

KAJ[®]

kajworld.com

Email : info@kajworld.com

  **+971 52 831 3848 UAE**

  **+91 9830060210 INDIA**

DUCTILE IRON

Solid Top Manhole Covers, Sewer Cover, Drainage Cover, Telecom Cover, Earth Pit Cover, Recessed Cover, Iron Gratings, Channel Gratings, Square Gratings, Catch Basin, Tree Gratings, Hydrant Cover, Kerb Gullies



KAJ[®]

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+91 9830060210
+91 9088866000
+971 52 831 3848 DUBAI

Solid Top Manhole Covers, Sewer Cover, Drainage Cover, Telecom Cover, Earth Pit Cover, Recessed Cover, Iron Gratings, Channel Gratings, Square Gratings, Catch Basin, Tree Gratings, Hydrant Cover, Kerb Gullies

DUCTILE IRON MANHOLE COVER



FRP MANHOLE COVER



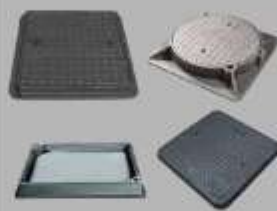
STAINLESS STEEL FLOOR DRAIN



HINGED SOLID TOP MANHOLE COVER



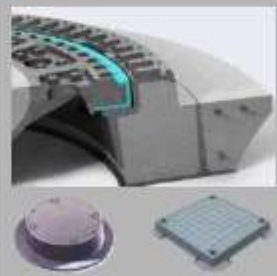
CAST IRON MANHOLE COVER



CATCH MANHOLE COVER



WATER TIGHT AIR TIGHT MANHOLE COVER



CHANNEL GRATING



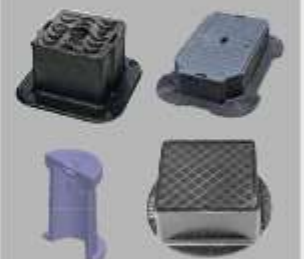
ROOF DRAIN



ALUMINUM MANHOLE COVER



SURFACE BOX



STEEL GRATINGS



FOOT STEP



OUR PLANTS

Regd. Office: 74A, Charu Avenue,
Kolkata, West Bengal, 700 033

Unit - I: Plot 27A (P) WBIIDC Growth Center, Uluberia
Dist. : Howrah - 711315, **State :** West Bengal, India

Unit - II: Monoharbahal, **P.O.:** Ethora, Asansol (North)
Dist. : Burdwan, **State :** West Bengal, India

Unit III : 3-7 Main Road Vallore, **Vill.:** Reddypally Colony
Mandal : Chegunta, **Dist :** Medak, **State :** Telengana, India



Certificates Approval

प्रारूप आरजी - 2
Form RG - 2



भारत सरकार
Government of India

व्यापार चिन्ह रजिस्ट्री
Trade Mark Registry

व्यापार चिन्ह अधिनियम, 1999

Trade Marks Act, 1999

व्यापार चिन्ह के रजिस्ट्रीकरण का प्रमाणपत्र, धारा 23 (2), नियम 56 (1)

Certificate of Registration of Trade Mark, Section 23 (2), Rule 56 (1)



क्रमांक
No. 3140680

व्यापार चिन्ह संख्या / Trade Mark No. 4998778

दिनांक / Date 09/06/2021

ज. संख्या / J. No. 2065

यह प्रमाणित किया जाता है कि जिस प्रकार चिन्ह की सहायता इसके साथ संलग्न है, वह नाम से रजिस्ट्रीकृत हो चुका है।
के बारे में दिनांक

Certified that Trade Mark / a representation is annexed hereto, has been registered in the name(s) of:-

KAJ BUILDING MATERIAL PRIVATE LIMITED, 74A, CHARU CHANDRA AVENUE, KOLKATA, PIN - 700033, PRIVATE LIMITED, (Body Incorporate)

In Class 6 Under No. 4998778 as of the date 09 June 2021 in respect of

MANUFACTURER OF BUILDING MATERIAL & CONSTRUCTION ENGINEERING PRODUCTS AS INCLUDED IN CLASS 6.

Solid Top Manhole Covers, Sewer Cover, Drainage Cover, Telecom Cover,
Earth Pit Cover, Recessed Cover, Iron Gratings, Channel Gratings, Square
Gratings, Catch Basin, Tree Gratings, Hydrant Cover, Kerb Gullies

मेरे निर्देश पर आज के मास के वे दिन को इस पर मुद्रा लगायी गई

Sealed at my direction, this 31st day of December, 2022

Trade Mark No. 4998778
Annexure of Certificate No. : 3140680
Date 09/06/2021

KAJ

IN CHAPTER CLASS 6 SCHEDULE

व्यापार चिन्ह रजिस्ट्री

Trade Marks Registry MUMBAI

Solid Top Manhole Covers, Sewer Cover, Drainage Cover, Telecom Cover,
Earth Pit Cover, Recessed Cover, Iron Gratings, Channel Gratings,
Square Gratings, Catch Basin, Tree Gratings, Hydrant Cover, Kerb Gullies,



38/11/2021
व्यापार चिन्ह रजिस्ट्रार
Registrar of Trademarks

रजिस्ट्रीकरण आवेदन की तारीख से 10 वर्ष के लिए है और तबसे प्रति 10 वर्ष की अवधि के लिए और प्रत्येक 10 वर्ष की अवधि के अंतर्गत पर भी नवीनीकृत किया जा सकता।
Registration is for 10 years from the date of application and then be renewed for a period of 10 years and also at the expiration of each period of 10 years.

यह प्रमाणपत्र केवल न्यायिक प्रक्रियाओं में उपयोग के लिए या विवाद में रजिस्ट्रीकरण अधिनियम करने के लिए नहीं है।
This certificate is not for use in legal proceedings or for obtaining Registration abroad.

टिप्पणी - इस व्यापार चिन्ह के स्वामित्व में कोई परिवर्तन होने पर, या कार्यालय के मुख्य स्थान के पते में या भारत में कार्यालय के लिए पते में परिवर्तन होने पर परिवर्तन के लिए आवेदन तुरंत किया जाना चाहिए।
Note: Upon any change of ownership of this Trademark, or change in address, of the principal place of business or address for service in India a request should AT ONCE be made to register the change.

Certificates of Approval

Certificate of Registration

This is to Certify That
Quality Management System of

KAJ®

KAJ BUILDING MATERIAL PRIVATE LIMITED
REGD. OFFICE : 74A CHARU AVENUE, KOLKATA - 700 033, INDIA
FACTORY : PLOT 27A/P, WBIDC GROWTH CENTER,
ULUBERIA, HOWRAH, WEST BENGAL, 711316, INDIA

has been assessed and found to conform to the requirements of

ISO 9001:2015

for the following scope :

Solid Top Manhole Covers, Sewer Cover, Drainage Cover,
Telecom Cover, Earth Pit Cover, Recessed Cover, Iron Gratings,
Channel Gratings, Square Gratings, Catch Basin,
Tree Gratings, Hydrant Cover, Kerb Gullies,

Certificate No : 24MEQT783
Initial Registration Date : 19/10/2024 Issuance Date : 19/10/2024
Date of Expiry : 18/10/2027
1st Surve. Due : 19/09/2025 2nd Surve. Due : 19/09/2026

 **DIRECTOR**
Magnitude Management Services Pvt. Ltd.

Certificate of Registration

This is to Certify That
Environmental Management System of

KAJ®

KAJ BUILDING MATERIAL PRIVATE LIMITED
REGD. OFFICE : 74A CHARU AVENUE, KOLKATA - 700 033, INDIA
FACTORY : PLOT 27A/P, WBIDC GROWTH CENTER,
ULUBERIA, HOWRAH, WEST BENGAL, 711316, INDIA

has been assessed and found to conform to the requirements of


ISO 14001:2015

for the following scope :

Solid Top Manhole Covers, Sewer Cover, Drainage Cover,
Telecom Cover, Earth Pit Cover, Recessed Cover, Iron Gratings,
Channel Gratings, Square Gratings, Catch Basin,
Tree Gratings, Hydrant Cover, Kerb Gullies,

Certificate No : 24MEETY01
Initial Registration Date : 19/10/2024 Issuance Date : 19/10/2024
Date of Expiry : 18/10/2027
1st Surve. Due : 19/09/2025 2nd Surve. Due : 19/09/2026

 **DIRECTOR**
Magnitude Management Services Pvt. Ltd.

Certificate of Registration

This is to Certify That
Occupational Health & Safety Management System of

KAJ®

KAJ BUILDING MATERIAL PRIVATE LIMITED
REGD. OFFICE : 74A CHARU AVENUE, KOLKATA - 700 033, INDIA
FACTORY : PLOT 27A/P, WBIDC GROWTH CENTER,
ULUBERIA, HOWRAH, WEST BENGAL, 711316, INDIA

has been assessed and found to conform to the requirements of

ISO 45001:2018

for the following scope :

Solid Top Manhole Covers, Sewer Cover, Drainage Cover,
Telecom Cover, Earth Pit Cover, Recessed Cover, Iron Gratings,
Channel Gratings, Square Gratings, Catch Basin,
Tree Gratings, Hydrant Cover, Kerb Gullies,

Certificate No : 24MEOTAD1
Initial Registration Date : 19/10/2024 Issuance Date : 19/10/2024
Date of Expiry : 18/10/2027
1st Surve. Due : 19/09/2025 2nd Surve. Due : 19/09/2026

 **DIRECTOR**
Magnitude Management Services Pvt. Ltd.

KAJ® Ministry Of Corporate Affairs
Government of India / 1001101001 Date : 18-10-2024 3:58:50 pm

Company Information

CIN	U25110WB2024PTC268167
Company Name	KAJ BUILDING MATERIAL PRIVATE LIMITED
ROC Name	ROC Kolkata
Registration Number	268167
Date of Incorporation	06/02/2024
Email Id	kajbuilding@gmail.com
Registered Address	74A, CHARU CHANDRA AVENUE, Tollygunge, Kolkata, Kolkata, West Bengal, India, 700033
Address at which the books of account are to be maintained	-
Listed in Stock Exchange(s) (Y/N)	No
Category of Company	Company limited by shares
Subcategory of the Company	Non-government company
Class of Company	Private
ACTIVE compliance	-
Authorised Capital (Rs)	10,00,000
Paid up Capital (Rs)	1,00,000
Date of last AGM	-
Date of Balance Sheet	-
Company Status	Active

Jurisdiction

ROC (name and office) ROC Kolkata

Government Certificates



Government of India / भारत सरकार
Ministry of Commerce and Industry / वणिज्य और उद्योग विभाग
Directorate General of Foreign Trade / निर्यात प्रमुख महानिदेशक
Office of the Additional Director General of Foreign Trade, Kolkata नया मुंबई, 700069
4, Esplanade East, KOLKATA, WEST BENGAL, 700069 / 4, एस्पलेड ईस्ट, कोलकाता, पश्चिम बंगाल, 700069

Importer-Exporter Code


This is to certify that **KAJ BUILDING MATERIAL PRIVATE LIMITED** is issued an Importer-Exporter Code (IEC) **AAKCR8021C** with details as follows:-

IEC	AAKCR8021C
आई एक्स ई कोड / IAN	AAKCR8021C
फर्म का नाम/Name	KAJ BUILDING MATERIAL PRIVATE LIMITED
प्रकार की प्रकृति / Nature of Concern	Private Limited
पंजीकृत स्थिति / State of Issue	20102024
पंजीकृत पता / Registered Address	3RD FLOOR, 74A, AACHAL APARTMENT, CHARU CHANDRA AVENUE, Kolkata, West Bengal, KOLKATA, KOLKATA, WEST BENGAL, 700033
सहस्रनामा / Name of the Signatory	Rudraj Mukherjee
Director / Partner Details	Refer online at https://dgti.gov.in or scan the QR Code
शाखा/शाखा / Branch Details	Refer online at https://dgti.gov.in or scan the QR Code

Last Modified : 29/10/2024
File Number : KOLKCPA1PLV0002442AM25



Note : This is a system-generated certificate. Authenticity / Updated details of the IEC can be checked at official DGT website <https://dgti.gov.in> by entering the IEC and Firm Name under Services > View Any




GOVERNMENT OF INDIA
MINISTRY OF CORPORATE AFFAIRS
Central Registration Centre
Certificate of Incorporation

(Pursuant to sub-section (2) of section 7 and sub-section (2) of section 8 of the Companies Act, 2013 (18 of 2013) and rule 15 of the Companies (Incorporation) Rules, 2014)

I hereby certify that **KAJ BUILDING MATERIAL PRIVATE LIMITED** is incorporated on this SIXTH day of FEBRUARY TWO THOUSAND TWENTY FOUR under the Companies Act, 2013 (18 of 2013) as a **Private** Company Limited by shares.

The Corporate Identity Number of the company is **U2818WD2024PTC288183**
The Permanent Account Number (PAN) of the company is **AAKCR8021C**
The Tax Deduction and Collection Account Number (TAN) of the company is **COLK188024**


Given under my hand at Mumbai this SIXTH day of FEBRUARY TWO THOUSAND TWENTY FOUR



Deputy Registrar of Companies
Mumbai

Assistant Registrar of Companies / Deputy Registrar of Companies
For and on behalf of the Jointed Registrar of Companies
Registrar of Companies
Central Registration Centre

Disclaimer: This certificate only evidences incorporation of the company on the basis of documents and declarations of the applicant. This certificate is neither a license nor permission to conduct business or collect deposits or funds from public. Issuance of such regulator is necessary when required. Registration status and other details of the company can be verified on <https://dgti.gov.in>

Shelving Address is not meant available in Register of Companies office:
KAJ BUILDING MATERIAL PRIVATE LIMITED
74A, Charu Avenue, Tollygunge, Kolkata, Kolkata - 700033, West Bengal
Not issued by Income Tax Department





Government of India
Form GST REG-46
(See Rule 10(1))
Registration Certificate
Registration Number : 19AAKCR8021C12M

1. Legal Name	KAJ BUILDING MATERIAL PRIVATE LIMITED			
2. Trade Name, if any	KAJ BUILDING MATERIAL PRIVATE LIMITED			
3. Additional trade names, if any				
4. Constitution of Business	Private Limited Company			
5. Address of Principal Place of Business	Floor No.: 3rd Building No./Flat No.: 74A Name Of Premises/Building: Aachal Apartment Road/Street: CHARU AVENUE Nearby Landmark: Seagram/Seagram Bhandar Locality/Sub Locality: Tollygunge City/Town/Village: Kolkata District: Kolkata State: West Bengal PIN Code: 700033			
6. Date of Liability				
7. Date of Validity	From	06/02/2024	To	Not Applicable
8. Type of Registration	Regular			
9. Particulars of Approving				
Signature				
Name				
Designation				
Jurisdictional Office				
Date of issue of Certificate	25/04/2024			

Note: The registration certificate is required to be prominently displayed at all places of Business/Office(s) in the State.

This is a system generated digitally signed Registration Certificate issued based on the deemed approval of application on 25/04/2024.



भारत सरकार
Government of India
सूक्ष्म, लघु एवं मध्यम उद्यम विभाग
Ministry of Micro, Small and Medium Enterprises



UDYAM REGISTRATION CERTIFICATE

UDYAM REGISTRATION NUMBER: **UDYAM-WB-16-031799**

NAME OF ENTERPRISE: **KAJ BUILDING MATERIAL PRIVATE LIMITED**

TYPE OF ENTERPRISE:

S.No.	Classification Year	Enterprise Type	Classification Date
1	2024-25	Micro	19/09/2024

MAJOR ACTIVITY: **MANUFACTURING**

SOCIAL CATEGORY OF ENTREPRENEUR: **GENERAL**

NAME OF UNIT(S):

S.No.	Name of Unit(s)
1	KAJ BUILDING MATERIAL PRIVATE LIMITED

OFFICIAL ADDRESS OF ENTERPRISE:

Flat/Block No.	74A	Name of Premises/ Building	Aachal
Village/Town	Kolkata	Block	1
Road/Street/Lane	Charu Avenue	City	Kolkata
State	WEST BENGAL	District	KOLKATA, Pin 700033
Mobile	9880400000	Email	info@kajbuild.com

DATE OF INCORPORATION / REGISTRATION OF ENTERPRISE: **06/02/2024**

DATE OF COMMENCEMENT OF PRODUCTION/BUSINESS: **04/04/2024**

NATIONAL INDUSTRY CLASSIFICATION CODE(S):

S.No.	NIC 3 Digit	NIC 4 Digit	NIC 5 Digit	Activity
1	24	2411	24111	Manufacture of other iron and steel casting and products thereof

DATE OF UDYAM REGISTRATION: **19/09/2024**

1. In case of graduation (upgradation) of status of an enterprise, the benefit of the Government Schemes will be entitled as per the provisions of Notification No. S.O. 11902 dated 24.06.2023 issued by the Mo MSME.
(Disclaimer: This is a computer generated document, no signature required. Printed from <https://udiyamregistration.gov.in> & Date of printing: 19/09/2024

6



شهادة تسجيل علامة تجارية

عملاً بأحكام المادة 17 من مرسوم اتحادي رقم (36) لسنة 2021، بشأن العلامات التجارية تشهد وزارة الاقتصاد أن العلامة التجارية التي سبق تقديم طلب تسجيلها تحت رقم: 446319 بتاريخ: 2025/03/24

من قبل: تاباس رودرا بهوميك بينود رودرا بهوميك

الموطن:

.. اسم الشركة: شركة كاج لتجارة مواد البناء بالجملة ذ.م.م

صورة العلامة



اسم العلامة: KAJ

رقم الفئة: 7 (بيان المنتجات موضح خلف الصفحة)

بيانات الأولوية: رقم طلب الأولوية: تاريخ الطلب: الجنسية:

قد تم تسجيلها بتاريخ: 2025/05/22

وسيظل التسجيل نافذ المفعول لمدة 10 عشر سنوات اعتباراً من 2025/03/24 وينتهي في: 2035/03/24

ويجوز تجديد الحماية وفقاً لأحكام المادة 21 من مرسوم اتحادي رقم (36) لسنة 2021، بشأن العلامات التجارية لمدد متتالية أخرى كل منها عشر سنوات.
الاشتراطات:



تحريراً في: 2025/05/22

بيان المنتجات الخاص بالعلامة المودعة تحت رقم 446319

للفئة: 7 - آلات وعدد آلية، محركات ومكانن (عدا ما كان منها للمركبات البرية)، قارنات آلية وعناصر نقل الحركة (عدا ما كان منها للمركبات البرية)، معدات زراعية (عدا ما يدار باليد)، أجهزة تفقيس البيض، آلات بيع أوتوماتية.

DUCTILE IRON

Product Range



Includes an infiltration feature which drastically reduces surface water ingress.



Includes integrated anti-fall protection.



(For gully gratings only)
Includes a specially designed grating for use in pedestrian areas.



Includes an ergonomically positive opening feature. Gold indicates a fully ergonomic opening system. Silver indicates a semi-ergonomic inspection system.



Includes a security feature to deter unauthorised access ranging from high security (gold) to lesser locking levels.



(For gully gratings only)
Indicates the level of absorption efficiency of a grating ranging from high (gold) to lesser levels.



For access covers only)
Includes a feature which reduces egress of unwanted odour ranging from high resistance (gold) to lesser levels.

Product Selector

Class A15

Access covers and gratings capable of with standing a 1.5 tonnes test load. For use in areas where only pedestrians have access.

Class B125

Access covers and gratings capable of with standing a 1.5 tonnes test load. For use in car parks and pedestrian areas where occasional vehicular access is likely.

Class C250

Access covers and gratings capable of with standing a 25 tonnes test load. For use in areas where not extending more than 500mm from the kerb face into the carriageway.

Class D400

Access covers and gratings capable of with standing a 40 tonnes test load. For use in areas cars and lorries have access, including carriageways, hard shoulders and pedestrian areas. All units to be either non- rock or silent in operation.

Class E600

Access covers and gratings capable of with standing a 60 tonnes test load. For use in areas where heavy wheel loads are imposed such as loading areas, docks or aircraft pavements.

Class F900

Access covers and gratings capable of with standing a 90 tonnes test load. For use in areas where very heavy wheel loads are imposed such as aircraft pavements.

Load Classes



Example:
Pedestrians and cycle ways, garage doors, domestic drives, dawned areas.



