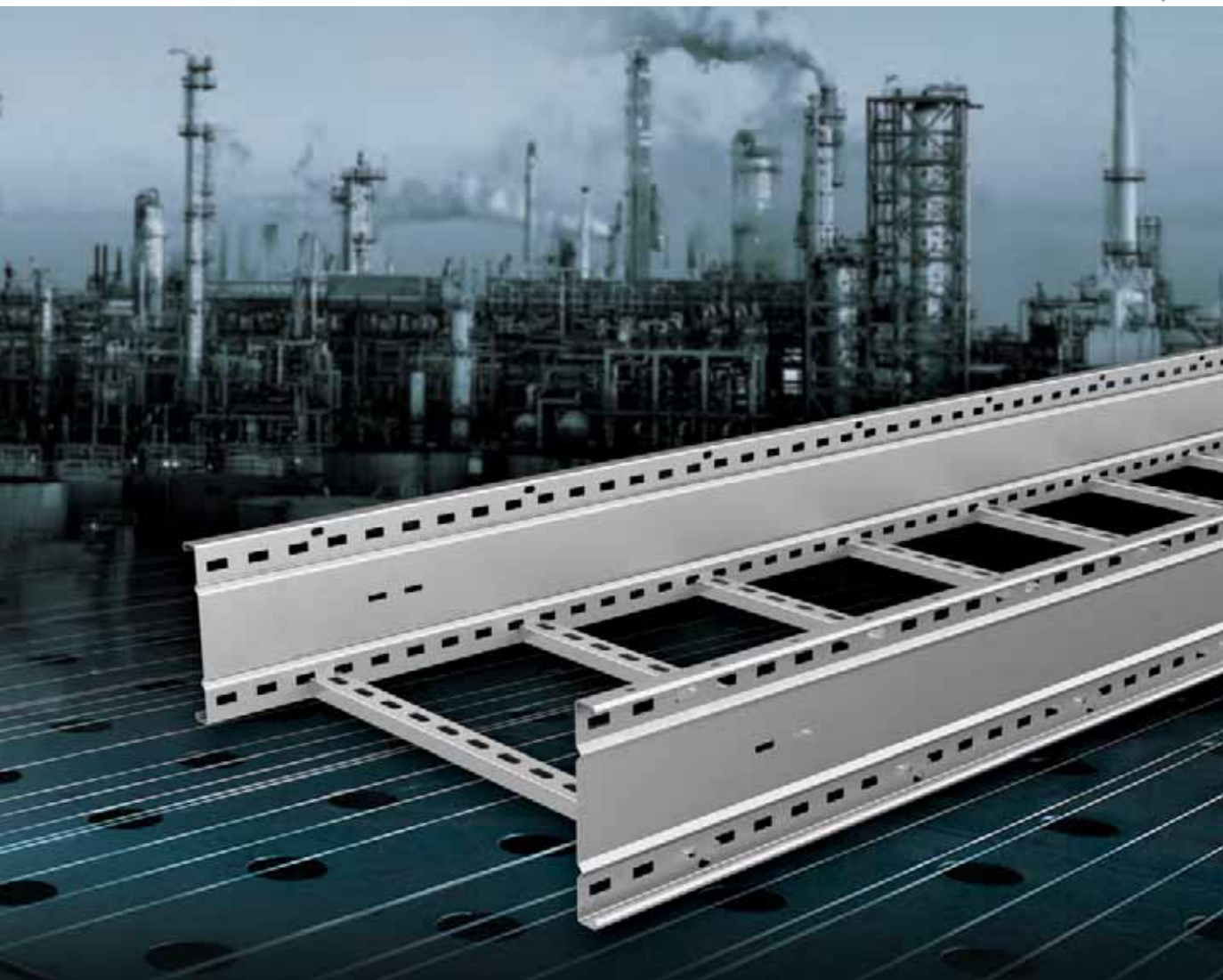




E-LINEKCA OG

Industrial Cable Ladder System



E-LINEKCA OG



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►► E-LINE KCA OG

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OVER 40 YEARS

Expertise in Cable Support System

Production:

12.000.000 mt Tray / YEAR

1.500.000 mt Ladder / YEAR

66.000 tones / YEAR Steel Process Capacity

CAPABLE

Reliable support systems are vital to any electrical installation. EAE is an innovative designer and manufacturer of modern, leading-edge support systems that suit multiple industries.

RANGE

The EAE range consists of over 6000 products that are suited to so many sectors, that they have been used for many iconic projects.

As well as this, EAE offers specialist systems designed for when specific standard compliance is required; as well as in-house engineers capable of producing customised products to address any unique requirements that your project may have.

PROJECT MANAGEMENT

We can offer you a dedicated Project Manager as a single point of contact, and who will manage design, conformance, manufacturing and distribution of your products.

DISTRIBUTION & SUPPLY

Wherever it is around the world, EAE can manage all the logistical needs of any size project, including export packaging and documentation.

100 KCAOG

125 KCAOG

ELINE
KCAOG



HIGH PERFORMANCE

CABLE LADDER KCA OG

Selected for YAMAL LNG Project

-70 °C
CERTIFIED



200 **KCAOG**



150 **KCAOG**

E-Line KCA OG has a reputation for setting the industry standard for cable support systems across all around world. E-Line KCA OG has a unique combination of high strength, resilience, and lightweight design.

E-Line KCA OG Cable Ladder range is engineered for the ultimate load bearing strength in its class, high resistance to impact and environmental forces, while also achieving all weight reductions possible. The structural design maximises the capabilities of the steel. Project Engineers for large offshore, modular, marine and other projects now have a cable support solution that can give them the strength they need over long spans, while also meeting project weight requirements.

IEC 61537 is a standard for cable management which provides test methods and a classification regime for cable ladders. E-Line KCA OG is tested in accordance with this standard for load capability, electrical continuity and impact resistance.

DEKRA witnessed these tests and checked our quality systems to ensure we manufacture these ladders consistently, to the tested specifications, before awarding certification. For installation, splicing and fitting design and recommendations, contact EAE. All raw materials are tested to relevant standards for your project. EAE maintains ISO 9001 (Quality) as well as ISO 14001 (Environmental) compliance.

MAXIMUM CABLE SUPPORT CAPACITY

200 KCA OG 1100 = Height: 200mm/Width:1100mm/Freespace:0,1969m²

100 KCAOG

125 KCAOG

HIGH TEMPERATURE WORKING



Accordence with DIN 4102-12 (E90)
Tested at 1000 C for 90 minutes

A product with the right properties fit for purpose will meet the high demands on performance, reliability and cost-efficiency. That is why a thorough analysis of the environment in terms of corrosion, pollution, humidity and salt is critical before deciding on type of material and surface treatment. Whether you need Cable Support System, dry indoor applications or the harshest offshore enviroments, EAE can find the best solution for you...

200 KCAOG

150 KCAOG



EAE Elektrik A.Ş., the original company of the EAE Group, was established in 1973 EAE Elektrik A.S products include:

- Busbar Power Distribution Systems,
- Lighting Busbar Systems,
- Cable Tray Systems,
- Underfloor Trunking,
- Trolley Busbar System



EAE Elektrik A.Ş. has 4 factories in İstanbul where the company headquarter is also situated, additionally 1 factory in Kocaeli and 1 factory in Alexandrov, Russia. Three of the EAE Factories manufacture Cable Support Systems using cutting-edge technology for domestic and foreign markets.

Having a widespread branch and authorised dealer network in Turkey. EAE Elektrik also exports its products to more than 65 countries whom products are used in industrial facilities, the textile industry, business centres, the automotive industry, malls, high-rise buildings, factories and offices, etc.

EAE is a leader and pioneer of the cable management system market with it's high quality, innovative and proven products. Over 40 years experienced EAE has continuously invested global strategic locations with high technologic facilities . High quality raw meterials are supplied and processed in automationed production lines to ensure high product quality and consistency of deliveries. In 2015, EAE includes 40 000 m² manufacturing and warehousing facility in Kocaeli, Turkey which was planned and designed according to satisfy majo industrial projects needs.

For perfect match with the needs of Oil&Gas, Power Generation and Heavy Industry Projects, EAE has developed "KCA OG" Cable Ladder System in addition to E-Line Cable Support Systems which contains; Perforated Cable Trays, Ladders, Trunking, Wire Mesh, Binrak Strut and large range of Support Solutions. For the specific needs of major project, EAE can be performed to satisfy the customer with technical experienced Sales Support Team.

26.000 m² (Istanbul/Turkey)



13.500 m² Alexandrov/Russia



EAE Cable Support System Manufacturing Facilities

Over 40 years experienced EAE Cable Support System Department is proud to be presenting new Industrial Cable Ladder Serie “KCA OG”.

With the participation of the new KCA OG, EAE can supply all ranges of demands.

Cable Ladder Series:

- KM : Light Duty Cable Ladder
- KC : Heavy Duty Cable Ladder
- **KCA OG : Extra Heavy Duty Cable Ladder**

KCA OG is designed to satisfy highly performance of all Industrial Market.

► Stainless Steel Finishes:

For the off-shore applications, KCA OG can be manufactured with Stainless Steel (316L) which can supply high performance against the corrosive effect of salt water combined with very changeable weather conditions.

► High Load Performance:

For the long span applications, KCA OG can be manufactured in 6000 mm standard length. Form of latitude lines on the siderails help KCA OG to upgrade loading capacity.

► Integral Joints on Fittings:

The installation time can be reduced by the innovative design of the KCA OG fitting which has integral joints.

► Largest Capacity:

H: 200mm serie cable ladder supplies largest cable capacity and air flow features.

Oil&Gas Industry



Power Generation Industry



Petrochemical Industry





YAMAL LNG-RUSSIA



YENI ELEKTRİK 865MW CCPP-TURKEY



SOCAR STAR REFINERY - TURKEY



MARY AMONIUM & UREA PLANT

REFERENCES

| | |
|---------------------------------------|-------------------|
| Baku Flame Towers | Azerbaijan |
| Baku Triumph Towers | Azerbaijan |
| Port Baku Residences | Azerbaijan |
| Baku Waste To Energy | Azerbaijan |
| Socartower | Azerbaijan |
| Sofaz Tower | Baku - Azerbaijan |
| Baku Shipyard Project | Baku - Azerbaijan |
| Hilton Otel | Baku - Azerbaijan |
| Al Tahady Uni. - All Faculties | Libya |
| Veterinery Fac. Al Fateh Uni. | Libya |
| Mathematic Fac. Al Fateh Uni. | Libya |
| Bab Trablus Shopping Mall And Complex | Libya |
| Ruby Shooping Mall | Kazakistan |
| Zorlu Center Shopping Mall | Turkey |
| Optimum K.maras Shopping Mall | Turkey |
| Vialand Avm Shopping Mall | Turkey |
| Eroğlu Merter Shopping Mall | Turkey |
| Koru Florya Shopping Mall | Turkey |
| Mall Of Istanbul – Torunlar | Turkey |
| Marmarapark Shopping Mall Ece Group | Turkey |
| Eroğlu Merter Shopping Mall | Turkey |
| Florya Akvaryum Shopping Mall | Turkey |
| Antalya Erasta Park Avm – Torunlar | Turkey |
| Istwest | Turkey |
| Buyaka Shopping Mall | Turkey |
| Akbatı Shopping Mall | Turkey |
| Olimpa Shopping Mall | Turkey |
| Airport Shopping Mall | Turkey |
| Zonguldak Eren Termic Power Plant | Turkey |

| | |
|---|--------------|
| Serdivan Shopping Mall | Turkey |
| Triumph Towers | Turkey |
| Hunplus Project | Turkey |
| Anthill Bomonti Project | Turkey |
| Kuyumcu Kent Extanion Part | Turkey |
| Perlavista Shopping Mall | Turkey |
| Nish Istanbul Office Blocks | Turkey |
| Holiday Inn Otel | Turkey |
| Atakoy Shopping Mall | Turkey |
| Dumankaya Vizyon | Turkey |
| Areva Adh2 New Transformer Plant | Turkey |
| Sapphire Project | Turkey |
| Mashattan Residance Project | Turkey |
| Sabiha Gokcen Int. Airport | Turkey |
| Deeppe Shopping Mall | Turkey |
| Gordion Shopping Mall | Turkey |
| Marmara Forum Shooping Mall | Turkey |
| Ora Shooping Mall | Turkey |
| Btc Pipeline Pump Stations | Turkey |
| Tupraş Rup Project | Turkey |
| Skyport Tower | Turkey |
| 870 Mw Samsun Ccpp | Turkey |
| 865 Mw Yeni Elektrik A.S. Ccpp | Turkey |
| 755 Mw Denizliccpp | Turkey |
| Mary Amonium&Urea Plant | Turkmenistan |
| Onshore Gas Terminal | Turkmenistan |
| Turkmenbashi Int. Airport | Turkmenistan |
| Autoclaved Aerated Concrete Factory | Turkmenistan |
| South Yoleten Gas Field Development Pr. | Turkmenistan |

Example: 150 KCAOG 600 / L6 / Δ / 2/2

1 / 2 / 3 / 4 / 5 / 6

Height

100 : 100 mm
125 : 125 mm
150 : 150 mm
200 : 200 mm

Character

Ladder: KCA OG
Cover : KCA OGK

Width

150: 150 mm
200: 200 mm
300: 300 mm
450: 450 mm
600: 600 mm
750: 750 mm
900: 900 mm
1000: 1000 mm
1100: 1100 mm
Reduction: (Ws / Wp)

Radius

300: 300 mm
450: 450 mm
600: 600 mm
900: 900 mm

Thickness
Trung / Tsidreal

1.5/1.5
2/1.5
2/2
2/2.5
2.5/2.5

Finish

Hot Dip Galvanized 180: HDG
Silicon Rich Steel Sheet : DG
Stainless Steel (304&316L) : SS

Fitting Type

YD30-HOR.ELB. 30°
YD45-HOR.ELB. 45°
YD60-HOR.ELB. 60°
YD90-HOR.ELB. 90°

ID30-VER.INS. 30°
ID45-VER.INS. 45°
ID60-VER.INS. 60°
ID90-VER.INS. 90°

DD30-VER.OUT. 30°
DD45-VER.OUT. 45°
DD60-VER.OUT. 60°
DD90-VER.OUT. 90°

YT-HOR.TEE
AD-HOR.CROSS

MR-Middle Reduction
LR- Left Side Reduction
RR-Right Side Reduction

Length

L6: 6mt.
L3: 3mt.



SERIES CABLE LADDER

TEST CERTIFICATE

DEKRA

İnceleme No: ÜRS ENERJİ Akademi End. İnşaat San. ve Tic. A.Ş.
 Akademi Sokakı
 3719 Sok. No: 10
 Çarşıbaşı / Beşiktaş
 İstanbul / Türkiye

For the product: Cable ladder - steel and galvanized steel

Trade name: TUF

Typical Model: AKAOB EN 6 & 8

Reference: See for the product information the annex to the DEKRA Test Certificate

Manufactured by: Gök İnşaat Akademi End. İnşaat San. ve Tic. A.Ş.
 Akademi Sokakı 3719 S. sok.
 No:2 Beşiktaş/İstanbul/İstanbul
 Türkiye

Requirements: EN 61220-2009
 EN 61220-2009
 TS EN 61220-2007

Remarks: The product meets the requirements.

This Test Certificate is valid as of 20 March 2012 and expires upon withdrawal of one of the above mentioned standards or after changing the construction, materials or production method.

This Test Certificate is granted on request of an examination by DEKRA, the results of which are set forth in a certificate No. 2196712-0.

The examination has been carried out on one single specimen of the product, submitted by the manufacturer. The certificate does not include an assessment of the manufacturer's production consistency of the production with the specimen tested by DEKRA, it is not the responsibility of DEKRA.

Aachen, 22 March 2012 Number: 2196712-0

DEKRA Certification B.V.

[Signature]
 Dr. U. J. Zandbergen
 Managing Director

[Signature]
 Dr. M. B. Bepko
 Certification Manager

It is hereby confirmed that the certificate is genuine and correct.

**DEKRA Test Center B.V. | Hasekestr. 100 | 50854 H. Aachen | P.O. Box 119 260 010 | Germany. The Netherlands
 T +31 43 200 2000 | F +31 43 200 2005 | www.dekra.com | dekra@dekra.com | Registered in Germany 350890**

TEST CERTIFICATE

DEKRA

İnceleme No: GÖZ ENERJİ Akademi End. İnşaat San. ve Tic. A.Ş.
 Akademi Sokakı
 3719 Sok. No: 10
 Çarşıbaşı / Beşiktaş
 İstanbul / Türkiye

For the product: Steel cable ladder - steel

Trade name: GÜL

Typical Model: GÖZ AKAOB 200 - 200 AKAOB 1100

Reference: See for the product information and the class description in the annex to the DEKRA Test Certificate

Manufactured by: GÖZ ENERJİ Akademi End. İnşaat San. ve Tic. A.Ş.
 Akademi Sokakı 3719 S. sok.
 No:2 Beşiktaş/İstanbul/İstanbul
 Türkiye

Requirements: ENEMA EN 1207200A C22.2 No. 126 4-11

Remarks: The product meet the requirements.

This Test Certificate is valid as of 20 October 2012 and expires upon withdrawal of one of the above mentioned standards or after changing the construction, materials or production method.

This Test Certificate is granted on request of an examination by DEKRA, the results of which are set forth in a certificate No. 2278964-0.

The examination has been carried out on one single specimen of the product, submitted by the manufacturer. The certificate does not include an assessment of the manufacturer's production consistency of the production with the specimen tested by DEKRA, it is not the responsibility of DEKRA.

Aachen, 20 October 2012 Number: 2278964-0

DEKRA Certification B.V.

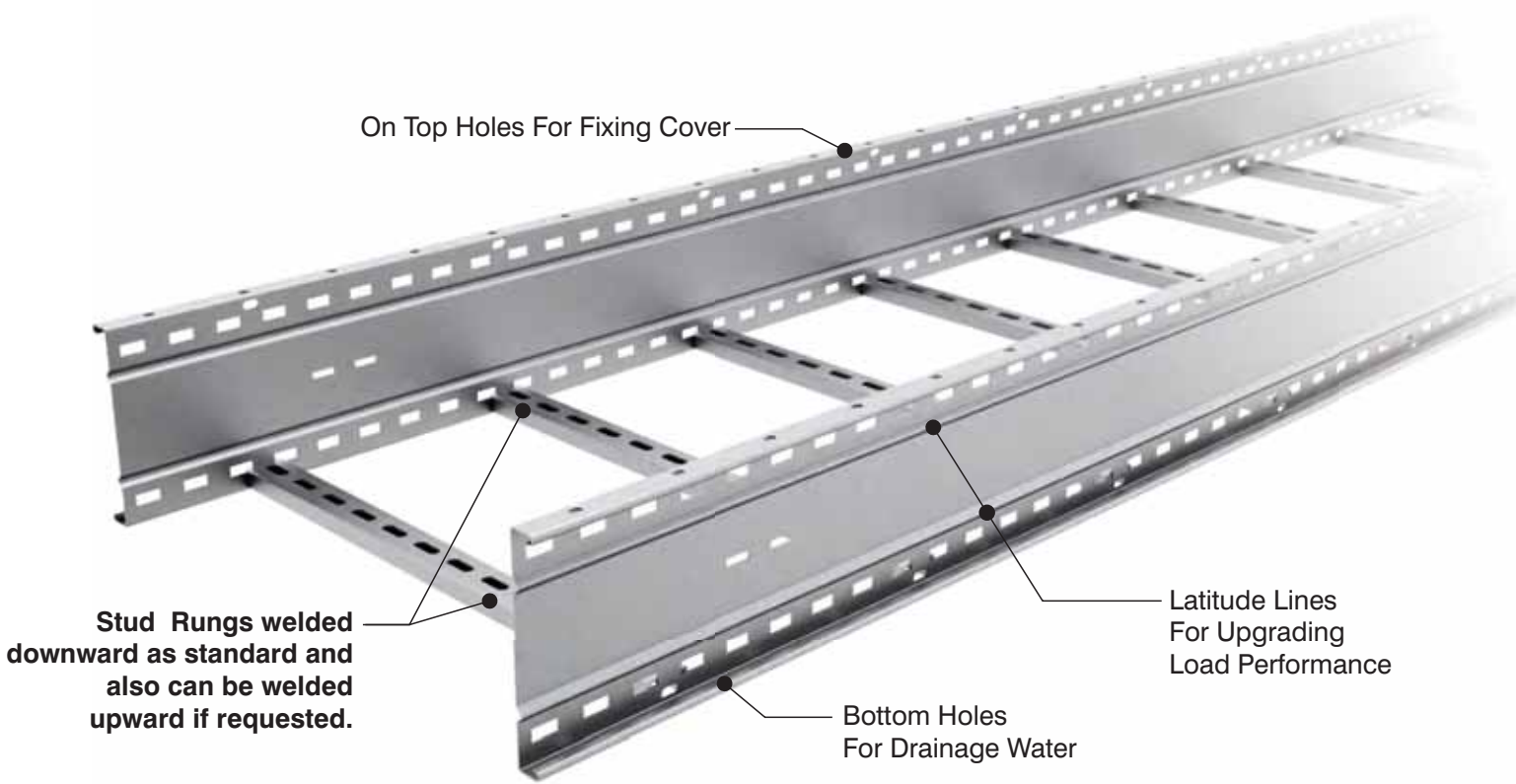
[Signature]
 Dr. U. J. Zandbergen
 Certification Manager

It is hereby confirmed that the certificate is genuine and correct.

**DEKRA Test Center B.V. | Hasekestr. 100 | 50854 H. Aachen | P.O. Box 119 260 010 | Germany. The Netherlands
 T +31 43 200 2000 | F +31 43 200 2005 | www.dekra.com | dekra@dekra.com | Registered in Germany 350890**



SERIES CABLE LADDER



Features of KCA OG :

Length : Standard in 3000 mm and 6000 mm
 Finishes : Hot Dip Galvanized (HDG) according to ISO EN 1461 | Silicon Rich Steel Sheet (DG) | Stainless Steel 316L (SS304 optional)

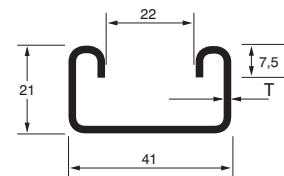
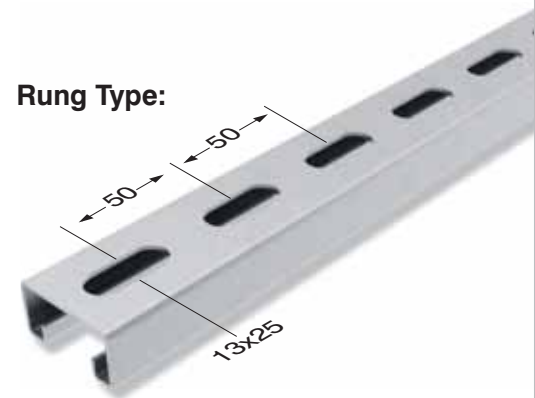
Side Rail

Height : 100 mm / 125 mm / 150 mm / 200 mm
 Thickness : 1.5 mm / 2.00 mm / 2.5 mm (optional)
 Latitude Line : Single (100 mm Height) / Double (125 mm / 150 mm / 200 mm)

Rung

Dimension : 41 (width) x 21 (Height) Strud Channel
 Spacing : 300 mm
 Width : 150 mm / 300 mm / 450 mm / 600 mm / 900 mm
 Optional Width : 200 mm / 750 mm / 1000 mm / 1100 mm
 Thickness : 1.5 mm / 2.00 mm / 2.50 mm (Optional)

Rung Type:



1,5 mm for up to 600 mm width ,
 2 mm for above width

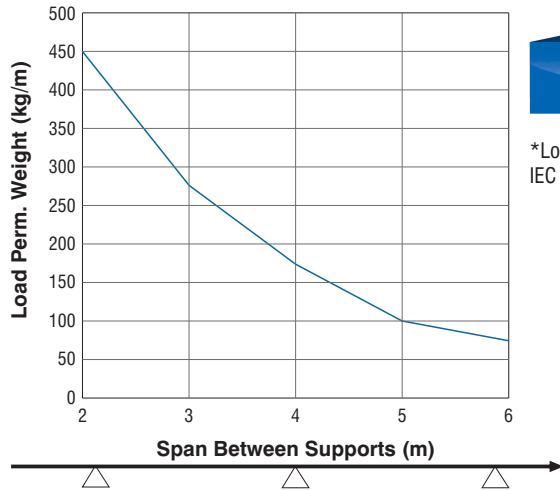


Standard Position

100 KCA OG 100 mm Height Cable Ladder / Length: 3000mm / 6000mm

The cable ladder is available in standard widths of 150mm, 200mm, 300mm, 450mm, 600mm, 750mm, 900mm and 1000mm although other widths up to 1100mm are available to order. Rung spacing is 300mm as standard.

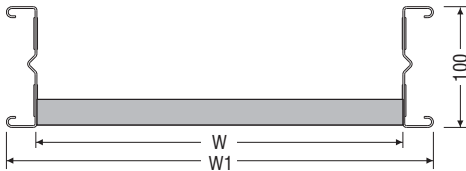
- Loading Depth: 78 mm
- Finishes & Materials: Hot Dipped Galvanized Mild Steel
- Hot Dipped Galvanized Corten A
- 316 L grade Stainless Steel (304 grade is available)



*Loading test performed according to IEC 61537 standard.



"Support distance for cable ladders should not exceed the length of cable ladder. Thus, OG cable ladder with L=3m should be supported 3m or less."



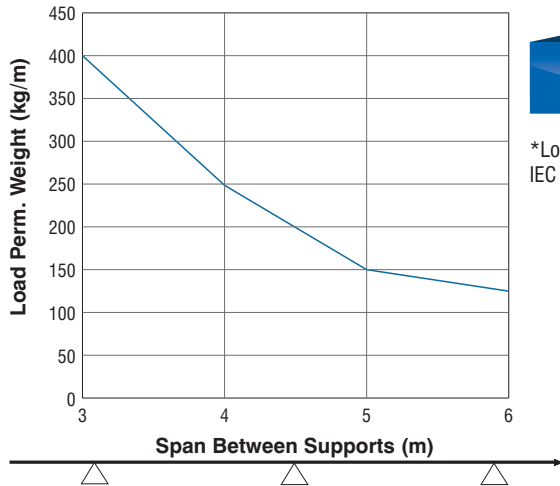
| Code | Description | No. of Rungs | Dimensions(mm) | | | | Weight (kg/mt) | Siderail (mm) | Rung (mm) |
|---------|---------------------------|--------------|----------------|------|-----------|-----|----------------|---------------|-----------|
| | | | W | W1 | L | H | | | |
| 3066914 | 100 KCA OG150/L/Δ/1.5/1.5 | 10 | 150 | 200 | 3000/6000 | 100 | 4,675 | 1,5 | 1,5 |
| 3066920 | 100 KCA OG200/L/Δ/1.5/1.5 | 10 | 200 | 250 | 3000/6000 | 100 | 4,880 | 1,5 | 1,5 |
| 3066926 | 100 KCA OG300/L/Δ/1.5/1.5 | 10 | 300 | 350 | 3000/6000 | 100 | 5,298 | 1,5 | 1,5 |
| 3066932 | 100 KCA OG450/L/Δ/1.5/1.5 | 10 | 450 | 500 | 3000/6000 | 100 | 5,922 | 1,5 | 1,5 |
| 3066938 | 100 KCA OG600/L/Δ/1.5/1.5 | 10 | 600 | 650 | 3000/6000 | 100 | 6,545 | 1,5 | 1,5 |
| 3066945 | 100 KCA OG750/L/Δ/1.5/2 | 10 | 750 | 800 | 3000/6000 | 100 | 8,045 | 1,5 | 2 |
| 3066951 | 100 KCA OG900/L/Δ/1.5/2 | 10 | 900 | 950 | 3000/6000 | 100 | 8,844 | 1,5 | 2 |
| 3066957 | 100 KCA OG1000/L/Δ/1.5/2 | 10 | 1000 | 1050 | 3000/6000 | 100 | 9,376 | 1,5 | 2 |
| 3066963 | 100 KCA OG1100/L/Δ/1.5/2 | 10 | 1100 | 1150 | 3000/6000 | 100 | 9,911 | 1,5 | 2 |

- Δ: All products codes and weights given are in kilograms (kg) and are hotdip galvanized (HDG) finish.
- To obtain the appropriate component weight in other finishes, multiply the given weight by the below finish factors.
- Finish factor: HDG (ISO En1461) = (HDG):1 / Stainless Steel = (SS) : 0.94
- Please check page "58" for the cover selection.

125 KCA OG 125 mm Height Cable Ladder / Length: 3000mm / 6000mm

The cable ladder is available in standard widths of 150mm, 200mm, 300mm, 450mm, 600mm, 750mm, 900mm and 1000mm although other widths up to 1100mm are available to order. Rung spacing is 300mm as standard.

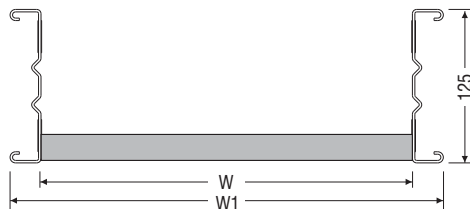
- Loading Depth :100 mm
- Finishes & Materials :Hot Dipped Galvanized Mild Steel
- Hot Dipped Galvanized Corten A
- 316 L grade Stainless Steel (304 grade is available)



*Loading test performed according to IEC 61537 standard.



"Support distance for cable ladders should not exceed the length of cable ladder. Thus, OG cable ladder with L=3m should be supported 3m or less."



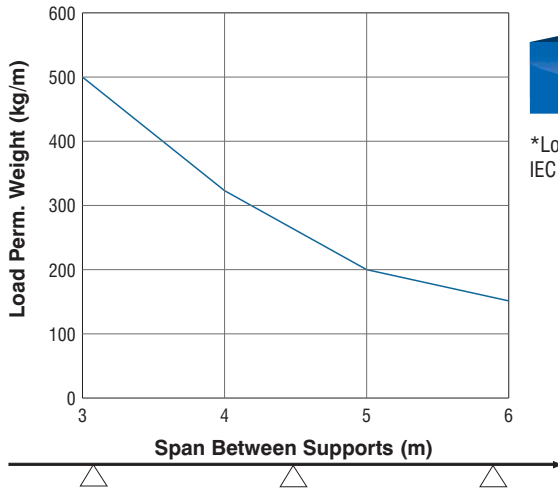
| Code | Description | No. of Rungs | Dimensions(mm) | | | | Weight (kg/mt) | Siderail (mm) | Rung (mm) |
|---------|-------------------------|--------------|----------------|------|-----------|-----|----------------|---------------|-----------|
| | | | W | W1 | L | H | | | |
| 3066969 | 125 KCA OG150/L/Δ/2/1,5 | 10 | 150 | 200 | 3000/6000 | 125 | 6,915 | 2 | 1,5 |
| 3066975 | 125 KCA OG200/L/Δ/2/1,5 | 10 | 200 | 250 | 3000/6000 | 125 | 7,121 | 2 | 1,5 |
| 3066981 | 125 KCA OG300/L/Δ/2/1,5 | 10 | 300 | 350 | 3000/6000 | 125 | 7,539 | 2 | 1,5 |
| 3066987 | 125 KCA OG450/L/Δ/2/1,5 | 10 | 450 | 500 | 3000/6000 | 125 | 8,162 | 2 | 1,5 |
| 3066993 | 125 KCA OG600/L/Δ/2/1,5 | 10 | 600 | 650 | 3000/6000 | 125 | 8,785 | 2 | 1,5 |
| 3067000 | 125 KCA OG750/L/Δ/2/2 | 10 | 750 | 800 | 3000/6000 | 125 | 10,285 | 2 | 2 |
| 3067006 | 125 KCA OG900/L/Δ/2/2 | 10 | 900 | 950 | 3000/6000 | 125 | 11,084 | 2 | 2 |
| 3067012 | 125 KCA OG1000/L/Δ/2/2 | 10 | 1000 | 1050 | 3000/6000 | 125 | 11,616 | 2 | 2 |
| 3067018 | 125 KCA OG1100/L/Δ/2/2 | 10 | 1100 | 1150 | 3000/6000 | 125 | 12,151 | 2 | 2 |

- Δ: All products codes and weights given are in kilograms (kg) and are hotdip galvanized (HDG) finish.
- To obtain the appropriate component weight in other finishes, multiply the given weight by the below finish factors.
- Finish factor: HDG (ISO En1461) = (HDG):1 / Stainless Steel = (SS) : 0.94
- Please check page "58" for the cover selection.

150 KCA OG 150 mm Height Cable Ladder / Length: 3000mm / 6000mm

The cable ladder is available in standard widths of 150mm, 200mm, 300mm, 450mm, 600mm, 750mm, 900mm and 1000mm although other widths up to 1100mm are available to order. Rung spacing is 300mm as standard.

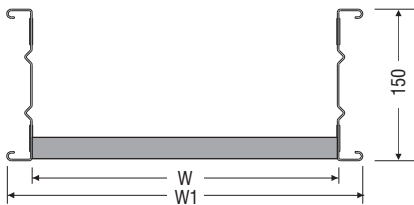
- Loading Depth :125 mm
- Finishes & Materials :Hot Dipped Galvanized Mild Steel
- Hot Dipped Galvanized Corten A
- 316 L grade Stainless Steel (316 grade is available)



*Loading test performed according to IEC 61537 standard.



"Support distance for cable ladders should not exceed the length of cable ladder. Thus, OG cable ladder with L=3m should be supported 3m or less."



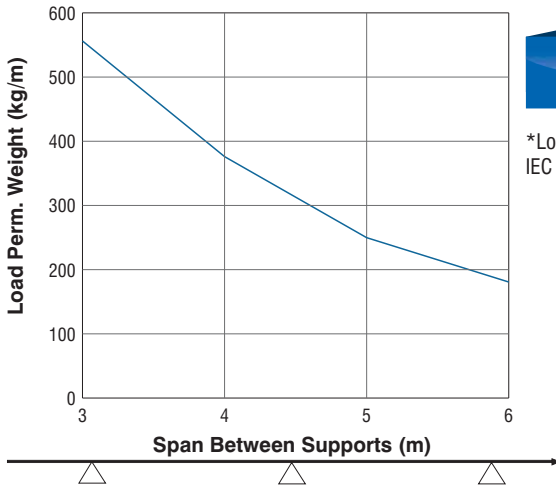
| Code | Description | No. of Rungs | Dimensions(mm) | | | | Weight (kg/mt) | Siderail (mm) | Rung (mm) |
|---------|------------------------|--------------|----------------|------|-----------|-----|----------------|---------------|-----------|
| | | | W | W1 | L | H | | | |
| 3067024 | 150 KCA OG150/L/Δ/2/2 | 10 | 150 | 200 | 3000/6000 | 150 | 7,954 | 2 | 2 |
| 3067030 | 150 KCA OG200/L/Δ/2/2 | 10 | 200 | 250 | 3000/6000 | 150 | 8,218 | 2 | 2 |
| 3067036 | 150 KCA OG300/L/Δ/2/2 | 10 | 300 | 350 | 3000/6000 | 150 | 8,754 | 2 | 2 |
| 3067042 | 150 KCA OG450/L/Δ/2/2 | 10 | 450 | 500 | 3000/6000 | 150 | 9,553 | 2 | 2 |
| 3067048 | 150 KCA OG600/L/Δ/2/2 | 10 | 600 | 650 | 3000/6000 | 150 | 10,349 | 2 | 2 |
| 3067054 | 150 KCA OG750/L/Δ/2/2 | 10 | 750 | 800 | 3000/6000 | 150 | 11,148 | 2 | 2 |
| 3067060 | 150 KCA OG900/L/Δ/2/2 | 10 | 900 | 950 | 3000/6000 | 150 | 11,947 | 2 | 2 |
| 3067066 | 150 KCA OG1000/L/Δ/2/2 | 10 | 1000 | 1050 | 3000/6000 | 150 | 12,479 | 2 | 2 |
| 3067072 | 150 KCA OG1100/L/Δ/2/2 | 10 | 1100 | 1150 | 3000/6000 | 150 | 13,014 | 2 | 2 |

- Δ: All products codes and weights given are in kilograms (kg) and are hotdip galvanized (HDG) finish.
- To obtain the appropriate component weight in other finishes, multiply the given weight by the below finish factors.
- Finish factor: HDG (ISO En1461) = (HDG):1 / Stainless Steel = (SS) : 0.94
- Please check page "58" for the cover selection.

200 KCA OG 200 mm Height Cable Ladder / Length: 3000mm / 6000mm

The cable ladder is available in standard widths of 150mm, 200mm, 300mm, 450mm, 600mm, 750mm, 900mm and 1000mm although other widths up to 1100mm are available to order. Rung spacing is 300mm as standard.

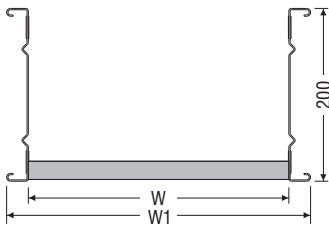
- Loading Depth :175 mm
- Finishes & Materials :Hot Dipped Galvanized Mild Steel
- Hot Dipped Galvanized Corten A
- 316 L grade Stainless Steel (304 grade is available)



*Loading test performed according to IEC 61537 standard.



"Support distance for cable ladders should not exceed the length of cable ladder. Thus, OG cable ladder with L=3m should be supported 3m or less."



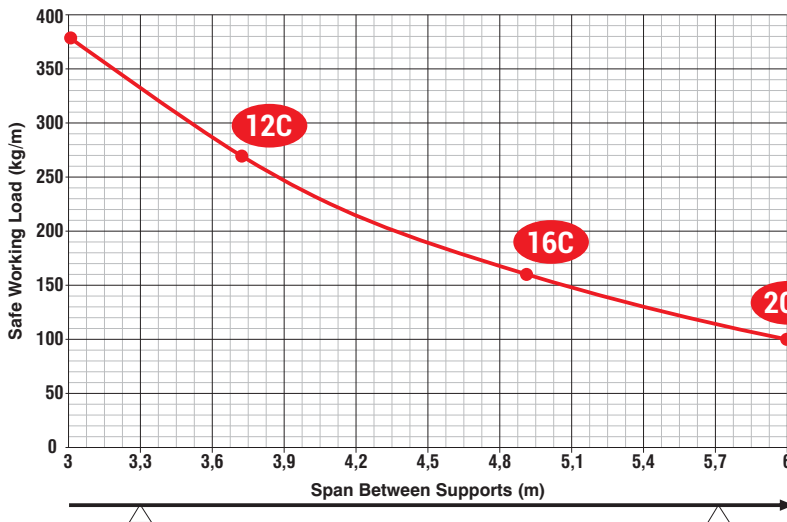
| Code | Description | No. of Rungs | Dimensions(mm) | | | | Weight (kg/mt) | Siderail (mm) | Rung (mm) |
|---------|------------------------|--------------|----------------|------|-----------|-----|----------------|---------------|-----------|
| | | | W | W1 | L | H | | | |
| 3067078 | 200 KCA OG200/L/Δ/2/2 | 10 | 200 | 250 | 3000/6000 | 200 | 9,930 | 2 | 2 |
| 3067084 | 200 KCA OG300/L/Δ/2/2 | 10 | 300 | 350 | 3000/6000 | 200 | 10,465 | 2 | 2 |
| 3067090 | 200 KCA OG450/L/Δ/2/2 | 10 | 450 | 500 | 3000/6000 | 200 | 11,265 | 2 | 2 |
| 3067096 | 200 KCA OG600/L/Δ/2/2 | 10 | 600 | 650 | 3000/6000 | 200 | 12,060 | 2 | 2 |
| 3067102 | 200 KCA OG750/L/Δ/2/2 | 10 | 750 | 800 | 3000/6000 | 200 | 12,860 | 2 | 2 |
| 3067108 | 200 KCA OG900/L/Δ/2/2 | 10 | 900 | 950 | 3000/6000 | 200 | 13,659 | 2 | 2 |
| 3067114 | 200 KCA OG1000/L/Δ/2/2 | 10 | 1000 | 1050 | 3000/6000 | 200 | 14,191 | 2 | 2 |
| 3067120 | 200 KCA OG1100/L/Δ/2/2 | 10 | 1100 | 1150 | 3000/6000 | 200 | 14,726 | 2 | 2 |

- Δ: All products codes and weights given are in kilograms (kg) and are hotdip galvanized (HDG) finish.
- To obtain the appropriate component weight in other finishes, multiply the given weight by the below finish factors.
- Finish factor: HDG (ISO En1461) = (HDG):1 / Stainless Steel = (SS) : 0.94
- Please check page "58" for the cover selection.

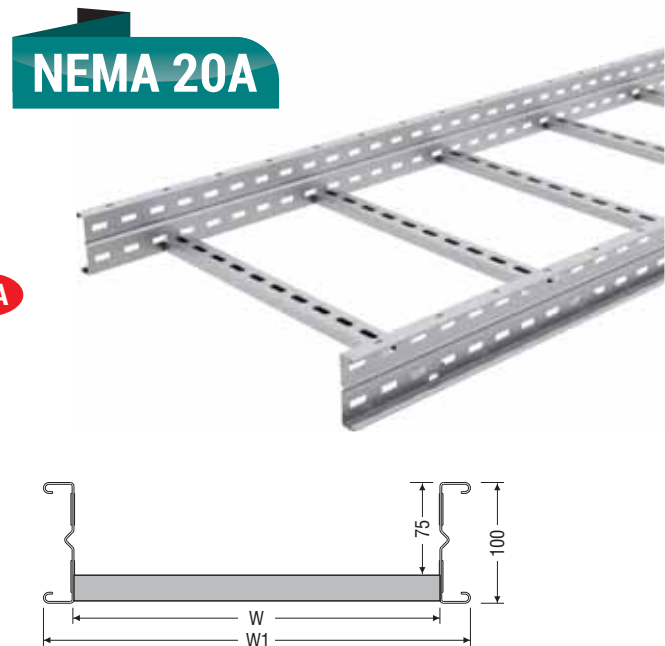
100 KCA OG “NEMA 20A Series Hot-Dipped Galvanized Steel Cable Ladder”

- Overall Height (H) : 100mm (Loading depth: 75mm)
- Internal Widths (W) : 150mm, 200mm, 300mm, 450mm, 600mm, 750mm, 900mm, 1000mm, 1100mm
- Overall Widths : W+50
- Standard Rung Spacing : 300mm
- Standard Lengths (L) : 3 meter/6 meter

H100 HDG NEMA VE-1 Class 20A



Safe working load values are based on simple beam test according to NEMA VE-1-2017 edition.
*Please check Page 101 for NEMA Class Designations.



| 100 KCAOG HDG STEEL CABLE LADDER | | | | | | | |
|----------------------------------|-----------------------|------------------|---------------|--------------------|--------------------|--------------------|-----------------------|
| NEMA 20A | Description | DIMENSIONS | | | | | |
| | | HEIGHT | | WIDTH | | LENGTH | RUNG |
| Code | | Side Rail Height | Loading Depth | Internal Width (W) | Overall Width (W1) | Standard Length | Standard Rung Spacing |
| | | mm (inch.) | | mm (inch.) | | m (ft.) | mm (inch.) |
| 3125361 | 100 KCA OG 150/HDG/L | 100 (4") | 75 (3") | 150 (6") | 200 (8") | 3m/6m(10ft./20ft.) | 300 (12") |
| 3125362 | 100 KCA OG 200/HDG/L | 100 (4") | 75 (3") | 200 (8") | 250 (10") | 3m/6m(10ft./20ft.) | 300 (12") |
| 3125363 | 100 KCA OG 300/HDG/L | 100 (4") | 75 (3") | 300 (12") | 350 (14") | 3m/6m(10ft./20ft.) | 300 (12") |
| 3125364 | 100 KCA OG 450/HDG/L | 100 (4") | 75 (3") | 450 (18") | 500 (20") | 3m/6m(10ft./20ft.) | 300 (12") |
| 3125365 | 100 KCA OG 600/HDG/L | 100 (4") | 75 (3") | 600 (24") | 650 (26") | 3m/6m(10ft./20ft.) | 300 (12") |
| 3125366 | 100 KCA OG 750/HDG/L | 100 (4") | 75 (3") | 750 (30") | 800 (32") | 3m/6m(10ft./20ft.) | 300 (12") |
| 3125367 | 100 KCA OG 900/HDG/L | 100 (4") | 75 (3") | 900 (36") | 950 (38") | 3m/6m(10ft./20ft.) | 300 (12") |
| 3125368 | 100 KCA OG 1000/HDG/L | 100 (4") | 75 (3") | 1000 (40") | 1050 (42") | 3m/6m(10ft./20ft.) | 300 (12") |
| 3125369 | 100 KCA OG 1100/HDG/L | 100 (4") | 75 (3") | 1100 (44") | 1150 (46") | 3m/6m(10ft./20ft.) | 300 (12") |

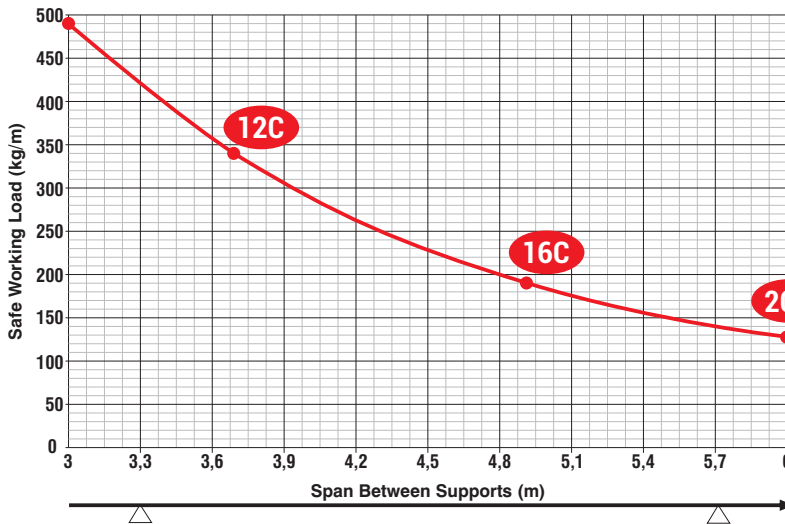
Standard manufacturing lengths are metric system. (Dimensions given in the parenthesis (inch and ft.) are for information.)

■ Please check page “58” for the cover selection.

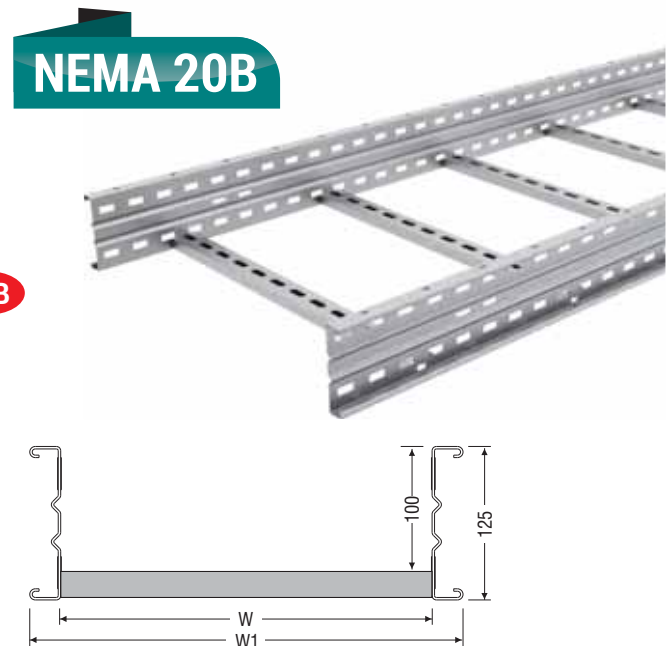
125 KCA OG “NEMA 20B Series Hot-Dipped Galvanized Steel Cable Ladder”

- Overall Height (H) : 125mm (Loading depth: 100mm)
- Internal Widths (W) : 150mm, 200mm, 300mm, 450mm, 600mm, 750mm, 900mm, 1000mm, 1100mm
- Overall Widths : W+50
- Standard Rung Spacing : 300mm
- Standard Lengths (L) : 3 meter/6 meter

H125 HDG NEMA VE-1 Class 20B



Safe working load values are based on simple beam test according to NEMA VE-1-2017 edition.
*Please check Page 101 for NEMA Class Designations.



| 125 KCAOG HDG STEEL CABLE LADDER | | | | | | | |
|----------------------------------|-----------------------|------------------|---------------|--------------------|--------------------|--------------------|-----------------------|
| NEMA 20B | Description | DIMENSIONS | | | | | |
| | | HEIGHT | | WIDTH | | LENGTH | RUNG |
| | | Side Rail Height | Loading Depth | Internal Width (W) | Overall Width (W1) | Standard Length | Standard Rung Spacing |
| Code | | mm (inch.) | | mm (inch.) | | m (ft.) | mm (inch.) |
| 3125370 | 125 KCA OG 150/HDG/L | 125 (5") | 100 (4") | 150 (6") | 200 (8") | 3m/6m(10ft./20ft.) | 300 (12") |
| 3125371 | 125 KCA OG 200/HDG/L | 125 (5") | 100 (4") | 200 (8") | 250 (10") | 3m/6m(10ft./20ft.) | 300 (12") |
| 3125372 | 125 KCA OG 300/HDG/L | 125 (5") | 100 (4") | 300 (12") | 350 (14") | 3m/6m(10ft./20ft.) | 300 (12") |
| 3125373 | 125 KCA OG 450/HDG/L | 125 (5") | 100 (4") | 450 (18") | 500 (20") | 3m/6m(10ft./20ft.) | 300 (12") |
| 3125374 | 125 KCA OG 600/HDG/L | 125 (5") | 100 (4") | 600 (24") | 650 (26") | 3m/6m(10ft./20ft.) | 300 (12") |
| 3125375 | 125 KCA OG 750/HDG/L | 125 (5") | 100 (4") | 750 (30") | 800 (32") | 3m/6m(10ft./20ft.) | 300 (12") |
| 3125376 | 125 KCA OG 900/HDG/L | 125 (5") | 100 (4") | 900 (36") | 950 (38") | 3m/6m(10ft./20ft.) | 300 (12") |
| 3125377 | 125 KCA OG 1000/HDG/L | 125 (5") | 100 (4") | 1000 (40") | 1050 (42") | 3m/6m(10ft./20ft.) | 300 (12") |
| 3125378 | 125 KCA OG 1100/HDG/L | 125 (5") | 100 (4") | 1100 (44") | 1150 (46") | 3m/6m(10ft./20ft.) | 300 (12") |

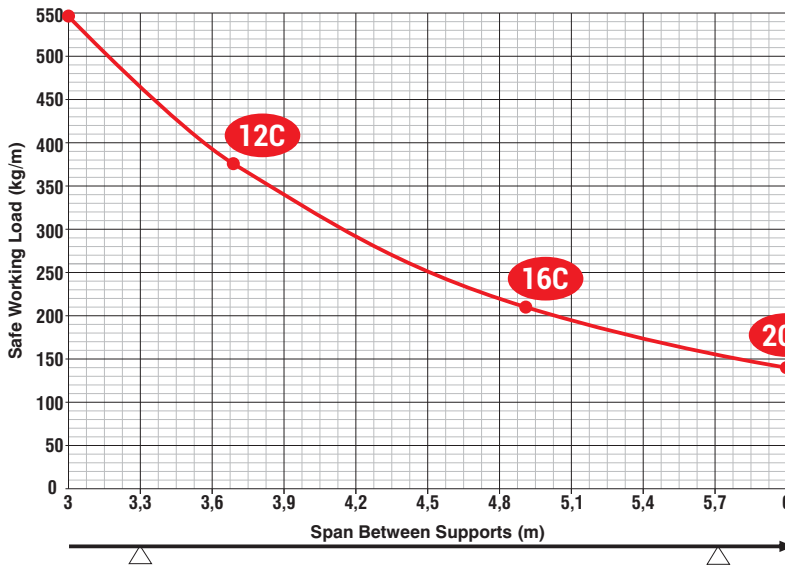
Standard manufacturing lengths are metric system. (Dimensions given in the parenthesis (inch and ft.) are for information.)

■ Please check page “58” for the cover selection.

150 KCA OG “NEMA 20B Series Hot-Dipped Galvanized Steel Cable Ladder”

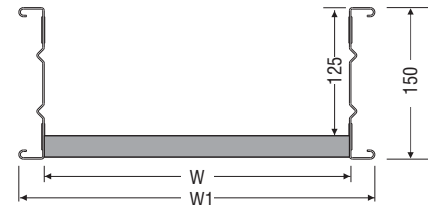
- Overall Height (H) : 150mm (Loading depth: 125mm)
- Internal Widths (W) : 150mm, 200mm, 300mm, 450mm, 600mm, 750mm, 900mm, 1000mm, 1100mm
- Overall Widths : W+50
- Standard Rung Spacing : 300mm
- Standard Lengths (L) : 3 meter/6 meter

H150 HDG NEMA VE-1 Class 20B



Safe working load values are based on simple beam test according to NEMA VE-1-2017 edition.
*Please check Page 101 for NEMA Class Designations.

NEMA 20B



150 KCAOG HDG STEEL CABLE LADDER

| NEMA 20B | Description | DIMENSIONS | | | | | |
|----------|-----------------------|------------------|---------------|--------------------|--------------------|--------------------|-----------------------|
| | | HEIGHT | | WIDTH | | LENGTH | RUNG |
| | | Side Rail Height | Loading Depth | Internal Width (W) | Overall Width (W1) | Standard Length | Standard Rung Spacing |
| Code | | mm (inch.) | | mm (inch.) | | m (ft.) | mm (inch.) |
| 3125379 | 150 KCA OG 150/HDG/L | 150 (6") | 125 (5") | 150 (6") | 200 (8") | 3m/6m(10ft./20ft.) | 300 (12") |
| 3125380 | 150 KCA OG 200/HDG/L | 150 (6") | 125 (5") | 200 (8") | 250 (10") | 3m/6m(10ft./20ft.) | 300 (12") |
| 3125381 | 150 KCA OG 300/HDG/L | 150 (6") | 125 (5") | 300 (12") | 350 (14") | 3m/6m(10ft./20ft.) | 300 (12") |
| 3125382 | 150 KCA OG 450/HDG/L | 150 (6") | 125 (5") | 450 (18") | 500 (20") | 3m/6m(10ft./20ft.) | 300 (12") |
| 3125383 | 150 KCA OG 600/HDG/L | 150 (6") | 125 (5") | 600 (24") | 650 (26") | 3m/6m(10ft./20ft.) | 300 (12") |
| 3125384 | 150 KCA OG 750/HDG/L | 150 (6") | 125 (5") | 750 (30") | 800 (32") | 3m/6m(10ft./20ft.) | 300 (12") |
| 3125385 | 150 KCA OG 900/HDG/L | 150 (6") | 125 (5") | 900 (36") | 950 (38") | 3m/6m(10ft./20ft.) | 300 (12") |
| 3125386 | 150 KCA OG 1000/HDG/L | 150 (6") | 125 (5") | 1000 (40") | 1050 (42") | 3m/6m(10ft./20ft.) | 300 (12") |
| 3125387 | 150 KCA OG 1100/HDG/L | 150 (6") | 125 (5") | 1100 (44") | 1150 (46") | 3m/6m(10ft./20ft.) | 300 (12") |

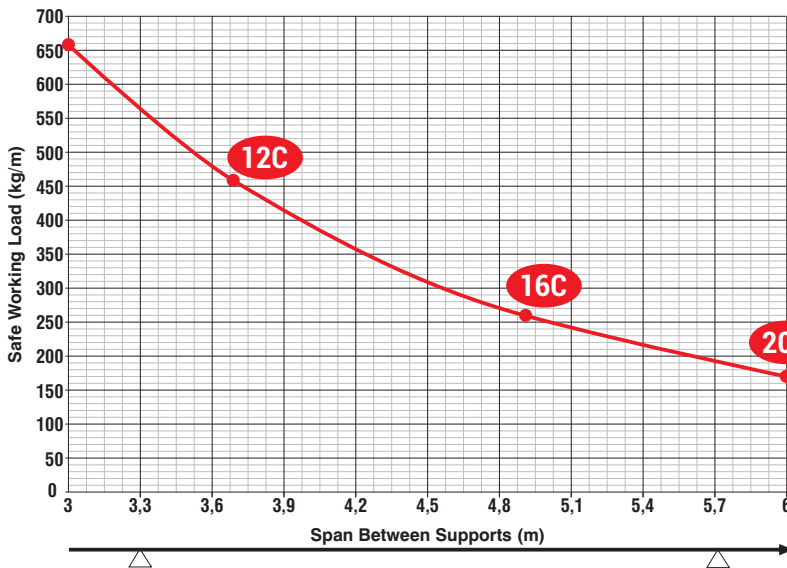
Standard manufacturing lengths are metric system. (Dimensions given in the parenthesis (inch and ft.) are for information.)

■ Please check page “58” for the cover selection.

150 KCA OG “NEMA 20C Series Hot-Dipped Galvanized Steel Cable Ladder”

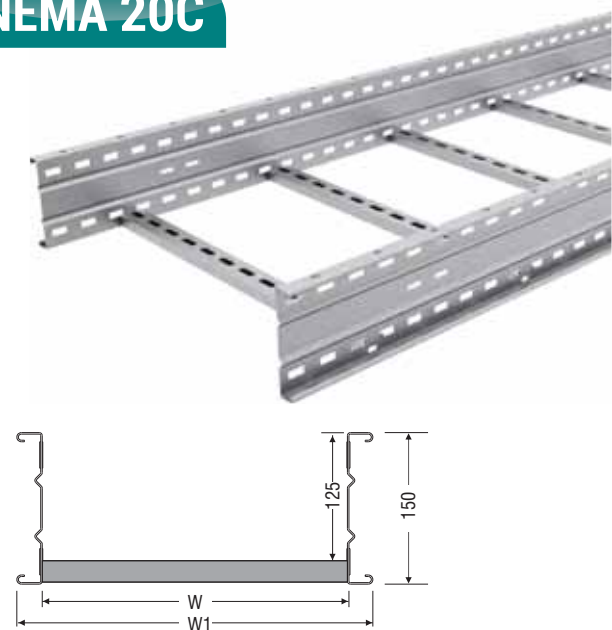
- Overall Height (H) : 150mm (Loading depth: 125mm)
- Internal Widths (W) : 150mm, 200mm, 300mm, 450mm, 600mm, 750mm, 900mm, 1000mm, 1100mm
- Overall Widths : W+50
- Standard Rung Spacing : 300mm
- Standard Lengths (L) : 3 meter/6 meter

H150 HDG NEMA VE-1 Class 20C



Safe working load values are based on simple beam test according to NEMA VE-1-2017 edition.
*Please check Page 101 for NEMA Class Designations.

NEMA 20C



150 KCAOG HDG STEEL CABLE LADDER

| NEMA 20C | Description | DIMENSIONS | | | | | |
|----------|-----------------------|------------------|---------------|--------------------|--------------------|--------------------|-----------------------|
| | | HEIGHT | | WIDTH | | LENGTH | RUNG |
| | | Side Rail Height | Loading Depth | Internal Width (W) | Overall Width (W1) | Standard Length | Standard Rung Spacing |
| Code | | mm (inch.) | | mm (inch.) | | m (ft.) | mm (inch.) |
| 3125388 | 150 KCA OG 150/HDG/L | 150 (6") | 125 (5") | 150 (6") | 200 (8") | 3m/6m(10ft./20ft.) | 300 (12") |
| 3125389 | 150 KCA OG 200/HDG/L | 150 (6") | 125 (5") | 200 (8") | 250 (10") | 3m/6m(10ft./20ft.) | 300 (12") |
| 3125390 | 150 KCA OG 300/HDG/L | 150 (6") | 125 (5") | 300 (12") | 350 (14") | 3m/6m(10ft./20ft.) | 300 (12") |
| 3125391 | 150 KCA OG 450/HDG/L | 150 (6") | 125 (5") | 450 (18") | 500 (20") | 3m/6m(10ft./20ft.) | 300 (12") |
| 3125392 | 150 KCA OG 600/HDG/L | 150 (6") | 125 (5") | 600 (24") | 650 (26") | 3m/6m(10ft./20ft.) | 300 (12") |
| 3125393 | 150 KCA OG 750/HDG/L | 150 (6") | 125 (5") | 750 (30") | 800 (32") | 3m/6m(10ft./20ft.) | 300 (12") |
| 3125394 | 150 KCA OG 900/HDG/L | 150 (6") | 125 (5") | 900 (36") | 950 (38") | 3m/6m(10ft./20ft.) | 300 (12") |
| 3125395 | 150 KCA OG 1000/HDG/L | 150 (6") | 125 (5") | 1000 (40") | 1050 (42") | 3m/6m(10ft./20ft.) | 300 (12") |
| 3125396 | 150 KCA OG 1100/HDG/L | 150 (6") | 125 (5") | 1100 (44") | 1150 (46") | 3m/6m(10ft./20ft.) | 300 (12") |

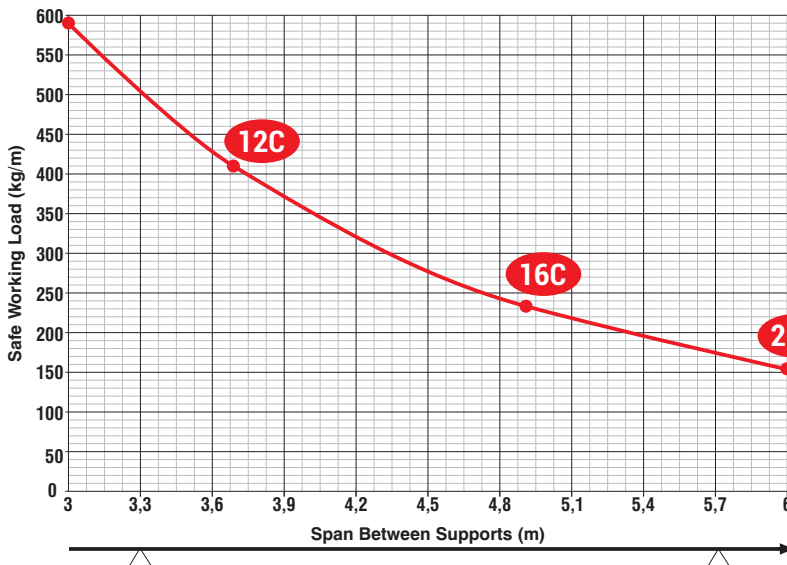
Standard manufacturing lengths are metric system. (Dimensions given in the parenthesis (inch and ft.) are for information.)

■ Please check page “58” for the cover selection.

200 KCA OG “NEMA 20C Series Hot-Dipped Galvanized Steel Cable Ladder”

- Overall Height (H) : 200mm (Loading depth: 175mm)
- Internal Widths (W) : 200mm, 300mm, 450mm, 600mm, 750mm, 900mm, 1000mm, 1100mm
- Overall Widths : W+50
- Standard Rung Spacing : 300mm
- Standard Lengths (L) : 3 meter/6 meter

H200 HDG NEMA VE-1 Class 20C



Safe working load values are based on simple beam test according to NEMA VE-1-2017 edition.
*Please check Page 101 for NEMA Class Designations.



| 200 KCAOG HDG STEEL CABLE LADDER | | | | | | | |
|----------------------------------|----------------------|------------------|---------------|--------------------|--------------------|--------------------|-----------------------|
| NEMA 20C | Description | DIMENSIONS | | | | | |
| | | HEIGHT | | WIDTH | | LENGTH | RUNG |
| Code | | Side Rail Height | Loading Depth | Internal Width (W) | Overall Width (W1) | Standard Length | Standard Rung Spacing |
| | | mm (inch.) | | mm (inch.) | | m (ft.) | mm (inch.) |
| 3125397 | 200 KCA OG200/HDG/L | 200 (8") | 175 (7") | 200 (8") | 250 (10") | 3m/6m(10ft./20ft.) | 300 (12") |
| 3125398 | 200 KCA OG300/HDG/L | 200 (8") | 175 (7") | 300 (12") | 350 (14") | 3m/6m(10ft./20ft.) | 300 (12") |
| 3125399 | 200 KCA OG450/HDG/L | 200 (8") | 175 (7") | 450 (18") | 500 (20") | 3m/6m(10ft./20ft.) | 300 (12") |
| 3125400 | 200 KCA OG600/HDG/L | 200 (8") | 175 (7") | 600 (24") | 650 (26") | 3m/6m(10ft./20ft.) | 300 (12") |
| 3125401 | 200 KCA OG750/HDG/L | 200 (8") | 175 (7") | 750 (30") | 800 (32") | 3m/6m(10ft./20ft.) | 300 (12") |
| 3125402 | 200 KCA OG900/HDG/L | 200 (8") | 175 (7") | 900 (36") | 950 (38") | 3m/6m(10ft./20ft.) | 300 (12") |
| 3125403 | 200 KCA OG1000/HDG/L | 200 (8") | 175 (7") | 1000 (40") | 1050 (42") | 3m/6m(10ft./20ft.) | 300 (12") |
| 3125404 | 200 KCA OG1100/HDG/L | 200 (8") | 175 (7") | 1100 (44") | 1150 (46") | 3m/6m(10ft./20ft.) | 300 (12") |

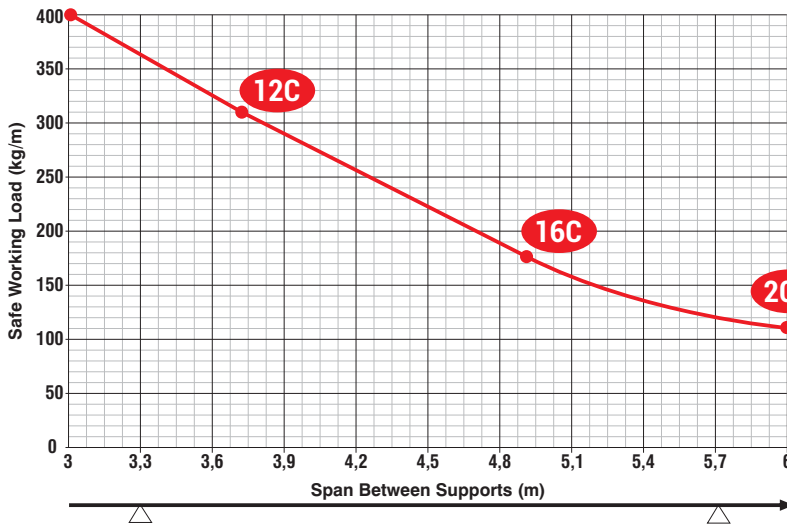
Standard manufacturing lengths are metric system. (Dimensions given in the parenthesis (inch and ft.) are for information.)

