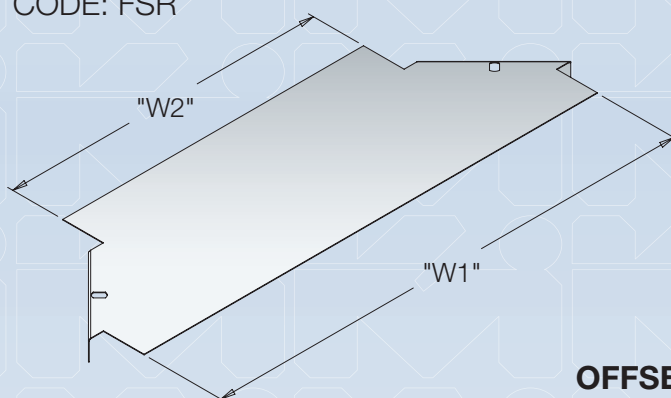
Cable Ladder **FLAT FITTING COVERS**



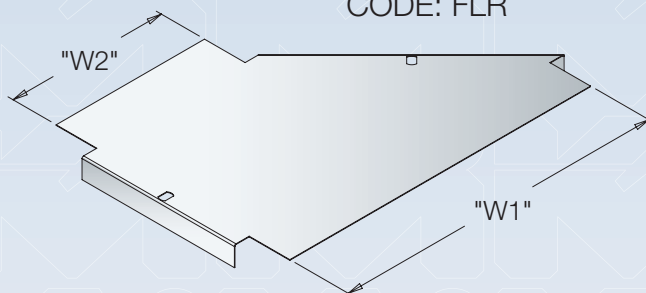
CROSS COVER
CODE: FCC

NOTE:-
Equal or unequal cross covers
can be supplied.
When ordering state widths
W1 X W2 X W3 X W4

STRAIGHT REDUCER COVER
CODE: FSR



OFFSET REDUCER COVER
(LEFT HAND SHOWN)
CODE: FLR



NOTE: When ordering state widths W1 x W2

ORDERING INFORMATION

FC C S 15 L 3

RADIUS

3 = 300 Radius
4 = 450 Radius
6 = 600 Radius

COVER MATERIAL/FINISH

L = 0.6 mm
M = 1.2 mm
H = 1.6 mm
HG = 1.6 mm Hot Dip Galvanised

COVER WIDTH
e.g. 15 (150 mm)

S = STAINLESS STEEL

COVER TYPE

C = Cross
SR = Straight Reducer
RR = Right Hand Reducer
LR = Left Hand Reducer

FLAT COVER

E.&O.E.

NOTES

CABLE LADDER COVER

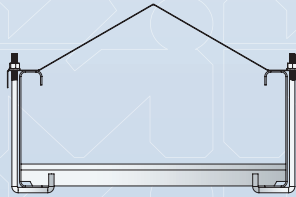
Cable Ladder **PEAK COVERS**

CABLE LADDER COVERS are available in 3 Metre lengths and are made to suit KMI ladder systems.

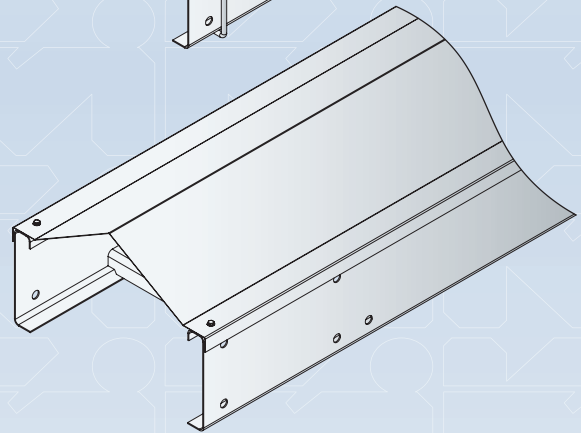
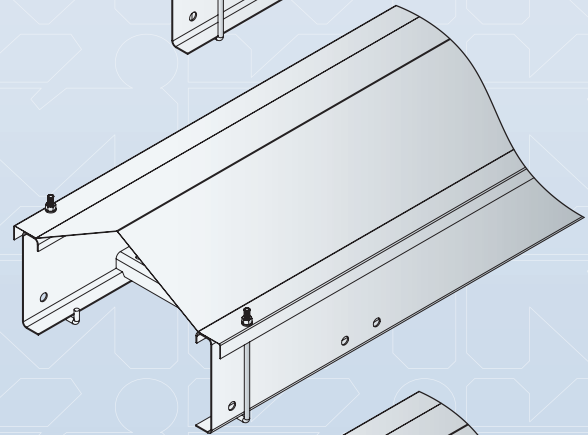
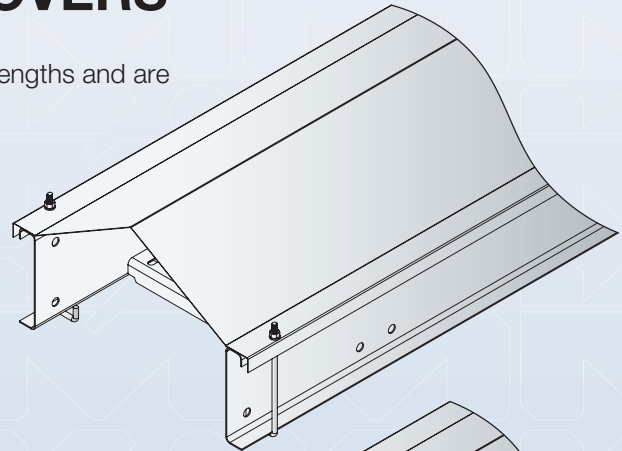
RAIL OUT WITH HOOK BOLTS OR RAIL OUT SNUG FIT WITH TEK SCREWS



RAIL IN WITH HOOK BOLTS



SNUG FIT WITH TEK SCREWS



ORDERING INFORMATION

4 PC S 15 L SF

SNUG FIT

COVER MATERIAL/FINISH

L = 0.6 mm

M = 1.2 mm

H = 1.6 mm

HG = 1.6 mm Hot Dip Galvanised

COVER WIDTH

e.g. 15 (150 mm)

S = STAINLESS STEEL

COVER PROFILE

PC = Peak Cover

LADDER TYPE

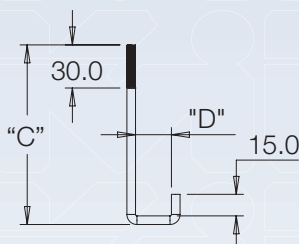
3 = 3/50

4 = 4/70

5 = 5/112

E.&O.E.

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



HOOK BOLT DETAILS
MATERIAL 316 STAINLESS STEEL
C/W NYLOCK NUT AND WASHER

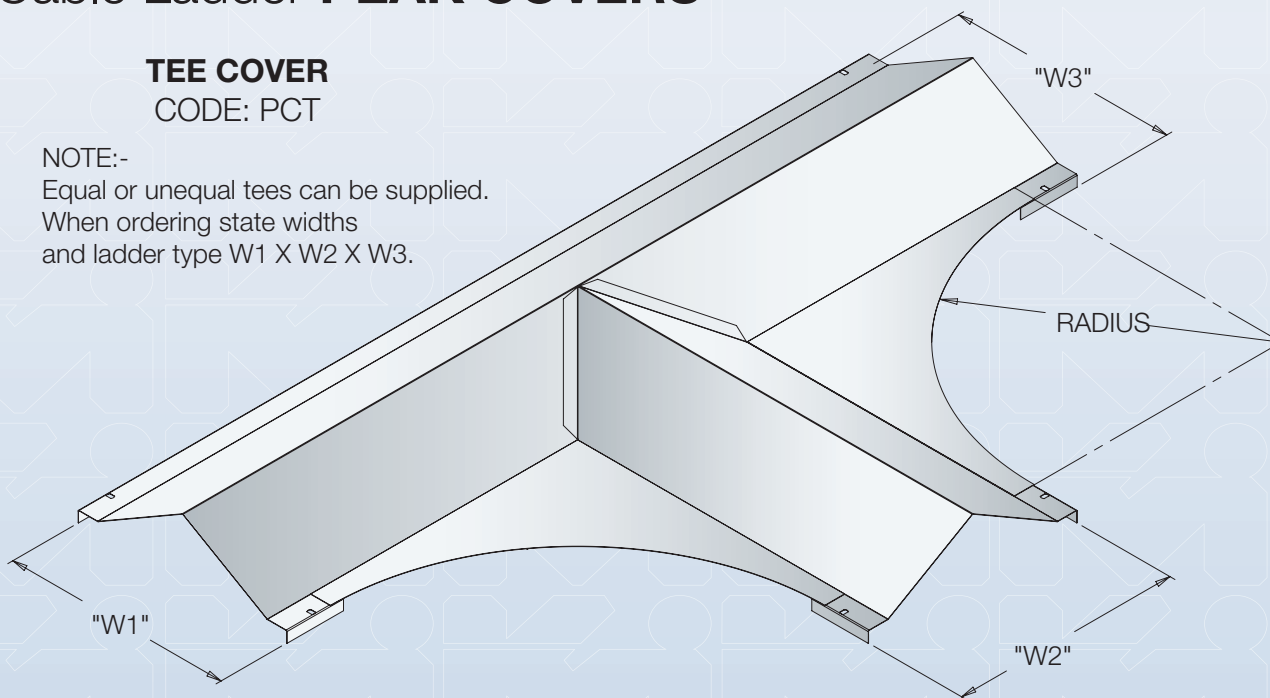
Cable Ladder **PEAK COVERS**

TEE COVER

CODE: PCT

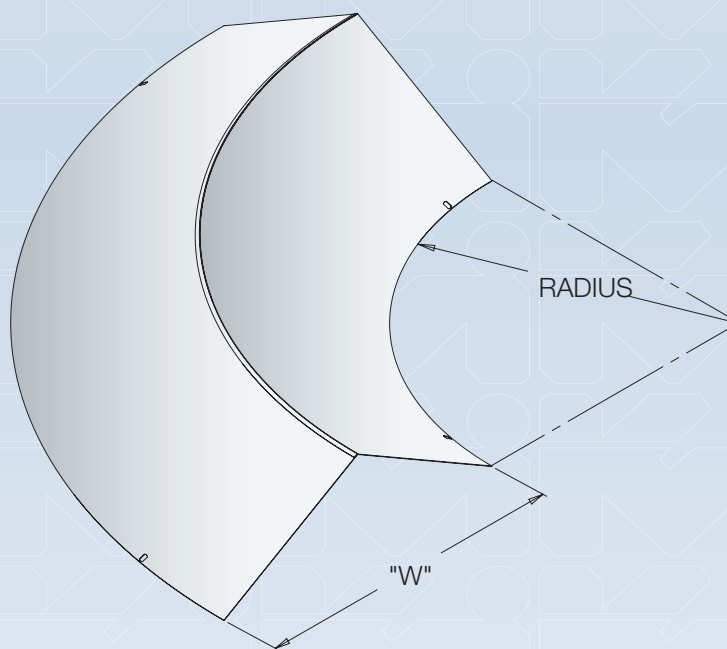
NOTE:-

Equal or unequal tees can be supplied.

When ordering state widths
and ladder type W1 X W2 X W3.