Example:
Light Vehicle driveways, private car parks, pedestrian precincts



Example:
Service stations (cars), park side areas, paved areas, kerb sides



Example:
Carriageway locations, service station fore courts, public areas



Example:
Industrial areas, forklifts, dock sides



Example:
Airport runways, service yards and lorry parks, military bases



Includes the Load Transfer System (LTS) feature for optimum installation and durability.

The *Kaj* range of highway products is manufactured in accordance with the relevant European or British Standard performance specification BS 5834 and BS 750 for surface boxes.

The symbols detailed below are those incorporated in the selection box in the 'At a glance' section, indicating recommended applications and allowing appropriate product selection.

AT A Glance



The *Kaj* selection box in the 'At a glance' section of the product pages is a quick reference guide to product selection and enables important performance and product specification criteria to be assessed quickly and conveniently.



The gold and silver indicators identify the added benefit each product provides. level of



(For access covers only) Includes a feature(s) that offers improved skid and slip resistance.

Product Selector



Class A15

Access covers and gratings capable of withstanding a 1.5 tonnes test load. For use in areas where only pedestrians have access.



Class B125

Access covers and gratings capable of withstanding a 12.5 tonnes test load. For use in car parks and pedestrian areas where occasional vehicular access is likely.



Class C250

Access covers and gratings capable of withstanding a 25 tonnes test load. For use in areas where not extending more than 500mm from the kerb face into the carriageway.



Class D400

Access covers and gratings capable of withstanding a 40 tonnes test load. For use in areas where cars and lorries have access, including carriageways, hard shoulders and pedestrian areas. All units to be either non-rock or silent in operation.



Class E600

Access covers and gratings capable of withstanding a 60 tonnes test load. For use in areas where heavy wheel loads are imposed such as loading areas, docks or aircraft pavements.



Class F900

Access covers and gratings capable of withstanding a 90 tonnes test load. For use in areas where very heavy wheel loads are imposed such as aircraft pavements.

Specifying products under IS EN 124 Interactive technical advisory service

As the leading manufacturer of access covers and gratings, offers specifier, users, contractors and merchants a comprehensive technical advisory service.

This service is provided free of charge by a team of highly qualified professionals who are fully trained to advise on Megacity full range of products. This can include telephone assistance, written technical guidance, specifications and site visits to advise on use and installation as required.

At a Glance

The range of highway products is manufactured in accordance with the relevant Indian or UAE Standard performance specification UAE BS/ EN124 for access covers and gully grates, and UAE 5834 and UAE 750 for surface boxes.

The symbols detailed below are those incorporated in the selection box in the 'At a glance' section, indicating recommended applications and allowing appropriate product selection.

At a glance



The Kaj selection box in the 'At a glance' section of the product pages is a quick reference guide to product selection and enables important performance and product specification criteria to be assessed quickly and conveniently.



Suitable for use in domestic areas with occasional light vehicular access.



Suitable for use in car parks and areas of slow-moving access to cars and light commercial vehicles.



Suitable for use in conditions of heavy traffic, eg. main city streets and roads.



Suitable for use where continuous high levels of fast-moving heavy traffic are present.



Suitable for areas subject to slow-moving heavy loadings, eg. industrial premises.



Includes an ergonomically positive opening feature.

Gold indicates a fully ergonomic opening system. Silver indicates a semi-ergonomic inspection system.



Includes a security feature to deter unauthorised access ranging from high security (gold) to lesser locking levels.



(For gully gratings only)

Indicates the level of absorption efficiency of a grating ranging from high (gold) to lesser levels.



(For access covers only)

Includes a feature which reduces egress of unwanted order ranging high resistance (gold) to lesser levels.



The gold and silver indicators identify the added level of benefit each product provides.



(For access covers only)

Includes a feature(s) that offers improved skid and slip resistance



Suitable for areas subject to very heavy wheel loads such as aircraft pavements and containers.



Includes the Load Transfer Systems (LTS) feature for optimum installation and durability.



Includes an infiltration feature which drastically reduces surface water ingress.



Includes integrated anti-fall protection.



(For gully gratings only)

Includes a specially designed grating for use in pedestrian areas.

DUCTILE IRON

Product Range



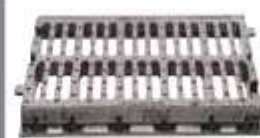
Access Covers



Gully Grates



Channel Gratings



Kerb Drainage



Surface Boxes



Solid Top Round Cover



Solid Top Square Cover



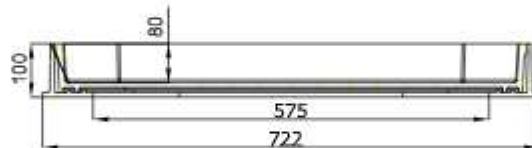
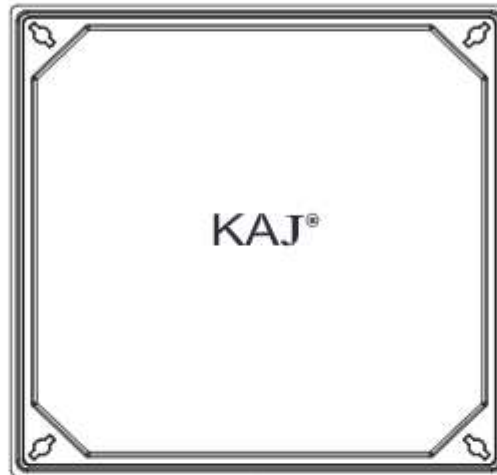
Recess Cover



THE INFORMATION TRANSMITTED BY THE PROPRIETARY AND CONFIDENTIAL PROPERTY OF MEQASITY AND MAY NOT BE DUPLICATED, DISCLOSED, OR UTILIZED WITHOUT WRITTEN CONSENT FROM MEQASITY.

RevNo	Date	RevNo	Date	Signature

600x600 DOUBLE SEAL RECESS (D400) WITH GRP SEAL



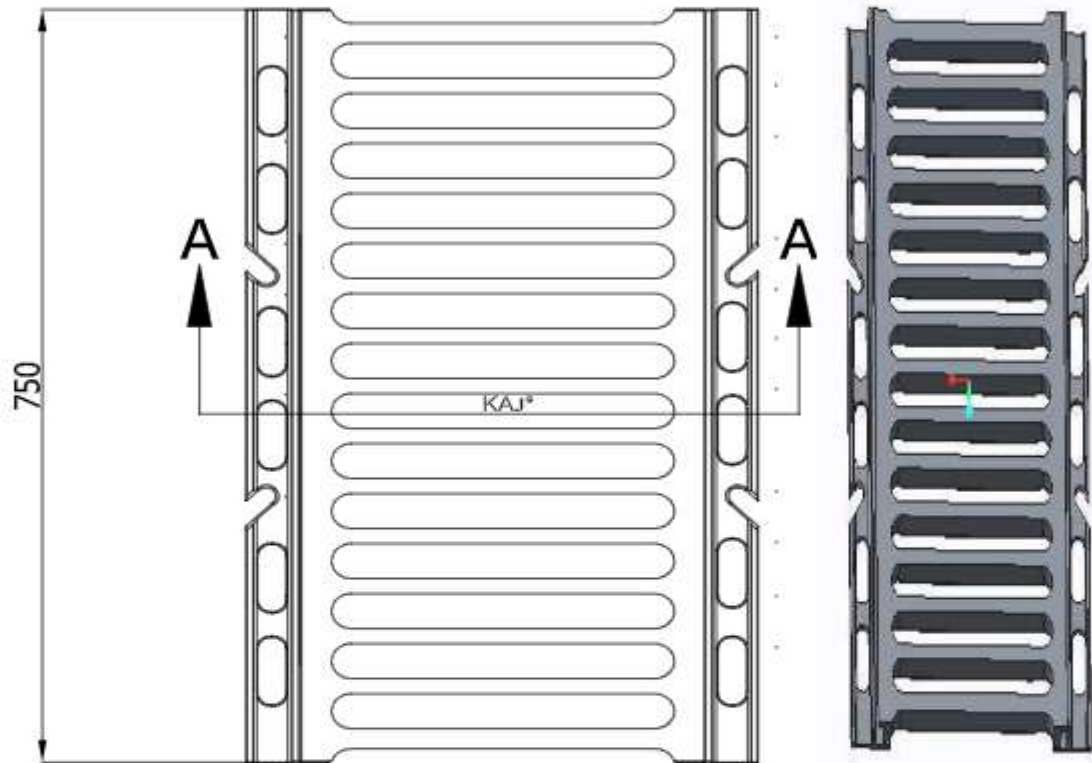
Drawn By	Ckd By	Drg. No. -	Weight -
Name B.Y	T.B		
Date 18.02.24	18.02.24		
Sign		Drawing Description -	Material -
Coating -		600x600 DOUBLE SEAL	DUCTILE IRON
Black bituminous		REC (D400) WITH GRP	
Loading - D 400			
Specification - BS EN124-2			
Scale - NTS	Sheet - 1 OF 1		
All Dimension are in MM			

KAJ[®]

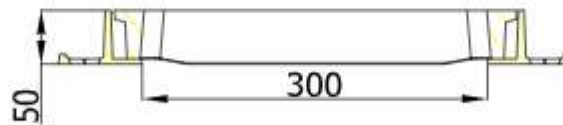
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RevNo	Date	RevNo	Date	Signature

300X750 GRATE & RAIL D 400



TOP VIEW



SECTION- A-A



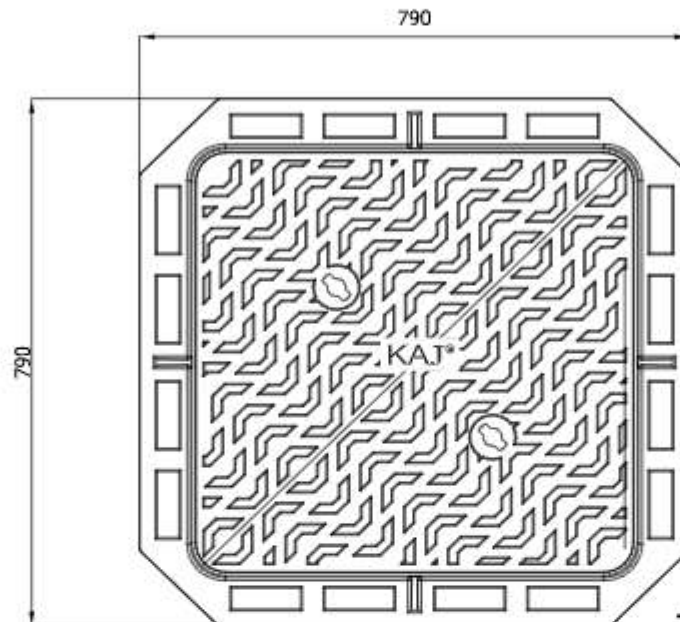
Drawn By Name B.Y.	Ckd By T.B.	Drg. No.-	Weight -
Date 18.02.24	18.02.24		
Sign		Drawing Description - 300X750 GRATE & RAIL	Material - DUCTILE IRON
Coating - Black bituminous			
Loading - D 400			
Specification - BS EN124-2			
Scale - NTS	Sheet - 1 OF 1		
All Dimension are in MM			

KAJ[®]

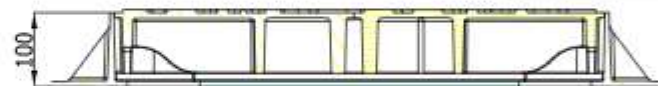
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RevNo	Date	RevNo	Date	Signature

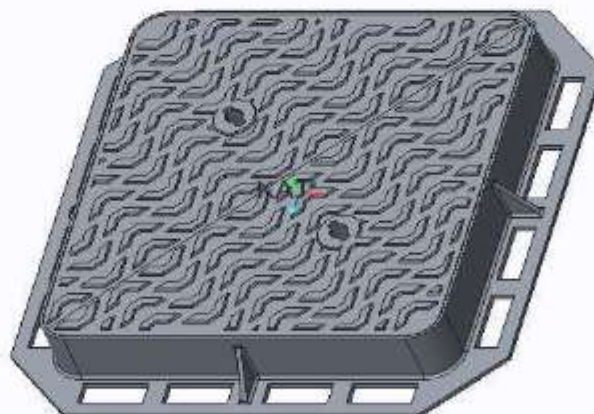
600x600 DOUBLE TRIANGULAR COVER & FRAME D 400



TOP VIEW

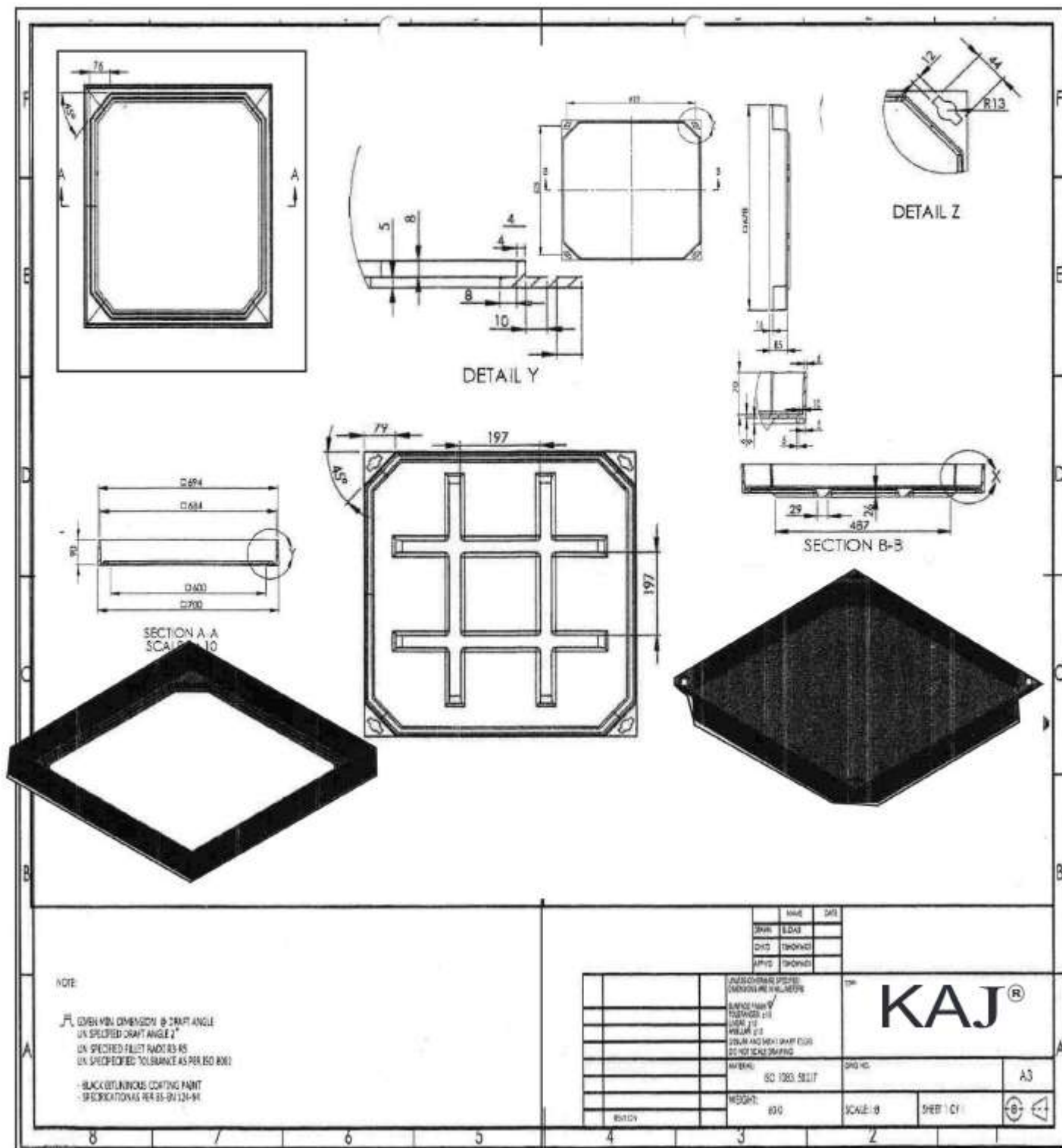


SECTION- A-A



Drawn By	Chd By	Org. No.-	Weight:-
Name B.Y	T.B		
Date 18.02.24	18.02.24		
Sign		Drawing Description-	Material-
Coating -		600x600 DT COVER & FRAME	DUCTILE IRON
Black bituminous			
Loading- D 400			
Specification- BS EN124-2			
Scale- NTS	Sheet - 1 OF 1		
All Dimension are in MM			

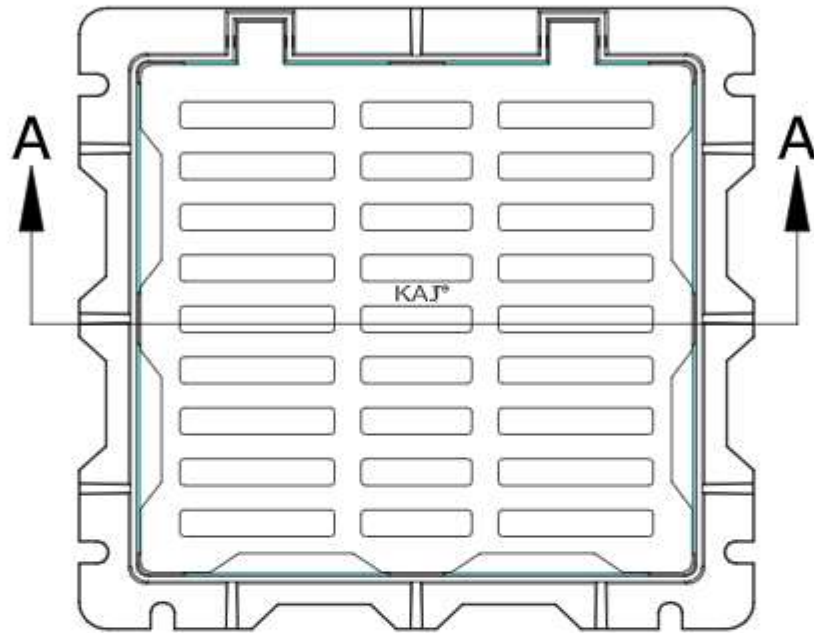
600x600 MEDIUM DUTY SOLID TOP DOUBLE SEAL - B125



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RevNo	Date	RevNo	Date	Signature

450X450 GRATE & FRAME D 400 HINGED TYPE



TOP VIEW



SECTION- A-A



Drawn By	Ckd By	Drg. No. -	Weight:-
Name B.Y	T.B		
Date 18.02.24	18.02.24		
Sign		Drawing Description-	Material-
Coating -		450X450 GRATE & FRAME	DUCTILE IRON
Black bituminous			
Loading - D 400			
Specification- BS EN124-2			
Scale - NTS	Sheet - 1 OF 1		
All Dimension are in MM			