■ Please check page “58” for the cover selection.

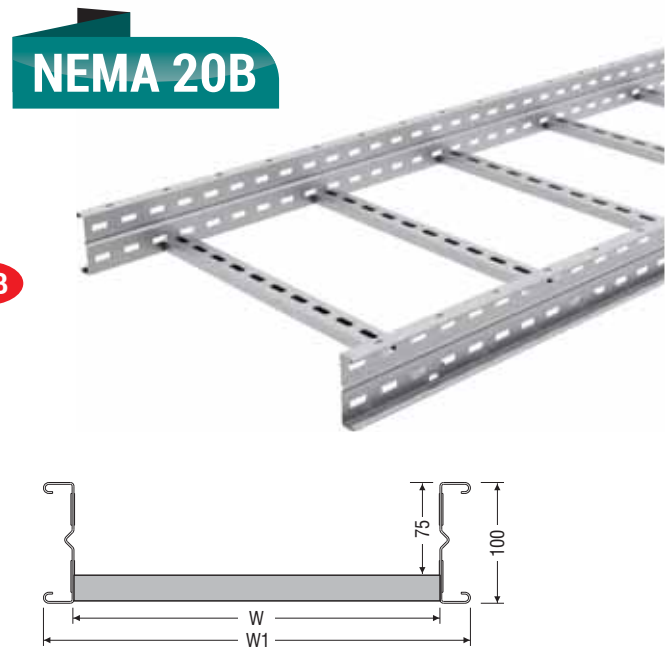
100 KCA OG “NEMA 20B Series STAINLESS STEEL 304/316L Cable Ladder”

- Overall Height (H) : 100mm (Loading depth: 75mm)
- Internal Widths (W) : 150mm, 200mm, 300mm, 450mm, 600mm, 750mm, 900mm, 1000mm, 1100mm
- Overall Widths : W+50
- Standard Rung Spacing : 300mm
- Standard Lengths (L) : 3 meter/6 meter

H100 SS NEMA VE-1 Class 20B



Safe working load values are based on simple beam test according to NEMA VE-1-2017 edition.
*Please check Page 101 for NEMA Class Designations.



| 100 KCAOG STAINLESS STEEL CABLE LADDER | | | | | | | |
|--|----------------------|------------------|---------------|--------------------|--------------------|--------------------|-----------------------|
| NEMA 20B | Description | DIMENSIONS | | | | | |
| | | HEIGHT | | WIDTH | | LENGTH | RUNG |
| Code | | Side Rail Height | Loading Depth | Internal Width (W) | Overall Width (W1) | Standard Length | Standard Rung Spacing |
| | | mm (inch.) | | mm (inch.) | | m (ft.) | mm (inch.) |
| 3125405 | 100 KCA OG 150/SS/L | 100 (4") | 75 (3") | 150 (6") | 200 (8") | 3m/6m(10ft./20ft.) | 300 (12") |
| 3125406 | 100 KCA OG 200/SS/L | 100 (4") | 75 (3") | 200 (8") | 250 (10") | 3m/6m(10ft./20ft.) | 300 (12") |
| 3125407 | 100 KCA OG 300/SS/L | 100 (4") | 75 (3") | 300 (12") | 350 (14") | 3m/6m(10ft./20ft.) | 300 (12") |
| 3125408 | 100 KCA OG 450/SS/L | 100 (4") | 75 (3") | 450 (18") | 500 (20") | 3m/6m(10ft./20ft.) | 300 (12") |
| 3125409 | 100 KCA OG 600/SS/L | 100 (4") | 75 (3") | 600 (24") | 650 (26") | 3m/6m(10ft./20ft.) | 300 (12") |
| 3125410 | 100 KCA OG 750/SS/L | 100 (4") | 75 (3") | 750 (30") | 800 (32") | 3m/6m(10ft./20ft.) | 300 (12") |
| 3125411 | 100 KCA OG 900/SS/L | 100 (4") | 75 (3") | 900 (36") | 950 (38") | 3m/6m(10ft./20ft.) | 300 (12") |
| 3125412 | 100 KCA OG 1000/SS/L | 100 (4") | 75 (3") | 1000 (40") | 1050 (42") | 3m/6m(10ft./20ft.) | 300 (12") |
| 3125413 | 100 KCA OG 1100/SS/L | 100 (4") | 75 (3") | 1100 (44") | 1150 (46") | 3m/6m(10ft./20ft.) | 300 (12") |

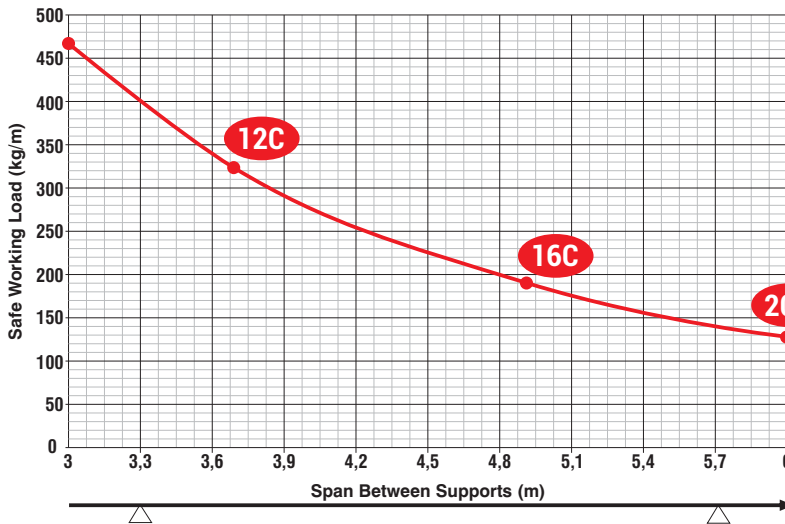
Standard manufacturing lengths are metric system. (Dimensions given in the parenthesis (inch and ft.) are for information.)

■ Please check page “58” for the cover selection.

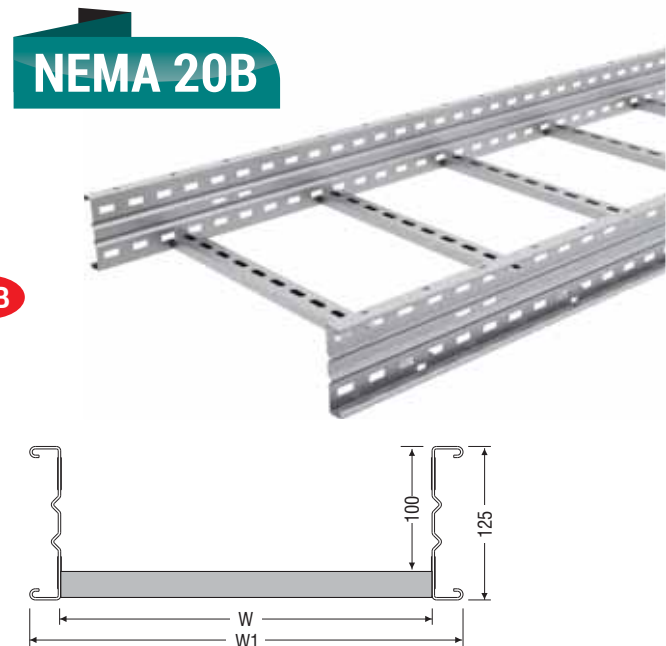
125 KCA OG “NEMA 20B Series STAINLESS STEEL 304/316L Cable Ladder”

- Overall Height (H) : 125mm (Loading depth: 100mm)
- Internal Widths (W) : 150mm, 200mm, 300mm, 450mm, 600mm, 750mm, 900mm, 1000mm, 1100mm
- Overall Widths : W+50
- Standard Rung Spacing : 300mm
- Standard Lengths (L) : 3 meter/6 meter

H125 SS NEMA VE-1 Class 20B



Safe working load values are based on simple beam test according to NEMA VE-1-2017 edition.
*Please check Page 101 for NEMA Class Designations.



125 KCAOG STAINLESS STEEL CABLE LADDER

| NEMA 20B | Description | DIMENSIONS | | | | | |
|----------|----------------------|------------------|---------------|--------------------|--------------------|--------------------|-----------------------|
| | | HEIGHT | | WIDTH | | LENGTH | RUNG |
| | | Side Rail Height | Loading Depth | Internal Width (W) | Overall Width (W1) | Standard Length | Standard Rung Spacing |
| Code | | mm (inch.) | | mm (inch.) | | m (ft.) | mm (inch.) |
| 3125414 | 125 KCA OG 150/SS/L | 125 (5") | 100 (4") | 150 (6") | 200 (8") | 3m/6m(10ft./20ft.) | 300 (12") |
| 3125415 | 125 KCA OG 200/SS/L | 125 (5") | 100 (4") | 200 (8") | 250 (10") | 3m/6m(10ft./20ft.) | 300 (12") |
| 3125416 | 125 KCA OG 300/SS/L | 125 (5") | 100 (4") | 300 (12") | 350 (14") | 3m/6m(10ft./20ft.) | 300 (12") |
| 3125417 | 125 KCA OG 450/SS/L | 125 (5") | 100 (4") | 450 (18") | 500 (20") | 3m/6m(10ft./20ft.) | 300 (12") |
| 3125418 | 125 KCA OG 600/SS/L | 125 (5") | 100 (4") | 600 (24") | 650 (26") | 3m/6m(10ft./20ft.) | 300 (12") |
| 3125419 | 125 KCA OG 750/SS/L | 125 (5") | 100 (4") | 750 (30") | 800 (32") | 3m/6m(10ft./20ft.) | 300 (12") |
| 3125420 | 125 KCA OG 900/SS/L | 125 (5") | 100 (4") | 900 (36") | 950 (38") | 3m/6m(10ft./20ft.) | 300 (12") |
| 3125421 | 125 KCA OG 1000/SS/L | 125 (5") | 100 (4") | 1000 (40") | 1050 (42") | 3m/6m(10ft./20ft.) | 300 (12") |
| 3125422 | 125 KCA OG 1100/SS/L | 125 (5") | 100 (4") | 1100 (44") | 1150 (46") | 3m/6m(10ft./20ft.) | 300 (12") |

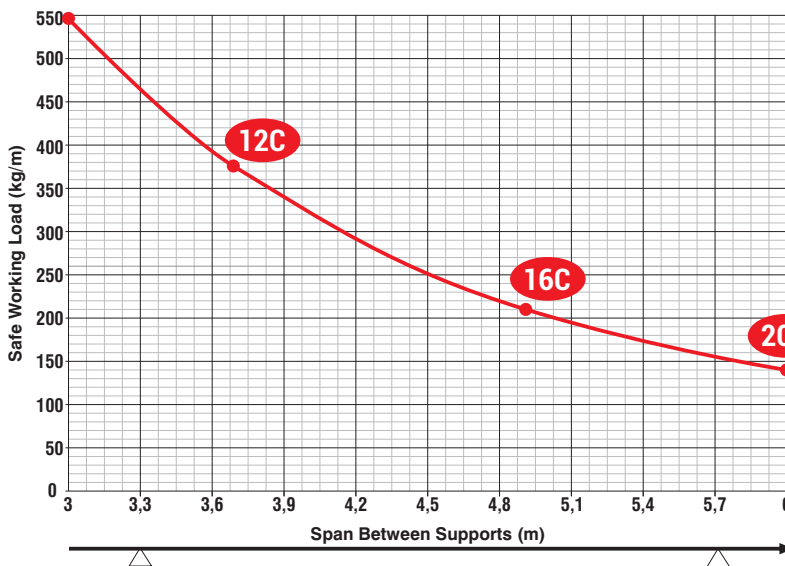
Standard manufacturing lengths are metric system. (Dimensions given in the parenthesis (inch and ft.) are for information.)

■ Please check page “58” for the cover selection.

150 KCA OG “NEMA 20B Series STAINLESS STEEL 304/316L Cable Ladder”

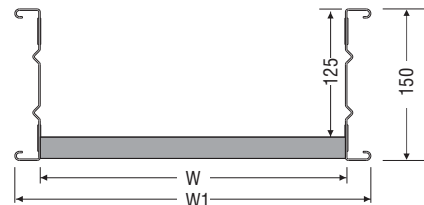
- Overall Height (H) : 150mm (Loading depth: 125mm)
- Internal Widths (W) : 150mm, 200mm, 300mm, 450mm, 600mm, 750mm, 900mm, 1000mm, 1100mm
- Overall Widths : W+50
- Standard Rung Spacing : 300mm
- Standard Lengths (L) : 3 meter/6 meter

H150 SS NEMA VE-1 Class 20B



Safe working load values are based on simple beam test according to NEMA VE-1-2017 edition.
*Please check Page 101 for NEMA Class Designations.

NEMA 20B



150 KCAOG STAINLESS STEEL CABLE LADDER

| NEMA 20B | Description | DIMENSIONS | | | | | |
|----------|----------------------|------------------|---------------|--------------------|--------------------|--------------------|-----------------------|
| | | HEIGHT | | WIDTH | | LENGTH | RUNG |
| | | Side Rail Height | Loading Depth | Internal Width (W) | Overall Width (W1) | Standard Length | Standard Rung Spacing |
| Code | | mm (inch.) | | mm (inch.) | | m (ft.) | mm (inch.) |
| 3125423 | 150 KCA OG 150/SS/L | 150 (6") | 125 (5") | 150 (6") | 200 (8") | 3m/6m(10ft./20ft.) | 300 (12") |
| 3125424 | 150 KCA OG 200/SS/L | 150 (6") | 125 (5") | 200 (8") | 250 (10") | 3m/6m(10ft./20ft.) | 300 (12") |
| 3125425 | 150 KCA OG 300/SS/L | 150 (6") | 125 (5") | 300 (12") | 350 (14") | 3m/6m(10ft./20ft.) | 300 (12") |
| 3125426 | 150 KCA OG 450/SS/L | 150 (6") | 125 (5") | 450 (18") | 500 (20") | 3m/6m(10ft./20ft.) | 300 (12") |
| 3125427 | 150 KCA OG 600/SS/L | 150 (6") | 125 (5") | 600 (24") | 650 (26") | 3m/6m(10ft./20ft.) | 300 (12") |
| 3125428 | 150 KCA OG 750/SS/L | 150 (6") | 125 (5") | 750 (30") | 800 (32") | 3m/6m(10ft./20ft.) | 300 (12") |
| 3125429 | 150 KCA OG 900/SS/L | 150 (6") | 125 (5") | 900 (36") | 950 (38") | 3m/6m(10ft./20ft.) | 300 (12") |
| 3125430 | 150 KCA OG 1000/SS/L | 150 (6") | 125 (5") | 1000 (40") | 1050 (42") | 3m/6m(10ft./20ft.) | 300 (12") |
| 3125431 | 150 KCA OG 1100/SS/L | 150 (6") | 125 (5") | 1100 (44") | 1150 (46") | 3m/6m(10ft./20ft.) | 300 (12") |

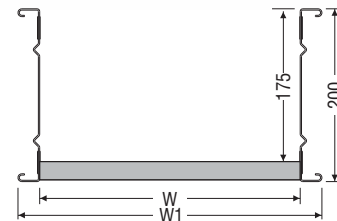
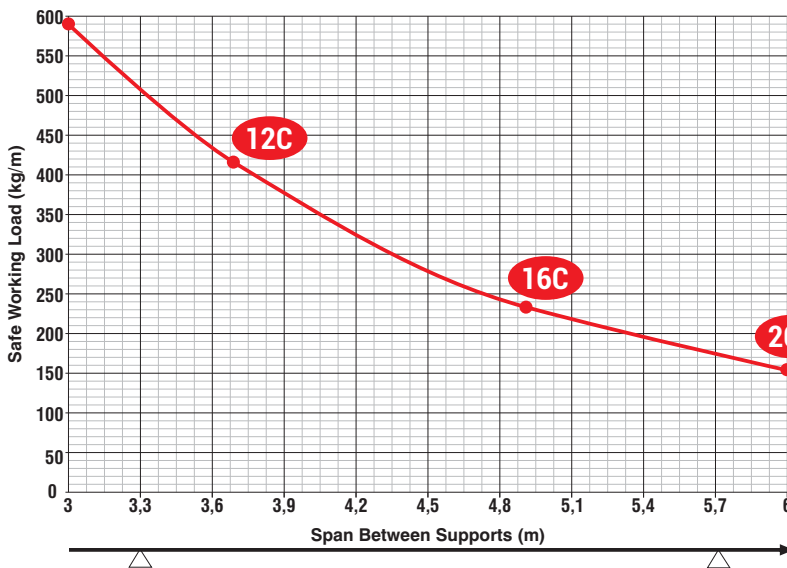
Standard manufacturing lengths are metric system. (Dimensions given in the parenthesis (inch and ft.) are for information.)

■ Please check page “58” for the cover selection.

200 KCA OG “NEMA 20C Series STAINLESS STEEL 304/316L Cable Ladder”

- Overall Height (H) : 200mm (Loading depth: 175mm)
- Internal Widths (W) : 200mm, 300mm, 450mm, 600mm, 750mm, 900mm, 1000mm, 1100mm
- Overall Widths : W+50
- Standard Rung Spacing : 300mm
- Standard Lengths (L) : 3 meter/6 meter

H200 SS NEMA VE-1 Class 20C



Safe working load values are based on simple beam test according to NEMA VE-1-2017 edition.
*Please check Page 101 for NEMA Class Designations.

200 KCAOG STAINLESS STEEL CABLE LADDER

| NEMA 20C | Description | DIMENSIONS | | | | | |
|----------|---------------------|------------------|---------------|--------------------|--------------------|--------------------|-----------------------|
| | | HEIGHT | | WIDTH | | LENGTH | RUNG |
| | | Side Rail Height | Loading Depth | Internal Width (W) | Overall Width (W1) | Standard Length | Standard Rung Spacing |
| Code | | mm (inch.) | | mm (inch.) | | m (ft.) | mm (inch.) |
| 3125432 | 200 KCA OG200/SS/L | 200 (8") | 175 (7") | 200 (8") | 250 (10") | 3m/6m(10ft./20ft.) | 300 (12") |
| 3125433 | 200 KCA OG300/SS/L | 200 (8") | 175 (7") | 300 (12") | 350 (14") | 3m/6m(10ft./20ft.) | 300 (12") |
| 3125434 | 200 KCA OG450/SS/L | 200 (8") | 175 (7") | 450 (18") | 500 (20") | 3m/6m(10ft./20ft.) | 300 (12") |
| 3125435 | 200 KCA OG600/SS/L | 200 (8") | 175 (7") | 600 (24") | 650 (26") | 3m/6m(10ft./20ft.) | 300 (12") |
| 3125436 | 200 KCA OG750/SS/L | 200 (8") | 175 (7") | 750 (30") | 800 (32") | 3m/6m(10ft./20ft.) | 300 (12") |
| 3125437 | 200 KCA OG900/SS/L | 200 (8") | 175 (7") | 900 (36") | 950 (38") | 3m/6m(10ft./20ft.) | 300 (12") |
| 3125438 | 200 KCA OG1000/SS/L | 200 (8") | 175 (7") | 1000 (40") | 1050 (42") | 3m/6m(10ft./20ft.) | 300 (12") |
| 3125439 | 200 KCA OG1100/SS/L | 200 (8") | 175 (7") | 1100 (44") | 1150 (46") | 3m/6m(10ft./20ft.) | 300 (12") |

Standard manufacturing lengths are metric system. (Dimensions given in the parenthesis (inch and ft.) are for information.)

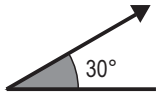
■ Please check page “58” for the cover selection.

KCA OG

KCA OG Vertical Elbows are available in widths from 150mm to 1100mm and angles at 30, 45, 60 and 90 degree as standard. The standard radius are 300mm, 450mm, 600mm and 900mm.

- Integral Coupler is the main features which makes no need for additional joint.
- Rungs can be welded open face uppermost according to requirement





No Splice Plate - Easy to Fix



| Width (mm) | Radius (mm) | Description | Code | | | | Weight (kg) | | | |
|------------|-------------|-------------------------|---------|---------|---------|---------|-------------|--------|--------|--------|
| | | | ↓100 | ↓125 | ↓150 | ↓200 | ↓100 | ↓125 | ↓150 | ↓200 |
| 150 | 300 | ↓ KCA OG150/YD30/Δ/300 | 3067124 | 3067133 | 3067142 | | 3,038 | 3,614 | 3,626 | |
| | 450 | ↓ KCA OG150/YD30/Δ/450 | 3067264 | 3067273 | 3067282 | | 3,524 | 4,144 | 4,705 | |
| | 600 | ↓ KCA OG150/YD30/Δ/600 | 3067404 | 3067413 | 3067422 | | 3,911 | 4,642 | 5,273 | |
| | 900 | ↓ KCA OG150/YD30/Δ/900 | 3067544 | 3067553 | 3067562 | | 4,870 | 5,702 | 6,468 | |
| 200 | 300 | ↓ KCA OG200/YD30/Δ/300 | 3067125 | 3067134 | 3067143 | 3067151 | 3,237 | 3,826 | 4,330 | 5,220 |
| | 450 | ↓ KCA OG200/YD30/Δ/450 | 3067265 | 3067274 | 3067283 | 3067291 | 3,724 | 4,356 | 4,928 | 6,076 |
| | 600 | ↓ KCA OG200/YD30/Δ/600 | 3067405 | 3067414 | 3067423 | 3067431 | 4,110 | 4,853 | 5,496 | 6,779 |
| | 900 | ↓ KCA OG200/YD30/Δ/900 | 3067545 | 3067554 | 3067563 | 3067571 | 5,068 | 5,914 | 6,690 | 8,247 |
| 300 | 300 | ↓ KCA OG300/YD30/Δ/300 | 3067126 | 3067135 | 3067144 | 3067152 | 3,638 | 4,253 | 4,780 | 5,838 |
| | 450 | ↓ KCA OG300/YD30/Δ/450 | 3067266 | 3067275 | 3067284 | 3067292 | 4,124 | 4,783 | 5,378 | 6,571 |
| | 600 | ↓ KCA OG300/YD30/Δ/600 | 3067406 | 3067415 | 3067424 | 3067432 | 4,510 | 5,281 | 5,946 | 7,275 |
| | 900 | ↓ KCA OG300/YD30/Δ/900 | 3067546 | 3067555 | 3067564 | 3067572 | 5,469 | 6,340 | 7,141 | 8,742 |
| 450 | 300 | ↓ KCA OG450/YD30/Δ/300 | 3067127 | 3067136 | 3067145 | 3067153 | 4,235 | 4,890 | 5,451 | 6,576 |
| | 450 | ↓ KCA OG450/YD30/Δ/450 | 3067267 | 3067276 | 3067285 | 3067293 | 4,721 | 5,420 | 6,048 | 7,311 |
| | 600 | ↓ KCA OG450/YD30/Δ/600 | 3067407 | 3067416 | 3067425 | 3067433 | 5,107 | 5,918 | 6,617 | 8,014 |
| | 900 | ↓ KCA OG450/YD30/Δ/900 | 3067547 | 3067556 | 3067565 | 3067573 | 6,067 | 6,977 | 7,811 | 9,480 |
| 600 | 300 | ↓ KCA OG600/YD30/Δ/300 | 3067128 | 3067137 | 3067146 | 3067154 | 4,835 | 5,529 | 6,123 | 7,317 |
| | 450 | ↓ KCA OG600/YD30/Δ/450 | 3067268 | 3067277 | 3067286 | 3067294 | 6,073 | 6,811 | 7,473 | 8,803 |
| | 600 | ↓ KCA OG600/YD30/Δ/600 | 3067408 | 3067417 | 3067426 | 3067434 | 6,459 | 7,308 | 8,042 | 9,506 |
| | 900 | ↓ KCA OG600/YD30/Δ/900 | 3067548 | 3067557 | 3067566 | 3067574 | 7,417 | 8,369 | 9,237 | 10,973 |
| 750 | 300 | ↓ KCA OG750/YD30/Δ/300 | 3067129 | 3067138 | 3067147 | 3067155 | 5,966 | 6,700 | 7,328 | 8,590 |
| | 450 | ↓ KCA OG750/YD30/Δ/450 | 3067269 | 3067278 | 3067287 | 3067295 | 7,658 | 8,435 | 9,132 | 10,529 |
| | 600 | ↓ KCA OG750/YD30/Δ/600 | 3067409 | 3067418 | 3067427 | 3067435 | 8,044 | 8,933 | 9,700 | 11,232 |
| | 900 | ↓ KCA OG750/YD30/Δ/900 | 3067549 | 3067558 | 3067567 | 3067575 | 9,002 | 9,992 | 10,894 | 12,698 |
| 900 | 300 | ↓ KCA OG900/YD30/Δ/300 | 3067130 | 3067139 | 3067148 | 3067156 | 8,117 | 8,889 | 9,552 | 10,881 |
| | 450 | ↓ KCA OG900/YD30/Δ/450 | 3067270 | 3067279 | 3067288 | 3067296 | 8,603 | 9,419 | 10,150 | 11,615 |
| | 600 | ↓ KCA OG900/YD30/Δ/600 | 3067410 | 3067419 | 3067428 | 3067436 | 8,988 | 9,918 | 10,718 | 12,318 |
| | 900 | ↓ KCA OG900/YD30/Δ/900 | 3067550 | 3067559 | 3067568 | 3067576 | 9,947 | 10,977 | 11,913 | 13,785 |
| 1000 | 300 | ↓ KCA OG1000/YD30/Δ/300 | 3067131 | 3067140 | 3067149 | 3067157 | 8,745 | 9,545 | 10,230 | 11,604 |
| | 450 | ↓ KCA OG1000/YD30/Δ/450 | 3067271 | 3067280 | 3067289 | 3067297 | 9,231 | 10,074 | 10,827 | 12,338 |
| | 600 | ↓ KCA OG1000/YD30/Δ/600 | 3067411 | 3067420 | 3067429 | 3067437 | 9,617 | 10,572 | 11,396 | 13,041 |
| | 900 | ↓ KCA OG1000/YD30/Δ/900 | 3067551 | 3067560 | 3067569 | 3067577 | 10,577 | 11,633 | 12,591 | 14,508 |
| 1100 | 300 | ↓ KCA OG1100/YD30/Δ/300 | 3067132 | 3067141 | 3067150 | 3067158 | 9,374 | 10,199 | 10,908 | 12,327 |
| | 450 | ↓ KCA OG1100/YD30/Δ/450 | 3067272 | 3067281 | 3067290 | 3067298 | 9,860 | 10,729 | 11,505 | 13,060 |
| | 600 | ↓ KCA OG1100/YD30/Δ/600 | 3067412 | 3067421 | 3067430 | 3067438 | 10,245 | 11,228 | 12,074 | 13,764 |
| | 900 | ↓ KCA OG1100/YD30/Δ/900 | 3067552 | 3067561 | 3067570 | 3067578 | 11,205 | 12,287 | 13,268 | 15,231 |



- 16 pcs M10X20 bolt set should be ordered.
- Δ: All products codes and weights given are in kilograms (kg) and are hotdip galvanized (HDG) finish.
- To obtain the appropriate component weight in other finishes, multiply the given weight by the below finish factors.
- Finish factor: HDG (ISO En1461) = (HDG):1 / Stainless Steel = (SS) : 0.94

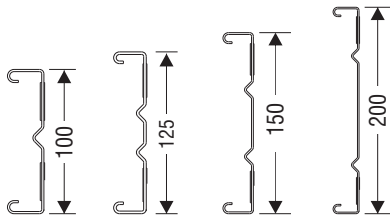
■ Please indicate order code in your orders.

■ Please contact us for special modules.

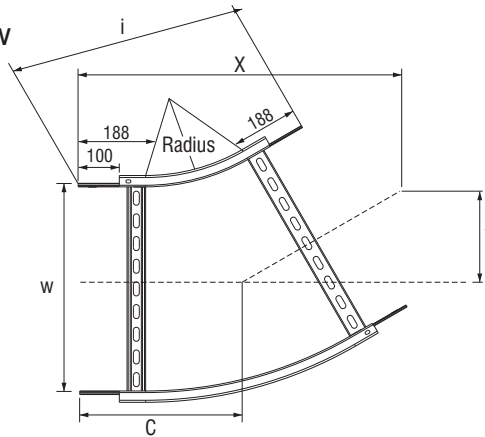
■ Material weights may vary by ± 10%

►► Fittings YD30 Horizontal Elbow

Siderail:



2 mm Standard thickness



Fitting shown for illustration purposes only. The rung layout shown is typical and will vary on each fitting, depending on width and radius.

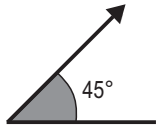
| Description | No. of Rungs | Dimensions (mm) | | | |
|-------------------------|--------------|-----------------|-----|-----|-----|
| | | X | Y | i | C |
| ↓ KCA OG150/YD30/Δ/300 | 2 | 539 | 144 | 518 | 289 |
| ↓ KCA OG150/YD30/Δ/450 | 2 | 614 | 165 | 596 | 329 |
| ↓ KCA OG150/YD30/Δ/600 | 2 | 689 | 185 | 673 | 369 |
| ↓ KCA OG150/YD30/Δ/900 | 3 | 839 | 225 | 829 | 449 |
| ↓ KCA OG200/YD30/Δ/300 | 2 | 552 | 148 | 518 | 296 |
| ↓ KCA OG200/YD30/Δ/450 | 2 | 626 | 168 | 596 | 335 |
| ↓ KCA OG200/YD30/Δ/600 | 2 | 701 | 188 | 673 | 375 |
| ↓ KCA OG200/YD30/Δ/900 | 3 | 864 | 232 | 829 | 462 |
| ↓ KCA OG300/YD30/Δ/300 | 2 | 577 | 155 | 518 | 309 |
| ↓ KCA OG300/YD30/Δ/450 | 2 | 651 | 175 | 596 | 349 |
| ↓ KCA OG300/YD30/Δ/600 | 2 | 726 | 195 | 673 | 389 |
| ↓ KCA OG300/YD30/Δ/900 | 3 | 889 | 238 | 829 | 476 |
| ↓ KCA OG450/YD30/Δ/300 | 2 | 614 | 165 | 518 | 329 |
| ↓ KCA OG450/YD30/Δ/450 | 2 | 689 | 185 | 596 | 369 |
| ↓ KCA OG450/YD30/Δ/600 | 2 | 764 | 205 | 673 | 409 |
| ↓ KCA OG450/YD30/Δ/900 | 3 | 926 | 248 | 829 | 496 |
| ↓ KCA OG600/YD30/Δ/300 | 2 | 651 | 175 | 518 | 349 |
| ↓ KCA OG600/YD30/Δ/450 | 2 | 728 | 196 | 596 | 389 |
| ↓ KCA OG600/YD30/Δ/600 | 2 | 801 | 215 | 673 | 429 |
| ↓ KCA OG600/YD30/Δ/900 | 3 | 964 | 258 | 829 | 516 |
| ↓ KCA OG750/YD30/Δ/300 | 2 | 689 | 185 | 518 | 369 |
| ↓ KCA OG750/YD30/Δ/450 | 2 | 766 | 206 | 596 | 409 |
| ↓ KCA OG750/YD30/Δ/600 | 2 | 838 | 225 | 673 | 449 |
| ↓ KCA OG750/YD30/Δ/900 | 3 | 1001 | 268 | 829 | 536 |
| ↓ KCA OG900/YD30/Δ/300 | 2 | 726 | 195 | 518 | 389 |
| ↓ KCA OG900/YD30/Δ/450 | 2 | 803 | 216 | 596 | 429 |
| ↓ KCA OG900/YD30/Δ/600 | 2 | 876 | 235 | 673 | 469 |
| ↓ KCA OG900/YD30/Δ/900 | 3 | 1039 | 278 | 829 | 556 |
| ↓ KCA OG1000/YD30/Δ/300 | 2 | 752 | 202 | 518 | 403 |
| ↓ KCA OG1000/YD30/Δ/450 | 2 | 829 | 223 | 596 | 443 |
| ↓ KCA OG1000/YD30/Δ/600 | 2 | 901 | 241 | 673 | 483 |
| ↓ KCA OG1000/YD30/Δ/900 | 3 | 1064 | 285 | 829 | 569 |
| ↓ KCA OG1100/YD30/Δ/300 | 2 | 777 | 208 | 518 | 416 |
| ↓ KCA OG1100/YD30/Δ/450 | 2 | 854 | 230 | 596 | 456 |
| ↓ KCA OG1100/YD30/Δ/600 | 2 | 926 | 248 | 673 | 496 |
| ↓ KCA OG1100/YD30/Δ/900 | 3 | 1089 | 292 | 829 | 582 |

■ Please check page “62” for the cover selection.

■ Please indicate order code in your orders.

■ Please contact us for special modules.

■ Material weights may vary by ± 10%



No Splice Plate - Easy to Fix

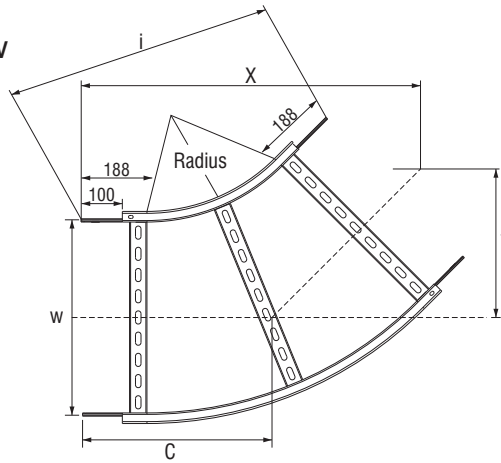
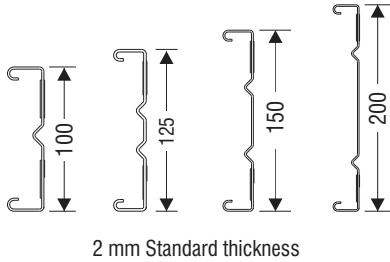


| Width (mm) | Radius (mm) | Description | Code | | | | Weight (kg) | | | |
|------------|-------------|-------------------------|---------|---------|---------|---------|-------------|--------|--------|--------|
| | | | ↓100 | ↓125 | ↓150 | ↓200 | ↓100 | ↓125 | ↓150 | ↓200 |
| 150 | 300 | ↓ KCA OG150/YD45/Δ/300 | 3067159 | 3067168 | 3067177 | | 3,605 | 4,278 | 4,858 | |
| | 450 | ↓ KCA OG150/YD45/Δ/450 | 3067299 | 3067308 | 3067317 | | 4,252 | 5,042 | 5,730 | |
| | 600 | ↓ KCA OG150/YD45/Δ/600 | 3067439 | 3067448 | 3067457 | | 5,047 | 5,837 | 6,626 | |
| | 900 | ↓ KCA OG150/YD45/Δ/900 | 3067579 | 3067588 | 3067597 | | 6,398 | 7,426 | 8,418 | |
| 200 | 300 | ↓ KCA OG200/YD45/Δ/300 | 3067160 | 3067169 | 3067178 | 3067186 | 3,841 | 4,533 | 5,130 | 6,331 |
| | 450 | ↓ KCA OG200/YD45/Δ/450 | 3067300 | 3067309 | 3067318 | 3067326 | 4,741 | 5,552 | 6,257 | 7,655 |
| | 600 | ↓ KCA OG200/YD45/Δ/600 | 3067440 | 3067449 | 3067458 | 3067466 | 5,282 | 6,093 | 6,898 | 8,501 |
| | 900 | ↓ KCA OG200/YD45/Δ/900 | 3067580 | 3067589 | 3067598 | 3067606 | 6,634 | 7,682 | 8,691 | 10,700 |
| 300 | 300 | ↓ KCA OG300/YD45/Δ/300 | 3067161 | 3067170 | 3067179 | 3067187 | 4,318 | 5,049 | 5,680 | 6,948 |
| | 450 | ↓ KCA OG300/YD45/Δ/450 | 3067301 | 3067310 | 3067319 | 3067327 | 4,963 | 5,814 | 6,553 | 8,018 |
| | 600 | ↓ KCA OG300/YD45/Δ/600 | 3067441 | 3067450 | 3067459 | 3067467 | 5,759 | 6,608 | 7,448 | 9,497 |
| | 900 | ↓ KCA OG300/YD45/Δ/900 | 3067581 | 3067590 | 3067599 | 3067607 | 7,110 | 8,197 | 9,240 | 11,318 |
| 450 | 300 | ↓ KCA OG450/YD45/Δ/300 | 3067162 | 3067171 | 3067180 | 3067188 | 5,592 | 6,383 | 7,066 | 8,435 |
| | 450 | ↓ KCA OG450/YD45/Δ/450 | 3067302 | 3067311 | 3067320 | 3067328 | 6,238 | 7,148 | 7,938 | 9,505 |
| | 600 | ↓ KCA OG450/YD45/Δ/600 | 3067442 | 3067451 | 3067460 | 3067468 | 7,033 | 7,942 | 8,833 | 10,605 |
| | 900 | ↓ KCA OG450/YD45/Δ/900 | 3067582 | 3067591 | 3067600 | 3067608 | 8,385 | 9,532 | 10,626 | 12,804 |
| 600 | 300 | ↓ KCA OG600/YD45/Δ/300 | 3067163 | 3067172 | 3067181 | 3067189 | 6,491 | 7,341 | 8,075 | 9,546 |
| | 450 | ↓ KCA OG600/YD45/Δ/450 | 3067303 | 3067312 | 3067321 | 3067329 | 7,137 | 8,106 | 8,946 | 10,616 |
| | 600 | ↓ KCA OG600/YD45/Δ/600 | 3067443 | 3067452 | 3067461 | 3067469 | 7,933 | 8,900 | 9,842 | 11,716 |
| | 900 | ↓ KCA OG600/YD45/Δ/900 | 3067583 | 3067592 | 3067601 | 3067609 | 9,284 | 10,490 | 11,635 | 13,915 |
| 750 | 300 | ↓ KCA OG750/YD45/Δ/300 | 3067164 | 3067173 | 3067182 | 3067190 | 8,188 | 9,098 | 9,882 | 11,455 |
| | 450 | ↓ KCA OG750/YD45/Δ/450 | 3067304 | 3067313 | 3067322 | 3067330 | 10,041 | 11,068 | 11,959 | 13,731 |
| | 600 | ↓ KCA OG750/YD45/Δ/600 | 3067444 | 3067453 | 3067462 | 3067470 | 10,836 | 11,862 | 12,856 | 14,830 |
| | 900 | ↓ KCA OG750/YD45/Δ/900 | 3067584 | 3067593 | 3067602 | 3067610 | 10,981 | 12,247 | 13,442 | 15,825 |
| 900 | 300 | ↓ KCA OG900/YD45/Δ/300 | 3067165 | 3067174 | 3067183 | 3067191 | 9,247 | 10,215 | 11,050 | 12,725 |
| | 450 | ↓ KCA OG900/YD45/Δ/450 | 3067305 | 3067314 | 3067323 | 3067331 | 11,338 | 12,425 | 13,367 | 15,239 |
| | 600 | ↓ KCA OG900/YD45/Δ/600 | 3067445 | 3067454 | 3067463 | 3067471 | 12,133 | 13,219 | 14,263 | 16,339 |
| | 900 | ↓ KCA OG900/YD45/Δ/900 | 3067585 | 3067594 | 3067603 | 3067611 | 13,484 | 14,809 | 16,056 | 18,539 |
| 1000 | 300 | ↓ KCA OG1000/YD45/Δ/300 | 3067166 | 3067175 | 3067184 | 3067192 | 11,554 | 12,563 | 13,432 | 15,175 |
| | 450 | ↓ KCA OG1000/YD45/Δ/450 | 3067306 | 3067315 | 3067324 | 3067332 | 12,200 | 13,328 | 14,303 | 16,244 |
| | 600 | ↓ KCA OG1000/YD45/Δ/600 | 3067446 | 3067455 | 3067464 | 3067472 | 12,997 | 14,122 | 15,200 | 17,344 |
| | 900 | ↓ KCA OG1000/YD45/Δ/900 | 3067586 | 3067595 | 3067604 | 3067612 | 14,347 | 15,711 | 16,992 | 19,544 |
| 1100 | 300 | ↓ KCA OG1100/YD45/Δ/300 | 3067167 | 3067176 | 3067185 | 3067193 | 12,418 | 13,466 | 14,368 | 16,179 |
| | 450 | ↓ KCA OG1100/YD45/Δ/450 | 3067307 | 3067316 | 3067325 | 3067333 | 13,064 | 14,231 | 15,241 | 17,249 |
| | 600 | ↓ KCA OG1100/YD45/Δ/600 | 3067447 | 3067456 | 3067465 | 3067473 | 13,859 | 15,025 | 16,136 | 18,348 |
| | 900 | ↓ KCA OG1100/YD45/Δ/900 | 3067587 | 3067596 | 3067605 | 3067613 | 15,211 | 16,614 | 17,929 | 20,548 |



- 16 pcs M10X20 bolt set should be ordered.
- Δ: All products codes and weights given are in kilograms (kg) and are hotdip galvanized (HDG) finish.
- To obtain the appropriate component weight in other finishes, multiply the given weight by the below finish factors.
- Finish factor: HDG (ISO En1461) = (HDG):1 / Stainless Steel = (SS) : 0.94

Siderail:



!
Fitting shown for illustration purposes only. The rung layout shown is typical and will vary on each fitting, depending on width and radius.

| Description | No. of Rungs | Dimensions (mm) | | | |
|-------------------------|--------------|-----------------|-----|------|-----|
| | | X | Y | i | C |
| ↓ KCA OG150/YD45/Δ/300 | 2 | 587 | 244 | 576 | 344 |
| ↓ KCA OG150/YD45/Δ/450 | 3 | 693 | 288 | 691 | 406 |
| ↓ KCA OG150/YD45/Δ/600 | 3 | 800 | 332 | 807 | 468 |
| ↓ KCA OG150/YD45/Δ/900 | 3 | 1012 | 419 | 1036 | 592 |
| ↓ KCA OG200/YD45/Δ/300 | 2 | 604 | 251 | 576 | 354 |
| ↓ KCA OG200/YD45/Δ/450 | 3 | 711 | 295 | 691 | 416 |
| ↓ KCA OG200/YD45/Δ/600 | 3 | 817 | 339 | 807 | 478 |
| ↓ KCA OG200/YD45/Δ/900 | 3 | 1029 | 426 | 1036 | 602 |
| ↓ KCA OG300/YD45/Δ/300 | 2 | 640 | 266 | 576 | 375 |
| ↓ KCA OG300/YD45/Δ/450 | 3 | 746 | 310 | 691 | 437 |
| ↓ KCA OG300/YD45/Δ/600 | 3 | 852 | 353 | 807 | 499 |
| ↓ KCA OG300/YD45/Δ/900 | 3 | 1064 | 440 | 1036 | 623 |
| ↓ KCA OG450/YD45/Δ/300 | 2 | 693 | 288 | 576 | 406 |
| ↓ KCA OG450/YD45/Δ/450 | 3 | 799 | 332 | 691 | 468 |
| ↓ KCA OG450/YD45/Δ/600 | 3 | 905 | 375 | 807 | 530 |
| ↓ KCA OG450/YD45/Δ/900 | 3 | 1118 | 462 | 1036 | 654 |
| ↓ KCA OG600/YD45/Δ/300 | 2 | 747 | 310 | 576 | 437 |
| ↓ KCA OG600/YD45/Δ/450 | 3 | 853 | 355 | 691 | 499 |
| ↓ KCA OG600/YD45/Δ/600 | 3 | 957 | 397 | 807 | 561 |
| ↓ KCA OG600/YD45/Δ/900 | 3 | 1170 | 484 | 1036 | 685 |
| ↓ KCA OG750/YD45/Δ/300 | 2 | 800 | 333 | 576 | 469 |
| ↓ KCA OG750/YD45/Δ/450 | 3 | 906 | 377 | 691 | 530 |
| ↓ KCA OG750/YD45/Δ/600 | 3 | 1010 | 418 | 807 | 592 |
| ↓ KCA OG750/YD45/Δ/900 | 3 | 1224 | 506 | 1036 | 716 |
| ↓ KCA OG900/YD45/Δ/300 | 2 | 853 | 355 | 576 | 499 |
| ↓ KCA OG900/YD45/Δ/450 | 3 | 960 | 399 | 691 | 561 |
| ↓ KCA OG900/YD45/Δ/600 | 3 | 1063 | 439 | 807 | 623 |
| ↓ KCA OG900/YD45/Δ/900 | 3 | 1277 | 528 | 1036 | 747 |
| ↓ KCA OG1000/YD45/Δ/300 | 2 | 889 | 370 | 576 | 520 |
| ↓ KCA OG1000/YD45/Δ/450 | 3 | 995 | 414 | 691 | 582 |
| ↓ KCA OG1000/YD45/Δ/600 | 3 | 1098 | 454 | 807 | 644 |
| ↓ KCA OG1000/YD45/Δ/900 | 3 | 1312 | 543 | 1036 | 767 |
| ↓ KCA OG1100/YD45/Δ/300 | 2 | 924 | 384 | 576 | 541 |
| ↓ KCA OG1100/YD45/Δ/450 | 3 | 1031 | 429 | 691 | 603 |
| ↓ KCA OG1100/YD45/Δ/600 | 3 | 1133 | 469 | 807 | 664 |
| ↓ KCA OG1100/YD45/Δ/900 | 3 | 1348 | 557 | 1036 | 788 |

■ Please check page “63” for the cover selection.

■ Please indicate order code in your orders.

■ Please contact us for special modules.

■ Material weights may vary by ± 10%



| Width (mm) | Radius (mm) | Description | Code | | | | Weight (kg) | | | |
|------------|-------------|-------------------------|---------|---------|---------|---------|-------------|--------|--------|--------|
| | | | ↓100 | ↓125 | ↓150 | ↓200 | ↓100 | ↓125 | ↓150 | ↓200 |
| 150 | 300 | ↓ KCA OG150/YD60/Δ/300 | 3067194 | 3067203 | 3067212 | | 4,216 | 4,962 | 5,628 | |
| | 450 | ↓ KCA OG150/YD60/Δ/450 | 3067334 | 3067343 | 3067352 | | 5,301 | 6,184 | 6,985 | |
| | 600 | ↓ KCA OG150/YD60/Δ/600 | 3067474 | 3067483 | 3067492 | | 6,224 | 7,244 | 8,181 | |
| | 900 | ↓ KCA OG150/YD60/Δ/900 | 3067614 | 3067623 | 3067632 | | 7,864 | 9,170 | 10,551 | |
| 200 | 300 | ↓ KCA OG200/YD60/Δ/300 | 3067195 | 3067204 | 3067213 | 3067221 | 4,489 | 5,262 | 5,950 | 7,307 |
| | 450 | ↓ KCA OG200/YD60/Δ/450 | 3067335 | 3067344 | 3067353 | 3067361 | 5,635 | 6,545 | 7,369 | 8,998 |
| | 600 | ↓ KCA OG200/YD60/Δ/600 | 3067475 | 3067484 | 3067493 | 3067501 | 6,559 | 7,605 | 8,565 | 10,464 |
| | 900 | ↓ KCA OG200/YD60/Δ/900 | 3067615 | 3067624 | 3067633 | 3067641 | 8,645 | 9,978 | 10,935 | 13,397 |
| 300 | 300 | ↓ KCA OG300/YD60/Δ/300 | 3067196 | 3067205 | 3067214 | 3067222 | 5,041 | 5,866 | 6,599 | 8,048 |
| | 450 | ↓ KCA OG300/YD60/Δ/450 | 3067336 | 3067345 | 3067354 | 3067362 | 6,312 | 7,274 | 8,143 | 9,863 |
| | 600 | ↓ KCA OG300/YD60/Δ/600 | 3067476 | 3067485 | 3067494 | 3067502 | 7,236 | 8,335 | 9,339 | 11,329 |
| | 900 | ↓ KCA OG300/YD60/Δ/900 | 3067616 | 3067625 | 3067634 | 3067642 | 9,447 | 10,833 | 11,710 | 14,262 |
| 450 | 300 | ↓ KCA OG450/YD60/Δ/300 | 3067197 | 3067206 | 3067215 | 3067223 | 6,428 | 7,333 | 8,133 | 9,717 |
| | 450 | ↓ KCA OG450/YD60/Δ/450 | 3067337 | 3067346 | 3067355 | 3067363 | 7,321 | 8,362 | 9,298 | 11,153 |
| | 600 | ↓ KCA OG450/YD60/Δ/600 | 3067477 | 3067486 | 3067495 | 3067503 | 8,245 | 9,422 | 10,494 | 12,620 |
| | 900 | ↓ KCA OG450/YD60/Δ/900 | 3067617 | 3067626 | 3067635 | 3067643 | 10,641 | 12,106 | 12,865 | 15,552 |
| 600 | 300 | ↓ KCA OG600/YD60/Δ/300 | 3067198 | 3067207 | 3067216 | 3067224 | 7,440 | 8,424 | 9,292 | 11,011 |
| | 450 | ↓ KCA OG600/YD60/Δ/450 | 3067338 | 3067347 | 3067356 | 3067364 | 9,085 | 10,205 | 11,209 | 13,200 |
| | 600 | ↓ KCA OG600/YD60/Δ/600 | 3067478 | 3067487 | 3067496 | 3067504 | 10,008 | 11,265 | 12,405 | 14,666 |
| | 900 | ↓ KCA OG600/YD60/Δ/900 | 3067618 | 3067627 | 3067636 | 3067644 | 12,592 | 14,135 | 14,775 | 17,599 |
| 750 | 300 | ↓ KCA OG750/YD60/Δ/300 | 3067199 | 3067208 | 3067217 | 3067225 | 10,457 | 11,518 | 12,454 | 14,310 |
| | 450 | ↓ KCA OG750/YD60/Δ/450 | 3067339 | 3067348 | 3067357 | 3067365 | 11,348 | 12,548 | 13,619 | 15,745 |
| | 600 | ↓ KCA OG750/YD60/Δ/600 | 3067479 | 3067488 | 3067497 | 3067505 | 12,272 | 13,607 | 14,815 | 17,212 |
| | 900 | ↓ KCA OG750/YD60/Δ/900 | 3067619 | 3067628 | 3067637 | 3067645 | 15,309 | 16,931 | 17,185 | 20,144 |
| 900 | 300 | ↓ KCA OG900/YD60/Δ/300 | 3067200 | 3067209 | 3067218 | 3067226 | 11,866 | 13,008 | 14,011 | 16,002 |
| | 450 | ↓ KCA OG900/YD60/Δ/450 | 3067340 | 3067349 | 3067358 | 3067366 | 12,758 | 14,036 | 15,176 | 17,437 |
| | 600 | ↓ KCA OG900/YD60/Δ/600 | 3067480 | 3067489 | 3067498 | 3067506 | 13,681 | 15,095 | 16,371 | 18,905 |
| | 900 | ↓ KCA OG900/YD60/Δ/900 | 3067620 | 3067629 | 3067638 | 3067646 | 16,958 | 18,659 | 18,742 | 21,836 |
| 1000 | 300 | ↓ KCA OG1000/YD60/Δ/300 | 3067201 | 3067210 | 3067219 | 3067227 | 14,409 | 15,602 | 16,652 | 18,733 |
| | 450 | ↓ KCA OG1000/YD60/Δ/450 | 3067341 | 3067350 | 3067359 | 3067367 | 15,301 | 16,632 | 17,817 | 20,170 |
| | 600 | ↓ KCA OG1000/YD60/Δ/600 | 3067481 | 3067490 | 3067499 | 3067507 | 16,224 | 17,691 | 19,012 | 21,636 |
| | 900 | ↓ KCA OG1000/YD60/Δ/900 | 3067621 | 3067630 | 3067639 | 3067647 | 18,055 | 19,810 | 21,383 | 24,569 |
| 1100 | 300 | ↓ KCA OG1100/YD60/Δ/300 | 3067202 | 3067211 | 3067220 | 3067228 | 15,507 | 16,753 | 17,848 | 20,020 |
| | 450 | ↓ KCA OG1100/YD60/Δ/450 | 3067342 | 3067351 | 3067360 | 3067368 | 16,399 | 17,783 | 19,012 | 21,456 |
| | 600 | ↓ KCA OG1100/YD60/Δ/600 | 3067482 | 3067491 | 3067500 | 3067508 | 17,322 | 18,842 | 20,208 | 22,922 |
| | 900 | ↓ KCA OG1100/YD60/Δ/900 | 3067622 | 3067631 | 3067640 | 3067648 | 19,153 | 20,961 | 22,579 | 25,854 |



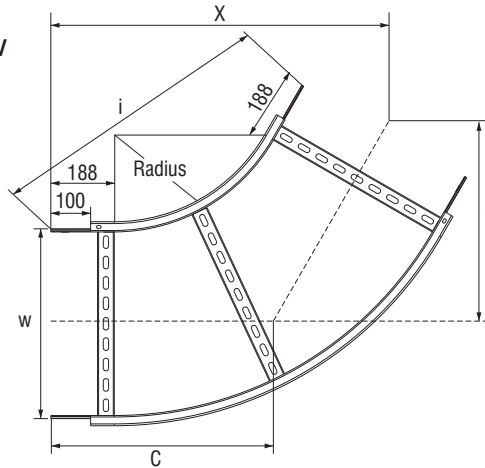
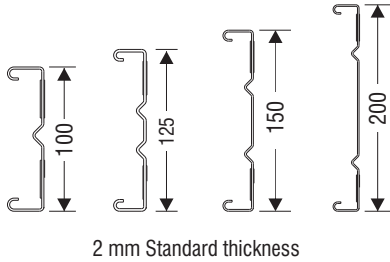
- 16 pcs M10X20 bolt set should be ordered.
- Δ: All products codes and weights given are in kilograms (kg) and are hotdip galvanized (HDG) finish.
- To obtain the appropriate component weight in other finishes, multiply the given weight by the below finish factors.
- Finish factor: HDG (ISO En1461) = (HDG):1 / Stainless Steel = (SS) : 0.94

■ Please indicate order code in your orders.

■ Please contact us for special modules.

■ Material weights may vary by ± 10%

Siderail:



Fitting shown for illustration purposes only. The rung layout shown is typical and will vary on each fitting, depending on width and radius.

| Description | No. of Rungs | Dimensions (mm) | | | |
|-------------------------|--------------|-----------------|-----|------|------|
| | | X | Y | i | C |
| ↓ KCA OG150/YD60/Δ/300 | 2 | 608 | 351 | 625 | 405 |
| ↓ KCA OG150/YD60/Δ/450 | 3 | 738 | 426 | 715 | 492 |
| ↓ KCA OG150/YD60/Δ/600 | 3 | 868 | 502 | 952 | 579 |
| ↓ KCA OG150/YD60/Δ/900 | 4 | 1128 | 651 | 1125 | 752 |
| ↓ KCA OG200/YD60/Δ/300 | 2 | 629 | 363 | 625 | 419 |
| ↓ KCA OG200/YD60/Δ/450 | 3 | 759 | 438 | 715 | 506 |
| ↓ KCA OG200/YD60/Δ/600 | 3 | 889 | 514 | 952 | 593 |
| ↓ KCA OG200/YD60/Δ/900 | 4 | 1149 | 663 | 1125 | 766 |
| ↓ KCA OG300/YD60/Δ/300 | 2 | 672 | 388 | 625 | 448 |
| ↓ KCA OG300/YD60/Δ/450 | 3 | 802 | 463 | 715 | 535 |
| ↓ KCA OG300/YD60/Δ/600 | 3 | 933 | 539 | 952 | 622 |
| ↓ KCA OG300/YD60/Δ/900 | 4 | 1193 | 688 | 1125 | 795 |
| ↓ KCA OG450/YD60/Δ/300 | 2 | 737 | 425 | 625 | 491 |
| ↓ KCA OG450/YD60/Δ/450 | 3 | 867 | 500 | 715 | 578 |
| ↓ KCA OG450/YD60/Δ/600 | 3 | 998 | 577 | 952 | 665 |
| ↓ KCA OG450/YD60/Δ/900 | 4 | 1258 | 726 | 1125 | 838 |
| ↓ KCA OG600/YD60/Δ/300 | 2 | 802 | 463 | 625 | 534 |
| ↓ KCA OG600/YD60/Δ/450 | 3 | 932 | 537 | 715 | 621 |
| ↓ KCA OG600/YD60/Δ/600 | 3 | 1063 | 614 | 952 | 709 |
| ↓ KCA OG600/YD60/Δ/900 | 4 | 1323 | 763 | 1125 | 881 |
| ↓ KCA OG750/YD60/Δ/300 | 2 | 867 | 500 | 625 | 578 |
| ↓ KCA OG750/YD60/Δ/450 | 3 | 997 | 574 | 715 | 665 |
| ↓ KCA OG750/YD60/Δ/600 | 3 | 1128 | 652 | 952 | 752 |
| ↓ KCA OG750/YD60/Δ/900 | 4 | 1388 | 801 | 1125 | 925 |
| ↓ KCA OG900/YD60/Δ/300 | 2 | 932 | 538 | 625 | 621 |
| ↓ KCA OG900/YD60/Δ/450 | 3 | 1061 | 611 | 715 | 708 |
| ↓ KCA OG900/YD60/Δ/600 | 3 | 1193 | 690 | 952 | 795 |
| ↓ KCA OG900/YD60/Δ/900 | 4 | 1453 | 839 | 1125 | 968 |
| ↓ KCA OG1000/YD60/Δ/300 | 2 | 975 | 563 | 625 | 650 |
| ↓ KCA OG1000/YD60/Δ/450 | 3 | 1104 | 636 | 715 | 737 |
| ↓ KCA OG1000/YD60/Δ/600 | 3 | 1236 | 715 | 952 | 824 |
| ↓ KCA OG1000/YD60/Δ/900 | 4 | 1496 | 864 | 1125 | 997 |
| ↓ KCA OG1100/YD60/Δ/300 | 2 | 1019 | 588 | 625 | 679 |
| ↓ KCA OG1100/YD60/Δ/450 | 3 | 1148 | 661 | 715 | 766 |
| ↓ KCA OG1100/YD60/Δ/600 | 3 | 1279 | 740 | 952 | 853 |
| ↓ KCA OG1100/YD60/Δ/900 | 4 | 1540 | 889 | 1125 | 1026 |

■ Please check page “64” for the cover selection.

■ Please indicate order code in your orders.

■ Please contact us for special modules.

■ Material weights may vary by ± 10%



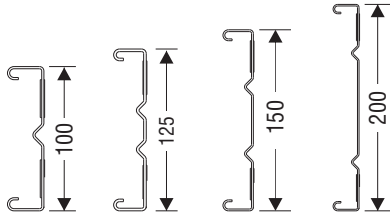
| Width (mm) | Radius (mm) | Description | Code | | | | Weight (kg) | | | |
|------------|-------------|-------------------------|---------|---------|---------|---------|-------------|--------|--------|--------|
| | | | ↓100 | ↓125 | ↓150 | ↓200 | ↓100 | ↓125 | ↓150 | ↓200 |
| 150 | 300 | ↓ KCA OG150/YD90/Δ/300 | 3067229 | 3067238 | 3067247 | | 5,522 | 6,436 | 7,272 | |
| | 450 | ↓ KCA OG150/YD90/Δ/450 | 3067369 | 3067378 | 3067387 | | 6,867 | 7,996 | 9,035 | |
| | 600 | ↓ KCA OG150/YD90/Δ/600 | 3067509 | 3067518 | 3067527 | | 8,433 | 9,778 | 11,021 | |
| | 900 | ↓ KCA OG150/YD90/Δ/900 | 3067649 | 3067658 | 3067667 | | 10,958 | 12,735 | 14,385 | |
| 200 | 300 | ↓ KCA OG200/YD90/Δ/300 | 3067230 | 3067239 | 3067248 | 3067256 | 5,933 | 6,886 | 7,756 | 8,487 |
| | 450 | ↓ KCA OG200/YD90/Δ/450 | 3067370 | 3067379 | 3067388 | 3067396 | 7,277 | 8,446 | 9,519 | 11,666 |
| | 600 | ↓ KCA OG200/YD90/Δ/600 | 3067510 | 3067519 | 3067528 | 3067536 | 8,905 | 10,289 | 11,567 | 14,120 |
| | 900 | ↓ KCA OG200/YD90/Δ/900 | 3067650 | 3067659 | 3067668 | 3067676 | 11,877 | 13,692 | 15,376 | 18,743 |
| 300 | 300 | ↓ KCA OG300/YD90/Δ/300 | 3067231 | 3067240 | 3067249 | 3067257 | 6,761 | 7,792 | 8,730 | 10,606 |
| | 450 | ↓ KCA OG300/YD90/Δ/450 | 3067371 | 3067380 | 3067389 | 3067397 | 8,104 | 9,351 | 10,493 | 12,774 |
| | 600 | ↓ KCA OG300/YD90/Δ/600 | 3067511 | 3067520 | 3067529 | 3067537 | 9,857 | 11,321 | 12,665 | 15,354 |
| | 900 | ↓ KCA OG300/YD90/Δ/900 | 3067651 | 3067660 | 3067669 | 3067677 | 12,954 | 14,849 | 16,600 | 20,103 |
| 450 | 300 | ↓ KCA OG450/YD90/Δ/300 | 3067232 | 3067241 | 3067250 | 3067258 | 8,559 | 9,710 | 10,749 | 12,828 |
| | 450 | ↓ KCA OG450/YD90/Δ/450 | 3067372 | 3067381 | 3067390 | 3067398 | 9,903 | 11,270 | 12,513 | 14,997 |
| | 600 | ↓ KCA OG450/YD90/Δ/600 | 3067512 | 3067521 | 3067530 | 3067538 | 11,276 | 12,859 | 14,306 | 17,197 |
| | 900 | ↓ KCA OG450/YD90/Δ/900 | 3067652 | 3067661 | 3067670 | 3067678 | 15,125 | 17,138 | 18,992 | 22,697 |
| 600 | 300 | ↓ KCA OG600/YD90/Δ/300 | 3067233 | 3067242 | 3067251 | 3067259 | 9,984 | 11,253 | 12,394 | 14,676 |
| | 450 | ↓ KCA OG600/YD90/Δ/450 | 3067373 | 3067382 | 3067391 | 3067399 | 12,079 | 13,564 | 14,909 | 17,598 |
| | 600 | ↓ KCA OG600/YD90/Δ/600 | 3067513 | 3067522 | 3067531 | 3067539 | 13,452 | 15,154 | 16,701 | 19,797 |
| | 900 | ↓ KCA OG600/YD90/Δ/900 | 3067653 | 3067662 | 3067671 | 3067679 | 16,922 | 19,075 | 21,009 | 24,918 |
| 750 | 300 | ↓ KCA OG750/YD90/Δ/300 | 3067234 | 3067243 | 3067252 | 3067260 | 13,677 | 15,066 | 16,309 | 18,795 |
| | 450 | ↓ KCA OG750/YD90/Δ/450 | 3067374 | 3067383 | 3067392 | 3067400 | 15,021 | 16,624 | 18,071 | 20,963 |
| | 600 | ↓ KCA OG750/YD90/Δ/600 | 3067514 | 3067523 | 3067532 | 3067540 | 16,394 | 18,214 | 19,864 | 23,163 |
| | 900 | ↓ KCA OG750/YD90/Δ/900 | 3067654 | 3067663 | 3067672 | 3067680 | 20,317 | 22,568 | 24,625 | 28,738 |
| 900 | 300 | ↓ KCA OG900/YD90/Δ/300 | 3067235 | 3067244 | 3067253 | 3067261 | 15,552 | 17,059 | 18,403 | 21,093 |
| | 450 | ↓ KCA OG900/YD90/Δ/450 | 3067375 | 3067384 | 3067393 | 3067401 | 16,896 | 18,618 | 20,166 | 23,262 |
| | 600 | ↓ KCA OG900/YD90/Δ/600 | 3067515 | 3067524 | 3067533 | 3067541 | 18,269 | 20,228 | 21,958 | 25,461 |
| | 900 | ↓ KCA OG900/YD90/Δ/900 | 3067655 | 3067664 | 3067673 | 3067681 | 22,432 | 24,801 | 26,959 | 31,275 |
| 1000 | 300 | ↓ KCA OG1000/YD90/Δ/300 | 3067236 | 3067245 | 3067254 | 3067262 | 16,800 | 18,385 | 19,798 | 22,624 |
| | 450 | ↓ KCA OG1000/YD90/Δ/450 | 3067376 | 3067385 | 3067394 | 3067402 | 19,748 | 21,549 | 23,166 | 26,397 |
| | 600 | ↓ KCA OG1000/YD90/Δ/600 | 3067516 | 3067525 | 3067534 | 3067542 | 21,122 | 23,139 | 24,958 | 28,597 |
| | 900 | ↓ KCA OG1000/YD90/Δ/900 | 3067656 | 3067665 | 3067674 | 3067682 | 23,839 | 26,287 | 28,513 | 32,966 |
| 1100 | 300 | ↓ KCA OG1100/YD90/Δ/300 | 3067237 | 3067246 | 3067255 | 3067263 | 19,813 | 21,478 | 22,957 | 25,918 |
| | 450 | ↓ KCA OG1100/YD90/Δ/450 | 3067377 | 3067386 | 3067395 | 3067403 | 21,156 | 23,036 | 24,720 | 28,086 |
| | 600 | ↓ KCA OG1100/YD90/Δ/600 | 3067517 | 3067526 | 3067535 | 3067543 | 22,529 | 24,626 | 26,512 | 30,286 |
| | 900 | ↓ KCA OG1100/YD90/Δ/900 | 3067657 | 3067666 | 3067675 | 3067683 | 27,012 | 29,538 | 31,832 | 36,420 |



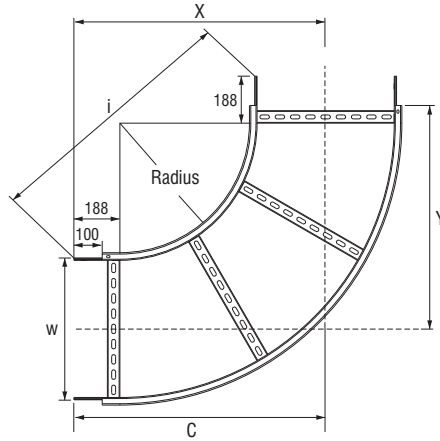
- 16 pcs M10X20 bolt set should be ordered.
- Δ: All products codes and weights given are in kilograms (kg) and are hotdip galvanized (HDG) finish.
- To obtain the appropriate component weight in other finishes, multiply the given weight by the below finish factors.
- Finish factor: HDG (ISO En1461) = (HDG):1 / Stainless Steel = (SS) : 0.94

■ Please indicate order code in your orders. ■ Please contact us for special modules. ■ Material weights may vary by ± 10%

Siderail:



2 mm Standard thickness



Fitting shown for illustration purposes only. The rung layout shown is typical and will vary on each fitting, depending on width and radius.

| Description | No. of Rungs | Dimensions (mm) | | | |
|-------------------------|--------------|-----------------|------|------|------|
| | | X | Y | i | C |
| ↓ KCA OG150/YD90/Δ/300 | 3 | 565 | 565 | 690 | 565 |
| ↓ KCA OG150/YD90/Δ/450 | 4 | 715 | 715 | 902 | 715 |
| ↓ KCA OG150/YD90/Δ/600 | 4 | 865 | 865 | 1114 | 865 |
| ↓ KCA OG150/YD90/Δ/900 | 5 | 1165 | 1165 | 1538 | 1165 |
| ↓ KCA OG200/YD90/Δ/300 | 3 | 590 | 590 | 690 | 590 |
| ↓ KCA OG200/YD90/Δ/450 | 4 | 740 | 740 | 902 | 740 |
| ↓ KCA OG200/YD90/Δ/600 | 4 | 890 | 890 | 1114 | 890 |
| ↓ KCA OG200/YD90/Δ/900 | 5 | 1190 | 1190 | 1538 | 1190 |
| ↓ KCA OG300/YD90/Δ/300 | 3 | 640 | 640 | 690 | 640 |
| ↓ KCA OG300/YD90/Δ/450 | 4 | 790 | 790 | 902 | 790 |
| ↓ KCA OG300/YD90/Δ/600 | 4 | 940 | 940 | 1114 | 940 |
| ↓ KCA OG300/YD90/Δ/900 | 5 | 1240 | 1240 | 1538 | 1240 |
| ↓ KCA OG450/YD90/Δ/300 | 3 | 715 | 715 | 690 | 715 |
| ↓ KCA OG450/YD90/Δ/450 | 4 | 865 | 865 | 902 | 865 |
| ↓ KCA OG450/YD90/Δ/600 | 4 | 1015 | 1015 | 1114 | 1015 |
| ↓ KCA OG450/YD90/Δ/900 | 5 | 1315 | 1315 | 1538 | 1315 |
| ↓ KCA OG600/YD90/Δ/300 | 3 | 790 | 790 | 690 | 1465 |
| ↓ KCA OG600/YD90/Δ/450 | 4 | 940 | 940 | 902 | 1660 |
| ↓ KCA OG600/YD90/Δ/600 | 4 | 1090 | 1090 | 1114 | 1855 |
| ↓ KCA OG600/YD90/Δ/900 | 5 | 1390 | 1390 | 1538 | 2050 |
| ↓ KCA OG750/YD90/Δ/300 | 3 | 865 | 865 | 690 | 865 |
| ↓ KCA OG750/YD90/Δ/450 | 4 | 1015 | 1015 | 902 | 1015 |
| ↓ KCA OG750/YD90/Δ/600 | 4 | 1165 | 1165 | 1114 | 1165 |
| ↓ KCA OG750/YD90/Δ/900 | 5 | 1465 | 1465 | 1538 | 1465 |
| ↓ KCA OG900/YD90/Δ/300 | 3 | 940 | 940 | 690 | 940 |
| ↓ KCA OG900/YD90/Δ/450 | 4 | 1090 | 1090 | 902 | 1090 |
| ↓ KCA OG900/YD90/Δ/600 | 4 | 1240 | 1240 | 1114 | 1240 |
| ↓ KCA OG900/YD90/Δ/900 | 5 | 1540 | 1540 | 1538 | 1540 |
| ↓ KCA OG1000/YD90/Δ/300 | 3 | 990 | 990 | 690 | 990 |
| ↓ KCA OG1000/YD90/Δ/450 | 4 | 1140 | 1140 | 902 | 1140 |
| ↓ KCA OG1000/YD90/Δ/600 | 4 | 1290 | 1290 | 1114 | 1290 |
| ↓ KCA OG1000/YD90/Δ/900 | 5 | 1590 | 1590 | 1538 | 1590 |
| ↓ KCA OG1100/YD90/Δ/300 | 3 | 1040 | 1040 | 690 | 1040 |
| ↓ KCA OG1100/YD90/Δ/450 | 4 | 1190 | 1190 | 902 | 1190 |
| ↓ KCA OG1100/YD90/Δ/600 | 4 | 1340 | 1340 | 1114 | 1340 |
| ↓ KCA OG1100/YD90/Δ/900 | 5 | 1640 | 1640 | 1538 | 1640 |

■ Please check page “65” for the cover selection.