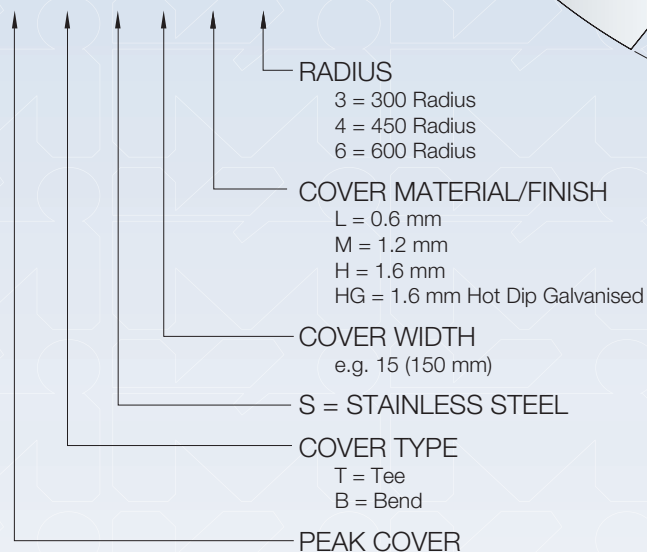
BEND COVER

CODE: PCB



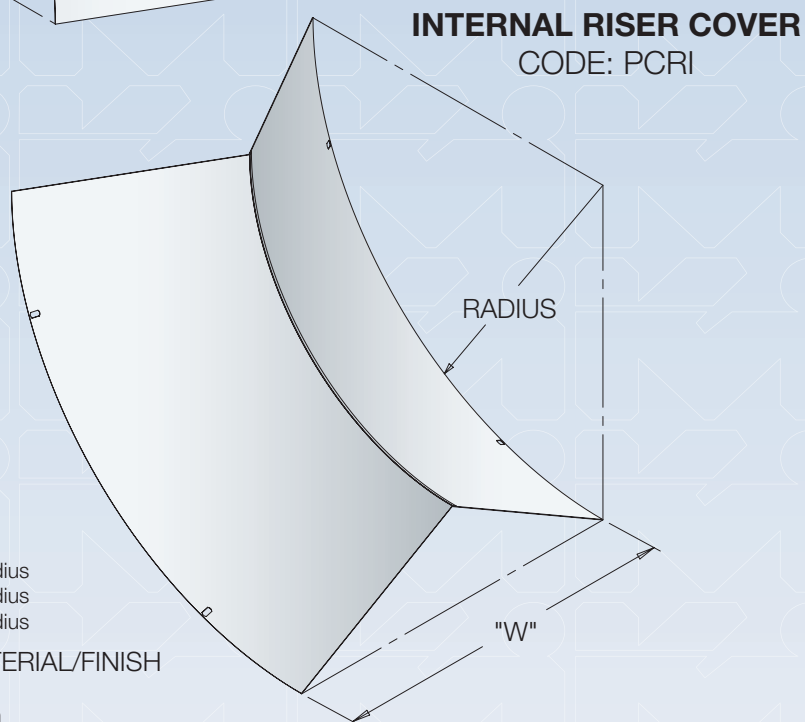
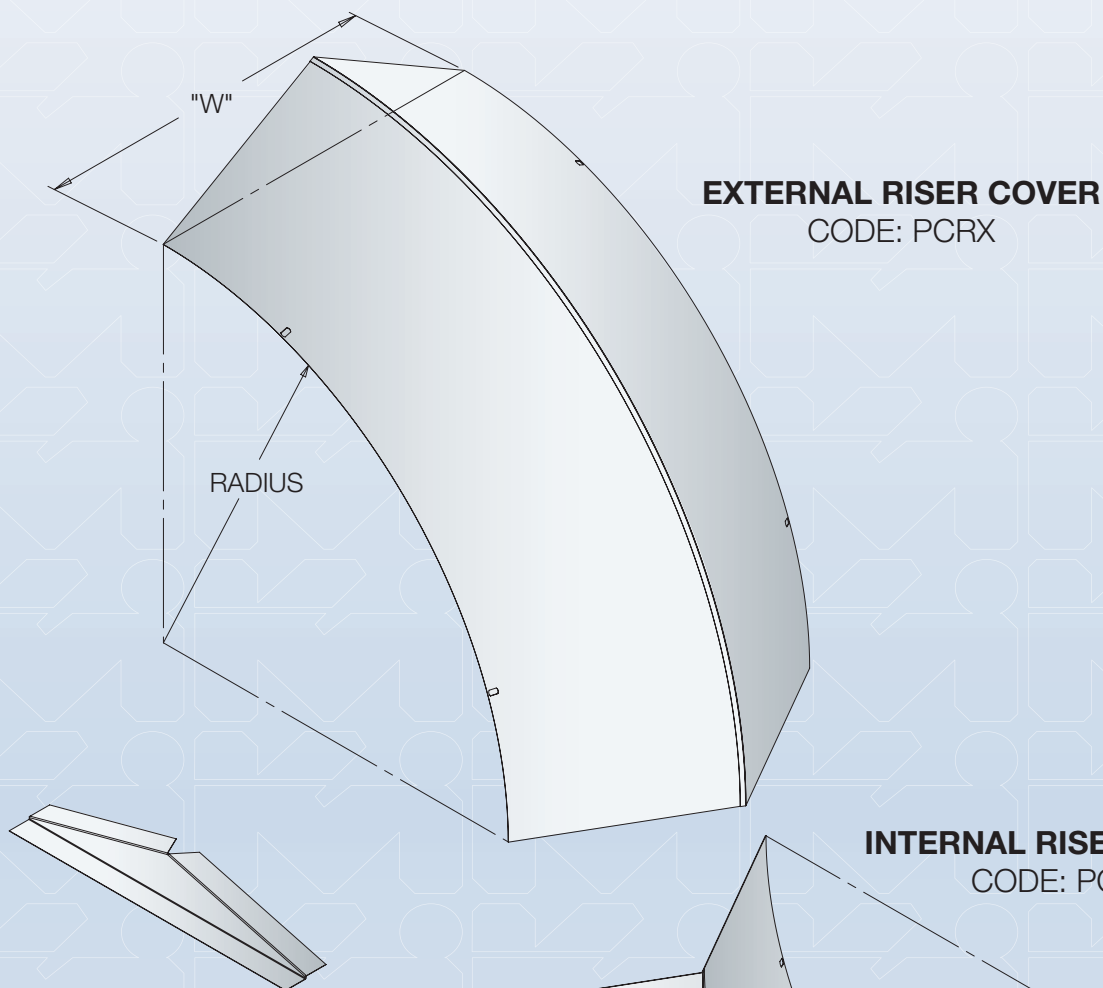
ORDERING INFORMATION

PC T S 15 L 3



E.&O.E.

Cable Ladder **PEAK FITTING COVERS**



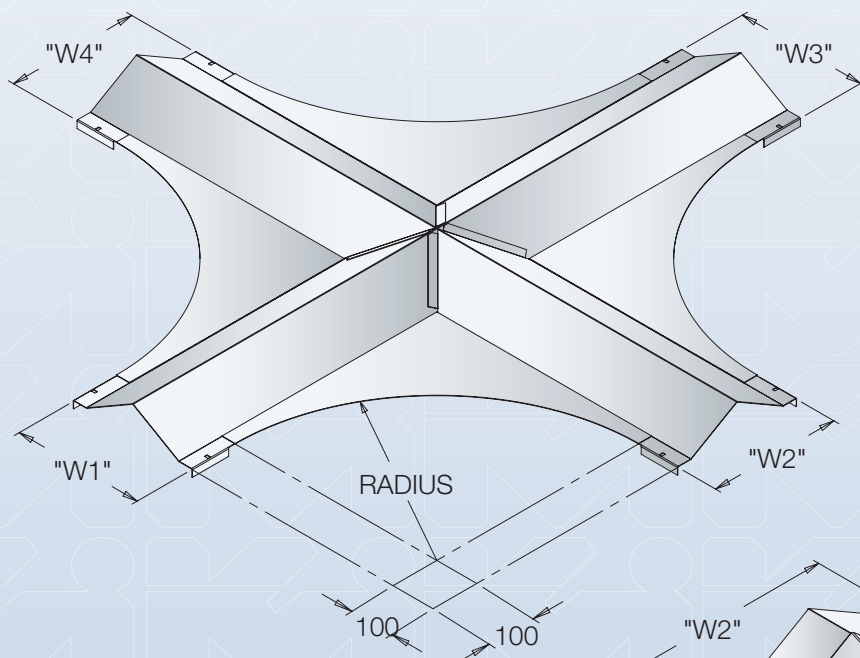
PEAK/FLAT END CAP

ORDERING INFORMATION

PC RX S 15 L 3

- ↑ **PEAK COVER**
- ↑ **COVER TYPE**
RX = External Riser
RI = Internal Riser
- ↑ **S = STAINLESS STEEL**
- ↑ **COVER WIDTH**
e.g. 15 (150 mm)
- ↑ **COVER MATERIAL/FINISH**
L = 0.6 mm
M = 1.2 mm
H = 1.6 mm
HG = 1.6 mm Hot Dip Galvanised
- ↑ **RADIUS**
3 = 300 Radius
4 = 450 Radius
6 = 600 Radius

E.&O.E.

Cable Ladder **PEAK FITTING COVERS****CROSS COVER**

CODE: PCC

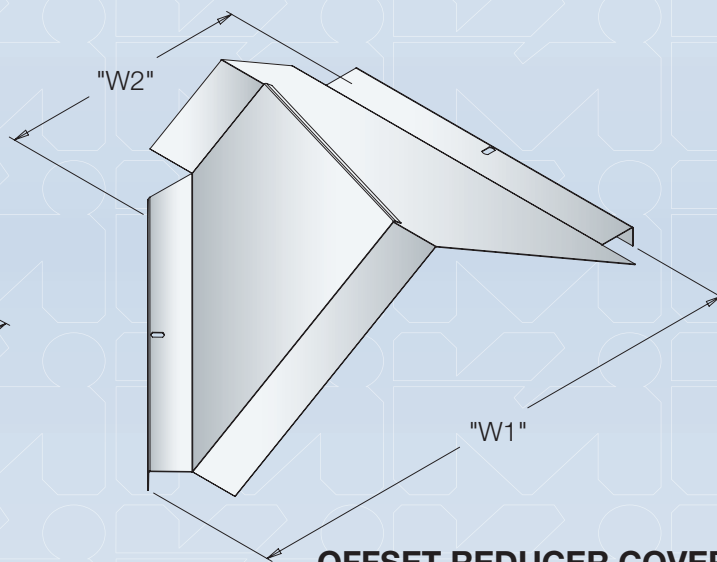
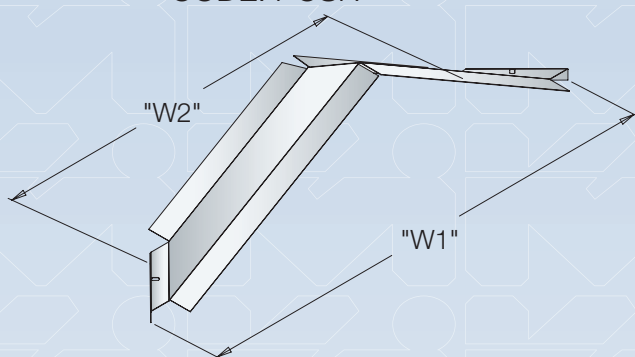
NOTE:-

Equal or unequal cross covers can be supplied.

When ordering state widths W1 X W2 X W3 X W4

STRAIGHT REDUCER COVER

CODE: PCSR

**OFFSET REDUCER COVER**

(RIGHT HAND SHOWN)

CODE: PCRR

ORDERING INFORMATION

PC C S 15 L 3

RADIUS

3 = 300 Radius

4 = 450 Radius

6 = 600 Radius

COVER MATERIAL/FINISH

L = 0.6 mm

M = 1.2 mm

H = 1.6 mm

HG = 1.6 mm Hot Dip Galvanised

COVER WIDTH

e.g. 15 (150 mm)

S = STAINLESS STEEL

COVER TYPE

C = Cross

SR = Straight Reducer

RR = Right Hand reducer

LR = Left Hand reducer

PEAK COVER

NOTE: When ordering state widths W1 x W2

E.&O.E.