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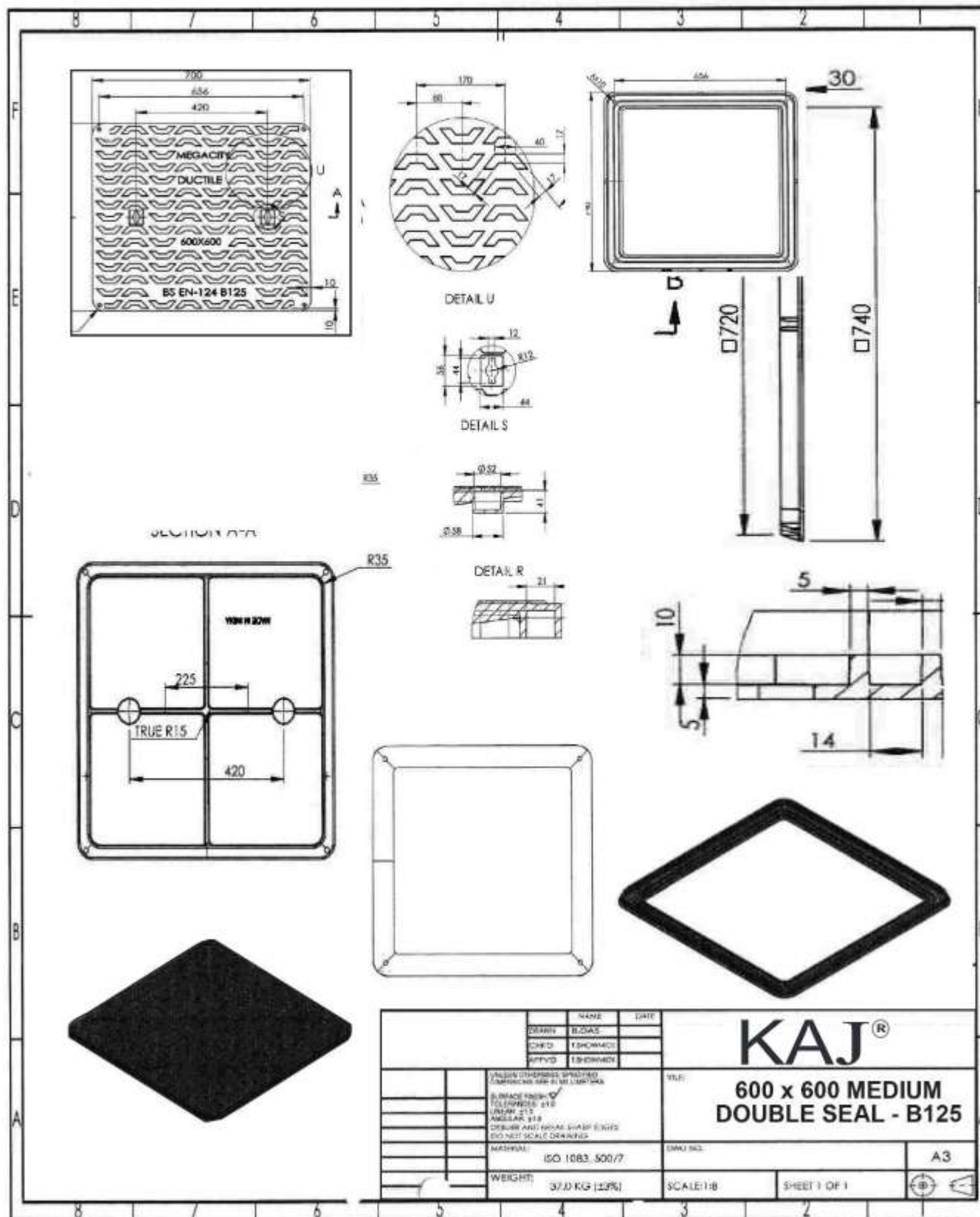
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Email : info@kajworld.com

Solid Top Manhole Covers, Sewer Cover, Drainage Cover, Telecom Cover, Earth Pit Cover, Recessed Cover, Iron Gratings, Channel Gratings, Square Gratings, Catch Basin, Tree Gratings, Hydrant Cover, Kerb Gullies

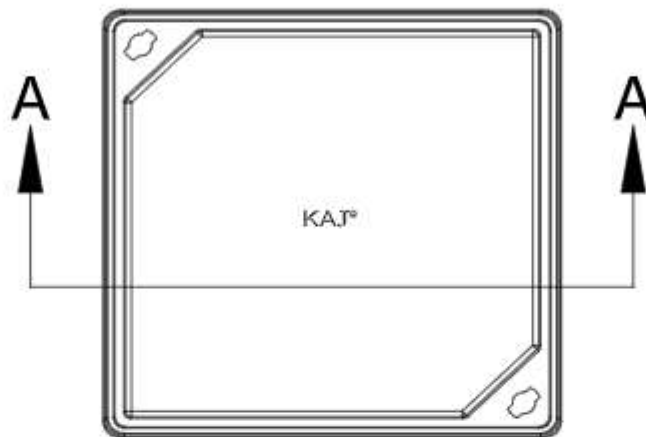
600 x 600 X MEDIUM DOUBLE SEAL _B125



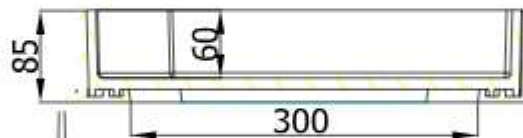
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RevNo	Date	RevNo	Date	Signature

300x300 RECESS COVER & FRAME D 400



TOP VIEW

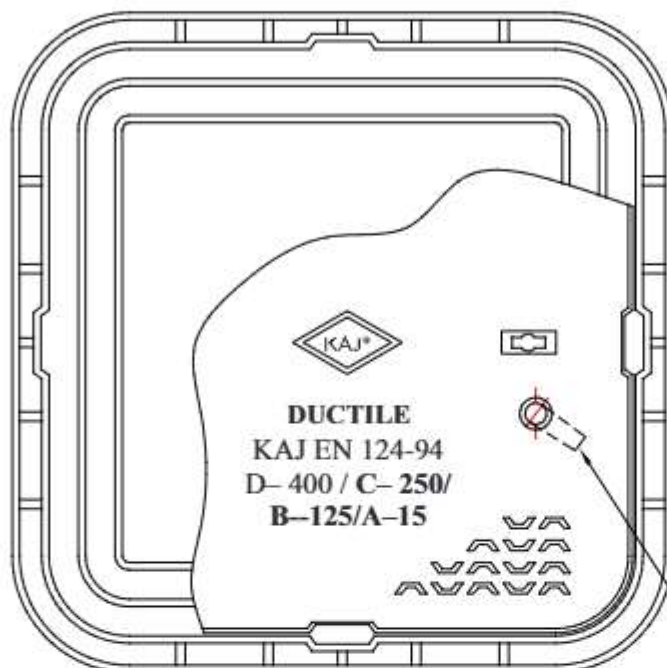


SECTION- A-A

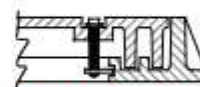


Drawn By	Ckd By	Org. No -	Weight -
Name B.Y.	T.B.		
Date 18.02.24	18.02.24		
Sign		Drawing Description -	Material -
Coating -		300X300 REC COVER & FRAME	DUCTILE IRON
Black bituminous			
Loading - D 400			
Specification - BS EN124-2			
Scale - NTS	Sheet - 1 OF 1		
All Dimension are in MM			

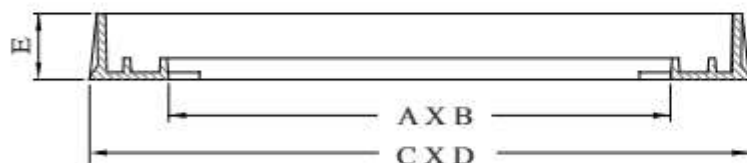
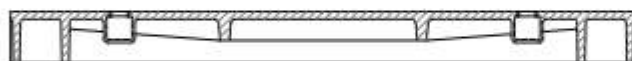
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PLAN



DETAIL OF LOCKING



WEIGHT

NOTES:-

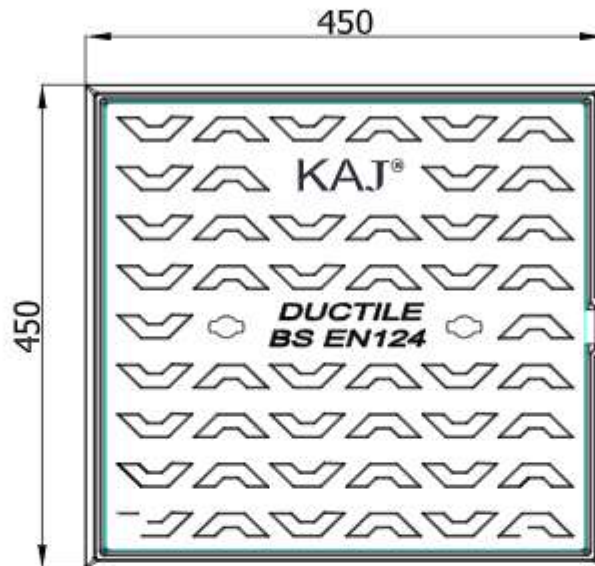
1. DIMENSION:- ALL ARE IN MM
2. FINISH:- COATING WILL BE BLACK BITUMINOUS PAINT
3. MARKING:- IT WILL BE CASTED AS REQUIRED.
4. SPECIFICATION:- BS EN 124-94.
5. MATERIAL:- ISO 1083-500/7
6. CAN SUPPLY WITH LOCKING AT EXTRA COST.

SL. NO.	BASE REFERENCE	CLEAR OPENING A X B	OVER BASE C X D	DEPTH H	GRADE	GRP PROVISION
A	KAJ 30x 30	305 x 305	450 x 450	45	D-400	✓
A-L			SAPARATE	DRG.		✓
B	KAJ 45x 45	450 x 450	590 x 590	41	B-125	✓
B-H		450 x 450	590 x 590	41	C-250	✓
C		500 x 500	600 x 500	40	D-400	✓

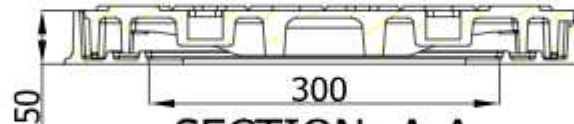
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RevNo	Date	RevNo	Date	Signature

300x300 SOLID TOP COVER & FRAME D 400



TOP VIEW



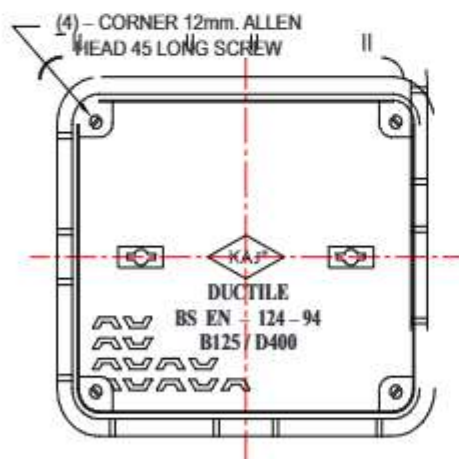
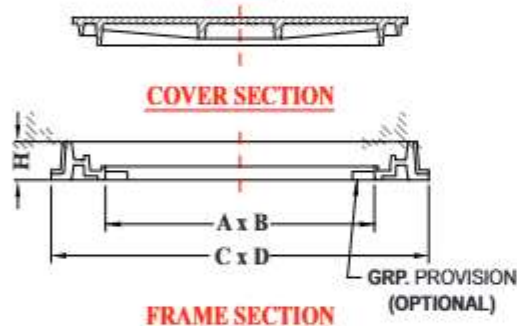
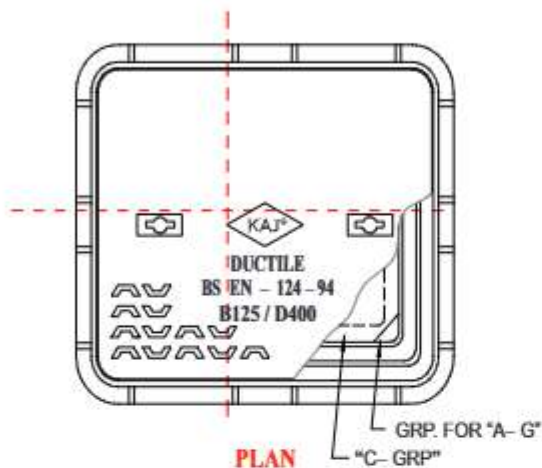
SECTION- A-A



Drawn By	Ckd. By	Drng. No. -	Weight -
Name B.Y.	T.B.		
Date 18.02.24	18.02.24		
Sign		Drawing Description -	Material -
Coating -		300X300 S/T COVER & FRAME	DUCTILE IRON
Black bituminous			
Loading - D 400			
Specification - BS EN124-2			
Scale - NTS	Sheet - 1 OF 1		
All Dimension are in MM			

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SOLID TOP



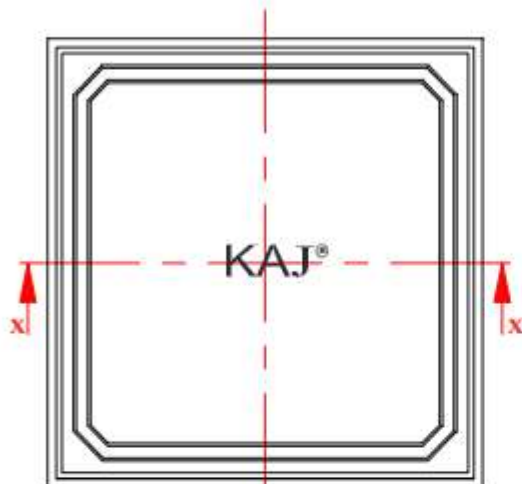
CLEAR OPENING A X B	OVER BASE C X D	DEPTH H	GRADE
MM.	MM.	MM.	
600 x 600	795 x 795	75 / 100	D-400
600 x 600	795 x 795	50	B-125
450 x 450	560 x 560	50	B-125
450 x 450	560 x 560	70	D-400



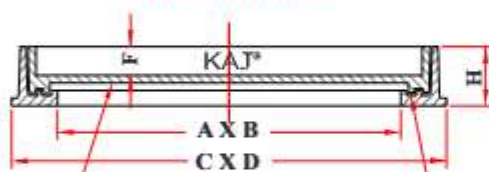
NOTES:-

1. DIMENSION:- ALL ARE IN MM
2. FINISH:- COATING WILL BE BLACK BITUMINOUS PAINT on REQUEST.
3. MARKING:- IT WILL BE CASTED AS REQUIRED.
4. SPECIFICATION:- BS EN 124-94.
5. MATERIAL:- ISO 1083/BS 2789 GR. 500/7.
6. CAN SUPPLY WITH 4 NOS. S.S. ALLEN SCREW AT EXTRA COST.
7. OPTIONAL:- EPOXY PAINT ON REQUEST WITH EXTRA COST.

RECESS COVER



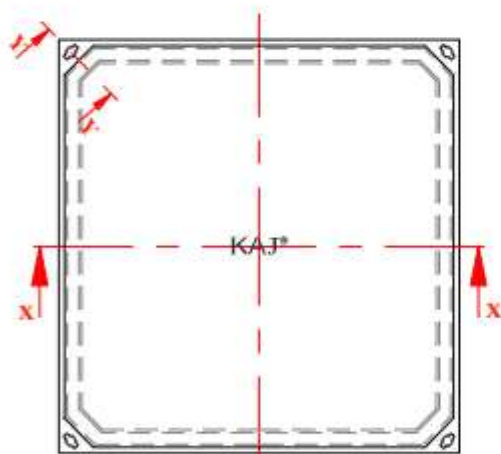
PLAN OF FRAME



KAJ
BS EN 124-94
DUCTILE

SECTION - X - X

RUBBER GASKET
(OPTIONAL)



PLAN OF COVER



SECTION - Y - Y

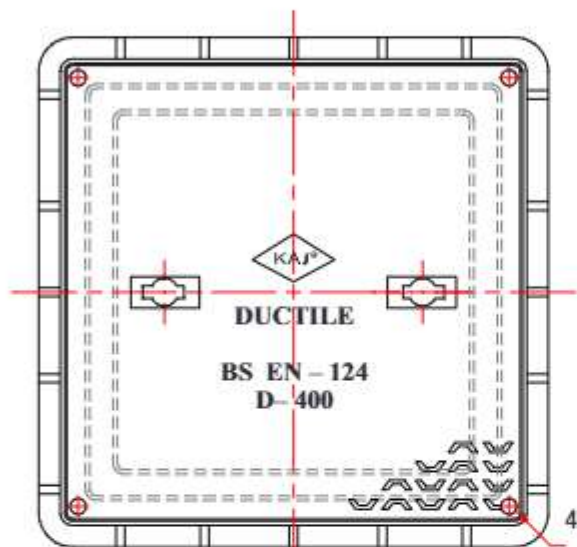
Clear Opening	Over Base	Height	Recess Depth	GRADE
MM.	MM.	MM.		
600 x 600	720 x 720	50	7 CENTY	B-125
600 x 600	720 x 720	75/100	7 CENTY	D-400
300 x 300	400 x 400	32	7 CENTY	B-125
300 x 300	400 x 400	60	7 CENTY	D-400
450 x 450	530 x 530	50	7 CENTY	B-125
450 x 450	530 x 530	60	7 CENTY	D-400
800 x 800	950 x 950	80	7 CENTY	B-125
800 x 800	950 x 950	100	7 CENTY	D-400



NOTES:-

1. DIMENSION:- ALL ARE IN MM
2. FINISH:- COATING WILL BE BLACK BITUMINOUS PAINT
3. MARKING:- IT WILL BE CASTED AS REQUIRED.
4. SPECIFICATION:- BS EN 124-94.
5. MATERIAL:- ISO 1083/BS 2789 GR. 500/7

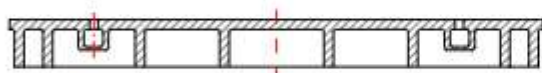
600 x 600 SOLID TOP D 400



PLAN

Clear Opening	Over Base	Height	GRADE
MM	MM	MM	
600 x 600	770 x 770	75/100	D-400
300 x 300	470 x 470	50	D-400
450 x 450	580 x 580	60	D-400

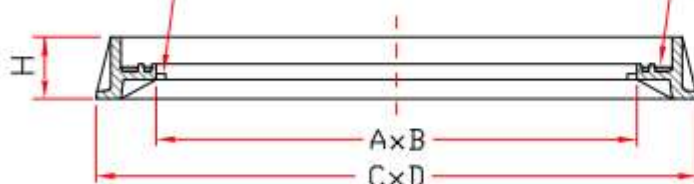
4NO. BOLTING AT 4 CORNER (OPTIONAL)



GRP PROVISION (OPTIONAL)

COVER SECTION

GASKET (OPTIONAL)



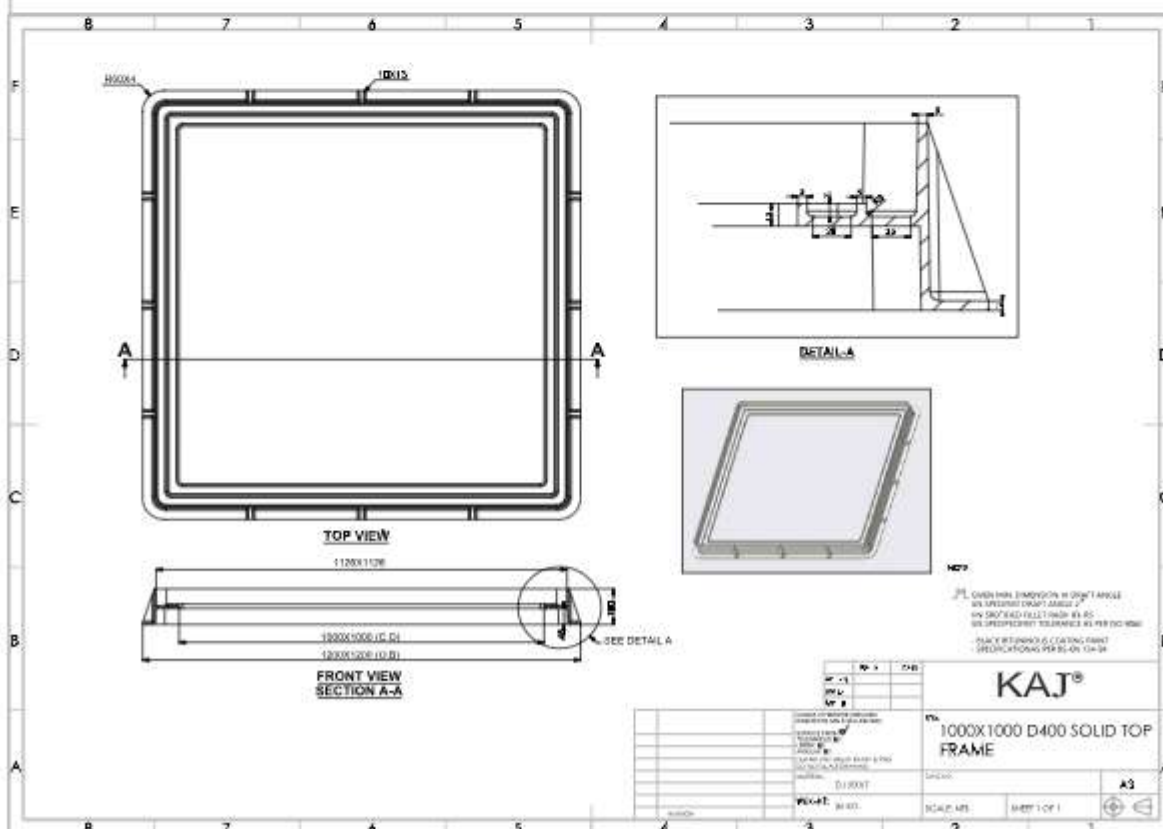
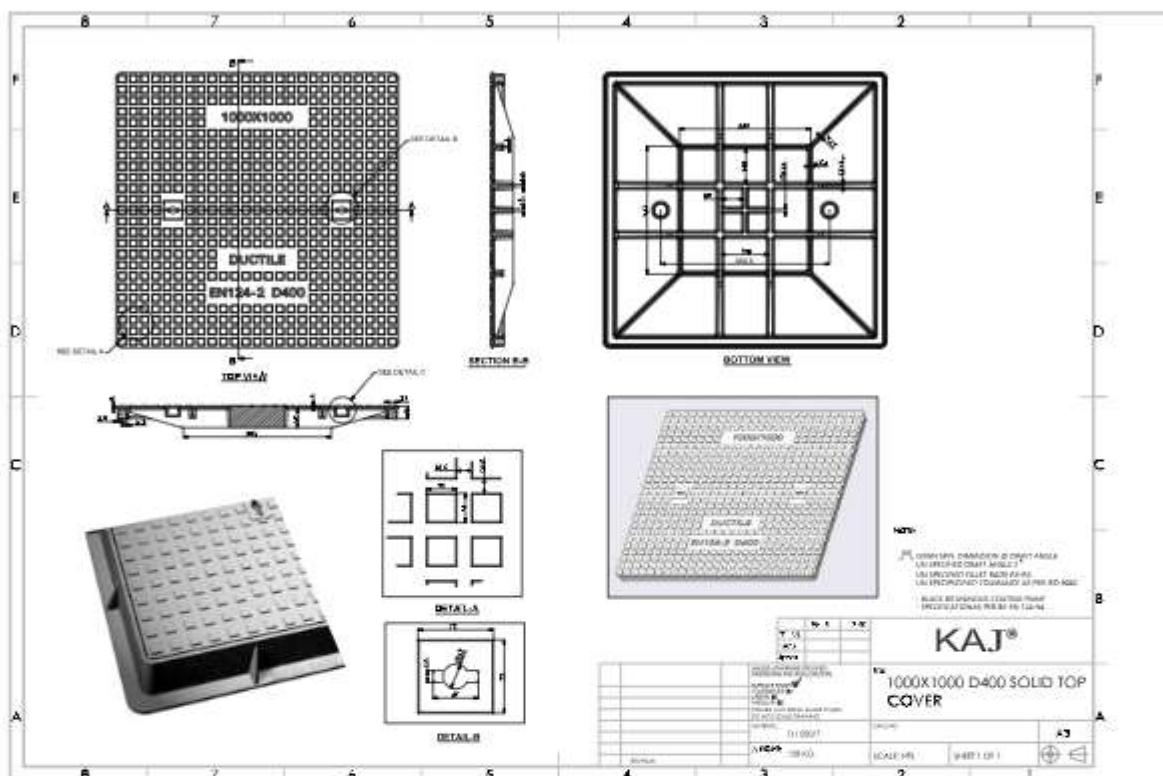
FRAME SECTION