■ Please indicate order code in your orders.

■ Please contact us for special modules.

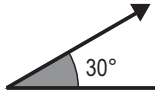
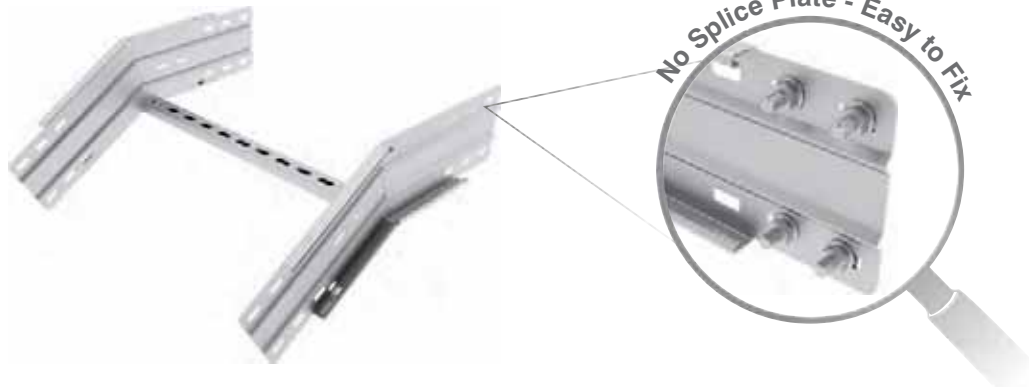
■ Material weights may vary by ± 10%

►► Fittings DD30 Vertical Outside Elbow

DD30



Fitting shown for illustration purposes only. The rung layout shown is typical and will vary on each fitting, depending on width and radius.



| Width (mm) | Radius (mm) | Description | Code | | | | Weight (kg) | | | |
|------------|-------------|-------------------------|---------|---------|---------|---------|-------------|-------|--------|--------|
| | | | ↓100 | ↓125 | ↓150 | ↓200 | ↓100 | ↓125 | ↓150 | ↓200 |
| 150 | 300 | ↓ KCA OG150/DD30/Δ/300 | 3068244 | 3068253 | 3068262 | | 2,151 | 2,687 | 3,145 | |
| | 450 | ↓ KCA OG150/DD30/Δ/450 | 3068384 | 3068393 | 3068402 | | 2,615 | 3,185 | 3,682 | |
| | 600 | ↓ KCA OG150/DD30/Δ/600 | 3068524 | 3068533 | 3068542 | | 2,973 | 3,603 | 4,282 | |
| | 900 | ↓ KCA OG150/DD30/Δ/900 | 3068664 | 3068673 | 3068682 | | 4,245 | 5,175 | 5,488 | |
| 200 | 300 | ↓ KCA OG200/DD30/Δ/300 | 3068245 | 3068254 | 3068263 | 3068271 | 2,212 | 2,749 | 3,207 | 4,170 |
| | 450 | ↓ KCA OG200/DD30/Δ/450 | 3068385 | 3068394 | 3068403 | 3068411 | 2,676 | 3,246 | 3,743 | 4,806 |
| | 600 | ↓ KCA OG200/DD30/Δ/600 | 3068525 | 3068534 | 3068543 | 3068551 | 3,035 | 3,664 | 4,344 | 5,613 |
| | 900 | ↓ KCA OG200/DD30/Δ/900 | 3068665 | 3068674 | 3068683 | 3068691 | 4,430 | 5,360 | 5,673 | 7,472 |
| 300 | 300 | ↓ KCA OG300/DD30/Δ/300 | 3068246 | 3068255 | 3068264 | 3068272 | 2,338 | 2,874 | 3,332 | 4,296 |
| | 450 | ↓ KCA OG300/DD30/Δ/450 | 3068386 | 3068395 | 3068404 | 3068412 | 2,802 | 3,372 | 3,869 | 4,931 |
| | 600 | ↓ KCA OG300/DD30/Δ/600 | 3068526 | 3068535 | 3068544 | 3068552 | 3,160 | 3,790 | 4,469 | 5,739 |
| | 900 | ↓ KCA OG300/DD30/Δ/900 | 3068666 | 3068675 | 3068684 | 3068692 | 4,806 | 5,736 | 6,049 | 7,849 |
| 450 | 300 | ↓ KCA OG450/DD30/Δ/300 | 3068247 | 3068256 | 3068265 | 3068273 | 2,523 | 3,060 | 3,518 | 4,481 |
| | 450 | ↓ KCA OG450/DD30/Δ/450 | 3068387 | 3068396 | 3068405 | 3068413 | 2,988 | 3,557 | 4,055 | 5,117 |
| | 600 | ↓ KCA OG450/DD30/Δ/600 | 3068527 | 3068536 | 3068545 | 3068553 | 3,346 | 3,975 | 4,655 | 5,925 |
| | 900 | ↓ KCA OG450/DD30/Δ/900 | 3068667 | 3068676 | 3068685 | 3068693 | 5,364 | 6,294 | 6,607 | 8,406 |
| 600 | 300 | ↓ KCA OG600/DD30/Δ/300 | 3068248 | 3068257 | 3068266 | 3068274 | 2,710 | 3,247 | 3,705 | 4,668 |
| | 450 | ↓ KCA OG600/DD30/Δ/450 | 3068388 | 3068397 | 3068406 | 3068414 | 3,175 | 3,744 | 4,242 | 5,304 |
| | 600 | ↓ KCA OG600/DD30/Δ/600 | 3068528 | 3068537 | 3068546 | 3068554 | 3,533 | 4,162 | 4,842 | 6,112 |
| | 900 | ↓ KCA OG600/DD30/Δ/900 | 3068668 | 3068677 | 3068686 | 3068694 | 5,925 | 6,855 | 7,168 | 8,967 |
| 750 | 300 | ↓ KCA OG750/DD30/Δ/300 | 3068249 | 3068258 | 3068267 | 3068275 | 3,164 | 3,700 | 4,158 | 5,122 |
| | 450 | ↓ KCA OG750/DD30/Δ/450 | 3068389 | 3068398 | 3068407 | 3068415 | 3,628 | 4,198 | 4,695 | 5,757 |
| | 600 | ↓ KCA OG750/DD30/Δ/600 | 3068529 | 3068538 | 3068547 | 3068555 | 3,986 | 4,616 | 5,295 | 6,565 |
| | 900 | ↓ KCA OG750/DD30/Δ/900 | 3068669 | 3068678 | 3068687 | 3068695 | 7,284 | 8,214 | 8,527 | 10,327 |
| 900 | 300 | ↓ KCA OG900/DD30/Δ/300 | 3068250 | 3068259 | 3068268 | 3068276 | 3,403 | 3,940 | 4,398 | 5,361 |
| | 450 | ↓ KCA OG900/DD30/Δ/450 | 3068390 | 3068399 | 3068408 | 3068416 | 3,868 | 4,437 | 4,935 | 5,997 |
| | 600 | ↓ KCA OG900/DD30/Δ/600 | 3068530 | 3068539 | 3068548 | 3068556 | 4,226 | 4,855 | 5,535 | 6,805 |
| | 900 | ↓ KCA OG900/DD30/Δ/900 | 3068670 | 3068679 | 3068688 | 3068696 | 8,004 | 8,934 | 9,247 | 11,046 |
| 1000 | 300 | ↓ KCA OG1000/DD30/Δ/300 | 3068251 | 3068260 | 3068269 | 3068277 | 3,563 | 4,100 | 4,557 | 5,521 |
| | 450 | ↓ KCA OG1000/DD30/Δ/450 | 3068391 | 3068400 | 3068409 | 3068417 | 4,027 | 4,597 | 5,094 | 6,157 |
| | 600 | ↓ KCA OG1000/DD30/Δ/600 | 3068531 | 3068540 | 3068549 | 3068557 | 4,386 | 5,015 | 5,695 | 6,964 |
| | 900 | ↓ KCA OG1000/DD30/Δ/900 | 3068671 | 3068680 | 3068689 | 3068697 | 8,482 | 9,412 | 9,725 | 11,525 |
| 1100 | 300 | ↓ KCA OG1100/DD30/Δ/300 | 3068252 | 3068261 | 3068270 | 3068278 | 3,722 | 4,259 | 4,717 | 5,680 |
| | 450 | ↓ KCA OG1100/DD30/Δ/450 | 3068392 | 3068401 | 3068410 | 3068418 | 4,187 | 4,756 | 5,254 | 6,316 |
| | 600 | ↓ KCA OG1100/DD30/Δ/600 | 3068532 | 3068541 | 3068550 | 3068558 | 4,545 | 5,174 | 5,854 | 7,124 |
| | 900 | ↓ KCA OG1100/DD30/Δ/900 | 3068672 | 3068681 | 3068690 | 3068698 | 9,093 | 9,891 | 10,204 | 12,003 |



- 16 pcs M10X20 bolt set should be ordered.
- Δ: All products codes and weights given are in kilograms (kg) and are hotdip galvanized (HDG) finish.
- To obtain the appropriate component weight in other finishes, multiply the given weight by the below finish factors.
- Finish factor: HDG (ISO En1461) = (HDG):1 / Stainless Steel = (SS) : 0.94

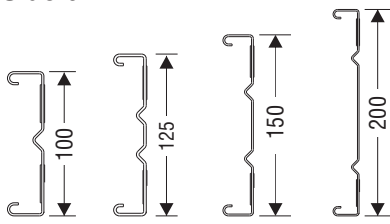
■ Please indicate order code in your orders.

■ Please contact us for special modules.

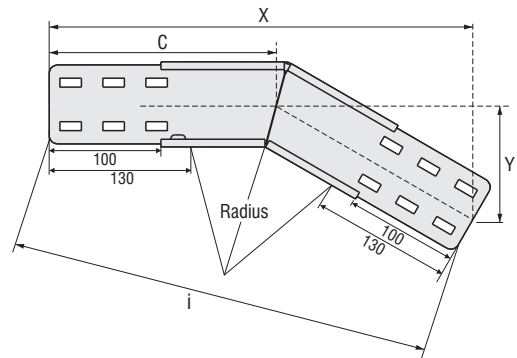
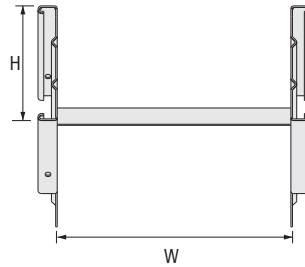
■ Material weights may vary by ± 10%

►► Fittings DD30 Vertical Outside Elbow

Siderail:



2 mm Standard thickness



| No. of Rungs | ↓100 / Dimensions (mm) | | | | ↓125 / Dimensions (mm) | | | | ↓150 / Dimensions (mm) | | | | ↓200 / Dimensions (mm) | | | |
|--------------|------------------------|-----|-----|-----|------------------------|-----|-----|-----|------------------------|-----|-----|-----|------------------------|-----|-----|-----|
| | X | Y | i | C | X | Y | i | C | X | Y | i | C | X | Y | i | C |
| 1 | 417 | 112 | 406 | 224 | 423 | 113 | 406 | 226 | 429 | 115 | 406 | 230 | 441 | 118 | 406 | 236 |
| 1 | 494 | 132 | 485 | 264 | 500 | 134 | 485 | 268 | 505 | 135 | 485 | 270 | 518 | 138 | 485 | 278 |
| 1 | 567 | 152 | 561 | 304 | 573 | 154 | 561 | 307 | 579 | 155 | 561 | 310 | 592 | 158 | 561 | 317 |
| 3 | 717 | 192 | 717 | 384 | 724 | 194 | 717 | 388 | 729 | 196 | 717 | 390 | 742 | 198 | 717 | 398 |
| 1 | 417 | 112 | 406 | 224 | 423 | 113 | 406 | 226 | 429 | 115 | 406 | 230 | 441 | 118 | 406 | 236 |
| 1 | 494 | 132 | 485 | 264 | 500 | 134 | 485 | 268 | 505 | 135 | 485 | 270 | 518 | 138 | 485 | 278 |
| 1 | 567 | 152 | 561 | 304 | 573 | 154 | 561 | 307 | 579 | 155 | 561 | 310 | 592 | 158 | 561 | 317 |
| 3 | 717 | 192 | 717 | 384 | 724 | 194 | 717 | 388 | 729 | 196 | 717 | 390 | 742 | 198 | 717 | 398 |
| 1 | 417 | 112 | 406 | 224 | 423 | 113 | 406 | 226 | 429 | 115 | 406 | 230 | 441 | 118 | 406 | 236 |
| 1 | 494 | 132 | 485 | 264 | 500 | 134 | 485 | 268 | 505 | 135 | 485 | 270 | 518 | 138 | 485 | 278 |
| 1 | 567 | 152 | 561 | 304 | 573 | 154 | 561 | 307 | 579 | 155 | 561 | 310 | 592 | 158 | 561 | 317 |
| 3 | 717 | 192 | 717 | 384 | 724 | 194 | 717 | 388 | 729 | 196 | 717 | 390 | 742 | 198 | 717 | 398 |
| 1 | 417 | 112 | 406 | 224 | 423 | 113 | 406 | 226 | 429 | 115 | 406 | 230 | 441 | 118 | 406 | 236 |
| 1 | 494 | 132 | 485 | 264 | 500 | 134 | 485 | 268 | 505 | 135 | 485 | 270 | 518 | 138 | 485 | 278 |
| 1 | 567 | 152 | 561 | 304 | 573 | 154 | 561 | 307 | 579 | 155 | 561 | 310 | 592 | 158 | 561 | 317 |
| 3 | 717 | 192 | 717 | 384 | 724 | 194 | 717 | 388 | 729 | 196 | 717 | 390 | 742 | 198 | 717 | 398 |
| 1 | 417 | 112 | 406 | 224 | 423 | 113 | 406 | 226 | 429 | 115 | 406 | 230 | 441 | 118 | 406 | 236 |
| 1 | 494 | 132 | 485 | 264 | 500 | 134 | 485 | 268 | 505 | 135 | 485 | 270 | 518 | 138 | 485 | 278 |
| 1 | 567 | 152 | 561 | 304 | 573 | 154 | 561 | 307 | 579 | 155 | 561 | 310 | 592 | 158 | 561 | 317 |
| 3 | 717 | 192 | 717 | 384 | 724 | 194 | 717 | 388 | 729 | 196 | 717 | 390 | 742 | 198 | 717 | 398 |
| 1 | 417 | 112 | 406 | 224 | 423 | 113 | 406 | 226 | 429 | 115 | 406 | 230 | 441 | 118 | 406 | 236 |
| 1 | 494 | 132 | 485 | 264 | 500 | 134 | 485 | 268 | 505 | 135 | 485 | 270 | 518 | 138 | 485 | 278 |
| 1 | 567 | 152 | 561 | 304 | 573 | 154 | 561 | 307 | 579 | 155 | 561 | 310 | 592 | 158 | 561 | 317 |
| 3 | 717 | 192 | 717 | 384 | 724 | 194 | 717 | 388 | 729 | 196 | 717 | 390 | 742 | 198 | 717 | 398 |
| 1 | 417 | 112 | 406 | 224 | 423 | 113 | 406 | 226 | 429 | 115 | 406 | 230 | 441 | 118 | 406 | 236 |
| 1 | 494 | 132 | 485 | 264 | 500 | 134 | 485 | 268 | 505 | 135 | 485 | 270 | 518 | 138 | 485 | 278 |
| 1 | 567 | 152 | 561 | 304 | 573 | 154 | 561 | 307 | 579 | 155 | 561 | 310 | 592 | 158 | 561 | 317 |
| 3 | 717 | 192 | 717 | 384 | 724 | 194 | 717 | 388 | 729 | 196 | 717 | 390 | 742 | 198 | 717 | 398 |
| 1 | 417 | 112 | 406 | 224 | 423 | 113 | 406 | 226 | 429 | 115 | 406 | 230 | 441 | 118 | 406 | 236 |
| 1 | 494 | 132 | 485 | 264 | 500 | 134 | 485 | 268 | 505 | 135 | 485 | 270 | 518 | 138 | 485 | 278 |
| 1 | 567 | 152 | 561 | 304 | 573 | 154 | 561 | 307 | 579 | 155 | 561 | 310 | 592 | 158 | 561 | 317 |
| 3 | 717 | 192 | 717 | 384 | 724 | 194 | 717 | 388 | 729 | 196 | 717 | 390 | 742 | 198 | 717 | 398 |
| 1 | 417 | 112 | 406 | 224 | 423 | 113 | 406 | 226 | 429 | 115 | 406 | 230 | 441 | 118 | 406 | 236 |
| 1 | 494 | 132 | 485 | 264 | 500 | 134 | 485 | 268 | 505 | 135 | 485 | 270 | 518 | 138 | 485 | 278 |
| 1 | 567 | 152 | 561 | 304 | 573 | 154 | 561 | 307 | 579 | 155 | 561 | 310 | 592 | 158 | 561 | 317 |
| 3 | 717 | 192 | 717 | 384 | 724 | 194 | 717 | 388 | 729 | 196 | 717 | 390 | 742 | 198 | 717 | 398 |

■ Please check page “66” for the cover selection.

■ Please indicate order code in your orders.

■ Please contact us for special modules.

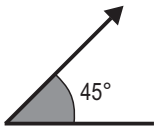
■ Material weights may vary by ± 10%

►► Fittings DD45 Vertical Outside Elbow

DD45



Fitting shown for illustration purposes only. The rung layout shown is typical and will vary on each fitting, depending on width and radius.



| Width (mm) | Radius (mm) | Description | Code | | | | Weight (kg) | | | |
|------------|-------------|-------------------------|---------|---------|---------|---------|-------------|--------|--------|--------|
| | | | ↓100 | ↓125 | ↓150 | ↓200 | ↓100 | ↓125 | ↓150 | ↓200 |
| 150 | 300 | ↓ KCA OG150/DD45/Δ/300 | 3068279 | 3068288 | 3068297 | | 2,723 | 3,325 | 3,880 | |
| | 450 | ↓ KCA OG150/DD45/Δ/450 | 3068419 | 3068428 | 3068437 | | 3,639 | 4,369 | 5,036 | |
| | 600 | ↓ KCA OG150/DD45/Δ/600 | 3068559 | 3068568 | 3068577 | | 4,301 | 5,203 | 6,004 | |
| | 900 | ↓ KCA OG150/DD45/Δ/900 | 3068699 | 3068708 | 3068717 | | 5,970 | 7,076 | 8,060 | |
| 200 | 300 | ↓ KCA OG200/DD45/Δ/300 | 3068280 | 3068289 | 3068298 | 3068306 | 2,784 | 3,387 | 3,941 | 5,118 |
| | 450 | ↓ KCA OG200/DD45/Δ/450 | 3068420 | 3068429 | 3068438 | 3068446 | 3,762 | 4,492 | 5,159 | 6,554 |
| | 600 | ↓ KCA OG200/DD45/Δ/600 | 3068560 | 3068569 | 3068578 | 3068586 | 4,424 | 5,326 | 6,127 | 7,700 |
| | 900 | ↓ KCA OG200/DD45/Δ/900 | 3068700 | 3068709 | 3068718 | 3068726 | 6,155 | 7,261 | 8,245 | 10,280 |
| 300 | 300 | ↓ KCA OG300/DD45/Δ/300 | 3068281 | 3068290 | 3068299 | 3068307 | 2,910 | 3,512 | 4,067 | 5,244 |
| | 450 | ↓ KCA OG300/DD45/Δ/450 | 3068421 | 3068430 | 3068439 | 3068447 | 4,013 | 4,743 | 5,410 | 6,805 |
| | 600 | ↓ KCA OG300/DD45/Δ/600 | 3068561 | 3068570 | 3068579 | 3068587 | 4,675 | 5,577 | 6,378 | 7,951 |
| | 900 | ↓ KCA OG300/DD45/Δ/900 | 3068701 | 3068710 | 3068719 | 3068727 | 6,531 | 7,637 | 8,621 | 10,656 |
| 450 | 300 | ↓ KCA OG450/DD45/Δ/300 | 3068282 | 3068291 | 3068300 | 3068308 | 3,095 | 3,698 | 4,253 | 5,430 |
| | 450 | ↓ KCA OG450/DD45/Δ/450 | 3068422 | 3068431 | 3068440 | 3068448 | 4,385 | 5,115 | 5,782 | 7,176 |
| | 600 | ↓ KCA OG450/DD45/Δ/600 | 3068562 | 3068571 | 3068580 | 3068588 | 5,047 | 5,949 | 6,750 | 8,323 |
| | 900 | ↓ KCA OG450/DD45/Δ/900 | 3068702 | 3068711 | 3068720 | 3068728 | 7,088 | 8,195 | 9,178 | 11,213 |
| 600 | 300 | ↓ KCA OG600/DD45/Δ/300 | 3068283 | 3068292 | 3068301 | 3068309 | 3,282 | 3,885 | 4,440 | 5,617 |
| | 450 | ↓ KCA OG600/DD45/Δ/450 | 3068423 | 3068432 | 3068441 | 3068449 | 4,759 | 5,489 | 6,156 | 7,550 |
| | 600 | ↓ KCA OG600/DD45/Δ/600 | 3068563 | 3068572 | 3068581 | 3068589 | 5,421 | 6,323 | 7,124 | 8,697 |
| | 900 | ↓ KCA OG600/DD45/Δ/900 | 3068703 | 3068712 | 3068721 | 3068729 | 7,649 | 8,756 | 9,739 | 11,774 |
| 750 | 300 | ↓ KCA OG750/DD45/Δ/300 | 3068284 | 3068293 | 3068302 | 3068310 | 3,736 | 4,338 | 4,893 | 6,070 |
| | 450 | ↓ KCA OG750/DD45/Δ/450 | 3068424 | 3068433 | 3068442 | 3068450 | 5,665 | 6,395 | 7,062 | 8,457 |
| | 600 | ↓ KCA OG750/DD45/Δ/600 | 3068564 | 3068573 | 3068582 | 3068590 | 6,327 | 7,229 | 8,030 | 9,603 |
| | 900 | ↓ KCA OG750/DD45/Δ/900 | 3068704 | 3068713 | 3068722 | 3068730 | 9,009 | 10,116 | 11,099 | 13,134 |
| 900 | 300 | ↓ KCA OG900/DD45/Δ/300 | 3068285 | 3068294 | 3068303 | 3068311 | 3,975 | 4,578 | 5,133 | 6,310 |
| | 450 | ↓ KCA OG900/DD45/Δ/450 | 3068425 | 3068434 | 3068443 | 3068451 | 6,145 | 6,875 | 7,542 | 8,936 |
| | 600 | ↓ KCA OG900/DD45/Δ/600 | 3068565 | 3068574 | 3068583 | 3068591 | 6,807 | 7,709 | 8,510 | 10,083 |
| | 900 | ↓ KCA OG900/DD45/Δ/900 | 3068705 | 3068714 | 3068723 | 3068731 | 9,728 | 10,835 | 11,818 | 13,853 |
| 1000 | 300 | ↓ KCA OG1000/DD45/Δ/300 | 3068286 | 3068295 | 3068304 | 3068312 | 4,135 | 4,738 | 5,292 | 6,469 |
| | 450 | ↓ KCA OG1000/DD45/Δ/450 | 3068426 | 3068435 | 3068444 | 3068452 | 6,464 | 7,194 | 7,861 | 9,255 |
| | 600 | ↓ KCA OG1000/DD45/Δ/600 | 3068566 | 3068575 | 3068584 | 3068592 | 7,126 | 8,028 | 8,829 | 10,402 |
| | 900 | ↓ KCA OG1000/DD45/Δ/900 | 3068706 | 3068715 | 3068724 | 3068732 | 10,207 | 11,314 | 12,297 | 14,332 |
| 1100 | 300 | ↓ KCA OG1100/DD45/Δ/300 | 3068287 | 3068296 | 3068305 | 3068313 | 4,294 | 4,897 | 5,452 | 6,629 |
| | 450 | ↓ KCA OG1100/DD45/Δ/450 | 3068427 | 3068436 | 3068445 | 3068453 | 6,783 | 7,513 | 8,180 | 9,574 |
| | 600 | ↓ KCA OG1100/DD45/Δ/600 | 3068567 | 3068576 | 3068585 | 3068593 | 7,445 | 8,347 | 9,148 | 10,721 |
| | 900 | ↓ KCA OG1100/DD45/Δ/900 | 3068707 | 3068716 | 3068725 | 3068733 | 10,685 | 11,792 | 12,775 | 14,810 |



- 16 pcs M10X20 bolt set should be ordered.
- Δ: All products codes and weights given are in kilograms (kg) and are hotdip galvanized (HDG) finish.
- To obtain the appropriate component weight in other finishes, multiply the given weight by the below finish factors.
- Finish factor: HDG (ISO En1461) = (HDG):1 / Stainless Steel = (SS) : 0.94

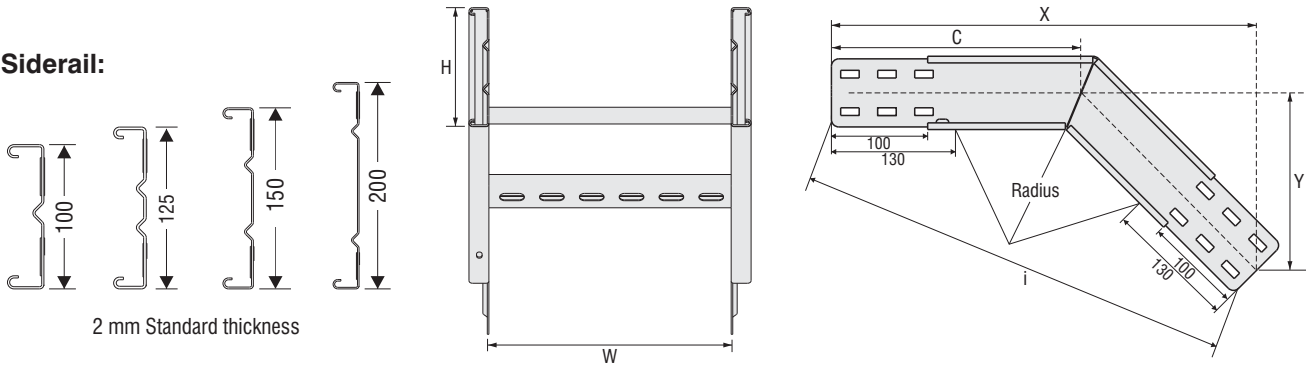
■ Please indicate order code in your orders.

■ Please contact us for special modules.

■ Material weights may vary by ± 10%

►► Fittings DD45 Vertical Outside Elbow

Siderail:



2 mm Standard thickness

| No. of Rungs | ↓100 / Dimensions (mm) | | | | ↓125 / Dimensions (mm) | | | | ↓150 / Dimensions (mm) | | | | ↓200 / Dimensions (mm) | | | |
|--------------|------------------------|-----|-----|-----|------------------------|-----|-----|-----|------------------------|-----|-----|-----|------------------------|-----|-----|-----|
| | X | Y | i | C | X | Y | i | C | X | Y | i | C | X | Y | i | C |
| 1 | 468 | 193 | 468 | 274 | 477 | 198 | 468 | 279 | 485 | 201 | 468 | 284 | 503 | 208 | 468 | 295 |
| 2 | 575 | 238 | 585 | 337 | 584 | 242 | 585 | 342 | 593 | 245 | 585 | 347 | 611 | 253 | 585 | 358 |
| 2 | 680 | 282 | 698 | 398 | 690 | 286 | 699 | 404 | 698 | 289 | 699 | 409 | 716 | 297 | 699 | 419 |
| 3 | 893 | 370 | 928 | 523 | 902 | 373 | 928 | 528 | 910 | 377 | 928 | 533 | 928 | 384 | 928 | 543 |
| 1 | 468 | 193 | 468 | 274 | 477 | 198 | 468 | 279 | 485 | 201 | 468 | 284 | 503 | 208 | 468 | 295 |
| 2 | 575 | 238 | 585 | 337 | 584 | 242 | 585 | 342 | 593 | 245 | 585 | 347 | 611 | 253 | 585 | 358 |
| 2 | 680 | 282 | 698 | 398 | 690 | 286 | 699 | 404 | 698 | 289 | 699 | 409 | 716 | 297 | 699 | 419 |
| 3 | 893 | 370 | 928 | 523 | 902 | 373 | 928 | 528 | 910 | 377 | 928 | 533 | 928 | 384 | 928 | 543 |
| 1 | 468 | 193 | 468 | 274 | 477 | 198 | 468 | 279 | 485 | 201 | 468 | 284 | 503 | 208 | 468 | 295 |
| 2 | 575 | 238 | 585 | 337 | 584 | 242 | 585 | 342 | 593 | 245 | 585 | 347 | 611 | 253 | 585 | 358 |
| 2 | 680 | 282 | 698 | 398 | 690 | 286 | 699 | 404 | 698 | 289 | 699 | 409 | 716 | 297 | 699 | 419 |
| 3 | 893 | 370 | 928 | 523 | 902 | 373 | 928 | 528 | 910 | 377 | 928 | 533 | 928 | 384 | 928 | 543 |
| 1 | 468 | 193 | 468 | 274 | 477 | 198 | 468 | 279 | 485 | 201 | 468 | 284 | 503 | 208 | 468 | 295 |
| 2 | 575 | 238 | 585 | 337 | 584 | 242 | 585 | 342 | 593 | 245 | 585 | 347 | 611 | 253 | 585 | 358 |
| 2 | 680 | 282 | 698 | 398 | 690 | 286 | 699 | 404 | 698 | 289 | 699 | 409 | 716 | 297 | 699 | 419 |
| 3 | 893 | 370 | 928 | 523 | 902 | 373 | 928 | 528 | 910 | 377 | 928 | 533 | 928 | 384 | 928 | 543 |
| 1 | 468 | 193 | 468 | 274 | 477 | 198 | 468 | 279 | 485 | 201 | 468 | 284 | 503 | 208 | 468 | 295 |
| 2 | 575 | 238 | 585 | 337 | 584 | 242 | 585 | 342 | 593 | 245 | 585 | 347 | 611 | 253 | 585 | 358 |
| 2 | 680 | 282 | 698 | 398 | 690 | 286 | 699 | 404 | 698 | 289 | 699 | 409 | 716 | 297 | 699 | 419 |
| 3 | 893 | 370 | 928 | 523 | 902 | 373 | 928 | 528 | 910 | 377 | 928 | 533 | 928 | 384 | 928 | 543 |
| 1 | 468 | 193 | 468 | 274 | 477 | 198 | 468 | 279 | 485 | 201 | 468 | 284 | 503 | 208 | 468 | 295 |
| 2 | 575 | 238 | 585 | 337 | 584 | 242 | 585 | 342 | 593 | 245 | 585 | 347 | 611 | 253 | 585 | 358 |
| 2 | 680 | 282 | 698 | 398 | 690 | 286 | 699 | 404 | 698 | 289 | 699 | 409 | 716 | 297 | 699 | 419 |
| 3 | 893 | 370 | 928 | 523 | 902 | 373 | 928 | 528 | 910 | 377 | 928 | 533 | 928 | 384 | 928 | 543 |
| 1 | 468 | 193 | 468 | 274 | 477 | 198 | 468 | 279 | 485 | 201 | 468 | 284 | 503 | 208 | 468 | 295 |
| 2 | 575 | 238 | 585 | 337 | 584 | 242 | 585 | 342 | 593 | 245 | 585 | 347 | 611 | 253 | 585 | 358 |
| 2 | 680 | 282 | 698 | 398 | 690 | 286 | 699 | 404 | 698 | 289 | 699 | 409 | 716 | 297 | 699 | 419 |
| 3 | 893 | 370 | 928 | 523 | 902 | 373 | 928 | 528 | 910 | 377 | 928 | 533 | 928 | 384 | 928 | 543 |

■ Please check page “67” for the cover selection.

■ Please indicate order code in your orders.

■ Please contact us for special modules.

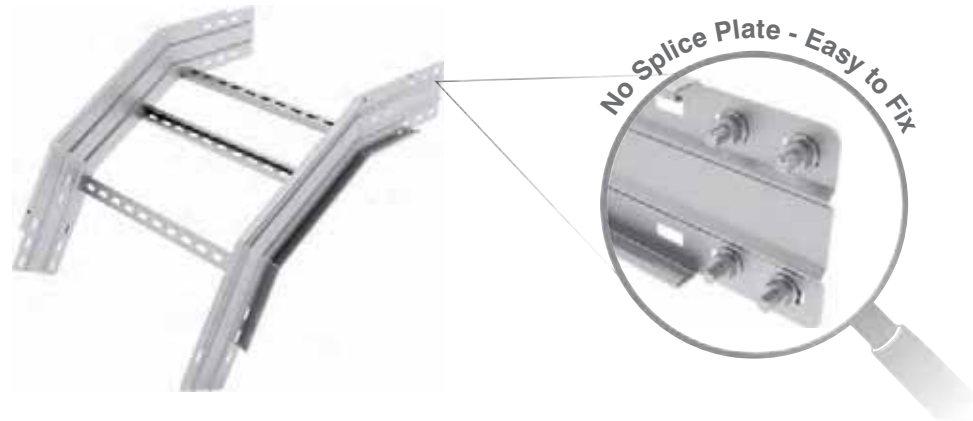
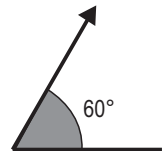
■ Material weights may vary by ± 10%

►► Fittings DD60 Vertical Outside Elbow

DD60



Fitting shown for illustration purposes only. The rung layout shown is typical and will vary on each fitting, depending on width and radius.



| Width (mm) | Radius (mm) | Description | Code | | | | Weight (kg) | | | |
|------------|-------------|-------------------------|---------|---------|---------|---------|-------------|--------|--------|--------|
| | | | ↓100 | ↓125 | ↓150 | ↓200 | ↓100 | ↓125 | ↓150 | ↓200 |
| 150 | 300 | ↓ KCA OG150/DD60/Δ/300 | 3068314 | 3068323 | 3068332 | | 3,408 | 4,134 | 4,781 | |
| | 450 | ↓ KCA OG150/DD60/Δ/450 | 3068454 | 3068463 | 3068472 | | 4,343 | 5,205 | 5,991 | |
| | 600 | ↓ KCA OG150/DD60/Δ/600 | 3068594 | 3068603 | 3068612 | | 5,453 | 6,476 | 7,400 | |
| | 900 | ↓ KCA OG150/DD60/Δ/900 | 3068734 | 3068743 | 3068752 | | 7,480 | 8,846 | 9,895 | |
| 200 | 300 | ↓ KCA OG200/DD60/Δ/300 | 3068315 | 3068324 | 3068333 | 3068341 | 3,531 | 4,257 | 4,904 | 6,307 |
| | 450 | ↓ KCA OG200/DD60/Δ/450 | 3068455 | 3068464 | 3068473 | 3068481 | 4,466 | 5,328 | 6,114 | 7,795 |
| | 600 | ↓ KCA OG200/DD60/Δ/600 | 3068595 | 3068604 | 3068613 | 3068621 | 5,638 | 6,661 | 7,585 | 9,543 |
| | 900 | ↓ KCA OG200/DD60/Δ/900 | 3068735 | 3068744 | 3068753 | 3068761 | 7,726 | 9,093 | 10,333 | 12,877 |
| 300 | 300 | ↓ KCA OG300/DD60/Δ/300 | 3068316 | 3068325 | 3068334 | 3068342 | 3,782 | 4,508 | 5,155 | 6,558 |
| | 450 | ↓ KCA OG300/DD60/Δ/450 | 3068456 | 3068465 | 3068474 | 3068482 | 4,717 | 5,579 | 6,365 | 8,045 |
| | 600 | ↓ KCA OG300/DD60/Δ/600 | 3068596 | 3068605 | 3068614 | 3068622 | 6,014 | 7,037 | 7,961 | 9,919 |
| | 900 | ↓ KCA OG300/DD60/Δ/900 | 3068736 | 3068745 | 3068754 | 3068762 | 8,228 | 9,594 | 10,835 | 13,378 |
| 450 | 300 | ↓ KCA OG450/DD60/Δ/300 | 3068317 | 3068326 | 3068335 | 3068343 | 4,154 | 4,880 | 5,526 | 6,930 |
| | 450 | ↓ KCA OG450/DD60/Δ/450 | 3068457 | 3068466 | 3068475 | 3068483 | 5,089 | 5,951 | 6,736 | 8,417 |
| | 600 | ↓ KCA OG450/DD60/Δ/600 | 3068597 | 3068606 | 3068615 | 3068623 | 6,571 | 7,594 | 8,518 | 10,476 |
| | 900 | ↓ KCA OG450/DD60/Δ/900 | 3068737 | 3068746 | 3068755 | 3068763 | 8,972 | 10,338 | 11,579 | 14,122 |
| 600 | 300 | ↓ KCA OG600/DD60/Δ/300 | 3068318 | 3068327 | 3068336 | 3068344 | 4,528 | 5,254 | 5,900 | 7,304 |
| | 450 | ↓ KCA OG600/DD60/Δ/450 | 3068458 | 3068467 | 3068476 | 3068484 | 5,463 | 6,325 | 7,110 | 8,791 |
| | 600 | ↓ KCA OG600/DD60/Δ/600 | 3068598 | 3068607 | 3068616 | 3068624 | 7,132 | 8,155 | 9,079 | 11,037 |
| | 900 | ↓ KCA OG600/DD60/Δ/900 | 3068738 | 3068747 | 3068756 | 3068764 | 9,720 | 11,086 | 12,327 | 14,870 |
| 750 | 300 | ↓ KCA OG750/DD60/Δ/300 | 3068319 | 3068328 | 3068337 | 3068345 | 5,434 | 6,160 | 6,807 | 8,210 |
| | 450 | ↓ KCA OG750/DD60/Δ/450 | 3068459 | 3068468 | 3068477 | 3068485 | 6,369 | 7,231 | 8,017 | 9,698 |
| | 600 | ↓ KCA OG750/DD60/Δ/600 | 3068599 | 3068608 | 3068617 | 3068625 | 8,492 | 9,515 | 10,439 | 12,397 |
| | 900 | ↓ KCA OG750/DD60/Δ/900 | 3068739 | 3068748 | 3068757 | 3068765 | 11,532 | 12,899 | 14,139 | 16,683 |
| 900 | 300 | ↓ KCA OG900/DD60/Δ/300 | 3068320 | 3068329 | 3068338 | 3068346 | 5,914 | 6,640 | 7,286 | 8,690 |
| | 450 | ↓ KCA OG900/DD60/Δ/450 | 3068460 | 3068469 | 3068478 | 3068486 | 6,849 | 7,711 | 8,496 | 10,177 |
| | 600 | ↓ KCA OG900/DD60/Δ/600 | 3068600 | 3068609 | 3068618 | 3068626 | 9,211 | 10,234 | 11,158 | 13,116 |
| | 900 | ↓ KCA OG900/DD60/Δ/900 | 3068740 | 3068749 | 3068758 | 3068766 | 12,492 | 13,858 | 15,095 | 17,642 |
| 1000 | 300 | ↓ KCA OG1000/DD60/Δ/300 | 3068321 | 3068330 | 3068339 | 3068347 | 6,233 | 6,959 | 7,605 | 9,009 |
| | 450 | ↓ KCA OG1000/DD60/Δ/450 | 3068461 | 3068470 | 3068479 | 3068487 | 7,168 | 8,030 | 8,815 | 10,496 |
| | 600 | ↓ KCA OG1000/DD60/Δ/600 | 3068601 | 3068610 | 3068619 | 3068627 | 9,690 | 10,713 | 11,637 | 13,595 |
| | 900 | ↓ KCA OG1000/DD60/Δ/900 | 3068741 | 3068750 | 3068759 | 3068767 | 13,130 | 14,496 | 15,737 | 18,280 |
| 1100 | 300 | ↓ KCA OG1100/DD60/Δ/300 | 3068322 | 3068331 | 3068340 | 3068348 | 6,552 | 7,278 | 7,924 | 9,328 |
| | 450 | ↓ KCA OG1100/DD60/Δ/450 | 3068462 | 3068471 | 3068480 | 3068488 | 7,487 | 8,349 | 9,134 | 10,815 |
| | 600 | ↓ KCA OG1100/DD60/Δ/600 | 3068602 | 3068611 | 3068620 | 3068628 | 10,168 | 11,191 | 12,115 | 14,073 |
| | 900 | ↓ KCA OG1100/DD60/Δ/900 | 3068742 | 3068751 | 3068760 | 3068768 | 13,768 | 15,134 | 16,375 | 18,918 |



- 16 pcs M10X20 bolt set should be ordered.
- Δ: All products codes and weights given are in kilograms (kg) and are hotdip galvanized (HDG) finish.
- To obtain the appropriate component weight in other finishes, multiply the given weight by the below finish factors.
- Finish factor: HDG (ISO En1461) = (HDG):1 / Stainless Steel = (SS) : 0.94

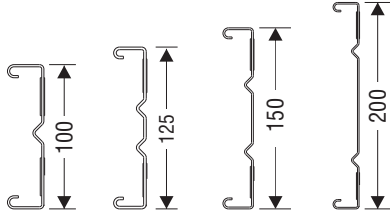
■ Please indicate order code in your orders.

■ Please contact us for special modules.

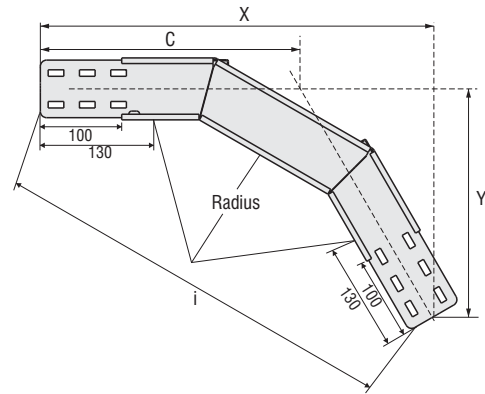
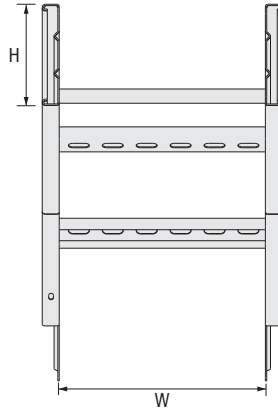
■ Material weights may vary by ± 10%

►► Fittings DD60 Vertical Outside Elbow

Siderail:



2 mm Standard thickness



| No. of Rungs | ↓100/Dimensions (mm) | | | | ↓125/Dimensions (mm) | | | | ↓150/Dimensions (mm) | | | | ↓200/Dimensions (mm) | | | |
|--------------|----------------------|-----|------|-----|----------------------|-----|------|-----|----------------------|-----|------|-----|----------------------|-----|------|-----|
| | X | Y | i | C | X | Y | i | C | X | Y | i | C | X | Y | i | C |
| 2 | 500 | 289 | 526 | 333 | 509 | 293 | 526 | 339 | 520 | 300 | 526 | 346 | 542 | 312 | 526 | 361 |
| 2 | 629 | 363 | 676 | 419 | 639 | 368 | 676 | 426 | 648 | 374 | 676 | 432 | 671 | 387 | 676 | 447 |
| 3 | 758 | 506 | 825 | 438 | 768 | 511 | 825 | 443 | 778 | 518 | 825 | 449 | 800 | 533 | 825 | 462 |
| 4 | 1017 | 678 | 1124 | 587 | 1027 | 684 | 1124 | 593 | 1039 | 693 | 1124 | 600 | 1060 | 707 | 1124 | 612 |
| 2 | 500 | 289 | 526 | 333 | 509 | 293 | 526 | 339 | 520 | 300 | 526 | 346 | 542 | 312 | 526 | 361 |
| 2 | 629 | 363 | 676 | 419 | 639 | 368 | 676 | 426 | 648 | 374 | 676 | 432 | 671 | 387 | 676 | 447 |
| 3 | 758 | 506 | 825 | 438 | 768 | 511 | 825 | 443 | 778 | 518 | 825 | 449 | 800 | 533 | 825 | 462 |
| 4 | 1017 | 678 | 1124 | 587 | 1027 | 684 | 1124 | 593 | 1039 | 693 | 1124 | 600 | 1060 | 707 | 1124 | 612 |
| 2 | 500 | 289 | 526 | 333 | 509 | 293 | 526 | 339 | 520 | 300 | 526 | 346 | 542 | 312 | 526 | 361 |
| 2 | 629 | 363 | 676 | 419 | 639 | 368 | 676 | 426 | 648 | 374 | 676 | 432 | 671 | 387 | 676 | 447 |
| 3 | 758 | 506 | 825 | 438 | 768 | 511 | 825 | 443 | 778 | 518 | 825 | 449 | 800 | 533 | 825 | 462 |
| 4 | 1017 | 678 | 1124 | 587 | 1027 | 684 | 1124 | 593 | 1039 | 693 | 1124 | 600 | 1060 | 707 | 1124 | 612 |
| 2 | 500 | 289 | 526 | 333 | 509 | 293 | 526 | 339 | 520 | 300 | 526 | 346 | 542 | 312 | 526 | 361 |
| 2 | 629 | 363 | 676 | 419 | 639 | 368 | 676 | 426 | 648 | 374 | 676 | 432 | 671 | 387 | 676 | 447 |
| 3 | 758 | 506 | 825 | 438 | 768 | 511 | 825 | 443 | 778 | 518 | 825 | 449 | 800 | 533 | 825 | 462 |
| 4 | 1017 | 678 | 1124 | 587 | 1027 | 684 | 1124 | 593 | 1039 | 693 | 1124 | 600 | 1060 | 707 | 1124 | 612 |
| 2 | 500 | 289 | 526 | 333 | 509 | 293 | 526 | 339 | 520 | 300 | 526 | 346 | 542 | 312 | 526 | 361 |
| 2 | 629 | 363 | 676 | 419 | 639 | 368 | 676 | 426 | 648 | 374 | 676 | 432 | 671 | 387 | 676 | 447 |
| 3 | 758 | 506 | 825 | 438 | 768 | 511 | 825 | 443 | 778 | 518 | 825 | 449 | 800 | 533 | 825 | 462 |
| 4 | 1017 | 678 | 1124 | 587 | 1027 | 684 | 1124 | 593 | 1039 | 693 | 1124 | 600 | 1060 | 707 | 1124 | 612 |
| 2 | 500 | 289 | 526 | 333 | 509 | 293 | 526 | 339 | 520 | 300 | 526 | 346 | 542 | 312 | 526 | 361 |
| 2 | 629 | 363 | 676 | 419 | 639 | 368 | 676 | 426 | 648 | 374 | 676 | 432 | 671 | 387 | 676 | 447 |
| 3 | 758 | 506 | 825 | 438 | 768 | 511 | 825 | 443 | 778 | 518 | 825 | 449 | 800 | 533 | 825 | 462 |
| 4 | 1017 | 678 | 1124 | 587 | 1027 | 684 | 1124 | 593 | 1039 | 693 | 1124 | 600 | 1060 | 707 | 1124 | 612 |
| 2 | 500 | 289 | 526 | 333 | 509 | 293 | 526 | 339 | 520 | 300 | 526 | 346 | 542 | 312 | 526 | 361 |
| 2 | 629 | 363 | 676 | 419 | 639 | 368 | 676 | 426 | 648 | 374 | 676 | 432 | 671 | 387 | 676 | 447 |
| 3 | 758 | 506 | 825 | 438 | 768 | 511 | 825 | 443 | 778 | 518 | 825 | 449 | 800 | 533 | 825 | 462 |
| 4 | 1017 | 678 | 1124 | 587 | 1027 | 684 | 1124 | 593 | 1039 | 693 | 1124 | 600 | 1060 | 707 | 1124 | 612 |

■ Please check page “68” for the cover selection.

■ Please indicate order code in your orders.

■ Please contact us for special modules.

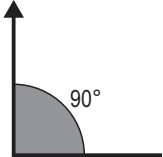
■ Material weights may vary by ± 10%

►► Fittings DD90 Vertical Outside Elbow

DD90



Fitting shown for illustration purposes only. The rung layout shown is typical and will vary on each fitting, depending on width and radius.



| Width (mm) | Radius (mm) | Description | Code | | | | Weight (kg) | | | |
|------------|-------------|-------------------------|---------|---------|---------|---------|-------------|--------|--------|--------|
| | | | ↓100 | ↓125 | ↓150 | ↓200 | ↓100 | ↓125 | ↓150 | ↓200 |
| 150 | 300 | ↓ KCA OG150/DD90/Δ/300 | 3068349 | 3068358 | 3068367 | | 4,613 | 5,573 | 6,426 | |
| | 450 | ↓ KCA OG150/DD90/Δ/450 | 3068489 | 3068498 | 3068507 | | 6,181 | 7,417 | 8,522 | |
| | 600 | ↓ KCA OG150/DD90/Δ/600 | 3068629 | 3068638 | 3068647 | | 7,834 | 9,295 | 10,615 | |
| | 900 | ↓ KCA OG150/DD90/Δ/900 | 3068769 | 3068778 | 3068787 | | 10,838 | 12,825 | 14,572 | |
| 200 | 300 | ↓ KCA OG200/DD90/Δ/300 | 3068350 | 3068359 | 3068368 | 3068376 | 4,737 | 5,696 | 6,549 | 8,472 |
| | 450 | ↓ KCA OG200/DD90/Δ/450 | 3068490 | 3068499 | 3068508 | 3068516 | 6,366 | 7,602 | 8,707 | 11,058 |
| | 600 | ↓ KCA OG200/DD90/Δ/600 | 3068630 | 3068639 | 3068648 | 3068656 | 8,081 | 9,541 | 10,861 | 13,598 |
| | 900 | ↓ KCA OG200/DD90/Δ/900 | 3068770 | 3068779 | 3068788 | 3068796 | 11,146 | 13,133 | 14,880 | 18,519 |
| 300 | 300 | ↓ KCA OG300/DD90/Δ/300 | 3068351 | 3068360 | 3068369 | 3068377 | 4,987 | 5,947 | 7,180 | 9,103 |
| | 450 | ↓ KCA OG300/DD90/Δ/450 | 3068491 | 3068500 | 3068509 | 3068517 | 6,742 | 7,978 | 9,083 | 11,435 |
| | 600 | ↓ KCA OG300/DD90/Δ/600 | 3068631 | 3068640 | 3068649 | 3068657 | 8,582 | 10,043 | 11,363 | 14,100 |
| | 900 | ↓ KCA OG300/DD90/Δ/900 | 3068771 | 3068780 | 3068789 | 3068797 | 11,773 | 13,760 | 15,507 | 19,146 |
| 450 | 300 | ↓ KCA OG450/DD90/Δ/300 | 3068352 | 3068361 | 3068370 | 3068378 | 5,359 | 6,318 | 7,737 | 9,660 |
| | 450 | ↓ KCA OG450/DD90/Δ/450 | 3068492 | 3068501 | 3068510 | 3068518 | 7,300 | 8,536 | 9,640 | 11,992 |
| | 600 | ↓ KCA OG450/DD90/Δ/600 | 3068632 | 3068641 | 3068650 | 3068658 | 9,326 | 10,787 | 12,107 | 14,843 |
| | 900 | ↓ KCA OG450/DD90/Δ/900 | 3068772 | 3068781 | 3068790 | 3068798 | 12,703 | 14,689 | 16,436 | 20,075 |
| 600 | 300 | ↓ KCA OG600/DD90/Δ/300 | 3068353 | 3068362 | 3068371 | 3068379 | 5,733 | 6,692 | 8,298 | 10,221 |
| | 450 | ↓ KCA OG600/DD90/Δ/450 | 3068493 | 3068502 | 3068511 | 3068519 | 7,861 | 9,097 | 10,201 | 12,553 |
| | 600 | ↓ KCA OG600/DD90/Δ/600 | 3068633 | 3068642 | 3068651 | 3068659 | 10,074 | 11,535 | 12,855 | 15,591 |
| | 900 | ↓ KCA OG600/DD90/Δ/900 | 3068773 | 3068782 | 3068791 | 3068799 | 13,638 | 15,624 | 17,371 | 21,010 |
| 750 | 300 | ↓ KCA OG750/DD90/Δ/300 | 3068354 | 3068363 | 3068372 | 3068380 | 7,845 | 8,804 | 9,658 | 11,581 |
| | 450 | ↓ KCA OG750/DD90/Δ/450 | 3068494 | 3068503 | 3068512 | 3068520 | 9,220 | 10,457 | 11,561 | 13,913 |
| | 600 | ↓ KCA OG750/DD90/Δ/600 | 3068634 | 3068643 | 3068652 | 3068660 | 11,887 | 13,347 | 14,667 | 17,404 |
| | 900 | ↓ KCA OG750/DD90/Δ/900 | 3068774 | 3068783 | 3068792 | 3068800 | 15,904 | 17,890 | 19,637 | 23,276 |
| 900 | 300 | ↓ KCA OG900/DD90/Δ/300 | 3068355 | 3068364 | 3068373 | 3068381 | 8,565 | 9,524 | 10,377 | 12,300 |
| | 450 | ↓ KCA OG900/DD90/Δ/450 | 3068495 | 3068504 | 3068513 | 3068521 | 9,940 | 11,176 | 12,280 | 14,632 |
| | 600 | ↓ KCA OG900/DD90/Δ/600 | 3068635 | 3068644 | 3068653 | 3068661 | 12,846 | 14,307 | 15,627 | 18,363 |
| | 900 | ↓ KCA OG900/DD90/Δ/900 | 3068775 | 3068784 | 3068793 | 3068801 | 17,103 | 19,089 | 20,836 | 24,475 |
| 1000 | 300 | ↓ KCA OG1000/DD90/Δ/300 | 3068356 | 3068365 | 3068374 | 3068382 | 9,043 | 10,002 | 10,856 | 12,779 |
| | 450 | ↓ KCA OG1000/DD90/Δ/450 | 3068496 | 3068505 | 3068514 | 3068522 | 10,418 | 11,655 | 12,759 | 15,111 |
| | 600 | ↓ KCA OG1000/DD90/Δ/600 | 3068636 | 3068645 | 3068654 | 3068662 | 13,484 | 14,945 | 16,265 | 19,001 |
| | 900 | ↓ KCA OG1000/DD90/Δ/900 | 3068776 | 3068785 | 3068794 | 3068802 | 17,900 | 19,887 | 21,634 | 25,273 |
| 1100 | 300 | ↓ KCA OG1100/DD90/Δ/300 | 3068357 | 3068366 | 3068375 | 3068383 | 9,522 | 10,481 | 11,334 | 13,257 |
| | 450 | ↓ KCA OG1100/DD90/Δ/450 | 3068497 | 3068506 | 3068515 | 3068523 | 10,897 | 12,133 | 13,237 | 15,589 |
| | 600 | ↓ KCA OG1100/DD90/Δ/600 | 3068637 | 3068646 | 3068655 | 3068663 | 14,122 | 15,583 | 16,903 | 19,639 |
| | 900 | ↓ KCA OG1100/DD90/Δ/900 | 3068777 | 3068786 | 3068795 | 3068803 | 18,698 | 20,684 | 22,431 | 26,070 |



- 16 pcs M10X20 bolt set should be ordered.
- Δ: All products codes and weights given are in kilograms (kg) and are hotdip galvanized (HDG) finish.
- To obtain the appropriate component weight in other finishes, multiply the given weight by the below finish factors.
- Finish factor: HDG (ISO En1461) = (HDG):1 / Stainless Steel = (SS) : 0.94

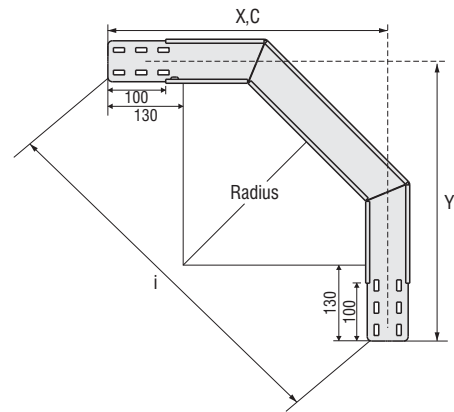
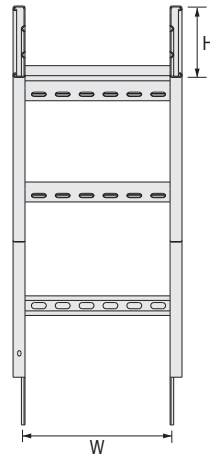
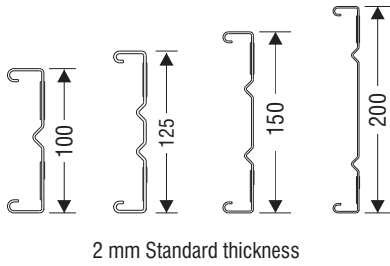
■ Please indicate order code in your orders.

■ Please contact us for special modules.

■ Material weights may vary by ± 10%

►► Fittings DD90 Vertical Outside Elbow

Siderail:



| No. of Rungs | ↓100/Dimensions (mm) | | | | ↓125/Dimensions (mm) | | | | ↓150/Dimensions (mm) | | | | ↓200/Dimensions (mm) | | | |
|--------------|----------------------|------|------|------|----------------------|------|------|------|----------------------|------|------|------|----------------------|------|------|------|
| | X | Y | i | C | X | Y | i | C | X | Y | i | C | X | Y | i | C |
| 2 | 482 | 482 | 610 | 482 | 493 | 493 | 610 | 493 | 504 | 504 | 607 | 504 | 528 | 528 | 607 | 528 |
| 3 | 629 | 629 | 820 | 629 | 642 | 642 | 820 | 642 | 653 | 653 | 820 | 653 | 680 | 680 | 820 | 680 |
| 4 | 780 | 780 | 1032 | 780 | 792 | 792 | 1032 | 792 | 803 | 803 | 1030 | 803 | 826 | 826 | 1028 | 826 |
| 5 | 1077 | 1077 | 1453 | 1077 | 1092 | 1092 | 1456 | 1092 | 1104 | 1104 | 1456 | 1104 | 1129 | 1129 | 1456 | 1129 |
| 2 | 482 | 482 | 610 | 482 | 493 | 493 | 610 | 493 | 504 | 504 | 607 | 504 | 528 | 528 | 607 | 528 |
| 3 | 629 | 629 | 820 | 629 | 642 | 642 | 820 | 642 | 653 | 653 | 820 | 653 | 680 | 680 | 820 | 680 |
| 4 | 780 | 780 | 1032 | 780 | 792 | 792 | 1032 | 792 | 803 | 803 | 1030 | 803 | 826 | 826 | 1028 | 826 |
| 5 | 1077 | 1077 | 1453 | 1077 | 1092 | 1092 | 1456 | 1092 | 1104 | 1104 | 1456 | 1104 | 1129 | 1129 | 1456 | 1129 |
| 2 | 482 | 482 | 610 | 482 | 493 | 493 | 610 | 493 | 504 | 504 | 607 | 504 | 528 | 528 | 607 | 528 |
| 3 | 629 | 629 | 820 | 629 | 642 | 642 | 820 | 642 | 653 | 653 | 820 | 653 | 680 | 680 | 820 | 680 |
| 4 | 780 | 780 | 1032 | 780 | 792 | 792 | 1032 | 792 | 803 | 803 | 1030 | 803 | 826 | 826 | 1028 | 826 |
| 5 | 1077 | 1077 | 1453 | 1077 | 1092 | 1092 | 1456 | 1092 | 1104 | 1104 | 1456 | 1104 | 1129 | 1129 | 1456 | 1129 |
| 2 | 482 | 482 | 610 | 482 | 493 | 493 | 610 | 493 | 504 | 504 | 607 | 504 | 528 | 528 | 607 | 528 |
| 3 | 629 | 629 | 820 | 629 | 642 | 642 | 820 | 642 | 653 | 653 | 820 | 653 | 680 | 680 | 820 | 680 |
| 4 | 780 | 780 | 1032 | 780 | 792 | 792 | 1032 | 792 | 803 | 803 | 1030 | 803 | 826 | 826 | 1028 | 826 |
| 5 | 1077 | 1077 | 1453 | 1077 | 1092 | 1092 | 1456 | 1092 | 1104 | 1104 | 1456 | 1104 | 1129 | 1129 | 1456 | 1129 |
| 2 | 482 | 482 | 610 | 482 | 493 | 493 | 610 | 493 | 504 | 504 | 607 | 504 | 528 | 528 | 607 | 528 |
| 3 | 629 | 629 | 820 | 629 | 642 | 642 | 820 | 642 | 653 | 653 | 820 | 653 | 680 | 680 | 820 | 680 |
| 4 | 780 | 780 | 1032 | 780 | 792 | 792 | 1032 | 792 | 803 | 803 | 1030 | 803 | 826 | 826 | 1028 | 826 |
| 5 | 1077 | 1077 | 1453 | 1077 | 1092 | 1092 | 1456 | 1092 | 1104 | 1104 | 1456 | 1104 | 1129 | 1129 | 1456 | 1129 |
| 2 | 482 | 482 | 610 | 482 | 493 | 493 | 610 | 493 | 504 | 504 | 607 | 504 | 528 | 528 | 607 | 528 |
| 3 | 629 | 629 | 820 | 629 | 642 | 642 | 820 | 642 | 653 | 653 | 820 | 653 | 680 | 680 | 820 | 680 |
| 4 | 780 | 780 | 1032 | 780 | 792 | 792 | 1032 | 792 | 803 | 803 | 1030 | 803 | 826 | 826 | 1028 | 826 |
| 5 | 1077 | 1077 | 1453 | 1077 | 1092 | 1092 | 1456 | 1092 | 1104 | 1104 | 1456 | 1104 | 1129 | 1129 | 1456 | 1129 |
| 2 | 482 | 482 | 610 | 482 | 493 | 493 | 610 | 493 | 504 | 504 | 607 | 504 | 528 | 528 | 607 | 528 |
| 3 | 629 | 629 | 820 | 629 | 642 | 642 | 820 | 642 | 653 | 653 | 820 | 653 | 680 | 680 | 820 | 680 |
| 4 | 780 | 780 | 1032 | 780 | 792 | 792 | 1032 | 792 | 803 | 803 | 1030 | 803 | 826 | 826 | 1028 | 826 |
| 5 | 1077 | 1077 | 1453 | 1077 | 1092 | 1092 | 1456 | 1092 | 1104 | 1104 | 1456 | 1104 | 1129 | 1129 | 1456 | 1129 |
| 2 | 482 | 482 | 610 | 482 | 493 | 493 | 610 | 493 | 504 | 504 | 607 | 504 | 528 | 528 | 607 | 528 |
| 3 | 629 | 629 | 820 | 629 | 642 | 642 | 820 | 642 | 653 | 653 | 820 | 653 | 680 | 680 | 820 | 680 |
| 4 | 780 | 780 | 1032 | 780 | 792 | 792 | 1032 | 792 | 803 | 803 | 1030 | 803 | 826 | 826 | 1028 | 826 |
| 5 | 1077 | 1077 | 1453 | 1077 | 1092 | 1092 | 1456 | 1092 | 1104 | 1104 | 1456 | 1104 | 1129 | 1129 | 1456 | 1129 |

■ Please check page “69” for the cover selection.