NOTES

CABLELADDER COVER

SECTION: 8 **CHANNEL**

- K-Strut
- Accessories

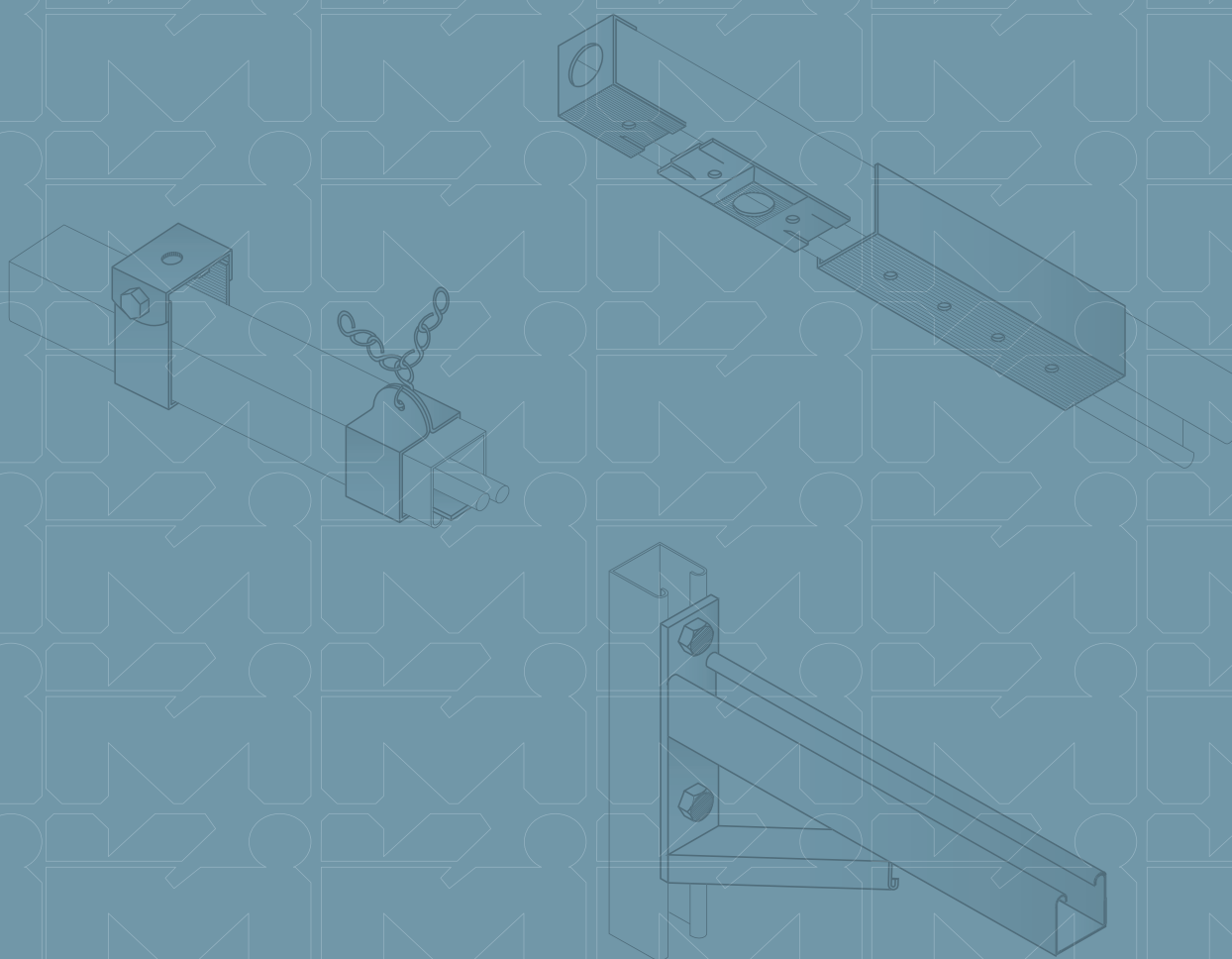
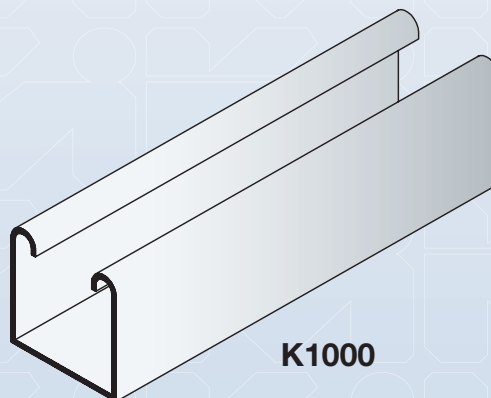
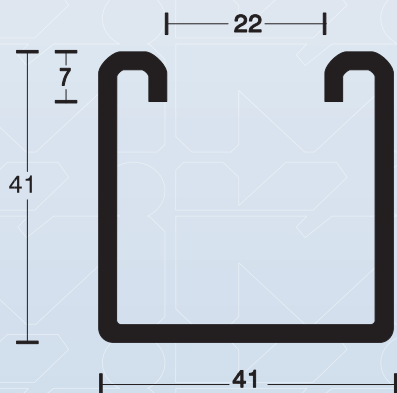


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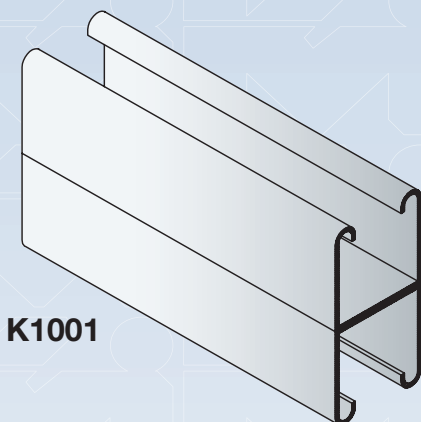


SERIES K1000 CHANNELS



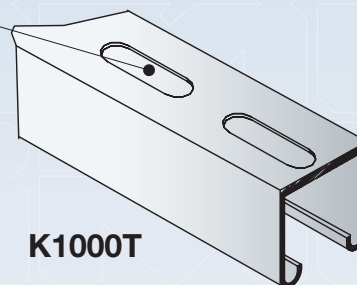
K1000

Roll Formed from 2.5mm thick plain steel.
Also available HDG, Galvabond® and 316 grade
Stainless Steel; Slotted 14 x 30 obround (T); Powder
Coating and special paint finishes on request.
Available in 6 metre lengths. Weight 2.6kg/m.



K1001

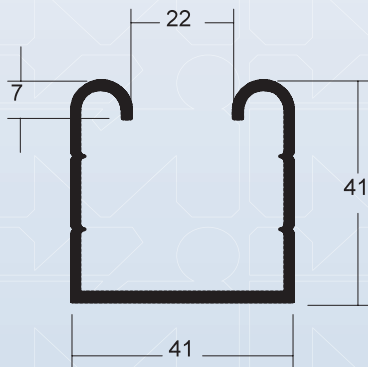
14 X 30 SLOTS



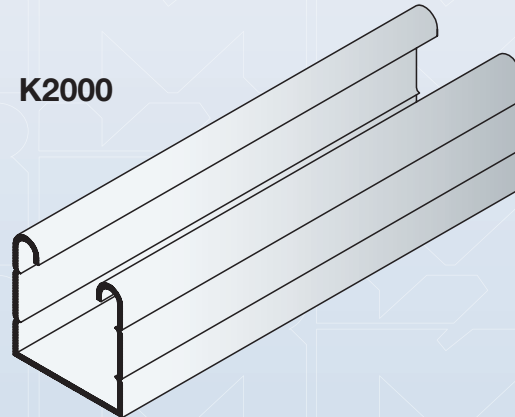
K1000T

E. & O.E.

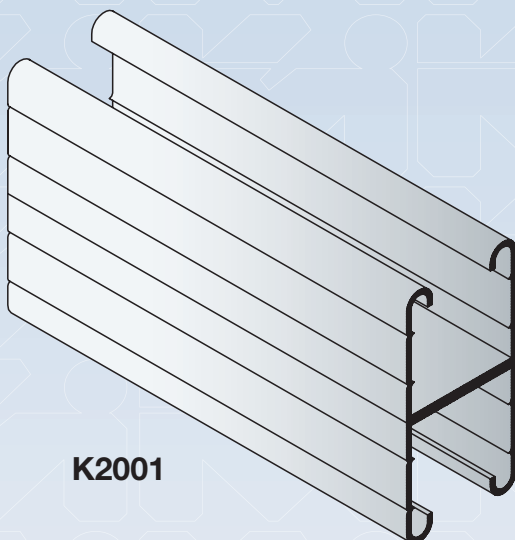
SERIES K2000 CHANNELS



K2000

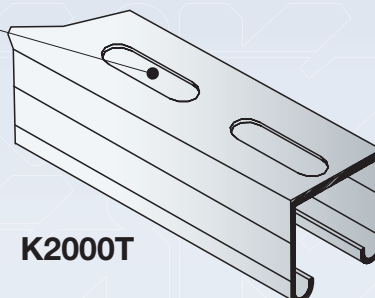


Roll Formed from 1.6mm thick plain steel.
Also available Galvabond®; Slotted 14 x 30 obround (T);
Powder Coating and special paint finishes on request.
Available in 6 metre lengths. Weight 1.8kg/m.



K2001

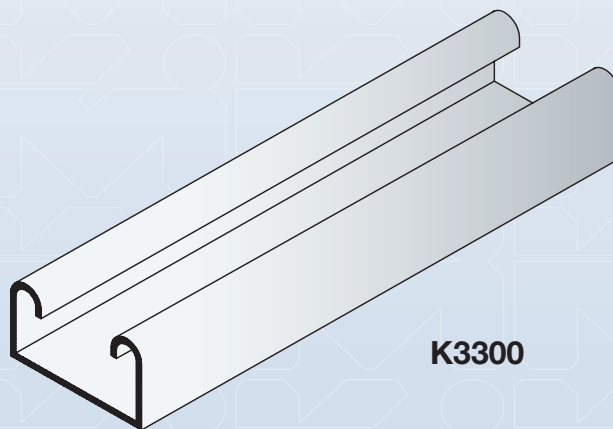
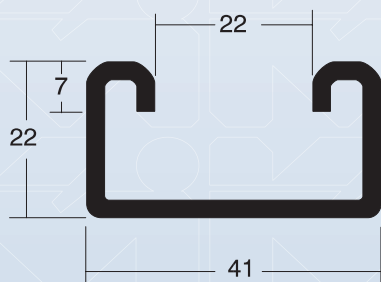
14 X 30 SLOTS



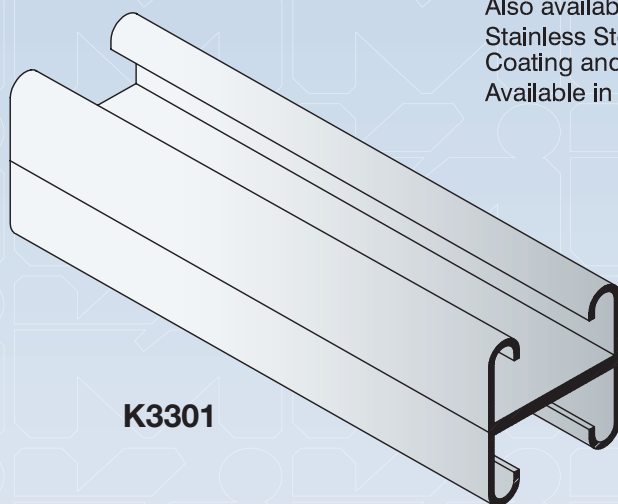
K2000T

E. & O.E.

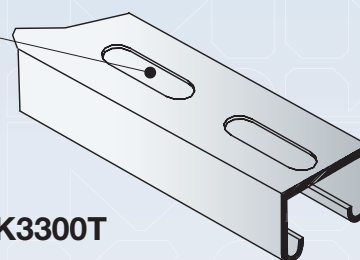
SERIES K3300 CHANNELS


K3300

Roll Formed from 2.5mm thick plain steel.
Also available HDG, Galvabond[®] and 316 grade
Stainless Steel; Slotted 14 x 30 obround (T); Powder
Coating and special paint finishes on request.
Available in 6 metre lengths. Weight 1.9kg/m.

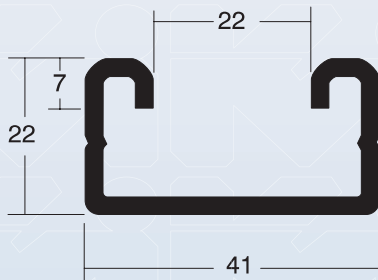

K3301

14 X 30 SLOTS


K3300T

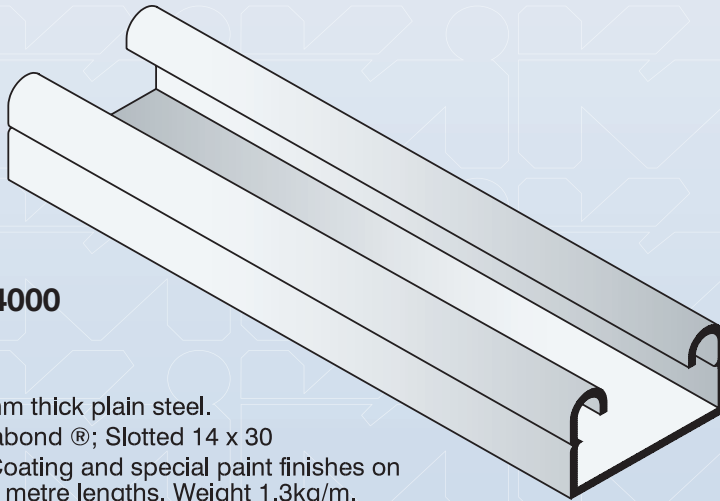
E. & O.E.

