



JPK METALLICS PVT. LTD.

Profile

JPK Metals Pvt. Ltd. was originated in 2005, when Mr. Kailash Pat Agarwala, with over 3 decades of experience in the foundry business, spread his manufacturing base by setting up KPA Securities Pvt. Ltd., a Ductile Iron castings manufacturing unit, in Uluberia, Howrah (West Bengal).

This was a bold and pioneering step forward since only a few Indian companies had until then ventured into manufacturing of Ductile Iron castings. The early mover advantage has yielded rich dividends for the company, which today can boast of being one of the highest producer of sanitary castings and ranks amongst the top manufacturers of Ductile Iron castings in West Bengal.

From the early days of being a hand-moulding foundry, the company today is a modern and fully equipped foundry having machine moulding processes and semi automatic sand plant. It has also extended its products base to Pipe Fittings and Engineering Castings.

KPA Securities Pvt. Ltd. is today JPK Metals Pvt. Ltd., where every stage of production is supervised under strong quality systems and where regular up-gradation and product development is the in-house motto, to ensure that the company never falters in its commitment to give the best to the most discerning of buyers in every market worldwide.

Company Profile

| | |
|------------------------------|--|
| Nature of Business | Manufacturer, Supplier & Exporter |
| Year of Establishment | 2005 |
| Total Area | 1, 50,000 sq. ft. |
| Total Covered Area | 30,000 sq. ft. |
| Casting Capacity | Installed Capacity = 6000 Metric Tons Per Annum |
| Pattern Shop | For maintenance of existing patterns and for checking of new patterns |
| Sand Plant | A completely automatic sand plant with intensive sand mixer and plant capacity-15 Metric Tons Per Hour |
| Melting Facilities | Induction Furnace - 650KW-Dual Track (Capacity - 800 Kg per batch) |
| Moulding Facilities | Disa make Moulding Machines (ARPA 450 & ARPA 900) and Pneumatic Moulding Equipments |
| Finishing Facilities | Shot Blasting Machine, Angle Cutter, Table Grinder etc. |
| Painting Facilities | Dip painting and Spray painting machine |
| Machining Facilities | In house machining arrangements. |

Product Range

JPK Metallica is capable of producing all types of Ductile Iron Castings of weight ranging from 0.100 kg to 500Kg.

Our Product Range Includes:

- [Manhole Covers and Frames](#)
- [Surface Box](#)
- [Iron Gratings](#)
- [Pipe Fittings & Accessories](#)
- [Engineering Castings](#)

Testing Facilities

A complete Chemical Laboratory, Sand Testing Equipment, Microprocessor based Carbon & Silicon and Temperature Analyzer of liquid metal.

- Universal Testing Machine – 200KN
- Hardness Testing Machine
- Metallurgical Microscope
- Load Testing Machine – Capacity: 1000KN
- Complete range of dimensional inspection tools

Industries, we serve

Our wide range of products cater to the requirements of:

- Sanitation
- Agricultural and Irrigation
- Construction
- Railways
- Government Departments
- Semi-government Agencies
- Private Companies

Our Clients

We have some big name which are the regular customers from old time like Tata Metaliks, Electrosteel, Lohia Starlinger etc. Our major market include European Countries (Belgium, Denmark, Italy), U.S.A, South Africa and Middle East Countries (UAE, Bahrain, Qatar).

Manpower Resources

| | |
|--|-----|
| Total no. of Technical & Administrative Staff | 30 |
| Total no. of Workmen | 150 |

Certification and Accreditation

JPK Metallica Pvt. Ltd. is a professionally managed company maintaining its Quality Management System as per ISO 9001:2008 and it is certified by DET NORSKE VERITAS (DNV).

| | |
|----------------------|--|
| Our Objective | To manufacture quality products at the most competitive price. |
| Our Aim | To achieve full satisfaction of the customer. |
| Our Brand | JPK / KAJ |

TECHNICAL SPECIFICATION

The products of JPK are Compliant to various specifications like BS-497-76, BS.EN-124, ASTM, DIN, AWWA , AUSTRALIAN OR EQUILENT. These products could be briefly classified and graded as per specification based on end use as below.

A) Load test classification BS-497-76

| Manhole Covers & Frames | | Road Gully Gratings & Frames | |
|-------------------------|---|------------------------------|--|
| Grade | Description | Grade | Description |
| A | Manhole Covers and frames for use in carriageways carrying vehicles with wheel loads of up to 11.5 tones. For use in carriageways carrying fast-moving vehicles, such as motorways, trunk roads and other primary routes, feature such as three point suspension or machined settings. Grade D products are tested under a minimum 40 tones load. | A1 | Gully Gratings and frames capable of bearing wheel loads of up to 11.5 tones, for use in carriageways. Incorporating a permanent “non-rock” design feature such as a three points suspension or machined settings. |
| | | A2 | Hinged gully gratings and frames capable of bearing wheel loads of up to 11.5 tones, for use in carriageways. |
| B1 | Manhole covers and frames capable of carrying wheel loads of up to 5 tones, for use in carriageways carrying relatively slow-moving, normal commercial vehicles, such as cul-de-sacs and minor residential road. Incorporating a permanent “non-rock” design feature such as three points suspension or machined settings. | B | Hinged gully gratings and frames capable of bearing wheel loads of up to 5 tones, for use in carriageways carrying relatively slow-moving normal commercial vehicles, such as cul-de-sacs and minor |
| B2 | Sealed Manhole covers and frames capable of bearing wheel loads of up to 5 tones, for use in areas which vehicles would only have occasional access such as pedestrian precincts. | | |
| C | Sealed inspection covers and frames for use in areas inaccessible to motor vehicles. | | |
| D | Manhole covers and frames capable of bearing wheel loads of up to 11.5 tones. For use in carriageway carrying fast-moving vehicles, such as motorways, trunk roads and other primary routes. Incorporating a permanent “non-rock” design feature such as three points suspension or machined settings. Grade D products are tested under a minimum 40 tones load. | | |