■ Please indicate order code in your orders.

■ Please contact us for special modules.

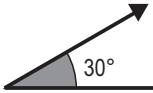
■ Material weights may vary by ± 10%

►► Fittings ID30 Vertical Inside Elbow

ID30



Fitting shown for illustration purposes only. The rung layout shown is typical and will vary on each fitting, depending on width and radius.



| Width (mm) | Radius (mm) | Description | Code | | | | Weight (kg) | | | |
|------------|-------------|-------------------------|---------|---------|---------|---------|-------------|-------|--------|--------|
| | | | ↓100 | ↓125 | ↓150 | ↓200 | ↓100 | ↓125 | ↓150 | ↓200 |
| 150 | 300 | ↓ KCA OG150/ID30/Δ/300 | 3067684 | 3067693 | 3067702 | | 2,151 | 2,687 | 3,145 | |
| | 450 | ↓ KCA OG150/ID30/Δ/450 | 3067824 | 3067833 | 3067842 | | 2,615 | 3,185 | 3,682 | |
| | 600 | ↓ KCA OG150/ID30/Δ/600 | 3067964 | 3067973 | 3067982 | | 2,973 | 3,603 | 4,282 | |
| | 900 | ↓ KCA OG150/ID30/Δ/900 | 3068104 | 3068113 | 3068122 | | 4,245 | 5,175 | 5,488 | |
| 200 | 300 | ↓ KCA OG200/ID30/Δ/300 | 3067685 | 3067694 | 3067703 | 3067711 | 2,212 | 2,749 | 3,207 | 4,170 |
| | 450 | ↓ KCA OG200/ID30/Δ/450 | 3067825 | 3067834 | 3067843 | 3067851 | 2,676 | 3,246 | 3,743 | 4,806 |
| | 600 | ↓ KCA OG200/ID30/Δ/600 | 3067965 | 3067974 | 3067983 | 3067991 | 3,035 | 3,664 | 4,344 | 5,613 |
| | 900 | ↓ KCA OG200/ID30/Δ/900 | 3068105 | 3068114 | 3068123 | 3068131 | 4,430 | 5,360 | 5,673 | 7,472 |
| 300 | 300 | ↓ KCA OG300/ID30/Δ/300 | 3067686 | 3067695 | 3067704 | 3067712 | 2,338 | 2,874 | 3,332 | 4,296 |
| | 450 | ↓ KCA OG300/ID30/Δ/450 | 3067826 | 3067835 | 3067844 | 3067852 | 2,802 | 3,372 | 3,869 | 4,931 |
| | 600 | ↓ KCA OG300/ID30/Δ/600 | 3067966 | 3067975 | 3067984 | 3067992 | 3,160 | 3,790 | 4,469 | 5,739 |
| | 900 | ↓ KCA OG300/ID30/Δ/900 | 3068106 | 3068115 | 3068124 | 3068132 | 4,806 | 5,736 | 6,049 | 7,849 |
| 450 | 300 | ↓ KCA OG450/ID30/Δ/300 | 3067687 | 3067696 | 3067705 | 3067713 | 2,523 | 3,060 | 3,518 | 4,481 |
| | 450 | ↓ KCA OG450/ID30/Δ/450 | 3067827 | 3067836 | 3067845 | 3067853 | 2,988 | 3,557 | 4,055 | 5,117 |
| | 600 | ↓ KCA OG450/ID30/Δ/600 | 3067967 | 3067976 | 3067985 | 3067993 | 3,346 | 3,975 | 4,655 | 5,925 |
| | 900 | ↓ KCA OG450/ID30/Δ/900 | 3068107 | 3068116 | 3068125 | 3068133 | 5,364 | 6,294 | 6,607 | 8,406 |
| 600 | 300 | ↓ KCA OG600/ID30/Δ/300 | 3067688 | 3067697 | 3067706 | 3067714 | 2,710 | 3,247 | 3,705 | 4,668 |
| | 450 | ↓ KCA OG600/ID30/Δ/450 | 3067828 | 3067837 | 3067846 | 3067854 | 3,175 | 3,744 | 4,242 | 5,304 |
| | 600 | ↓ KCA OG600/ID30/Δ/600 | 3067968 | 3067977 | 3067986 | 3067994 | 3,533 | 4,162 | 4,842 | 6,112 |
| | 900 | ↓ KCA OG600/ID30/Δ/900 | 3068108 | 3068117 | 3068126 | 3068134 | 5,925 | 6,855 | 7,168 | 8,967 |
| 750 | 300 | ↓ KCA OG750/ID30/Δ/300 | 3067689 | 3067698 | 3067707 | 3067715 | 3,164 | 3,700 | 4,158 | 5,122 |
| | 450 | ↓ KCA OG750/ID30/Δ/450 | 3067829 | 3067838 | 3067847 | 3067855 | 3,628 | 4,198 | 4,695 | 5,757 |
| | 600 | ↓ KCA OG750/ID30/Δ/600 | 3067969 | 3067978 | 3067987 | 3067995 | 3,986 | 4,616 | 5,295 | 6,565 |
| | 900 | ↓ KCA OG750/ID30/Δ/900 | 3068109 | 3068118 | 3068127 | 3068135 | 7,284 | 8,214 | 8,527 | 10,327 |
| 900 | 300 | ↓ KCA OG900/ID30/Δ/300 | 3067690 | 3067699 | 3067708 | 3067716 | 3,403 | 3,940 | 4,398 | 5,361 |
| | 450 | ↓ KCA OG900/ID30/Δ/450 | 3067830 | 3067839 | 3067848 | 3067856 | 3,868 | 4,437 | 4,935 | 5,997 |
| | 600 | ↓ KCA OG900/ID30/Δ/600 | 3067970 | 3067979 | 3067988 | 3067996 | 4,226 | 4,855 | 5,535 | 6,805 |
| | 900 | ↓ KCA OG900/ID30/Δ/900 | 3068110 | 3068119 | 3068128 | 3068136 | 8,004 | 8,934 | 9,247 | 11,046 |
| 1000 | 300 | ↓ KCA OG1000/ID30/Δ/300 | 3067691 | 3067700 | 3067709 | 3067717 | 3,563 | 4,100 | 4,557 | 5,521 |
| | 450 | ↓ KCA OG1000/ID30/Δ/450 | 3067831 | 3067840 | 3067849 | 3067857 | 4,027 | 4,597 | 5,094 | 6,157 |
| | 600 | ↓ KCA OG1000/ID30/Δ/600 | 3067971 | 3067980 | 3067989 | 3067997 | 4,386 | 5,015 | 5,695 | 6,964 |
| | 900 | ↓ KCA OG1000/ID30/Δ/900 | 3068111 | 3068120 | 3068129 | 3068137 | 8,482 | 9,412 | 9,725 | 11,525 |
| 1100 | 300 | ↓ KCA OG1100/ID30/Δ/300 | 3067692 | 3067701 | 3067710 | 3067718 | 3,722 | 4,259 | 4,717 | 5,680 |
| | 450 | ↓ KCA OG1100/ID30/Δ/450 | 3067832 | 3067841 | 3067850 | 3067858 | 4,187 | 4,756 | 5,254 | 6,316 |
| | 600 | ↓ KCA OG1100/ID30/Δ/600 | 3067972 | 3067981 | 3067990 | 3067998 | 4,545 | 5,174 | 5,854 | 7,124 |
| | 900 | ↓ KCA OG1100/ID30/Δ/900 | 3068112 | 3068121 | 3068130 | 3068138 | 9,093 | 9,891 | 10,204 | 12,003 |



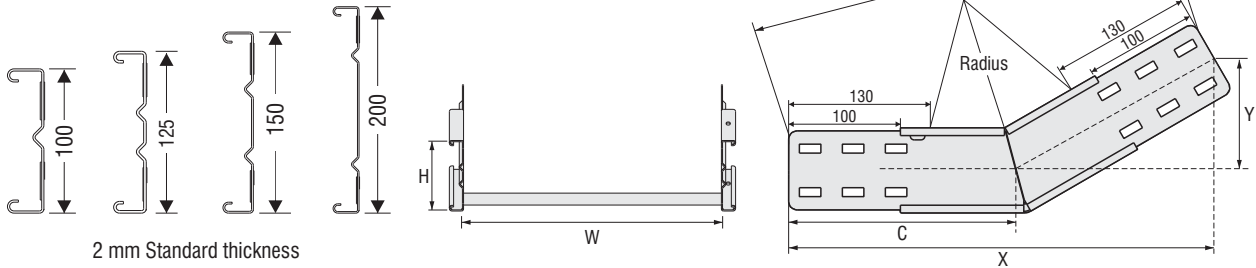
- 16 pcs M10X20 bolt set should be ordered.
- Δ: All products codes and weights given are in kilograms (kg) and are hotdip galvanized (HDG) finish.
- To obtain the appropriate component weight in other finishes, multiply the given weight by the below finish factors.
- Finish factor: HDG (ISO En1461) = (HDG):1 / Stainless Steel = (SS) : 0.94

■ Please indicate order code in your orders.

■ Please contact us for special modules.

■ Material weights may vary by ± 10%

Siderail:



| No. of Rungs | ↓100 / Dimensions (mm) | | | | ↓125 / Dimensions (mm) | | | | ↓150 / Dimensions (mm) | | | | ↓200 / Dimensions (mm) | | | |
|--------------|------------------------|-----|-----|-----|------------------------|-----|-----|-----|------------------------|-----|-----|-----|------------------------|-----|-----|-----|
| | X | Y | i | C | X | Y | i | C | X | Y | i | C | X | Y | i | C |
| 1 | 417 | 112 | 406 | 224 | 423 | 113 | 406 | 226 | 429 | 115 | 406 | 230 | 441 | 118 | 406 | 236 |
| 1 | 494 | 132 | 485 | 264 | 500 | 134 | 485 | 268 | 505 | 135 | 485 | 270 | 518 | 138 | 485 | 278 |
| 1 | 567 | 152 | 561 | 304 | 573 | 154 | 561 | 307 | 579 | 155 | 561 | 310 | 592 | 158 | 561 | 317 |
| 3 | 717 | 192 | 717 | 384 | 724 | 194 | 717 | 388 | 729 | 196 | 717 | 390 | 742 | 198 | 717 | 398 |
| 1 | 417 | 112 | 406 | 224 | 423 | 113 | 406 | 226 | 429 | 115 | 406 | 230 | 441 | 118 | 406 | 236 |
| 1 | 494 | 132 | 485 | 264 | 500 | 134 | 485 | 268 | 505 | 135 | 485 | 270 | 518 | 138 | 485 | 278 |
| 1 | 567 | 152 | 561 | 304 | 573 | 154 | 561 | 307 | 579 | 155 | 561 | 310 | 592 | 158 | 561 | 317 |
| 3 | 717 | 192 | 717 | 384 | 724 | 194 | 717 | 388 | 729 | 196 | 717 | 390 | 742 | 198 | 717 | 398 |
| 1 | 417 | 112 | 406 | 224 | 423 | 113 | 406 | 226 | 429 | 115 | 406 | 230 | 441 | 118 | 406 | 236 |
| 1 | 494 | 132 | 485 | 264 | 500 | 134 | 485 | 268 | 505 | 135 | 485 | 270 | 518 | 138 | 485 | 278 |
| 1 | 567 | 152 | 561 | 304 | 573 | 154 | 561 | 307 | 579 | 155 | 561 | 310 | 592 | 158 | 561 | 317 |
| 3 | 717 | 192 | 717 | 384 | 724 | 194 | 717 | 388 | 729 | 196 | 717 | 390 | 742 | 198 | 717 | 398 |
| 1 | 417 | 112 | 406 | 224 | 423 | 113 | 406 | 226 | 429 | 115 | 406 | 230 | 441 | 118 | 406 | 236 |
| 1 | 494 | 132 | 485 | 264 | 500 | 134 | 485 | 268 | 505 | 135 | 485 | 270 | 518 | 138 | 485 | 278 |
| 1 | 567 | 152 | 561 | 304 | 573 | 154 | 561 | 307 | 579 | 155 | 561 | 310 | 592 | 158 | 561 | 317 |
| 3 | 717 | 192 | 717 | 384 | 724 | 194 | 717 | 388 | 729 | 196 | 717 | 390 | 742 | 198 | 717 | 398 |
| 1 | 417 | 112 | 406 | 224 | 423 | 113 | 406 | 226 | 429 | 115 | 406 | 230 | 441 | 118 | 406 | 236 |
| 1 | 494 | 132 | 485 | 264 | 500 | 134 | 485 | 268 | 505 | 135 | 485 | 270 | 518 | 138 | 485 | 278 |
| 1 | 567 | 152 | 561 | 304 | 573 | 154 | 561 | 307 | 579 | 155 | 561 | 310 | 592 | 158 | 561 | 317 |
| 3 | 717 | 192 | 717 | 384 | 724 | 194 | 717 | 388 | 729 | 196 | 717 | 390 | 742 | 198 | 717 | 398 |
| 1 | 417 | 112 | 406 | 224 | 423 | 113 | 406 | 226 | 429 | 115 | 406 | 230 | 441 | 118 | 406 | 236 |
| 1 | 494 | 132 | 485 | 264 | 500 | 134 | 485 | 268 | 505 | 135 | 485 | 270 | 518 | 138 | 485 | 278 |
| 1 | 567 | 152 | 561 | 304 | 573 | 154 | 561 | 307 | 579 | 155 | 561 | 310 | 592 | 158 | 561 | 317 |
| 3 | 717 | 192 | 717 | 384 | 724 | 194 | 717 | 388 | 729 | 196 | 717 | 390 | 742 | 198 | 717 | 398 |
| 1 | 417 | 112 | 406 | 224 | 423 | 113 | 406 | 226 | 429 | 115 | 406 | 230 | 441 | 118 | 406 | 236 |
| 1 | 494 | 132 | 485 | 264 | 500 | 134 | 485 | 268 | 505 | 135 | 485 | 270 | 518 | 138 | 485 | 278 |
| 1 | 567 | 152 | 561 | 304 | 573 | 154 | 561 | 307 | 579 | 155 | 561 | 310 | 592 | 158 | 561 | 317 |
| 3 | 717 | 192 | 717 | 384 | 724 | 194 | 717 | 388 | 729 | 196 | 717 | 390 | 742 | 198 | 717 | 398 |
| 1 | 417 | 112 | 406 | 224 | 423 | 113 | 406 | 226 | 429 | 115 | 406 | 230 | 441 | 118 | 406 | 236 |
| 1 | 494 | 132 | 485 | 264 | 500 | 134 | 485 | 268 | 505 | 135 | 485 | 270 | 518 | 138 | 485 | 278 |
| 1 | 567 | 152 | 561 | 304 | 573 | 154 | 561 | 307 | 579 | 155 | 561 | 310 | 592 | 158 | 561 | 317 |
| 3 | 717 | 192 | 717 | 384 | 724 | 194 | 717 | 388 | 729 | 196 | 717 | 390 | 742 | 198 | 717 | 398 |
| 1 | 417 | 112 | 406 | 224 | 423 | 113 | 406 | 226 | 429 | 115 | 406 | 230 | 441 | 118 | 406 | 236 |
| 1 | 494 | 132 | 485 | 264 | 500 | 134 | 485 | 268 | 505 | 135 | 485 | 270 | 518 | 138 | 485 | 278 |
| 1 | 567 | 152 | 561 | 304 | 573 | 154 | 561 | 307 | 579 | 155 | 561 | 310 | 592 | 158 | 561 | 317 |
| 3 | 717 | 192 | 717 | 384 | 724 | 194 | 717 | 388 | 729 | 196 | 717 | 390 | 742 | 198 | 717 | 398 |

■ Please check page “70” for the cover selection.

■ Please indicate order code in your orders.

■ Please contact us for special modules.

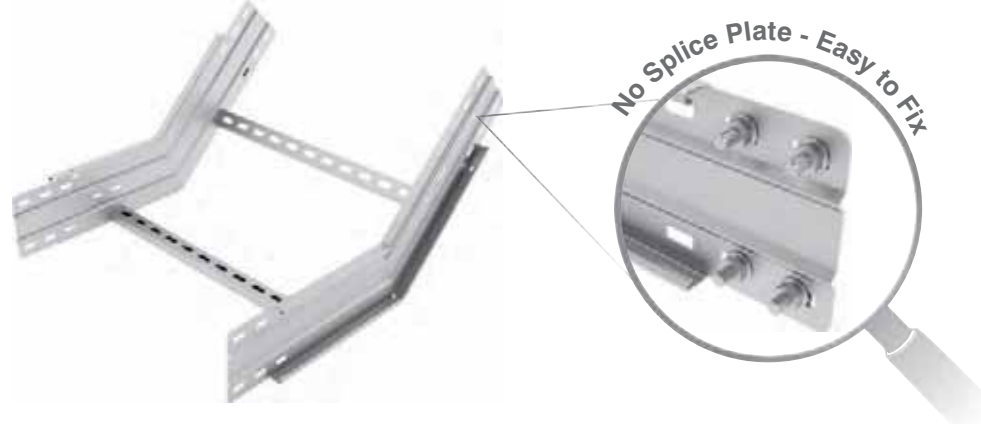
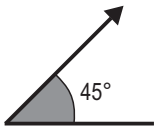
■ Material weights may vary by ± 10%

►► Fittings ID45 Vertical Inside Elbow

ID45



Fitting shown for illustration purposes only. The rung layout shown is typical and will vary on each fitting, depending on width and radius.



| Width (mm) | Radius (mm) | Description | Code | | | | Weight (kg) | | | |
|------------|-------------|-------------------------|---------|---------|---------|---------|-------------|--------|--------|--------|
| | | | ↓100 | ↓125 | ↓150 | ↓200 | ↓100 | ↓125 | ↓150 | ↓200 |
| 150 | 300 | ↓ KCA OG150/ID45/Δ/300 | 3067719 | 3067728 | 3067737 | | 2,723 | 3,325 | 3,880 | |
| | 450 | ↓ KCA OG150/ID45/Δ/450 | 3067859 | 3067868 | 3067877 | | 3,639 | 4,369 | 5,036 | |
| | 600 | ↓ KCA OG150/ID45/Δ/600 | 3067999 | 3068008 | 3068017 | | 4,301 | 5,203 | 6,004 | |
| | 900 | ↓ KCA OG150/ID45/Δ/900 | 3068139 | 3068148 | 3068157 | | 5,970 | 7,076 | 8,060 | |
| 200 | 300 | ↓ KCA OG200/ID45/Δ/300 | 3067720 | 3067729 | 3067738 | 3067746 | 2,784 | 3,387 | 3,941 | 5,118 |
| | 450 | ↓ KCA OG200/ID45/Δ/450 | 3067860 | 3067869 | 3067878 | 3067886 | 3,762 | 4,492 | 5,159 | 6,554 |
| | 600 | ↓ KCA OG200/ID45/Δ/600 | 3068000 | 3068009 | 3068018 | 3068026 | 4,424 | 5,326 | 6,127 | 7,700 |
| | 900 | ↓ KCA OG200/ID45/Δ/900 | 3068140 | 3068149 | 3068158 | 3068166 | 6,155 | 7,261 | 8,245 | 10,280 |
| 300 | 300 | ↓ KCA OG300/ID45/Δ/300 | 3067721 | 3067730 | 3067739 | 3067747 | 2,910 | 3,512 | 4,067 | 5,244 |
| | 450 | ↓ KCA OG300/ID45/Δ/450 | 3067861 | 3067870 | 3067879 | 3067887 | 4,013 | 4,743 | 5,410 | 6,805 |
| | 600 | ↓ KCA OG300/ID45/Δ/600 | 3068001 | 3068010 | 3068019 | 3068027 | 4,675 | 5,577 | 6,378 | 7,951 |
| | 900 | ↓ KCA OG300/ID45/Δ/900 | 3068141 | 3068150 | 3068159 | 3068167 | 6,531 | 7,637 | 8,621 | 10,656 |
| 450 | 300 | ↓ KCA OG450/ID45/Δ/300 | 3067722 | 3067731 | 3067740 | 3067748 | 3,095 | 3,698 | 4,253 | 5,430 |
| | 450 | ↓ KCA OG450/ID45/Δ/450 | 3067862 | 3067871 | 3067880 | 3067888 | 4,385 | 5,115 | 5,782 | 7,176 |
| | 600 | ↓ KCA OG450/ID45/Δ/600 | 3068002 | 3068011 | 3068020 | 3068028 | 5,047 | 5,949 | 6,750 | 8,323 |
| | 900 | ↓ KCA OG450/ID45/Δ/900 | 3068142 | 3068151 | 3068160 | 3068168 | 7,088 | 8,195 | 9,178 | 11,213 |
| 600 | 300 | ↓ KCA OG600/ID45/Δ/300 | 3067723 | 3067732 | 3067741 | 3067749 | 3,282 | 3,885 | 4,440 | 5,617 |
| | 450 | ↓ KCA OG600/ID45/Δ/450 | 3067863 | 3067872 | 3067881 | 3067889 | 4,759 | 5,489 | 6,156 | 7,550 |
| | 600 | ↓ KCA OG600/ID45/Δ/600 | 3068003 | 3068012 | 3068021 | 3068029 | 5,421 | 6,323 | 7,124 | 8,697 |
| | 900 | ↓ KCA OG600/ID45/Δ/900 | 3068143 | 3068152 | 3068161 | 3068169 | 7,649 | 8,756 | 9,739 | 11,774 |
| 750 | 300 | ↓ KCA OG750/ID45/Δ/300 | 3067724 | 3067733 | 3067742 | 3067750 | 3,736 | 4,338 | 4,893 | 6,070 |
| | 450 | ↓ KCA OG750/ID45/Δ/450 | 3067864 | 3067873 | 3067882 | 3067890 | 5,665 | 6,395 | 7,062 | 8,457 |
| | 600 | ↓ KCA OG750/ID45/Δ/600 | 3068004 | 3068013 | 3068022 | 3068030 | 6,327 | 7,229 | 8,030 | 9,603 |
| | 900 | ↓ KCA OG750/ID45/Δ/900 | 3068144 | 3068153 | 3068162 | 3068170 | 9,009 | 10,116 | 11,099 | 13,134 |
| 900 | 300 | ↓ KCA OG900/ID45/Δ/300 | 3067725 | 3067734 | 3067743 | 3067751 | 3,975 | 4,578 | 5,133 | 6,310 |
| | 450 | ↓ KCA OG900/ID45/Δ/450 | 3067865 | 3067874 | 3067883 | 3067891 | 6,145 | 6,875 | 7,542 | 8,936 |
| | 600 | ↓ KCA OG900/ID45/Δ/600 | 3068005 | 3068014 | 3068023 | 3068031 | 6,807 | 7,709 | 8,510 | 10,083 |
| | 900 | ↓ KCA OG900/ID45/Δ/900 | 3068145 | 3068154 | 3068163 | 3068171 | 9,728 | 10,835 | 11,818 | 13,853 |
| 1000 | 300 | ↓ KCA OG1000/ID45/Δ/300 | 3067726 | 3067735 | 3067744 | 3067752 | 4,135 | 4,738 | 5,292 | 6,469 |
| | 450 | ↓ KCA OG1000/ID45/Δ/450 | 3067866 | 3067875 | 3067884 | 3067892 | 6,464 | 7,194 | 7,861 | 9,255 |
| | 600 | ↓ KCA OG1000/ID45/Δ/600 | 3068006 | 3068015 | 3068024 | 3068032 | 7,126 | 8,028 | 8,829 | 10,402 |
| | 900 | ↓ KCA OG1000/ID45/Δ/900 | 3068146 | 3068155 | 3068164 | 3068172 | 10,207 | 11,314 | 12,297 | 14,332 |
| 1100 | 300 | ↓ KCA OG1100/ID45/Δ/300 | 3067727 | 3067736 | 3067745 | 3067753 | 4,294 | 4,897 | 5,452 | 6,629 |
| | 450 | ↓ KCA OG1100/ID45/Δ/450 | 3067867 | 3067876 | 3067885 | 3067893 | 6,783 | 7,513 | 8,180 | 9,574 |
| | 600 | ↓ KCA OG1100/ID45/Δ/600 | 3068007 | 3068016 | 3068025 | 3068033 | 7,445 | 8,347 | 9,148 | 10,721 |
| | 900 | ↓ KCA OG1100/ID45/Δ/900 | 3068147 | 3068156 | 3068165 | 3068173 | 10,685 | 11,792 | 12,775 | 14,810 |



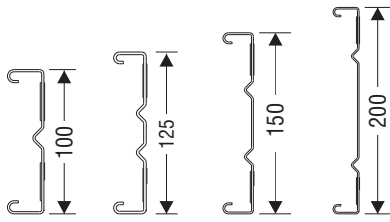
- 16 pcs M10X20 bolt set should be ordered.
- Δ: All products codes and weights given are in kilograms (kg) and are hotdip galvanized (HDG) finish.
- To obtain the appropriate component weight in other finishes, multiply the given weight by the below finish factors.
- Finish factor: HDG (ISO En1461) = (HDG):1 / Stainless Steel = (SS) : 0.94

■ Please indicate order code in your orders.

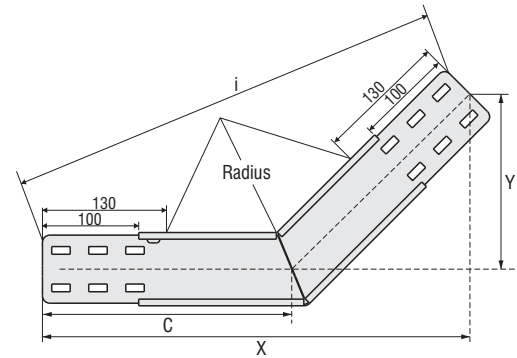
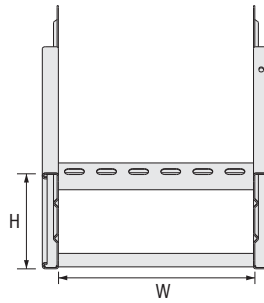
■ Please contact us for special modules.

■ Material weights may vary by ± 10%

Siderail:



2 mm Standard thickness



| No. of Rungs | ↓100 / Dimensions (mm) | | | | ↓125 / Dimensions (mm) | | | | ↓150 / Dimensions (mm) | | | | ↓200 / Dimensions (mm) | | | |
|--------------|------------------------|-----|-----|-----|------------------------|-----|-----|-----|------------------------|-----|-----|-----|------------------------|-----|-----|-----|
| | X | Y | i | C | X | Y | i | C | X | Y | i | C | X | Y | i | C |
| 1 | 468 | 193 | 468 | 274 | 477 | 198 | 468 | 279 | 485 | 201 | 468 | 284 | 503 | 208 | 468 | 295 |
| 2 | 575 | 238 | 585 | 337 | 584 | 242 | 585 | 342 | 593 | 245 | 585 | 347 | 611 | 253 | 585 | 358 |
| 2 | 680 | 282 | 698 | 398 | 690 | 286 | 699 | 404 | 698 | 289 | 699 | 409 | 716 | 297 | 699 | 419 |
| 3 | 893 | 370 | 928 | 523 | 902 | 373 | 928 | 528 | 910 | 377 | 928 | 533 | 928 | 384 | 928 | 543 |
| 1 | 468 | 193 | 468 | 274 | 477 | 198 | 468 | 279 | 485 | 201 | 468 | 284 | 503 | 208 | 468 | 295 |
| 2 | 575 | 238 | 585 | 337 | 584 | 242 | 585 | 342 | 593 | 245 | 585 | 347 | 611 | 253 | 585 | 358 |
| 2 | 680 | 282 | 698 | 398 | 690 | 286 | 699 | 404 | 698 | 289 | 699 | 409 | 716 | 297 | 699 | 419 |
| 3 | 893 | 370 | 928 | 523 | 902 | 373 | 928 | 528 | 910 | 377 | 928 | 533 | 928 | 384 | 928 | 543 |
| 1 | 468 | 193 | 468 | 274 | 477 | 198 | 468 | 279 | 485 | 201 | 468 | 284 | 503 | 208 | 468 | 295 |
| 2 | 575 | 238 | 585 | 337 | 584 | 242 | 585 | 342 | 593 | 245 | 585 | 347 | 611 | 253 | 585 | 358 |
| 2 | 680 | 282 | 698 | 398 | 690 | 286 | 699 | 404 | 698 | 289 | 699 | 409 | 716 | 297 | 699 | 419 |
| 3 | 893 | 370 | 928 | 523 | 902 | 373 | 928 | 528 | 910 | 377 | 928 | 533 | 928 | 384 | 928 | 543 |
| 1 | 468 | 193 | 468 | 274 | 477 | 198 | 468 | 279 | 485 | 201 | 468 | 284 | 503 | 208 | 468 | 295 |
| 2 | 575 | 238 | 585 | 337 | 584 | 242 | 585 | 342 | 593 | 245 | 585 | 347 | 611 | 253 | 585 | 358 |
| 2 | 680 | 282 | 698 | 398 | 690 | 286 | 699 | 404 | 698 | 289 | 699 | 409 | 716 | 297 | 699 | 419 |
| 3 | 893 | 370 | 928 | 523 | 902 | 373 | 928 | 528 | 910 | 377 | 928 | 533 | 928 | 384 | 928 | 543 |
| 1 | 468 | 193 | 468 | 274 | 477 | 198 | 468 | 279 | 485 | 201 | 468 | 284 | 503 | 208 | 468 | 295 |
| 2 | 575 | 238 | 585 | 337 | 584 | 242 | 585 | 342 | 593 | 245 | 585 | 347 | 611 | 253 | 585 | 358 |
| 2 | 680 | 282 | 698 | 398 | 690 | 286 | 699 | 404 | 698 | 289 | 699 | 409 | 716 | 297 | 699 | 419 |
| 3 | 893 | 370 | 928 | 523 | 902 | 373 | 928 | 528 | 910 | 377 | 928 | 533 | 928 | 384 | 928 | 543 |
| 1 | 468 | 193 | 468 | 274 | 477 | 198 | 468 | 279 | 485 | 201 | 468 | 284 | 503 | 208 | 468 | 295 |
| 2 | 575 | 238 | 585 | 337 | 584 | 242 | 585 | 342 | 593 | 245 | 585 | 347 | 611 | 253 | 585 | 358 |
| 2 | 680 | 282 | 698 | 398 | 690 | 286 | 699 | 404 | 698 | 289 | 699 | 409 | 716 | 297 | 699 | 419 |
| 3 | 893 | 370 | 928 | 523 | 902 | 373 | 928 | 528 | 910 | 377 | 928 | 533 | 928 | 384 | 928 | 543 |
| 1 | 468 | 193 | 468 | 274 | 477 | 198 | 468 | 279 | 485 | 201 | 468 | 284 | 503 | 208 | 468 | 295 |
| 2 | 575 | 238 | 585 | 337 | 584 | 242 | 585 | 342 | 593 | 245 | 585 | 347 | 611 | 253 | 585 | 358 |
| 2 | 680 | 282 | 698 | 398 | 690 | 286 | 699 | 404 | 698 | 289 | 699 | 409 | 716 | 297 | 699 | 419 |
| 3 | 893 | 370 | 928 | 523 | 902 | 373 | 928 | 528 | 910 | 377 | 928 | 533 | 928 | 384 | 928 | 543 |

■ Please check page “71” for the cover selection.

■ Please indicate order code in your orders.

■ Please contact us for special modules.

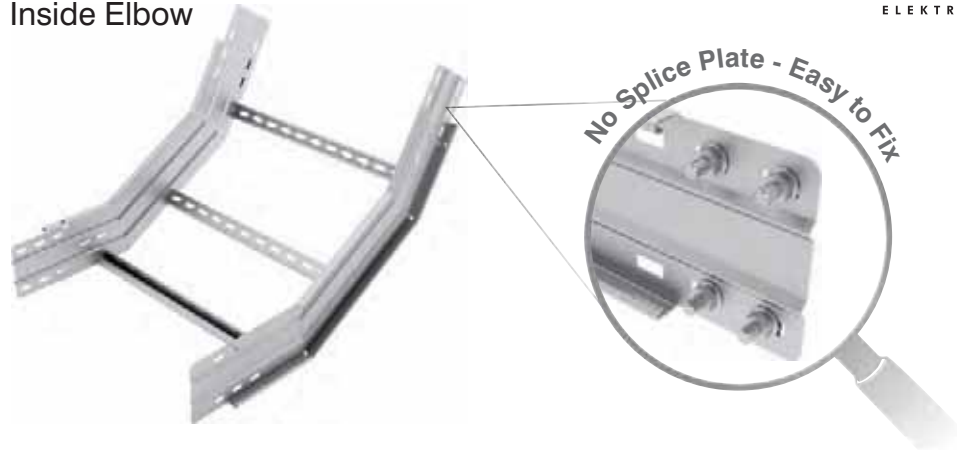
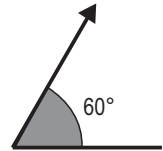
■ Material weights may vary by ± 10%

►► Fittings ID60 Vertical Inside Elbow

ID60



Fitting shown for illustration purposes only. The rung layout shown is typical and will vary on each fitting, depending on width and radius.



| Width (mm) | Radius (mm) | Description | Code | | | | Weight (kg) | | | |
|------------|-------------|-------------------------|---------|---------|---------|---------|-------------|--------|--------|--------|
| | | | ↓100 | ↓125 | ↓150 | ↓200 | ↓100 | ↓125 | ↓150 | ↓200 |
| 150 | 300 | ↓ KCA OG150/ID60/Δ/300 | 3067754 | 3067763 | 3067772 | | 3,408 | 4,134 | 4,781 | |
| | 450 | ↓ KCA OG150/ID60/Δ/450 | 3067894 | 3067903 | 3067912 | | 4,343 | 5,205 | 5,991 | |
| | 600 | ↓ KCA OG150/ID60/Δ/600 | 3068034 | 3068043 | 3068052 | | 5,453 | 6,476 | 7,400 | |
| | 900 | ↓ KCA OG150/ID60/Δ/900 | 3068174 | 3068183 | 3068192 | | 7,480 | 8,846 | 9,895 | |
| 200 | 300 | ↓ KCA OG200/ID60/Δ/300 | 3067755 | 3067764 | 3067773 | 3067781 | 3,531 | 4,257 | 4,904 | 6,307 |
| | 450 | ↓ KCA OG200/ID60/Δ/450 | 3067895 | 3067904 | 3067913 | 3067921 | 4,466 | 5,328 | 6,114 | 7,795 |
| | 600 | ↓ KCA OG200/ID60/Δ/600 | 3068035 | 3068044 | 3068053 | 3068061 | 5,638 | 6,661 | 7,585 | 9,543 |
| | 900 | ↓ KCA OG200/ID60/Δ/900 | 3068175 | 3068184 | 3068193 | 3068201 | 7,726 | 9,093 | 10,333 | 12,877 |
| 300 | 300 | ↓ KCA OG300/ID60/Δ/300 | 3067756 | 3067765 | 3067774 | 3067782 | 3,782 | 4,508 | 5,155 | 6,558 |
| | 450 | ↓ KCA OG300/ID60/Δ/450 | 3067896 | 3067905 | 3067914 | 3067922 | 4,717 | 5,579 | 6,365 | 8,045 |
| | 600 | ↓ KCA OG300/ID60/Δ/600 | 3068036 | 3068045 | 3068054 | 3068062 | 6,014 | 7,037 | 7,961 | 9,919 |
| | 900 | ↓ KCA OG300/ID60/Δ/900 | 3068176 | 3068185 | 3068194 | 3068202 | 8,228 | 9,594 | 10,835 | 13,378 |
| 450 | 300 | ↓ KCA OG450/ID60/Δ/300 | 3067757 | 3067766 | 3067775 | 3067783 | 4,154 | 4,880 | 5,526 | 6,930 |
| | 450 | ↓ KCA OG450/ID60/Δ/450 | 3067897 | 3067906 | 3067915 | 3067923 | 5,089 | 5,951 | 6,736 | 8,417 |
| | 600 | ↓ KCA OG450/ID60/Δ/600 | 3068037 | 3068046 | 3068055 | 3068063 | 6,571 | 7,594 | 8,518 | 10,476 |
| | 900 | ↓ KCA OG450/ID60/Δ/900 | 3068177 | 3068186 | 3068195 | 3068203 | 8,972 | 10,338 | 11,579 | 14,122 |
| 600 | 300 | ↓ KCA OG600/ID60/Δ/300 | 3067758 | 3067767 | 3067776 | 3067784 | 4,528 | 5,254 | 5,900 | 7,304 |
| | 450 | ↓ KCA OG600/ID60/Δ/450 | 3067898 | 3067907 | 3067916 | 3067924 | 5,463 | 6,325 | 7,110 | 8,791 |
| | 600 | ↓ KCA OG600/ID60/Δ/600 | 3068038 | 3068047 | 3068056 | 3068064 | 7,132 | 8,155 | 9,079 | 11,037 |
| | 900 | ↓ KCA OG600/ID60/Δ/900 | 3068178 | 3068187 | 3068196 | 3068204 | 9,720 | 11,086 | 12,327 | 14,870 |
| 750 | 300 | ↓ KCA OG750/ID60/Δ/300 | 3067759 | 3067768 | 3067777 | 3067785 | 5,434 | 6,160 | 6,807 | 8,210 |
| | 450 | ↓ KCA OG750/ID60/Δ/450 | 3067899 | 3067908 | 3067917 | 3067925 | 6,369 | 7,231 | 8,017 | 9,698 |
| | 600 | ↓ KCA OG750/ID60/Δ/600 | 3068039 | 3068048 | 3068057 | 3068065 | 8,492 | 9,515 | 10,439 | 12,397 |
| | 900 | ↓ KCA OG750/ID60/Δ/900 | 3068179 | 3068188 | 3068197 | 3068205 | 11,532 | 12,899 | 14,139 | 16,683 |
| 900 | 300 | ↓ KCA OG900/ID60/Δ/300 | 3067760 | 3067769 | 3067778 | 3067786 | 5,914 | 6,640 | 7,286 | 8,690 |
| | 450 | ↓ KCA OG900/ID60/Δ/450 | 3067900 | 3067909 | 3067918 | 3067926 | 6,849 | 7,711 | 8,496 | 10,177 |
| | 600 | ↓ KCA OG900/ID60/Δ/600 | 3068040 | 3068049 | 3068058 | 3068066 | 9,211 | 10,234 | 11,158 | 13,116 |
| | 900 | ↓ KCA OG900/ID60/Δ/900 | 3068180 | 3068189 | 3068198 | 3068206 | 12,492 | 13,858 | 15,095 | 17,642 |
| 1000 | 300 | ↓ KCA OG1000/ID60/Δ/300 | 3067761 | 3067770 | 3067779 | 3067787 | 6,233 | 6,959 | 7,605 | 9,009 |
| | 450 | ↓ KCA OG1000/ID60/Δ/450 | 3067901 | 3067910 | 3067919 | 3067927 | 7,168 | 8,030 | 8,815 | 10,496 |
| | 600 | ↓ KCA OG1000/ID60/Δ/600 | 3068041 | 3068050 | 3068059 | 3068067 | 9,690 | 10,713 | 11,637 | 13,595 |
| | 900 | ↓ KCA OG1000/ID60/Δ/900 | 3068181 | 3068190 | 3068199 | 3068207 | 13,130 | 14,496 | 15,737 | 18,280 |
| 1100 | 300 | ↓ KCA OG1100/ID60/Δ/300 | 3067762 | 3067771 | 3067780 | 3067788 | 6,552 | 7,278 | 7,924 | 9,328 |
| | 450 | ↓ KCA OG1100/ID60/Δ/450 | 3067902 | 3067911 | 3067920 | 3067928 | 7,487 | 8,349 | 9,134 | 10,815 |
| | 600 | ↓ KCA OG1100/ID60/Δ/600 | 3068042 | 3068051 | 3068060 | 3068068 | 10,168 | 11,191 | 12,115 | 14,073 |
| | 900 | ↓ KCA OG1100/ID60/Δ/900 | 3068182 | 3068191 | 3068200 | 3068208 | 13,768 | 15,134 | 16,375 | 18,918 |

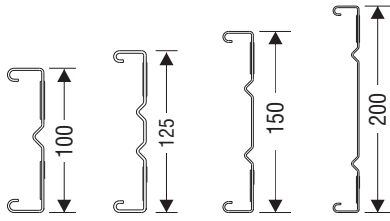


- 16 pcs M10X20 bolt set should be ordered.
- Δ: All products codes and weights given are in kilograms (kg) and are hotdip galvanized (HDG) finish.
- To obtain the appropriate component weight in other finishes, multiply the given weight by the below finish factors.
- Finish factor: HDG (ISO En1461) = (HDG):1 / Stainless Steel = (SS) : 0.94

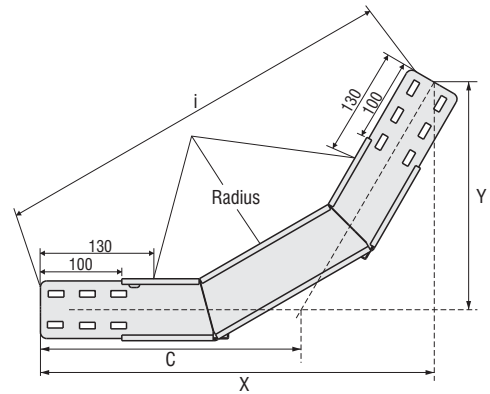
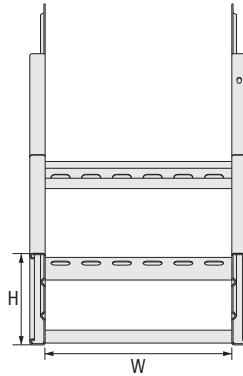
■ Please indicate order code in your orders. ■ Please contact us for special modules. ■ Material weights may vary by ± 10%

►► Fittings ID60 Vertical Inside Elbow

Siderail:



2 mm Standard thickness



| No. of Rungs | ↓100/Dimensions (mm) | | | | ↓125/Dimensions (mm) | | | | ↓150/Dimensions (mm) | | | | ↓200/Dimensions (mm) | | | |
|--------------|----------------------|-----|------|-----|----------------------|-----|------|-----|----------------------|-----|------|-----|----------------------|-----|------|-----|
| | X | Y | i | C | X | Y | i | C | X | Y | i | C | X | Y | i | C |
| 2 | 500 | 289 | 526 | 333 | 509 | 293 | 526 | 339 | 520 | 300 | 526 | 346 | 542 | 312 | 526 | 361 |
| 2 | 629 | 363 | 676 | 419 | 639 | 368 | 676 | 426 | 648 | 374 | 676 | 432 | 671 | 387 | 676 | 447 |
| 3 | 758 | 438 | 825 | 506 | 768 | 443 | 825 | 511 | 778 | 449 | 825 | 518 | 800 | 462 | 825 | 533 |
| 4 | 1017 | 587 | 1124 | 678 | 1027 | 593 | 1124 | 684 | 1039 | 600 | 1124 | 693 | 1060 | 612 | 1124 | 707 |
| 2 | 500 | 289 | 526 | 333 | 509 | 293 | 526 | 339 | 520 | 300 | 526 | 346 | 542 | 312 | 526 | 361 |
| 2 | 629 | 363 | 676 | 419 | 639 | 368 | 676 | 426 | 648 | 374 | 676 | 432 | 671 | 387 | 676 | 447 |
| 3 | 758 | 438 | 825 | 506 | 768 | 443 | 825 | 511 | 778 | 449 | 825 | 518 | 800 | 462 | 825 | 533 |
| 4 | 1017 | 587 | 1124 | 678 | 1027 | 593 | 1124 | 684 | 1039 | 600 | 1124 | 693 | 1060 | 612 | 1124 | 707 |
| 2 | 500 | 289 | 526 | 333 | 509 | 293 | 526 | 339 | 520 | 300 | 526 | 346 | 542 | 312 | 526 | 361 |
| 2 | 629 | 363 | 676 | 419 | 639 | 368 | 676 | 426 | 648 | 374 | 676 | 432 | 671 | 387 | 676 | 447 |
| 3 | 758 | 438 | 825 | 506 | 768 | 443 | 825 | 511 | 778 | 449 | 825 | 518 | 800 | 462 | 825 | 533 |
| 4 | 1017 | 587 | 1124 | 678 | 1027 | 593 | 1124 | 684 | 1039 | 600 | 1124 | 693 | 1060 | 612 | 1124 | 707 |
| 2 | 500 | 289 | 526 | 333 | 509 | 293 | 526 | 339 | 520 | 300 | 526 | 346 | 542 | 312 | 526 | 361 |
| 2 | 629 | 363 | 676 | 419 | 639 | 368 | 676 | 426 | 648 | 374 | 676 | 432 | 671 | 387 | 676 | 447 |
| 3 | 758 | 438 | 825 | 506 | 768 | 443 | 825 | 511 | 778 | 449 | 825 | 518 | 800 | 462 | 825 | 533 |
| 4 | 1017 | 587 | 1124 | 678 | 1027 | 593 | 1124 | 684 | 1039 | 600 | 1124 | 693 | 1060 | 612 | 1124 | 707 |
| 2 | 500 | 289 | 526 | 333 | 509 | 293 | 526 | 339 | 520 | 300 | 526 | 346 | 542 | 312 | 526 | 361 |
| 2 | 629 | 363 | 676 | 419 | 639 | 368 | 676 | 426 | 648 | 374 | 676 | 432 | 671 | 387 | 676 | 447 |
| 3 | 758 | 438 | 825 | 506 | 768 | 443 | 825 | 511 | 778 | 449 | 825 | 518 | 800 | 462 | 825 | 533 |
| 4 | 1017 | 587 | 1124 | 678 | 1027 | 593 | 1124 | 684 | 1039 | 600 | 1124 | 693 | 1060 | 612 | 1124 | 707 |
| 2 | 500 | 289 | 526 | 333 | 509 | 293 | 526 | 339 | 520 | 300 | 526 | 346 | 542 | 312 | 526 | 361 |
| 2 | 629 | 363 | 676 | 419 | 639 | 368 | 676 | 426 | 648 | 374 | 676 | 432 | 671 | 387 | 676 | 447 |
| 3 | 758 | 438 | 825 | 506 | 768 | 443 | 825 | 511 | 778 | 449 | 825 | 518 | 800 | 462 | 825 | 533 |
| 4 | 1017 | 587 | 1124 | 678 | 1027 | 593 | 1124 | 684 | 1039 | 600 | 1124 | 693 | 1060 | 612 | 1124 | 707 |
| 2 | 500 | 289 | 526 | 333 | 509 | 293 | 526 | 339 | 520 | 300 | 526 | 346 | 542 | 312 | 526 | 361 |
| 2 | 629 | 363 | 676 | 419 | 639 | 368 | 676 | 426 | 648 | 374 | 676 | 432 | 671 | 387 | 676 | 447 |
| 3 | 758 | 438 | 825 | 506 | 768 | 443 | 825 | 511 | 778 | 449 | 825 | 518 | 800 | 462 | 825 | 533 |
| 4 | 1017 | 587 | 1124 | 678 | 1027 | 593 | 1124 | 684 | 1039 | 600 | 1124 | 693 | 1060 | 612 | 1124 | 707 |

■ Please check page "72" for the cover selection.

■ Please indicate order code in your orders.

■ Please contact us for special modules.

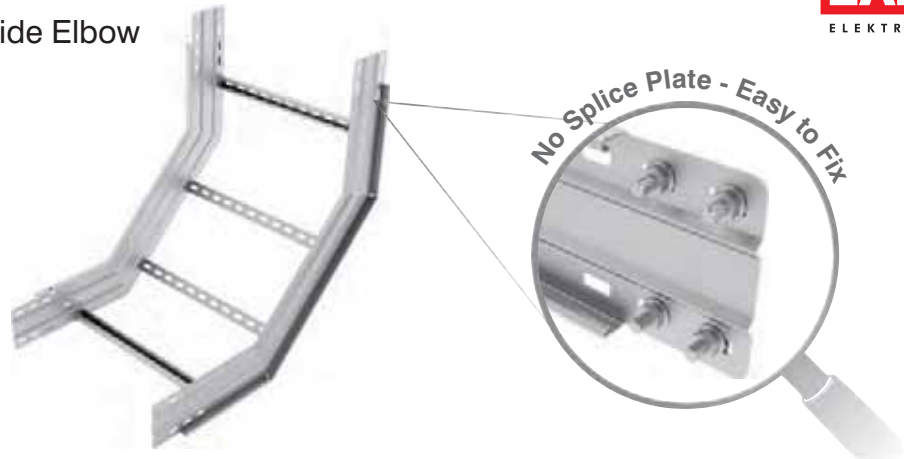
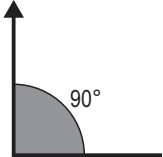
■ Material weights may vary by ± 10%

►► Fittings ID90 Vertical Inside Elbow

ID90



Fitting shown for illustration purposes only. The rung layout shown is typical and will vary on each fitting, depending on width and radius.



| Width (mm) | Radius (mm) | Description | Code | | | | Weight (kg) | | | |
|------------|-------------|-------------------------|---------|---------|---------|---------|-------------|--------|--------|--------|
| | | | ↓100 | ↓125 | ↓150 | ↓200 | ↓100 | ↓125 | ↓150 | ↓200 |
| 150 | 300 | ↓ KCA OG150/ID90/Δ/300 | 3067789 | 3067798 | 3067807 | | 4,613 | 5,573 | 6,426 | |
| | 450 | ↓ KCA OG150/ID90/Δ/450 | 3067929 | 3067938 | 3067947 | | 6,181 | 7,417 | 8,522 | |
| | 600 | ↓ KCA OG150/ID90/Δ/600 | 3068069 | 3068078 | 3068087 | | 7,834 | 9,295 | 10,615 | |
| | 900 | ↓ KCA OG150/ID90/Δ/900 | 3068209 | 3068218 | 3068227 | | 10,838 | 12,825 | 14,572 | |
| 200 | 300 | ↓ KCA OG200/ID90/Δ/300 | 3067790 | 3067799 | 3067808 | 3067816 | 4,737 | 5,696 | 6,549 | 8,472 |
| | 450 | ↓ KCA OG200/ID90/Δ/450 | 3067930 | 3067939 | 3067948 | 3067956 | 6,366 | 7,602 | 8,707 | 11,058 |
| | 600 | ↓ KCA OG200/ID90/Δ/600 | 3068070 | 3068079 | 3068088 | 3068096 | 8,081 | 9,541 | 10,861 | 13,598 |
| | 900 | ↓ KCA OG200/ID90/Δ/900 | 3068210 | 3068219 | 3068228 | 3068236 | 11,146 | 13,133 | 14,880 | 18,519 |
| 300 | 300 | ↓ KCA OG300/ID90/Δ/300 | 3067791 | 3067800 | 3067809 | 3067817 | 4,987 | 5,947 | 7,180 | 9,103 |
| | 450 | ↓ KCA OG300/ID90/Δ/450 | 3067931 | 3067940 | 3067949 | 3067957 | 6,742 | 7,978 | 9,083 | 11,435 |
| | 600 | ↓ KCA OG300/ID90/Δ/600 | 3068071 | 3068080 | 3068089 | 3068097 | 8,582 | 10,043 | 11,363 | 14,100 |
| | 900 | ↓ KCA OG300/ID90/Δ/900 | 3068211 | 3068220 | 3068229 | 3068237 | 11,773 | 13,760 | 15,507 | 19,146 |
| 450 | 300 | ↓ KCA OG450/ID90/Δ/300 | 3067792 | 3067801 | 3067810 | 3067818 | 5,359 | 6,318 | 7,737 | 9,660 |
| | 450 | ↓ KCA OG450/ID90/Δ/450 | 3067932 | 3067941 | 3067950 | 3067958 | 7,300 | 8,536 | 9,640 | 11,992 |
| | 600 | ↓ KCA OG450/ID90/Δ/600 | 3068072 | 3068081 | 3068090 | 3068098 | 9,326 | 10,787 | 12,107 | 14,843 |
| | 900 | ↓ KCA OG450/ID90/Δ/900 | 3068212 | 3068221 | 3068230 | 3068238 | 12,703 | 14,689 | 16,436 | 20,075 |
| 600 | 300 | ↓ KCA OG600/ID90/Δ/300 | 3067793 | 3067802 | 3067811 | 3067819 | 5,733 | 6,692 | 8,298 | 10,221 |
| | 450 | ↓ KCA OG600/ID90/Δ/450 | 3067933 | 3067942 | 3067951 | 3067959 | 7,861 | 9,097 | 10,201 | 12,553 |
| | 600 | ↓ KCA OG600/ID90/Δ/600 | 3068073 | 3068082 | 3068091 | 3068099 | 10,074 | 11,535 | 12,855 | 15,591 |
| | 900 | ↓ KCA OG600/ID90/Δ/900 | 3068213 | 3068222 | 3068231 | 3068239 | 13,638 | 15,624 | 17,371 | 21,010 |
| 750 | 300 | ↓ KCA OG750/ID90/Δ/300 | 3067794 | 3067803 | 3067812 | 3067820 | 7,845 | 8,804 | 9,658 | 11,581 |
| | 450 | ↓ KCA OG750/ID90/Δ/450 | 3067934 | 3067943 | 3067952 | 3067960 | 9,220 | 10,457 | 11,561 | 13,913 |
| | 600 | ↓ KCA OG750/ID90/Δ/600 | 3068074 | 3068083 | 3068092 | 3068100 | 11,887 | 13,347 | 14,667 | 17,404 |
| | 900 | ↓ KCA OG750/ID90/Δ/900 | 3068214 | 3068223 | 3068232 | 3068240 | 15,904 | 17,890 | 19,637 | 23,276 |
| 900 | 300 | ↓ KCA OG900/ID90/Δ/300 | 3067795 | 3067804 | 3067813 | 3067821 | 8,565 | 9,524 | 10,377 | 12,300 |
| | 450 | ↓ KCA OG900/ID90/Δ/450 | 3067935 | 3067944 | 3067953 | 3067961 | 9,940 | 11,176 | 12,280 | 14,632 |
| | 600 | ↓ KCA OG900/ID90/Δ/600 | 3068075 | 3068084 | 3068093 | 3068101 | 12,846 | 14,307 | 15,627 | 18,363 |
| | 900 | ↓ KCA OG900/ID90/Δ/900 | 3068215 | 3068224 | 3068233 | 3068241 | 17,103 | 19,089 | 20,836 | 24,475 |
| 1000 | 300 | ↓ KCA OG1000/ID90/Δ/300 | 3067796 | 3067805 | 3067814 | 3067822 | 9,043 | 10,002 | 10,856 | 12,779 |
| | 450 | ↓ KCA OG1000/ID90/Δ/450 | 3067936 | 3067945 | 3067954 | 3067962 | 10,418 | 11,655 | 12,759 | 15,111 |
| | 600 | ↓ KCA OG1000/ID90/Δ/600 | 3068076 | 3068085 | 3068094 | 3068102 | 13,484 | 14,945 | 16,265 | 19,001 |
| | 900 | ↓ KCA OG1000/ID90/Δ/900 | 3068216 | 3068225 | 3068234 | 3068242 | 17,900 | 19,887 | 21,634 | 25,273 |
| 1100 | 300 | ↓ KCA OG1100/ID90/Δ/300 | 3067797 | 3067806 | 3067815 | 3067823 | 9,522 | 10,481 | 11,334 | 13,257 |
| | 450 | ↓ KCA OG1100/ID90/Δ/450 | 3067937 | 3067946 | 3067955 | 3067963 | 10,897 | 12,133 | 13,237 | 15,589 |
| | 600 | ↓ KCA OG1100/ID90/Δ/600 | 3068077 | 3068086 | 3068095 | 3068103 | 14,122 | 15,583 | 16,903 | 19,639 |
| | 900 | ↓ KCA OG1100/ID90/Δ/900 | 3068217 | 3068226 | 3068235 | 3068243 | 18,698 | 20,684 | 22,431 | 26,070 |



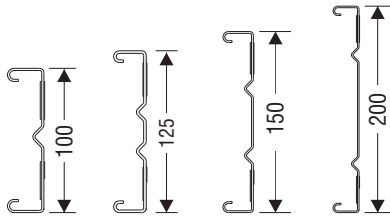
- 16 pcs M10X20 bolt set should be ordered.
- Δ: All products codes and weights given are in kilograms (kg) and are hotdip galvanized (HDG) finish.
- To obtain the appropriate component weight in other finishes, multiply the given weight by the below finish factors.
- Finish factor: HDG (ISO En1461) = (HDG):1 / Stainless Steel = (SS) : 0.94

■ Please indicate order code in your orders.

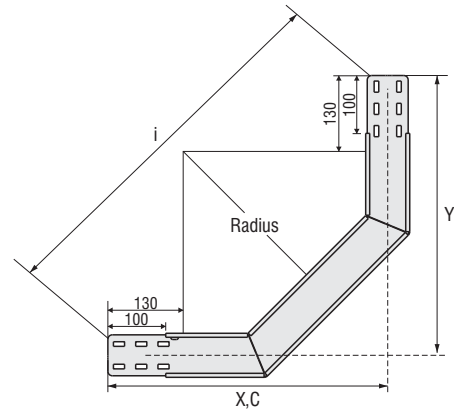
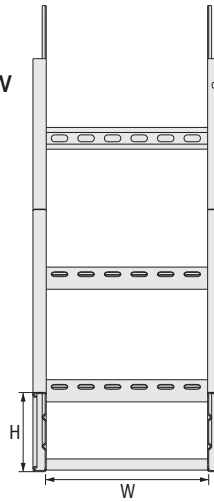
■ Please contact us for special modules.

■ Material weights may vary by ± 10%

Siderail:



2 mm Standard thickness



| No. of Rungs | ↓100/Dimensions (mm) | | | | ↓125/Dimensions (mm) | | | | ↓150/Dimensions (mm) | | | | ↓200/Dimensions (mm) | | | |
|--------------|----------------------|------|------|------|----------------------|------|------|------|----------------------|------|------|------|----------------------|------|------|------|
| | X | Y | i | C | X | Y | i | C | X | Y | i | C | X | Y | i | C |
| 2 | 482 | 482 | 610 | 482 | 493 | 493 | 610 | 493 | 504 | 504 | 607 | 504 | 528 | 528 | 607 | 528 |
| 3 | 629 | 629 | 820 | 629 | 642 | 642 | 820 | 642 | 653 | 653 | 820 | 653 | 680 | 680 | 820 | 680 |
| 4 | 780 | 780 | 1032 | 780 | 792 | 792 | 1032 | 792 | 803 | 803 | 1030 | 803 | 826 | 826 | 1028 | 826 |
| 5 | 1077 | 1077 | 1453 | 1077 | 1092 | 1092 | 1456 | 1092 | 1104 | 1104 | 1456 | 1104 | 1129 | 1129 | 1456 | 1129 |
| 2 | 482 | 482 | 610 | 482 | 493 | 493 | 610 | 493 | 504 | 504 | 607 | 504 | 528 | 528 | 607 | 528 |
| 3 | 629 | 629 | 820 | 629 | 642 | 642 | 820 | 642 | 653 | 653 | 820 | 653 | 680 | 680 | 820 | 680 |
| 4 | 780 | 780 | 1032 | 780 | 792 | 792 | 1032 | 792 | 803 | 803 | 1030 | 803 | 826 | 826 | 1028 | 826 |
| 5 | 1077 | 1077 | 1453 | 1077 | 1092 | 1092 | 1456 | 1092 | 1104 | 1104 | 1456 | 1104 | 1129 | 1129 | 1456 | 1129 |
| 2 | 482 | 482 | 610 | 482 | 493 | 493 | 610 | 493 | 504 | 504 | 607 | 504 | 528 | 528 | 607 | 528 |
| 3 | 629 | 629 | 820 | 629 | 642 | 642 | 820 | 642 | 653 | 653 | 820 | 653 | 680 | 680 | 820 | 680 |
| 4 | 780 | 780 | 1032 | 780 | 792 | 792 | 1032 | 792 | 803 | 803 | 1030 | 803 | 826 | 826 | 1028 | 826 |
| 5 | 1077 | 1077 | 1453 | 1077 | 1092 | 1092 | 1456 | 1092 | 1104 | 1104 | 1456 | 1104 | 1129 | 1129 | 1456 | 1129 |
| 2 | 482 | 482 | 610 | 482 | 493 | 493 | 610 | 493 | 504 | 504 | 607 | 504 | 528 | 528 | 607 | 528 |
| 3 | 629 | 629 | 820 | 629 | 642 | 642 | 820 | 642 | 653 | 653 | 820 | 653 | 680 | 680 | 820 | 680 |
| 4 | 780 | 780 | 1032 | 780 | 792 | 792 | 1032 | 792 | 803 | 803 | 1030 | 803 | 826 | 826 | 1028 | 826 |
| 5 | 1077 | 1077 | 1453 | 1077 | 1092 | 1092 | 1456 | 1092 | 1104 | 1104 | 1456 | 1104 | 1129 | 1129 | 1456 | 1129 |
| 2 | 482 | 482 | 610 | 482 | 493 | 493 | 610 | 493 | 504 | 504 | 607 | 504 | 528 | 528 | 607 | 528 |
| 3 | 629 | 629 | 820 | 629 | 642 | 642 | 820 | 642 | 653 | 653 | 820 | 653 | 680 | 680 | 820 | 680 |
| 4 | 780 | 780 | 1032 | 780 | 792 | 792 | 1032 | 792 | 803 | 803 | 1030 | 803 | 826 | 826 | 1028 | 826 |
| 5 | 1077 | 1077 | 1453 | 1077 | 1092 | 1092 | 1456 | 1092 | 1104 | 1104 | 1456 | 1104 | 1129 | 1129 | 1456 | 1129 |
| 2 | 482 | 482 | 610 | 482 | 493 | 493 | 610 | 493 | 504 | 504 | 607 | 504 | 528 | 528 | 607 | 528 |
| 3 | 629 | 629 | 820 | 629 | 642 | 642 | 820 | 642 | 653 | 653 | 820 | 653 | 680 | 680 | 820 | 680 |
| 4 | 780 | 780 | 1032 | 780 | 792 | 792 | 1032 | 792 | 803 | 803 | 1030 | 803 | 826 | 826 | 1028 | 826 |
| 5 | 1077 | 1077 | 1453 | 1077 | 1092 | 1092 | 1456 | 1092 | 1104 | 1104 | 1456 | 1104 | 1129 | 1129 | 1456 | 1129 |
| 2 | 482 | 482 | 610 | 482 | 493 | 493 | 610 | 493 | 504 | 504 | 607 | 504 | 528 | 528 | 607 | 528 |
| 3 | 629 | 629 | 820 | 629 | 642 | 642 | 820 | 642 | 653 | 653 | 820 | 653 | 680 | 680 | 820 | 680 |
| 4 | 780 | 780 | 1032 | 780 | 792 | 792 | 1032 | 792 | 803 | 803 | 1030 | 803 | 826 | 826 | 1028 | 826 |
| 5 | 1077 | 1077 | 1453 | 1077 | 1092 | 1092 | 1456 | 1092 | 1104 | 1104 | 1456 | 1104 | 1129 | 1129 | 1456 | 1129 |
| 2 | 482 | 482 | 610 | 482 | 493 | 493 | 610 | 493 | 504 | 504 | 607 | 504 | 528 | 528 | 607 | 528 |
| 3 | 629 | 629 | 820 | 629 | 642 | 642 | 820 | 642 | 653 | 653 | 820 | 653 | 680 | 680 | 820 | 680 |
| 4 | 780 | 780 | 1032 | 780 | 792 | 792 | 1032 | 792 | 803 | 803 | 1030 | 803 | 826 | 826 | 1028 | 826 |
| 5 | 1077 | 1077 | 1453 | 1077 | 1092 | 1092 | 1456 | 1092 | 1104 | 1104 | 1456 | 1104 | 1129 | 1129 | 1456 | 1129 |

■ Please check page "73" for the cover selection.

■ Please indicate order code in your orders.

■ Please contact us for special modules.