SERIES K4000 CHANNELS

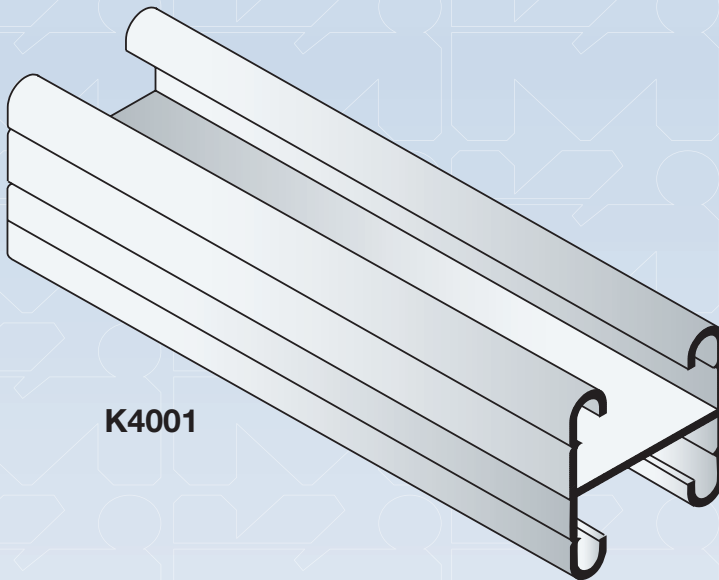


K4000

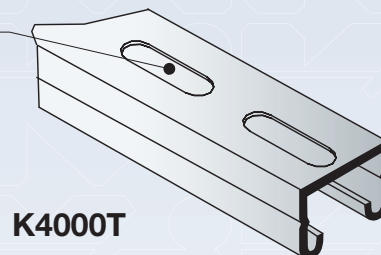
Roll Formed from 1.6mm thick plain steel.
Also available in Galvabond ®; Slotted 14 x 30
obround (T); Powder Coating and special paint finishes on
request. Available in 6 metre lengths. Weight 1.3kg/m.



K4001



14 X 30 SLOTS

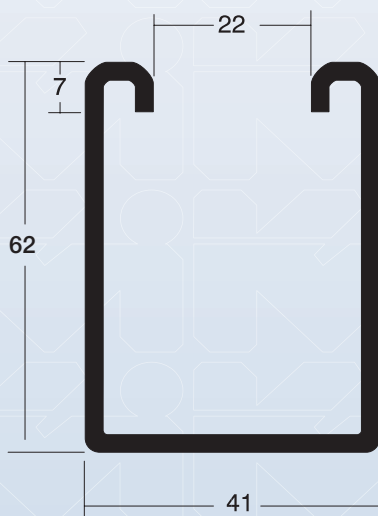


K4000T

E. & O.E.

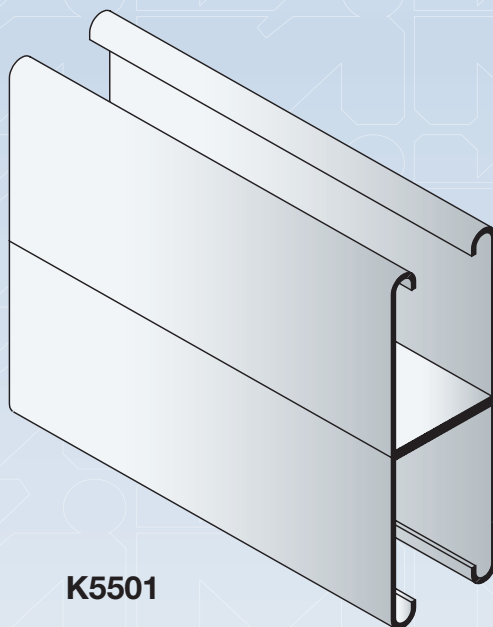
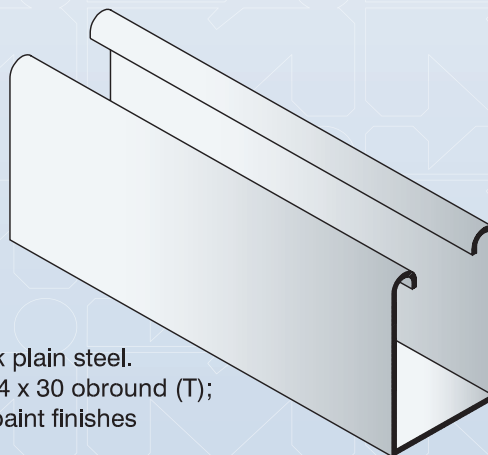


SERIES K5500 CHANNELS



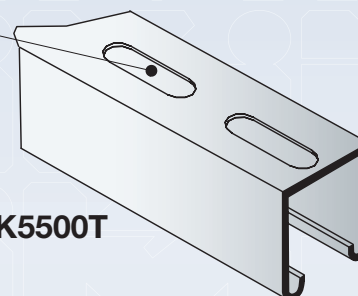
K5500

Roll Formed from 2.5mm thick plain steel.
Also available HDG; Slotted 14 x 30 obround (T);
Powder Coating and special paint finishes
on request.
Available in 6 metre lengths. Weight 3.4kg/m.



K5501

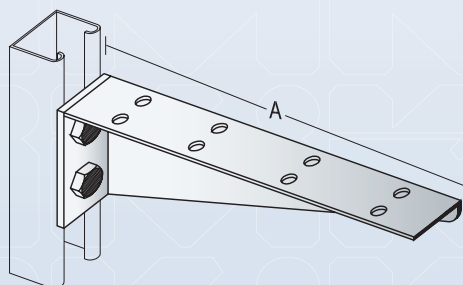
14 X 30 SLOTS



K5500T

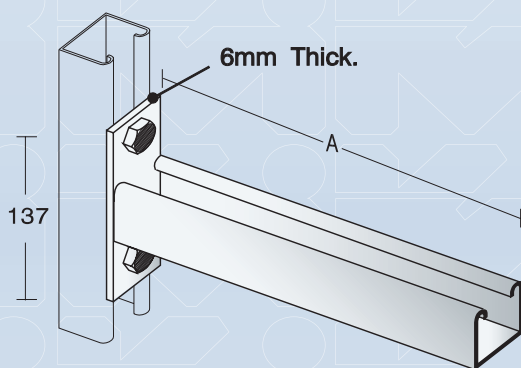
E. & O.E.

CANTILEVER BRACKETS



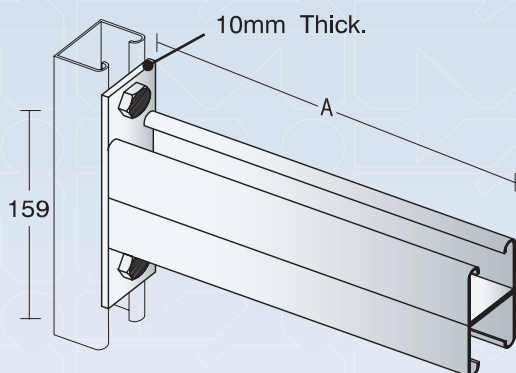
2.5 mm Galvabond Z300

	LENGTH "A"
K2491	152 mm
K2492	203 mm
K2493	254 mm
K2494	305 mm
K2495	356 mm
K2497	457 mm
K2500	610 mm



	LENGTH "A"
K2513F	204 mm
K2514F	350 mm
K2515F	497 mm
K2516F	663 mm
K2517F	780 mm

Finish H.D.G.



	LENGTH "A"
K2542	350 mm
K2543	497 mm
K2544	663 mm
K2545	762 mm
K2546	914 mm

Finish H.D.G.

NOTES: Hole diameter 14 mm

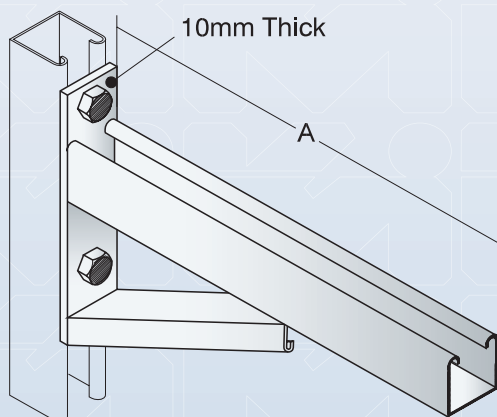
HHS1230 M12 x 30 mm hex head set screws and K1010
M12 channel nuts are zinc plated and are ordered separately.

Stainless Steel Brackets and Fixings
available on request.

E. & O.E.



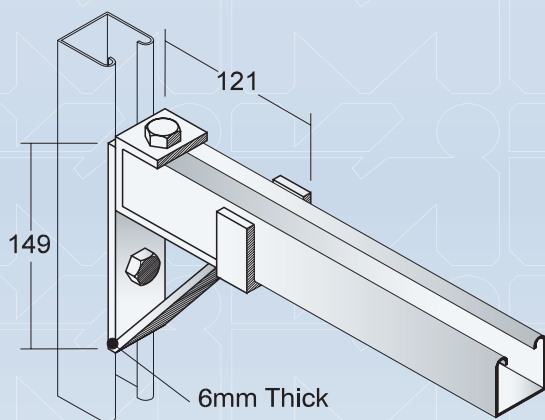
BRACED CANTILEVER BRACKETS



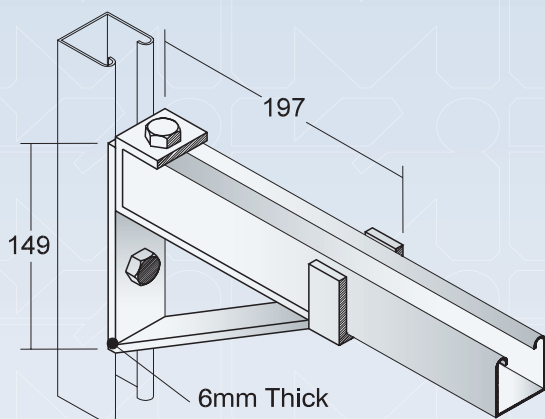
BRACED CANTILEVER BRACKET

K2514B
K2515B
K2516B
K2517B

LENGTH "A"
350 mm
497 mm
663 mm
780 mm



K1075
Series K1000 channel



K1075A
Series K1000 channel

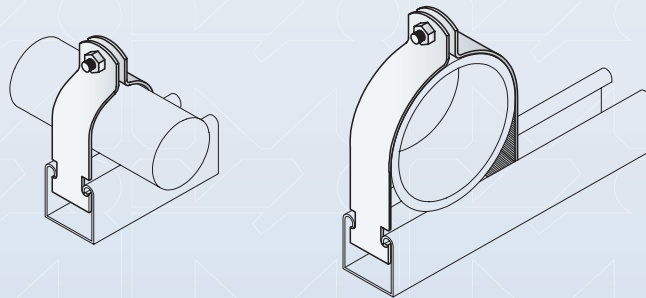
NOTES: Hole diameter 14 mm
HHS1230 M12 x 30 mm hex head set screws and K1010
M12 channel nuts are zinc plated and are ordered separately.

Stainless Steel Brackets and Fixings
available on request.

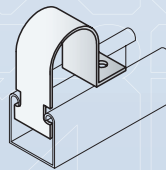
E. & O.E.

PIPE, CABLE & CONDUIT CLAMPS

Part No.	Size	Part No.	Size
K5 8	6mm	K5 86	86mm
K5 10	10mm	K5 89	89mm
K5 12	12mm	K5 92	92mm
K5 16	16mm	K5 95	95mm
K5 18	18mm	K5 98	98mm
K5 20	19mm	K5 102	102mm
K5 21	21mm	K5 105	105mm
K5 22	22mm	K5 108	108mm
K5 25	25mm	K5 111	111mm
K5 27	27mm	K5 114	114mm
K5 29	29mm	K5 117	117mm
K5 32	32mm	K5 121	121mm
K5 34	34mm	K5 127	127mm
K5 35	35mm	K5 133	133mm
K5 38	38mm	K5 139	139mm
K5 42	42mm	K5 146	146mm
K5 43	43mm	K5 152	152mm
K5 44	44mm	K5 159	159mm
K5 48	48mm	K5 165	165mm
K5 49	49mm	K5 178	178mm
K5 51	51mm	K5 191	191mm
K5 54	54mm	K5 203	203mm
K5 57	57mm	K5 219	219mm
K5 60	60mm	K5 230	230mm
K5 64	64mm	K5 241	241mm
K5 67	67mm	K5 254	254mm
K5 70	70mm	K5 305	305mm
K5 76	76mm	K5 315	315mm
K5 79	79mm	K5 324	324mm
K5 83	83mm		

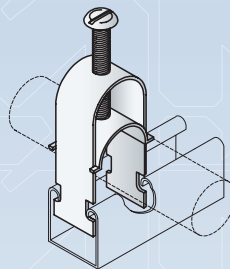


NOTES: All dimensions are pipe O.D.
Nuts and bolts included.
Zinc Plated Finish



	Pipe Dia.		Pipe Dia.
K1600-34	34mm	K1600- 89	89mm
K1600-43	43mm	K1600-102	102mm
K1600-48	48mm	K1600-114	114mm
K1600-60	60mm	K1600-152	152mm
K1600-76	76mm	K1600-165	165mm

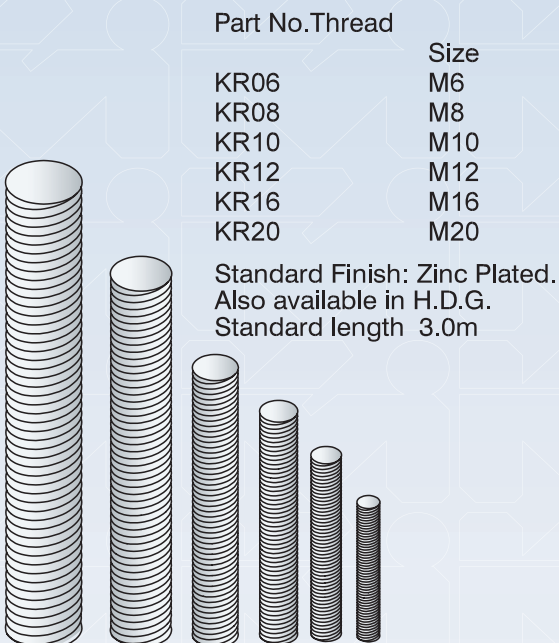
NOTES: Set screw & nut ordered separately.