NOTES:-

- 1.DIMENSION:- ALL ARE IN MM
2. FINISH:- COATING WILL BE BLACK BITUMINOUS PAINT
3. MARKING:- IT WILL BE CASTED AS REQUIRED.
4. SPECIFICATION:- BS EN 124-94
5. MATERIAL:- ISO 1083 – 500/7
6. BOLTING PROVIDED WHEN SPECIFIED, AT EXTRA COST

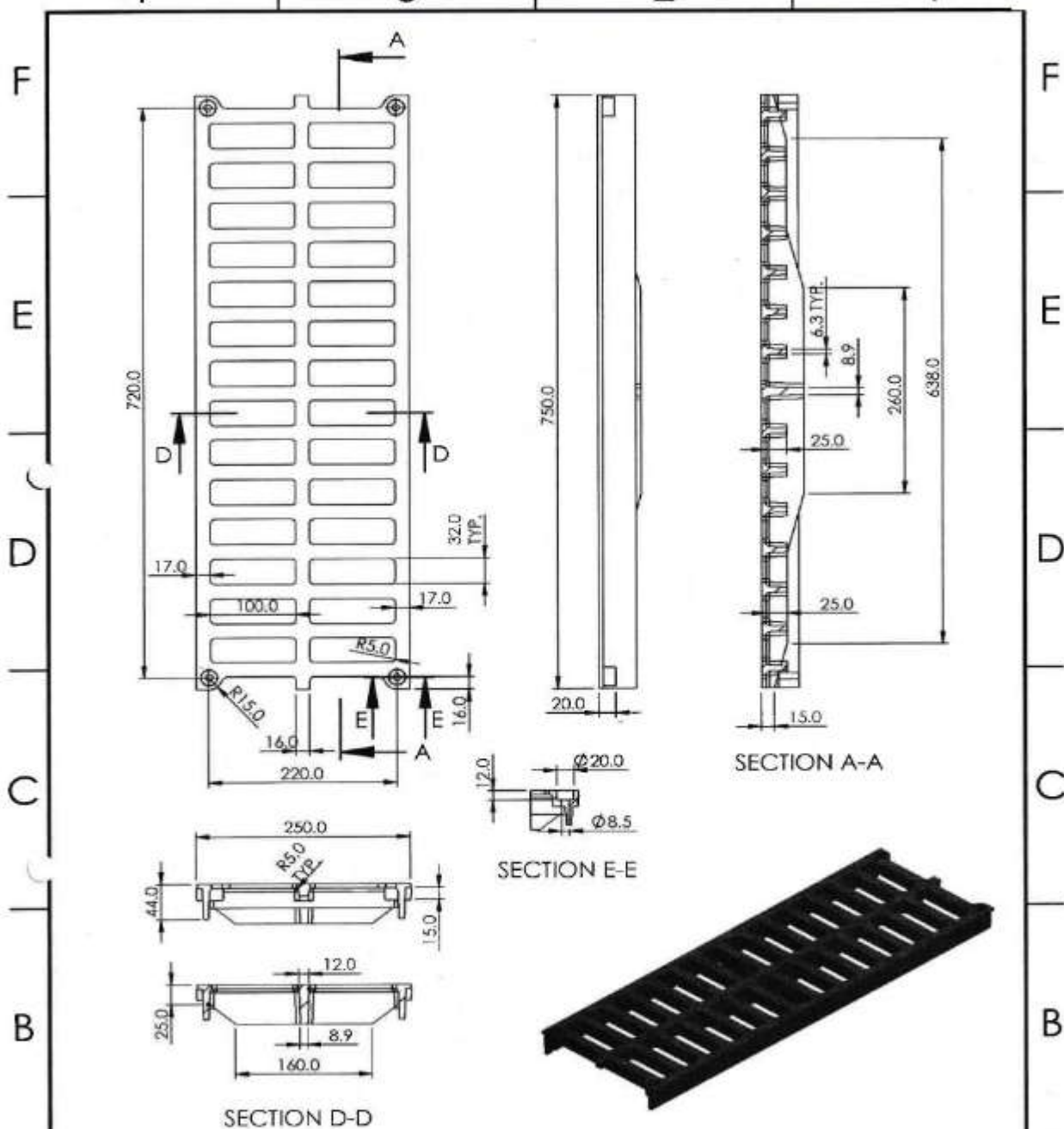



1000 x 1000 SOLID TOP D 400



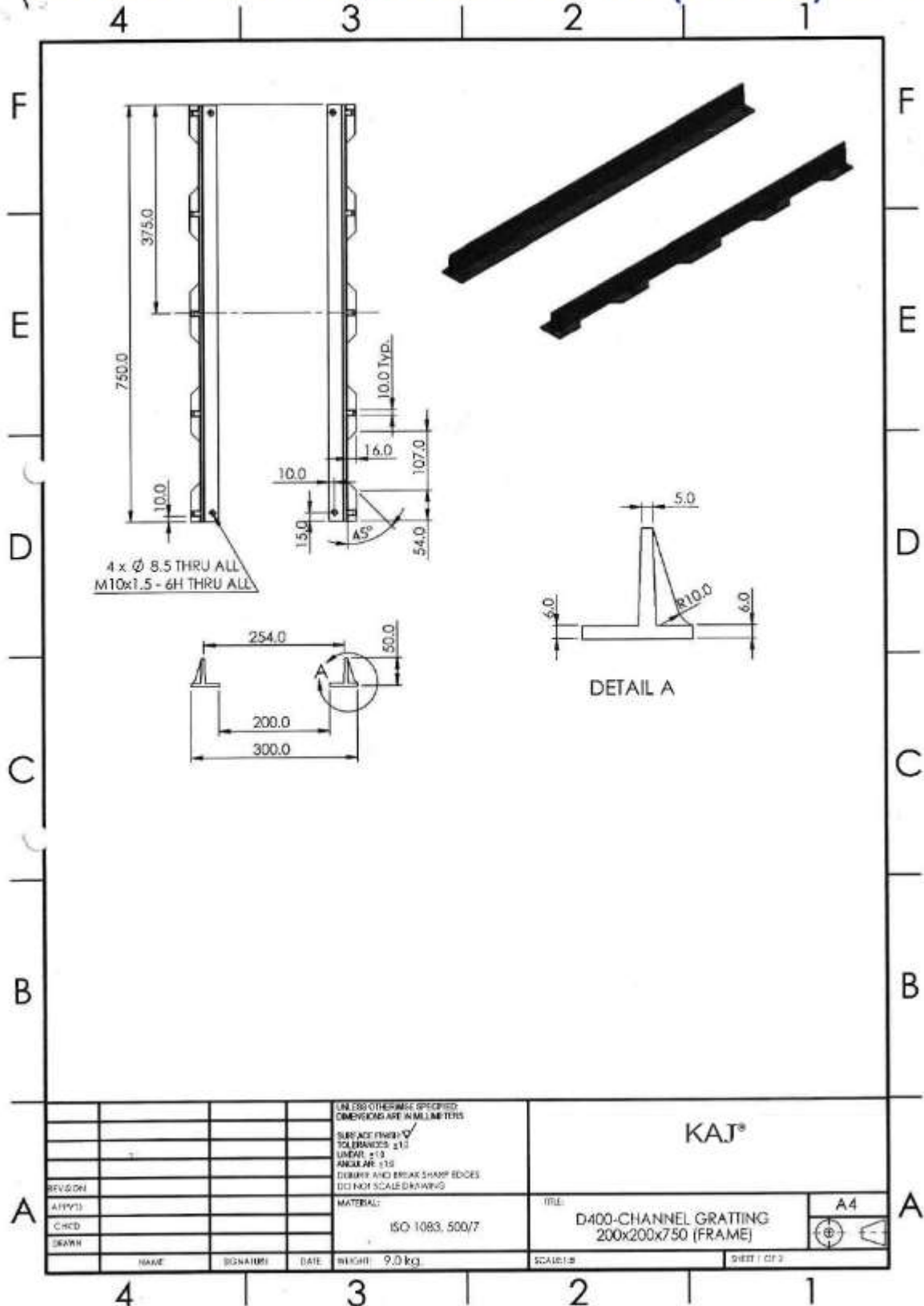


200x 200 x 750 SOLID TOP (GRATE)

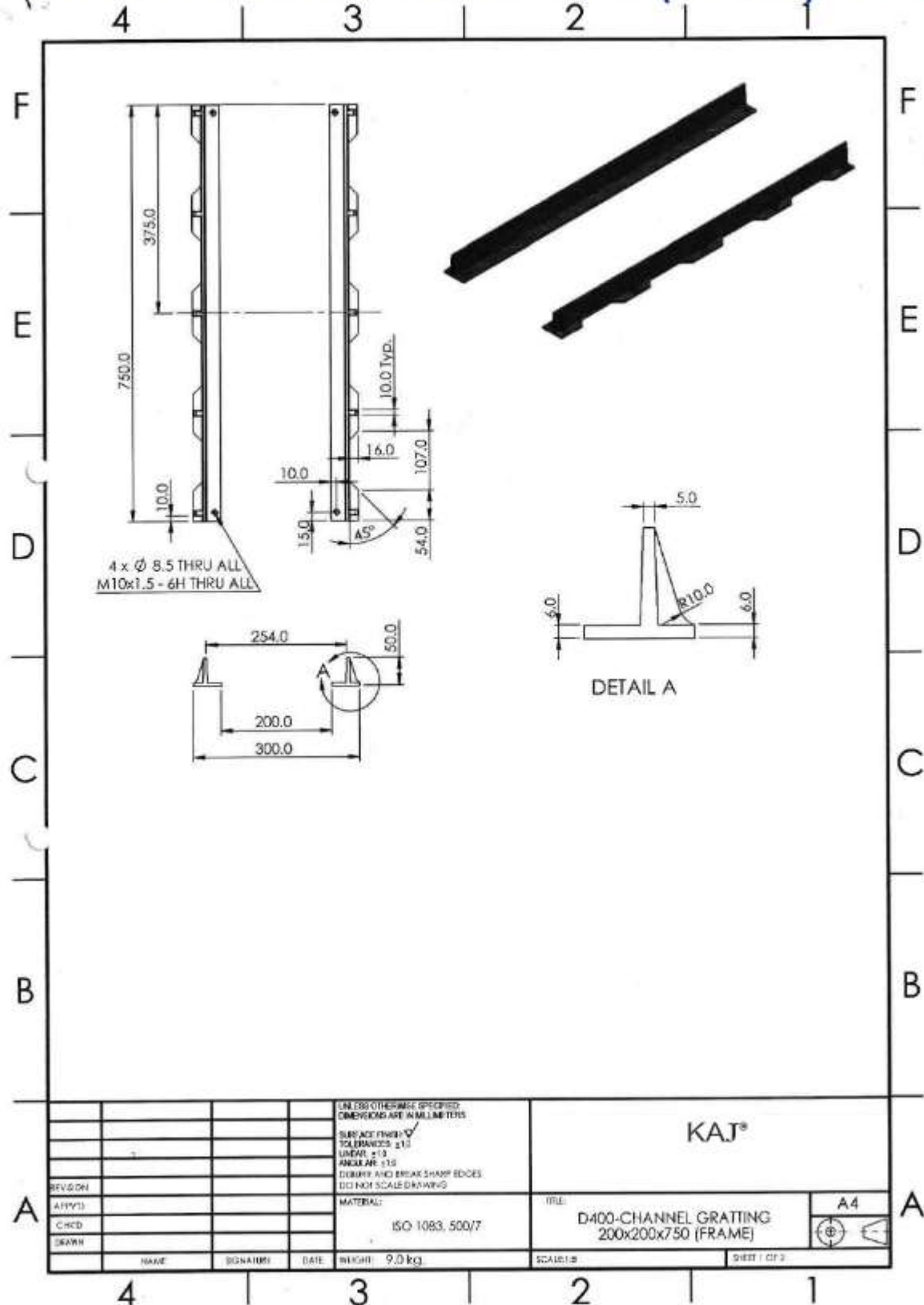


				UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS		KAJ®	
				SURFACE FINISH ✓		TRUE	
				TOLERANCES: ±1.0			
				LINEAR: ±1.0			
				ANGULAR: ±1.0			
				DEBURR AND BREAK SHARP EDGES		A4	
				DO NOT SCALE DRAWING			
REVISION				MATERIAL:		D400-CHANNEL GRATING	
APPROVED				ISO 1083, 500/7		200x200x750 (GRATE)	
CHECKED							
DRAWN							
NAME		SIGNATURE		DATE	WEIGHT: 13.0 kg	SCALE: 1:5	SHEET 2 OF 2
4		3		2		1	

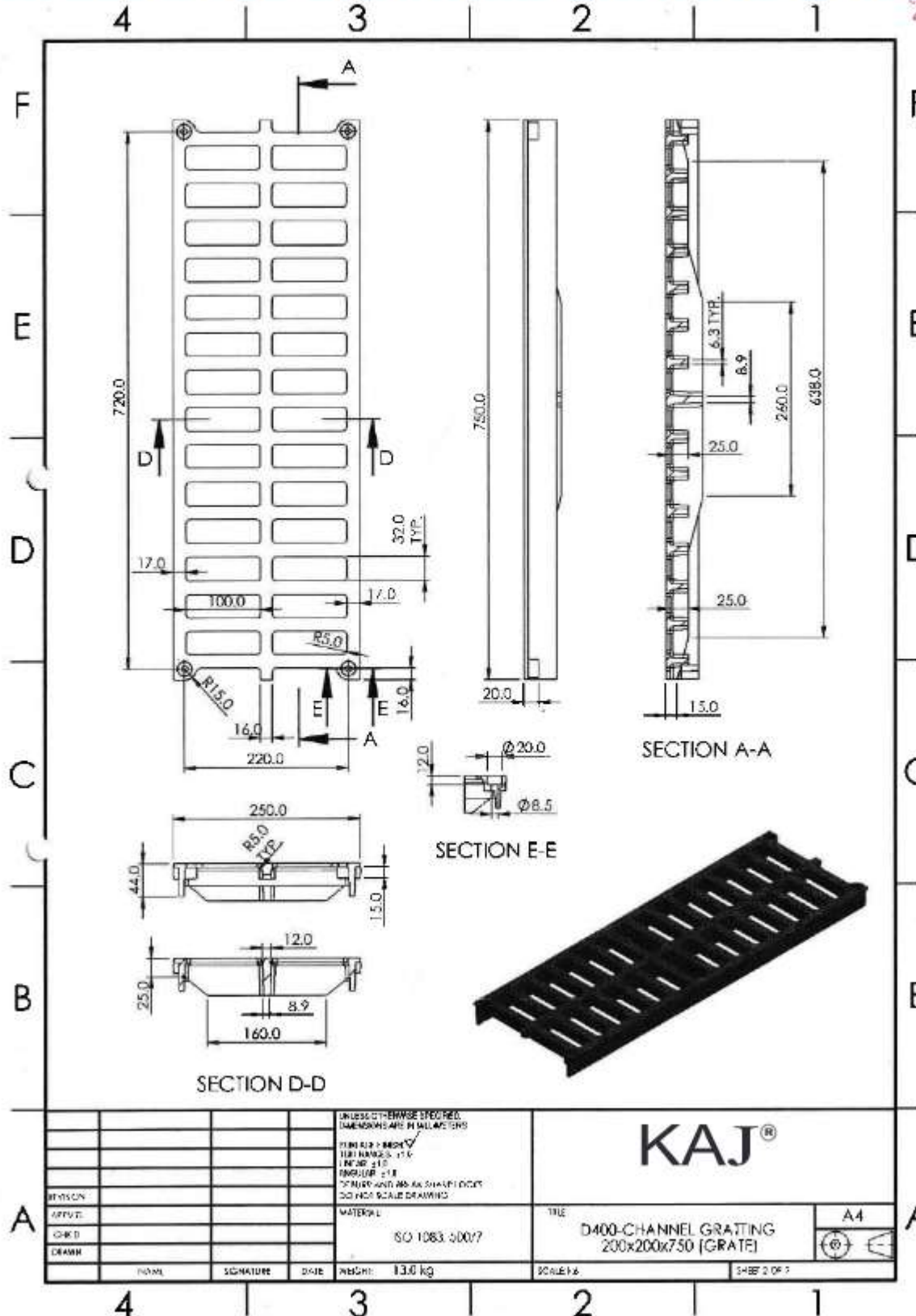
200x 200 x 750 CHANNEL GRATING (FRAME)- D 400



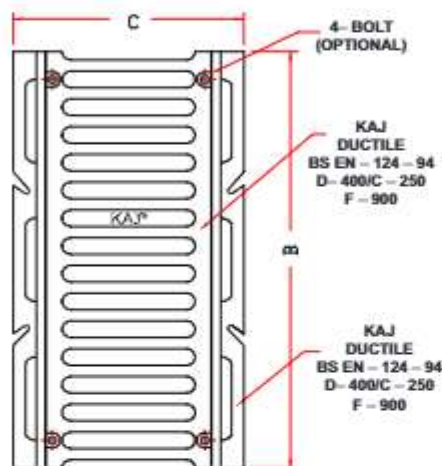
200x 200 x 750 CHANNEL GRATING (FRAME) - D-400



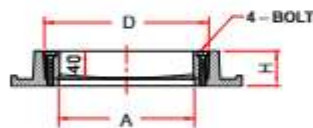
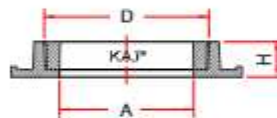
200x 200 x 750 CHANNEL GRATING D 400