■ Material weights may vary by ± 10%



| Width (mm) | Radius (mm) | Description | Code | | | | Weight (kg) | | | |
|------------|-------------|-----------------------|---------|---------|---------|---------|-------------|--------|--------|--------|
| | | | ↓100 | ↓125 | ↓150 | ↓200 | ↓100 | ↓125 | ↓150 | ↓200 |
| 150 | 300 | ↓ KCA OG150/YT/Δ/300 | 3068804 | 3068813 | 3068822 | | 8,616 | 9,805 | 11,026 | |
| | 450 | ↓ KCA OG150/YT/Δ/450 | 3068839 | 3068848 | 3068857 | | 11,091 | 12,879 | 14,445 | |
| | 600 | ↓ KCA OG150/YT/Δ/600 | 3068874 | 3068883 | 3068892 | | 13,614 | 15,840 | 17,667 | |
| | 900 | ↓ KCA OG150/YT/Δ/900 | 3068909 | 3068918 | 3068927 | | 18,330 | 22,632 | 24,709 | |
| 200 | 300 | ↓ KCA OG200/YT/Δ/300 | 3068805 | 3068814 | 3068823 | 3068831 | 9,232 | 10,662 | 11,904 | 14,843 |
| | 450 | ↓ KCA OG200/YT/Δ/450 | 3068840 | 3068849 | 3068858 | 3068866 | 11,606 | 13,415 | 14,986 | 18,128 |
| | 600 | ↓ KCA OG200/YT/Δ/600 | 3068875 | 3068884 | 3068893 | 3068901 | 14,191 | 16,440 | 18,288 | 22,097 |
| | 900 | ↓ KCA OG200/YT/Δ/900 | 3068910 | 3068919 | 3068928 | 3068936 | 20,477 | 23,438 | 26,008 | 31,154 |
| 300 | 300 | ↓ KCA OG300/YT/Δ/300 | 3068806 | 3068815 | 3068824 | 3068832 | 10,270 | 11,744 | 13,028 | 15,826 |
| | 450 | ↓ KCA OG300/YT/Δ/450 | 3068841 | 3068850 | 3068859 | 3068867 | 13,113 | 14,972 | 16,587 | 19,815 |
| | 600 | ↓ KCA OG300/YT/Δ/600 | 3068876 | 3068885 | 3068894 | 3068902 | 15,301 | 17,774 | 19,676 | 23,896 |
| | 900 | ↓ KCA OG300/YT/Δ/900 | 3068911 | 3068920 | 3068929 | 3068937 | 22,039 | 25,050 | 27,664 | 32,896 |
| 450 | 300 | ↓ KCA OG450/YT/Δ/300 | 3068807 | 3068816 | 3068825 | 3068833 | 11,789 | 13,334 | 14,684 | 17,375 |
| | 450 | ↓ KCA OG450/YT/Δ/450 | 3068842 | 3068851 | 3068860 | 3068868 | 14,853 | 16,784 | 18,464 | 21,823 |
| | 600 | ↓ KCA OG450/YT/Δ/600 | 3068877 | 3068886 | 3068895 | 3068903 | 17,967 | 20,346 | 22,303 | 26,327 |
| | 900 | ↓ KCA OG450/YT/Δ/900 | 3068912 | 3068921 | 3068930 | 3068938 | 24,307 | 27,424 | 30,073 | 35,433 |
| 600 | 300 | ↓ KCA OG600/YT/Δ/300 | 3068808 | 3068817 | 3068826 | 3068834 | 14,177 | 15,803 | 17,217 | 20,040 |
| | 450 | ↓ KCA OG600/YT/Δ/450 | 3068843 | 3068852 | 3068861 | 3068869 | 17,426 | 19,429 | 21,174 | 24,662 |
| | 600 | ↓ KCA OG600/YT/Δ/600 | 3068878 | 3068887 | 3068896 | 3068904 | 19,863 | 22,315 | 24,335 | 28,490 |
| | 900 | ↓ KCA OG600/YT/Δ/900 | 3068913 | 3068922 | 3068931 | 3068939 | 27,730 | 30,938 | 33,724 | 40,733 |
| 750 | 300 | ↓ KCA OG750/YT/Δ/300 | 3068809 | 3068818 | 3068827 | 3068835 | 17,923 | 19,621 | 21,100 | 24,055 |
| | 450 | ↓ KCA OG750/YT/Δ/450 | 3068844 | 3068853 | 3068862 | 3068870 | 21,693 | 23,772 | 25,582 | 29,200 |
| | 600 | ↓ KCA OG750/YT/Δ/600 | 3068879 | 3068888 | 3068897 | 3068905 | 25,806 | 29,445 | 30,411 | 34,695 |
| | 900 | ↓ KCA OG750/YT/Δ/900 | 3068914 | 3068923 | 3068932 | 3068940 | 33,447 | 36,680 | 39,488 | 45,108 |
| 900 | 300 | ↓ KCA OG900/YT/Δ/300 | 3068810 | 3068819 | 3068828 | 3068836 | 21,569 | 23,334 | 24,879 | 27,958 |
| | 450 | ↓ KCA OG900/YT/Δ/450 | 3068845 | 3068854 | 3068863 | 3068871 | 24,042 | 26,195 | 28,070 | 31,818 |
| | 600 | ↓ KCA OG900/YT/Δ/600 | 3068880 | 3068889 | 3068898 | 3068906 | 28,381 | 30,975 | 33,127 | 37,540 |
| | 900 | ↓ KCA OG900/YT/Δ/900 | 3068915 | 3068924 | 3068933 | 3068941 | 36,494 | 39,801 | 42,673 | 48,424 |
| 1000 | 300 | ↓ KCA OG1000/YT/Δ/300 | 3068811 | 3068820 | 3068829 | 3068837 | 23,158 | 24,974 | 26,562 | 29,730 |
| | 450 | ↓ KCA OG1000/YT/Δ/450 | 3068846 | 3068855 | 3068864 | 3068872 | 25,631 | 27,830 | 29,747 | 33,581 |
| | 600 | ↓ KCA OG1000/YT/Δ/600 | 3068881 | 3068890 | 3068899 | 3068907 | 30,192 | 32,836 | 35,030 | 39,530 |
| | 900 | ↓ KCA OG1000/YT/Δ/900 | 3068916 | 3068925 | 3068934 | 3068942 | 40,295 | 43,655 | 46,570 | 52,406 |
| 1100 | 300 | ↓ KCA OG1100/YT/Δ/300 | 3068812 | 3068821 | 3068830 | 3068838 | 24,698 | 26,565 | 28,196 | 31,450 |
| | 450 | ↓ KCA OG1100/YT/Δ/450 | 3068847 | 3068856 | 3068865 | 3068873 | 29,053 | 31,303 | 33,263 | 37,183 |
| | 600 | ↓ KCA OG1100/YT/Δ/600 | 3068882 | 3068891 | 3068900 | 3068908 | 33,947 | 36,642 | 38,880 | 43,465 |
| | 900 | ↓ KCA OG1100/YT/Δ/900 | 3068917 | 3068926 | 3068935 | 3068943 | 42,494 | 45,903 | 48,862 | 54,784 |



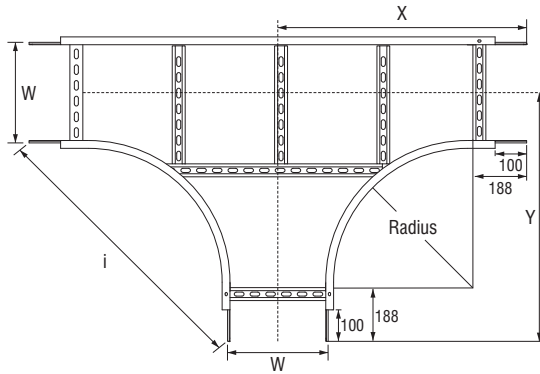
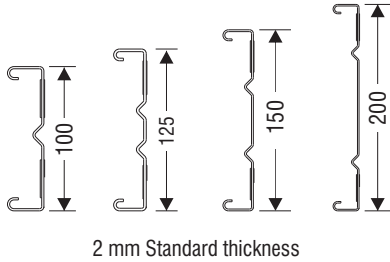
- 24 pcs M10X20 bolt set should be ordered.
- Δ: All products codes and weights given are in kilograms (kg) and are hotdip galvanized (HDG) finish.
- To obtain the appropriate component weight in other finishes, multiply the given weight by the below finish factors.
- Finish factor: HDG (ISO En1461) = (HDG):1 / Stainless Steel = (SS) : 0.94

■ Please indicate order code in your orders.

■ Please contact us for special modules.

■ Material weights may vary by ± 10%

Siderail:



Fitting shown for illustration purposes only. The rung layout shown is typical and will vary on each fitting, depending on width and radius.

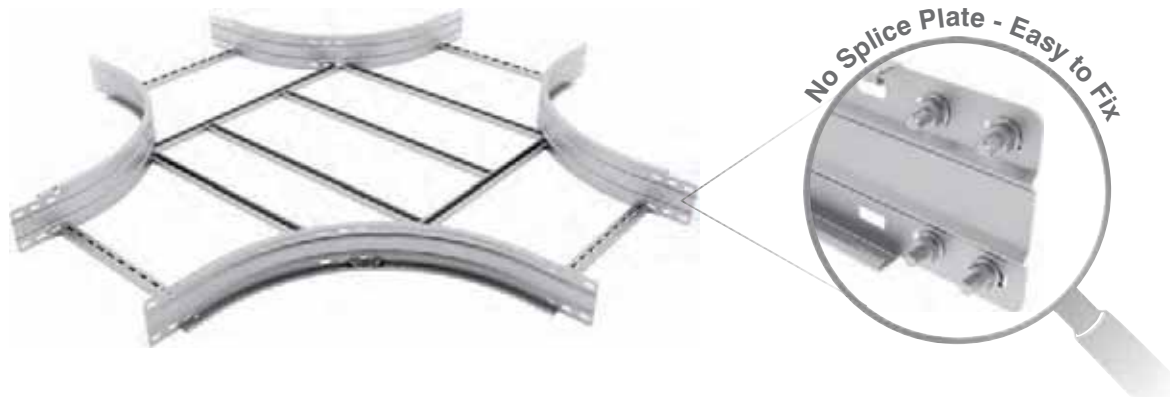
| Description | Dimensions (mm) | | | |
|-----------------------|-----------------|------|------|------|
| | X | Y | i | C |
| ↓ KCA OG150/YT/Δ/300 | 565 | 565 | 690 | 565 |
| ↓ KCA OG150/YT/Δ/450 | 715 | 715 | 902 | 715 |
| ↓ KCA OG150/YT/Δ/600 | 865 | 865 | 1114 | 865 |
| ↓ KCA OG150/YT/Δ/900 | 1165 | 1165 | 1538 | 1165 |
| ↓ KCA OG200/YT/Δ/300 | 590 | 590 | 690 | 590 |
| ↓ KCA OG200/YT/Δ/450 | 740 | 740 | 902 | 740 |
| ↓ KCA OG200/YT/Δ/600 | 890 | 890 | 1114 | 890 |
| ↓ KCA OG200/YT/Δ/900 | 1190 | 1190 | 1538 | 1190 |
| ↓ KCA OG300/YT/Δ/300 | 640 | 640 | 690 | 640 |
| ↓ KCA OG300/YT/Δ/450 | 790 | 790 | 902 | 790 |
| ↓ KCA OG300/YT/Δ/600 | 940 | 940 | 1114 | 940 |
| ↓ KCA OG300/YT/Δ/900 | 1240 | 1240 | 1538 | 1240 |
| ↓ KCA OG450/YT/Δ/300 | 715 | 715 | 690 | 715 |
| ↓ KCA OG450/YT/Δ/450 | 865 | 865 | 902 | 865 |
| ↓ KCA OG450/YT/Δ/600 | 1015 | 1015 | 1114 | 1015 |
| ↓ KCA OG450/YT/Δ/900 | 1315 | 1315 | 1538 | 1315 |
| ↓ KCA OG600/YT/Δ/300 | 790 | 790 | 690 | 1465 |
| ↓ KCA OG600/YT/Δ/450 | 940 | 940 | 902 | 1660 |
| ↓ KCA OG600/YT/Δ/600 | 1090 | 1090 | 1114 | 1855 |
| ↓ KCA OG600/YT/Δ/900 | 1390 | 1390 | 1538 | 2050 |
| ↓ KCA OG750/YT/Δ/300 | 865 | 865 | 690 | 865 |
| ↓ KCA OG750/YT/Δ/450 | 1015 | 1015 | 902 | 1015 |
| ↓ KCA OG750/YT/Δ/600 | 1165 | 1165 | 1114 | 1165 |
| ↓ KCA OG750/YT/Δ/900 | 1465 | 1465 | 1538 | 1465 |
| ↓ KCA OG900/YT/Δ/300 | 940 | 940 | 690 | 940 |
| ↓ KCA OG900/YT/Δ/450 | 1090 | 1090 | 902 | 1090 |
| ↓ KCA OG900/YT/Δ/600 | 1240 | 1240 | 1114 | 1240 |
| ↓ KCA OG900/YT/Δ/900 | 1540 | 1540 | 1538 | 1540 |
| ↓ KCA OG1000/YT/Δ/300 | 990 | 990 | 690 | 990 |
| ↓ KCA OG1000/YT/Δ/450 | 1140 | 1140 | 902 | 1140 |
| ↓ KCA OG1000/YT/Δ/600 | 1290 | 1290 | 1114 | 1290 |
| ↓ KCA OG1000/YT/Δ/900 | 1590 | 1590 | 1538 | 1590 |
| ↓ KCA OG1100/YT/Δ/300 | 1040 | 1040 | 690 | 1040 |
| ↓ KCA OG1100/YT/Δ/450 | 1190 | 1190 | 902 | 1190 |
| ↓ KCA OG1100/YT/Δ/600 | 1340 | 1340 | 1114 | 1340 |
| ↓ KCA OG1100/YT/Δ/900 | 1640 | 1640 | 1538 | 1640 |

■ Please check page “74” for the cover selection.

■ Please indicate order code in your orders.

■ Please contact us for special modules.

■ Material weights may vary by ± 10%

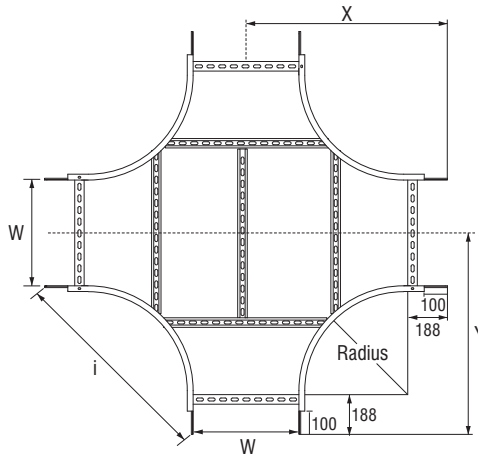
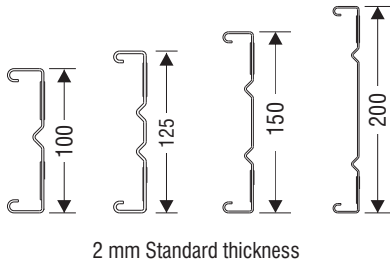


| Width (mm) | Radius (mm) | Description | Code | | | | Weight (kg) | | | |
|------------|-------------|-----------------------|---------|---------|---------|---------|-------------|---------|--------|--------|
| | | | ↓100 | ↓125 | ↓150 | ↓200 | ↓100 | ↓125 | ↓150 | ↓200 |
| 150 | 300 | ↓ KCA OG150/AD/Δ/300 | 3068944 | 3068953 | 3068962 | | 11,191 | 12,413 | 14,066 | |
| | 450 | ↓ KCA OG150/AD/Δ/450 | 3068979 | 3068988 | 3068997 | | 14,239 | 16,395 | 18,256 | |
| | 600 | ↓ KCA OG150/AD/Δ/600 | 3069014 | 3069023 | 3069032 | | 17,558 | 20,189 | 22,473 | |
| | 900 | ↓ KCA OG150/AD/Δ/900 | 3069049 | 3069058 | 3069067 | | 31,125 | 34,716 | 37,804 | |
| 200 | 300 | ↓ KCA OG200/AD/Δ/300 | 3068945 | 3068954 | 3068963 | 3068971 | 11,751 | 13,127 | 14,753 | 17,666 |
| | 450 | ↓ KCA OG200/AD/Δ/450 | 3068980 | 3068989 | 3068998 | 3069006 | 14,799 | 16,955 | 18,816 | 22,552 |
| | 600 | ↓ KCA OG200/AD/Δ/600 | 3069015 | 3069024 | 3069033 | 3069041 | 18,140 | 20,771 | 23,054 | 27,591 |
| | 900 | ↓ KCA OG200/AD/Δ/900 | 3069050 | 3069059 | 3069068 | 3069076 | 32,498 | 36,088 | 39,177 | 45,355 |
| 300 | 300 | ↓ KCA OG300/AD/Δ/300 | 3068946 | 3068955 | 3068964 | 3068972 | 12,874 | 14,564 | 16,024 | 18,937 |
| | 450 | ↓ KCA OG300/AD/Δ/450 | 3068981 | 3068990 | 3068999 | 3069007 | 15,944 | 18,100 | 19,961 | 23,697 |
| | 600 | ↓ KCA OG300/AD/Δ/600 | 3069016 | 3069025 | 3069034 | 3069042 | 19,241 | 21,872 | 24,156 | 28,692 |
| | 900 | ↓ KCA OG300/AD/Δ/900 | 3069051 | 3069060 | 3069069 | 3069077 | 34,610 | 38,200 | 41,289 | 47,467 |
| 450 | 300 | ↓ KCA OG450/AD/Δ/300 | 3068947 | 3068956 | 3068965 | 3068973 | 14,553 | 16,242 | 17,703 | 20,616 |
| | 450 | ↓ KCA OG450/AD/Δ/450 | 3068982 | 3068991 | 3069000 | 3069008 | 17,601 | 19,757 | 21,618 | 25,353 |
| | 600 | ↓ KCA OG450/AD/Δ/600 | 3069017 | 3069026 | 3069035 | 3069043 | 21,916 | 24,547 | 26,831 | 31,367 |
| | 900 | ↓ KCA OG450/AD/Δ/900 | 3069052 | 3069061 | 3069070 | 3069078 | 38,588 | 42,178 | 45,267 | 51,444 |
| 600 | 300 | ↓ KCA OG600/AD/Δ/300 | 3068948 | 3068957 | 3068966 | 3068974 | 17,204 | 18,893 | 20,354 | 23,267 |
| | 450 | ↓ KCA OG600/AD/Δ/450 | 3068983 | 3068992 | 3069001 | 3069009 | 20,369 | 22,525 | 24,387 | 28,122 |
| | 600 | ↓ KCA OG600/AD/Δ/600 | 3069018 | 3069027 | 3069036 | 3069044 | 23,786 | 26,417 | 28,701 | 33,237 |
| | 900 | ↓ KCA OG600/AD/Δ/900 | 3069053 | 3069062 | 3069071 | 3069079 | 41,716 | 45,306 | 48,395 | 54,573 |
| 750 | 300 | ↓ KCA OG750/AD/Δ/300 | 3068949 | 3068958 | 3068967 | 3068975 | 22,092 | 23,782 | 25,242 | 28,155 |
| | 450 | ↓ KCA OG750/AD/Δ/450 | 3068984 | 3068993 | 3069002 | 3069010 | 25,383 | 27,539 | 29,400 | 33,136 |
| | 600 | ↓ KCA OG750/AD/Δ/600 | 3069019 | 3069028 | 3069037 | 3069045 | 29,044 | 31,675 | 33,959 | 38,495 |
| | 900 | ↓ KCA OG750/AD/Δ/900 | 3069054 | 3069063 | 3069072 | 3069080 | 51,103 | 54,694 | 57,783 | 63,960 |
| 900 | 300 | ↓ KCA OG900/AD/Δ/300 | 3068950 | 3068959 | 3068968 | 3068976 | 26,210 | 27,900 | 29,361 | 32,274 |
| | 450 | ↓ KCA OG900/AD/Δ/450 | 3068985 | 3068994 | 3069003 | 3069011 | 29,618 | 31,774 | 33,635 | 37,371 |
| | 600 | ↓ KCA OG900/AD/Δ/600 | 3069020 | 3069029 | 3069038 | 3069046 | 33,440 | 36,071 | 38,354 | 42,891 |
| | 900 | ↓ KCA OG900/AD/Δ/900 | 3069055 | 3069064 | 3069073 | 3069081 | 54,991 | 58,581 | 61,670 | 67,848 |
| 1000 | 300 | ↓ KCA OG1000/AD/Δ/300 | 3068951 | 3068960 | 3068969 | 3068977 | 27,973 | 29,662 | 31,123 | 34,036 |
| | 450 | ↓ KCA OG1000/AD/Δ/450 | 3068986 | 3068995 | 3069004 | 3069012 | 31,380 | 33,536 | 35,398 | 39,133 |
| | 600 | ↓ KCA OG1000/AD/Δ/600 | 3069021 | 3069030 | 3069039 | 3069047 | 35,194 | 37,825 | 40,109 | 44,645 |
| | 900 | ↓ KCA OG1000/AD/Δ/900 | 3069056 | 3069065 | 3069074 | 3069082 | 57,659 | 61,250 | 64,339 | 70,516 |
| 1100 | 300 | ↓ KCA OG1100/AD/Δ/300 | 3068952 | 3068961 | 3068970 | 3068978 | 29,727 | 31,417 | 32,877 | 35,790 |
| | 450 | ↓ KCA OG1100/AD/Δ/450 | 3068987 | 3068996 | 3069005 | 3069013 | 33,135 | 35,291 | 37,152 | 40,888 |
| | 600 | ↓ KCA OG1100/AD/Δ/600 | 3069022 | 3069031 | 3069040 | 3069048 | 36,949 | 39,5802 | 41,863 | 46,400 |
| | 900 | ↓ KCA OG1100/AD/Δ/900 | 3069057 | 3069066 | 3069075 | 3069083 | 60,346 | 63,9364 | 67,025 | 73,202 |



- 32 pcs M10X20 bolt set should be ordered.
- Δ: All products codes and weights given are in kilograms (kg) and are hotdip galvanized (HDG) finish.
- To obtain the appropriate component weight in other finishes, multiply the given weight by the below finish factors.
- Finish factor: HDG (ISO En1461) = (HDG):1 / Stainless Steel = (SS) : 0.94

Siderail:



Fitting shown for illustration purposes only. The rung layout shown is typical and will vary on each fitting, depending on width and radius.

| Description | No. of Rungs | Dimensions (mm) | | | |
|-----------------------|--------------|-----------------|------|------|------|
| | | X | Y | i | C |
| ↓ KCA OG150/AD/Δ/300 | 3 | 565 | 565 | 690 | 565 |
| ↓ KCA OG150/AD/Δ/450 | 4 | 715 | 715 | 902 | 715 |
| ↓ KCA OG150/AD/Δ/600 | 4 | 865 | 865 | 1114 | 865 |
| ↓ KCA OG150/AD/Δ/900 | 5 | 1165 | 1165 | 1538 | 1165 |
| ↓ KCA OG200/AD/Δ/300 | 3 | 590 | 590 | 690 | 590 |
| ↓ KCA OG200/AD/Δ/450 | 4 | 740 | 740 | 902 | 740 |
| ↓ KCA OG200/AD/Δ/600 | 4 | 890 | 890 | 1114 | 890 |
| ↓ KCA OG200/AD/Δ/900 | 5 | 1190 | 1190 | 1538 | 1190 |
| ↓ KCA OG300/AD/Δ/300 | 3 | 640 | 640 | 690 | 640 |
| ↓ KCA OG300/AD/Δ/450 | 4 | 790 | 790 | 902 | 790 |
| ↓ KCA OG300/AD/Δ/600 | 4 | 940 | 940 | 1114 | 940 |
| ↓ KCA OG300/AD/Δ/900 | 5 | 1240 | 1240 | 1538 | 1240 |
| ↓ KCA OG450/AD/Δ/300 | 3 | 715 | 715 | 690 | 715 |
| ↓ KCA OG450/AD/Δ/450 | 4 | 865 | 865 | 902 | 865 |
| ↓ KCA OG450/AD/Δ/600 | 4 | 1015 | 1015 | 1114 | 1015 |
| ↓ KCA OG450/AD/Δ/900 | 5 | 1315 | 1315 | 1538 | 1315 |
| ↓ KCA OG600/AD/Δ/300 | 3 | 790 | 790 | 690 | 1465 |
| ↓ KCA OG600/AD/Δ/450 | 4 | 940 | 940 | 902 | 1660 |
| ↓ KCA OG600/AD/Δ/600 | 4 | 1090 | 1090 | 1114 | 1855 |
| ↓ KCA OG600/AD/Δ/900 | 5 | 1390 | 1390 | 1538 | 2050 |
| ↓ KCA OG750/AD/Δ/300 | 3 | 865 | 865 | 690 | 865 |
| ↓ KCA OG750/AD/Δ/450 | 4 | 1015 | 1015 | 902 | 1015 |
| ↓ KCA OG750/AD/Δ/600 | 4 | 1165 | 1165 | 1114 | 1165 |
| ↓ KCA OG750/AD/Δ/900 | 5 | 1465 | 1465 | 1538 | 1465 |
| ↓ KCA OG900/AD/Δ/300 | 3 | 940 | 940 | 690 | 940 |
| ↓ KCA OG900/AD/Δ/450 | 4 | 1090 | 1090 | 902 | 1090 |
| ↓ KCA OG900/AD/Δ/600 | 4 | 1240 | 1240 | 1114 | 1240 |
| ↓ KCA OG900/AD/Δ/900 | 5 | 1540 | 1540 | 1538 | 1540 |
| ↓ KCA OG1000/AD/Δ/300 | 3 | 990 | 990 | 690 | 990 |
| ↓ KCA OG1000/AD/Δ/450 | 4 | 1140 | 1140 | 902 | 1140 |
| ↓ KCA OG1000/AD/Δ/600 | 4 | 1290 | 1290 | 1114 | 1290 |
| ↓ KCA OG1000/AD/Δ/900 | 5 | 1590 | 1590 | 1538 | 1590 |
| ↓ KCA OG1100/AD/Δ/300 | 3 | 1040 | 1040 | 690 | 1040 |
| ↓ KCA OG1100/AD/Δ/450 | 4 | 1190 | 1190 | 902 | 1190 |
| ↓ KCA OG1100/AD/Δ/600 | 4 | 1340 | 1340 | 1114 | 1340 |
| ↓ KCA OG1100/AD/Δ/900 | 5 | 1640 | 1640 | 1538 | 1640 |

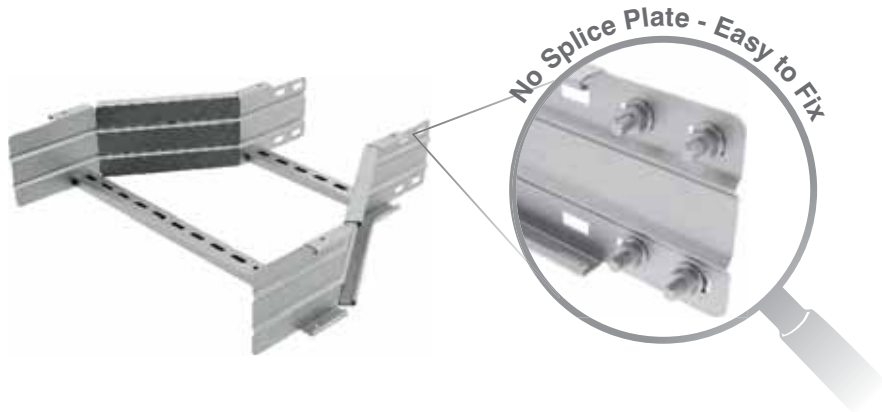
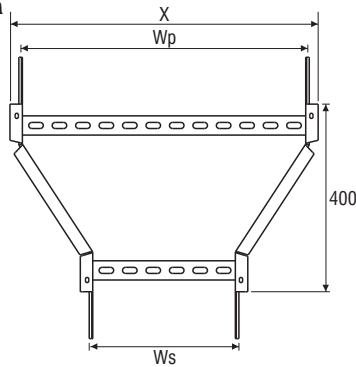
■ Please check page “75” for the cover selection.

■ Please indicate order code in your orders.

■ Please contact us for special modules.

■ Material weights may vary by ± 10%

MR



| Ws (mm) | Wp (mm) | Description | Code | | | | Weight (kg) | | | |
|---------|---------|---------------------------|---------|---------|---------|---------|-------------|-------|-------|-------|
| | | | ↓100 | ↓125 | ↓150 | ↓200 | ↓100 | ↓125 | ↓150 | ↓200 |
| 150 | 200 | ↓ KCA OG 150/200/MR / Δ | 3069356 | 3069392 | 3069428 | | 1,192 | 1,454 | 1,698 | |
| | 300 | ↓ KCA OG 150/300/MR / Δ | 3069357 | 3069393 | 3069429 | | 2,437 | 2,787 | 2,849 | |
| | 450 | ↓ KCA OG 150/450/MR / Δ | 3069358 | 3069394 | 3069430 | | 3,238 | 3,682 | 4,131 | |
| | 600 | ↓ KCA OG 150/600/MR / Δ | 3069359 | 3069395 | 3069431 | | 3,886 | 4,389 | 4,930 | |
| | 750 | ↓ KCA OG 150/750/MR / Δ | 3069360 | 3069396 | 3069432 | | 4,785 | 5,414 | 6,034 | |
| | 900 | ↓ KCA OG 150/900/MR / Δ | 3069361 | 3069397 | 3069433 | | 5,396 | 6,087 | 6,769 | |
| | 1000 | ↓ KCA OG 150/1000/MR / Δ | 3069362 | 3069398 | 3069434 | | 6,297 | 7,102 | 7,899 | |
| 200 | 1100 | ↓ KCA OG 150/1100/MR / Δ | 3069363 | 3069399 | 3069435 | | 6,717 | 7,565 | 8,399 | |
| | 300 | ↓ KCA OG 200/300/MR / Δ | 3069364 | 3069400 | 3069436 | 3069464 | 1,404 | 1,666 | 1,928 | 2,454 |
| | 450 | ↓ KCA OG 200/450/MR / Δ | 3069365 | 3069401 | 3069437 | 3069465 | 2,971 | 3,351 | 3,472 | 4,552 |
| | 600 | ↓ KCA OG 200/600/MR / Δ | 3069366 | 3069402 | 3069438 | 3069466 | 3,831 | 4,308 | 4,801 | 5,787 |
| | 750 | ↓ KCA OG 200/750/MR / Δ | 3069367 | 3069403 | 3069439 | 3069467 | 4,722 | 5,331 | 5,932 | 7,131 |
| | 900 | ↓ KCA OG 200/900/MR / Δ | 3069368 | 3069404 | 3069440 | 3069468 | 5,373 | 6,046 | 6,708 | 8,037 |
| | 1000 | ↓ KCA OG 200/1000/MR / Δ | 3069369 | 3069405 | 3069441 | 3069469 | 5,801 | 6,523 | 7,231 | 8,646 |
| 300 | 1100 | ↓ KCA OG 200/1100/MR / Δ | 3069370 | 3069406 | 3069442 | 3069470 | 6,680 | 7,509 | 8,328 | 9,962 |
| | 450 | ↓ KCA OG 300/450/MR / Δ | 3069371 | 3069407 | 3069443 | 3069471 | 2,917 | 3,267 | 3,328 | 4,367 |
| | 600 | ↓ KCA OG 300/600/MR / Δ | 3069372 | 3069408 | 3069444 | 3069472 | 3,370 | 3,751 | 4,151 | 4,954 |
| | 750 | ↓ KCA OG 300/750/MR / Δ | 3069373 | 3069409 | 3069445 | 3069473 | 4,367 | 4,868 | 5,409 | 6,413 |
| | 900 | ↓ KCA OG 300/900/MR / Δ | 3069374 | 3069410 | 3069446 | 3069474 | 5,007 | 5,583 | 6,162 | 7,321 |
| 450 | 1000 | ↓ KCA OG 300/1000/MR / Δ | 3069375 | 3069411 | 3069447 | 3069475 | 5,721 | 6,396 | 7,065 | 8,402 |
| | 1100 | ↓ KCA OG 300/1100/MR / Δ | 3069376 | 3069412 | 3069448 | 3069476 | 6,120 | 6,842 | 7,550 | 8,965 |
| | 600 | ↓ KCA OG 450/600/MR / Δ | 3069377 | 3069413 | 3069449 | 3069477 | 3,423 | 3,605 | 3,847 | 5,255 |
| | 750 | ↓ KCA OG 450/750/MR / Δ | 3069378 | 3069414 | 3069450 | 3069478 | 4,331 | 4,791 | 5,262 | 6,206 |
| | 900 | ↓ KCA OG 450/900/MR / Δ | 3069379 | 3069415 | 3069451 | 3069479 | 4,978 | 5,504 | 6,041 | 7,114 |
| 600 | 1000 | ↓ KCA OG 450/1000/MR / Δ | 3069380 | 3069416 | 3069452 | 3069480 | 5,406 | 5,982 | 6,561 | 7,720 |
| | 1100 | ↓ KCA OG 450/1100/MR / Δ | 3069381 | 3069417 | 3069453 | 3069481 | 5,823 | 6,452 | 7,073 | 8,316 |
| | 750 | ↓ KCA OG 600/750/MR / Δ | 3069382 | 3069418 | 3069454 | 3069482 | 3,876 | 4,226 | 4,287 | 5,326 |
| | 900 | ↓ KCA OG 600/900/MR / Δ | 3069383 | 3069419 | 3069455 | 3069483 | 4,329 | 4,710 | 5,110 | 5,913 |
| 750 | 1000 | ↓ KCA OG 600/1000/MR / Δ | 3069384 | 3069420 | 3069456 | 3069484 | 5,109 | 5,586 | 6,079 | 7,065 |
| | 1100 | ↓ KCA OG 600/1100/MR / Δ | 3069385 | 3069421 | 3069457 | 3069485 | 5,537 | 6,063 | 6,600 | 7,673 |
| | 900 | ↓ KCA OG 750/900/MR / Δ | 3069386 | 3069422 | 3069458 | 3069486 | 4,356 | 4,705 | 4,767 | 5,805 |
| 900 | 1000 | ↓ KCA OG 750/1000/MR / Δ | 3069387 | 3069423 | 3069459 | 3069487 | 5,210 | 5,846 | 6,141 | 7,254 |
| | 1100 | ↓ KCA OG 750/1100/MR / Δ | 3069388 | 3069424 | 3069460 | 3069488 | 5,260 | 5,830 | 6,300 | 8,734 |
| 1000 | 1000 | ↓ KCA OG 900/1000/MR / Δ | 3069389 | 3069425 | 3069461 | 3069489 | 4,504 | 4,884 | 4,980 | 6,057 |
| | 1100 | ↓ KCA OG 900/1100/MR / Δ | 3069390 | 3069426 | 3069462 | 3069490 | 4,941 | 5,346 | 6,253 | 7,572 |
| 1000 | 1100 | ↓ KCA OG 1000/1100/MR / Δ | 3069391 | 3069427 | 3069463 | 3069491 | 5,420 | 5,944 | 6,406 | 8,832 |



- 16 pcs M10X20 bolt set should be ordered.
- Δ: All products codes and weights given are in kilograms (kg) and are hotdip galvanized (HDG) finish.
- To obtain the appropriate component weight in other finishes, multiply the given weight by the below finish factors.
- Finish factor: HDG (ISO En1461) = (HDG):1 / Stainless Steel = (SS) : 0.94

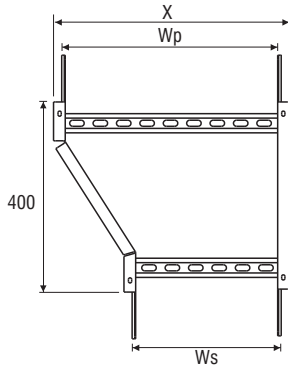
■ Please check page "76" for the cover selection.

■ Please indicate order code in your orders.

■ Please contact us for special modules.

■ Material weights may vary by ± 10%

LR



No Splice Plate - Easy to Fix

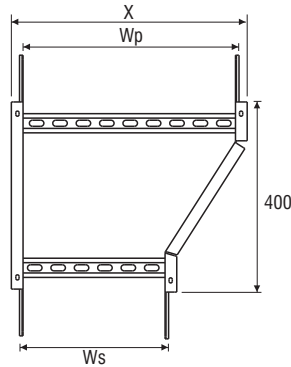


| Ws (mm) | Wp (mm) | Description | Code | | | | Weight (kg) | | | |
|---------|---------|---------------------------|---------|---------|---------|---------|-------------|-------|--------|--------|
| | | | ↓100 | ↓125 | ↓150 | ↓200 | ↓100 | ↓125 | ↓150 | ↓200 |
| 150 | 200 | ↓ KCA OG 150/200/LR / Δ | 3069220 | 3069256 | 3069292 | | 1,405 | 1,536 | 1,786 | |
| | 300 | ↓ KCA OG 150/300/LR / Δ | 3069221 | 3069257 | 3069293 | | 2,296 | 2,751 | 3,103 | |
| | 450 | ↓ KCA OG 150/450/LR / Δ | 3069222 | 3069258 | 3069294 | | 3,393 | 3,920 | 4,393 | |
| | 600 | ↓ KCA OG 150/600/LR / Δ | 3069223 | 3069259 | 3069295 | | 4,818 | 5,549 | 6,206 | |
| | 750 | ↓ KCA OG 150/750/LR / Δ | 3069224 | 3069260 | 3069296 | | 5,808 | 6,672 | 7,443 | |
| | 900 | ↓ KCA OG 150/900/LR / Δ | 3069225 | 3069261 | 3069297 | | 6,947 | 7,957 | 8,862 | |
| | 1000 | ↓ KCA OG 150/1000/LR / Δ | 3069226 | 3069262 | 3069298 | | 7,751 | 8,873 | 9,875 | |
| 200 | 1100 | ↓ KCA OG 150/1100/LR / Δ | 3069227 | 3069263 | 3069299 | | 8,570 | 9,807 | 10,909 | |
| | 300 | ↓ KCA OG 200/300/LR / Δ | 3069228 | 3069264 | 3069300 | 3069328 | 2,366 | 2,704 | 3,084 | 3,198 |
| | 450 | ↓ KCA OG 200/450/LR / Δ | 3069229 | 3069265 | 3069301 | 3069329 | 3,339 | 3,841 | 4,293 | 5,197 |
| | 600 | ↓ KCA OG 200/600/LR / Δ | 3069230 | 3069266 | 3069302 | 3069330 | 4,754 | 5,461 | 6,096 | 7,367 |
| | 750 | ↓ KCA OG 200/750/LR / Δ | 3069231 | 3069267 | 3069303 | 3069331 | 5,759 | 6,601 | 7,353 | 8,856 |
| | 900 | ↓ KCA OG 200/900/LR / Δ | 3069232 | 3069268 | 3069304 | 3069332 | 6,883 | 7,869 | 8,752 | 10,519 |
| | 1000 | ↓ KCA OG 200/1000/LR / Δ | 3069233 | 3069269 | 3069305 | 3069333 | 7,687 | 8,785 | 9,765 | 11,727 |
| 300 | 1100 | ↓ KCA OG 200/1100/LR / Δ | 3069234 | 3069270 | 3069306 | 3069334 | 8,507 | 9,719 | 10,799 | 12,960 |
| | 450 | ↓ KCA OG 300/450/LR / Δ | 3069235 | 3069271 | 3069307 | 3069335 | 3,064 | 3,230 | 3,582 | 4,285 |
| | 600 | ↓ KCA OG 300/600/LR / Δ | 3069236 | 3069272 | 3069308 | 3069336 | 4,222 | 4,808 | 5,333 | 6,387 |
| | 750 | ↓ KCA OG 300/750/LR / Δ | 3069237 | 3069273 | 3069309 | 3069337 | 5,297 | 6,029 | 6,685 | 8,000 |
| | 900 | ↓ KCA OG 300/900/LR / Δ | 3069238 | 3069274 | 3069310 | 3069338 | 6,287 | 7,152 | 7,923 | 9,465 |
| 450 | 1000 | ↓ KCA OG 300/1000/LR / Δ | 3069239 | 3069275 | 3069311 | 3069339 | 7,202 | 8,188 | 9,071 | 10,838 |
| | 1100 | ↓ KCA OG 300/1100/LR / Δ | 3069240 | 3069276 | 3069312 | 3069340 | 8,006 | 9,104 | 10,084 | 12,046 |
| | 600 | ↓ KCA OG 450/600/LR / Δ | 3069241 | 3069277 | 3069313 | 3069341 | 2,711 | 3,710 | 4,062 | 4,765 |
| | 750 | ↓ KCA OG 450/750/LR / Δ | 3069242 | 3069278 | 3069314 | 3069342 | 4,702 | 5,287 | 5,813 | 6,867 |
| | 900 | ↓ KCA OG 450/900/LR / Δ | 3069243 | 3069279 | 3069315 | 3069343 | 5,777 | 6,508 | 7,165 | 8,479 |
| 600 | 1000 | ↓ KCA OG 450/1000/LR / Δ | 3069244 | 3069280 | 3069316 | 3069344 | 6,558 | 7,399 | 8,152 | 9,654 |
| | 1100 | ↓ KCA OG 450/1100/LR / Δ | 3069245 | 3069281 | 3069317 | 3069345 | 6,989 | 7,879 | 8,672 | 10,257 |
| | 750 | ↓ KCA OG 600/750/LR / Δ | 3069246 | 3069282 | 3069318 | 3069346 | 3,830 | 4,189 | 4,541 | 5,244 |
| | 900 | ↓ KCA OG 600/900/LR / Δ | 3069247 | 3069283 | 3069319 | 3069347 | 4,832 | 5,359 | 5,832 | 6,779 |
| 750 | 1000 | ↓ KCA OG 600/1000/LR / Δ | 3069248 | 3069284 | 3069320 | 3069348 | 5,611 | 6,241 | 6,811 | 7,950 |
| | 1100 | ↓ KCA OG 600/1100/LR / Δ | 3069249 | 3069285 | 3069321 | 3069349 | 6,479 | 7,236 | 7,914 | 9,271 |
| | 900 | ↓ KCA OG 750/900/LR / Δ | 3069250 | 3069286 | 3069322 | 3069350 | 4,069 | 4,669 | 5,021 | 5,724 |
| 900 | 1000 | ↓ KCA OG 750/1000/LR / Δ | 3069251 | 3069287 | 3069323 | 3069351 | 5,097 | 5,497 | 6,051 | 6,955 |
| | 1100 | ↓ KCA OG 750/1100/LR / Δ | 3069252 | 3069288 | 3069324 | 3069352 | 5,876 | 6,463 | 7,029 | 8,125 |
| 1000 | 1000 | ↓ KCA OG 900/1000/LR / Δ | 3069253 | 3069289 | 3069325 | 3069353 | 4,603 | 5,069 | 5,321 | 6,517 |
| | 1100 | ↓ KCA OG 900/1100/LR / Δ | 3069254 | 3069290 | 3069326 | 3069354 | 5,362 | 5,480 | 6,270 | 7,130 |
| 1000 | 1100 | ↓ KCA OG 1000/1100/LR / Δ | 3069255 | 3069291 | 3069327 | 3069355 | 4,922 | 5,475 | 5,640 | 6,836 |



- 16 pcs M10X20 bolt set should be ordered.
- Δ: All products codes and weights given are in kilograms (kg) and are hotdip galvanized (HDG) finish.
- To obtain the appropriate component weight in other finishes, multiply the given weight by the below finish factors.
- Finish factor: HDG (ISO En1461) = (HDG):1 / Stainless Steel = (SS) : 0.94

■ Please check page "77" for the cover selection. ■ Please indicate order code in your orders. ■ Please contact us for special modules. ■ Material weights may vary by ± 10%



| Ws (mm) | Wp (mm) | Description | Code | | | | Weight (kg) | | | |
|---------|---------|---------------------------|---------|---------|---------|---------|-------------|-------|--------|--------|
| | | | ↓100 | ↓125 | ↓150 | ↓200 | ↓100 | ↓125 | ↓150 | ↓200 |
| 150 | 200 | ↓ KCA OG 150/200/RR / Δ | 3069084 | 3069120 | 3069156 | | 1,405 | 1,536 | 1,786 | |
| | 300 | ↓ KCA OG 150/300/RR / Δ | 3069085 | 3069121 | 3069157 | | 2,296 | 2,751 | 3,103 | |
| | 450 | ↓ KCA OG 150/450/RR / Δ | 3069086 | 3069122 | 3069158 | | 3,393 | 3,920 | 4,393 | |
| | 600 | ↓ KCA OG 150/600/RR / Δ | 3069087 | 3069123 | 3069159 | | 4,818 | 5,549 | 6,206 | |
| | 750 | ↓ KCA OG 150/750/RR / Δ | 3069088 | 3069124 | 3069160 | | 5,808 | 6,672 | 7,443 | |
| | 900 | ↓ KCA OG 150/900/RR / Δ | 3069089 | 3069125 | 3069161 | | 6,947 | 7,957 | 8,862 | |
| | 1000 | ↓ KCA OG 150/1000/RR / Δ | 3069090 | 3069126 | 3069162 | | 7,751 | 8,873 | 9,875 | |
| 200 | 1100 | ↓ KCA OG 150/1100/RR / Δ | 3069091 | 3069127 | 3069163 | | 8,570 | 9,807 | 10,909 | |
| | 300 | ↓ KCA OG 200/300/RR / Δ | 3069092 | 3069128 | 3069164 | 3069192 | 2,366 | 2,704 | 3,084 | 3,198 |
| | 450 | ↓ KCA OG 200/450/RR / Δ | 3069093 | 3069129 | 3069165 | 3069193 | 3,339 | 3,841 | 4,293 | 5,197 |
| | 600 | ↓ KCA OG 200/600/RR / Δ | 3069094 | 3069130 | 3069166 | 3069194 | 4,754 | 5,461 | 6,096 | 7,367 |
| | 750 | ↓ KCA OG 200/750/RR / Δ | 3069095 | 3069131 | 3069167 | 3069195 | 5,759 | 6,601 | 7,353 | 8,856 |
| | 900 | ↓ KCA OG 200/900/RR / Δ | 3069096 | 3069132 | 3069168 | 3069196 | 6,883 | 7,869 | 8,752 | 10,519 |
| | 1000 | ↓ KCA OG 200/1000/RR / Δ | 3069097 | 3069133 | 3069169 | 3069197 | 7,687 | 8,785 | 9,765 | 11,727 |
| 300 | 1100 | ↓ KCA OG 200/1100/RR / Δ | 3069098 | 3069134 | 3069170 | 3069198 | 8,507 | 9,719 | 10,799 | 12,960 |
| | 450 | ↓ KCA OG 300/450/RR / Δ | 3069099 | 3069135 | 3069171 | 3069199 | 3,064 | 3,230 | 3,582 | 4,285 |
| | 600 | ↓ KCA OG 300/600/RR / Δ | 3069100 | 3069136 | 3069172 | 3069200 | 4,222 | 4,808 | 5,333 | 6,387 |
| | 750 | ↓ KCA OG 300/750/RR / Δ | 3069101 | 3069137 | 3069173 | 3069201 | 5,297 | 6,029 | 6,685 | 8,000 |
| | 900 | ↓ KCA OG 300/900/RR / Δ | 3069102 | 3069138 | 3069174 | 3069202 | 6,287 | 7,152 | 7,923 | 9,465 |
| 450 | 1000 | ↓ KCA OG 300/1000/RR / Δ | 3069103 | 3069139 | 3069175 | 3069203 | 7,202 | 8,188 | 9,071 | 10,838 |
| | 1100 | ↓ KCA OG 300/1100/RR / Δ | 3069104 | 3069140 | 3069176 | 3069204 | 8,006 | 9,104 | 10,084 | 12,046 |
| | 600 | ↓ KCA OG 450/600/RR / Δ | 3069105 | 3069141 | 3069177 | 3069205 | 2,711 | 3,710 | 4,062 | 4,765 |
| | 750 | ↓ KCA OG 450/750/RR / Δ | 3069106 | 3069142 | 3069178 | 3069206 | 4,702 | 5,287 | 5,813 | 6,867 |
| | 900 | ↓ KCA OG 450/900/RR / Δ | 3069107 | 3069143 | 3069179 | 3069207 | 5,777 | 6,508 | 7,165 | 8,479 |
| 600 | 1000 | ↓ KCA OG 450/1000/RR / Δ | 3069108 | 3069144 | 3069180 | 3069208 | 6,558 | 7,399 | 8,152 | 9,654 |
| | 1100 | ↓ KCA OG 450/1100/RR / Δ | 3069109 | 3069145 | 3069181 | 3069209 | 6,989 | 7,879 | 8,672 | 10,257 |
| | 750 | ↓ KCA OG 600/750/RR / Δ | 3069110 | 3069146 | 3069182 | 3069210 | 3,830 | 4,189 | 4,541 | 5,244 |
| | 900 | ↓ KCA OG 600/900/RR / Δ | 3069111 | 3069147 | 3069183 | 3069211 | 4,832 | 5,359 | 5,832 | 6,779 |
| 750 | 1000 | ↓ KCA OG 600/1000/RR / Δ | 3069112 | 3069148 | 3069184 | 3069212 | 5,611 | 6,241 | 6,811 | 7,950 |
| | 1100 | ↓ KCA OG 600/1100/RR / Δ | 3069113 | 3069149 | 3069185 | 3069213 | 6,479 | 7,236 | 7,914 | 9,271 |
| | 900 | ↓ KCA OG 750/900/RR / Δ | 3069114 | 3069150 | 3069186 | 3069214 | 4,069 | 4,669 | 5,021 | 5,724 |
| 900 | 1000 | ↓ KCA OG 750/1000/RR / Δ | 3069115 | 3069151 | 3069187 | 3069215 | 5,097 | 5,497 | 6,051 | 6,955 |
| | 1100 | ↓ KCA OG 750/1100/RR / Δ | 3069116 | 3069152 | 3069188 | 3069216 | 5,876 | 6,463 | 7,029 | 8,125 |
| 1000 | 1000 | ↓ KCA OG 900/1000/RR / Δ | 3069117 | 3069153 | 3069189 | 3069217 | 4,603 | 5,069 | 5,321 | 6,517 |
| | 1100 | ↓ KCA OG 900/1100/RR / Δ | 3069118 | 3069154 | 3069190 | 3069218 | 5,362 | 5,480 | 6,270 | 7,130 |
| 1000 | 1100 | ↓ KCA OG 1000/1100/RR / Δ | 3069119 | 3069155 | 3069191 | 3069219 | 4,922 | 5,475 | 5,640 | 6,836 |



- 16 pcs M10X20 bolt set should be ordered.
- Δ: All products codes and weights given are in kilograms (kg) and are hotdip galvanized (HDG) finish.
- To obtain the appropriate component weight in other finishes, multiply the given weight by the below finish factors.
- Finish factor: HDG (ISO En1461) = (HDG):1 / Stainless Steel = (SS) : 0.94

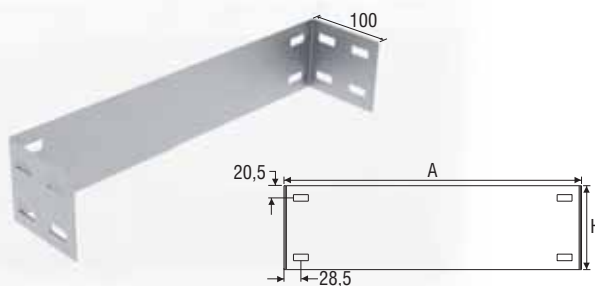
■ Please check page "78" for the cover selection.

■ Please indicate order code in your orders.

■ Please contact us for special modules.

■ Material weights may vary by ± 10%

| Description | A (mm) | Code | Weight (kg) |
|----------------------|--------|---------|-------------|
| 100 KCAOG/END/150/Δ | 150 | 3070505 | 0,482 |
| 100 KCAOG/END/200/Δ | 200 | 3070506 | 0,561 |
| 100 KCAOG/END/300/Δ | 300 | 3070507 | 0,718 |
| 100 KCAOG/END/450/Δ | 450 | 3070508 | 0,953 |
| 100 KCAOG/END/600/Δ | 600 | 3070509 | 1,190 |
| 100 KCAOG/END/750/Δ | 750 | 3070510 | 1,425 |
| 100 KCAOG/END/900/Δ | 900 | 3070511 | 1,661 |
| 100 KCAOG/END/1000/Δ | 1000 | 3070512 | 1,818 |
| 100 KCAOG/END/1100/Δ | 1100 | 3070513 | 1,975 |



| Description | A (mm) | Code | Weight (kg) |
|----------------------|--------|---------|-------------|
| 125 KCAOG/END/150/Δ | 150 | 3070514 | 0,631 |
| 125 KCAOG/END/200/Δ | 200 | 3070515 | 0,731 |
| 125 KCAOG/END/300/Δ | 300 | 3070516 | 0,931 |
| 125 KCAOG/END/450/Δ | 450 | 3070517 | 1,232 |
| 125 KCAOG/END/600/Δ | 600 | 3070518 | 1,532 |
| 125 KCAOG/END/750/Δ | 750 | 3070519 | 1,832 |
| 125 KCAOG/END/900/Δ | 900 | 3070520 | 2,132 |
| 125 KCAOG/END/1000/Δ | 1000 | 3070521 | 2,334 |
| 125 KCAOG/END/1100/Δ | 1100 | 3070522 | 2,534 |



| Description | A (mm) | Code | Weight (kg) |
|----------------------|--------|---------|-------------|
| 150 KCAOG/END/150/Δ | 150 | 3070523 | 0,778 |
| 150 KCAOG/END/200/Δ | 200 | 3070524 | 0,900 |
| 150 KCAOG/END/300/Δ | 300 | 3070525 | 1,144 |
| 150 KCAOG/END/450/Δ | 450 | 3070526 | 1,509 |
| 150 KCAOG/END/600/Δ | 600 | 3070527 | 1,874 |
| 150 KCAOG/END/750/Δ | 750 | 3070528 | 2,240 |
| 150 KCAOG/END/900/Δ | 900 | 3070529 | 2,605 |
| 150 KCAOG/END/1000/Δ | 1000 | 3070530 | 2,849 |
| 150 KCAOG/END/1100/Δ | 1100 | 3070531 | 3,092 |



| Description | A (mm) | Code | Weight (kg) |
|----------------------|--------|---------|-------------|
| 200 KCAOG/END/200/Δ | 200 | 3070532 | 1,240 |
| 200 KCAOG/END/300/Δ | 300 | 3070533 | 1,570 |
| 200 KCAOG/END/450/Δ | 450 | 3070534 | 2,064 |
| 200 KCAOG/END/600/Δ | 600 | 3070535 | 2,559 |
| 200 KCAOG/END/750/Δ | 750 | 3070536 | 3,054 |
| 200 KCAOG/END/900/Δ | 900 | 3070537 | 3,549 |
| 200 KCAOG/END/1000/Δ | 1000 | 3070538 | 3,879 |
| 200 KCAOG/END/1100/Δ | 1100 | 3070539 | 4,209 |



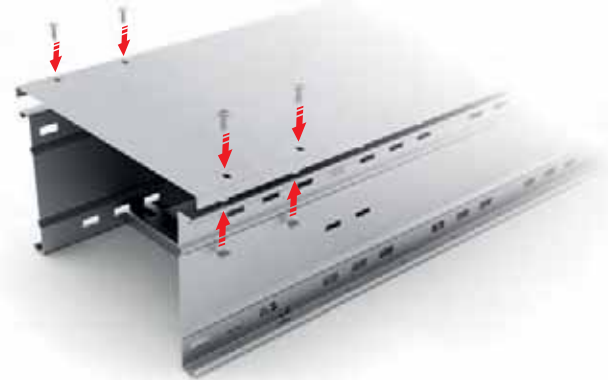
- 4 pcs M10X20 bolt set should be ordered.
- Δ: All products codes and weights given are in kilograms (kg) and are hotdip galvanized (HDG) finish.
- To obtain the appropriate component weight in other finishes, multiply the given weight by the below finish factors.
- Finish factor: HDG (ISO En1461) = (HDG):1 / Stainless Steel = (SS) : 0.94

■ Please indicate order code in your orders.

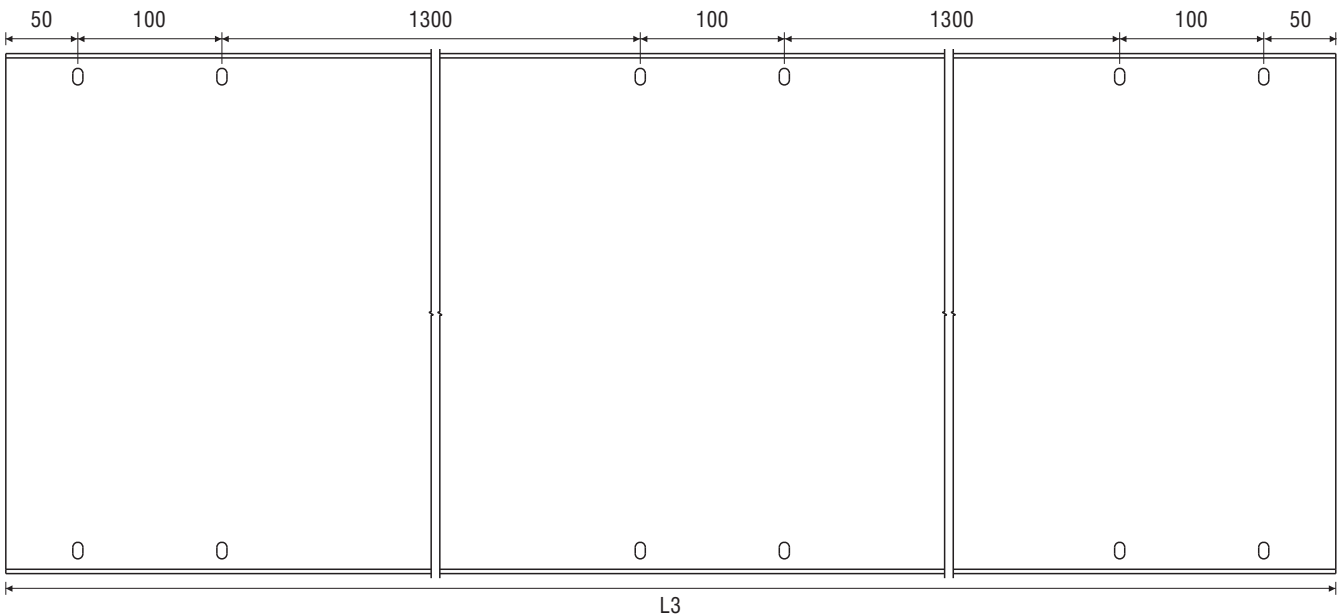
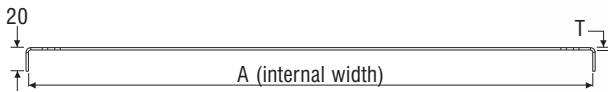
■ Please contact us for special modules.

■ Material weights may vary by ± 10%

| Description | Code | A | Weight (kg/m) | M6x12 Cover Fixing Set |
|------------------|---------|------|---------------|------------------------|
| KCAOGK/150/L3/Δ | 3069562 | 210 | 3,050 | 12 |
| KCAOGK/200/L3/Δ | 3069563 | 260 | 3,700 | 12 |
| KCAOGK/300/L3/Δ | 3069564 | 360 | 5,000 | 12 |
| KCAOGK/450/L3/Δ | 3069565 | 510 | 9,220 | 12 |
| KCAOGK/600/L3/Δ | 3069566 | 660 | 11,810 | 12 |
| KCAOGK/750/L3/Δ | 3069567 | 810 | 14,410 | 12 |
| KCAOGK/900/L3/Δ | 3069568 | 960 | 17,000 | 12 |
| KCAOGK/1000/L3/Δ | 3069569 | 1060 | 18,720 | 12 |
| KCAOGK/1100/L3/Δ | 3069570 | 1160 | 20,450 | 12 |



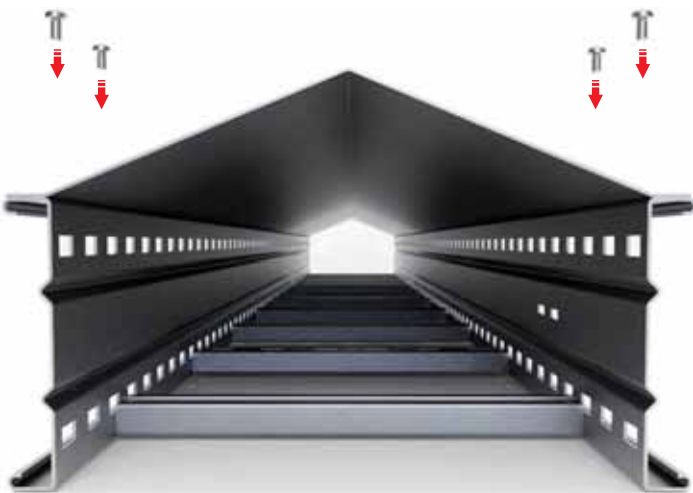
- T: 1.5mm up to 300 mm width
- Over 300mm is T: 2mm
- Standard length: 3000mm
- Over 600mm width cover, Asu profile should be ordered.



- 12 pcs M6X12 pan head bolt set should be ordered. Per 3mt. cover.
- Δ: All products codes and weights given are in kilograms (kg) and are hotdip galvanized (HDG) finish.
- To obtain the appropriate component weight in other finishes, multiply the given weight by the below finish factors.
- Finish factor: HDG (ISO En1461) = (HDG):1 / Stainless Steel = (SS) : 0.94

■ Please indicate order code in your orders. ■ Please contact us for special modules. ■ Material weights may vary by ± 10%

| Description | Code | Weight (kg/m) | M6X12 Civata+Somun (Adet) |
|---------------------------|---------|---------------|---------------------------|
| KCAOG/150/L3/Slope COVER | 3106204 | 3,580 | 16 |
| KCAOG/200/L3/Slope COVER | 3106205 | 4,510 | 16 |
| KCAOG/300/L3/Slope COVER | 3106206 | 6,380 | 16 |
| KCAOG/450/L3/Slope COVER | 3106207 | 9,200 | 16 |
| KCAOG/600/L3/Slope COVER | 3106208 | 11,990 | 16 |
| KCAOG/750/L3/Slope COVER | 3106209 | 14,790 | 16 |
| KCAOG/900/L3/Slope COVER | 3106210 | 17,600 | 16 |
| KCAOG/1000/L3/Slope COVER | 3106211 | 19,470 | 16 |
| KCAOG/1100/L3/Slope COVER | 3106212 | 21,340 | 16 |



- 1 pcs M10X20 & 1 pcs M6X12 bolt pan head bolt set should be ordered.
- Δ: All products codes and weights given are in kilograms (kg) and are hotdip galvanized (HDG) finish.
- To obtain the appropriate component weight in other finishes, multiply the given weight by the below finish factors.
- Finish factor: HDG (ISO En1461) = (HDG):1 / Stainless Steel = (SS) : 0.94

■ Please indicate order code in your orders.

■ Please contact us for special modules.

■ Material weights may vary by ± 10%

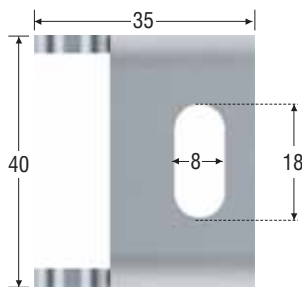
| Description | Code | Weight (kg) |
|------------------|---------|-------------|
| KCA OG / ELV / Δ | 2044398 | 0,076 |

■ Cover elevation bracket for air ventilation

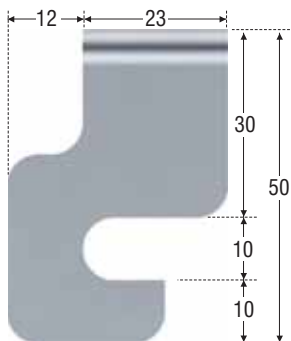


| Tray & Fitting Type | Width | |
|---------------------|-----------------|------------------|
| | 50 mm to 150 mm | 200 mm to 300 mm |
| Straight Tray | 6 | 6 |
| 90° Flat Elbow | 4 | 4 |
| 60° Flat Elbow | 4 | 4 |
| 45° Flat Elbow | 4 | 4 |
| 30° Flat Elbow | 4 | 4 |
| Reducers | 4 | 4 |

Up view



Side view



- 1 pcs M10X20 & 1 pcs M6X12 bolt pan head should be ordered.
- Δ: All products codes and weights given are in kilograms (kg) and are hotdip galvanized (HDG) finish.
- To obtain the appropriate component weight in other finishes, multiply the given weight by the below finish factors.
- Finish factor: HDG (ISO En1461) = (HDG):1 / Stainless Steel = (SS) : 0.94

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E-LINE CABLE SUPPORT SYSTEMS



Please check our latest version of full range catalogue from our website.
www.eae.com.tr

UKS-UKFE Pre-galvanized UKS-UKFE Cable Tray Systems

UKFG-C Pre-galvanized UKFG-C Cable Tray Systems

KM Pre-galvanized Foldable Cable Ladders

TKS Pre-galvanized - Hot Dip Galvanized Trunking Systems

KMH-KMA Hot Dip Galvanized After Fabrication
KMH-KMA Cable Ladder and Modules

CT Hot Dip Galvanized After Fabrication
CTHF-E-CTN-CTH-CTA Cable Tray Systems

CTK Hot Dip Galvanized CTK Cable Tray Systems

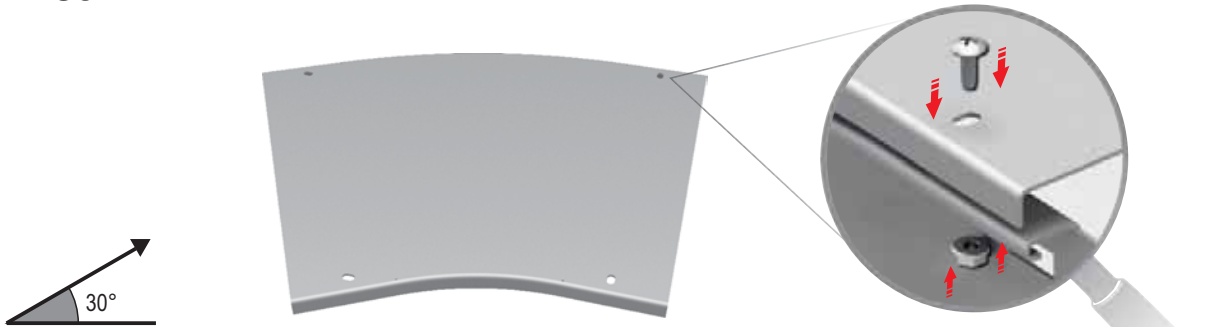
TLS Cable Tray Systems

AA Pre-galvanized and Hot Dip Galvanized After Fabrication
Cable Support Systems and Accessories

BR Binrak Support Systems

INFO Technical Information
Certificates General Product
Specifications Weight Carriage Figuresi





Fitting Cover shown
for illustration purposes only

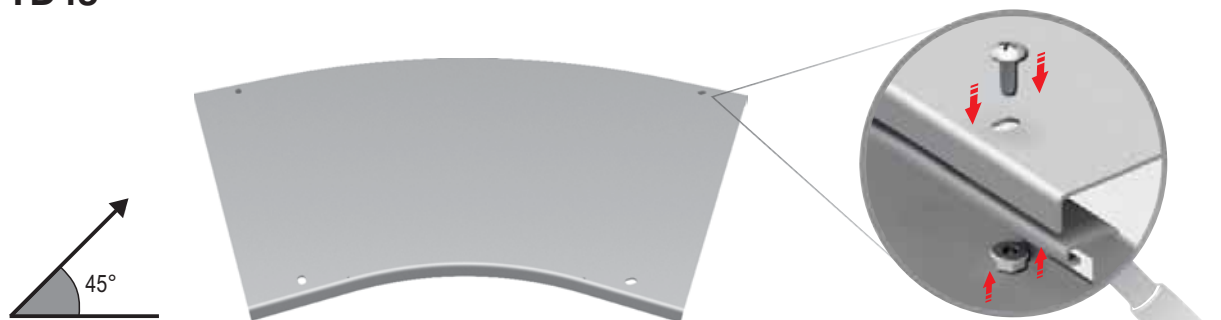
| Width (mm) | Radius (mm) | Description | Code | Weight (kg) | M6x12 Cover Fixing Set |
|------------|-------------|------------------------|---------|-------------|------------------------|
| 150 | 300 | KCA OGK150/YD30/Δ/300 | 3069571 | 1,500 | 4 |
| | 450 | KCA OGK150/YD30/Δ/450 | 3069580 | 1,385 | 4 |
| | 600 | KCA OGK150/YD30/Δ/600 | 3069589 | 1,635 | 4 |
| | 900 | KCA OGK150/YD30/Δ/900 | 3069598 | 2,132 | 4 |
| 200 | 300 | KCA OGK200/YD30/Δ/300 | 3069572 | 1,887 | 4 |
| | 450 | KCA OGK200/YD30/Δ/450 | 3069581 | 2,042 | 4 |
| | 600 | KCA OGK200/YD30/Δ/600 | 3069590 | 2,655 | 4 |
| | 900 | KCA OGK200/YD30/Δ/900 | 3069599 | 3,424 | 4 |
| 300 | 300 | KCA OGK300/YD30/Δ/300 | 3069573 | 2,728 | 4 |
| | 450 | KCA OGK300/YD30/Δ/450 | 3069582 | 3,248 | 4 |
| | 600 | KCA OGK300/YD30/Δ/600 | 3069591 | 3,768 | 4 |
| | 900 | KCA OGK300/YD30/Δ/900 | 3069600 | 4,808 | 4 |
| 450 | 300 | KCA OGK450/YD30/Δ/300 | 3069574 | 4,159 | 4 |
| | 450 | KCA OGK450/YD30/Δ/450 | 3069583 | 4,315 | 4 |
| | 600 | KCA OGK450/YD30/Δ/600 | 3069592 | 4,358 | 4 |
| | 900 | KCA OGK450/YD30/Δ/900 | 3069601 | 7,053 | 4 |
| 600 | 300 | KCA OGK600/YD30/Δ/300 | 3069575 | 5,793 | 4 |
| | 450 | KCA OGK600/YD30/Δ/450 | 3069584 | 6,720 | 4 |
| | 600 | KCA OGK600/YD30/Δ/600 | 3069593 | 7,647 | 4 |
| | 900 | KCA OGK600/YD30/Δ/900 | 3069602 | 9,501 | 4 |
| 750 | 300 | KCA OGK750/YD30/Δ/300 | 3069576 | 7,631 | 4 |
| | 450 | KCA OGK750/YD30/Δ/450 | 3069585 | 8,762 | 4 |
| | 600 | KCA OGK750/YD30/Δ/600 | 3069594 | 9,891 | 4 |
| | 900 | KCA OGK750/YD30/Δ/900 | 3069603 | 12,153 | 4 |
| 900 | 300 | KCA OGK900/YD30/Δ/300 | 3069577 | 9,671 | 4 |
| | 450 | KCA OGK900/YD30/Δ/450 | 3069586 | 11,006 | 4 |
| | 600 | KCA OGK900/YD30/Δ/600 | 3069595 | 12,340 | 4 |
| | 900 | KCA OGK900/YD30/Δ/900 | 3069604 | 15,007 | 4 |
| 1000 | 300 | KCA OGK1000/YD30/Δ/300 | 3069578 | 11,145 | 4 |
| | 450 | KCA OGK1000/YD30/Δ/450 | 3069587 | 12,615 | 4 |
| | 600 | KCA OGK1000/YD30/Δ/600 | 3069596 | 14,084 | 4 |
| | 900 | KCA OGK1000/YD30/Δ/900 | 3069605 | 17,024 | 4 |
| 1100 | 300 | KCA OGK1100/YD30/Δ/300 | 3069579 | 12,709 | 4 |
| | 450 | KCA OGK1100/YD30/Δ/450 | 3069588 | 14,315 | 4 |
| | 600 | KCA OGK1100/YD30/Δ/600 | 3069597 | 15,920 | 4 |
| | 900 | KCA OGK1100/YD30/Δ/900 | 3069606 | 19,130 | 4 |

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- To obtain the appropriate component weight in other finishes, multiply the given weight by the below finish factors.
- Finish factor: HDG (ISO En1461) = (HDG):1 / Stainless Steel = (SS) : 0.94

■ Please indicate order code in your orders.