	Cable Dia.
K5028-1	19mm
K5030-1	25mm
K5032-1	32mm
K5034-1	38mm
K5036-1	44mm
K5038-1	51mm

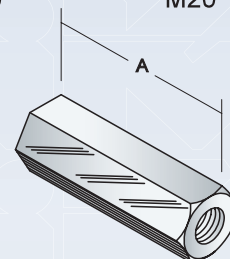
NOTES: Set screw & nut ordered separately

Threaded Rods



Threaded Rod Couplers

Part No.	Length 'A'	Thread Size
KC06	20	M6
KC08	20	M8
KC10	30	M10
KC12	40	M12
KC16	50	M16
KC20	50	M20

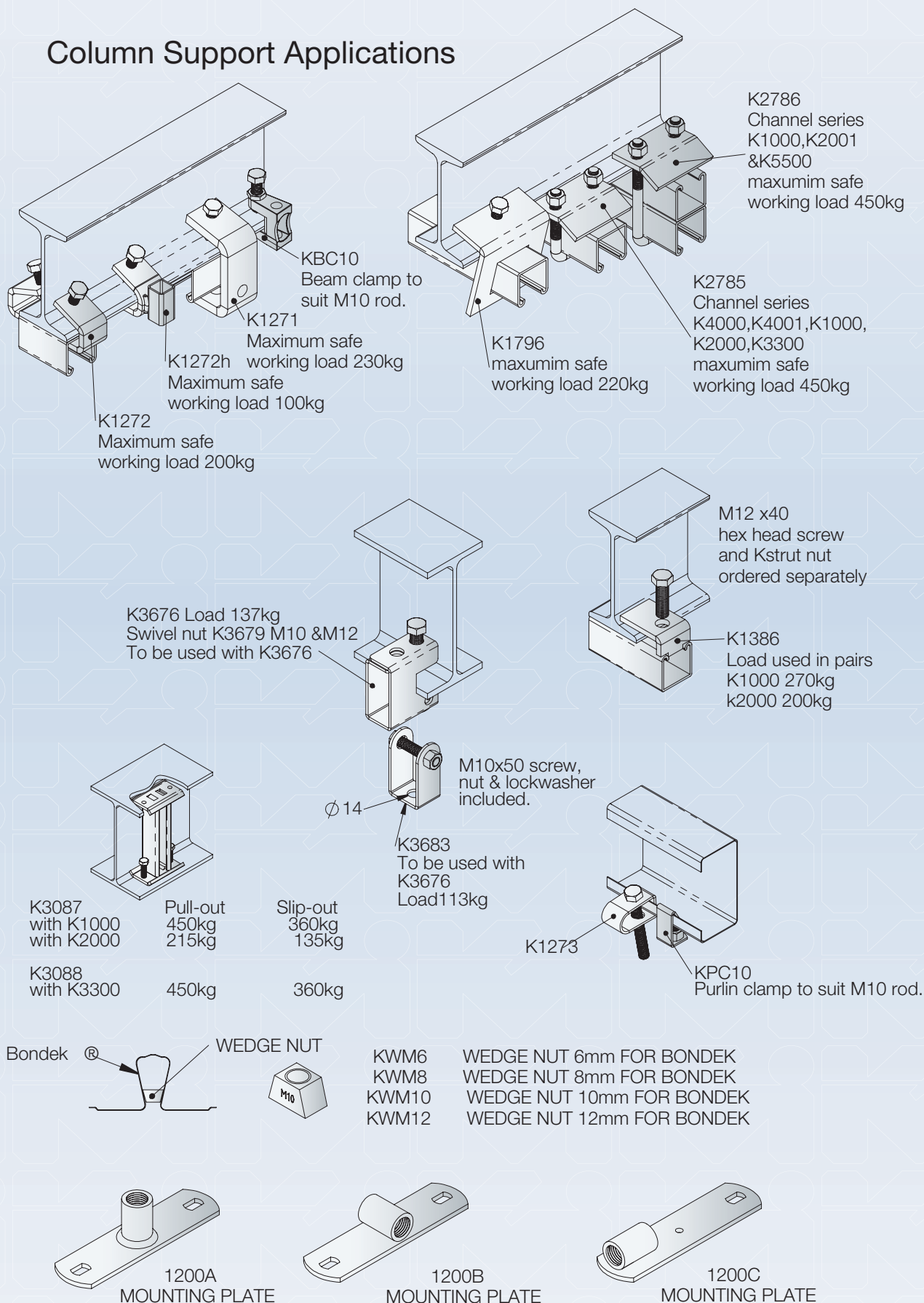


E. & O.E.



K-STRUT FITTINGS

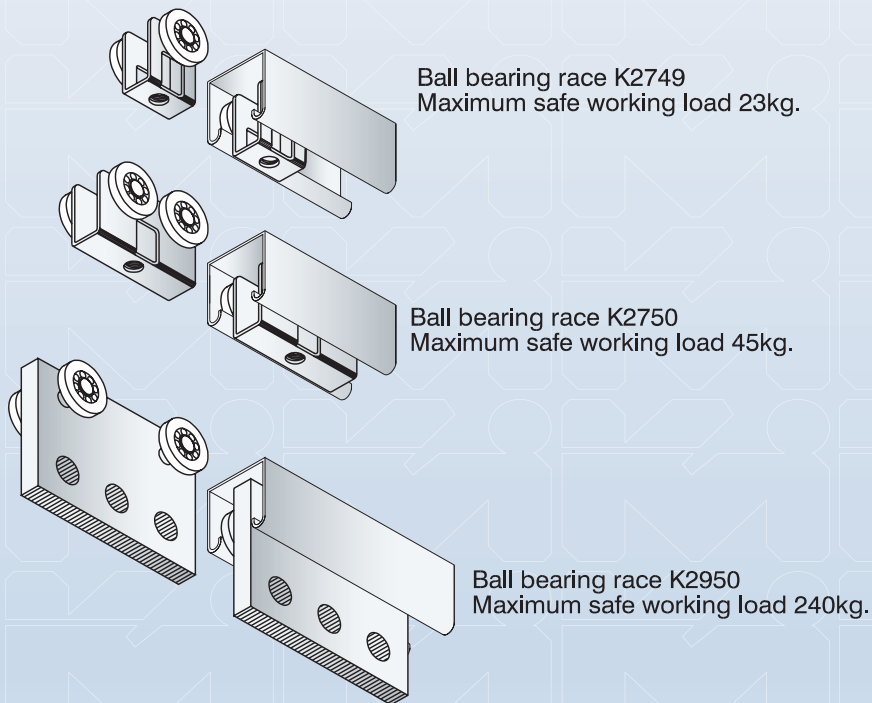
Column Support Applications



E. & O.E.

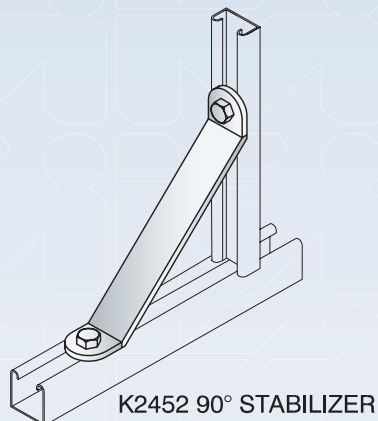
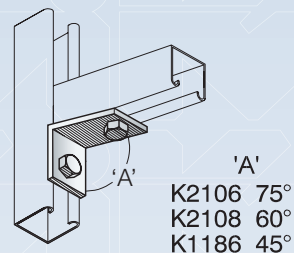
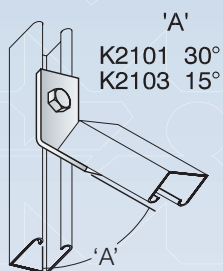
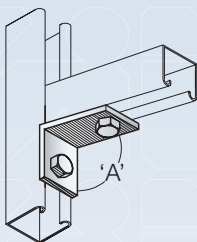
K-STRUT FITTINGS

Channel Carriages



Angle Fittings

'A'
K2095 165°
K2097 150°
K1546 135°



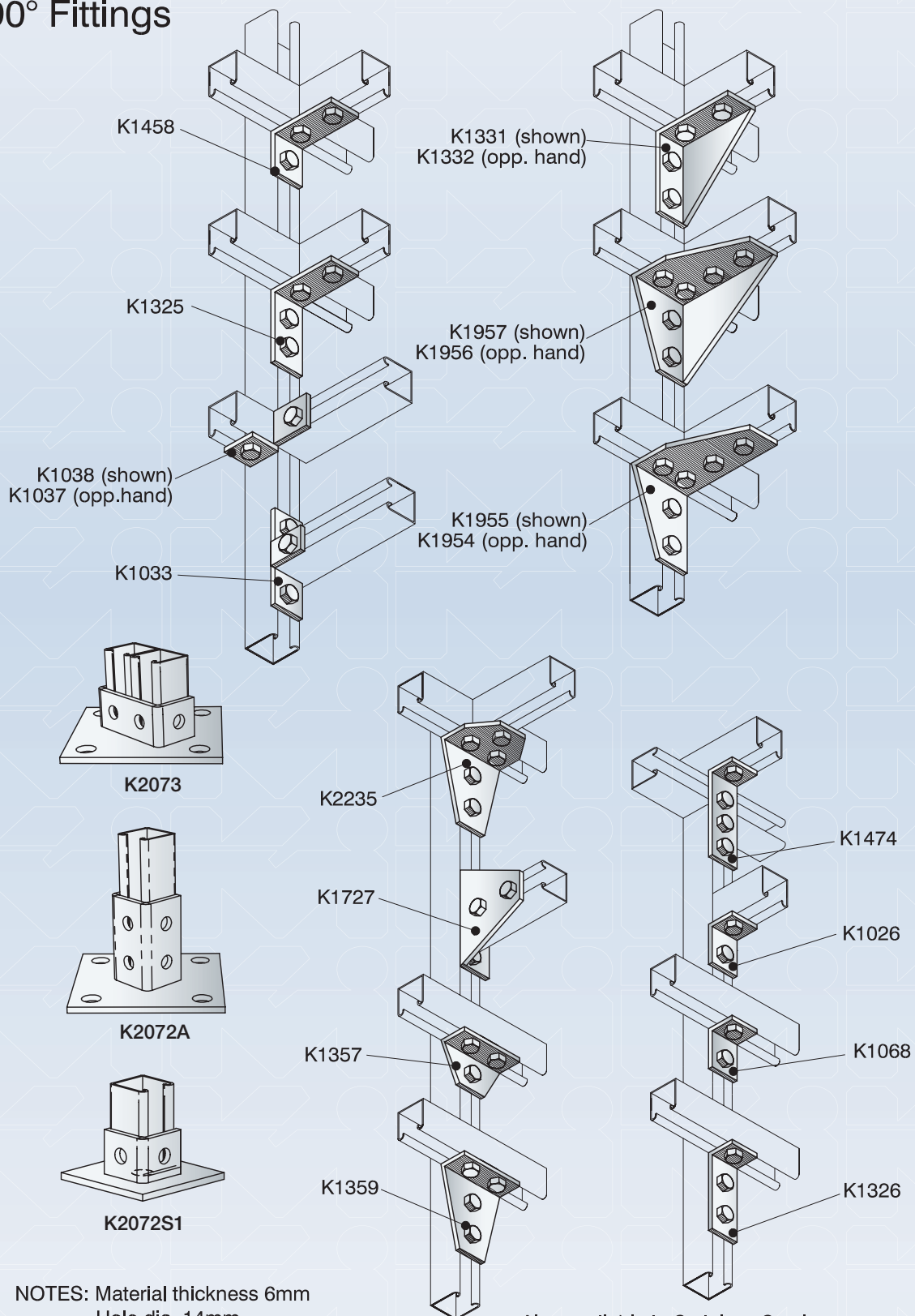
NOTES: Material thickness 6mm
Hole dia. 14mm
Channel nuts & bolts order
separately.

Also available in Stainless Steel on request.