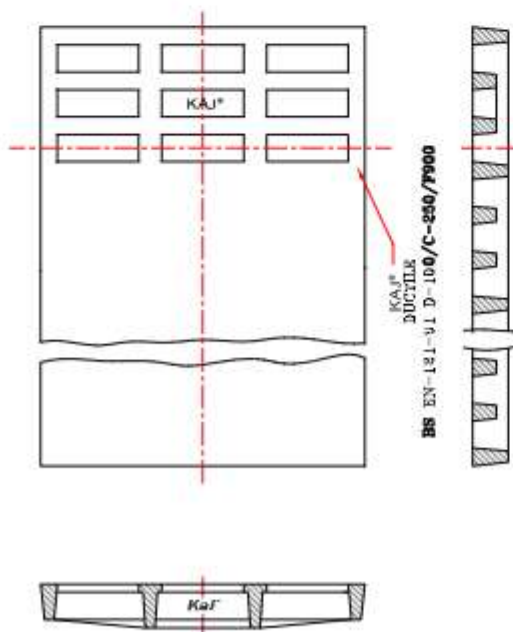
DUCTILE IRON LIGHT/MEDIUM/HEAVY DUTY CHANNEL GRATING & FRAME



PLAN



OPTIONAL



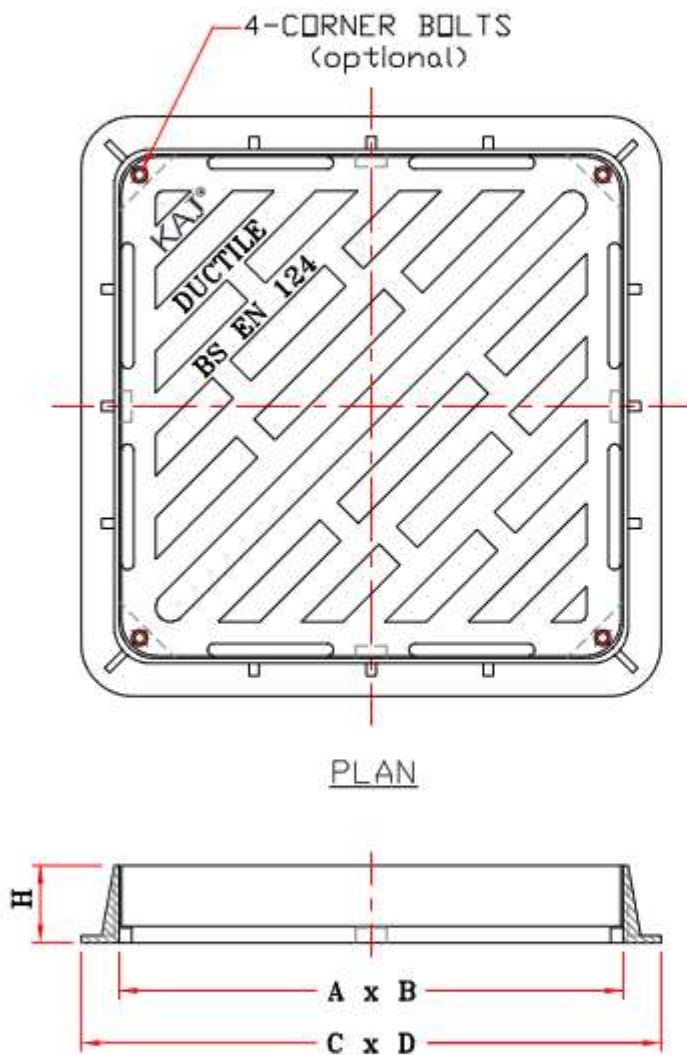
Clear Opening	Over Base	WIDTH OF GRATING DXB	DEPTH H	TOTAL WEIGHT	GRATE WEIGHT	EACH RAIL WT.	GRADE
MM.	MM.	MM.	MM.	KG.	KG.	KG.	
100X750	240X750	150X150	50	20	-	-	D-400
150X750	290X750	200X750	50	25	-	-	D-400
200X750	340X750	250X750	50	26	-	-	D-400
250X750	390X750	300X750	50	31	-	-	D-400
300X500	405X500	350X500	42	24	-	-	D-400
350X750	490X750	350X500	42	24	-	-	D-400
100X500	240X500	150X500	60	18	-	-	D-400
1000X550	1150X550	1050X550	100	130	-	-	D-400
1000X550	1150X550	1050X550	100	165	-	-	E-600
750X600	890X600	800X600	50	70	-	-	D-400
500X700	640X700	550X700	50	60	-	-	D-400
500X600	640X600	550X600	50	53	-	-	D-400
300X600	440X600	350X600	50	30	-	-	D-400
500X750	640X750	550X750	40	60	-	-	D-400
300X700	440X700	350X700	50	34	-	-	D-400
1000X750	1140X750	1050X750	50	160	-	-	D-400
1000X1000	1140X1000	1050X750	50	250	-	-	D-400
1250X1000	1390X1000	1300X1000	50	340	-	-	D-400
1500X1000	1640X1000	1550X1000	65	450	-	-	D-400
1750X1500	1890X1500	1800X1500	50	510	-	-	D-400
7500X750	7640X750	1800X1500	50	1000	-	-	D-400
300X600	440X600	350X600	50	28	-	-	B-125
350X750	490X750	400X750	50	42	-	-	D-400
450X750	590X750	500X750	50	56	-	-	D-400
450X750	590X750	500X750	50	95	-	-	F-900
300X750	440X750	350X750	50	34	-	-	D-400
900X500	1050X500	950X500	50	95	-	-	D-400



NOTES:-

1. DIMENSION:- ALL ARE IN MM
2. FINISH:- COATING WILL BE BLACK BITUMINOUS PAINT
3. MARKING:- IT WILL BE CASTED AS REQUIRED.
4. MANUFACTURED AS PER BS EN-124-94
5. MATERIAL:- ISO 1083/BS 2789 GR 500/7

DUCTILE IRON MEDIUM/HEAVY DUTY GRATE FRAME 300 x 300



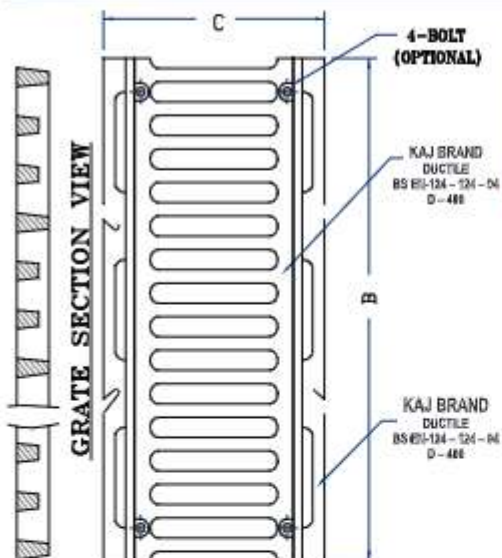
CLEAR OPENING A X B	OVER BASE C X D	DEPTH H	GRADE
MM.	MM.	MM.	
300 x 300	400 x 400	45	D-400
300 x 300	400 x 400	45	B-125
300 x 300	400 x 400	45	C-250

NOTES:-

1. DIMENSION:- ALL ARE IN MM
2. FINISH:- COATING WILL BE BLACK BITUMINOUS PAINT
3. MARKING:- IT WILL BE CASTED AS REQUIRED.
4. SPECIFICATION:- BS EN -124-94
5. MATERIAL:- ISO 1083 – 500/7

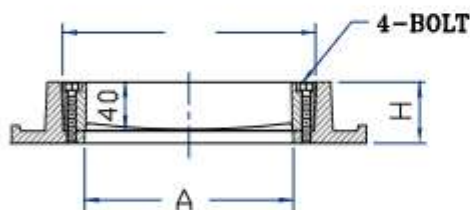
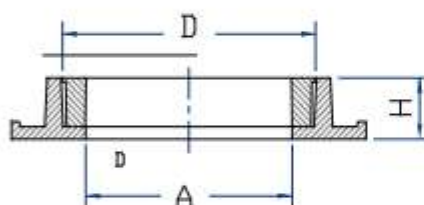


TECHNICAL DATA SHEET FOR CHANNEL GRATING

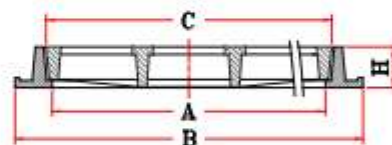
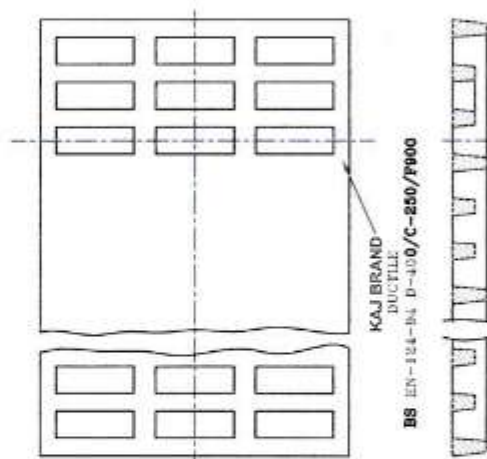


SL NO.	CLEAR OPENING AXB MM	REBATE WIDTH CXB MM	WIDTH OF GRATING DXB MM	DEPTH H MM	TOTAL WEIGHT KG	GRATE WEIGHT KG	EACH RAIL WT. KG	GRADE
A	300X750	440X750	350X750	50	34	-	-	D-400

**LOAD BEARING CAPACITY 40MT WHEEL LOAD
D-400**



OPTIONAL



SECTION VIEW

NOTES:-

1. DIMENSION :- ALL AREA IN MM
2. FINISH:- COATING WILL BE BL, BITUMINOUS PAINT
3. MARKING:- IT WILL BE CASTED REQUIRED.
4. MANUFACTURED AS PER BS EN - 124-2
5. MATERIAL:- ISO 1803 - 500/7

13	'D' & 'E' wt. changed 28 to 26 kg. & 33 to 31 kg.	22.04.13	PB	OPA
12	'N' wt. & height changed 65 to 60 kg. and 50mm. to 40mm.	18.03.13	PB	OPA
11	'F' wt. & base & height changed 25 to 24 kg. 440mm. to 404mm. & 50mm. to 42mm.	07.03.13	PB	OPA
10	ITEM - 'XH' ADD.	06.02.13	PB	OPA
9	Item - 'S' - height changed 50 to 65 mm.	24.01.13	PB	OPA
8	'Y' wt. changed 32 to 34 kg. 'C250' to 'D400'	21.07.12	PB	OPA
7	ITEM - 'Z' ADD.	18.07.12	PB	OPA
6	Item - 'F' - dth. & wt. changed & 'V', 'X', 'Y' add.	30.04.12	PB	OPA
5	Item - 'G' - wt. & grade changed 54 to 38 kg. & 'D400' to 'C250', 'X' - wt. changed 52 to 42 kg.	09.04.12	PB	OPA
4	ITEM - 'V', 'X' & 'Y' ADD.	10.02.12	PB	OPA
3	Item - 'H' add. & 'D' Wt. Changed 31 to 28 kg.	11.01.12	PB	OPA
2	ITEM - 'P', 'Q', 'R', 'S', 'T', 'U' & 'V' ADD.	19.12.11	PB	OPA
1	Item - 'H', 'I', 'J', 'K', 'L', 'M', 'N' & 'D' add.	08.12.11	PB	OPA
REVISION		DATE	R.BY	APR

TITLE:-

**DUCTILE IRON M./HEAVY DUTY
CHANNEL GRATING & FRAME**

APPROVED BY:-

TRB

DRG. NO:-

KAJ DI-012

Range of products

With an aim contribution to the reduction of whole life costs associated with the installation, operation and maintenance of municipal castings, **KAJ** Brand Building Material offer a comprehensive range of products that are designed and engineered to include standard features to help improve durability, operator safety, asset security and overall performance.



Developed through a deep understanding of the markets we serve, our range of products focus on delivering tangible benefits to meet and exceed the needs of clients, specifiers, installers and operators.

Safety

The development of a comprehensive range of hinged access covers and gully grates that help minimise the risk of injury through static lifting of ironwork. Studies have demonstrated that by using hinged solutions the required lifting is reduced by up to 50%.

Security

Through the provision of flexible security solutions to act as a deterrent against theft, unauthorized access or vandalism. Security locking can be provided by the use of standard feature such as a spring bar, or captive hinge, factory fitted security bolts and screws or by providing the facility to enable a locking kit to be fitted retrospective.

Durability

Research lead by IIT Rourke University into ironwork interacts with the road construction, determined that critical features such as the seating contact areas, the thickness of the frame and flanges and controlled manufacturing tolerances when designed, engineered and manufactured correctly combine to ensure and enhance optimum performance.

Kaj Building Material has used the results of this research to develop the Load Transfer System(LTS). This system has become a standard feature across our core ranges giving peace of mind that products are stronger, more resilient and even more durable. Products when installed using high performance resin based bedding mortars, LTS has been proven to reduce the dynamic loads subjected to the casting and the underlying structure and bedding by 50% increasing the life of the installation thus avoiding the need for frequent reinstatement.



European Standard

Section 1

Access Covers



F900 E600 GripTop D400 C250 B125

UK range



Automatic locking system



Hidden master keyhole



Semi-ergonomic hinging system

UK-range

Features

- Non-rock design
- Automatic cover security locking
- Semi-ergonomic hinging design
- LTS installation and durability features
- HA 104/09 compliant
- Sewers for Adoption 7 compliant

Options

- Badging options
Available as GripTop
- Heaviest Cover Section.
Use loop handled lifting keys.

BS EN 124 loading class	Clear opening A x B (mm)	Over base C x D (mm)	Depth E (mm)	Cover mass (kg)	Total mass (kg)
D400	600 x 600	806 x 806	101	27.3/20.7	82
D400	600 x 600	806 x 806	151	35.5/26.2	92
D400	676 x 675	880 x 830	101	27.3/20.7	98
D400	675 x 675	880 x 830	151	35.5/26.2	109

Opt-Emax range

The KAJ[®] UK range has been specifically developed to offer quicker, easier and safer access to underground services. Opt-Emax hinged covers offer many benefits over traditional lift-out covers, without compromising performance - thanks to the LTS feature within the design of the frame.

The KAJ[®]UK range is ergonomically positive and offers all the benefits associated with the E+ feature.



Opening



STEP 1 – halves of cover lift separately in sequence as marked.



STEP 2 – each cover opens to 100° for maximum access.



STEP 3 – cover is securely held at 90° to prevent accidental closing. Cover cannot be closed unless correct procedure is followed.



For products that have the KAJ UK feature the trademark is detailed in the 'At a glance' section of the product pages.



Commitment

Commitment to Quality

Committed to offering products of the highest quality and performance. As a basis for this objective the company is committed to operating strict manufacturing and quality systems. It also recognises the responsibility of the companies' workforce in meeting these quality objectives and seeks to continually improve their awareness, training and development needs.

The BSI is the worlds most recognisable 3rd party product certification mark. The majority of the products within this guide are certified by Indian / Eropean/ UAE Standards and bear the Kaj logo, giving reassurance that the product is in full compliance with the requirements of the standard under which it is designed, manufactured, tested and inspected. This internationally respected symbol of product quality accredits the following standards relevant to access covers, gratings, channel gratings and surface boxes manufactured in India.

IS EN 124

Gully tops and manhole tops for vehicular and pedestrian areas.

IS 5834 Pt 2 2011

Specifcation for small surface boxes.

ISO 9001: 2015

ISO 9001 is the most widely used International standard that provides and effective framework for an effective Quality Management System. The quality systems that govern the manufacture of the products featured in this guide are in accordance with the requirements of BS EN ISO 9000: 2008 Registration Number FM12908.

BSI Verify

The BSI Verify scheme was developed to assist companies in the selection and pre-qualification of suppliers and certifies a companies' level of performance against key criteria such as Health & Safety, Environmental controls & procedures and Quality. KAJ[®] Building Material has achieved category A status.

CE Marking

The proposed revision of EN 124 includes a requirement for CE marking as it is anticipated that once published it will become a harmonised standard which is in accordance with the Construction Products Regulations.

Kaj Brand Mark

The KAJ[®] Brand Mark attests to the compliance of products and services with the relevant standards, and is enhanced with additional specifications, to match the market's expectations as closely as possible.



Access Covers

E600/F900



Features

- Double triangular
- Non-rock design
- Frame lifting points
- LTS installation and durability features

Options

- Badging
- Security locking

Recommended for use in areas that are subjected to very heavy wheel loads such as aircraft pavements, container ports and dockside.

* Cover mass per pair.

BS EN 124 loading class	Clear opening A x B (mm)	Over base C x D (mm)	Depth E (mm)	Cover mass (kg)	Total mass (kg)
F900	602 x 602	802 x 802	150	86*	141
F900	678 x 678	878 x 878	150	99*	159
F900	1223 x 1223	1423 x 1423	150	110*	295
F900	1842 x 690	2042 x 890	150	110*	445



Features

- Double triangular
- Non-rock design
- Frame lifting points
- LTS installation and durability features
- HA 104/09 compliant
- Sewers for Adoption 7 compliant

BS EN 124 loading class	Clear opening A x B (mm)	Over base C x D (mm)	Depth E (mm)	Cover mass (kg)	Total mass (kg)
E600	610 x 610	815 x 815	150	78*	127
E600	610 x 610	815 x 815	150	78*	129

Options

- Badging Options

Recommended for use in trunk roads carrying fast-moving traffic and industrial areas subject to exceptionally heavy traffic eg. dual carriageways, docks and container areas.

* Cover mass per pair.
Use loop handled lifting keys.

Kaj UK Range

Features

- Single-piece cover
- Double seal

BS EN 124 loading class	Clear opening A x B (mm)	Over base C x D (mm)	Depth E (mm)	Cover mass (kg)	Total mass (kg)
C250	603 x 603	804 x 804	76	86	125.5

Options

- Security locking option
- Badging options

Recommended for use inside industrial buildings where a double sealed unit is essential to meet building regulations.

Use loop handled lifting keys.



Features

- Single-piece cover
- Slide-out cover design
- Single seal

BS EN 124 loading class	Clear opening A x B (mm)	Over base C x D (mm)	Depth E (mm)	Cover mass (kg)	Total mass (kg)
B125	602 x 452	752 x 602	75	33	53
B125	600 x 600	752 x 752	75	41	63
B125	902 x 902	1068 x 768	75	59	89

Options

- Security locking option
- Badging options
- Ventilated options

Medium duty, cover and frame in ductile iron.

Use loop handled lifting keys.



RECESS DOUBLE SEAL

Features

- 75mm recessed single-piece cover
- Single seal
- Four corner lifting points

BS EN 124 loading class	Clear opening A x B (mm)	Over base C x D (mm)	Depth E (mm)	Cover mass (kg)	Total mass (kg)
B125	450 x 450	558 x 558	100	27	49
B125	600 x 600	711 x 711	100	38	68

Recommended for use domestic applications eg. driveways, patio areas and featuring recessed cover for infill.

Use loop handled lifting key.



Kaj UK Range

Access Covers

D400



Inter-Ax D400-N Sealed

Options

- Seal plate options
- Badging options

Features

- Double triangular
- Non-rock design
- Push-fit seal plate compatible frame design
- LTS installation and durability features

BS EN 124 loading class	Clear opening A x B (mm)	Over base C x D (mm)	Depth E (mm)	Cover mass (kg)	Total mass (kg)
D400	600 dia	802 x 802	100	50*	85
D400	600 x 600	817 x 768	100	58*	93
D400	757 x 608	960 x 820	100	75*	111
D400	757 x 608	960 x 820	100	75*	111



Recommended for use in city roads carrying heavy traffic.

* Cover mass per pair:
AG – complete with MSG bolt down seal plate (0.5 bar pressure)
— recommended that frame is bolted to chamber.
For Be06 1 or Be38 1, if sealed product is required, seal plate must be ordered separately Hm125 D (187079) Hm124 D (187078) respectively.

Use loop handled lifting keys.