■ Please contact us for special modules.

■ Material weights may vary by ± 10%



| Width (mm) | Radius (mm) | Description | Code | Weight (kg) | M6x12 Cover Fixing Set |
|------------|-------------|------------------------|---------|-------------|------------------------|
| 150 | 300 | KCA OGK150/YD45/Δ/300 | 3069607 | 1,899 | 4 |
| | 450 | KCA OGK150/YD45/Δ/450 | 3069616 | 1,802 | 4 |
| | 600 | KCA OGK150/YD45/Δ/600 | 3069625 | 2,175 | 4 |
| | 900 | KCA OGK150/YD45/Δ/900 | 3069634 | 2,922 | 4 |
| 200 | 300 | KCA OGK200/YD45/Δ/300 | 3069608 | 2,402 | 4 |
| | 450 | KCA OGK200/YD45/Δ/450 | 3069617 | 2,672 | 4 |
| | 600 | KCA OGK200/YD45/Δ/600 | 3069626 | 3,555 | 4 |
| | 900 | KCA OGK200/YD45/Δ/900 | 3069635 | 4,709 | 4 |
| 300 | 300 | KCA OGK300/YD45/Δ/300 | 3069609 | 3,511 | 4 |
| | 450 | KCA OGK300/YD45/Δ/450 | 3069618 | 4,291 | 4 |
| | 600 | KCA OGK300/YD45/Δ/600 | 3069627 | 5,072 | 4 |
| | 900 | KCA OGK300/YD45/Δ/900 | 3069636 | 6,632 | 4 |
| 450 | 300 | KCA OGK450/YD45/Δ/300 | 3069610 | 5,430 | 4 |
| | 450 | KCA OGK450/YD45/Δ/450 | 3069619 | 5,740 | 4 |
| | 600 | KCA OGK450/YD45/Δ/600 | 3069628 | 5,881 | 4 |
| | 900 | KCA OGK450/YD45/Δ/900 | 3069637 | 9,771 | 4 |
| 600 | 300 | KCA OGK600/YD45/Δ/300 | 3069611 | 7,653 | 4 |
| | 450 | KCA OGK600/YD45/Δ/450 | 3069620 | 9,043 | 4 |
| | 600 | KCA OGK600/YD45/Δ/600 | 3069629 | 10,434 | 4 |
| | 900 | KCA OGK600/YD45/Δ/900 | 3069638 | 13,215 | 4 |
| 750 | 300 | KCA OGK750/YD45/Δ/300 | 3069612 | 10,182 | 4 |
| | 450 | KCA OGK750/YD45/Δ/450 | 3069621 | 11,877 | 4 |
| | 600 | KCA OGK750/YD45/Δ/600 | 3069630 | 13,573 | 4 |
| | 900 | KCA OGK750/YD45/Δ/900 | 3069639 | 16,964 | 4 |
| 900 | 300 | KCA OGK900/YD45/Δ/300 | 3069613 | 13,015 | 4 |
| | 450 | KCA OGK900/YD45/Δ/450 | 3069622 | 15,016 | 4 |
| | 600 | KCA OGK900/YD45/Δ/600 | 3069631 | 17,017 | 4 |
| | 900 | KCA OGK900/YD45/Δ/900 | 3069640 | 21,019 | 4 |
| 1000 | 300 | KCA OGK1000/YD45/Δ/300 | 3069614 | 15,074 | 4 |
| | 450 | KCA OGK1000/YD45/Δ/450 | 3069623 | 17,279 | 4 |
| | 600 | KCA OGK1000/YD45/Δ/600 | 3069632 | 19,483 | 4 |
| | 900 | KCA OGK1000/YD45/Δ/900 | 3069641 | 23,891 | 4 |
| 1100 | 300 | KCA OGK1100/YD45/Δ/300 | 3069615 | 17,269 | 4 |
| | 450 | KCA OGK1100/YD45/Δ/450 | 3069624 | 19,676 | 4 |
| | 600 | KCA OGK1100/YD45/Δ/600 | 3069633 | 22,084 | 4 |
| | 900 | KCA OGK1100/YD45/Δ/900 | 3069642 | 26,899 | 4 |

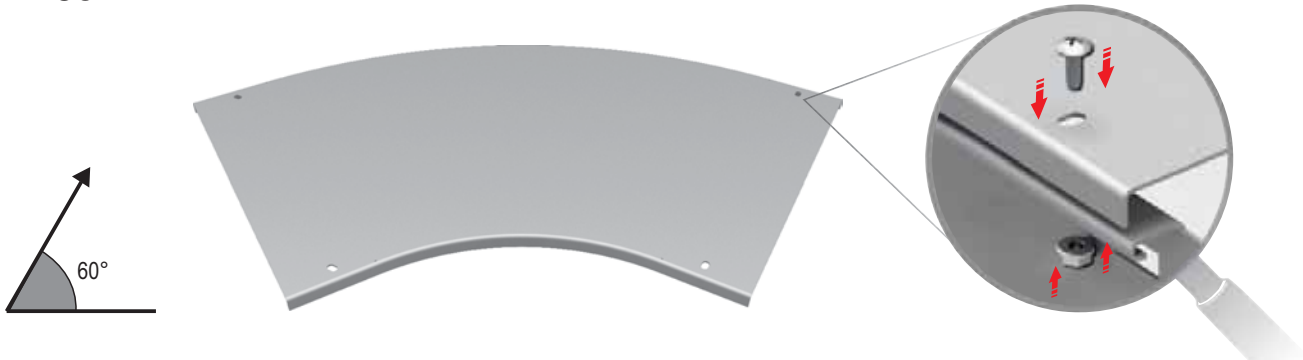


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- Finish factor: HDG (ISO En1461) = (HDG):1 / Stainless Steel = (SS) : 0.94

■ Please indicate order code in your orders.

■ Please contact us for special modules.

■ Material weights may vary by ± 10%



| Width (mm) | Radius (mm) | Description | Code | Weight (kg) | M6x12 Cover Fixing Set |
|------------|-------------|------------------------|---------|-------------|------------------------|
| 150 | 300 | KCA OGK150/YD60/Δ/300 | 3069643 | 2,297 | 4 |
| | 450 | KCA OGK150/YD60/Δ/450 | 3069652 | 2,218 | 4 |
| | 600 | KCA OGK150/YD60/Δ/600 | 3069661 | 2,716 | 4 |
| | 900 | KCA OGK150/YD60/Δ/900 | 3069670 | 3,710 | 4 |
| 200 | 300 | KCA OGK200/YD60/Δ/300 | 3069644 | 2,917 | 4 |
| | 450 | KCA OGK200/YD60/Δ/450 | 3069653 | 3,302 | 4 |
| | 600 | KCA OGK200/YD60/Δ/600 | 3069662 | 4,455 | 4 |
| | 900 | KCA OGK200/YD60/Δ/900 | 3069671 | 5,993 | 4 |
| 300 | 300 | KCA OGK300/YD60/Δ/300 | 3069645 | 4,296 | 4 |
| | 450 | KCA OGK300/YD60/Δ/450 | 3069654 | 5,335 | 4 |
| | 600 | KCA OGK300/YD60/Δ/600 | 3069663 | 6,376 | 4 |
| | 900 | KCA OGK300/YD60/Δ/900 | 3069672 | 8,456 | 4 |
| 450 | 300 | KCA OGK450/YD60/Δ/300 | 3069646 | 6,700 | 4 |
| | 450 | KCA OGK450/YD60/Δ/450 | 3069655 | 7,165 | 4 |
| | 600 | KCA OGK450/YD60/Δ/600 | 3069664 | 7,403 | 4 |
| | 900 | KCA OGK450/YD60/Δ/900 | 3069673 | 12,488 | 4 |
| 600 | 300 | KCA OGK600/YD60/Δ/300 | 3069647 | 9,513 | 4 |
| | 450 | KCA OGK600/YD60/Δ/450 | 3069656 | 11,367 | 4 |
| | 600 | KCA OGK600/YD60/Δ/600 | 3069665 | 13,221 | 4 |
| | 900 | KCA OGK600/YD60/Δ/900 | 3069674 | 16,929 | 4 |
| 750 | 300 | KCA OGK750/YD60/Δ/300 | 3069648 | 12,733 | 4 |
| | 450 | KCA OGK750/YD60/Δ/450 | 3069657 | 14,993 | 4 |
| | 600 | KCA OGK750/YD60/Δ/600 | 3069666 | 17,255 | 4 |
| | 900 | KCA OGK750/YD60/Δ/900 | 3069675 | 21,777 | 4 |
| 900 | 300 | KCA OGK900/YD60/Δ/300 | 3069649 | 16,359 | 4 |
| | 450 | KCA OGK900/YD60/Δ/450 | 3069658 | 19,027 | 4 |
| | 600 | KCA OGK900/YD60/Δ/600 | 3069667 | 21,694 | 4 |
| | 900 | KCA OGK900/YD60/Δ/900 | 3069676 | 27,030 | 4 |
| 1000 | 300 | KCA OGK1000/YD60/Δ/300 | 3069650 | 19,003 | 4 |
| | 450 | KCA OGK1000/YD60/Δ/450 | 3069659 | 21,942 | 4 |
| | 600 | KCA OGK1000/YD60/Δ/600 | 3069668 | 24,881 | 4 |
| | 900 | KCA OGK1000/YD60/Δ/900 | 3069677 | 30,759 | 4 |
| 1100 | 300 | KCA OGK1100/YD60/Δ/300 | 3069651 | 21,827 | 4 |
| | 450 | KCA OGK1100/YD60/Δ/450 | 3069660 | 25,037 | 4 |
| | 600 | KCA OGK1100/YD60/Δ/600 | 3069669 | 28,248 | 4 |
| | 900 | KCA OGK1100/YD60/Δ/900 | 3069678 | 34,669 | 4 |

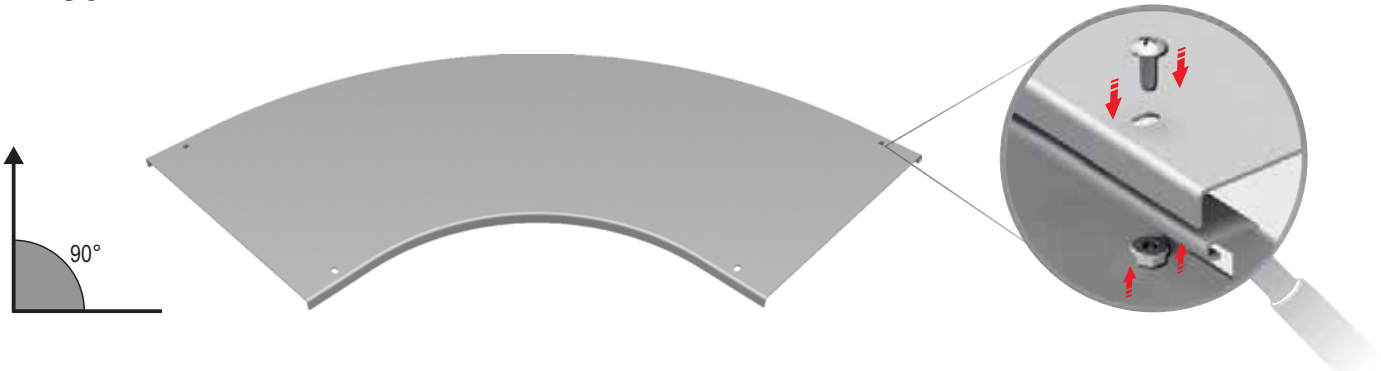


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■ Please indicate order code in your orders.

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| Width (mm) | Radius (mm) | Description | Code | Weight (kg) | M6x12 Cover Fixing Set |
|------------|-------------|------------------------|---------|-------------|------------------------|
| 150 | 300 | KCA OGK150/YD90/Δ/300 | 3069679 | 3,092 | 4 |
| | 450 | KCA OGK150/YD90/Δ/450 | 3069688 | 3,050 | 4 |
| | 600 | KCA OGK150/YD90/Δ/600 | 3069697 | 3,797 | 4 |
| | 900 | KCA OGK150/YD90/Δ/900 | 3069706 | 5,290 | 4 |
| 200 | 300 | KCA OGK200/YD90/Δ/300 | 3069680 | 3,948 | 4 |
| | 450 | KCA OGK200/YD90/Δ/450 | 3069689 | 4,563 | 4 |
| | 600 | KCA OGK200/YD90/Δ/600 | 3069698 | 6,255 | 4 |
| | 900 | KCA OGK200/YD90/Δ/900 | 3069707 | 8,561 | 4 |
| 300 | 300 | KCA OGK300/YD90/Δ/300 | 3069681 | 5,862 | 4 |
| | 450 | KCA OGK300/YD90/Δ/450 | 3069690 | 7,423 | 4 |
| | 600 | KCA OGK300/YD90/Δ/600 | 3069699 | 8,983 | 4 |
| | 900 | KCA OGK300/YD90/Δ/900 | 3069708 | 12,103 | 4 |
| 450 | 300 | KCA OGK450/YD90/Δ/300 | 3069682 | 9,242 | 4 |
| | 450 | KCA OGK450/YD90/Δ/450 | 3069691 | 10,016 | 4 |
| | 600 | KCA OGK450/YD90/Δ/600 | 3069700 | 10,449 | 4 |
| | 900 | KCA OGK450/YD90/Δ/900 | 3069709 | 17,925 | 4 |
| 600 | 300 | KCA OGK600/YD90/Δ/300 | 3069683 | 13,233 | 4 |
| | 450 | KCA OGK600/YD90/Δ/450 | 3069692 | 16,015 | 4 |
| | 600 | KCA OGK600/YD90/Δ/600 | 3069701 | 18,796 | 4 |
| | 900 | KCA OGK600/YD90/Δ/900 | 3069710 | 24,357 | 4 |
| 750 | 300 | KCA OGK750/YD90/Δ/300 | 3069684 | 17,834 | 4 |
| | 450 | KCA OGK750/YD90/Δ/450 | 3069693 | 21,226 | 4 |
| | 600 | KCA OGK750/YD90/Δ/600 | 3069702 | 24,617 | 4 |
| | 900 | KCA OGK750/YD90/Δ/900 | 3069711 | 31,400 | 4 |
| 900 | 300 | KCA OGK900/YD90/Δ/300 | 3069685 | 23,046 | 4 |
| | 450 | KCA OGK900/YD90/Δ/450 | 3069694 | 27,048 | 4 |
| | 600 | KCA OGK900/YD90/Δ/600 | 3069703 | 31,050 | 4 |
| | 900 | KCA OGK900/YD90/Δ/900 | 3069712 | 39,053 | 4 |
| 1000 | 300 | KCA OGK1000/YD90/Δ/300 | 3069686 | 26,860 | 4 |
| | 450 | KCA OGK1000/YD90/Δ/450 | 3069695 | 31,269 | 4 |
| | 600 | KCA OGK1000/YD90/Δ/600 | 3069704 | 35,677 | 4 |
| | 900 | KCA OGK1000/YD90/Δ/900 | 3069713 | 44,494 | 4 |
| 1100 | 300 | KCA OGK1100/YD90/Δ/300 | 3069687 | 30,944 | 4 |
| | 450 | KCA OGK1100/YD90/Δ/450 | 3069696 | 35,760 | 4 |
| | 600 | KCA OGK1100/YD90/Δ/600 | 3069705 | 40,576 | 4 |
| | 900 | KCA OGK1100/YD90/Δ/900 | 3069714 | 50,206 | 4 |



Fitting Cover shown for illustration purposes only

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- Finish factor: HDG (ISO En1461) = (HDG):1 / Stainless Steel = (SS) : 0.94

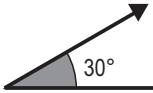
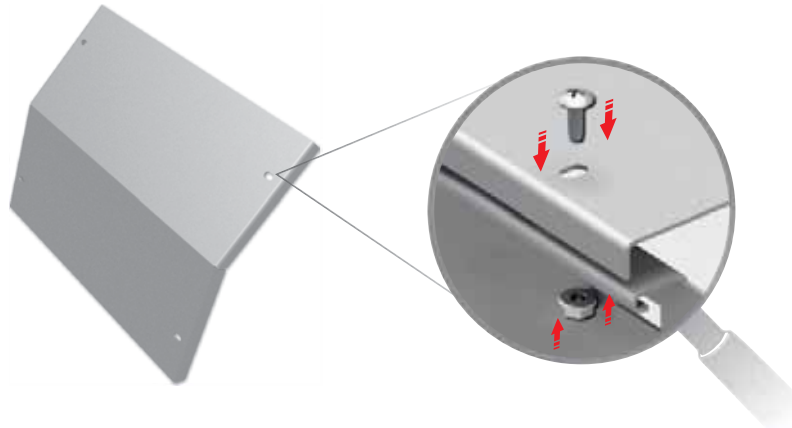
■ Please indicate order code in your orders. ■ Please contact us for special modules. ■ Material weights may vary by ± 10%

►► Fittings Cover DD30 Vertical Outside

DD30



Fitting cover shown for illustration purposes only



| Width (mm) | Radius (mm) | Description | Code | | | | Weight (kg) | | | | M6x12 Cover Fixing Set |
|------------|-------------|------------------------|---------|---------|---------|---------|-------------|--------|--------|--------|------------------------|
| | | | ↓100 | ↓125 | ↓150 | ↓200 | ↓100 | ↓125 | ↓150 | ↓200 | |
| 150 | 300 | KCA OGK150/DD30/Δ/300 | 3069859 | 3069868 | 3069877 | | 1,097 | 1,148 | 1,201 | | 4 |
| | 450 | KCA OGK150/DD30/Δ/450 | 3069894 | 3069903 | 3069912 | | 1,427 | 1,480 | 1,531 | | 4 |
| | 600 | KCA OGK150/DD30/Δ/600 | 3069929 | 3069938 | 3069947 | | 1,746 | 1,797 | 1,850 | | 4 |
| | 900 | KCA OGK150/DD30/Δ/900 | 3069964 | 3069973 | 3069982 | | 2,395 | 2,446 | 2,495 | | 4 |
| 200 | 300 | KCA OGK200/DD30/Δ/300 | 3069860 | 3069869 | 3069878 | 3069886 | 1,338 | 1,396 | 1,460 | 1,592 | 4 |
| | 450 | KCA OGK200/DD30/Δ/450 | 3069895 | 3069904 | 3069913 | 3069921 | 1,734 | 1,797 | 1,861 | 1,993 | 4 |
| | 600 | KCA OGK200/DD30/Δ/600 | 3069930 | 3069939 | 3069948 | 3069956 | 2,121 | 2,185 | 2,248 | 2,380 | 4 |
| | 900 | KCA OGK200/DD30/Δ/900 | 3069965 | 3069974 | 3069983 | 3069991 | 2,908 | 2,972 | 3,032 | 3,168 | 4 |
| 300 | 300 | KCA OGK300/DD30/Δ/300 | 3069861 | 3069870 | 3069879 | 3069887 | 1,811 | 1,892 | 1,978 | 2,156 | 4 |
| | 450 | KCA OGK300/DD30/Δ/450 | 3069896 | 3069905 | 3069914 | 3069922 | 2,349 | 2,434 | 2,520 | 2,699 | 4 |
| | 600 | KCA OGK300/DD30/Δ/600 | 3069931 | 3069940 | 3069949 | 3069957 | 2,872 | 2,958 | 3,044 | 3,223 | 4 |
| | 900 | KCA OGK300/DD30/Δ/900 | 3069966 | 3069975 | 3069984 | 3069992 | 3,938 | 4,024 | 4,103 | 4,289 | 4 |
| 450 | 300 | KCA OGK450/DD30/Δ/300 | 3069862 | 3069871 | 3069880 | 3069888 | 2,519 | 2,635 | 2,754 | 3,003 | 4 |
| | 450 | KCA OGK450/DD30/Δ/450 | 3069897 | 3069906 | 3069915 | 3069923 | 3,270 | 3,390 | 3,510 | 3,759 | 4 |
| | 600 | KCA OGK450/DD30/Δ/600 | 3069932 | 3069941 | 3069950 | 3069958 | 3,997 | 4,117 | 4,237 | 4,486 | 4 |
| | 900 | KCA OGK450/DD30/Δ/900 | 3069967 | 3069976 | 3069985 | 3069993 | 5,481 | 5,601 | 5,711 | 5,970 | 4 |
| 600 | 300 | KCA OGK600/DD30/Δ/300 | 3069863 | 3069872 | 3069881 | 3069889 | 3,229 | 3,377 | 3,531 | 3,850 | 4 |
| | 450 | KCA OGK600/DD30/Δ/450 | 3069898 | 3069907 | 3069916 | 3069924 | 4,192 | 4,345 | 4,499 | 4,817 | 4 |
| | 600 | KCA OGK600/DD30/Δ/600 | 3069933 | 3069942 | 3069951 | 3069959 | 5,124 | 5,278 | 5,431 | 5,750 | 4 |
| | 900 | KCA OGK600/DD30/Δ/900 | 3069968 | 3069977 | 3069986 | 3069994 | 7,025 | 7,178 | 7,319 | 7,651 | 4 |
| 750 | 300 | KCA OGK750/DD30/Δ/300 | 3069864 | 3069873 | 3069882 | 3069890 | 3,938 | 4,121 | 4,308 | 4,696 | 4 |
| | 450 | KCA OGK750/DD30/Δ/450 | 3069899 | 3069908 | 3069917 | 3069925 | 5,114 | 5,301 | 5,488 | 5,876 | 4 |
| | 600 | KCA OGK750/DD30/Δ/600 | 3069934 | 3069943 | 3069952 | 3069960 | 6,250 | 6,437 | 6,624 | 7,014 | 4 |
| | 900 | KCA OGK750/DD30/Δ/900 | 3069969 | 3069978 | 3069987 | 3069995 | 8,568 | 8,755 | 8,928 | 9,330 | 4 |
| 900 | 300 | KCA OGK900/DD30/Δ/300 | 3069865 | 3069874 | 3069883 | 3069891 | 4,648 | 4,863 | 5,084 | 5,543 | 4 |
| | 450 | KCA OGK900/DD30/Δ/450 | 3069900 | 3069909 | 3069918 | 3069926 | 6,035 | 6,256 | 6,477 | 6,936 | 4 |
| | 600 | KCA OGK900/DD30/Δ/600 | 3069935 | 3069944 | 3069953 | 3069961 | 7,377 | 7,598 | 7,819 | 8,278 | 4 |
| | 900 | KCA OGK900/DD30/Δ/900 | 3069970 | 3069979 | 3069988 | 3069996 | 10,111 | 10,332 | 10,536 | 11,011 | 4 |
| 1000 | 300 | KCA OGK1000/DD30/Δ/300 | 3069866 | 3069875 | 3069884 | 3069892 | 5,119 | 5,358 | 5,601 | 6,107 | 4 |
| | 450 | KCA OGK1000/DD30/Δ/450 | 3069901 | 3069910 | 3069919 | 3069927 | 6,650 | 6,893 | 7,136 | 7,642 | 4 |
| | 600 | KCA OGK1000/DD30/Δ/600 | 3069936 | 3069945 | 3069954 | 3069962 | 8,128 | 8,371 | 8,618 | 9,119 | 4 |
| | 900 | KCA OGK1000/DD30/Δ/900 | 3069971 | 3069980 | 3069989 | 3069997 | 11,140 | 11,384 | 11,608 | 12,132 | 4 |
| 1100 | 300 | KCA OGK1100/DD30/Δ/300 | 3069867 | 3069876 | 3069885 | 3069893 | 5,592 | 5,854 | 6,119 | 6,672 | 4 |
| | 450 | KCA OGK1100/DD30/Δ/450 | 3069902 | 3069911 | 3069920 | 3069928 | 7,264 | 7,530 | 7,796 | 8,347 | 4 |
| | 600 | KCA OGK1100/DD30/Δ/600 | 3069937 | 3069946 | 3069955 | 3069963 | 8,878 | 9,144 | 9,411 | 9,962 | 4 |
| | 900 | KCA OGK1100/DD30/Δ/900 | 3069972 | 3069981 | 3069990 | 3069998 | 12,169 | 12,434 | 12,680 | 13,252 | 4 |

- Δ: All products codes and weights given are in kilograms (kg) and are hotdip galvanized (HDG) finish.
- To obtain the appropriate component weight in other finishes, multiply the given weight by the below finish factors.
- Finish factor: HDG (ISO En1461) = (HDG):1 / Stainless Steel = (SS) : 0.94

■ Please indicate order code in your orders.

■ Please contact us for special modules.

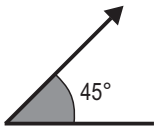
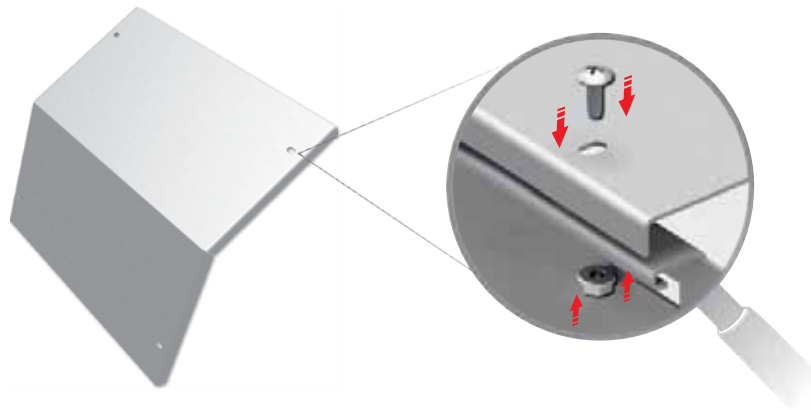
■ Material weights may vary by ± 10%

►► Fittings Cover DD45 Vertical Outside

DD45



Fitting cover shown for illustration purposes only



| Width (mm) | Radius (mm) | Description | Code | | | | Weight (kg) | | | | M6x12 Cover Fixing Set |
|------------|-------------|------------------------|---------|---------|---------|---------|-------------|--------|--------|--------|------------------------|
| | | | ↓100 | ↓125 | ↓150 | ↓200 | ↓100 | ↓125 | ↓150 | ↓200 | |
| 150 | 300 | KCA OGK150/DD45/Δ/300 | 3069999 | 3070008 | 3070017 | | 1,560 | 1,645 | 1,726 | | 4 |
| | 450 | KCA OGK150/DD45/Δ/450 | 3070034 | 3070043 | 3070052 | | 2,068 | 2,153 | 2,234 | | 4 |
| | 600 | KCA OGK150/DD45/Δ/600 | 3070069 | 3070078 | 3070087 | | 2,564 | 2,649 | 2,734 | | 4 |
| | 900 | KCA OGK150/DD45/Δ/900 | 3070104 | 3070113 | 3070122 | | 3,568 | 3,653 | 3,733 | | 4 |
| 200 | 300 | KCA OGK200/DD45/Δ/300 | 3070000 | 3070009 | 3070018 | 3070026 | 1,896 | 1,999 | 2,097 | 2,302 | 4 |
| | 450 | KCA OGK200/DD45/Δ/450 | 3070035 | 3070044 | 3070053 | 3070061 | 2,514 | 2,616 | 2,714 | 2,919 | 4 |
| | 600 | KCA OGK200/DD45/Δ/600 | 3070070 | 3070079 | 3070088 | 3070096 | 3,115 | 3,218 | 3,321 | 3,521 | 4 |
| | 900 | KCA OGK200/DD45/Δ/900 | 3070105 | 3070114 | 3070123 | 3070131 | 4,334 | 4,436 | 4,534 | 4,740 | 4 |
| 300 | 300 | KCA OGK300/DD45/Δ/300 | 3070001 | 3070010 | 3070019 | 3070027 | 2,569 | 2,707 | 2,840 | 3,119 | 4 |
| | 450 | KCA OGK300/DD45/Δ/450 | 3070036 | 3070045 | 3070054 | 3070062 | 3,402 | 3,542 | 3,674 | 3,952 | 4 |
| | 600 | KCA OGK300/DD45/Δ/600 | 3070071 | 3070080 | 3070089 | 3070097 | 4,217 | 4,356 | 4,496 | 4,767 | 4 |
| | 900 | KCA OGK300/DD45/Δ/900 | 3070106 | 3070115 | 3070124 | 3070132 | 5,866 | 6,005 | 6,138 | 6,415 | 4 |
| 450 | 300 | KCA OGK450/DD45/Δ/300 | 3070002 | 3070011 | 3070020 | 3070028 | 3,577 | 3,770 | 3,955 | 4,342 | 4 |
| | 450 | KCA OGK450/DD45/Δ/450 | 3070037 | 3070046 | 3070055 | 3070063 | 4,738 | 4,931 | 5,115 | 5,502 | 4 |
| | 600 | KCA OGK450/DD45/Δ/600 | 3070072 | 3070081 | 3070090 | 3070098 | 5,871 | 6,064 | 6,258 | 6,635 | 4 |
| | 900 | KCA OGK450/DD45/Δ/900 | 3070107 | 3070116 | 3070125 | 3070133 | 8,164 | 8,358 | 8,543 | 8,929 | 4 |
| 600 | 300 | KCA OGK600/DD45/Δ/300 | 3070003 | 3070012 | 3070021 | 3070029 | 4,585 | 4,832 | 5,069 | 5,565 | 4 |
| | 450 | KCA OGK600/DD45/Δ/450 | 3070038 | 3070047 | 3070056 | 3070064 | 6,072 | 6,320 | 6,556 | 7,052 | 4 |
| | 600 | KCA OGK600/DD45/Δ/600 | 3070073 | 3070082 | 3070091 | 3070099 | 7,524 | 7,772 | 8,019 | 8,503 | 4 |
| | 900 | KCA OGK600/DD45/Δ/900 | 3070108 | 3070117 | 3070126 | 3070134 | 10,462 | 10,711 | 10,946 | 11,442 | 4 |
| 750 | 300 | KCA OGK750/DD45/Δ/300 | 3070004 | 3070013 | 3070022 | 3070030 | 5,594 | 5,895 | 6,183 | 6,788 | 4 |
| | 450 | KCA OGK750/DD45/Δ/450 | 3070039 | 3070048 | 3070057 | 3070065 | 7,406 | 7,709 | 7,997 | 8,601 | 4 |
| | 600 | KCA OGK750/DD45/Δ/600 | 3070074 | 3070083 | 3070092 | 3070100 | 9,177 | 9,479 | 9,781 | 10,372 | 4 |
| | 900 | KCA OGK750/DD45/Δ/900 | 3070109 | 3070118 | 3070127 | 3070135 | 12,761 | 13,064 | 13,351 | 13,956 | 4 |
| 900 | 300 | KCA OGK900/DD45/Δ/300 | 3070005 | 3070014 | 3070023 | 3070031 | 6,601 | 6,958 | 7,297 | 8,011 | 4 |
| | 450 | KCA OGK900/DD45/Δ/450 | 3070040 | 3070049 | 3070058 | 3070066 | 8,741 | 9,098 | 9,438 | 10,151 | 4 |
| | 600 | KCA OGK900/DD45/Δ/600 | 3070075 | 3070084 | 3070093 | 3070101 | 10,831 | 11,187 | 11,543 | 12,240 | 4 |
| | 900 | KCA OGK900/DD45/Δ/900 | 3070110 | 3070119 | 3070128 | 3070136 | 15,059 | 15,415 | 15,755 | 16,469 | 4 |
| 1000 | 300 | KCA OGK1000/DD45/Δ/300 | 3070006 | 3070015 | 3070024 | 3070032 | 7,273 | 7,666 | 8,040 | 8,826 | 4 |
| | 450 | KCA OGK1000/DD45/Δ/450 | 3070041 | 3070050 | 3070059 | 3070067 | 9,631 | 10,024 | 10,398 | 11,184 | 4 |
| | 600 | KCA OGK1000/DD45/Δ/600 | 3070076 | 3070085 | 3070094 | 3070102 | 11,933 | 12,326 | 12,718 | 13,485 | 4 |
| | 900 | KCA OGK1000/DD45/Δ/900 | 3070111 | 3070120 | 3070129 | 3070137 | 16,591 | 16,984 | 17,358 | 18,145 | 4 |
| 1100 | 300 | KCA OGK1100/DD45/Δ/300 | 3070007 | 3070016 | 3070025 | 3070033 | 7,945 | 8,374 | 8,784 | 9,642 | 4 |
| | 450 | KCA OGK1100/DD45/Δ/450 | 3070042 | 3070051 | 3070060 | 3070068 | 10,520 | 10,949 | 11,359 | 12,217 | 4 |
| | 600 | KCA OGK1100/DD45/Δ/600 | 3070077 | 3070086 | 3070095 | 3070103 | 13,034 | 13,464 | 13,893 | 14,731 | 4 |
| | 900 | KCA OGK1100/DD45/Δ/900 | 3070112 | 3070121 | 3070130 | 3070138 | 18,124 | 18,553 | 18,962 | 19,820 | 4 |

- Δ: All products codes and weights given are in kilograms (kg) and are hotdip galvanized (HDG) finish.
- To obtain the appropriate component weight in other finishes, multiply the given weight by the below finish factors.
- Finish factor: HDG (ISO En1461) = (HDG):1 / Stainless Steel = (SS) : 0.94

■ Please indicate order code in your orders.

■ Please contact us for special modules.

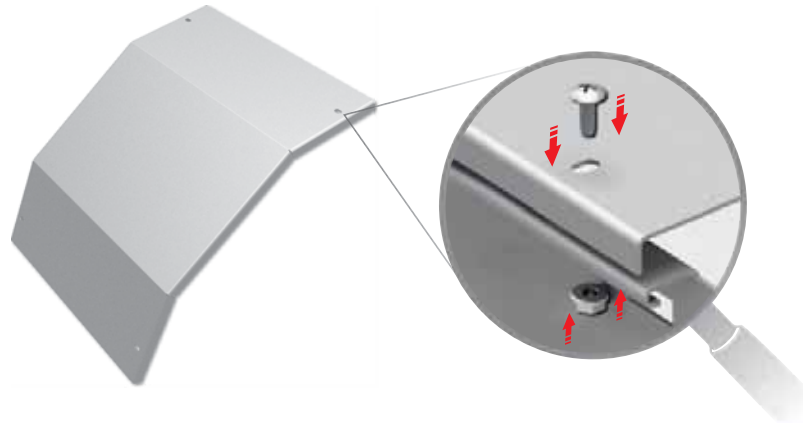
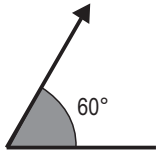
■ Material weights may vary by ± 10%

►► Fittings Cover DD60 Vertical Outside

DD60



Fitting cover shown for illustration purposes only



| Width (mm) | Radius (mm) | Description | Code | | | | Weight (kg) | | | | M6x12 Cover Fixing Set |
|------------|-------------|------------------------|---------|---------|---------|---------|-------------|--------|--------|--------|------------------------|
| | | | ↓100 | ↓125 | ↓150 | ↓200 | ↓100 | ↓125 | ↓150 | ↓200 | |
| 150 | 300 | KCA OGK150/DD60/Δ/300 | 3070139 | 3070148 | 3070157 | | 1,973 | 2,075 | 2,175 | | 4 |
| | 450 | KCA OGK150/DD60/Δ/450 | 3070174 | 3070183 | 3070192 | | 2,618 | 2,719 | 2,820 | | 4 |
| | 600 | KCA OGK150/DD60/Δ/600 | 3070209 | 3070218 | 3070227 | | 3,264 | 3,364 | 3,465 | | 4 |
| | 900 | KCA OGK150/DD60/Δ/900 | 3070244 | 3070253 | 3070262 | | 4,555 | 4,666 | 4,792 | | 4 |
| 200 | 300 | KCA OGK200/DD60/Δ/300 | 3070140 | 3070149 | 3070158 | 3070166 | 2,398 | 2,520 | 2,643 | 2,912 | 4 |
| | 450 | KCA OGK200/DD60/Δ/450 | 3070175 | 3070184 | 3070193 | 3070201 | 3,181 | 3,303 | 3,427 | 3,695 | 4 |
| | 600 | KCA OGK200/DD60/Δ/600 | 3070210 | 3070219 | 3070228 | 3070236 | 3,964 | 4,087 | 4,210 | 4,478 | 4 |
| | 900 | KCA OGK200/DD60/Δ/900 | 3070245 | 3070254 | 3070263 | 3070271 | 5,533 | 5,668 | 5,820 | 6,094 | 4 |
| 300 | 300 | KCA OGK300/DD60/Δ/300 | 3070141 | 3070150 | 3070159 | 3070167 | 3,248 | 3,413 | 3,579 | 3,944 | 4 |
| | 450 | KCA OGK300/DD60/Δ/450 | 3070176 | 3070185 | 3070194 | 3070202 | 4,308 | 4,473 | 4,639 | 5,003 | 4 |
| | 600 | KCA OGK300/DD60/Δ/600 | 3070211 | 3070220 | 3070229 | 3070237 | 5,367 | 5,533 | 5,698 | 6,062 | 4 |
| | 900 | KCA OGK300/DD60/Δ/900 | 3070246 | 3070255 | 3070264 | 3070272 | 7,489 | 7,671 | 7,877 | 8,248 | 4 |
| 450 | 300 | KCA OGK450/DD60/Δ/300 | 3070142 | 3070151 | 3070160 | 3070168 | 4,523 | 4,753 | 4,983 | 5,490 | 4 |
| | 450 | KCA OGK450/DD60/Δ/450 | 3070177 | 3070186 | 3070195 | 3070203 | 5,997 | 6,227 | 6,457 | 6,964 | 4 |
| | 600 | KCA OGK450/DD60/Δ/600 | 3070212 | 3070221 | 3070230 | 3070238 | 7,471 | 7,701 | 7,931 | 8,438 | 4 |
| | 900 | KCA OGK450/DD60/Δ/900 | 3070247 | 3070256 | 3070265 | 3070273 | 10,424 | 10,677 | 10,963 | 11,479 | 4 |
| 600 | 300 | KCA OGK600/DD60/Δ/300 | 3070143 | 3070152 | 3070161 | 3070169 | 5,797 | 6,093 | 6,388 | 7,037 | 4 |
| | 450 | KCA OGK600/DD60/Δ/450 | 3070178 | 3070187 | 3070196 | 3070204 | 7,686 | 7,981 | 8,276 | 8,925 | 4 |
| | 600 | KCA OGK600/DD60/Δ/600 | 3070213 | 3070222 | 3070231 | 3070239 | 9,574 | 9,869 | 10,164 | 10,814 | 4 |
| | 900 | KCA OGK600/DD60/Δ/900 | 3070248 | 3070257 | 3070266 | 3070274 | 13,357 | 13,682 | 14,048 | 14,708 | 4 |
| 750 | 300 | KCA OGK750/DD60/Δ/300 | 3070144 | 3070153 | 3070162 | 3070170 | 7,072 | 7,432 | 7,791 | 8,583 | 4 |
| | 450 | KCA OGK750/DD60/Δ/450 | 3070179 | 3070188 | 3070197 | 3070205 | 9,375 | 9,735 | 10,095 | 10,887 | 4 |
| | 600 | KCA OGK750/DD60/Δ/600 | 3070214 | 3070223 | 3070232 | 3070240 | 11,678 | 12,037 | 12,398 | 13,189 | 4 |
| | 900 | KCA OGK750/DD60/Δ/900 | 3070249 | 3070258 | 3070267 | 3070275 | 16,291 | 16,687 | 17,133 | 17,939 | 4 |
| 900 | 300 | KCA OGK900/DD60/Δ/300 | 3070145 | 3070154 | 3070163 | 3070171 | 8,347 | 8,771 | 9,196 | 10,130 | 4 |
| | 450 | KCA OGK900/DD60/Δ/450 | 3070180 | 3070189 | 3070198 | 3070206 | 11,064 | 11,488 | 11,913 | 12,848 | 4 |
| | 600 | KCA OGK900/DD60/Δ/600 | 3070215 | 3070224 | 3070233 | 3070241 | 13,782 | 14,207 | 14,631 | 15,565 | 4 |
| | 900 | KCA OGK900/DD60/Δ/900 | 3070250 | 3070259 | 3070268 | 3070276 | 19,225 | 19,692 | 20,218 | 21,170 | 4 |
| 1000 | 300 | KCA OGK1000/DD60/Δ/300 | 3070146 | 3070155 | 3070164 | 3070172 | 9,197 | 9,665 | 10,132 | 11,162 | 4 |
| | 450 | KCA OGK1000/DD60/Δ/450 | 3070181 | 3070190 | 3070199 | 3070207 | 12,190 | 12,658 | 13,126 | 14,155 | 4 |
| | 600 | KCA OGK1000/DD60/Δ/600 | 3070216 | 3070225 | 3070234 | 3070242 | 15,184 | 15,652 | 16,119 | 17,149 | 4 |
| | 900 | KCA OGK1000/DD60/Δ/900 | 3070251 | 3070260 | 3070269 | 3070277 | 21,181 | 21,695 | 22,275 | 23,323 | 4 |
| 1100 | 300 | KCA OGK1100/DD60/Δ/300 | 3070147 | 3070156 | 3070165 | 3070173 | 10,046 | 10,558 | 11,068 | 12,192 | 4 |
| | 450 | KCA OGK1100/DD60/Δ/450 | 3070182 | 3070191 | 3070200 | 3070208 | 13,317 | 13,827 | 14,339 | 15,463 | 4 |
| | 600 | KCA OGK1100/DD60/Δ/600 | 3070217 | 3070226 | 3070235 | 3070243 | 16,587 | 17,097 | 17,609 | 18,733 | 4 |
| | 900 | KCA OGK1100/DD60/Δ/900 | 3070252 | 3070261 | 3070270 | 3070278 | 23,137 | 23,698 | 24,332 | 25,477 | 4 |

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- Finish factor: HDG (ISO En1461) = (HDG):1 / Stainless Steel = (SS) : 0.94

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■ Please contact us for special modules.

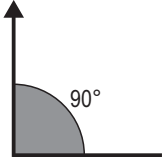
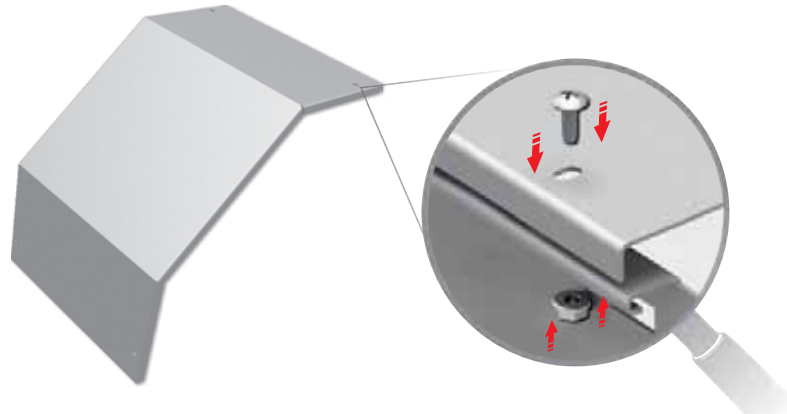
■ Material weights may vary by ± 10%

►► Fittings Cover DD90 Vertical Outside

DD90



Fitting cover shown for illustration purposes only



| Width (mm) | Radius (mm) | Description | Code | | | | Weight (kg) | | | | M6x12 Cover Fixing Set |
|------------|-------------|------------------------|---------|---------|---------|---------|-------------|--------|--------|--------|------------------------|
| | | | ↓100 | ↓125 | ↓150 | ↓200 | ↓100 | ↓125 | ↓150 | ↓200 | |
| 150 | 300 | KCA OGK150/DD90/Δ/300 | 3070279 | 3070288 | 3070297 | | 2,922 | 3,083 | 3,224 | | 4 |
| | 450 | KCA OGK150/DD90/Δ/450 | 3070314 | 3070323 | 3070332 | | 3,890 | 4,071 | 4,232 | | 4 |
| | 600 | KCA OGK150/DD90/Δ/600 | 3070349 | 3070358 | 3070367 | | 4,917 | 5,079 | 5,239 | | 4 |
| | 900 | KCA OGK150/DD90/Δ/900 | 3070384 | 3070393 | 3070402 | | 6,893 | 7,074 | 7,235 | | 4 |
| 200 | 300 | KCA OGK200/DD90/Δ/300 | 3070280 | 3070289 | 3070298 | 3070306 | 3,550 | 3,746 | 3,917 | 4,333 | 4 |
| | 450 | KCA OGK200/DD90/Δ/450 | 3070315 | 3070324 | 3070333 | 3070341 | 4,725 | 4,946 | 5,141 | 5,557 | 4 |
| | 600 | KCA OGK200/DD90/Δ/600 | 3070350 | 3070359 | 3070368 | 3070376 | 5,973 | 6,169 | 6,365 | 6,756 | 4 |
| | 900 | KCA OGK200/DD90/Δ/900 | 3070385 | 3070394 | 3070403 | 3070411 | 8,371 | 8,592 | 8,788 | 9,204 | 4 |
| 300 | 300 | KCA OGK300/DD90/Δ/300 | 3070281 | 3070290 | 3070299 | 3070307 | 4,807 | 5,072 | 5,304 | 5,866 | 4 |
| | 450 | KCA OGK300/DD90/Δ/450 | 3070316 | 3070325 | 3070334 | 3070342 | 6,397 | 6,695 | 6,960 | 7,522 | 4 |
| | 600 | KCA OGK300/DD90/Δ/600 | 3070351 | 3070360 | 3070369 | 3070377 | 8,085 | 8,350 | 8,615 | 9,144 | 4 |
| | 900 | KCA OGK300/DD90/Δ/900 | 3070386 | 3070395 | 3070404 | 3070412 | 11,330 | 11,628 | 11,892 | 12,455 | 4 |
| 450 | 300 | KCA OGK450/DD90/Δ/300 | 3070282 | 3070291 | 3070300 | 3070308 | 6,692 | 7,061 | 7,383 | 8,166 | 4 |
| | 450 | KCA OGK450/DD90/Δ/450 | 3070317 | 3070326 | 3070335 | 3070343 | 8,903 | 9,318 | 9,687 | 10,470 | 4 |
| | 600 | KCA OGK450/DD90/Δ/600 | 3070352 | 3070361 | 3070370 | 3070378 | 11,253 | 11,622 | 11,990 | 12,727 | 4 |
| | 900 | KCA OGK450/DD90/Δ/900 | 3070387 | 3070396 | 3070405 | 3070413 | 15,766 | 16,181 | 16,550 | 17,333 | 4 |
| 600 | 300 | KCA OGK600/DD90/Δ/300 | 3070283 | 3070292 | 3070301 | 3070309 | 8,578 | 9,051 | 9,463 | 10,467 | 4 |
| | 450 | KCA OGK600/DD90/Δ/450 | 3070318 | 3070327 | 3070336 | 3070344 | 11,411 | 11,942 | 12,415 | 13,418 | 4 |
| | 600 | KCA OGK600/DD90/Δ/600 | 3070353 | 3070362 | 3070371 | 3070379 | 14,421 | 14,893 | 15,365 | 16,309 | 4 |
| | 900 | KCA OGK600/DD90/Δ/900 | 3070388 | 3070397 | 3070406 | 3070414 | 20,204 | 20,735 | 21,207 | 22,210 | 4 |
| 750 | 300 | KCA OGK750/DD90/Δ/300 | 3070284 | 3070293 | 3070302 | 3070310 | 10,463 | 11,040 | 11,543 | 12,767 | 4 |
| | 450 | KCA OGK750/DD90/Δ/450 | 3070319 | 3070328 | 3070337 | 3070345 | 13,918 | 14,566 | 15,142 | 16,365 | 4 |
| | 600 | KCA OGK750/DD90/Δ/600 | 3070354 | 3070363 | 3070372 | 3070380 | 17,588 | 18,164 | 18,740 | 19,891 | 4 |
| | 900 | KCA OGK750/DD90/Δ/900 | 3070389 | 3070398 | 3070407 | 3070415 | 24,641 | 25,289 | 25,864 | 27,088 | 4 |
| 900 | 300 | KCA OGK900/DD90/Δ/300 | 3070285 | 3070294 | 3070303 | 3070311 | 12,350 | 13,028 | 13,624 | 15,067 | 4 |
| | 450 | KCA OGK900/DD90/Δ/450 | 3070320 | 3070329 | 3070338 | 3070346 | 16,425 | 17,190 | 17,870 | 19,313 | 4 |
| | 600 | KCA OGK900/DD90/Δ/600 | 3070355 | 3070364 | 3070373 | 3070381 | 20,756 | 21,436 | 22,114 | 23,474 | 4 |
| | 900 | KCA OGK900/DD90/Δ/900 | 3070390 | 3070399 | 3070408 | 3070416 | 29,079 | 29,843 | 30,522 | 31,966 | 4 |
| 1000 | 300 | KCA OGK1000/DD90/Δ/300 | 3070286 | 3070295 | 3070304 | 3070312 | 13,606 | 14,355 | 15,010 | 16,600 | 4 |
| | 450 | KCA OGK1000/DD90/Δ/450 | 3070321 | 3070330 | 3070339 | 3070347 | 18,097 | 18,939 | 19,687 | 21,277 | 4 |
| | 600 | KCA OGK1000/DD90/Δ/600 | 3070356 | 3070365 | 3070374 | 3070382 | 22,868 | 23,617 | 24,365 | 25,862 | 4 |
| | 900 | KCA OGK1000/DD90/Δ/900 | 3070391 | 3070400 | 3070409 | 3070417 | 32,036 | 32,878 | 33,627 | 35,218 | 4 |
| 1100 | 300 | KCA OGK1100/DD90/Δ/300 | 3070287 | 3070296 | 3070305 | 3070313 | 14,863 | 15,681 | 16,397 | 18,134 | 4 |
| | 450 | KCA OGK1100/DD90/Δ/450 | 3070322 | 3070331 | 3070340 | 3070348 | 19,768 | 20,688 | 21,505 | 23,243 | 4 |
| | 600 | KCA OGK1100/DD90/Δ/600 | 3070357 | 3070366 | 3070375 | 3070383 | 24,980 | 25,797 | 26,615 | 28,250 | 4 |
| | 900 | KCA OGK1100/DD90/Δ/900 | 3070392 | 3070401 | 3070410 | 3070418 | 34,994 | 35,914 | 36,731 | 38,469 | 4 |

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- Finish factor: HDG (ISO En1461) = (HDG):1 / Stainless Steel = (SS) : 0.94

■ Please indicate order code in your orders.

■ Please contact us for special modules.

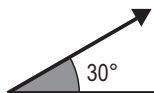
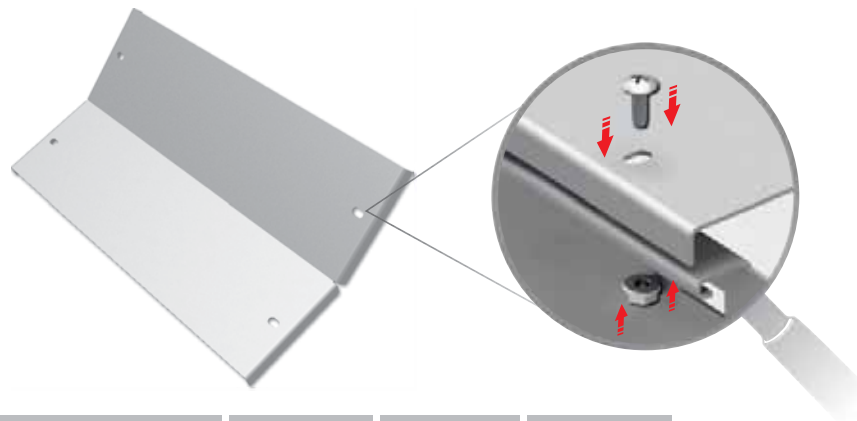
■ Material weights may vary by ± 10%

►► Fittings Cover ID30 Vertical Inside

ID30



Fitting cover shown for illustration purposes only



| Width (mm) | Radius (mm) | Description | Code | Weight (kg) | M6x12 Cover Fixing Set |
|------------|-------------|------------------------|---------|-------------|------------------------|
| 150 | 300 | KCA OGK150/ID30/Δ/300 | 3069715 | 0,877 | 4 |
| | 450 | KCA OGK150/ID30/Δ/450 | 3069724 | 1,216 | 4 |
| | 600 | KCA OGK150/ID30/Δ/600 | 3069733 | 1,530 | 4 |
| | 900 | KCA OGK150/ID30/Δ/900 | 3069742 | 2,179 | 4 |
| 200 | 300 | KCA OGK200/ID30/Δ/300 | 3069716 | 1,066 | 4 |
| | 450 | KCA OGK200/ID30/Δ/450 | 3069725 | 1,477 | 4 |
| | 600 | KCA OGK200/ID30/Δ/600 | 3069734 | 1,859 | 4 |
| | 900 | KCA OGK200/ID30/Δ/900 | 3069743 | 2,647 | 4 |
| 300 | 300 | KCA OGK300/ID30/Δ/300 | 3069717 | 1,443 | 4 |
| | 450 | KCA OGK300/ID30/Δ/450 | 3069726 | 2,000 | 4 |
| | 600 | KCA OGK300/ID30/Δ/600 | 3069735 | 2,516 | 4 |
| | 900 | KCA OGK300/ID30/Δ/900 | 3069744 | 3,583 | 4 |
| 450 | 300 | KCA OGK450/ID30/Δ/300 | 3069718 | 2,010 | 4 |
| | 450 | KCA OGK450/ID30/Δ/450 | 3069727 | 2,784 | 4 |
| | 600 | KCA OGK450/ID30/Δ/600 | 3069736 | 3,502 | 4 |
| | 900 | KCA OGK450/ID30/Δ/900 | 3069745 | 4,986 | 4 |
| 600 | 300 | KCA OGK600/ID30/Δ/300 | 3069719 | 2,577 | 4 |
| | 450 | KCA OGK600/ID30/Δ/450 | 3069728 | 3,568 | 4 |
| | 600 | KCA OGK600/ID30/Δ/600 | 3069737 | 4,489 | 4 |
| | 900 | KCA OGK600/ID30/Δ/900 | 3069746 | 6,389 | 4 |
| 750 | 300 | KCA OGK750/ID30/Δ/300 | 3069720 | 3,144 | 4 |
| | 450 | KCA OGK750/ID30/Δ/450 | 3069729 | 4,353 | 4 |
| | 600 | KCA OGK750/ID30/Δ/600 | 3069738 | 5,476 | 4 |
| | 900 | KCA OGK750/ID30/Δ/900 | 3069747 | 7,792 | 4 |
| 900 | 300 | KCA OGK900/ID30/Δ/300 | 3069721 | 3,710 | 4 |
| | 450 | KCA OGK900/ID30/Δ/450 | 3069730 | 5,137 | 4 |
| | 600 | KCA OGK900/ID30/Δ/600 | 3069739 | 6,461 | 4 |
| | 900 | KCA OGK900/ID30/Δ/900 | 3069748 | 9,196 | 4 |
| 1000 | 300 | KCA OGK1000/ID30/Δ/300 | 3069722 | 4,089 | 4 |
| | 450 | KCA OGK1000/ID30/Δ/450 | 3069731 | 5,661 | 4 |
| | 600 | KCA OGK1000/ID30/Δ/600 | 3069740 | 7,119 | 4 |
| | 900 | KCA OGK1000/ID30/Δ/900 | 3069749 | 10,132 | 4 |
| 1100 | 300 | KCA OGK1100/ID30/Δ/300 | 3069723 | 4,466 | 4 |
| | 450 | KCA OGK1100/ID30/Δ/450 | 3069732 | 6,183 | 4 |
| | 600 | KCA OGK1100/ID30/Δ/600 | 3069741 | 7,777 | 4 |
| | 900 | KCA OGK1100/ID30/Δ/900 | 3069750 | 11,067 | 4 |

- Δ: All products codes and weights given are in kilograms (kg) and are hotdip galvanized (HDG) finish.
- To obtain the appropriate component weight in other finishes, multiply the given weight by the below finish factors.
- Finish factor: HDG (ISO En1461) = (HDG):1 / Stainless Steel = (SS) : 0.94

■ Please indicate order code in your orders.

■ Please contact us for special modules.

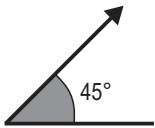
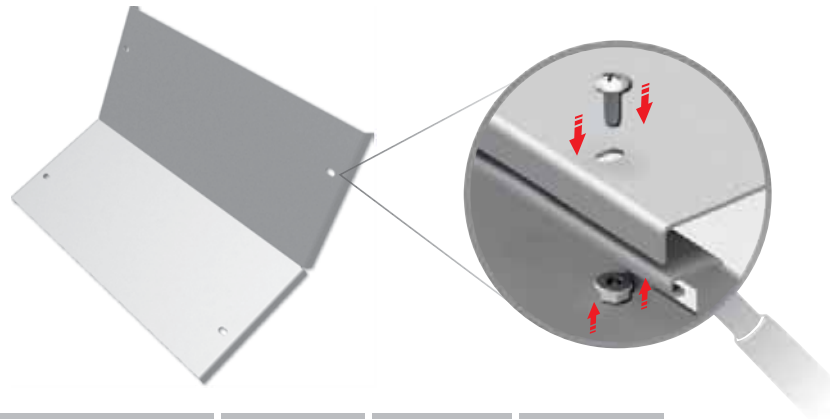
■ Material weights may vary by ± 10%

►► Fittings Cover ID45 Vertical Inside

ID45



Fitting cover shown for illustration purposes only



| Width (mm) | Radius (mm) | Description | Code | Weight (kg) | M6x12 Cover Fixing Set |
|------------|-------------|------------------------|---------|-------------|------------------------|
| 150 | 300 | KCA OGK150/ID45/Δ/300 | 3069751 | 1,234 | 4 |
| | 450 | KCA OGK150/ID45/Δ/450 | 3069760 | 1,742 | 4 |
| | 600 | KCA OGK150/ID45/Δ/600 | 3069769 | 2,234 | 4 |
| | 900 | KCA OGK150/ID45/Δ/900 | 3069778 | 3,242 | 4 |
| 200 | 300 | KCA OGK200/ID45/Δ/300 | 3069752 | 1,499 | 4 |
| | 450 | KCA OGK200/ID45/Δ/450 | 3069761 | 2,116 | 4 |
| | 600 | KCA OGK200/ID45/Δ/600 | 3069770 | 2,714 | 4 |
| | 900 | KCA OGK200/ID45/Δ/900 | 3069779 | 3,937 | 4 |
| 300 | 300 | KCA OGK300/ID45/Δ/300 | 3069753 | 2,030 | 4 |
| | 450 | KCA OGK300/ID45/Δ/450 | 3069762 | 2,864 | 4 |
| | 600 | KCA OGK300/ID45/Δ/600 | 3069771 | 3,672 | 4 |
| | 900 | KCA OGK300/ID45/Δ/900 | 3069780 | 5,327 | 4 |
| 450 | 300 | KCA OGK450/ID45/Δ/300 | 3069754 | 2,826 | 4 |
| | 450 | KCA OGK450/ID45/Δ/450 | 3069763 | 3,986 | 4 |
| | 600 | KCA OGK450/ID45/Δ/600 | 3069772 | 5,111 | 4 |
| | 900 | KCA OGK450/ID45/Δ/900 | 3069781 | 7,413 | 4 |
| 600 | 300 | KCA OGK600/ID45/Δ/300 | 3069755 | 3,621 | 4 |
| | 450 | KCA OGK600/ID45/Δ/450 | 3069764 | 5,108 | 4 |
| | 600 | KCA OGK600/ID45/Δ/600 | 3069773 | 6,548 | 4 |
| | 900 | KCA OGK600/ID45/Δ/900 | 3069782 | 9,500 | 4 |
| 750 | 300 | KCA OGK750/ID45/Δ/300 | 3069756 | 4,417 | 4 |
| | 450 | KCA OGK750/ID45/Δ/450 | 3069765 | 6,230 | 4 |
| | 600 | KCA OGK750/ID45/Δ/600 | 3069774 | 7,987 | 4 |
| | 900 | KCA OGK750/ID45/Δ/900 | 3069783 | 11,585 | 4 |
| 900 | 300 | KCA OGK900/ID45/Δ/300 | 3069757 | 5,213 | 4 |
| | 450 | KCA OGK900/ID45/Δ/450 | 3069766 | 7,352 | 4 |
| | 600 | KCA OGK900/ID45/Δ/600 | 3069775 | 9,425 | 4 |
| | 900 | KCA OGK900/ID45/Δ/900 | 3069784 | 13,671 | 4 |
| 1000 | 300 | KCA OGK1000/ID45/Δ/300 | 3069758 | 5,743 | 4 |
| | 450 | KCA OGK1000/ID45/Δ/450 | 3069767 | 8,100 | 4 |
| | 600 | KCA OGK1000/ID45/Δ/600 | 3069776 | 10,384 | 4 |
| | 900 | KCA OGK1000/ID45/Δ/900 | 3069785 | 15,061 | 4 |
| 1100 | 300 | KCA OGK1100/ID45/Δ/300 | 3069759 | 6,273 | 4 |
| | 450 | KCA OGK1100/ID45/Δ/450 | 3069768 | 8,848 | 4 |
| | 600 | KCA OGK1100/ID45/Δ/600 | 3069777 | 11,342 | 4 |
| | 900 | KCA OGK1100/ID45/Δ/900 | 3069786 | 16,452 | 4 |

- Δ: All products codes and weights given are in kilograms (kg) and are hotdip galvanized (HDG) finish.
- To obtain the appropriate component weight in other finishes, multiply the given weight by the below finish factors.
- Finish factor: HDG (ISO En1461) = (HDG):1 / Stainless Steel = (SS) : 0.94

■ Please indicate order code in your orders.

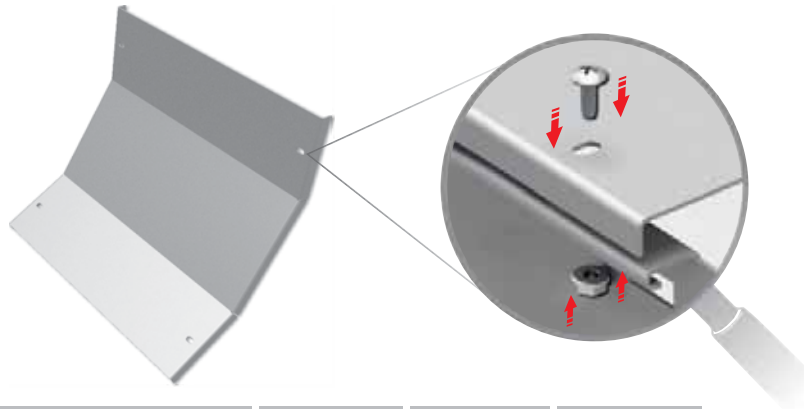
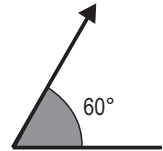
■ Please contact us for special modules.