E. & O.E.

K-STRUT FITTINGS

90° Fittings



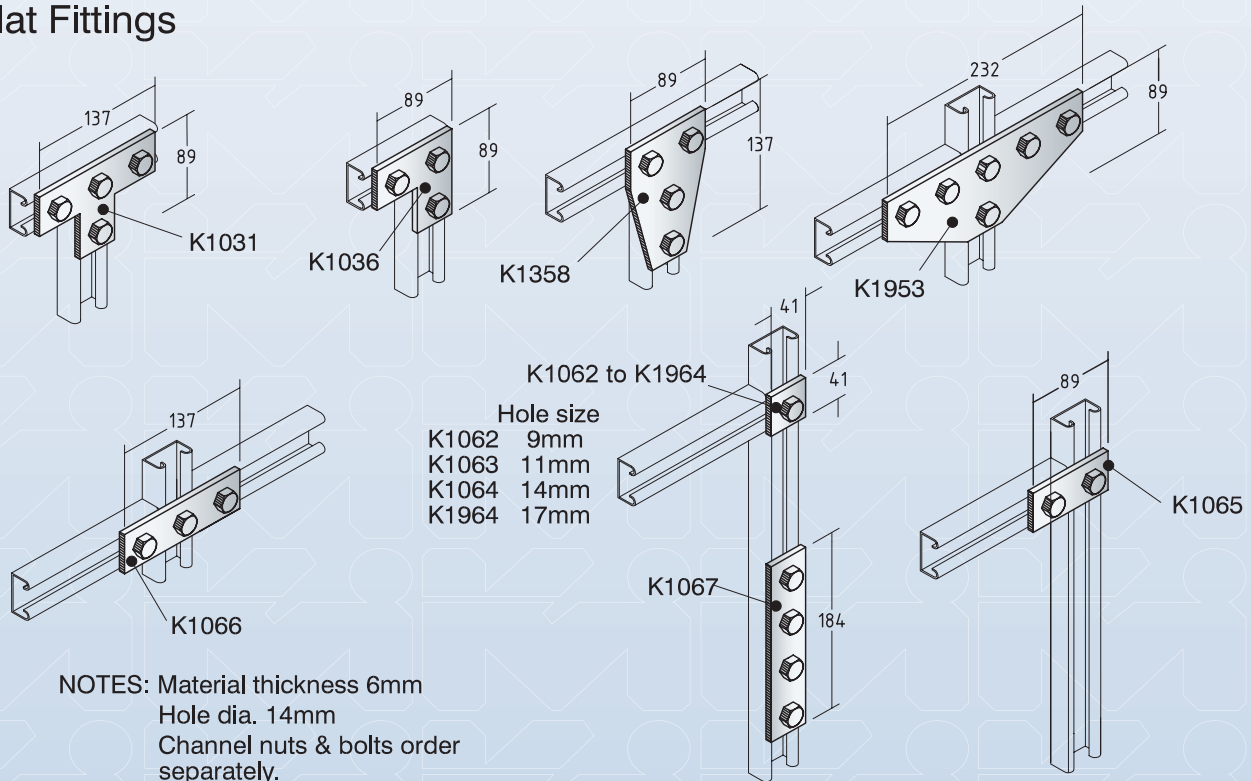
NOTES: Material thickness 6mm
Hole dia. 14mm
Channel nuts & bolts order separately.

Also available in Stainless Steel on request.

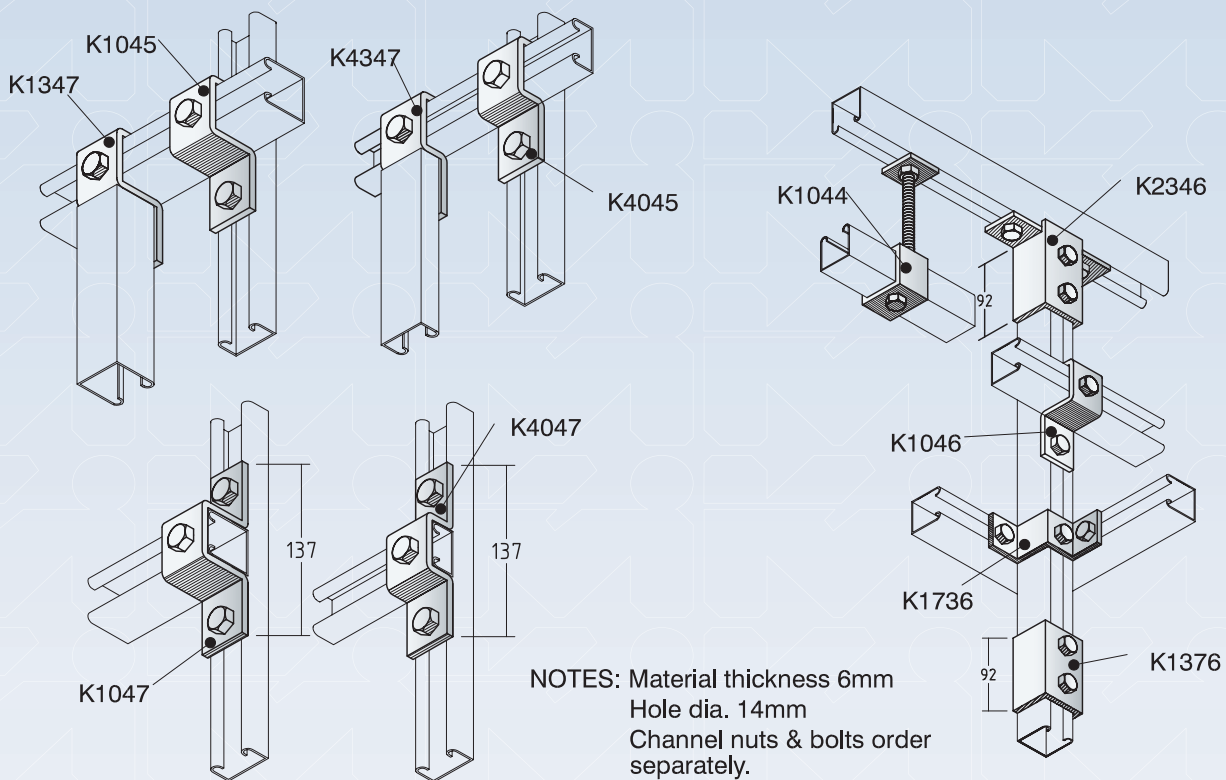
E. & O.E.

K-STRUT FITTINGS

Flat Fittings



"U" & "Z" Fittings

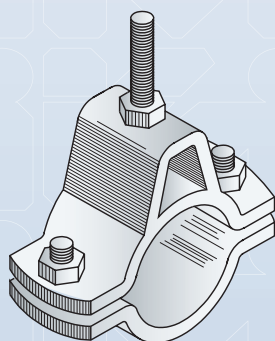


Also available in Stainless Steel on request.

E. & O.E.

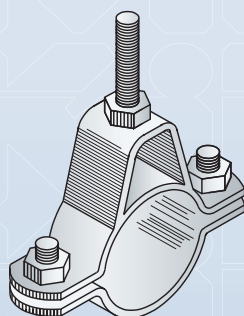
K-STRUT FITTINGS

Pipe Supports



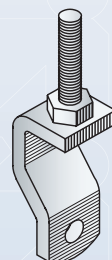
Series K814
MEDIUM DUTY
40mm x 5mm
FINISH HDG

	OUTSIDE DIAMETER
K814- 60	60mm
K814- 76	76mm
K814- 89	89mm
K814-102	102mm
K814-114	114mm
K814-127	127mm
K814-140	140mm
K814-152	152mm
K814-165	165mm
K814-178	178mm
K814-203	203mm
K814-216	216mm
K814-230	230mm



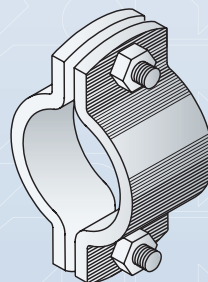
Series K813
LIGHT DUTY
25mm x 3mm
FINISH Z.P.

	OUTSIDE DIAMETER
K813- 19	19mm
K813- 27	27mm
K813- 32	32mm
K813- 34	34mm
K813- 38	38mm
K813- 43	43mm
K813- 48	48mm
K813- 51	51mm
K813- 60	60mm
K813- 64	64mm
K813- 76	76mm
K813- 89	89mm
K813-102	102mm
K813-114	114mm



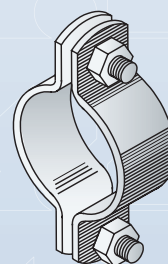
Threaded rod attachment
to be ordered separately
when required.

Use K991A with K990 series
Use K991B with K991 series



Series K991
MEDIUM DUTY
40mm x 5mm
FINISH HDG

	OUTSIDE DIAMETER
K991- 60	60mm
K991- 76	76mm
K991- 89	89mm
K991-102	102mm
K991-114	114mm
K991-123	123mm
K991-127	127mm
K991-140	140mm
K991-152	152mm
K991-165	165mm
K991-178	178mm
K991-190	190mm
K991-203	203mm
K991-216	216mm
K991-230	230mm
K991-241	241mm
K991-254	254mm
K991-273	273mm
K991-305	305mm
K991-324	324mm



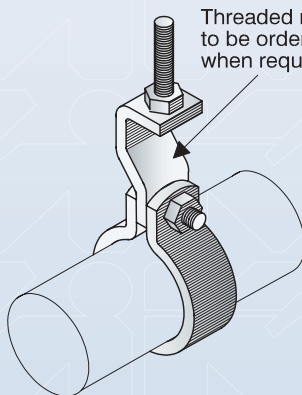
Series K990
LIGHT DUTY
25mm x 3mm
FINISH Z.P.

	OUTSIDE DIAMETER
K990- 12	12mm
K990- 19	19mm
K990- 25	25mm
K990- 27	27mm
K990- 32	32mm
K990- 34	34mm
K990- 38	38mm
K990- 43	43mm
K990- 48	48mm
K990- 51	51mm
K990- 60	60mm
K990- 64	64mm
K990- 76	76mm
K990- 89	89mm
K990-102	102mm
K990-114	114mm
K990-127	127mm
K990-140	140mm
K990-152	152mm
K990-165	165mm

E. & O.E.

K-STRUT FITTINGS

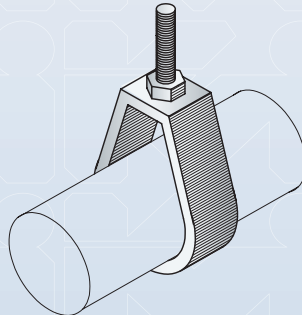
Pipe Supports



Threaded rod attachment
to be ordered separately
when required.

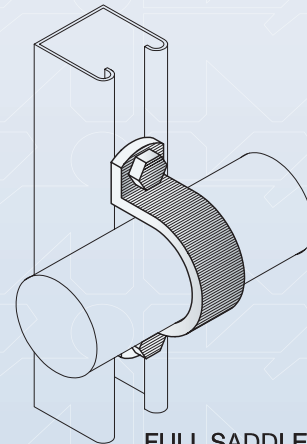
LIGHT DUTY
Series K712
FINISH Z.P.

	OUT. DIA.
K712- 12	12mm
K712- 19	19mm
K712- 25	25mm
K712- 32	32mm
K712- 38	38mm
K712- 43	43mm
K712- 48	48mm
K712- 51	51mm
K712- 60	60mm
K712- 64	64mm
K712- 76	76mm
K712- 89	89mm
K712-102	102mm
K712-114	114mm
K712-152	152mm
K712-165	165mm



PEAR SHAPED
Series K714
FINISH Z.P.

	OUT. DIA.
K714- 12	12mm
K714- 19	19mm
K714- 25	25mm
K714- 32	32mm
K714- 38	38mm
K714- 51	51mm
K714- 64	64mm
K714- 76	76mm
K714- 89	89mm
K714-102	102mm
K714-114	114mm
K714-127	127mm
K714-140	140mm
K714-152	152mm
K714-165	165mm
K714-203	203mm
K714-241	241mm



FULL SADDLES

SERIES K2558

40mm wide x 6mm thick
Finish H.D.G.

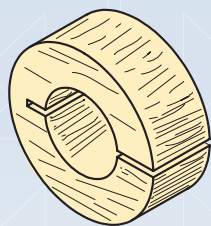
	OUT. DIA.
K2558- 76	76mm
K2558- 89	89mm
K2558-102	102mm
K2558-114	114mm
K2558-123	123mm
K2558-140	140mm
K2558-152	152mm
K2558-165	165mm
K2558-203	203mm
K2558-220	220mm
K2558-241	241mm
K2558-262	262mm
K2558-324	324mm

SERIES K2557

25mm wide x 3mm thick
Finish Zinc Plated.