Silent Knight

Features

- Double triangular
- Non-rock design
- HA 104/09 compliant
- Sewers for Adoption 7 compliant

Options

- Badging options
- Security locking option
- Safety grid options available

Code with safety grid	SAP Code safety grids	Code with sec. screws	SAP Code sec. screws	grid & sec. screws & sec. screws	SAP code safety grid & sec. screws	BS EN 124 Loading class	Clear opening A x B (mm)	Over base C x D (mm)	Depth E (mm)	Cover mass (kg)	Total mass (kg)
CJ14 1/AP	188073	CJ14 1/BL	TBA	CJ14 1/BN	TBA	D400N	1210 x 685	1375 x 850	100	72*	267
CJ24 1/AP	TBA	CJ24 1/BR	188090	CJ24 1/BP	TBA	D400N	1825 x 685	1985 x 850	100	72*	306
CJ16 1/AP	188075	CJ16 1/BL	188076	CJ16 1/BN	TBA	D400N	1210 x 685	1375 x 850	150	72*	238
CJ26 1/AP	188083	CJ26 1/BR	188085	CJ26 1/BP	188084	D400N	1825 x 685.5	1985 x 848.5	150	72*	350
CJ34 1/AP	188067	CJ34 1/BL	206098	CJ34 1/BN	TBA	D400N	1210 x 685	1375 x 850	100	72*	269
CJ44 1/AP	TBA	CJ44 1/BR	188098	CJ44 1/BP	TBA	D400N	1825 x 685	1985 x 850	100	72*	306
CJ36 1/AP	188092	CJ36 1/BL	188093	CJ36 1/BN	TBA	D400N	1210 x 685	1375 x 850	150	72*	239
CJ46 1/AP	188101	CJ46 1/BR	TBA	CJ46 1/BP	TBA	D400N	1825 x 685.5	1985 x 848.5	150	72*	351

Recommended for use in city carrying heavy traffic.

* Cover mass per pair.
Use loop handled lifting keys.

Solid Top Manhole Covers, Sewer Cover, Drainage Cover, Telecom Cover, Earth Pit Cover, Recessed Cover, Iron Gratings, Channel Gratings, Square Gratings, Catch Basin, Tree Gratings, Hydrant Cover, Kerb Gullies

Grip Top range

On UAE roads today there are many factors which can contribute to increasing the risk of skidding to two and four wheel vehicles. One of these factors is access covers which have been worn and polished over decades of being trafficked, that when also wet can increase the risk of skidding.

A strategy established by the Department of Transport is to create a safe infrastructure as a means to improve road safety, key elements include:

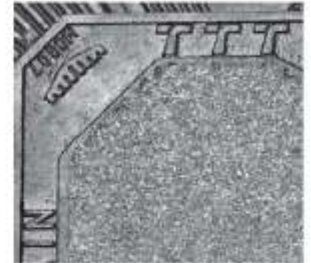
A recognition that good engineering and design reduces the risk

A focus on proactive or planned maintenance of national roads

At Megacity we recognise our role in contributing to road safety and the importance in providing durable long term solutions.

Through an exhaustive new product development programme we have been able to achieve a major breakthrough that has resulted in the development of GripTop. Fully compliant and kitemarked with the requirements of IS EN 124 GripTop features a patented factory applied maintenance free top surface which brings together high performance bonding agents and bauxite aggregate on a recessed ductile Iron Substrate.

In partnership with UAE City, large scale testing has been carried out across the city center at regular intervals over a 5 year period. Located around the inner ring road which is subjected to continuous heavy traffic a selection of installations were independently tested to determine any degradation in the skid resistance. The results have proven the long term performance of GripTop with a industry leading PSRV (Polished Skid Resistance Value) of >75 on average.



For products that have the LTS feature, the trademark is detailed in the 'At a glance' section of the product pages.



kajworld.com
Email : info@kajworld.com



Kaj UK Range

Access Covers

B125



Features

- Single-piece cover
- Single or double seal

Options

- Security locking option

Recommended for use in areas where vehicular trafficking is not expected and where a single or double seal is required.

Use I handled lifting keys.

Ductile Light Duty

BS EN 124 loading class	Clear opening A x B (mm)	Over base C x D (mm)	Depth E (mm)	Cover mass (kg)	Total mass (kg)
Single Seal					
D400	600 dia	802 x 802	100	50*	85
D400	600 x 600	817 x 768	100	58*	93
Double Seal					
D400	757 x 608	960 x 820	100	75*	111
D400	757 x 608	960 x 820	100	75*	111



Ductile Light Duty Recessed

Features

- 30mm recessed single-piece cover
- Single or double seal

Options

- Security locking option

Recommended for use in domestic applications eg. driveways, patio areas and featuring recessed cover for infill.

Use T handled lifting keys.

BS EN 124 loading class	Clear opening A x B (mm)	Over base C x D (mm)	Depth E (mm)	Cover mass (kg)	Total mass (kg)
B125	600 x 450	711 x 559	70	30	50
B 125	608 x 608	711 x 711	69	32	54
B125	607 x 455	776 x 624	72	39	65
B125	606 x 606	776 x 776	72	52	82

Kaj UK Range

Gully Grates



Section 2 Gully Grates

F900

F600

D400

C250

B125

High Performance Gratings

Growth in traffic speed and intensity coupled with ever changing climate condition is placing greater emphasis on the importance of installing high performance problem free, durable drainage solutions. This has led to Kaj Building Material developing a range of gratings that include standard features that when combined aid the reduction of future maintenance or replacement costs.

Designed with the needs of the client and operator in mind the Megacity Vantage and Megacity Max gratings combines high efficiency with the additional functional benefits of operator safety and asset security.



Kaj UK Range

Gully Grates



For products that have the E+ feature, the trademark is detailed in the 'At a glance' section of the product pages.



Kaj UK Range

Access Covers

C250/B125



Features

- Single-piece cover
- Double seal

BS EN 124 loading class	Clear opening A x B (mm)	Over base C x D (mm)	Depth E (mm)	Cover mass (kg)	Total mass (kg)
C250	603 x 603	804 x 804	76	86	125.5

Options

- Security locking option
- Badging options

Recommended for use inside industrial buildings where a double sealed unit is essential to meet building regulations.

Use loop handled lifting keys.



Features

- Single-piece cover
- Slide-out cover design
- Single seal

BS EN 124 loading class	Clear opening A x B (mm)	Over base C x D (mm)	Depth E (mm)	Cover mass (kg)	Total mass (kg)
B125	602 x 452	752 x 602	75	33	53
B125	602 x 620	752 x 752	41	41	63
B125	902 x 602	1068 x 768	59	59	89

Options

- Security locking option
- Badging options
- Ventilated options

Medium duty, cover and frame in ductile iron.

Use loop handled lifting keys.

KAJ UK Range

Gully Grates

D400

Watershed

The Watershed gully grate has been developed to meet the needs of engineers and the rigors of today's traffic loadings.

Watershed offers ease of maintenance with its pricing slot for quick opening and hinged action.

Watershed combines the benefits of both double triangular and hinged grates in one unit. Thanks to its wedge seating, Watershed provides non-rock performance and the captive hinge allows fast and easy access.

Large wedge seatings

Give the Watershed enhanced stability and long-term performance in the most arduous traffic conditions.

Captive hinge

For easy access with added security.

Single-piece unit

Hinged for easy access.

Pricing slot

For easy opening.

Large water area

Watershed has a large water area to help clear surface water quickly from roads.

Manufacturing from ductile iron, the Watershed utilizes the wedge seat principal.

The Watershed wedge seating operates in two directions to ensure the security and location of the grate within the frame.



Large wedge seatings



Captive hinge



Pricing slot



Wedge seat principle



Features

- Captive hinged grating
- Non-rock design
- Single-piece grating

Options

Security locking option

- Recommended for use in city roads carrying continuous heavy traffic, with the addition of captive hinge for ease of maintenance.

Watershed

Description	BS EN 124 loading class	Clear Opening A x B (mm)	Over base C x D (mm)	Depth E (mm)	Water way area (cm ²)	HA102 reference	Total mass (kg)
Kerb Hinging	D400	371 x 371	585 x 525	100	980	R	36
Kerb Hinging	D400	473 x 431	625 x 575	100	980	R	48
Left hand opening	D400	373 x 433	575 x 525	100	1090	R	35
Right hand opening	D400	373 x 433	575 x 525	100	1090	R	35
Left hand opening	D400	370 x 310	525 x 400	100	810	S	28
Left hand opening	D400	510 x 360	664 x 454	100	1225	R	40.4
Left hand opening	D400	600 x 450	750 x 540	100	1850	Q	53
Right hand opening	D400	600 x 450	750 x 540	100	1850	Q	53
Left hand opening	D400	600 x 450	750 x 540	100	1850	Q	53

KAJ UK Range

Gully Grates

D400



Features

- Captive hinged grating
- Non-rock design
- Single-piece grating
- LTS installation and durability features
- Automatic grating security locking
- Wedge seating security locking
- Wedge seating
- HA 102 & 104/09 compliant
- Sewers for Adoption 7 compliant

Options

Additional security locking option
Recommended for use in city roads carrying continuous heavy traffic where efficient water removal is required – with the addition of a captive hinge for ease of maintenance.

Units fitted with Installation Plus Leveling System

Megacity-Max

BS EN 124 loading class	Clear opening A x B (mm)	Over base C x D (mm)	Depth E (mm)	Waterway area (cm ²)	Ha102 reference	Total mass (kg)
D400	450 x 450	660 x 550	100	1240	R	48
D400	450 x 450	625 x 550	150	1240	R	53
D400	450 x 450	625 x 550	100	1220	R	42
D400	450 x 450	625 x 550	100	1220	R	42
D400	450 x 450	625 x 550	150	1220	R	50.6
D400	450 x 450	625 x 550	150	1220	R	50.6



Aqua Vantage

Features

- Captive hinged grating
- Non-rock design
- Single-piece grating
- Automatic grating security locking
- Wedge seating
- HA 102 & 104/09 compliant

Options

- Additional security locking option
Recommended for use in carriageway surface water drainage channels with a 1:5 V shaped profile.

BS EN 124 loading class	Clear opening A x B (mm)	Over base C x D (mm)	Depth E (mm)	Waterway area (cm ²)	Ha102 reference	Total mass (kg)
D400	450 x 450	660 x 550	100	1240	R	48
D400	450 x 450	625 x 550	150	1240	R	53
D400	450 x 450	625 x 550	100	1220	R	42
D400	450 x 450	625 x 550	100	1220	R	42

KAJ UK Range

Gully Grates

D400



Features

- Double triangular grating
- Non-rock design
- LTS Installation and durability features

BS EN 124 loading class	Clear opening A x B (mm)	Over base C x D (mm)	Depth E (mm)	Waterway	Ha102	Grating	Total mass (kg)
D400	435 x 435	587 x 587	100	1200	Q	25*	43

* Grating mass per pair



Recommended for use in trunk and city roads carrying continuous heavy traffic and in areas prone to excessive traffic clipping.



Waterway 2000

Features

- Double triangular grating
- Non-rock design
- Large waterway area
- LTS Installation and durability features

Options

Three or four flanged option
Large water area provides efficient water removal in areas subject to high water run-off eg. catchpits, motorway verges, between verges and valleys, cuttings etc.

BS EN 124 loading class	Clear opening A x B (mm)	Over base C x D (mm)	Depth E (mm)	Waterway area (cm ²)	Ha102 reference	Grating mass (kg)	Total mass (kg)
D400	607 x 607	802 x 802	100	2000	–	57*	86
D400	607 x 607	802 x 720	100	2000	P	57*	84
D400	600 x 600	705 x 820	150	2000	P	57	96
D400	600 Dia	802 x 802	100	2000	–	57	90
D400	607 x 607	820 x 820	150	2000	–	57*	96



Features

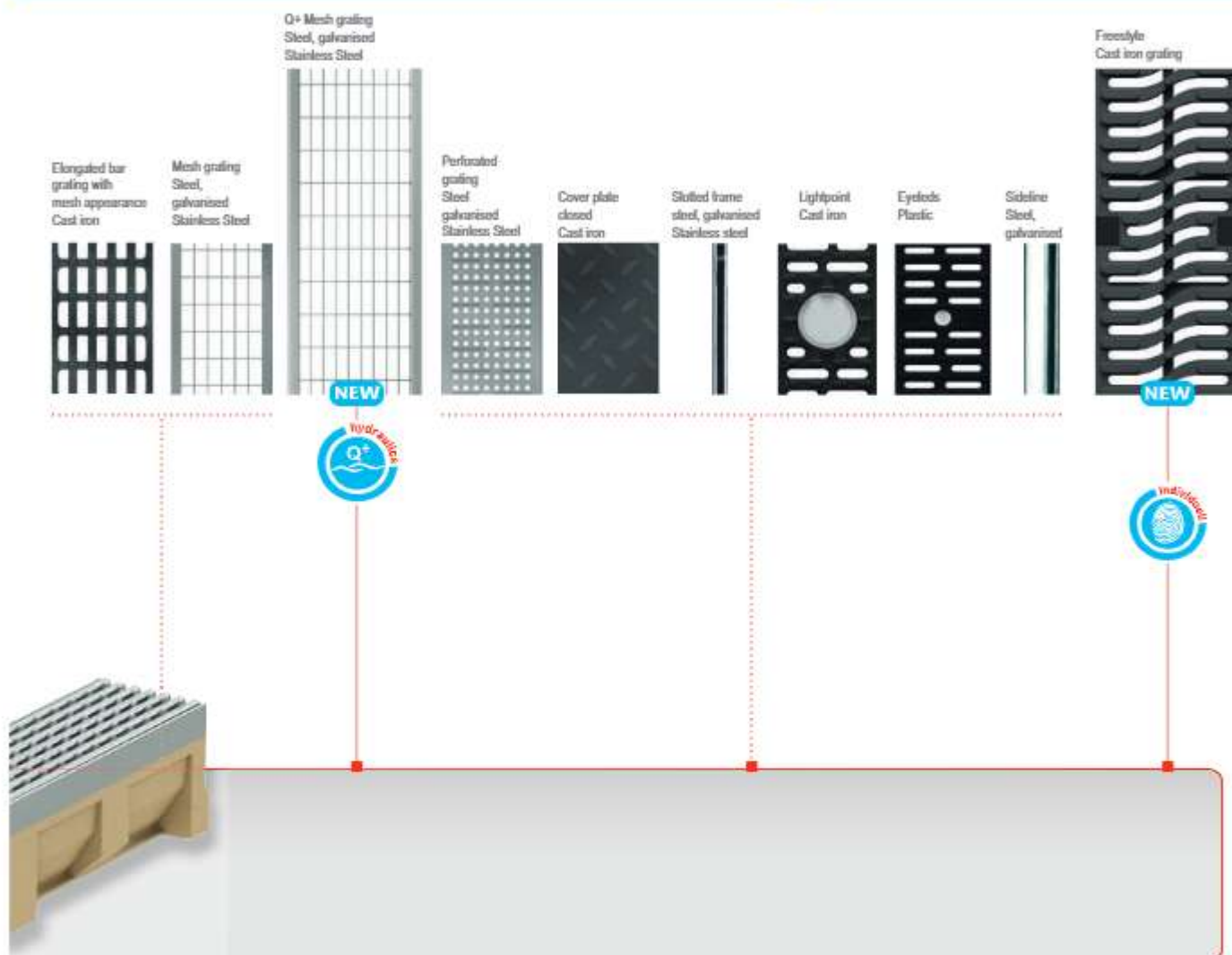
- Large waterway area
- Non-rock design
- LTS durability feature
- Multiple double triangular design

Waterway 2400

BS EN 124 loading class	Clear opening A x B (mm)	Over base C x D (mm)	Depth E (mm)	Waterway	Ha102	Total mass (kg)
D400	425 x 415 (x2)	1036 x 525	101	2400	P	84

Recommended for use in areas subjected to high water run-off including catchpits, motorway verges, cutting and between verges and valleys.

Channel Gratings



Elongated and diagonal bar grating

The simple elongated bar gratings, available in galvanised steel or stainless steel, and the diagonal bar grating made of stainless steel fit unobtrusively into all floor coverings. An elongated cast iron bar grating is available with a rustic mesh appearance.

Cast iron EN-GJS,
nominal widths 100, 150, 200, 300
and 400 mm,
load classes C 250, D 400 and E 600
optionally steel, galvanised/stainless steel,
nominal width 100 mm,
load class A 15
diagonal bar grating stainless steel,
nominal width 100 mm,
load class B 125
according to DIN EN 1433/DIN 19580
with Drainlock screwiest stop.



Elongated bar grating
Cast iron



Elongated bar grating
Galvanised steel and stainless
steel



Diagonal bar
grating
Galvanised steel





Mounting the LED elements in the slotted frame



Sideline Stainless steel



Sideline

Drainage channels disguised as narrow slots guarantee clean lines on squares and pathways, in gardens and parks. Slotted frame drainage now has a new design dimension: it holds new lighting effects. The Megacity Sideline shows a well thought-out symbiosis of drainage and LED technology.

Besides the effective design, an important advantage is the improved feeling of safety achieved through the combination of slotted frame drainage and LED technology. The linear light tracks also underscore the character of modern architecture.

A user-friendly control unit allows solutions ranging from small applications to complex integration in all building automation systems. The energy-efficient IP 67 LED lamps are highly resistant and maintenance-free.

Versions in the lengths of 1,000 and 500 mm are available. In the RGB version, a 6 m light line can be connected to one power supply.

Maintenance for the drainage channel is effected using service components. Inspection elements allow easy cleaning and fast access to the cables. With the help of the 100 mm high slotted frame, paving stones can be accurately aligned with the slots.

- made of stainless steel,
- nominal width 100 mm
- LED light colour: monochrome or RGB
- (All colours, mixed colours, colour gradations, colour changes; dynamic lighting scenes are also possible.)
- load class C 250
- according to DIN EN 1433/DIN 19580

Channel Gratings



Composite grating black
Plastic



Composite grating silver grey
Plastic

Ladder gratings made of plastic

Composite gratings represent the absolutely rust-free alternative to covers made of metal. This projects adjacent surface coatings from discoloration caused by rust transmission. Further advantages of the exceedingly robust silver grey or black plastic gratings are their colour fastness as well as their high resistance to wear and chemical agents. And they also feature "heelguard".

- plastic grating,
nominal width 100 mm
- load classes B 125 and
C 250 (black only)
- according to DIN EN 1433/DIN 19580
with Drainlock screwless stop

Channel Gratings



Practical example

5 Light points on a 2.5 m channel

Components required:

1 x basic set, 3 x extensions

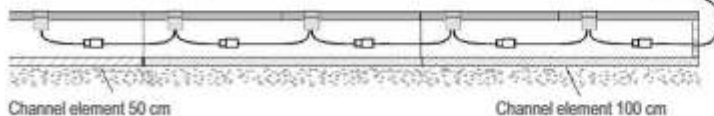
2 x channels 100 cm

1x channel 50 cm

5 x Light point cast iron gratings

2 x universal closing end caps

Protected installation location
Line 1
Supply line 3.5 m





Ladder gratings

Ladder gratings by Megacity with slot widths of up to 10mm protect your heels. You have the choice between gratings in galvanised steel, stainless steel and cast iron. The "Heelguard" ladder grating made of cast iron, with a slot width of only 5 mm, even offers high heels a stylish and safe footing at all times. This makes it ideal for public areas in cities.

Ladder grating steel, galvanised/stainless steel, nominal width 100 mm, load classes A 15 and C 250
"Heelguard" ladder grating, cast iron EN-GJS, load class C 250
ladder grating, cast iron EN-GJS, nominal widths 100, 150, 200, 300, 400 and 500 mm, load classes B 125, C 250 and D 400 according to DIN EN 1433/DIN 19580 with Dranlock screwless stop.