■ Material weights may vary by ± 10%

ID60



Fitting cover shown for illustration purposes only



| Width (mm) | Radius (mm) | Description | Code | Weight (kg) | M6x12 Cover Fixing Set |
|------------|-------------|------------------------|---------|-------------|------------------------|
| 150 | 300 | KCA OGK150/ID60/Δ/300 | 3069787 | 1,543 | 4 |
| | 450 | KCA OGK150/ID60/Δ/450 | 3069796 | 2,188 | 4 |
| | 600 | KCA OGK150/ID60/Δ/600 | 3069805 | 2,833 | 4 |
| | 900 | KCA OGK150/ID60/Δ/900 | 3069814 | 4,123 | 4 |
| 200 | 300 | KCA OGK200/ID60/Δ/300 | 3069788 | 1,874 | 4 |
| | 450 | KCA OGK200/ID60/Δ/450 | 3069797 | 2,658 | 4 |
| | 600 | KCA OGK200/ID60/Δ/600 | 3069806 | 3,441 | 4 |
| | 900 | KCA OGK200/ID60/Δ/900 | 3069815 | 5,007 | 4 |
| 300 | 300 | KCA OGK300/ID60/Δ/300 | 3069789 | 2,537 | 4 |
| | 450 | KCA OGK300/ID60/Δ/450 | 3069798 | 3,596 | 4 |
| | 600 | KCA OGK300/ID60/Δ/600 | 3069807 | 4,655 | 4 |
| | 900 | KCA OGK300/ID60/Δ/900 | 3069816 | 6,775 | 4 |
| 450 | 300 | KCA OGK450/ID60/Δ/300 | 3069790 | 3,530 | 4 |
| | 450 | KCA OGK450/ID60/Δ/450 | 3069799 | 5,004 | 4 |
| | 600 | KCA OGK450/ID60/Δ/600 | 3069808 | 6,478 | 4 |
| | 900 | KCA OGK450/ID60/Δ/900 | 3069817 | 9,426 | 4 |
| 600 | 300 | KCA OGK600/ID60/Δ/300 | 3069791 | 4,524 | 4 |
| | 450 | KCA OGK600/ID60/Δ/450 | 3069800 | 6,412 | 4 |
| | 600 | KCA OGK600/ID60/Δ/600 | 3069809 | 8,301 | 4 |
| | 900 | KCA OGK600/ID60/Δ/900 | 3069818 | 12,078 | 4 |
| 750 | 300 | KCA OGK750/ID60/Δ/300 | 3069792 | 5,518 | 4 |
| | 450 | KCA OGK750/ID60/Δ/450 | 3069801 | 7,821 | 4 |
| | 600 | KCA OGK750/ID60/Δ/600 | 3069810 | 10,123 | 4 |
| | 900 | KCA OGK750/ID60/Δ/900 | 3069819 | 14,729 | 4 |
| 900 | 300 | KCA OGK900/ID60/Δ/300 | 3069793 | 6,511 | 4 |
| | 450 | KCA OGK900/ID60/Δ/450 | 3069802 | 9,229 | 4 |
| | 600 | KCA OGK900/ID60/Δ/600 | 3069811 | 11,946 | 4 |
| | 900 | KCA OGK900/ID60/Δ/900 | 3069820 | 17,381 | 4 |
| 1000 | 300 | KCA OGK1000/ID60/Δ/300 | 3069794 | 7,173 | 4 |
| | 450 | KCA OGK1000/ID60/Δ/450 | 3069803 | 10,167 | 4 |
| | 600 | KCA OGK1000/ID60/Δ/600 | 3069812 | 13,162 | 4 |
| | 900 | KCA OGK1000/ID60/Δ/900 | 3069821 | 19,149 | 4 |
| 1100 | 300 | KCA OGK1100/ID60/Δ/300 | 3069795 | 7,836 | 4 |
| | 450 | KCA OGK1100/ID60/Δ/450 | 3069804 | 11,106 | 4 |
| | 600 | KCA OGK1100/ID60/Δ/600 | 3069813 | 14,376 | 4 |
| | 900 | KCA OGK1100/ID60/Δ/900 | 3069822 | 20,917 | 4 |

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- To obtain the appropriate component weight in other finishes, multiply the given weight by the below finish factors.
- Finish factor: HDG (ISO En1461) = (HDG):1 / Stainless Steel = (SS) : 0.94

■ Please indicate order code in your orders.

■ Please contact us for special modules.

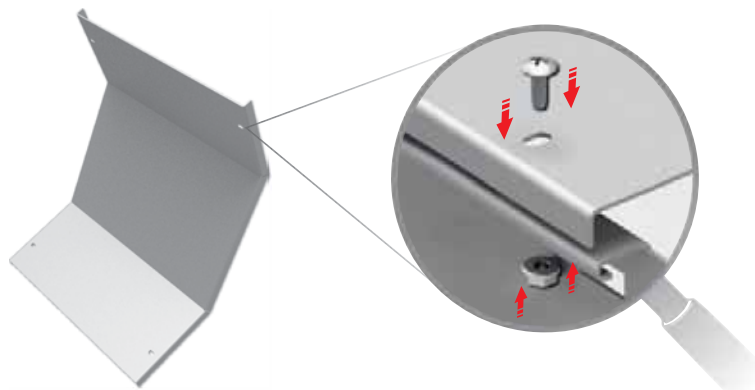
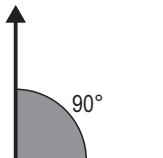
■ Material weights may vary by ± 10%

►► Fittings Cover ID90 Vertical Inside

ID90



Fitting cover shown for illustration purposes only



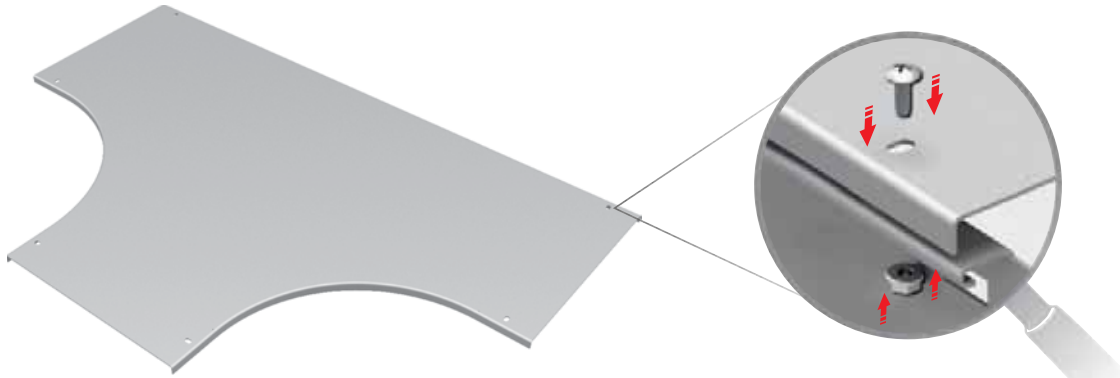
| Width (mm) | Radius (mm) | Description | Code | Weight (kg) | M6x12 Cover Fixing Set |
|------------|-------------|------------------------|---------|-------------|------------------------|
| 150 | 300 | KCA OGK150/ID90/Δ/300 | 3069823 | 2,262 | 4 |
| | 450 | KCA OGK150/ID90/Δ/450 | 3069832 | 3,230 | 4 |
| | 600 | KCA OGK150/ID90/Δ/600 | 3069841 | 4,257 | 4 |
| | 900 | KCA OGK150/ID90/Δ/900 | 3069850 | 6,233 | 4 |
| 200 | 300 | KCA OGK200/ID90/Δ/300 | 3069824 | 2,747 | 4 |
| | 450 | KCA OGK200/ID90/Δ/450 | 3069833 | 3,922 | 4 |
| | 600 | KCA OGK200/ID90/Δ/600 | 3069842 | 5,169 | 4 |
| | 900 | KCA OGK200/ID90/Δ/900 | 3069851 | 7,568 | 4 |
| 300 | 300 | KCA OGK300/ID90/Δ/300 | 3069825 | 3,716 | 4 |
| | 450 | KCA OGK300/ID90/Δ/450 | 3069834 | 5,305 | 4 |
| | 600 | KCA OGK300/ID90/Δ/600 | 3069843 | 6,994 | 4 |
| | 900 | KCA OGK300/ID90/Δ/900 | 3069852 | 10,238 | 4 |
| 450 | 300 | KCA OGK450/ID90/Δ/300 | 3069826 | 5,170 | 4 |
| | 450 | KCA OGK450/ID90/Δ/450 | 3069835 | 7,381 | 4 |
| | 600 | KCA OGK450/ID90/Δ/600 | 3069844 | 9,730 | 4 |
| | 900 | KCA OGK450/ID90/Δ/900 | 3069853 | 14,244 | 4 |
| 600 | 300 | KCA OGK600/ID90/Δ/300 | 3069827 | 6,624 | 4 |
| | 450 | KCA OGK600/ID90/Δ/450 | 3069836 | 9,457 | 4 |
| | 600 | KCA OGK600/ID90/Δ/600 | 3069845 | 12,466 | 4 |
| | 900 | KCA OGK600/ID90/Δ/900 | 3069854 | 18,250 | 4 |
| 750 | 300 | KCA OGK750/ID90/Δ/300 | 3069828 | 8,078 | 4 |
| | 450 | KCA OGK750/ID90/Δ/450 | 3069837 | 11,532 | 4 |
| | 600 | KCA OGK750/ID90/Δ/600 | 3069846 | 15,203 | 4 |
| | 900 | KCA OGK750/ID90/Δ/900 | 3069855 | 22,255 | 4 |
| 900 | 300 | KCA OGK900/ID90/Δ/300 | 3069829 | 9,533 | 4 |
| | 450 | KCA OGK900/ID90/Δ/450 | 3069838 | 13,608 | 4 |
| | 600 | KCA OGK900/ID90/Δ/600 | 3069847 | 17,940 | 4 |
| | 900 | KCA OGK900/ID90/Δ/900 | 3069856 | 26,261 | 4 |
| 1000 | 300 | KCA OGK1000/ID90/Δ/300 | 3069830 | 10,502 | 4 |
| | 450 | KCA OGK1000/ID90/Δ/450 | 3069839 | 14,993 | 4 |
| | 600 | KCA OGK1000/ID90/Δ/600 | 3069848 | 19,764 | 4 |
| | 900 | KCA OGK1000/ID90/Δ/900 | 3069857 | 28,932 | 4 |
| 1100 | 300 | KCA OGK1100/ID90/Δ/300 | 3069831 | 11,472 | 4 |
| | 450 | KCA OGK1100/ID90/Δ/450 | 3069840 | 16,377 | 4 |
| | 600 | KCA OGK1100/ID90/Δ/600 | 3069849 | 21,589 | 4 |
| | 900 | KCA OGK1100/ID90/Δ/900 | 3069858 | 31,603 | 4 |

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- To obtain the appropriate component weight in other finishes, multiply the given weight by the below finish factors.
- Finish factor: HDG (ISO En1461) = (HDG):1 / Stainless Steel = (SS) : 0.94

■ Please indicate order code in your orders.

■ Please contact us for special modules.

■ Material weights may vary by ± 10%



Fitting Cover shown
for illustration purposes only

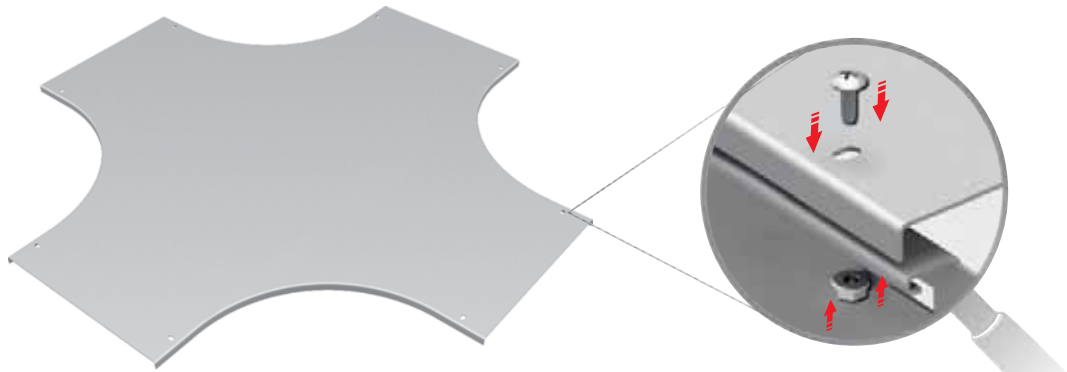
| Width (mm) | Radius (mm) | Description | Code | Weight (kg) | M6x12 Cover Fixing Set |
|------------|-------------|----------------------|---------|-------------|------------------------|
| 150 | 300 | KCA OGK150/YT/Δ/300 | 3070419 | 5,652 | 6 |
| | 450 | KCA OGK150/YT/Δ/450 | 3070428 | 8,212 | 6 |
| | 600 | KCA OGK150/YT/Δ/600 | 3070437 | 11,103 | 6 |
| | 900 | KCA OGK150/YT/Δ/900 | 3070446 | 17,890 | 6 |
| 200 | 300 | KCA OGK200/YT/Δ/300 | 3070420 | 7,000 | 6 |
| | 450 | KCA OGK200/YT/Δ/450 | 3070429 | 9,948 | 6 |
| | 600 | KCA OGK200/YT/Δ/600 | 3070438 | 13,230 | 6 |
| | 900 | KCA OGK200/YT/Δ/900 | 3070447 | 20,793 | 6 |
| 300 | 300 | KCA OGK300/YT/Δ/300 | 3070421 | 9,956 | 6 |
| | 450 | KCA OGK300/YT/Δ/450 | 3070430 | 13,682 | 6 |
| | 600 | KCA OGK300/YT/Δ/600 | 3070439 | 17,881 | 6 |
| | 900 | KCA OGK300/YT/Δ/900 | 3070448 | 26,858 | 6 |
| 450 | 300 | KCA OGK450/YT/Δ/300 | 3070422 | 15,038 | 6 |
| | 450 | KCA OGK450/YT/Δ/450 | 3070431 | 19,929 | 6 |
| | 600 | KCA OGK450/YT/Δ/600 | 3070440 | 25,154 | 6 |
| | 900 | KCA OGK450/YT/Δ/900 | 3070449 | 36,603 | 6 |
| 600 | 300 | KCA OGK600/YT/Δ/300 | 3070423 | 20,897 | 6 |
| | 450 | KCA OGK600/YT/Δ/450 | 3070432 | 26,953 | 6 |
| | 600 | KCA OGK600/YT/Δ/600 | 3070441 | 33,516 | 6 |
| | 900 | KCA OGK600/YT/Δ/900 | 3070450 | 47,124 | 6 |
| 750 | 300 | KCA OGK750/YT/Δ/300 | 3070424 | 27,533 | 6 |
| | 450 | KCA OGK750/YT/Δ/450 | 3070433 | 34,756 | 6 |
| | 600 | KCA OGK750/YT/Δ/600 | 3070442 | 42,312 | 6 |
| | 900 | KCA OGK750/YT/Δ/900 | 3070451 | 58,423 | 6 |
| 900 | 300 | KCA OGK900/YT/Δ/300 | 3070425 | 34,947 | 6 |
| | 450 | KCA OGK900/YT/Δ/450 | 3070434 | 43,335 | 6 |
| | 600 | KCA OGK900/YT/Δ/600 | 3070443 | 52,056 | 6 |
| | 900 | KCA OGK900/YT/Δ/900 | 3070452 | 70,500 | 6 |
| 1000 | 300 | KCA OGK1000/YT/Δ/300 | 3070426 | 40,321 | 6 |
| | 450 | KCA OGK1000/YT/Δ/450 | 3070435 | 49,486 | 6 |
| | 600 | KCA OGK1000/YT/Δ/600 | 3070444 | 58,984 | 6 |
| | 900 | KCA OGK1000/YT/Δ/900 | 3070453 | 78,982 | 6 |
| 1100 | 300 | KCA OGK1100/YT/Δ/300 | 3070427 | 46,039 | 6 |
| | 450 | KCA OGK1100/YT/Δ/450 | 3070436 | 55,982 | 6 |
| | 600 | KCA OGK1100/YT/Δ/600 | 3070445 | 66,257 | 6 |
| | 900 | KCA OGK1100/YT/Δ/900 | 3070454 | 87,810 | 6 |

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- To obtain the appropriate component weight in other finishes, multiply the given weight by the below finish factors.
- Finish factor: HDG (ISO En1461) = (HDG):1 / Stainless Steel = (SS) : 0.94

■ Please indicate order code in your orders.

■ Please contact us for special modules.

■ Material weights may vary by ± 10%



Fitting Cover shown
for illustration purposes only

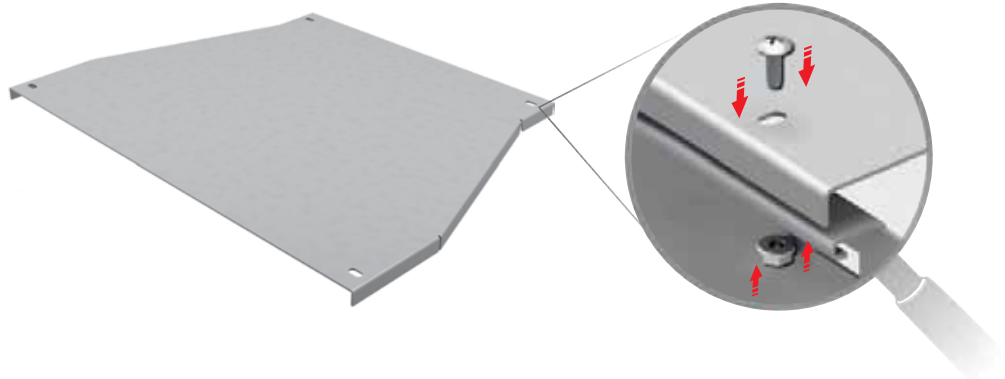
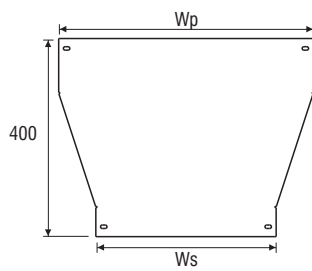
| Width (mm) | Radius (mm) | Description | Code | Weight (kg) | M6x12 Cover Fixing Set |
|------------|-------------|----------------------|---------|-------------|------------------------|
| 150 | 300 | KCA OGK150/AD/Δ/300 | 3070455 | 7,721 | 8 |
| | 450 | KCA OGK150/AD/Δ/450 | 3070464 | 11,696 | 8 |
| | 600 | KCA OGK150/AD/Δ/600 | 3070473 | 16,338 | 8 |
| | 900 | KCA OGK150/AD/Δ/900 | 3070482 | 27,625 | 8 |
| 200 | 300 | KCA OGK200/AD/Δ/300 | 3070456 | 9,382 | 8 |
| | 450 | KCA OGK200/AD/Δ/450 | 3070465 | 13,874 | 8 |
| | 600 | KCA OGK200/AD/Δ/600 | 3070474 | 19,036 | 8 |
| | 900 | KCA OGK200/AD/Δ/900 | 3070483 | 31,359 | 8 |
| 300 | 300 | KCA OGK300/AD/Δ/300 | 3070457 | 12,962 | 8 |
| | 450 | KCA OGK300/AD/Δ/450 | 3070466 | 18,491 | 8 |
| | 600 | KCA OGK300/AD/Δ/600 | 3070475 | 24,687 | 8 |
| | 900 | KCA OGK300/AD/Δ/900 | 3070484 | 39,083 | 8 |
| 450 | 300 | KCA OGK450/AD/Δ/300 | 3070458 | 18,979 | 8 |
| | 450 | KCA OGK450/AD/Δ/450 | 3070467 | 26,063 | 8 |
| | 600 | KCA OGK450/AD/Δ/600 | 3070476 | 33,814 | 8 |
| | 900 | KCA OGK450/AD/Δ/900 | 3070485 | 51,318 | 8 |
| 600 | 300 | KCA OGK600/AD/Δ/300 | 3070459 | 25,775 | 8 |
| | 450 | KCA OGK600/AD/Δ/450 | 3070468 | 34,412 | 8 |
| | 600 | KCA OGK600/AD/Δ/600 | 3070477 | 43,718 | 8 |
| | 900 | KCA OGK600/AD/Δ/900 | 3070486 | 64,331 | 8 |
| 750 | 300 | KCA OGK750/AD/Δ/300 | 3070460 | 33,348 | 8 |
| | 450 | KCA OGK750/AD/Δ/450 | 3070469 | 43,539 | 8 |
| | 600 | KCA OGK750/AD/Δ/600 | 3070478 | 54,399 | 8 |
| | 900 | KCA OGK750/AD/Δ/900 | 3070487 | 78,120 | 8 |
| 900 | 300 | KCA OGK900/AD/Δ/300 | 3070461 | 41,697 | 8 |
| | 450 | KCA OGK900/AD/Δ/450 | 3070470 | 53,444 | 8 |
| | 600 | KCA OGK900/AD/Δ/600 | 3070479 | 65,857 | 8 |
| | 900 | KCA OGK900/AD/Δ/900 | 3070488 | 92,687 | 8 |
| 1000 | 300 | KCA OGK1000/AD/Δ/300 | 3070462 | 47,695 | 8 |
| | 450 | KCA OGK1000/AD/Δ/450 | 3070471 | 60,477 | 8 |
| | 600 | KCA OGK1000/AD/Δ/600 | 3070480 | 73,928 | 8 |
| | 900 | KCA OGK1000/AD/Δ/900 | 3070489 | 102,829 | 8 |
| 1100 | 300 | KCA OGK1100/AD/Δ/300 | 3070463 | 54,038 | 8 |
| | 450 | KCA OGK1100/AD/Δ/450 | 3070472 | 67,857 | 8 |
| | 600 | KCA OGK1100/AD/Δ/600 | 3070481 | 82,343 | 8 |
| | 900 | KCA OGK1100/AD/Δ/900 | 3070490 | 113,318 | 8 |

- Δ: All products codes and weights given are in kilograms (kg) and are hotdip galvanized (HDG) finish.
- To obtain the appropriate component weight in other finishes, multiply the given weight by the below finish factors.
- Finish factor: HDG (ISO En1461) = (HDG):1 / Stainless Steel = (SS) : 0.94

■ Please indicate order code in your orders.

■ Please contact us for special modules.

■ Material weights may vary by ± 10%



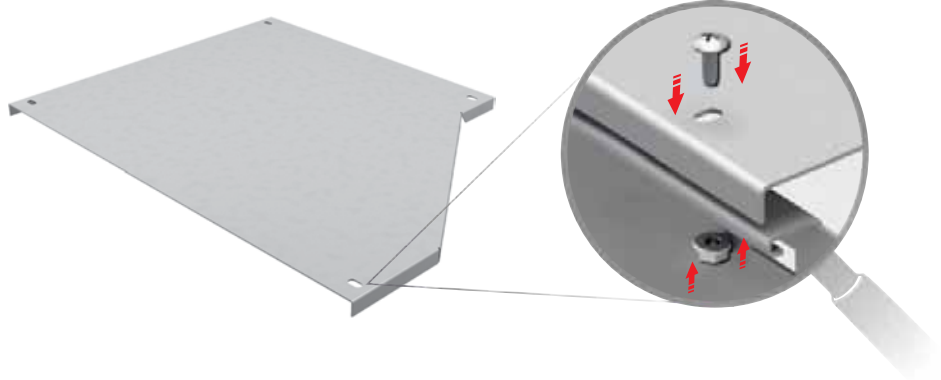
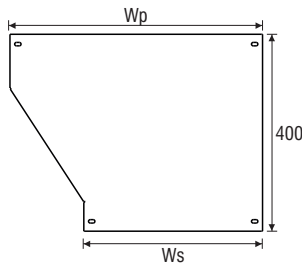
| Ws (mm) | Wp (mm) | Description | Code | Weight (kg) |
|---------|---------|-------------------------|---------|-------------|
| 150 | 200 | KCA OGK150/200/MR / Δ | 3106939 | 0,235 |
| | 300 | KCA OGK150/300/MR / Δ | 3106940 | 0,569 |
| | 450 | KCA OGK150/450/MR / Δ | 3106941 | 1,093 |
| | 600 | KCA OGK150/600/MR / Δ | 3106942 | 2,163 |
| | 750 | KCA OGK150/750/MR / Δ | 3106943 | 4,057 |
| | 900 | KCA OGK150/900/MR / Δ | 3106944 | 5,667 |
| | 1000 | KCA OGK150/1000/MR / Δ | 3106945 | 7,247 |
| | 1100 | KCA OGK150/1100/MR / Δ | 3106946 | 9,002 |
| 200 | 300 | KCA OGK200/300/MR / Δ | 3106947 | 0,611 |
| | 450 | KCA OGK200/450/MR / Δ | 3106948 | 1,158 |
| | 600 | KCA OGK200/600/MR / Δ | 3106949 | 2,278 |
| | 750 | KCA OGK200/750/MR / Δ | 3106950 | 4,241 |
| | 900 | KCA OGK200/900/MR / Δ | 3106951 | 5,896 |
| | 1000 | KCA OGK200/1000/MR / Δ | 3106952 | 7,520 |
| | 1100 | KCA OGK200/1100/MR / Δ | 3106953 | 9,318 |
| 300 | 450 | KCA OGK300/450/MR / Δ | 3106954 | 1,288 |
| | 600 | KCA OGK300/600/MR / Δ | 3106955 | 2,509 |
| | 750 | KCA OGK300/750/MR / Δ | 3106956 | 4,612 |
| | 900 | KCA OGK300/900/MR / Δ | 3106957 | 6,353 |
| | 1000 | KCA OGK300/1000/MR / Δ | 3106958 | 8,065 |
| | 1100 | KCA OGK300/1100/MR / Δ | 3106959 | 9,950 |
| 450 | 600 | KCA OGK450/600/MR / Δ | 3106960 | 2,858 |
| | 750 | KCA OGK450/750/MR / Δ | 3106961 | 5,171 |
| | 900 | KCA OGK450/900/MR / Δ | 3106962 | 7,042 |
| | 1000 | KCA OGK450/1000/MR / Δ | 3106963 | 8,884 |
| | 1100 | KCA OGK450/1100/MR / Δ | 3106964 | 10,899 |
| 600 | 750 | KCA OGK600/750/MR / Δ | 3106965 | 5,926 |
| | 900 | KCA OGK600/900/MR / Δ | 3106966 | 7,968 |
| | 1000 | KCA OGK600/1000/MR / Δ | 3106967 | 9,983 |
| | 1100 | KCA OGK600/1100/MR / Δ | 3106968 | 12,171 |
| 750 | 900 | KCA OGK750/900/MR / Δ | 3106969 | 8,434 |
| | 1000 | KCA OGK750/1000/MR / Δ | 3106970 | 10,535 |
| | 1100 | KCA OGK750/1100/MR / Δ | 3106971 | 12,810 |
| 900 | 1000 | KCA OGK900/1000/MR / Δ | 3106972 | 11,369 |
| | 1100 | KCA OGK900/1100/MR / Δ | 3106973 | 13,770 |
| 1000 | 1100 | KCA OGK1000/1100/MR / Δ | 3106974 | 14,4144 |

- Δ: All products codes and weights given are in kilograms (kg) and are hotdip galvanized (HDG) finish.
- To obtain the appropriate component weight in other finishes, multiply the given weight by the below finish factors.
- Finish factor: HDG (ISO En1461) = (HDG):1 / Stainless Steel = (SS) : 0.94

■ Please indicate order code in your orders.

■ Please contact us for special modules.

■ Material weights may vary by ± 10%



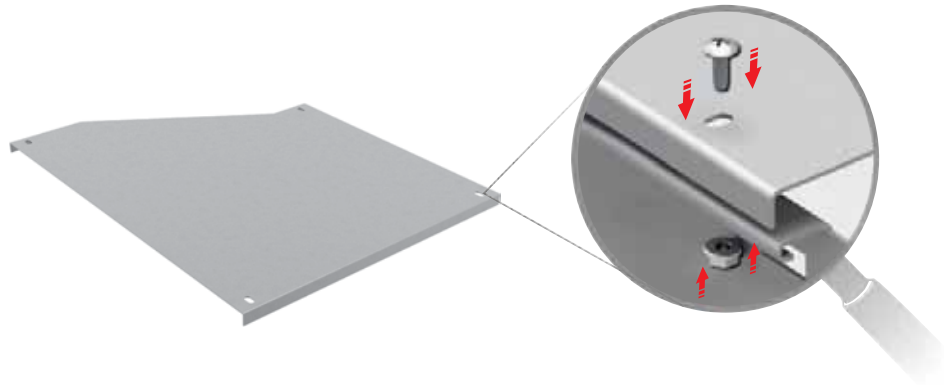
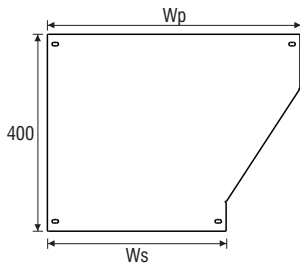
| Ws (mm) | Wp (mm) | Description | Code | Weight (kg) |
|---------|---------|-------------------------|---------|-------------|
| 150 | 200 | KCA OGK150/200/LR / Δ | 3106903 | 0,222 |
| | 300 | KCA OGK150/300/LR / Δ | 3106904 | 0,538 |
| | 450 | KCA OGK150/450/LR / Δ | 3106905 | 1,000 |
| | 600 | KCA OGK150/600/LR / Δ | 3106906 | 1,987 |
| | 750 | KCA OGK150/750/LR / Δ | 3106907 | 3,721 |
| | 900 | KCA OGK150/900/LR / Δ | 3106908 | 5,192 |
| | 1000 | KCA OGK150/1000/LR / Δ | 3106909 | 6,634 |
| | 1100 | KCA OGK150/1100/LR / Δ | 3106910 | 8,234 |
| 200 | 300 | KCA OGK200/300/LR / Δ | 3106911 | 0,573 |
| | 450 | KCA OGK200/450/LR / Δ | 3106912 | 1,064 |
| | 600 | KCA OGK200/600/LR / Δ | 3106913 | 2,089 |
| | 750 | KCA OGK200/750/LR / Δ | 3106914 | 3,887 |
| | 900 | KCA OGK200/900/LR / Δ | 3106915 | 5,398 |
| | 1000 | KCA OGK200/1000/LR / Δ | 3106916 | 6,880 |
| | 1100 | KCA OGK200/1100/LR / Δ | 3106917 | 8,518 |
| 300 | 450 | KCA OGK300/450/LR / Δ | 3106918 | 1,180 |
| | 600 | KCA OGK300/600/LR / Δ | 3106919 | 2,295 |
| | 750 | KCA OGK300/750/LR / Δ | 3106920 | 4,220 |
| | 900 | KCA OGK300/900/LR / Δ | 3106921 | 5,810 |
| | 1000 | KCA OGK300/1000/LR / Δ | 3106922 | 7,370 |
| | 1100 | KCA OGK300/1100/LR / Δ | 3106923 | 9,088 |
| 450 | 600 | KCA OGK450/600/LR / Δ | 3106924 | 2,607 |
| | 750 | KCA OGK450/750/LR / Δ | 3106925 | 4,721 |
| | 900 | KCA OGK450/900/LR / Δ | 3106926 | 6,429 |
| | 1000 | KCA OGK450/1000/LR / Δ | 3106927 | 8,108 |
| | 1100 | KCA OGK450/1100/LR / Δ | 3106928 | 9,944 |
| 600 | 750 | KCA OGK600/750/LR / Δ | 3106929 | 5,396 |
| | 900 | KCA OGK600/900/LR / Δ | 3106930 | 7,259 |
| | 1000 | KCA OGK600/1000/LR / Δ | 3106931 | 9,095 |
| | 1100 | KCA OGK600/1100/LR / Δ | 3106932 | 11,088 |
| 750 | 900 | KCA OGK750/900/LR / Δ | 3106933 | 7,677 |
| | 1000 | KCA OGK750/1000/LR / Δ | 3106934 | 9,591 |
| | 1100 | KCA OGK750/1100/LR / Δ | 3106935 | 11,663 |
| 900 | 1000 | KCA OGK900/1000/LR / Δ | 3106936 | 10,342 |
| | 1100 | KCA OGK900/1100/LR / Δ | 3106937 | 12,529 |
| 1000 | 1100 | KCA OGK1000/1100/LR / Δ | 3106938 | 13,110 |

- Δ: All products codes and weights given are in kilograms (kg) and are hotdip galvanized (HDG) finish.
- To obtain the appropriate component weight in other finishes, multiply the given weight by the below finish factors.
- Finish factor: HDG (ISO En1461) = (HDG):1 / Stainless Steel = (SS) : 0.94

■ Please indicate order code in your orders.

■ Please contact us for special modules.

■ Material weights may vary by ± 10%



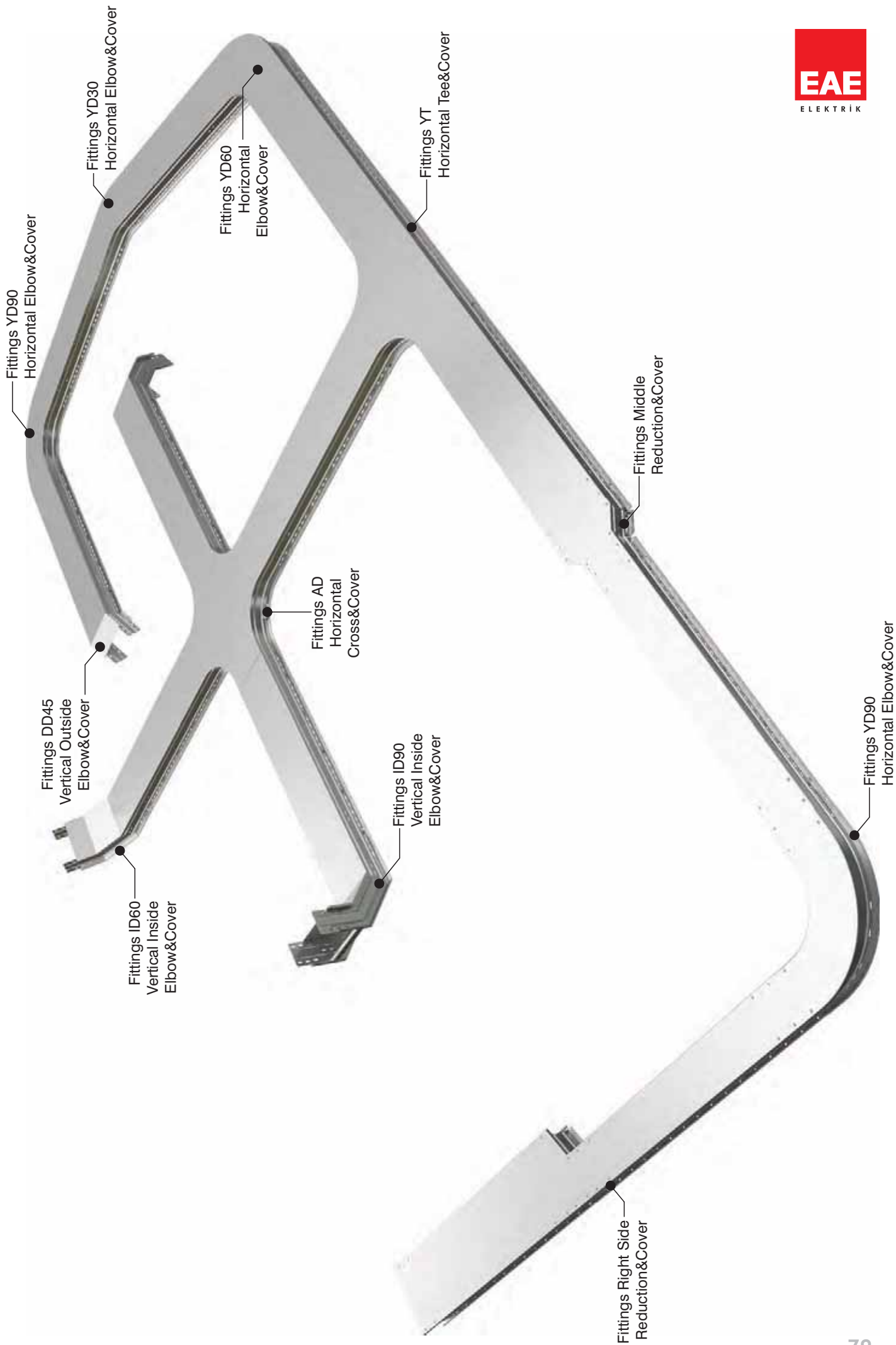
| Ws (mm) | Wp (mm) | Description | Code | Weight (kg) |
|---------|---------|-------------------------|---------|-------------|
| 150 | 200 | KCA OGK150/200/RR / Δ | 3106867 | 0,222 |
| | 300 | KCA OGK150/300/RR / Δ | 3106868 | 0,538 |
| | 450 | KCA OGK150/450/RR / Δ | 3106869 | 1,000 |
| | 600 | KCA OGK150/600/RR / Δ | 3106870 | 1,987 |
| | 750 | KCA OGK150/750/RR / Δ | 3106871 | 3,721 |
| | 900 | KCA OGK150/900/RR / Δ | 3106872 | 5,192 |
| | 1000 | KCA OGK150/1000/RR / Δ | 3106873 | 6,634 |
| | 1100 | KCA OGK150/1100/RR / Δ | 3106874 | 8,234 |
| 200 | 300 | KCA OGK200/300/RR / Δ | 3106875 | 0,573 |
| | 450 | KCA OGK200/450/RR / Δ | 3106876 | 1,064 |
| | 600 | KCA OGK200/600/RR / Δ | 3106877 | 2,089 |
| | 750 | KCA OGK200/750/RR / Δ | 3106878 | 3,887 |
| | 900 | KCA OGK200/900/RR / Δ | 3106879 | 5,398 |
| | 1000 | KCA OGK200/1000/RR / Δ | 3106880 | 6,880 |
| | 1100 | KCA OGK200/1100/RR / Δ | 3106881 | 8,518 |
| 300 | 450 | KCA OGK300/450/RR / Δ | 3106882 | 1,180 |
| | 600 | KCA OGK 300/600/RR / Δ | 3106883 | 2,295 |
| | 750 | KCA OGK300/750/RR / Δ | 3106884 | 4,220 |
| | 900 | KCA OGK300/900/RR / Δ | 3106885 | 5,810 |
| | 1000 | KCA OGK300/1000/RR / Δ | 3106886 | 7,370 |
| | 1100 | KCA OGK300/1100/RR / Δ | 3106887 | 9,088 |
| 450 | 600 | KCA OGK450/600/RR / Δ | 3106888 | 2,607 |
| | 750 | KCA OGK450/750/RR / Δ | 3106889 | 4,721 |
| | 900 | KCA OGK450/900/RR / Δ | 3106890 | 6,429 |
| | 1000 | KCA OGK450/1000/RR / Δ | 3106891 | 8,108 |
| | 1100 | KCA OGK450/1100/RR / Δ | 3106892 | 9,944 |
| 600 | 750 | KCA OGK600/750/RR / Δ | 3106893 | 5,396 |
| | 900 | KCA OGK600/900/RR / Δ | 3106894 | 7,259 |
| | 1000 | KCA OGK600/1000/RR / Δ | 3106895 | 9,095 |
| | 1100 | KCA OGK600/1100/RR / Δ | 3106896 | 11,088 |
| 750 | 900 | KCA OGK750/900/RR / Δ | 3106897 | 7,677 |
| | 1000 | KCA OGK750/1000/RR / Δ | 3106898 | 9,591 |
| | 1100 | KCA OGK750/1100/RR / Δ | 3106899 | 11,663 |
| 900 | 1000 | KCA OGK900/1000/RR / Δ | 3106900 | 10,342 |
| | 1100 | KCA OGK900/1100/RR / Δ | 3106901 | 12,529 |
| 1000 | 1100 | KCA OGK1000/1100/RR / Δ | 3106902 | 13,110 |

- Δ: All products codes and weights given are in kilograms (kg) and are hotdip galvanized (HDG) finish.
- To obtain the appropriate component weight in other finishes, multiply the given weight by the below finish factors.
- Finish factor: HDG (ISO En1461) = (HDG):1 / Stainless Steel = (SS) : 0.94

■ Please indicate order code in your orders.

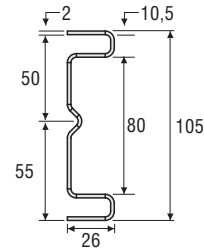
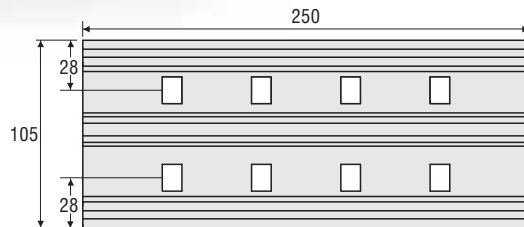
■ Please contact us for special modules.

■ Material weights may vary by ± 10%



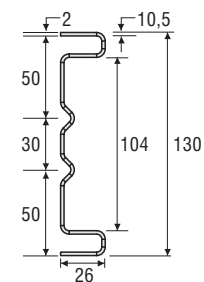
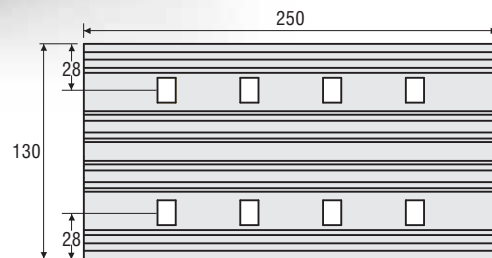
►► H:100 Straight Splice Plate

| Description | Weight | Code |
|---------------------|--------|---------|
| 100 KCA OG / SP / Δ | 0,820 | 3070491 |



►► H:125 Straight Splice Plate

| Description | Weight | Code |
|---------------------|--------|---------|
| 125 KCA OG / SP / Δ | 0,946 | 3070492 |



- 8 pcs M10X20 bolt set should be ordered.
- Δ: All products codes and weights given are in kilograms (kg) and are hotdip galvanized (HDG) finish.
- To obtain the appropriate component weight in other finishes, multiply the given weight by the below finish factors.
- Finish factor: HDG (ISO En1461) = (HDG):1 / Stainless Steel = (SS) : 0.94

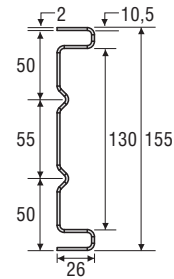
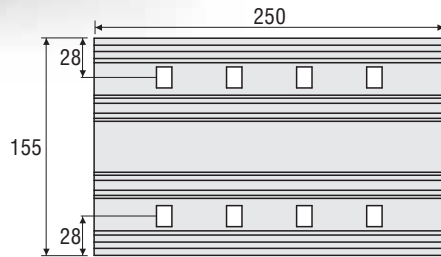
■ Please indicate order code in your orders.

■ Please contact us for special modules.

■ Material weights may vary by ± 10%

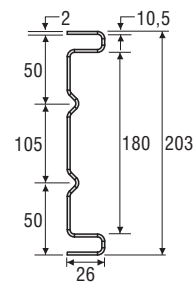
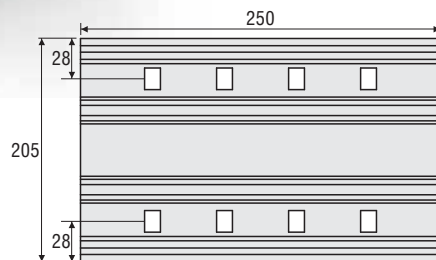
►► H:150 Straight Splice Plate

| Description | Weight | Code |
|---------------------|--------|---------|
| 150 KCA OG / SP / Δ | 1,054 | 3070493 |



►► H:200 Straight Splice Plate

| Description | Weight | Code |
|---------------------|--------|---------|
| 200 KCA OG / SP / Δ | 1,269 | 3070494 |



- 8 pcs M10X20 bolt set should be ordered.
- Δ: All products codes and weights given are in kilograms (kg) and are hotdip galvanized (HDG) finish.
- To obtain the appropriate component weight in other finishes, multiply the given weight by the below finish factors.
- Finish factor: HDG (ISO En1461) = (HDG):1 / Stainless Steel = (SS) : 0.94

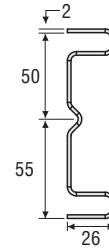
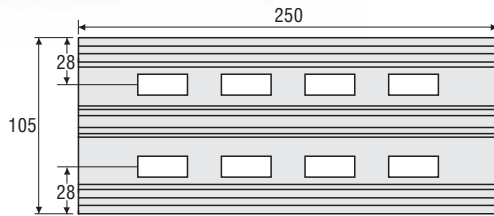
■ Please indicate order code in your orders.

■ Please contact us for special modules.

■ Material weights may vary by ± 10%

►► H:100 Expansion Splice Plate

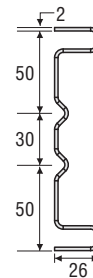
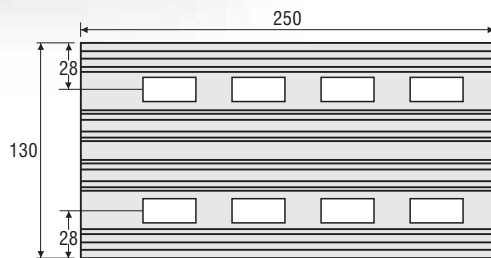
| Description | Weight (kg) | Code |
|----------------------|-------------|---------|
| 100 KCA OG / EXP / Δ | 0,820 | 3070819 |



- 8 Pcs Expansion Bolt Set
 - 1 pc M10x30 Round Head Square Neck Bolt
 - 1 pc M12 Plain Washer
 - 2 pcs M10 Nut

►► H:125 Expansion Splice Plate

| Description | Weight (kg) | Code |
|----------------------|-------------|---------|
| 125 KCA OG / EXP / Δ | 0,946 | 3070820 |



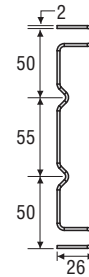
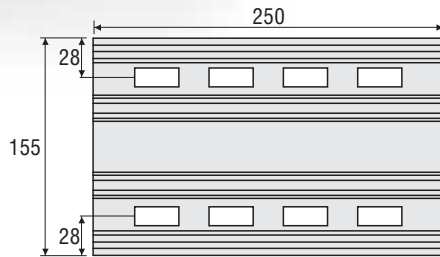
- 8 Pcs Expansion Bolt Set
 - 1 pc M10x30 Round Head Square Neck Bolt
 - 1 pc M12 Plain Washer
 - 2 pcs M10 Nut



- 8 pcs M10X30 Expansion bolt set should be ordered.
- Δ: All products codes and weights given are in kilograms (kg) and are hotdip galvanized (HDG) finish.
- To obtain the appropriate component weight in other finishes, multiply the given weight by the below finish factors.
- Finish factor: HDG (ISO En1461) = (HDG):1 / Stainless Steel = (SS) : 0.94

►► H:150 Expansion Splice Plate

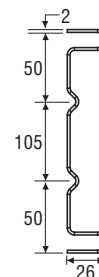
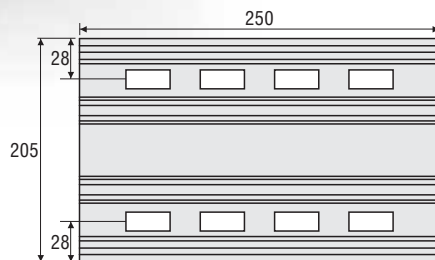
| Description | Weight (kg) | Code |
|----------------------|-------------|---------|
| 150 KCA OG / EXP / Δ | 1,054 | 3070821 |



- 8 Pcs Expansion Bolt Set
 - 1 pc M10x30 Round Head Square Neck Bolt
 - 1 pc M12 Plain Washer
 - 2 pcs M10 Nut

►► H:200 Expansion Splice Plate

| Description | Weight (kg) | Code |
|----------------------|-------------|---------|
| 200 KCA OG / EXP / Δ | 1,269 | 3070822 |



- 8 Pcs Expansion Bolt Set
 - 1 pc M10x30 Round Head Square Neck Bolt
 - 1 pc M12 Plain Washer
 - 2 pcs M10 Nut



- 8 pcs M10X30 Expansion bolt set should be ordered.
- Δ: All products codes and weights given are in kilograms (kg) and are hotdip galvanized (HDG) finish.
- To obtain the appropriate component weight in other finishes, multiply the given weight by the below finish factors.
- Finish factor: HDG (ISO En1461) = (HDG):1 / Stainless Steel = (SS) : 0.94

▶▶ H:100 Horizontal Adjustable Couplers

| Description | Weight | Code (Set) |
|---------------------|--------|------------|
| 100 KCA OG / ME / Δ | 0,800 | 3070794 |



▶▶ H:125 Horizontal Adjustable Couplers

| Description | Weight | Code (Set) |
|---------------------|--------|------------|
| 125 KCA OG / ME / Δ | 0,985 | 3070795 |



▶▶ H:150 Horizontal Adjustable Couplers

| Description | Weight | Code (Set) |
|---------------------|--------|------------|
| 150 KCA OG / ME / Δ | 1,213 | 3070796 |



▶▶ H:200 Horizontal Adjustable Couplers

| Description | Weight | Code (Set) |
|---------------------|--------|------------|
| 200 KCA OG / ME / Δ | 1,651 | 3070797 |



- 8 pcs M10X20 bolt set should be ordered.
- Δ: All products codes and weights given are in kilograms (kg) and are hotdip galvanized (HDG) finish.
- To obtain the appropriate component weight in other finishes, multiply the given weight by the below finish factors.
- Finish factor: HDG (ISO En1461) = (HDG):1 / Stainless Steel = (SS) : 0.94

■ Please indicate order code in your orders.

■ Please contact us for special modules.

■ Material weights may vary by ± 10%

▶▶ H:100 Vertical Adjustable Couplers

| Description | Code (Set) |
|----------------------|------------|
| 100 KCA OG / SDE / Δ | 3070497 |



▶▶ H:125 Vertical Adjustable Couplers

| Description | Code (Set) |
|----------------------|------------|
| 125 KCA OG / SDE / Δ | 3070498 |



▶▶ H:150 Vertical Adjustable Couplers

| Description | Code (Set) |
|----------------------|------------|
| 150 KCA OG / SDE / Δ | 3070499 |



▶▶ H:200 Vertical Adjustable Couplers

| Description | Code (Set) |
|----------------------|------------|
| 200 KCA OG / SDE / Δ | 3070500 |



- 8 pcs M10X20 bolt set should be ordered.
- Δ: All products codes and weights given are in kilograms (kg) and are hotdip galvanized (HDG) finish.
- To obtain the appropriate component weight in other finishes, multiply the given weight by the below finish factors.
- Finish factor: HDG (ISO En1461) = (HDG):1 / Stainless Steel = (SS) : 0.94

■ Please indicate order code in your orders.

■ Please contact us for special modules.

■ Material weights may vary by ± 10%

| Height | Width (mm) | Description | No. of Sections | Weight (kg) | Code |
|--------|------------|--------------------|-----------------|-------------|---------|
| 100 | 150 | ↓ KCA OG150/SDM/Δ | 3 | 5,949 | 3084141 |
| | 200 | ↓ KCA OG200/SDM/Δ | 3 | 6,190 | 3084142 |
| | 300 | ↓ KCA OG300/SDM/Δ | 3 | 6,669 | 3084143 |
| | 450 | ↓ KCA OG450/SDM/Δ | 3 | 7,388 | 3084144 |
| | 600 | ↓ KCA OG600/SDM/Δ | 3 | 8,108 | 3084145 |
| | 750 | ↓ KCA OG750/SDM/Δ | 3 | 8,827 | 3084146 |
| | 900 | ↓ KCA OG900/SDM/Δ | 3 | 9,546 | 3084147 |
| | 1000 | ↓ KCA OG1000/SDM/Δ | 3 | 10,025 | 3084148 |
| | 1100 | ↓ KCA OG1100/SDM/Δ | 3 | 10,923 | 3084149 |
| 125 | 150 | ↓ KCA OG150/SDM/Δ | 3 | 7,646 | 3084150 |
| | 200 | ↓ KCA OG200/SDM/Δ | 3 | 7,887 | 3084151 |
| | 300 | ↓ KCA OG300/SDM/Δ | 3 | 8,365 | 3084152 |
| | 450 | ↓ KCA OG450/SDM/Δ | 3 | 9,084 | 3084153 |
| | 600 | ↓ KCA OG600/SDM/Δ | 3 | 9,804 | 3084154 |
| | 750 | ↓ KCA OG750/SDM/Δ | 3 | 10,523 | 3084155 |
| | 900 | ↓ KCA OG900/SDM/Δ | 3 | 11,243 | 3084156 |
| | 1000 | ↓ KCA OG1000/SDM/Δ | 3 | 11,721 | 3084157 |
| | 1100 | ↓ KCA OG1100/SDM/Δ | 3 | 12,619 | 3084158 |
| 150 | 150 | ↓ KCA OG150/SDM/Δ | 3 | 9,639 | 3084159 |
| | 200 | ↓ KCA OG200/SDM/Δ | 3 | 9,880 | 3084160 |
| | 300 | ↓ KCA OG300/SDM/Δ | 3 | 10,358 | 3084161 |
| | 450 | ↓ KCA OG450/SDM/Δ | 3 | 11,078 | 3084162 |
| | 600 | ↓ KCA OG600/SDM/Δ | 3 | 11,797 | 3084163 |
| | 750 | ↓ KCA OG750/SDM/Δ | 3 | 12,516 | 3084164 |
| | 900 | ↓ KCA OG900/SDM/Δ | 3 | 13,236 | 3084165 |
| | 1000 | ↓ KCA OG1000/SDM/Δ | 3 | 13,714 | 3084166 |
| | 1100 | ↓ KCA OG1100/SDM/Δ | 3 | 14,612 | 3084167 |
| 200 | 200 | ↓ KCA OG200/SDM/Δ | 3 | 14,841 | 3084168 |
| | 300 | ↓ KCA OG300/SDM/Δ | 3 | 15,319 | 3084169 |
| | 450 | ↓ KCA OG450/SDM/Δ | 3 | 16,039 | 3084170 |
| | 600 | ↓ KCA OG600/SDM/Δ | 3 | 16,758 | 3084171 |
| | 750 | ↓ KCA OG750/SDM/Δ | 3 | 17,477 | 3084172 |
| | 900 | ↓ KCA OG900/SDM/Δ | 3 | 18,197 | 3084173 |
| | 1000 | ↓ KCA OG1000/SDM/Δ | 3 | 18,675 | 3084174 |
| | 1100 | ↓ KCA OG1100/SDM/Δ | 3 | 19,573 | 3084175 |



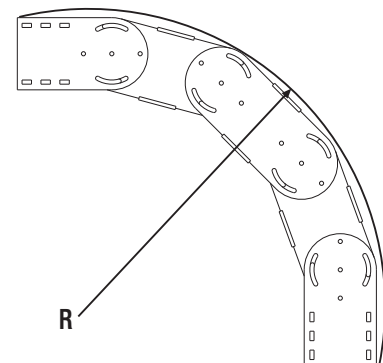
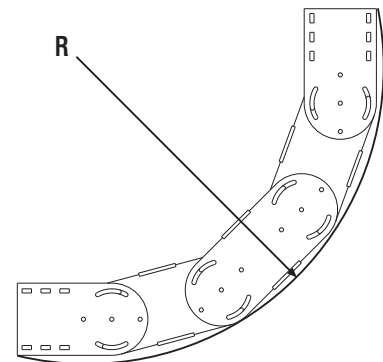
- M10X20 bolt set should be ordered.
- Δ: All products codes and weights given are in kilograms (kg) and are hotdip galvanized (HDG) finish.
- To obtain the appropriate component weight in other finishes, multiply the given weight by the below finish factors.
- Finish factor: HDG (ISO En1461) = (HDG):1 / Stainless Steel = (SS) : 0.94

■ Please indicate order code in your orders.

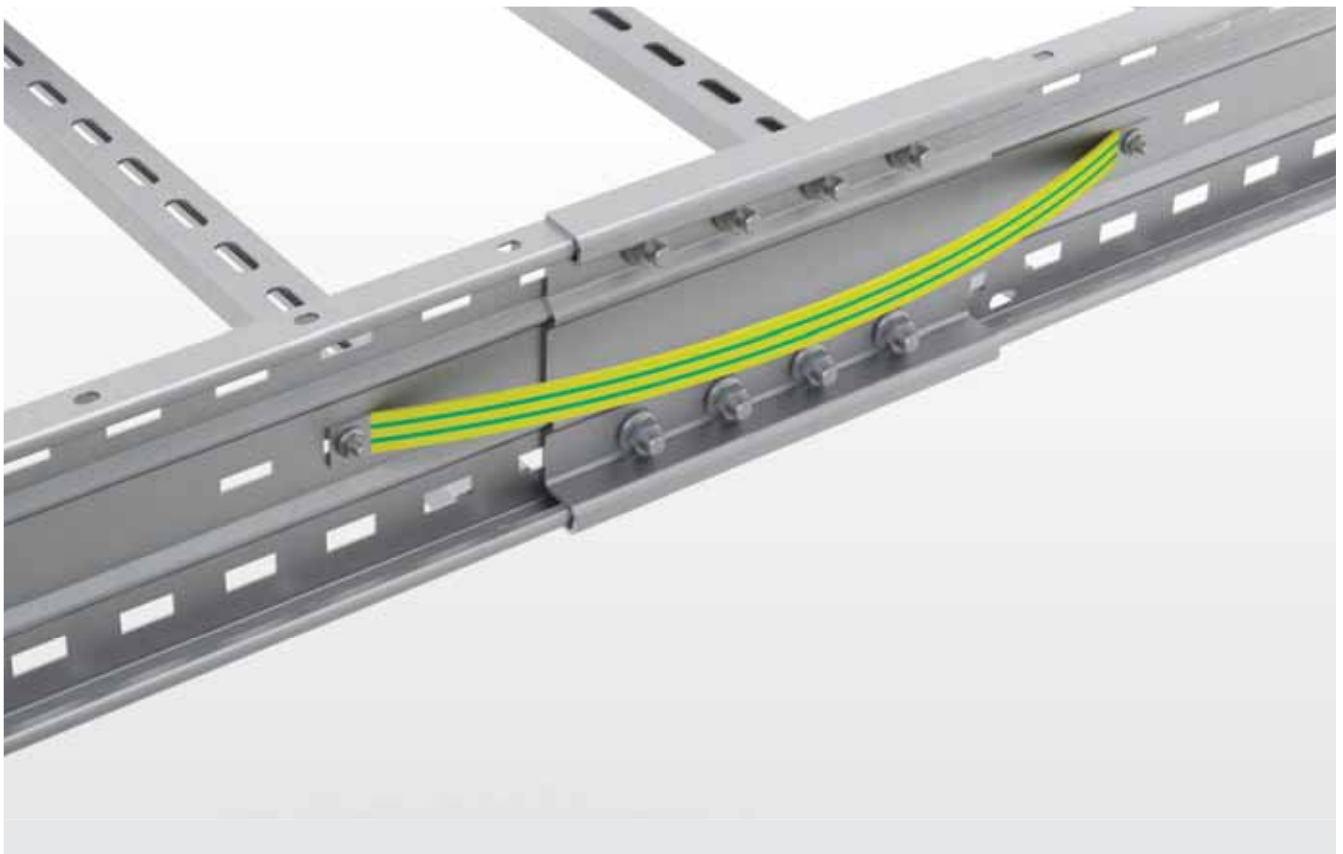
■ Please contact us for special modules.

■ Material weights may vary by ± 10%

| Description | Angle | No. of Sections | Radious (mm) | |
|-------------------------|-------|-----------------|--------------|---------|
| | | | Inside | Outside |
| ↓KCA OG ↔ / SDM / Δ / 1 | 30 | 1 | 1096 | 1196 |
| ↓KCA OG ↔ / SDM / Δ / 2 | 30 | 2 | 1478 | 1578 |
| ↓KCA OG ↔ / SDM / Δ / 3 | 30 | 3 | 1862 | 1962 |
| ↓KCA OG ↔ / SDM / Δ / 1 | 45 | 1 | 714 | 814 |
| ↓KCA OG ↔ / SDM / Δ / 2 | 45 | 2 | 969 | 1069 |
| ↓KCA OG ↔ / SDM / Δ / 3 | 45 | 3 | 1227 | 1327 |
| ↓KCA OG ↔ / SDM / Δ / 4 | 45 | 4 | 1482 | 1582 |
| ↓KCA OG ↔ / SDM / Δ / 1 | 60 | 1 | 523 | 623 |
| ↓KCA OG ↔ / SDM / Δ / 2 | 60 | 2 | 714 | 814 |
| ↓KCA OG ↔ / SDM / Δ / 3 | 60 | 3 | 910 | 1010 |
| ↓KCA OG ↔ / SDM / Δ / 4 | 60 | 4 | 1101 | 1201 |
| ↓KCA OG ↔ / SDM / Δ / 5 | 60 | 5 | 1315 | 1415 |
| ↓KCA OG ↔ / SDM / Δ / 6 | 60 | 6 | 1510 | 1610 |
| ↓KCA OG ↔ / SDM / Δ / 1 | 90 | 1 | 333 | 433 |
| ↓KCA OG ↔ / SDM / Δ / 2 | 90 | 2 | 460 | 560 |
| ↓KCA OG ↔ / SDM / Δ / 3 | 90 | 3 | 595 | 695 |
| ↓KCA OG ↔ / SDM / Δ / 4 | 90 | 4 | 722 | 822 |
| ↓KCA OG ↔ / SDM / Δ / 5 | 90 | 5 | 864 | 964 |
| ↓KCA OG ↔ / SDM / Δ / 6 | 90 | 6 | 997 | 1097 |
| ↓KCA OG ↔ / SDM / Δ / 7 | 90 | 7 | 1107 | 1207 |
| ↓KCA OG ↔ / SDM / Δ / 8 | 90 | 8 | 1235 | 1335 |



| Description | Code | Length | Cross-Section |
|----------------|---------|--------|--------------------|
| Bonding Jumper | 1020286 | 500 mm | 35 mm ² |



- 2 pcs M6X20 set should be ordered.
- Δ: All products codes and weights given are in kilograms (kg) and are hotdip galvanized (HDG) finish.
- To obtain the appropriate component weight in other finishes, multiply the given weight by the below finish factors.
- Finish factor: HDG (ISO En1461) = (HDG):1 / Stainless Steel = (SS) : 0.94

■ Please indicate order code in your orders.

■ Please contact us for special modules.

■ Material weights may vary by ± 10%

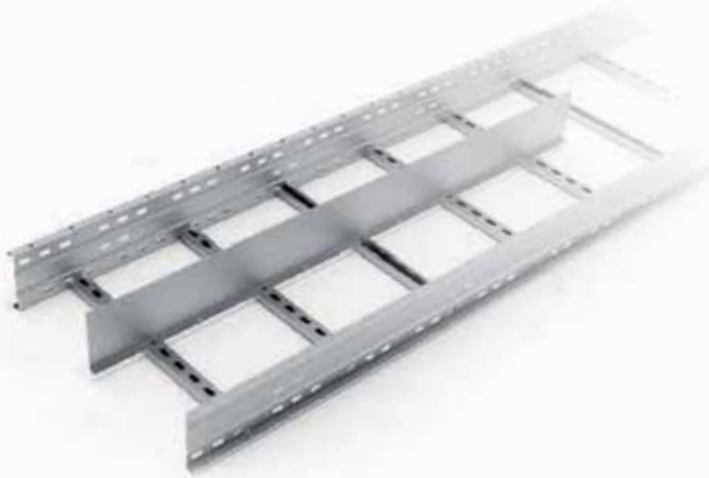
►► Straight Ladder Divider

| Description | Code | L (mm) | H (mm) | F (mm) |
|---------------------------|---------|--------|--------|--------|
| 100 KCA OG / SPR / L3 / Δ | 3070840 | 1500 | 60 | 20 |
| 125 KCA OG / SPR / L3 / Δ | 3070841 | 1500 | 85 | 20 |
| 150 KCA OG / SPR / L3 / Δ | 3070842 | 1500 | 110 | 20 |
| 200 KCA OG / SPR / L3 / Δ | 3070843 | 1500 | 160 | 20 |

Hot Dip Galvanized are manufactured out of 1.2 mm Gauge Material



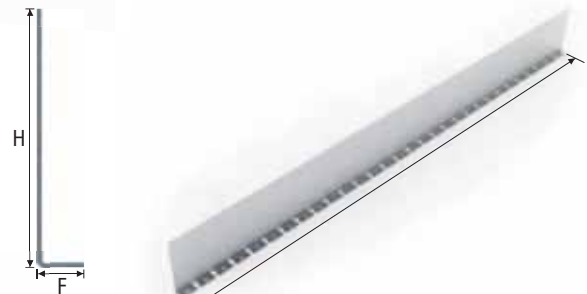
M8X20 pan head bolt c/w short spring channel nut and flat washer. Should be order in each 1 mt.



►► Fitting Divider

| Description | Code | L (mm) | H (mm) | F (mm) |
|-----------------------|---------|--------|--------|--------|
| 100 KCA OG / YSPR / Δ | 3070844 | 1500 | 60 | 20 |
| 125 KCA OG / YSPR / Δ | 3070845 | 1500 | 85 | 20 |
| 150 KCA OG / YSPR / Δ | 3070846 | 1500 | 110 | 20 |
| 200 KCA OG / YSPR / Δ | 3070847 | 1500 | 160 | 20 |

Hot Dip Galvanized are manufactured out of 1.2 mm Gauge Material



M8X20 pan head bolt c/w short spring channel nut and flat washer.



- Δ: All products codes and weights given are in kilograms (kg) and are hotdip galvanized (HDG) finish.
- To obtain the appropriate component weight in other finishes, multiply the given weight by the below finish factors.
- Finish factor: HDG (ISO En1461) = (HDG):1 / Stainless Steel = (SS) : 0.94

■ Please indicate order code in your orders.