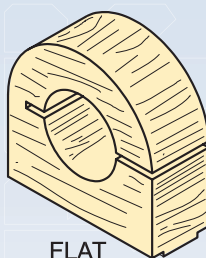
	OUT. DIA.
K2557-21	21mm
K2557-27	27mm
K2557-34	34mm
K2557-43	43mm
K2557-48	48mm
K2557-60	60mm
K2557-65	65mm

Wooden Blocks



ROUND

Wooden blocks
Material - plywood
(also available in cork)
40mm standard thickness

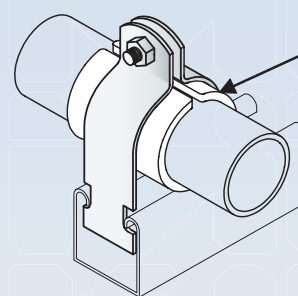


FLAT

ROUND
INT. & EXT DIAMETER

KWR1264	12 X 64	KWR51102	51 X 102
KWR1676	16 X 76	KWR64114	64 X 114
KWR1971	19 X 71	KWR76127	76 X 127
KWR1976	19 X 76	KWR89140	89 X 140
KWR2576	25 X 76	KWR102152	102 X 152
KWR3183	31 X 83	KWR114165	114 X 165
KWR3289	32 X 89	KWR127178	127 X 178
KWR3889	38 X 89	KWR152203	152 X 203

Insulation Barriers



K2600
P.V.C. Insulating barrier
supplied in 20m. rolls.

ALSO AVAILABLE

White 'SUPACUSHION'
in 5m rolls.

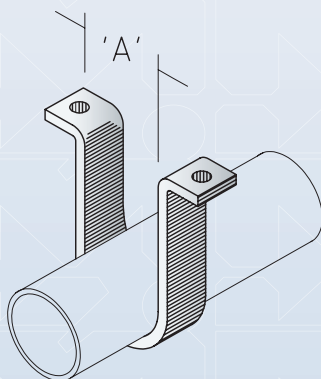
FLAT
INT. & EXT DIAMETER

KWF1264	12 X 64	KWF64114	64 X 114
KWF1676	16 X 76	KWF76127	76 X 127
KWF1971	19 X 71	KWF89140	89 X 140
KWF2576	25 X 76	KWF102152	102 X 152
KWF3283	32 X 83	KWF114165	114 X 165
KWF3889	38 X 89	KWF127178	127 X 178
KWF51102	51 X 102	KWF152203	152 X 203

We also provide custom sizes made to order.

E. & O.E.

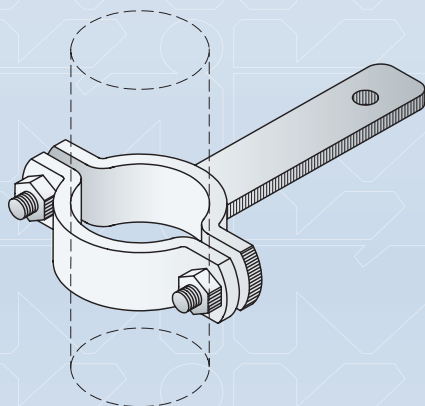
K-STRUT FITTINGS



Deep Saddles

Pipe Outside
Diameter 'A' mm

K2556 - 34
K2556 - 43
K2556 - 48
K2556 - 60

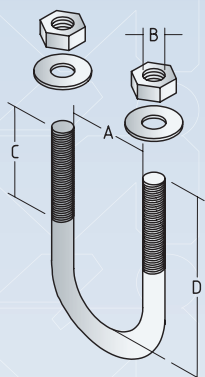


Stand Off Brackets

Pipe Outside
Diameter in mm

K700 - 21
K700 - 27
K700 - 34
K700 - 43
K700 - 48
K700 - 60
K700 - 76
K700 - 89
K700 - 114
K700 - 140
K700 - 165

NOTES: Material thickness 6mm
Hole dia. 14mm
Channel nuts & bolts order
separately.

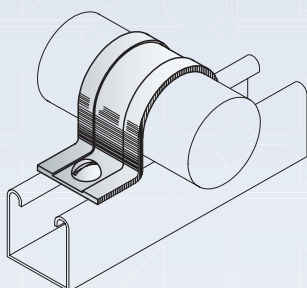


'U' Bolts

Complete with nuts & washers

CODE
A = Pipe Diameter
B = Bolt Diameter
C = Thread Length
D = Internal Depth

	A	B	C	D
K2559 - 34	10	50	85	
K2559 - 43	10	50	93	
K2559 - 48	10	50	100	
K2559 - 60	10	50	110	
K2559 - 76	12	50	127	
K2559 - 89	12	50	140	
K2559 - 102	12	50	152	
K2559 - 114	12	50	165	



Single Pipe Clamp

SERIES K2071
Pipe Outside Diameter

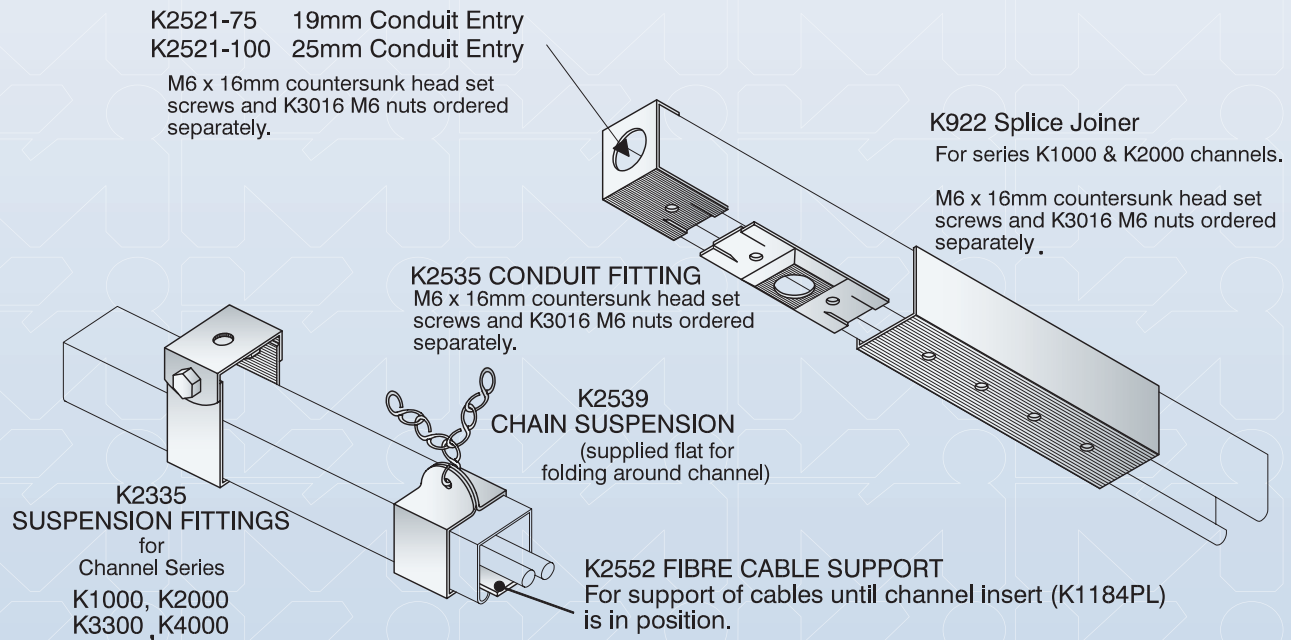
K2071 - 19 19mm
K2071 - 25 25mm
K2071 - 32 32mm
K2071 - 38 38mm
K2071 - 44 44mm
K2071 - 48 48mm

Screw & K3016 nut included

E. & O.E.

K-STRUT FITTINGS

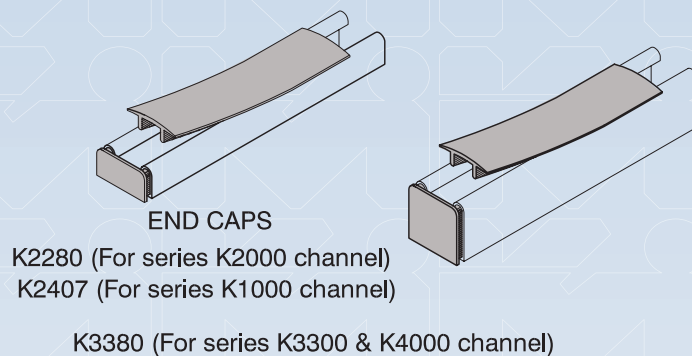
Lighting Supports and Accessories



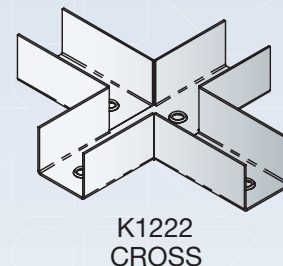
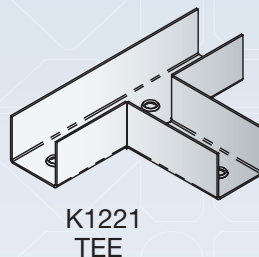
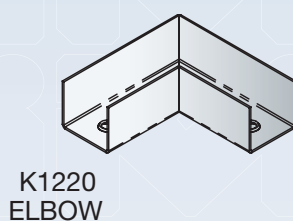
General Accessories

CHANNEL INSERTS K1184-PL (PVC)

Available in P.V.C. extrusions in 3 metre long stock lengths to fit all channel series. These inserts provide an effective seal for the channel. The stock colour for P.V.C. inserts is grey. Other colours can be manufactured to order.



Joiner Boxes



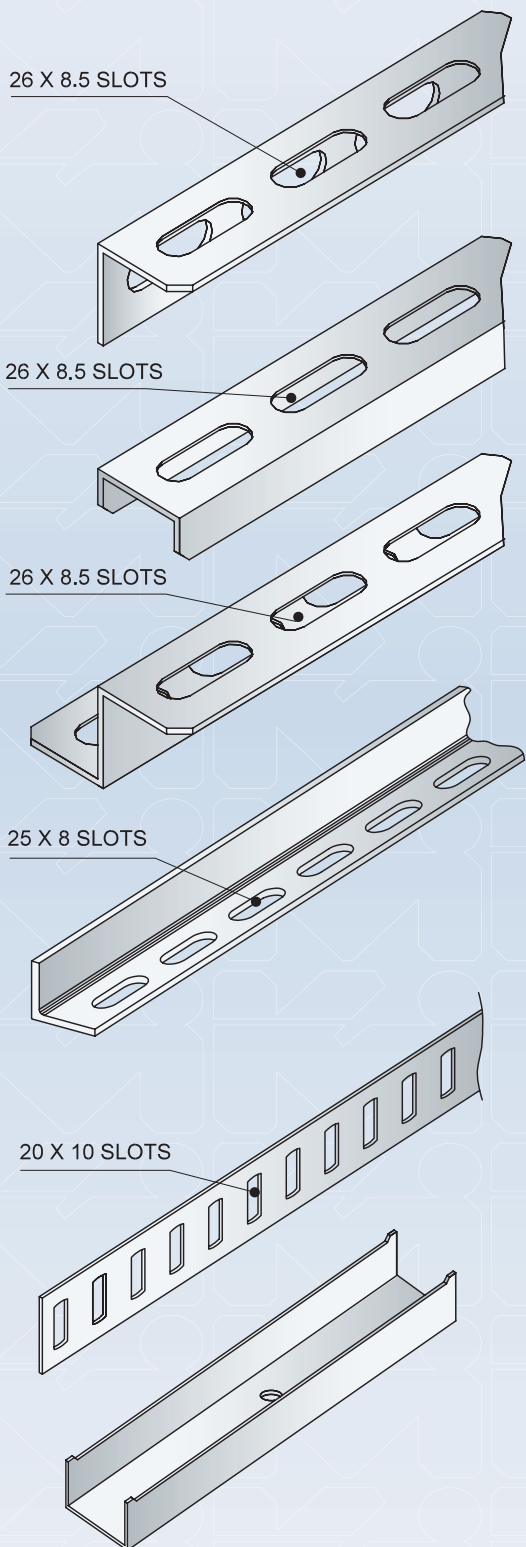
Fixes to strut by screws and self locating nut. K3016 nuts and M6x16 countersunk screws should be ordered separately.

Also available in Stainless Steel on request.

E. & O.E.

K-STRUT FITTINGS

Support Hangers



KSA25 25 X 25 X 1.6mm Slotted angle
Material: Plain Galvanised Iron
Other finishes available on request
Length = 2.4m

KSC25 25 X 12 X 1.6mm Slotted channel
Material: Plain Galvanised Iron
Other finishes available on request
Length = 2.4m

KSZ25 25 X 25 X 1.6mm Slotted Z bar
Material: Plain Galvanised Iron
Other finishes available on request
Length = 2.4m

KSA38 38 X 38 X 3.0mm Slotted angle
Standard Finish - Zinc Plated
Other finishes available on request
Length = 3.0m

KSA50 Also available - 50 x 50 x 3 angle x 3.0m long.