Ladder grating
Steel, galvanised



Ladder grating
Stainless Steel

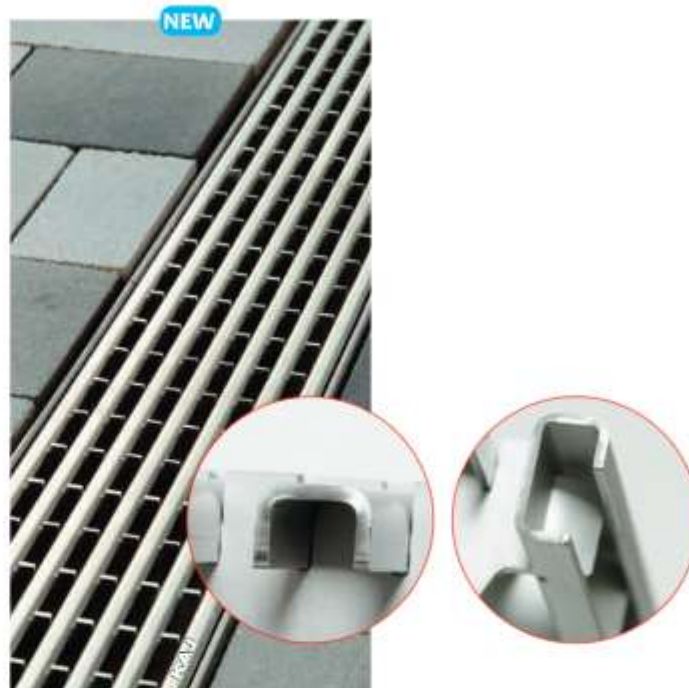
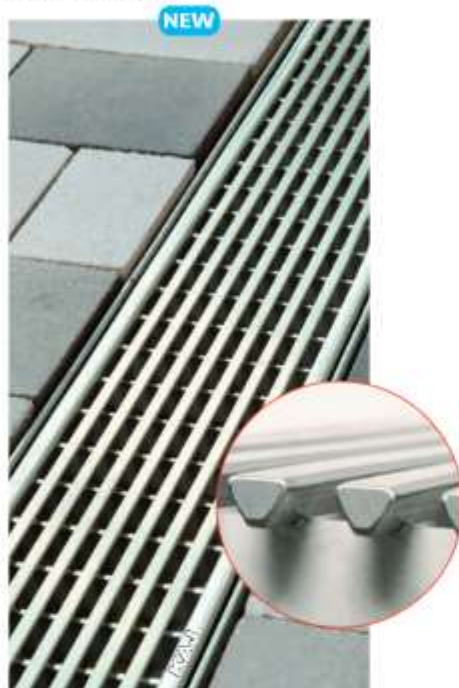


"Heelguard" ladder grating
Cast iron
Slot width only 5 mm



Ladder grating
Cast iron





Longitudinal bar grating



With the new longitudinal bar grating made off high-quality stainless steel, Megacity is emphasising design. This grating is particularly suitable for installation in front of glass facades. Thanks to its free intake area, it quickly drains off any surface water. A slot width of only 6 mm makes the grating especially anti slip – an elegant solution for line drainage on facades and also at the interface between the facade and the open area.

- grating made of stainless steel, nominal width 100 mm
- load class B 125
- according to DIN EN 1433/DIN 19580
- with Drainlock screwless stop
- pickle passivated and grinded surface

Longitudinal profile grating



The longitudinal profile grating meets the highest safety requirements and thus sets new standards in line drainage: it has been awarded the “heel-guard” seal and with slot widths of 8 mm is anti-slip. in addition, this grating, which is available in galvanised steel and stainless steel, has a slip-proof structure. The free intake area guarantees fast drainage, and the continuous U-shaped profile also ensure clear visual lines. As and additional design option, this grating can be electro-polished on demand.

- optionally steel, galvanised / stainless steel nominal width 100 mm
- nominal width 100 mm
- load class B 125
- according to DIN EN 1433/DIN 19580
- with Drainlock screwless stop
- pickle passivated and grinded surface



Cast iron



KAJ cast iron – quality for all standards

The types of cast iron used by Kaj Guss in Kaiserslautern and Aarbergen are adapted to the continuously increasing requirements through intensive innovation and development processes: Both cast iron with lamellar graphite (grey cast iron GJL) and cast iron with nodular graphite (spheroidal cast iron) are used for sewers due to their high corrosion resistance. Guss offers the optimum solution for the respective application, independent of the material.

Ductile Iron



KAJ plastic – innovative and flexible

Components made of plastic offer the greatest possible design freedom with regard to form and function. We use this potential to avoid expensive material combination and time-consuming jointing processes and to develop intelligent solutions "cast in one piece" to take their place. The plastic used by **KAJ** are characterised not only by their high breaking stresses (crushing strength) but also by their outstanding resistance to environmental influences. Simple machining options and low weight are the reasons for the outstanding user-friendliness of our plastic solutions.

Steel/stainless



Kaj steel/ stainless steel – sophisticated components

The processing of both steel and stainless steel is a core expertise of **KAJ** in the different production facilities of the **KAJ** Group worldwide. Large investment sums ensure that our production facilities are always state-of-the-art. The high qualification of our skilled workers ensure high-quality products. Our own in-house plants for surface protection and finishing are used, among other things, in the production of **KAJ** Drainlock gratings.

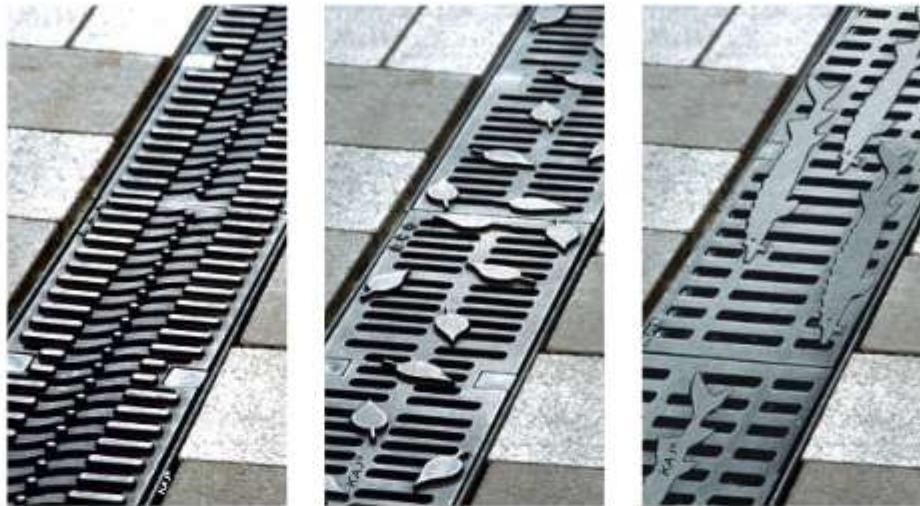
Concrete



Kaj concrete – durable and reliable

Concrete is a material that plays a decisive role in tank construction for separator and drainage technology. Kaj tanks for drainage technology are made from a highly waterproof concrete, have a very high resistance and stability. The tanks can be used as separators, pumping stations, accident (spillage) systems or special chambers and can also be equipped with a plastic coating or lining. Kaj tanks made of concrete are a durable solution for the drainage and treatment of water.

Channel Gratings



KAJ Freestyle cast iron gratings designed according to customer's wishes: Kaj Freestyle Flag, Kaj Free style Leaf, - KAJ - Freestyle Sturgeon



KAJ Freestyle with lighting using Eyelets



KAJ MANHOLE COVERS: CITY TOP, CLASSIC TOP AND MULTI TOP ROUND COVER

The Kaj manhole top program with Kaj City Top, Classic Top and Multi Top



For tomorrow's infrastructure –

Operational safety, durability and cost efficiency are the main criteria defined for high traffic infrastructure. With the **KAJ** range of manhole covers, top sections and inlet gratings, **KAJ** satisfies all specifications pursuant to DIN EN 124/E DIN 1229. Intelligent product features such as lightweight covers and gratings, bottles locks, damping frame inserts, and hydraulic, optically attractive and technically sophisticated surface designs, underpin the **KAJ** Manhole product line's high engineering standards.

Typical applications

- roads, paths, piazzas
- airports and ports
- control shafts

Benefits

- durability and reliability
- high securing level and long lifetime
- user-friendly and safe in operation

Cover features

- Classic top is secured by highest mass per unit area
- City Top and Multi Top are secured by screwless and maintenance free locking devices.
- two anti-theft devices can be installed to prevent theft of City Top

Frame features

- a cushioning insert is placed in the frame of all Kaj manhole tops
- Bituplan frames offer highest load transfer to protect mortar bedding and shaft top
- a mobile entry-facility tool is firmly fixed in Multitop Lift or Bituplan frames



maintenance-free, bottleless, traffic-proof lock made of heavy-duty wear-and-tear resistant plastic in accordance with EN 124

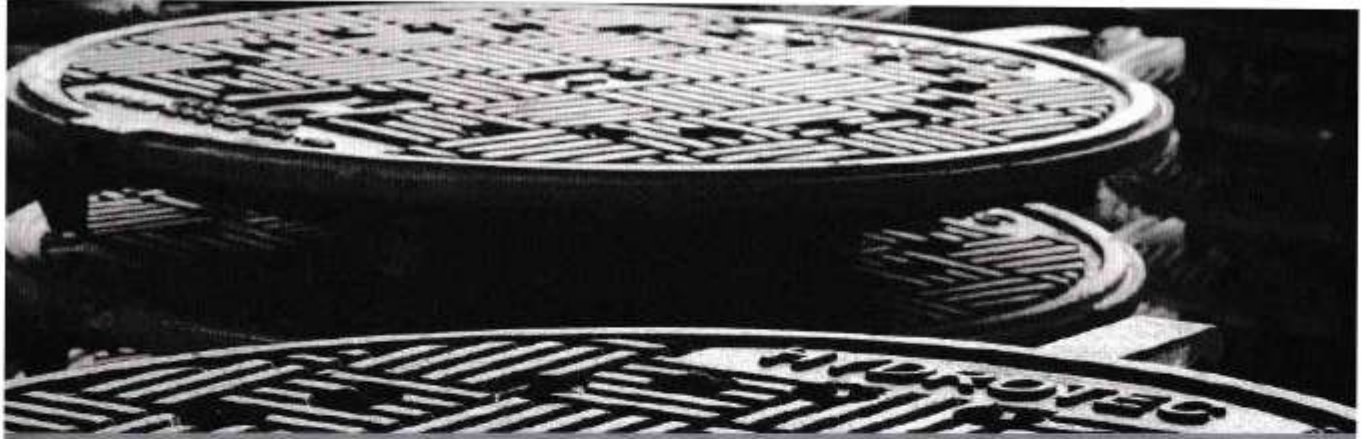
A Plus for tomorrow's infrastructure – Kaj manhole cover Multitop Plus

A dramatic increase in goods traffic is expected in the next few years. Roads remain the number one mode of transport. Kaj has adapted the Multitop Plus manhole cover to the increasing market requirements. We have retained the tried and tested weight, handling, wear and mortar joint solutions and focused on the new product advantages: Quiet. Air permeable. Slip resistant.

- Quietest by means of safe damping inserts and by mechanically machined, extremely flat bearing surfaces on the cover and frame.
- Permeable through 323 cm² ventilation cross sections for better ventilation of the sewer.
- Slip resistant through a special surface profile on the cover and frame at least R11 according to DIN 51130.



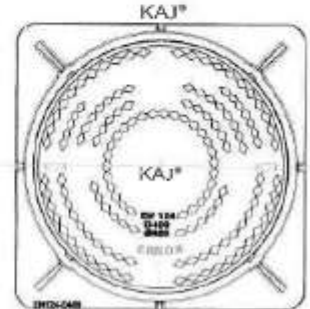
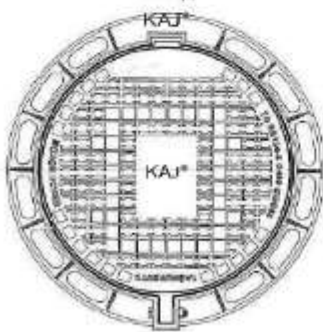
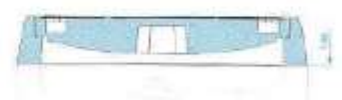
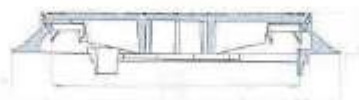
ROUND MANHOLE COVER



Ürün Kodu / Product
0225306

Ürün Kodu / Product Code
0225307

Ürün Kodu / Product
0225310



ROUND MANHOLE COVER



Ürün Kodu / Pro
0225064



130 ± 5



F 900



EN GJS 500/7

Ürün Kodu / Product
0225065



100 ± 3



F 900



EN GJS 500/7

Ürün Kodu / Product
0225066



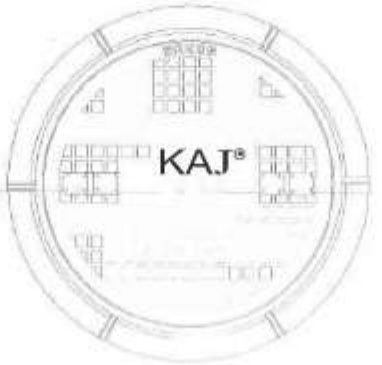
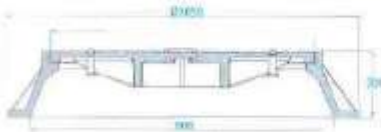
100 ± 3



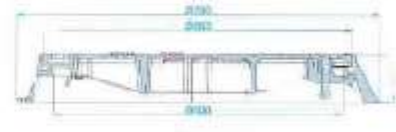
F 900



EN GJS 500/7

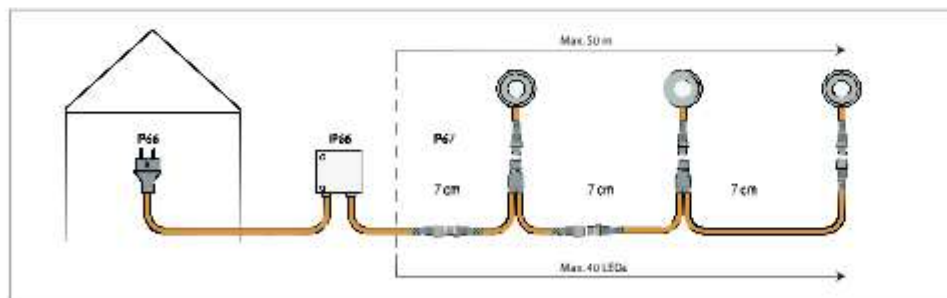


100 ± 3



F 900

Channel Gratings



Practical example

5 KAJ lightpoints on a 2.5 m channel

Components required:

2 x channels 100 cm

1 x channel 50 cm

5 x plastic gratings with Eyelet

1 x transformer

4 x splitters 30/30

2 x universal closing end caps



Stability under the highest loads

Load resistance

The high strength of this heavy duty channel system is based on many details:

- Reinforcing ribs increase side wall strength and optimise load distribution
- Special anchoring feet provide perfect stability in the concrete surround
- Integrated anti-shunt lugs to prevent longitudinal grating movement, and low center of gravity provided safety even during installation
- An abutting edge rail for paviers of 10 cm height avoids unnecessary seams
- Smooth lateral walls are free of any protrusions, permitting easy abutment of surface coverings such as pav-iro, asphalt or concrete
- powerlock boltless locking replaces bolts for easier assembly and maintenance

Award winning design

The product was awarded a German product (recognition) award for its excellent combination of form and function. A great design with many beneficial features:

- High load resistance
- High inflow profile
- Longitudinal bars preventing water by-pass
- Powerlock boltless locking
- Anti-shunt lugs to prevent longitudinal grate movement
- High quality coating to prevent corrosion
- Grate installation independent of channel direction



S 100 K channel.
Appearance and functionality optimised by a new grating design



Slim, quiet and extremely efficient

Slim solutions are not just good looking: the combination of crucial product properties make the Kaj Powerdrain a real professional all-round solution in polymer concrete. Its compelling features include unusually good hydraulic specifications, extremely high safety, and outstanding stability right up to the toughest heavy duty class F. All of these product benefits are founded on four main properties:

- reduced nominal widths
- innovative V-channel profile
- rugged sidewall construction
- integrated damping

The nominal widths differ from traditional widths: the Powerdrain was developed with internal widths of 75, 125, 175, and 275 mm. The design retains the hydraulically highly effective V-profile – an innovation launched by Kaj for line drainage solutions – and is made of high-strength polymer concrete. This not only makes the new slim Powerdrain systems extremely tough, they also have efficiencies comparable to the previously

standard 100, 150, 200 and 300 channels. The special elastomer damping between the grating and the channel, combined with the safely locked but still flexibly bedded grating, means permanent noise damping when vehicles drive over the channel.



Kaj DRAIN Power Drain
v 75/100 P to 275/300 P



◀ **slim** : V-profile for high hydraulic performance



quite : the special elastomer damping means permanent noise damping



efficient : the boltless lock and tried-and-tested installation aids boost safety and efficiency at the construction site

Highlights from the A15 – E600 range of gratings

Longitudinal bar grating

Stainless steel



Mesh grating Q*

Galvanised steel
Stainless steel



Composite grating with microgrip

Anti-slip plastic



Slotted grating

Galvanised steel
Stainless steel
Ductile iron



Cross bar grating

Stainless steel



Perforated grating

Galvanised steel
Stainless steel



Composite grating

Heelguard
Ductile iron



Composite grating

Ductile iron



optimised
intake area



slot width
max. 10 mm



according to
DIN 51130, min. R 11

KAJ[®]

kajworld.com
Email : info@kajworld.com

Solid Top Manhole Covers, Sewer Cover,
Drainage Cover, Telecom Cover, Earth Pit
Cover, Recessed Cover, Iron Gratings, Channel
Gratings, Square Gratings, Catch Basin, Tree
Gratings, Hydrant Cover, Kerb Gullies

STAINLESS STEEL



Stainless Steel

SLOT / FISSURE DRAINAGE CHANNEL

The most economical and simplest method for draining the surfaces where high flow capacity is not required. This is most ideal solution for rooms with condensate dripping from A/C systems, machinery, bakeries, dairies and in swimming pools as a separation of wet and dry areas.

The slot drainage channels are made of SS 304 / 316 with 1.5 - 2mm thick sheets. They feature inclination and can be adapted to the floor thickness. Standard length of a channel with single outlet should not exceed 10 metres. The channels exceeding 4 metres are joined by means of flanges with gasket. Slot channels are available as Mini, Maxi & Standard Mini.