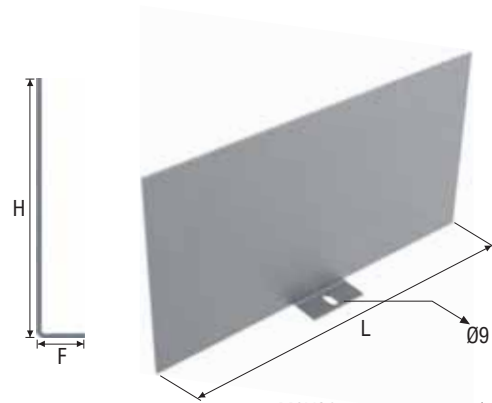
■ Please contact us for special modules.

■ Material weights may vary by ± 10%

►► Riser Divider

| Description | Code | L (mm) | H (mm) | F (mm) |
|-----------------------|---------|--------|--------|--------|
| 100 KCA OG / DSPR / Δ | 3070848 | 300 | 60 | 20 |
| 125 KCA OG / DSPR / Δ | 3070849 | 300 | 85 | 20 |
| 150 KCA OG / DSPR / Δ | 3070850 | 300 | 110 | 20 |
| 200 KCA OG / DSPR / Δ | 3070851 | 300 | 160 | 20 |

Hot Dip Galvanized are manufactured out of 1.2 mm Gauge Material



M8X20 pan head bolt c/w short spring channel nut and flat washer. Should be ordered per pc.



- Δ: All products codes and weights given are in kilograms (kg) and are hotdip galvanized (HDG) finish.
- To obtain the appropriate component weight in other finishes, multiply the given weight by the below finish factors.
- Finish factor: HDG (ISO En1461) = (HDG):1 / Stainless Steel = (SS) : 0.94

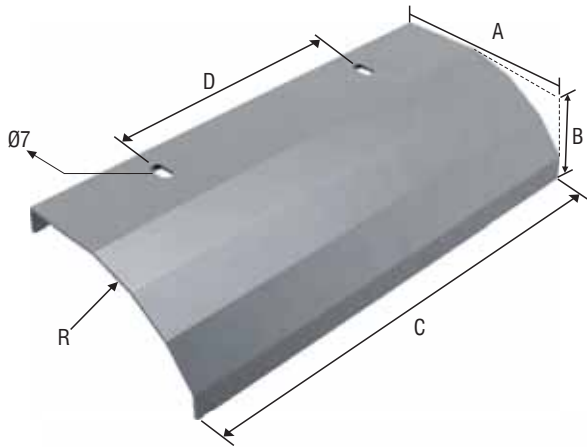
■ Please indicate order code in your orders.

■ Please contact us for special modules.

■ Material weights may vary by ± 10%

►► Cable Drop Out

| Description | Code | A (mm) | B (mm) | C (mm) | D (mm) | R |
|-------------------------|---------|--------|--------|--------|--------|----|
| KCA OG / DRP / 150 / Δ | 3070831 | 120 | 60 | 130 | 50 | 95 |
| KCA OG / DRP / 200 / Δ | 3070832 | 120 | 60 | 180 | 100 | 95 |
| KCA OG / DRP / 300 / Δ | 3070833 | 120 | 60 | 280 | 150 | 95 |
| KCA OG / DRP / 450 / Δ | 3070834 | 120 | 60 | 430 | 300 | 95 |
| KCA OG / DRP / 600 / Δ | 3070835 | 120 | 60 | 580 | 450 | 95 |
| KCA OG / DRP / 750 / Δ | 3070836 | 120 | 60 | 730 | 600 | 95 |
| KCA OG / DRP / 900 / Δ | 3070837 | 120 | 60 | 880 | 750 | 95 |
| KCA OG / DRP / 1000 / Δ | 3070838 | 120 | 60 | 980 | 850 | 95 |
| KCA OG / DRP / 1100 / Δ | 3070839 | 120 | 60 | 1080 | 950 | 95 |



- 2 Pcs M10X20 bolt set should be ordered.
- Δ: All products codes and weights given are in kilograms (kg) and are hotdip galvanized (HDG) finish.
- To obtain the appropriate component weight in other finishes, multiply the given weight by the below finish factors.
- Finish factor: HDG (ISO En1461) = (HDG):1 / Stainless Steel = (SS) : 0.94

■ Please indicate order code in your orders.

■ Please contact us for special modules.

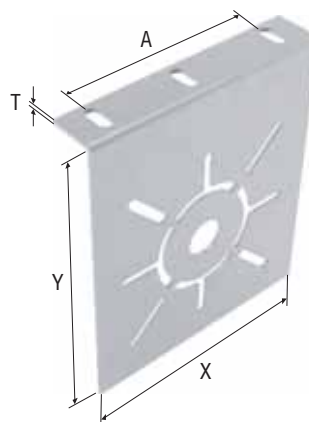
■ Material weights may vary by ± 10%

►► Junction Box Plates

| Description | Code | X (mm) | Y (mm) | A (mm) | T (mm) |
|------------------|---------|--------|--------|--------|--------|
| KCA OG / PM1 / Δ | 3070852 | 130 | 150 | 100 | 2 |

Recommended Fixing

For attachment to Speedway cable ladder - M6x12 Pan head screw and M6 nut (&M6 Flat Washer for stainless steel). Consult our sales Team for further details.

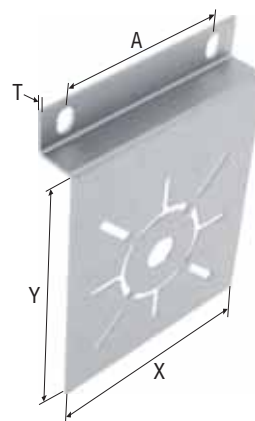


►► Tube Clamp Plates

| Description | Code | X (mm) | Y (mm) | A (mm) | T (mm) |
|------------------|---------|--------|--------|--------|--------|
| KCA OG / PM2 / Δ | 3097025 | 130 | 150 | 100 | 2 |

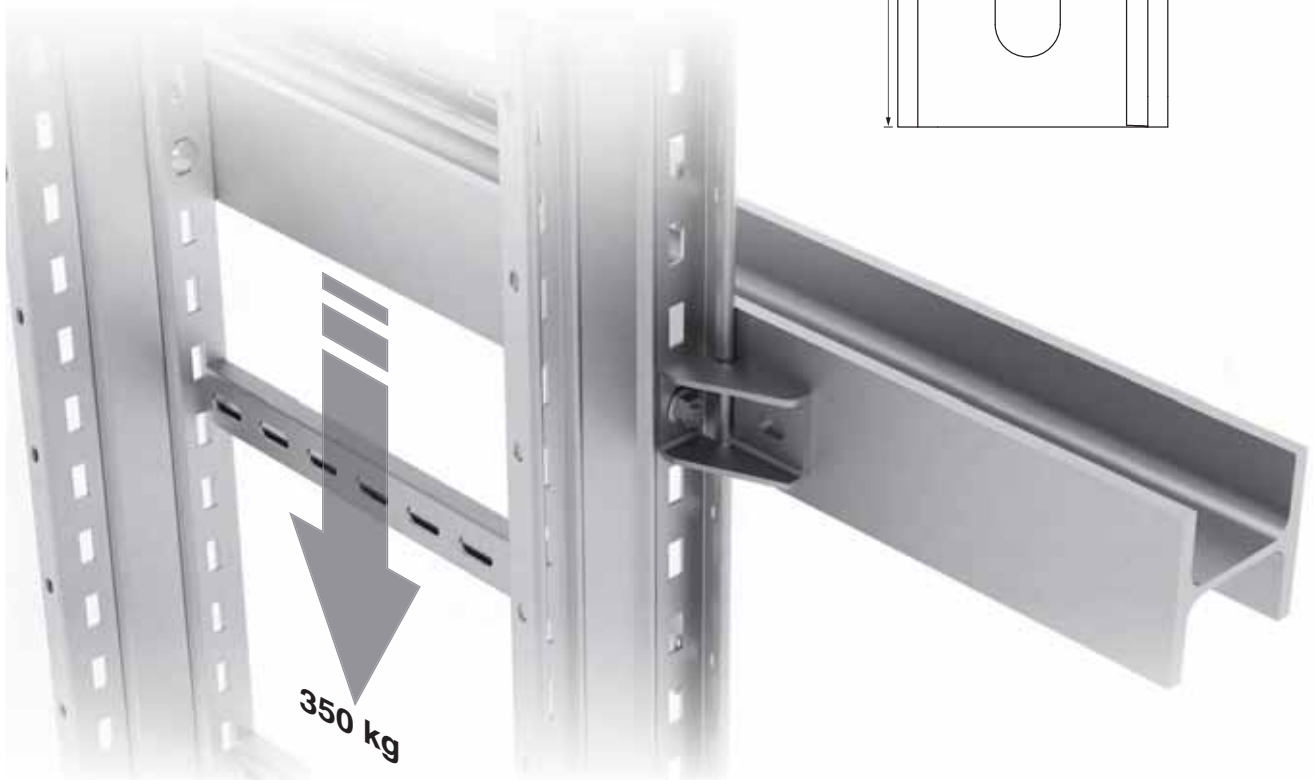
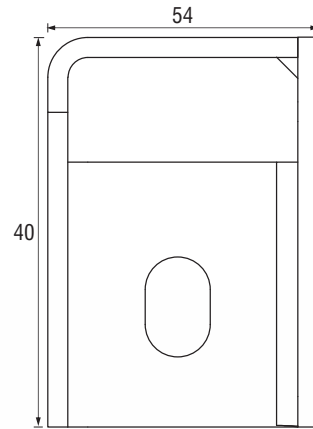
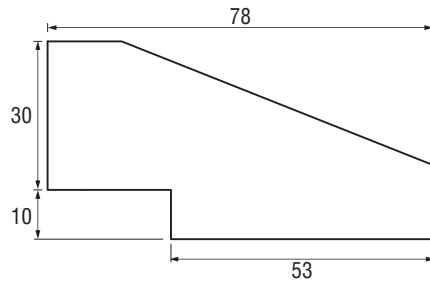
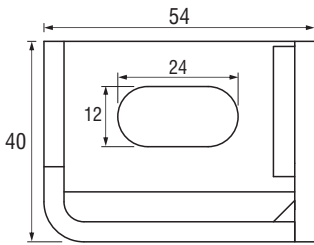
Recommended Fixing

For attachment to Speedway cable ladder - M10x20 Pan head screw and M10 nut (&M10 Flat Washer for stainless steel). Consult our sales Team for further details.



| Description | Code | Weight (kg) |
|-------------------|---------|-------------|
| KCAOG SE1 BRACKET | 3106213 | 0,330 |

■ For vertical application! Tested to 350 kg



- 1 pcs M10X20 set should be ordered.
- Δ: All products codes and weights given are in kilograms (kg) and are hotdip galvanized (HDG) finish.
- To obtain the appropriate component weight in other finishes, multiply the given weight by the below finish factors.
- Finish factor: HDG (ISO En1461) = (HDG):1 / Stainless Steel = (SS) : 0.94

■ Please indicate order code in your orders.

■ Please contact us for special modules.

■ Material weights may vary by ± 10%

| Description | Code | Weight (kg/pcs) |
|-------------------|---------|-----------------|
| KCAOG STK BRACKET | 2000271 | 0,073 |



Application2: I-Beam

- 1 pcs M10x30 bolt
- 1pcs M10 washer
- 1pcs M10 nut



Application1: STRUT

- 1 pcs M10x30 bolt
- 1pcs M10 washer
- 1pcs M10 spring nut

- Δ: All products codes and weights given are in kilograms (kg) and are hotdip galvanized (HDG) finish.
- To obtain the appropriate component weight in other finishes, multiply the given weight by the below finish factors.
- Finish factor: HDG (ISO En1461) = (HDG):1 / Stainless Steel = (SS) : 0.94

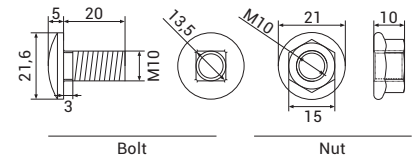
■ Please indicate order code in your orders.

■ Please contact us for special modules.

■ Material weights may vary by ± 10%

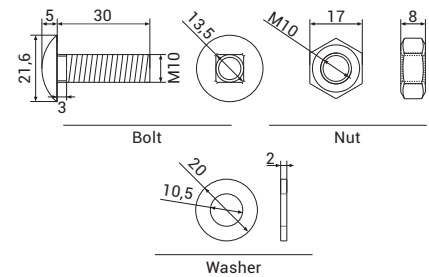
▶ **JOINT BOLT SET (M10x20)**

| Description | Code |
|-----------------------------|---------|
| M10x20 JOINT BOLT SET (ELC) | 1008164 |
| M10x20 JOINT BOLT SET (A4) | 1015751 |
| M10x20 JOINT BOLT SET (A2) | 1015752 |



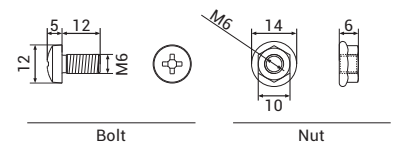
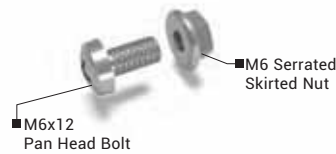
▶ **EXPANSION BOLT SET (M10x30)**

| Description | Code |
|---------------------------------|---------|
| M10x30 EXPANSION BOLT SET (ELC) | 1015780 |
| M10x30 EXPANSION BOLT SET (A4) | 1015781 |
| M10x30 EXPANSION BOLT SET (A2) | 1015753 |



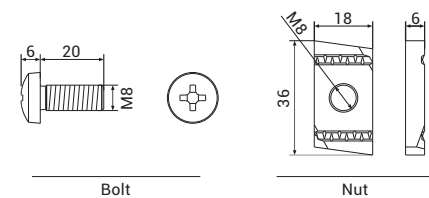
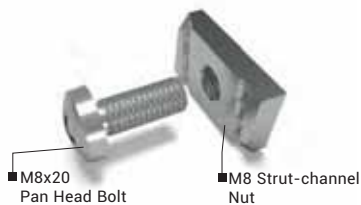
▶ **COVER FIXING BOLT SET (M6x12)**

| Description | Code |
|-----------------------------------|---------|
| M6x12 COVER FIXING BOLT SET (ELC) | 1008166 |
| M6x12 COVER FIXING BOLT SET (A4) | 1015754 |
| M6x12 COVER FIXING BOLT SET (A2) | 1015755 |



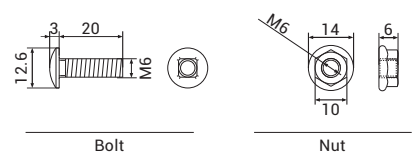
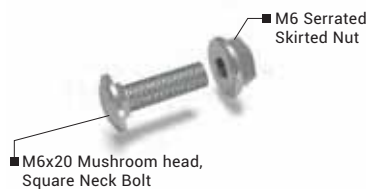
▶ **SEPARATOR FIXING BOLT SET (M8x20)**

| Description | Code |
|----------------------------------|---------|
| M8x20 SEP. FIXING BOLT SET (ELC) | 1015756 |
| M8x20 SEP. FIXING BOLT SET (A4) | 1015757 |
| M8x20 SEP. FIXING BOLT SET (A2) | 1015758 |



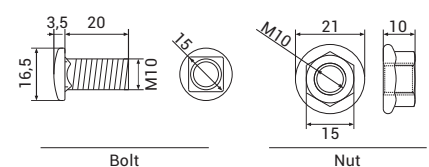
▶ **BONDINGJUMPER FIXING BOLT SET (M6x20)**

| Description | Code |
|---|---------|
| M6x20 BONDING JUMPER FIX. BOLT SET (ELC.) | 1002984 |
| M6x20 BONDING JUMPER FIX. BOLT SET (A4) | 1020350 |
| M6x20 BONDING JUMPER FIX. BOLT SET (A2) | 1000923 |



▶ **VERTICLE ADJUSTABLE COUPLERS BOLT SET (M10x20)**

| Description | Code |
|---|---------|
| M10x20 VERTICLE ADJ. COUP. FIX. BOLT SET (ELC.) | 1027697 |
| M10x20 VERTICLE ADJ. COUP. FIX. BOLT SET (A2) | 1027695 |
| M10x20 VERTICLE ADJ. COUP. FIX. BOLT SET (A4) | 1027698 |



INSTALLATION RECOMMENDATIONS

Loads:

A correctly designed and specified cable ladder installation should take into account the nature and extent of the loads which will be imposed on the cable ladder system. These loads comprise of dead loads including the selfweight of the cable ladder system, the weight of the cables and secondary equipment attached to the cable ladder, imposed loads which occur during installation of the cable ladder system and during cable pulling operations, and external loads such as wind, snow, & ice.

Cable ladders are often employed in locations where the wind speeds may cause considerable lateral loading and careful consideration must be given to design to ensure a satisfactory installation. An awareness of the worst possible climate conditions is necessary when specifying the correct cable ladder system.

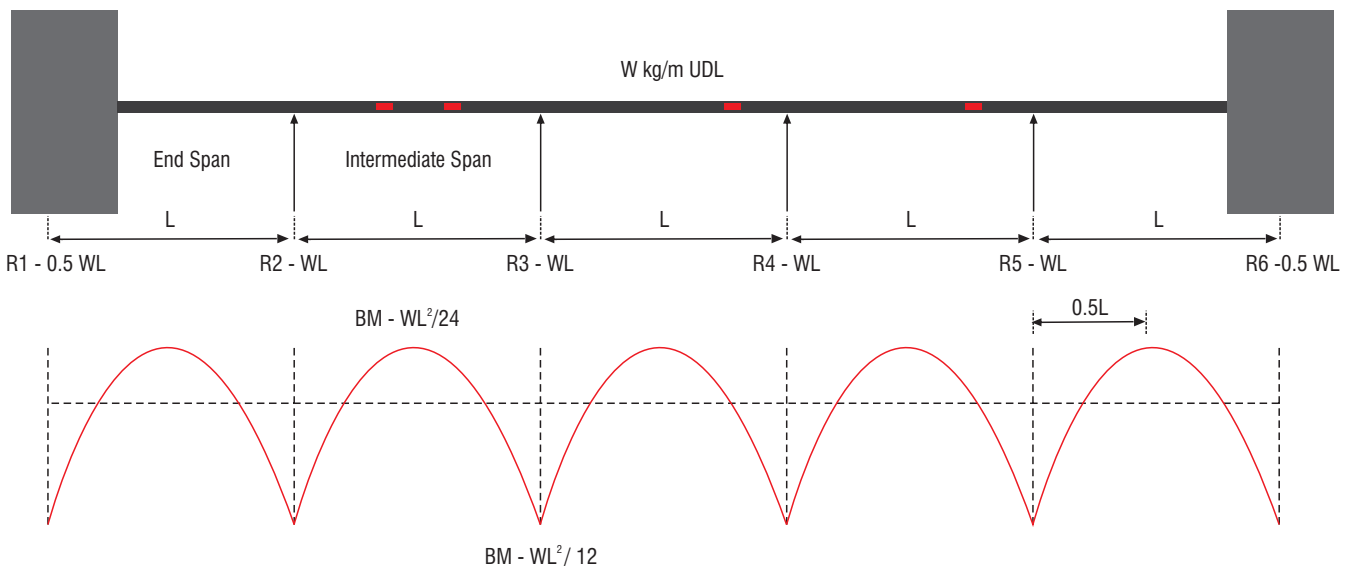
The load-deflection information is based on static loading of the cable ladder installation and does not take into account dynamic effects such as earthquake loading, etc. In designing a cable ladder installation it is good practice to allow at least a 20% excess capacity in a new installation for future expansion. Such a provision is of great economic advantage when there is a later need for additional cables.

Support Spacing:

The space between the supports of a cable ladder installation is referred to as the span. Supports for cable ladder should, as far as practicable, be spaced so as to create the most economical load/span ratio to suit the capacity of the cable ladder system. This will give the most advantageous solution when considering procurement and installation costs. As a general rule of thumb, the load-carrying capability of the Cable Ladder system increases as the span decreases, so a lighter duty cable ladder system can be specified for shorter spans. Conversely, a heavier duty Cable Ladder system will need to be specified for longer spans. When considering support positions it should be remembered that it is necessary to support accessories when a change of direction takes place i.e. bends, tees, risers etc. This is to ensure that undue 'corner' cantilever reaction is minimised. Recommendations for the location of supports for Cable Ladder fittings are given in below.

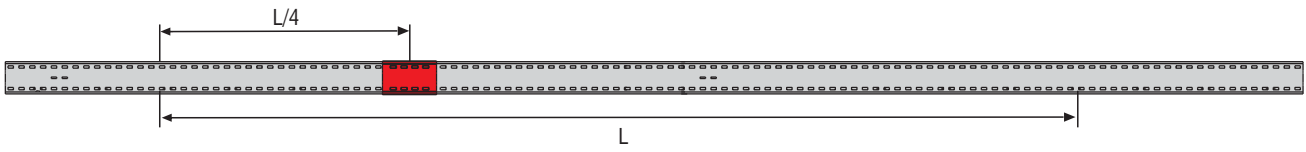
Location of Couplers:

The maximum bending moments acting on a cable ladder run occur in the cable ladder side members at the supports and at the mid span position. For this reason it is good practice to avoid locating couplers in a cable ladder run either directly on supports or at the mid span position. It is also good practice to avoid locating couplers in the end span of a continuous beam installation as the bending moments in the end span are, for simple end support installations, much higher than those found in the intermediate spans. These limitations cannot always be achieved in a cable ladder installation and are not a mandatory requirement for the coupling system where the loading information given in 3.3 is valid irrespective of the location of the couplers. The ideal positions to locate the connections in a cable ladder run are at approximately a quarter of a span from the supports where the bending moment, and hence the stress, are minimal. Positioning the couplers at the quarter span positions is of benefit during installation, assisting in alignment of the cable ladders and allowing unhindered securing of the cable ladder to the supports.



Bending Movement distribution for a continuous beam with fixed ends
 (The Bending Movement for ends spans in a continuous beam with simple end supports
 will be higher than that shown)

L= Span
 W=Load
 UDL= Uniformly
 Distributed Load
 R= Reaction at Support
 BM= Bending Movement



Location of coupler at points of least bending movement (1/4 SPAN)

Support Locations for Fittings:

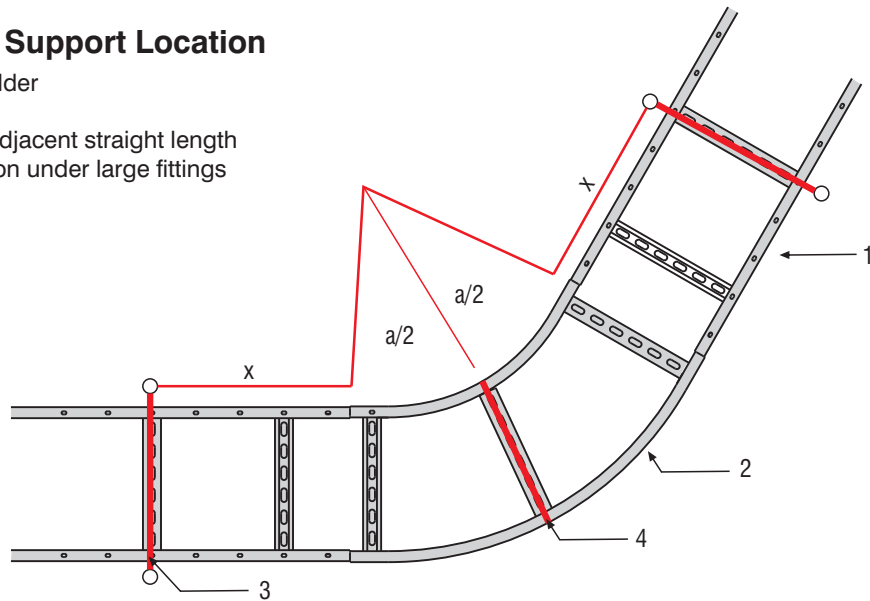
The following illustrations show the recommended support positions when installing cable ladder fittings. The supports should be fully fixed to provide maximum support for the cable ladder fitting. For more specific recommendations relating to particular site installations please contact EAE.

Horizontal Elbow' s Support Location

- 1- Straight length tray or ladder
- 2- Fitting of tray or ladder
- 3- Support position under adjacent straight length
- 4- Additional support position under large fittings

$x < 600\text{mm}$

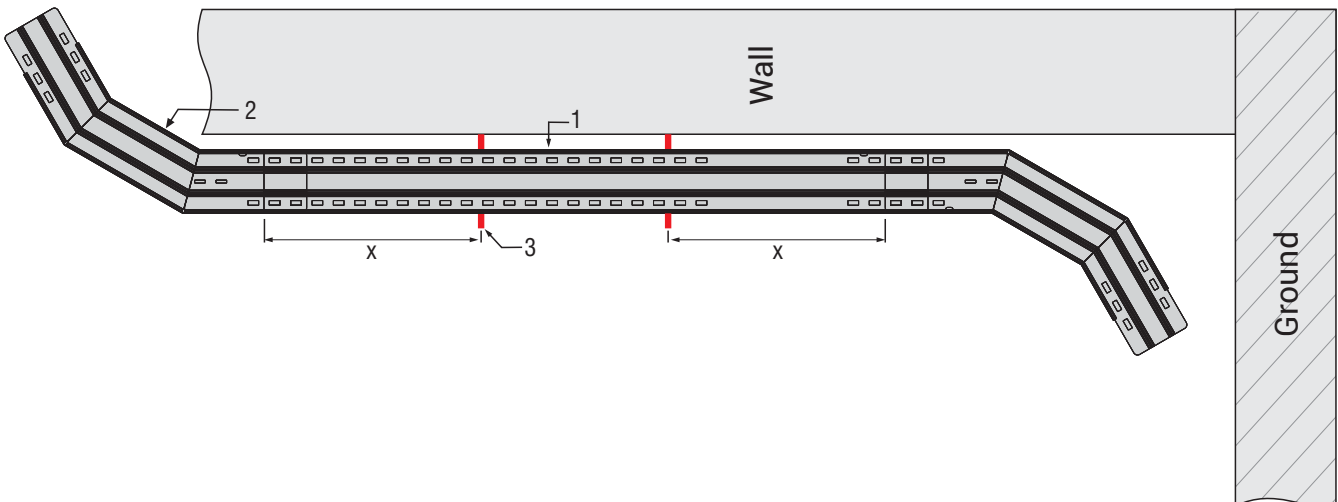
a: Fitting Turning Angle



Vertical Elbow' s Support Location

- 1- Straight length tray or ladder
- 2- Fitting of tray or ladder
- 3- Support position under adjacent straight length

$x < 600\text{mm}$

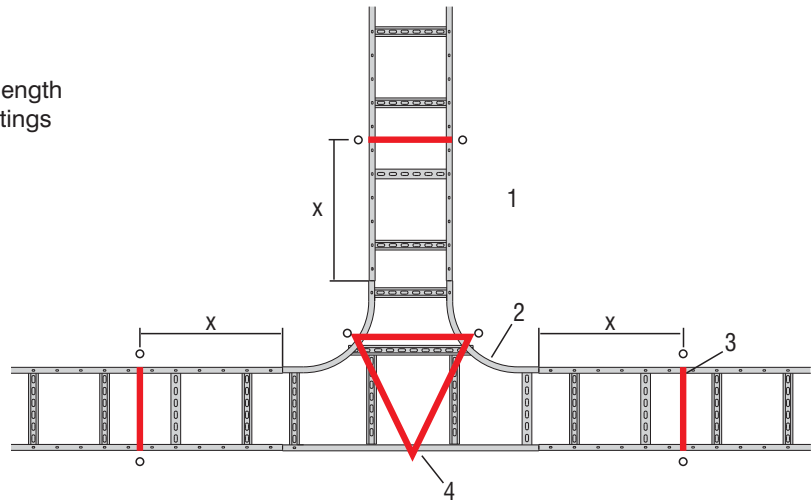


Horizontal Tee' s Support Location

- 1- Straight length tray or ladder
- 2- Fitting of tray or ladder
- 3- Support position under adjacent straight length
- 4- Additional support position under large fittings

Radius $< 300\text{mm}$ → $x < 300\text{mm}$
 No need for 4

Radius $> 300\text{mm}$ → $x < 600\text{mm}$
 + Triangle Support 4 recommended

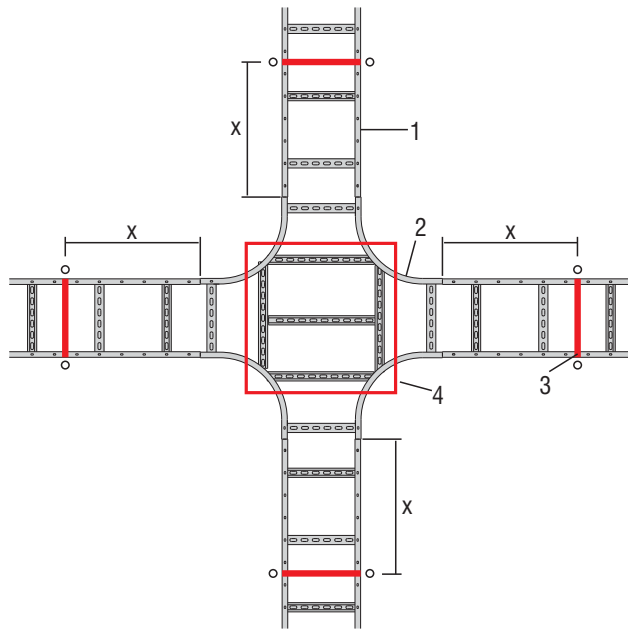


Horizontal Tee' s Support Location

- 1- Straight length tray or ladder
- 2- Fitting of tray or ladder
- 3- Support position under adjacent straight length
- 4- Additional support position under large fittings

Radius $< 300\text{mm}$ → $x < 300\text{mm}$
 No need for 4

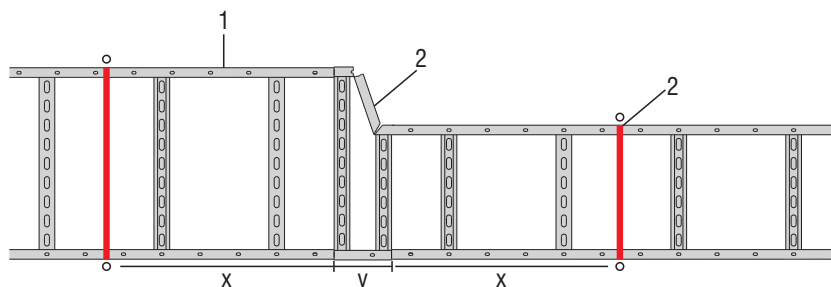
Radius $> 300\text{mm}$ → $x < 600\text{mm}$
 + Square Support 4 recommended



Horizontal Reduction' s Support Location

- 1- Straight length tray or ladder
- 2- Fitting of tray or ladder
- 3- Support position under adjacent straight length

$y \leq 500\text{mm}$ → $x \leq 600\text{mm}$



Thermal Expansion & Contraction

Due to the seasonal temperature changes, it is important to consider thermal contraction and expansion during design and installation phase of cable tray/ladder systems. The length of the straight cable ladder run, type of material and the seasonal temperature differential determine the number of expansion splice plates required.

Following steps should be applied during design and installation when considering thermal movements:

1. Determination of maximum spacing between two expansion joints

The distance between expansion splice plates should be calculated either by given table below or the following formula under the table:

| TEMPERATURE DIFFERENTIAL (between hottest and coldest day in a season) | MAXIMUM SPACING BETWEEN EXPANSION SPLICE PLATES (L) | | | |
|---|---|-----------------|------|----------|
| | Hot Dip Galvanized Carbon Steel | Stainless Steel | | Aluminum |
| | | 316 | 304 | |
| ΔT | | | | |
| °C | m | m | m | m |
| 10 | 217 | 161 | 148 | 115 |
| 20 | 108,5 | 80,5 | 74 | 57,5 |
| 30 | 72 | 53,5 | 49 | 38,5 |
| 40 | 54 | 40 | 37 | 29 |
| 50 | 43,5 | 32 | 29,5 | 23 |
| 60 | 36 | 27 | 24,5 | 19 |
| 70 | 31 | 23 | 21 | 16,5 |
| 80 | 27 | 20 | 18,5 | 14 |
| 90 | 24 | 18 | 16,5 | 13 |
| 100 | 22 | 16 | 15 | 11,5 |

Method 2: Determination by formula

$$L = \frac{C}{\Delta T}$$

L = Distance between two expansion splice plates (m)

ΔT= Temperature difference between the seasonal maximum temperature (Tmax) and minimum temperature (Tmin) at the installation site.

C = Coefficient

C = 2170 for hot dip galvanized steel

C = 1607 for 316 stainless steel

C = 1476 for 304 stainless steel

C = 1149 for Aluminum

For an example:

Maximum temperature = +40 °C

Minimum temperature = -10 °C

Temperature differential (ΔT) = 50 °C

With using table, for the 50 °C temperature differential, based on the Hot Dip Galvanized Carbon Steel, expansion splice plates should be fitted at maximum every 43,5m which means that every 7th 6m cable ladder expansion splice plates (giving 42m spacing) should be fitted.

With using formula, $L = C / \Delta T = 2170 / 50 = 43,4m$

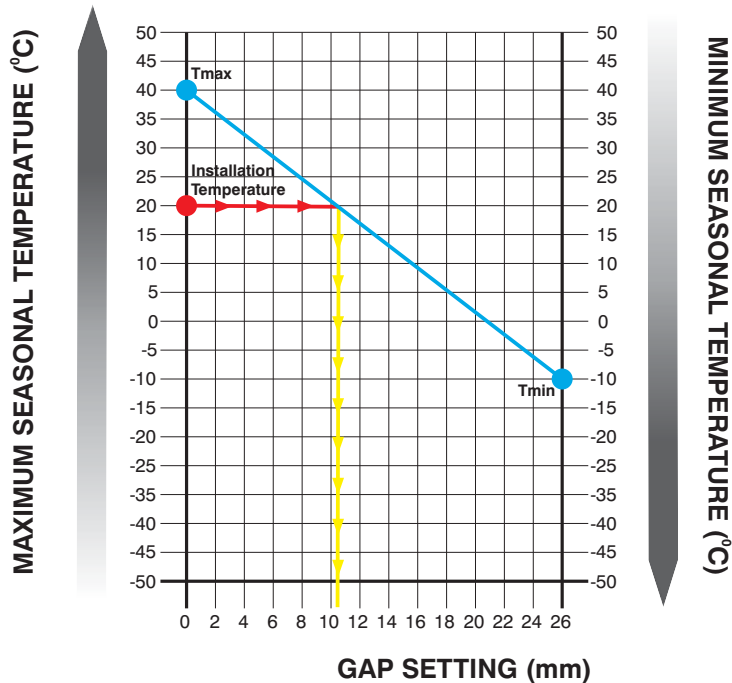
2. Setting Gap

Accurate gap setting at the moment of installation is necessary for proper operation of the expansion splice plates. The gap can be set according to either by given graph below or formula under the graph;

Method 1: Determination gap setting by table

Follow the below steps in order to set accurate gap setting;

- Plot the maximum expected temperature on the maximum temperature.
(Example Value: +40 °C) upper left blue dot
- Plot the minimum expected temperature on the minimum temperature.
(Example Value: -10 °C) lower right blue dot
- Draw a line between the maximum and minimum points. blue line
- Plot the temperature at the moment of installation to determine the gap setting (Example Value: 20 °C),
E) Follow horizontal red line and continue with vertical yellow line.
Example value: 10,1mm



Method 2: Determination gap setting by formula

Follow the below steps in order to set accurate gap setting;

$$S = 25,4\text{mm} \frac{T_{\max} - T}{T_{\max} - T_{\min}}$$

- T_{max} = Maximum temperature in a season
- T_{min} = Minimum temperature in a season
- T = Temperature at installation moment
- 25,4 is the maximum allowed gap (mm)
- S = Required gap (mm)

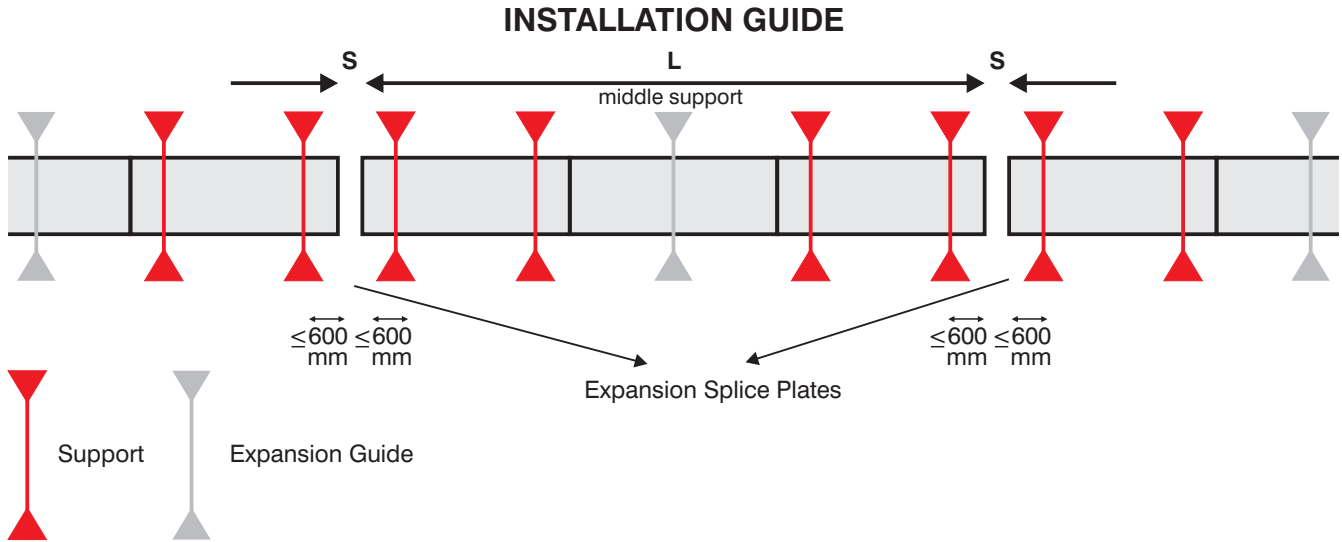
For an example:

Maximum temperature = +40 °C
Minimum temperature = -10 °C
Temperature at installation moment = 20 °C

$$S = 25,4\text{mm} \frac{T_{\max} - T}{T_{\max} - T_{\min}} = 25,4 \times \frac{40 - 20}{40 - (-10)} = 25,4 \times \frac{20}{50} = 10,1 \text{ mm}$$

3. Support Installation

Supports should be located within 600 mm of each side of the expansion splice plates. The support in the middle of two expansion and guide supports close to expansion splice plates should allow ladder to slide during thermal movements. Special hardware such as hold down clamp and plastic stop nut is supplied with expansion splice plates. The nuts may have a stopping device (plastic stop nut). Important: For plastic stop nut designs, tighten hardware, then loosen 1/2 turn. EAE Cable Ladders are capable of carrying loads in between two supports close to expansion splice plates. Consult our Technical Office for details about the installation requirements of expansion splice plates.



NOTE: Each pair of metal cable tray expansion joints require bonding jumper application for electrical continuity.

NEMA CLASS DESIGNATIONS

According to NEMA VE-1, standard class of cable ladders are classified according to load capacities associated with the support spacing as shown on “Table 1 Span/Load Class Designation-U.S.A” which is most commonly used.

**NEMA VE-1 2017 Table 1:
 SPAN/LOAD CLASS DESIGNATION - USA**

| Load, kg/m (lb./ft.) | Span, m (ft.) | | | | |
|-------------------------|---------------|---------|----------|----------|----------|
| | 1.5 (5) | 2.4 (8) | 3.0 (10) | 3.7 (12) | 6.0 (20) |
| 37 (25) | 5AA | 8AA | 10AA | 12AA | 20AA |
| 74 (50) | 5A | 8A | 10A | 12A | 20A |
| 112 (75) | - | 8B | - | 12B | 20B |
| 149 (100) | - | 8C | - | 12C | 20C |

**NEMA VE-1 2017 Table 2:
 SPAN/LOAD CLASS DESIGNATION - CANADA**

| Load, kg/m (lb./ft.) | Span, m (ft.) | | | | | | |
|-------------------------|---------------|-----|-----|---------|-----|-----|---------|
| | 1.5 (5) | 2.0 | 2.5 | 3.0(10) | 4.0 | 5.0 | 6.0(20) |
| 37 (25) | | | | A | | | |
| 45 (30) | | | A | | | | |
| 62 (42) | | A | | | | | |
| 67 (45) | | | | | | | D |
| 82 (55) | | | | | | D | |
| 97 (65) | | | | C | | | |
| 99 (67) | A | | | | | | |
| 112 (75) | | | | | | | E |
| 113 (76) | | | | | D | | |
| 119 (80) | | | C | | | | |
| 137 (92) | | | | | | E | |
| 164 (110) | | C | | | | | |
| 179 (120) | | | | D | | | |
| 189 (127) | | | | | E | | |
| 259 (174) | C | | | | | | |
| 299 (200) | | | | E | | | |

Corrosion Categories As Per DIN EN ISO 12944

| Corrosion Category | Typical Indoor Ambient | Typical Outdoor Ambient | Corrosion Load | Average Zinc Layer | Suitable Coating Type |
|--------------------|---|---|------------------|--------------------|--|
| C1 | Buildings with fresh air and air conditioning such as Offices, Department Stores, Schools, Hotels | - | Very Low | <0,1 µm/year | TS EN 10346 TS EN 10143 PREGALVANIZE |
| C2 | Unheated building where condensation may happen, for example: Warehouses, fitness centres | Environments where less pollution exists. | Low | 0,1 - 0,7 µm/year | TS EN 10346 TS EN 10143 PREGALVANIZE |
| C3 | Environments where high humidity levels and partial air pollution exist | Metropolitan and industrial environments, moderately polluted areas due to sulphur dioxide, sea-side resorts with low salt concentration. | Mild | 0,7 - 2,1µm/years | TS EN ISO 1461 HOT-DIP |
| C4 | Chemical facilities, swimming pools, facilities over the sea. | Industrial zones and zones with low salt concentration | Strong | 2,1 - 4,2µm/years | TS EN ISO 1461 HOT-DIP |
| C5 | Buildings or zones where continuous condensation and strong pollution is possible. | Industrial zones where high humidity and an aggressive environment is possible | Very Strong | 4,2 - 8,4µm/years | Duplex (Hot-Dip+ Electrostatic Powder Paint Coating) or 316L-Stainless |
| C6 | Buildings or zones where continuous condensation occurs and strong pollution is probable. | Sea shores with a high salt concentration or open sea environments. | Extremely Strong | >4,2 - 8,4µm/years | Duplex (Hot-Dip+ Electrostatic Powder Paint Coating) or 316L-Stainless |

Chemical Corrosion Protection

| Chemical | Galvanised | Aluminium | 304 | 316 | Plastic |
|-------------------------|------------|-----------|-----|-----|---------|
| Benzene | N/A | R | R | R | NR |
| Carbon Tetrachloride | N/A | C | R | R | C |
| Gasoline | R | R | R | R | C |
| Hydrochloric Acid 40% | NR | NR | NR | NR | C |
| Hydrochloric Acid 10% | NR | NR | NR | NR | R |
| Hydrochloric Acid 2% | NR | NR | NR | NR | R |
| Hydrogen Peroxide 30% | N/A | R | R | R | C |
| Hydrogen Peroxide 3% | N/A | R | R | R | C |
| Hydrogen Sulphide (Gas) | N/A | R | C | R | R |
| Mineral Spirits | N/A | R | N/A | N/A | NR |
| Motor Oil | R | R | R | R | R |
| Nitric Acid | N/A | C | R | R | C |
| Phosphoric Acid 2% | NR | C | R | R | R |
| Sodium Chloride 25% | C | C | R | R | R |
| Sulphuric Acid 2% | NR | C | NR | R | R |
| Water: Deionised | C | R | R | R | R |
| Water: Sea | C | C | R | R | R |
| Water: Tap | R | R | C | C | R |

- r: Recommended
- C: Conditions dependant
- nr: Not Recommended
- n/a: Info not available

The above Corrosion Chart shows the likelihood of a particular material being suitable for an environment with a certain chemical present.

Used in conjunction with field tests and inspecting actual environmental conditions, the Corrosion Chart should assist in determining which materials and finishes can be selected to avoid high levels of corrosion.

However, information displayed in the chart can be used as a guide for comparison only, as subtle variables can influence the performance of these materials under certain conditions.

Dissimilar Metal's Corrosion

When iron is extracted from its ore, a fundamental common tendency of nature is immediately reversed. Iron and steel unprotected will corrode in most environments, thus returning to their natural states.

- All metal surfaces exposed to the environment are affected by corrosion. Corrosion is the deterioration of metals by direct chemical or electrochemical attack. The three commonly recognised forms of corrosion are:
- Direct chemical attack which can best be handled by not allowing the chemical attack agent to come into contact with the metal (see chart for further information).
- Electrochemical attack or electrical current flow through the metal is a common form of cable tray corrosion. It occurs in the presence of a conducting agent, or electrolyte. Usually this electrolyte is made up of a combination of rain, orsprays mixed with an industrial residue andchemical deposits.
- A third form of corrosion is Bimetallic Electrochemical corrosion, commonly referred to as galvanic corrosion. Although not normally a problem with cable trays, it can become a problem when two dissimilar metals come in contact in the presence of an electrolyte. Corrosion is reasonably preventable. Through selection and use of the appropriate product, material and protective finishes, savings can be made in plant maintenance costs by deferring the longer term replacement of the cable support systems. This catalogue is designed to assist you in protecting your cable support products through the correct selection of materials based on the prevalent conditions. Information is provided outlining whichmetals are safe to put into contact with each other,and how various steel products react to the exposureof certain chemicals.

The Table of Dissimilar Metals groups metalsthat have little galvanic effect on each other andare therefore relatively safe to put into contact.

The groups have been arranged with the corroded(ANODIC) metals at the top, and the protected(CATHODIC) metals at the bottom.

Any metal in the group above would corrode when in contact with a metal in the group below. Avoid pairing metals from widely separated groups, as the risk of corrosion will be greater. By using this table as a guide and analysing the local conditions of each site, it is more likely that a wise decision concerning material and finish selection can be made to minimise direct chemical attack and electrochemical corrosion.

| | |
|---|---|
|  | <p>CORRODED END (ANODIC) MAGNESIUM ZINC ALUMINIUM 1100 CADMIUM ALUMINIUM 2017</p> |
|  | <p>STEEL/IRON LEAD/TIN NICKEL BRASS/COPPER/BRONZE SILVER SOLDER STAINLESS STEEL 304/STAINLESS STEEL 316 TITANIUM SILVER GRAPHITE/GOLD/PLATINUM PROTECTED END (CATHODIC)</p> |

DESIGN & DEFLECTION

E-Line KCA OG cable ladder sections are designed and manufactured to achieve the loading requirements of the IEC 61537, and are available in various load and span performances .

A sample of each section has been tested and certified by a DEKRA approved facility, ensuring that we continue to provide the benchmark in product performance.

All reported results are based on uniformly distributed static loads.

150 mm and 200 mm Height KCA OG ladders are suitable for NEMA 20C standard .

Whilst NEMA publication does not specify a limitation on deflection, a guide to deflection has been included for easy reference.

All cable support deflections, within this catalogue, pertain to continuous cable support systems and do not take into consideration simply supported or end bay sections.

It should be noted that the positioning of splice joints and loading techniques can significantly impact upon the actual deflection. Refer to Nema VE2 installation guidelines for further information.

Special consideration should always be given to live loads resulting from cable pulling to ensure this does not exceed the static cable support load limit.

All load results detailed in this section have been derived from testing 600mm wide sections of mild steel cable ladders in the various configurations.

TECHNICAL SPECIFICATION

- 1) Cable Ladder shall be used in the places designated in the project for supporting power cables in their horizontal and vertical distribution.
- 2) Side rail of the cable ladder should have these features;
 - Different height according to different load capacity as 100 mm, 125 mm, 150 mm and 200 mm.
 - Height 100 mm has got 1 pc, Height 125, 150 and 200 mm have got 2 pcs of longitude bend lines for upgrade the load capacity
 - Thickness of the material can be 1,5 mm , 2 mm and 2,5 mm according to load capacity
 - Finishes and materials can be Hot Dip Galvanized, Silicon Rich Steel Sheet (DG) or Stainless steel according to corrosion protection level.
 - Upper side holes can supply opportunities for mounting cover to ladder, Lower side Holes can help to drainage the water.
- 3) The holes opened on the sides of Cable Ladders for the purpose of making joints shall be 10mm x 25 mm in size.
- 4) The rungs of Cable Ladders shall be welded to the sides at intervals of 300mm.
- 6) The Cable Ladders should be produced in equal lengths of 3m and 6m..
- 7) The rungs of Cable Ladders should be produced in type C Strud.
- a) C rungs should have a height of 21mm with holes of 13 mm x 25mm opened at intervals of 50mm from centre to centre.
- 8) Finishes;
 - Hot Dip Galvanized ISO EN 1461 : min 45 micron , average 55 micron ZINC
 - Silicon Rich Steel Sheet (DG) : 80-120 micron Zinc
- 9) In places where the Cable Ladder descends or ascends, the level adaptation modules or level adaptation Coupler pieces should be used.
- 10) The connection of Cable Ladders to each other should be made by means of two joining pieces for each Ladder. The mounting of all turning pieces to the Cable Ladder should be made using coupler.
- 11) In places where the Cable Ladder changes direction, the 90° horizontal elbows, "T" shaped horizontal connecting pieces and cross shaped horizontal turning pieces should be used.
- 12) In the case of densely placed Cable Ladders, the connections of Cable Ladders of different width should be realized using the "Z" type reduction modules. The central reduction module should comprise two symmetrical pieces. The left and right reduction modules should comprise a combination of one normal reduction piece and one joining piece.
- 13) In the mounting of couplers, the lacquer coated M10 x20 bolt set should be used. The bolts should be round headed, flanged and capable of self locking into their holes. The M10 nuts should be flanged and snug headed.
- 14) For the mounting of both joining modules and reduction modules, 4 joining bolt and nut sets(M10x20) should be used for Cable Ladders having a side height of 100 mm , 125 mm , 150 mm and 200 mm .
- 15) Cable ladders should not be walked on or used as walkways.

SAFETY

Heavy duty cable ladders are designed for rugged conditions and can withstand some abuse. However they are not designed or intended for use as walkways or scaffolds and proper working platforms or temporary access scaffolding must be provided for the use of installation personnel.

If any welding of equipment carry out , fumes should be removed with the proper ventilation and operator should wear the protective face mask.

EAE recommends to work under these levels of Zinc Oxide Fumes,

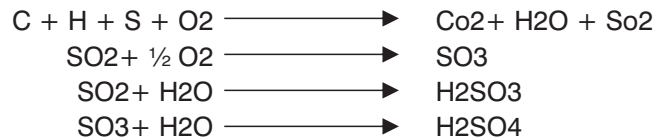
Short Term Exposure : 10 mg/m³

Long Term Exposure : 5 mg/m³

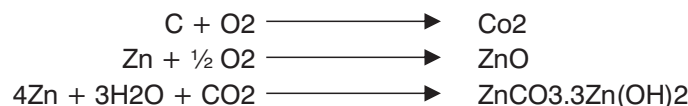
STORAGE

EAE recommends , pallets should be unload and set by Fork Lift Vehicle.

By the virtue of its composition, the galvanized sheet metal is known to be particularly sensitive against the effects of materials of acidic character, polluted air, water and relative humidity present above a certain rate. The service life of galvanized sheet metal is shorter in the industrial areas where the air is densely polluted. The most important element of atmospheric air pollution is sulphur dioxide.



The sulphurous and sulphuric acid forming at various rates reacts with the zinc and causes corrosion in the layer of galvanization. Decreasing the rate of atmospheric pollution or reducing it to zero will not be possible on an individual basis. To prevent the likely corrosion of the galvanized layer due to air pollution in stockpiling will be possible only by stockpiling the galvanized sheet metal in well protected warehouses. The matter causing the greatest concern regarding galvanized sheet steel are the white coloured spots called white rust, which develop on the surface of sheet metal during the course of stockpiling. Its development, however, can be minimized, even completely eliminated, by taking proper measures. The white rust is the result of a chemical reaction between zinc and the carbon dioxide, oxygen and water or moisture in the air.



The white rust phenomenon occurs during the stockpiling of galvanized sheet metal as a result of combined action of above-stated parameters and mostly in the case of stock-piled sheet metal. As the air with a high rate of moisture will be trapped between the pieces of stocked sheet metal, any differences in temperature will cause the trapped air to reach the dew point, leading to formation of droplets of water on the surfaces of sheet metal pieces. As a result, the oxygen dissolved in water will react with Zn to produce zinc hydroxide while the carbon dioxide present in the air will react with zinc to produce zinc carbonate. The combined result of these two reactions will lead to the development of zinc carbonate zinc hydroxide, called white rust.

In order to protect the stacked sheet metal against the effects of white rust for a certain period of time, although not for long, the pieces of sheet metal are subjected to a process named passivation. During this process, a protective film is produced on the surface of galvanized sheet metal through a chemical reaction. That protective film will protect the galvanized sheet metal against the formation of white rust for a certain period of time. In order to ensure said protection, however, the following conditions must be strictly observed.

- Stacked sheet metal must never be allowed to come in contact with water .
- There must be sufficient space provided for continuous circulation of air in the place where they are stacked.
- There must be sufficient space provided for proper circulation of air between the stacks of sheet metal (min 300mm between the two stacks).
- The temperature differences in the places of stockpiling must be small (between 5-10°C).
- The relative humidity in the places of stockpiling must not exceed 70%.
- The sheet metal must not be stockpiled in places where there is air pollution.
- Where the stacked sheet metal is to be stockpiled for long periods of time, each piece of sheet metal must be examined periodically, and any droplets of water likely to be formed on the surfaces of sheet metal must be wiped off and the surfaces must be dried.
- The stacks must be placed, without fail, on wooden palettes or props as to prevent the sheet metal to come in contact with the floor.

When the above conditions are fulfilled, it will be possible to ensure proper circulation of air in the place of stockpiling, thereby ensuring the formation of white rust at a reduced level.

PACKAGING

Standard Packing

Cable Trays&Ladders and Modules are packed using wooden pallets in order to ensure safe transportation to site. After being stacked on the wooden pallets the products are bound to the pallet using PVC strapping to prevent the goods sliding from the pallet. Wooden laths nailed on the sides and onto the palette ensure protection against forces that may possibly come from above and sides.

The specially designed wooden framework enables lifting of the pallet by fork lift vehicle from either side or one end only. It is also designed to prevent insertion of the forks between components which will cause damage



Support and suspension equipment used in the installation of the cable tray is covered using shrink wrap. Packages do not contain more than a total weight of 25 kg of product to facilitate the ease of transport. Product amount within the package are stuck onto the package arranged in 10 units or tenfold unit to facilitate counting. Labels containing the code, description, small technical drawing of the product and specifying the content and amount within the package are adhered onto the packages for easy product identification. Small product packages then are stacked onto wooden pallet and wrapped against scattering and supported on the sides using PVC strapping.



Accessories such as joint components, screws, nuts, dowels etc, are packed within cardboard parcels. In order to prevent screws, nuts, washers and dowels from rusting., they firstly are put into nylon bags. All parcels are prepared not exceeding 25kg and are identified by labels indicating product information. Small product packages then are stacked onto wooden pallet and wrapped against scattering and supported on the sides using PVC strapping.

All pallets are identified with labels indicating product information contained within. Palette labels also contain customer information and pallet total weight.

Package type above is for large scale projects. It may differ for small deliveries and warehouses.

|  TÜRK STANDARLARI ENSTİTÜSÜ TÜRK STANDARLARINA UYGUNLUK BELGESİ TURKISH STANDARDS INSTITUTION CERTIFICATE OF CONFORMITY TO TURKISH STANDARDS | |
|--|---|
| Markanın Türü / Description of the Mark | TSE  TSE |
| BELGE NUMARASI REFERENCE NUMBER OF LICENCE | 000287-TSE-04/03 |
| BELGENİN İLK VERİŞ TARİHİ DATE OF FIRST ISSUE OF LICENCE | 21.01.2010 |
| BELGENİN SON GEÇERLİLİK TARİHİ LICENCE VALID DATE | 13.12.2018 |
| BELGE SAHİBİ KURULUŞUN ADI NAME OF THE LICENCE HOLDER | EAE ELEKTRİK ASANSÖR ENDÜSTRİSİ İNŞAAT SANAYİ VE TİCARET ANONİM ŞİRKETİ |
| BELGE SAHİBİ KURULUŞUN ADRESİ ADDRESS OF THE LICENCE HOLDER | AKÇABURGAZ MAH. 3114 SOK. NO:10 ESENKÜLTÜR İSTANBUL/TÜRKİYE |
| ÜRETİM YERİ ADI NAME OF THE MANUFACTURING PLACE | EAE ELEKTRİK ANONİM ŞİRKETİ |
| ÜRETİM YERİ ADRESİ ADDRESS OF THE MANUFACTURING PLACE | Makine Fikriyatı Dövenler / K000 |
| İPTAL EDİLEN BELGE NUMARASI (varsa) INDICATOR OF SUPERSEDED LICENCE (if any) | 000287-TSE/4 |
| TESCİLLİ TİCARİ MARKASI REGISTERED TRADE MARK | EAE |
| İLGİLİ TÜRK STANDARHI RELATED TURKISH STANDARD | TB EN 61537 management |
| BELGE KAPSAMI SCOPE OF LICENCE | <p>-CABLE TRAY SYSTEMS- C CLASS, METALLIC COATED, OPERATING TEMPERATURES BETWEEN -20 °C - + 120 °C IMPACT RESISTANCE OF 50 J, CLASS 8 (ANTI-CORROSION), MANUFACTURED FROM METAL, MEDIUM DUTY-HEAVY DUTY</p> <p>-UK MODEL Cable Tray Systems (Tray and Fittings) (Width Range: from 50 mm up to 600 mm, Height Range: from 40 mm up to 2 mm.)</p> <p>-CT MODEL Tray Systems (Tray and Fittings) (Width Range: from 50 mm up to 600 mm, Height Range: from 40 mm up to 2 mm.(K.G 12.12.2017).</p> |

|  TÜRK STANDARLARI ENSTİTÜSÜ TÜRK STANDARLARINA UYGUNLUK BELGESİ EKİ TURKISH STANDARDS INSTITUTION CERTIFICATE OF CONFORMITY TO TURKISH STANDARDS APPENDIX | |
|---|--|
| BELGE KAPSAMI (000287-TSE-04/03nolu belge devamı) : EAE ELEKTRİK ASANSÖR ENDÜSTRİSİ İNŞAAT SANAYİ VE TİCARET ANONİM ŞİRKETİ İLGİLİ TÜRK STANDARHI/RELATED TURKISH STANDARD) TB EN 61537 / Cable tray systems and cable ladder systems for cable management (IEC 61537:2001) / 20.06.2007 | |
| <p>-UKF MODEL Cable Tray Systems (Tray and Fittings) (Width Range: from 100 mm to 600, Height Range: from 40 mm to 60 mm, Thickness Range: from 0.7 mm up to 0.9 mm.)</p> <p>CORROSION CLASS FOR PRE-GALVANIZED is 3 and FOR HOT-DIPPING is 8. (K.G 12.12.2017)</p> <p>-UKFG MODEL, UKFC MODEL (with bolt junction) Cable Tray Systems (Tray and Fittings) (Width Range: from 100 mm to 600, Height Range: from 40 mm to 60mm, Thickness Range: from 0.7 mm up to 0.9 mm.)</p> <p>CORROSION CLASS is 3 DUE TO PRE-GALVANIZED NATURE (K.G 12.12.2017)</p> <p>-CTK MODEL Tray Systems (Tray and Fittings) (Width Range: from 100 mm up to 600 mm, Height Range: from 60 mm up to 100 mm, Thickness Range: from 1.5 mm up to 2 mm.)</p> <p>CORROSION CLASS FOR HOT-DIPPING is 5. (K.G 12.12.2017)</p> <p>-TKS MODEL Tray Systems (Tray and Fittings) (Width Range: from 50mm up to 150 mm, Height Range: from 50 mm up to 150 mm, Thickness Range: from 1.2 mm up to 1.5 mm)</p> <p>CORROSION CLASS is 3 DUE TO PRE-GALVANIZED NATURE, A CLASS (K.G 12.12.2017)</p> <p>- CABLE LADDER SYSTEM AND FITTINGS + Y CLASS, METALLIC COATED, OPERATING TEMPERATURES BETWEEN -20 °C - + 120 °C (ENTERPRISE STATEMENT) IMPACT RESISTANCE OF 50 J, CLASS 8 (ANTI-CORROSION), MANUFACTURED FROM METAL, MEDIUM DUTY-HEAVY DUTY</p> <p>-KC MODEL Cable Ladder and Fittings (Including Accessories) (Width Range: from 100 mm to 600, Height Range: from 40 mm to 100 mm, Thickness Range: from 1.5 mm up to 2 mm)</p> <p>-KM MODEL Cable Ladder and Fittings (Including Accessories) (Width Range: from 100 mm to 600, Height Range: from 40 mm to 150 mm, Thickness Range: from 1.2 mm up to 2 mm)</p> <p>CORROSION CLASS FOR PRE-GALVANIZED is 3 and for HOT-DIPPING is 8. (K.G 12.12.2017)</p> <p>- UMK MODEL Cable Ladder and Fittings (Including Accessories) (Width Range: from 100 mm to 500, Height: 60 mm, Thickness Range: from 0.8 mm up to 1.2 mm)</p> <p>-KCA OG MODEL Cable Ladder and Fittings (Including Accessories) (Width Range: from 150 mm, Height Range: from 100 mm up to 200 mm, Thickness Range: from 1.5 mm up to 2.5 mm)</p> <p>CORROSION CLASS FOR HOT-DIPPING is 8. (K.G 12.12.2017)</p> | |
|  |  22/01/2018 Belgeleme Merkezi Başkanı Adına AHMET NURSI KARTAL MANAGER OF THE TSE İSTANBUL CERTIFICATION DEPT. |
| <p><small>*Bu belge, belgenin tüm alanları için geçerlidir. Belgenin herhangi bir kısmının değiştirilmesi, belgenin geçerliliğini ortadan kaldırır. *This certificate is valid for all areas. Any change in any part of the certificate will void the certificate. *TSE İSTANBUL BELGELENDİRME MERKEZİ / Aerial, Çarşılar, Tarih Sokakları / TURKISH STANDARDS INSTITUTION - İstanbul *TSE BELGELENDİRME MERKEZİ / İstanbul, Çarşılar, Tarih Sokakları / TSE BELGELENDİRME MERKEZİ - İstanbul *TSE BELGELENDİRME MERKEZİ / İstanbul, Çarşılar, Tarih Sokakları / TSE BELGELENDİRME MERKEZİ - İstanbul</small></p> | |

TEST CERTIFICATE

Issued to: EAE Elektrik Asansör End. İnsaat San. ve Tic. A.S.
Akçaburgaz Mahallesi 119
Sokak No: 10, 34510 Esenyurt / İstanbul, Turkey

For the product: Cable bearing systems

Trade name: EAE Elektrik A.S.

Types: Cable ladders: 060 KM 100 ~ 600 / 075 KM 100 ~ 600 / 100 KM 100 ~ 600 / 125 KM 100 ~ 600 & 150 KM 100 ~ 300
060 KCH 100 ~ 300 / 075 KCH 100 ~ 300 / 100 KCH 100 ~ 300
125 KCH 100 ~ 300 & 150 KCH 100 ~ 300
100 KCA OG 150 ~ 1100 / 125 KCA OG 150 ~ 1100 / 150 KCA OG 150 ~ 1100 & 200 KCA OG 150 ~ 1100

Manufactured by: EAE Elektrik Asansör End. İnsaat San. ve Tic. A.S.
Akçaburgaz Mahallesi 119
Sokak No: 10, 34510 Esenyurt / İstanbul, Turkey

Subject: Fire behaviour of building materials and elements - Fire resistance of electric cable systems required.

Requirements: DIN 4102-12:1998

Remarks: For the classifications see Fires Test Report FIRES-JR-205-14-NURE (17-02-2015).
This Test Certificate is valid till 11 January 2019 and expires upon withdrawal of one of the above mentioned standards or after changing the construction, materials or production method.

This Test Certificate is granted on account of an examination by DEKRA, the results of which are laid down in a confidential file no 217510100 (FIRES Test Report FIRES-JR-205-14-NURE, dated 17-02-2015).

The examination has been carried out on one single specimen of the product, submitted by the manufacturer. The Attestation does not include an assessment of the manufacturer's production. Conformity of his production with the specimen tested by DEKRA is not the responsibility of DEKRA.

Arnhem, 11 January 2016

Number: 2175101.03

DEKRA Certification B.V.



drs. G.J. Zoetbrood
Managing Director



H.R.M. Barends
Certification Manager

© Integral publication of this certificate and adjoining reports is allowed

Efectis

TURKAK
TÜRK AKREDİTASYON KURUMU

TURKISH ACCREDITATION AGENCY
tarafından akredite edilmiştir



EFFECTIS ERA AVRASYA TEST VE BELGELENDİRME A.Ş.

TOSB TAYSAD Organize San. Böl. 1. CD. 15. Yol No: 1

Şekerpınar - Çayırova, KOCAELİ

DENEY RAPORU

TEST REPORT

AB-0556-T

14.02.2017

RFTR17020

| | | |
|---|---|--|
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| İstek numarası <i>Order No.</i> | : | EEA-16-000412-REV2 |
| Numunenin adı ve tanımı <i>Name and identity of test sample</i> | : | Cable System - Power cables fixed on cable trays, cable ladders and clips "EAE |
| Numunenin kabul tarihi <i>The date of receipt of sample</i> | : | 19.12.2016 |
| Açıklamalar <i>Remarks</i> | : | |
| Deneyin yapıldığı tarih <i>Date of test</i> | : | 26.12.2016 |
| Raporun sayfa sayısı <i>Number of pages of the Report</i> | : | 33 (39 pages including appendixes) |

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The test and/or measurement results, the uncertainties (if applicable) with confidence probability and test methods are given on the following pages which are part of this report

Mühür
Seal

Tarih
Date

Deney Sorumlusu
Person in charge of test

Laboratuvar Müdürü
Head of Testing Laboratory



14.02.2017

Yusuf ÜSTÜNDAĞ

Ali BAYRAKTAR

Bu rapor, laboratuvarın yazılı izni olmadan kısmen kopyalanıp çoğaltılamaz.

Imzasız ve mühürsüz raporlar geçersizdir.

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