KSA40 40 X 40 X 5mm Slotted Angle
Hot Dip Galvanised
Length = 3.75m

KSF40 40 X 5mm Slotted Flat
Hot Dip Galvanised
Length = 3.0m

K1025 34 X 2.0mm Slotted Strip
10 x 20 slots @ 20mm centers
Standard Finish - Galvabond
Other finishes available on request
Length = 2.4m

Light Duty Tray Hangers

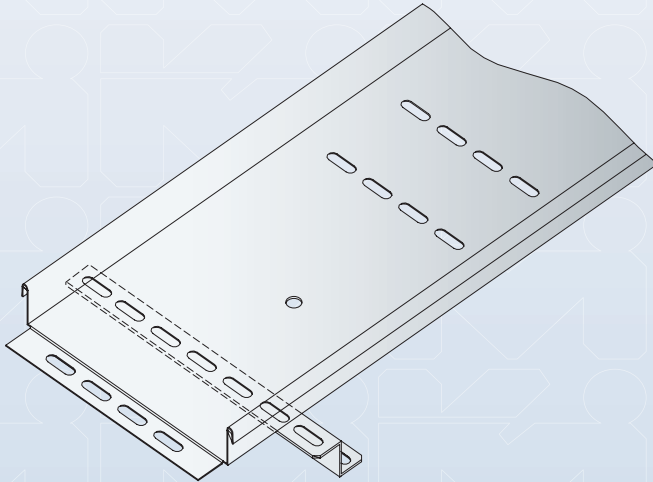
Material: 1.2mm Galvabond

KTH75	- To suit 75 wide tray
KTH100	- To suit 100 wide tray
KTH150	- To suit 150 wide tray
KTH230	- To suit 230 wide tray
KTH300	- To suit 300 wide tray
KTH450	- To suit 450 wide tray
KTH600	- To suit 600 wide tray

Also available in Stainless Steel on request.

E. & O.E.

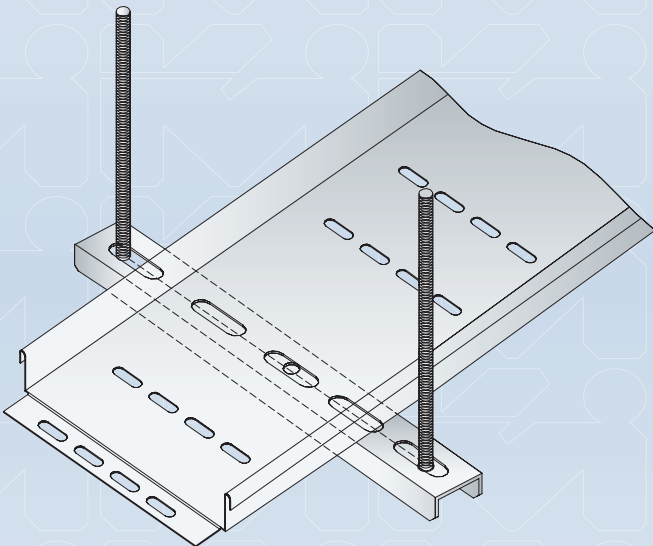
TYPICAL SUPPORT APPLICATIONS



Standard 'Z' Bar Mounting

This type of mounting is suitable for creating a fixing that gives a stand off from a surface. The space provided behind the tray by the bracket is 25mm and this gives adequate space for cable ties.

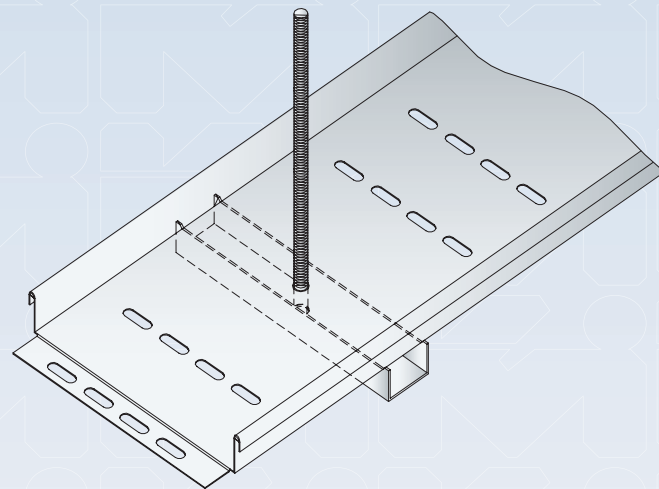
The bracket is supplied in a standard 2.4m length and can be site cut to suit the required tray width. The sizes of the prepunched holes suit the cable tray punchings.



Standard Channel Mounting

This type of mounting is suitable for making a trapeze type hanger bracket. The prepunched holes are suitable for threaded rod up to M8 diameter.

The bracket is supplied in a standard 2.4m length and can be site cut to the required tray width. The prepunched holes are sized to suit the cable tray punchings.



Standard Central Mounting

This type of mounting is suitable for making a central hanger bracket using only one drop rod for support. The bracket utilises the prepunched holes in the cable tray and forms a support channel under the tray. The channel has a flare out on each end so that the cable tray sits and positively locates on the bracket.

The benefits of this type of bracket are in the reduction of installation and material costs.

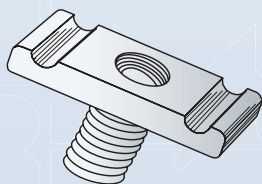
Kounis Metal Industries can also supply your fastenings, purlin clips and brackets if required.

Also available in Stainless Steel on request.

E. & O.E.

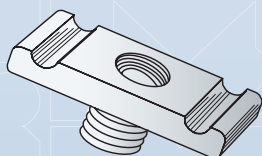
K-STRUT FITTINGS

Channel Nuts



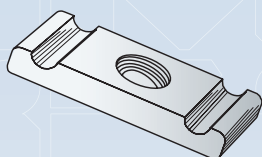
For K1000 Channel

Item	Metric
K1006	6mm
K1007	8mm
K1008	10mm
K1010	12mm
K1012	16mm



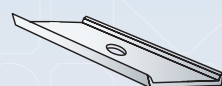
For K1000 and K3300 Channel

Item	Metric
K4006	6mm
K4007	8mm
K4008	10mm
K4010	12mm



For K1000 and K3300 Channel

Item	Metric
K3006	6mm
K3007	8mm
K3008	10mm
K3010	12mm
K3012	16mm



For K1000 and K3300 Channel

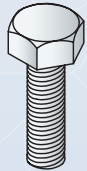
Item	Metric
K3016	6mm

NOTE: When ordering please quote Part number and size. e.g. K1010 = M12

E. & O.E.

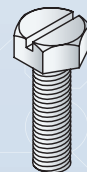
K-STRUT FITTINGS

Standard Screws



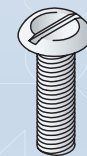
HHS0620	M6 x 20	HHS1040	M10 x 40
HHS0625	M6 x 25	HHS1224	M12 x 24
HHS0820	M8 x 20	HHS1230	M12 x 30
HHS0825	M8 x 25	HHS1240	M12 x 40
HHS0830	M8 x 30	HHS1260	M12 x 60
HHS1020	M10 x 20	HHS1640	M16 x 40
HHS1025	M10 x 25		
HHS1030	M10 x 30		

Hex Head Set Screws



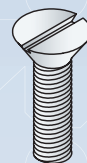
SHS0620	M6 x 20
SHS0825	M8 x 25
SHS0830	M8 x 30

Slotted Hex Head Set Screws



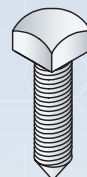
PHS0620	M6 x 20
PHS0625	M6 x 25
PHS0825	M8 x 25

Pan Head Screws



CK0616	M6 x 16
CK0820	M8 x 20
CK1020	M10 x 20

Countersunk Head Screws



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

Cone Point Set Screws



KNMH6538
NYLON ANCHOR MUSH HEAD
6.5mm X 38mm

DIM6
DIM8
DIM10
DIM12

ANCHOR/DROP-IN M6X25mm
ANCHOR/DROP-IN M8X30mm
ANCHOR/DROP-IN M10X40mm
ANCHOR/DROP-IN M12X50mm



Standard Nuts & Washers



HN06	M6
HN08	M8
HN10	M10
HN12	M12

Hexagon Nuts



FW06	M6
FW08	M8
FW10	M10
FW12	M12

Flat Washers



K367906	M6
K367908	M8
K367910	M10
K367912	M12

K3679 M10 & M12
To be used with
K3676

Swivel Nut



SW06	M6
SW08	M8
SW10	M10
SW12	M12

Spring Washers



LW06	M6
LW08	M8
LW10	M10
LW12	M12

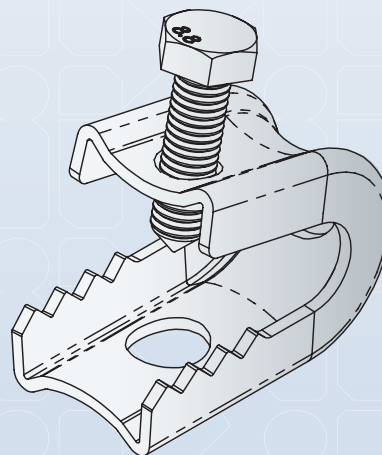
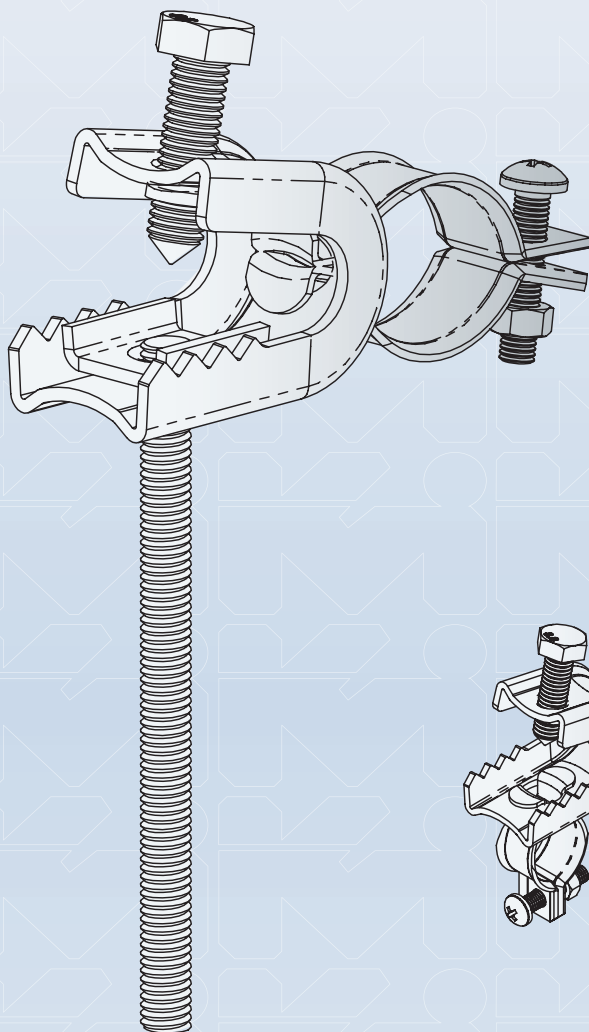
Shakeproof Lock Washers



DB0840	DYNA BOLT HEX HEAD 8mm X 40mm
DB1040	DYNA BOLT HEX HEAD 10mm X 40mm
DB1050	DYNA BOLT HEX HEAD 10mm X 50mm
DB1075	DYNA BOLT HEX HEAD 10mm X 75mm
DB1260	DYNA BOLT HEX HEAD 12mm X 60mm
DB12100	DYNA BOLT HEX HEAD 12mm X 100mm

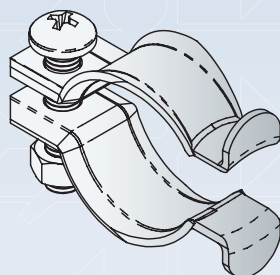
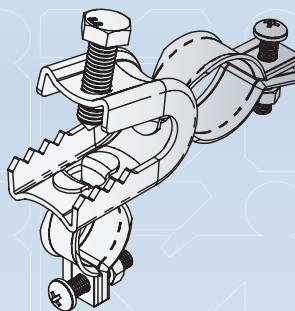


KOUNIS BEAM CLAMPS



KCC-17

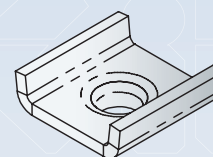
KCC-36



KAC-19

KAC-25

KAC-31



KRC-06

KRC-08

KRC-10

E. & O.E.