Stainless Steel

FLOOR DRAIN (FD) / CLEANOUT (FCO) - STAINLESS STEEL 304/316



ABS BODY WITH
 SS SLOT GRATE 1mm THICK ON TOP
 ANTI ODOUR / FOUL SMELL TRAP
 100 X 100-2" PUSH FIT
 HORIZONTAL OUTLET

ABS BODY WITH
 SS SLOT GRATE 1mm THICK ON TOP
 ANTI ODOUR / FOUL SMELL TRAP
 100 X 100-2" PUSH FIT
 VERTICAL OUTLET



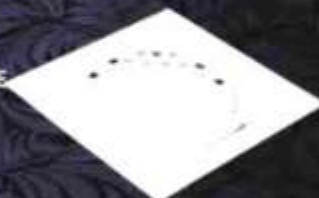
2 PCS - FRAME WITH
 SECURED SLOT GRATE
 80 X 80 - 1.5" OUTLET
 80 X 80 - 2" OUTLET

2 PCS - FRAME WITH
 SECURED SLOT GRATE
 100 X 100 - 2" OUTLET
 100 X 100 - 3" OUTLET



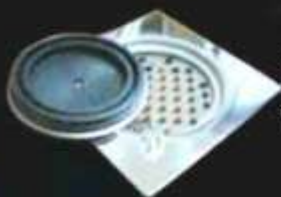
2 PCS FRAME & SECURED GRATE
 (SLOT / FLORAL)
 150 X 150 - 4" OUTLET
 200 X 200 - 5"/6" OUTLET

HINGED GRATING
 2 PCS FRAME & HINGED GRATE
 150 X 150 - 4" OUTLET



LGC - LOCKABLE GRATE & COVER
 3 PCS - FRAME, LOCKABLE GRATE
 & LOOSE COVER
 150 X 150 - 4" OUTLET

SGC - SECURED GRATE & COVER
 3 PCS - FRAME, SECURED GRATE
 (SLOT / FLORAL) & LOOSE COVER
 150 X 150 - 4" OUTLET
 200 X 200 - 5"/6" OUTLET



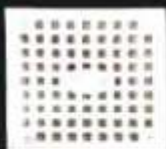
AP - AIR PROOF DRAIN
 3 PCS - FRAME, SECURED GRATE
 & AIR TIGHT COVER
 WITH NEOPRENE PUSH FIT BUSH
 150 X 150 - 4" OUTLET

SS - SIDE SLOT DRAIN
 3 PCS - FRAME, SECURED GRATE
 & SCREWABLE COVER
 150 X 150 - 4" OUTLET
 100 X 100 - 2" OUTLET



Stainless Steel

FLOOR DRAIN (FD) / CLEANOUT (FCO) - NICKEL BRONZE



NICKEL BRONZE BODY & SECURED SQUARE MESH GRATE WITH VANDAL PROOF SCREWS
100 X 100-1.5" PUSH FIT
100 X 100-2" PUSH FIT

NICKEL BRONZE BODY & SECURED SQUARE SOLID CHEQUERED TOP AIRTIGHT BY NEOPRENE GASKET WITH VANDAL PROOF SCREWS
100 X 100-1.5" PUSH FIT
100 X 100-2" PUSH FIT



NICKEL BRONZE BODY & SECURED SQUARE MESH GRATE WITH VANDAL PROOF SCREWS
150 X 150 - 4"
PUSH FIT / THREADED OUTLET
200 X 200 - 5" PUSH FIT OUTLET

NICKEL BRONZE BODY & SECURED SQUARE SOLID CHEQUERED TOP AIRTIGHT BY NEOPRENE GASKET WITH VANDAL PROOF SCREWS
150 X 150 - 4"
PUSH FIT / THREADED OUTLET



RECESSED NICKEL BRONZE FLOOR DRAIN WITH NICKEL BRONZE BODY & TILE FILL-IN WITH VANDAL PROOF SCREWS
150 X 150 - 4"
PUSH FIT OUTLET

RECESSED NICKEL BRONZE FLOOR CLEAN OUT WITH NICKEL BRONZE BODY & TILE FILL-IN WITH NEOPRENE GASKET AND VANDAL PROOF SCREWS
150 X 150 - 4"
PUSH FIT OUTLET



CAST IRON BODY DRAIN WITH CLAMPING COLLAR TO SUIT FOR 4" THREADED OUTLET
NICKEL BRONZE FLOOR DRAIN AND CLEAN OUT

BODY DRAIN OUTLET - 4" PUSHFIT

Stainless Steel

FLOOR DRAIN (FD) / CLEANOUT (FCO) • STAINLESS STEEL 304/316



ABS BODY WITH
 SS SLOT GRATE 1mm THICK ON TOP
 ANTI ODOUR / FOUL SMELL TRAP
 100 X 100-2" PUSH FIT
 HORIZONTAL OUTLET

ABS BODY WITH
 SS SLOT GRATE 1mm THICK ON TOP
 ANTI ODOUR / FOUL SMELL TRAP
 100 X 100-2" PUSH FIT
 VERTICAL OUTLET



2 PCS - FRAME WITH
 SECURED SLOT GRATE
 80 X 80 - 1.5" OUTLET
 80 X 80 - 2" OUTLET

2 PCS - FRAME WITH
 SECURED SLOT GRATE
 100 X 100 - 2" OUTLET
 100 X 100 - 3" OUTLET



2 PCS FRAME & SECURED GRATE
 (SLOT / FLORAL)
 150 X 150 - 4" OUTLET
 200 X 200 - 5"/6" OUTLET

HINGED GRATING
 2 PCS FRAME & HINGED GRATE
 150 X 150 - 4" OUTLET



LGC - LOCKABLE GRATE & COVER
 3 PCS - FRAME, LOCKABLE GRATE
 & LOOSE COVER
 150 X 150 - 4" OUTLET

SGC - SECURED GRATE & COVER
 3 PCS - FRAME, SECURED GRATE
 (SLOT / FLORAL) & LOOSE COVER
 150 X 150 - 4" OUTLET
 200 X 200 - 5"/6" OUTLET



AP - AIR PROOF DRAIN
 3 PCS - FRAME, SECURED GRATE
 & AIR TIGHT COVER
 WITH NEOPRENE PUSH FIT BUSH
 150 X 150 - 4" OUTLET

SS - SIDE SLOT DRAIN
 3 PCS - FRAME, SECURED GRATE
 & SCREWABLE COVER
 150 X 150 - 4" OUTLET
 100 X 100 - 2" OUTLET



Stainless Steel

POINT DRAINAGE SYSTEMS

MEDIUM / HEAVY DUTY INDUSTRIAL SIPHONED FLOOR DRAINS / GULLY GRATINGS

Kitchens, Laundries, Swimming Pools etc..

All Gully Grating / Floor Drain / Rodding eyes are made from SS 304 / 316. The Drain type depends on the load, amount of drained water and structural parameters. These are made of 1.5 - 3 mm SS sheets & welded in argon shield to ensure high quality of water proof joints



Stainless Steel

ROOF RAINWATER DRAINAGE SYSTEM

These are generally called Roof Drains or Rain Water Outlets. In short they are referred as RD / RWO . The construction of these are mostly in Cast Iron and Aluminium combination. In special cases these are manufactured in other metals like Stainless Steel, Nickel Bronze, Brass, Ductile Iron, Galvanized Iron etc...

These are promoted under brand names like Drainz, Hydra and Ideal



SKIRT ROOF DRAIN
SS 304 - 100 X 100
BODY & SECURED GRATE
2" SIDE BOTTOM OUTLET
Suitable for balconies
& small open areas

SCUPPER / CORNER DRAIN
CAST IRON BODY, ALUMINIUM
CLAMPING COLLAR
& SLOT GRATE
3" / 4" THREADED
/ PUSH FIT OUTLET



ROOF DRAIN DOME TYPE
CAST IRON BODY, ALUMINIUM
CLAMPING COLLAR
& DOME SLOT GRATE
4" PUSH FIT OUTLET
SS 304 GRAVEL GAIRD (OPTIONAL)

ROOF DRAIN DOME TYPE
CAST IRON BODY, ALUMINIUM
CLAMPING COLLAR
& DOME SLOT GRATE
3" / 4" THREADED OUTLET



PARKING AREA POINT DRAINAGE, MANHOLE COVER, GULLY GRATE & LINEAR DRAINAGE



PARKING AREA DRAIN
MILD / GALVANIZED STEEL
LIGHT / MEDIUM DUTY
SEDIMENT BUCKET (OPTIONAL)
200 X 200 - 4" PUSH FIT OUTLET
300 X 300 - 4" - 6" PUSH FIT OUTLET

PARKING AREA DRAIN
CAST IRON / DUCTILE IRON
LIGHT / MEDIUM / HEAVY DUTY
WATER SEALED TRAP
SEDIMENT BUCKET (OPTIONAL)
200 X 200 - 3" PUSH FIT OUTLET
300 X 300 - 4" PUSH FIT OUTLET



CAST / DUCTILE IRON MEDIUM / HEAVY DUTY



GULLY GRATE & FRAME



MANHOLE COVER & FRAME



CHANNEL GRATE & FRAME

KAJ[®]

kajworld.com
Email : info@kajworld.com

Solid Top Manhole Covers, Sewer Cover, Drainage Cover, Telecom Cover, Earth Pit Cover, Recessed Cover, Iron Gratings, Channel Gratings, Square Gratings, Catch Basin, Tree Gratings, Hydrant Cover, Kerb Gullies

ALUMINUM MANHOLE COVER



Grating

The World-class
Advanced Casting Company

GRATING

KINAM NETAL Specialize

In the manufacturer of manhole covers for noiseless type and locking type which are in harmony with surroundings. In the cast department are manufactured high cast department are manufactured high quality manhole covers by automolding line and in the machine department are produced noiseless, perfect locking and harmonious designed manhole covers by 'MCTVX650-Vertical' that is the only one in the country and Vertical turning center SKT-V110; Our focus is on expanding efforts to produce economical manhole covers which can be easily installed and are completely noiseless.



Harmony Manhole Cover (Circular)

Hot Dip Galvanizing Roller-Attached Harmony Manhole Cover (Circular)

Provides constructional efficiency because the height of the manhole base plate is constant even though the size of the manhole is various
 Free from regional limitations by using various sizes and the same material inside of the manhole cover as the surrounding paving materials

Harmony Manhole Cover (Circular)

Size	400, 648, 766, 918
Material	Nodular graphite iron (GCD 500)
Static load capacity	Over 25 tons
Customer management	Possible to inscribe every logo and letters
Place of origin marking	On the back of the cover and the top of the base plate

Application

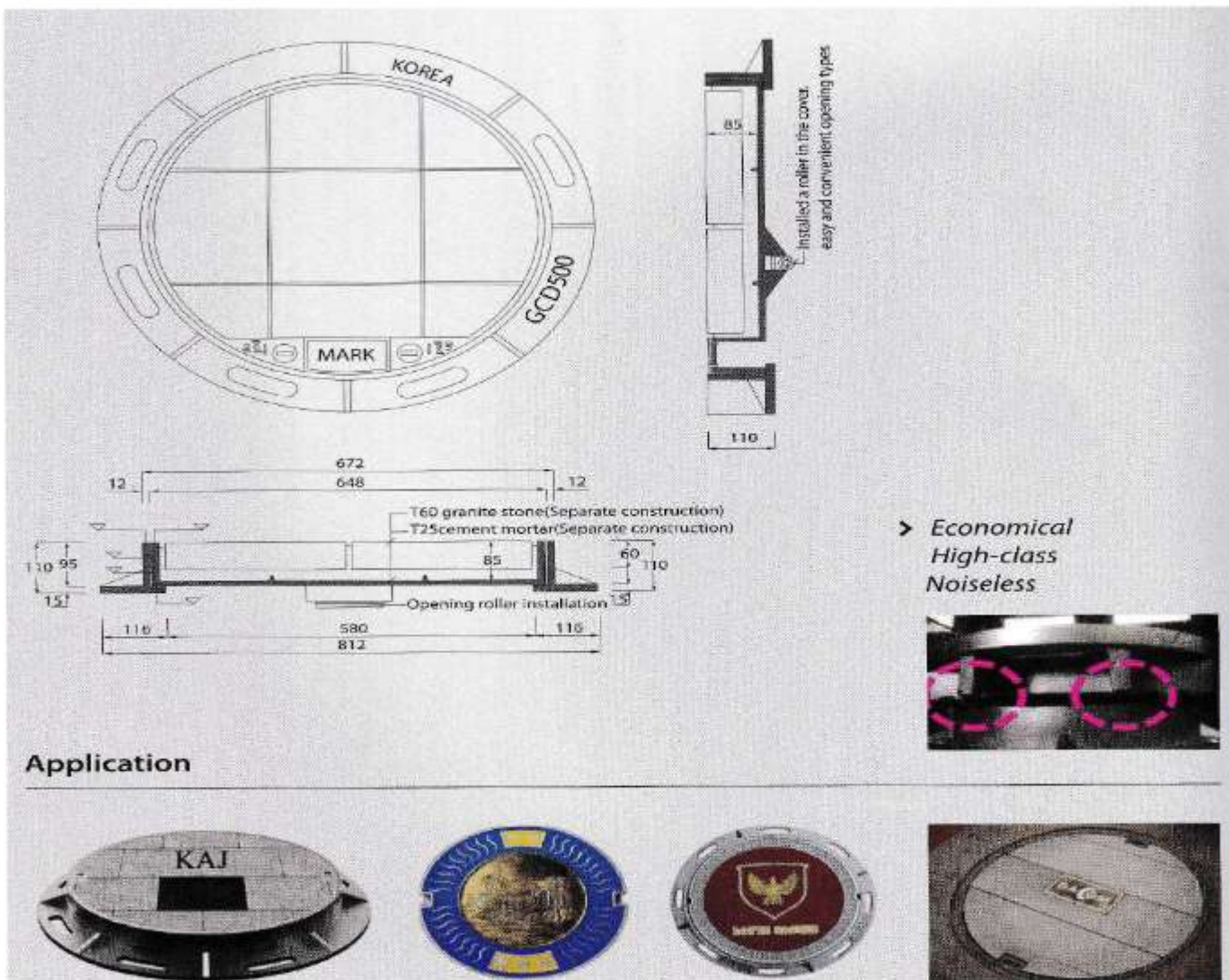
Harmonizes with urban landscape using the same cover material as the paving material and eco-friendly material
 Attaching a roller makes the manhole cover easy and convenient to open and shut



Harmony Manhole Cover (Circular)



Harmony Manhole Cover (Circular) Hot Dip Galvanizing Roller-Attached Harmony Manhole Cover (Circular)



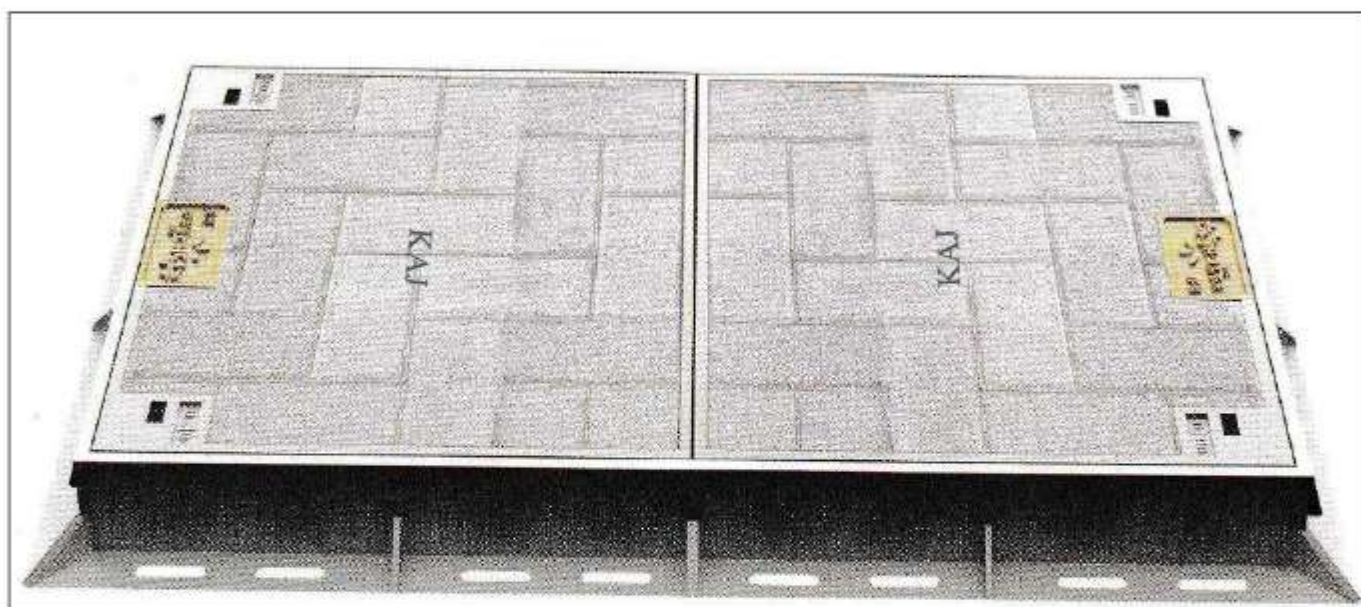
Harmony Manhole Cover (Circular)



Harmony Manhole Cover (Circular)

Application

Harmonizes with urban landscape using the same cover material as the paving material and eco-friendly material Attaching a roller makes the manhole cover and convenient to open shut



Colored Harmony Manhole Cover

Colored harmonizing manhole cover

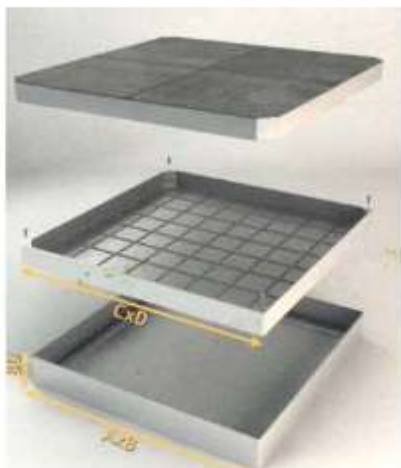
Size	800x800x60 ✓ (648), Rainwater, Wastewater
Material	Nodular Graphite iron (GCD 500), Silica sand (including glue)
Static load capacity	Over 20 tons
Customer management	Possible to inscribe every logo and letters
Place of origin marking	On the back of the cover and the top of the base plate



* product of a different company



Filling Aluminum Manhole Covers B125



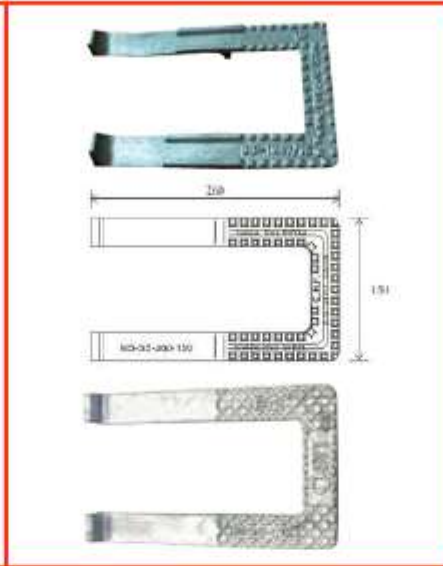
Codice Code	Classe Class	Dimensioni AxB Dimension AxB cm	Dimensioni CxD Dimension CxD cm	Altezza Height cm
200	B125	20x20	12.8x12.8	4
300	B125	30X30	22.8X22.8	4
300340	B125	30X40	22.8X32.8	4
400	B125	40X40	32.8X32.8	4
400500	B125	40X50	32.8X42.8	4
500	B125	50X50	42.8X42.8	4
500600	B125	50X60	42.8X52.8	4
600	B125	60X60	52.8X52.8	4
700	B125	70X70	62.8X62.8	4
800	B125	80X80	72.8X72.8	4
900	B125	90X90	82.8X82.8	4
1000	B125	100X100	92.8X92.8	4

FOOT STEP

DUCTILE IRON FOOT STEP



CAST IRON FOOT STEP



MILD STEEL FORGED FOOT STEP



PVC Steel Reinforce Foot Steps

Step Safe is a uniquely designed manhole safety step (also known as footrest) made from polypropylene and steel composite. It offers superior resistance to corrosive environments characteristic of sanitary sewers. In addition, the unique slip resistant design and bright colours provide added safety to the cleaning personnel.

Step Safe suitable for sewerline manholes, overhead water tanks and service shafts of multistorey building.

Step Safe is available in five different sizes/shapes/colour.

Specifications:

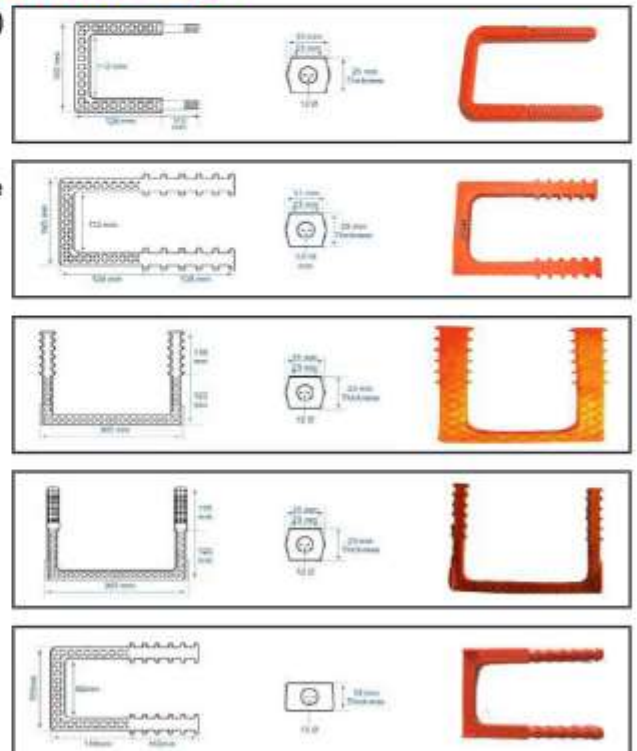
Polypropylene - 3mm thick copolymer polypropylene conforming to ASTM D-4101/IS 1786

Steel - 10/16 mm diameter steel bar conforming to IS 1786

Load Requirement - Easily exceeds 225 kg as per IS-5455

Surface Finish - 2mm tread on top surface by ribbing or chequering.

Application - Sewer Line Manhole over head tank.



Specifications: Polypropylene element conforming ASTM D-4101, Injection moulded over, reinforced steel bar Indian Standard Specification 1786 grade FE-415 steel (Options: 12 mm dia steel or 16 mm dia galvanised steel) meets load requirements of 225 kgs. As per Indian Specification-5455.

Installation : Step can be cast - in place. **Megacity** Safe Step can resist capacity over 500 kgs approx.

Longevity : Polypropylene is known for its high resistance capacity for all types of corrosive environments normally found in sewers.

Safety Features : This step with Anti Skid Design, High Stability, Fire & Rust Proof.

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Cover, Recessed Cover, Iron Gratings, Channel
Gratings, Square Gratings, Catch Basin, Tree
Gratings, Hydrant Cover, Kerb Gullies

OUR PLANT