B) Load test classification BS. EN-124.

| Manhole Covers & Frames and Gully Gratings | |
|---|--|
| Class | Description. |
| A 15 | Access covers and gratings capable of withstanding a 1.5 tones test load. For use in areas where only pedestrians have access. |
| B 125 | Access covers and gratings capable of withstanding a 12.5 tones test load. For use in car parks and pedestrian areas where occasional vehicular access is likely. |
| C 250 | Access covers and gratings capable of withstanding a 25 tones test load. For use in areas where not extending more than 500 mm from the kerb face into the carriageway. All units to be either non-rock or silent in operation. |
| D 400 | Access covers and gratings capable of withstanding a 40 tones 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. |
| E 600 | Access covers and gratings capable of withstanding a 60 tones test load. For use in areas where heavy wheel loads are imposed such as loading areas, docks or aircraft pavements. |
| F 900 | Access covers and gratings capable of withstanding a 90 tones test load. For use in areas where very heavy wheel loads are imposed such as aircraft Pavements. |

C) Test Load specification.

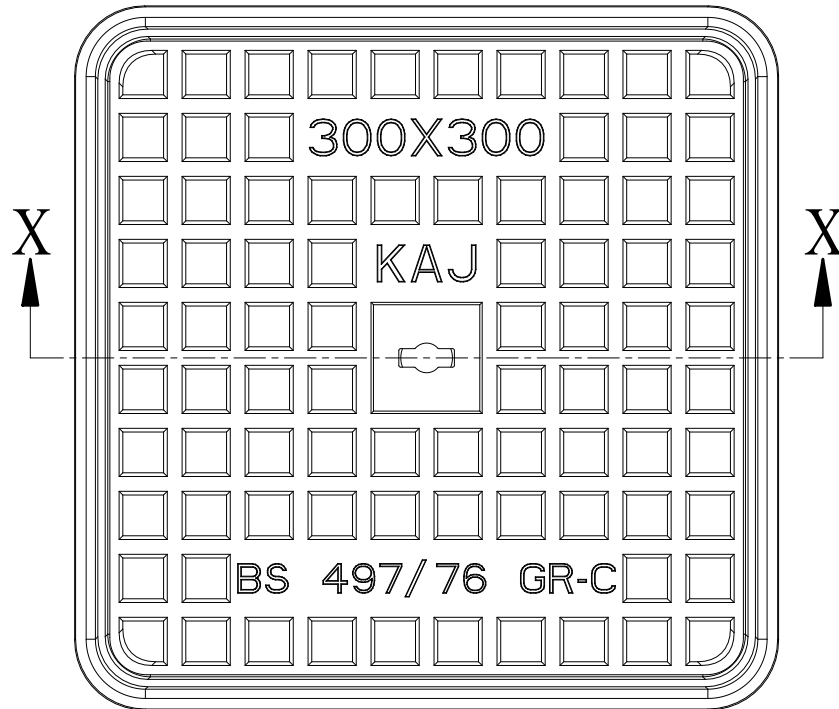
The relevant specification provides for carrying out load test, method of load

| Product Grade (Loading) | Test Load in kN | | Block size in mm for Load Test | |
|--------------------------------|------------------------|---------------------|---------------------------------------|---------------------------|
| BS-497:1976 | | | | |
| Loading | Grey Iron | Ductile Iron | Manhole Covers | Kerbs and Gratings |
| A | 350 | 235 | 300 mm Dia | 300 x 235 mm |
| B | 150 | 100 | 300 mm Dia | 300 x 235 mm |
| C | 10 | 7 | 300 mm Dia | -- |
| D | 400 | 267 | 250 mm Dia | -- |

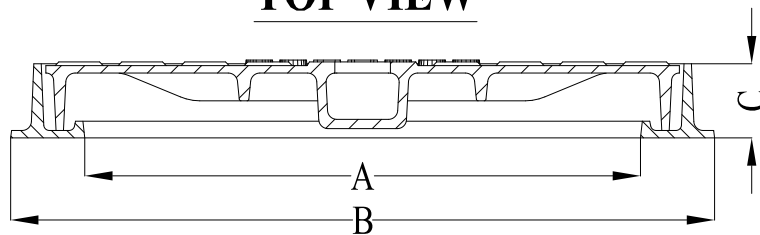
Test, size of block dia to be applied is specified as under.

| BS-EN-124 | | | | |
|------------------|--|--------------------------|---------------|--------------|
| Loading | Test Load in kN Grey and Ductile Iron | Clear Opening(mm) | | |
| | | 300 to 1000 mm | 200 to 300 mm | Below 200 mm |
| A 15 | 15 | 250 | 250 x 150 | 150 |
| B 125 | 125 | 250 | 250 x 150 | 150 |
| C 250 | 250 | 250 | 250 x 150 | 150 |
| D 400 | 400 | 250 | 250 x 150 | 150 |
| E 600 | 600 | 250 | 250 x 150 | 150 |
| F 900 | 900 | 250 | 250 x 150 | 150 |

3. Manufacturer Dimensional drawings




TOP VIEW

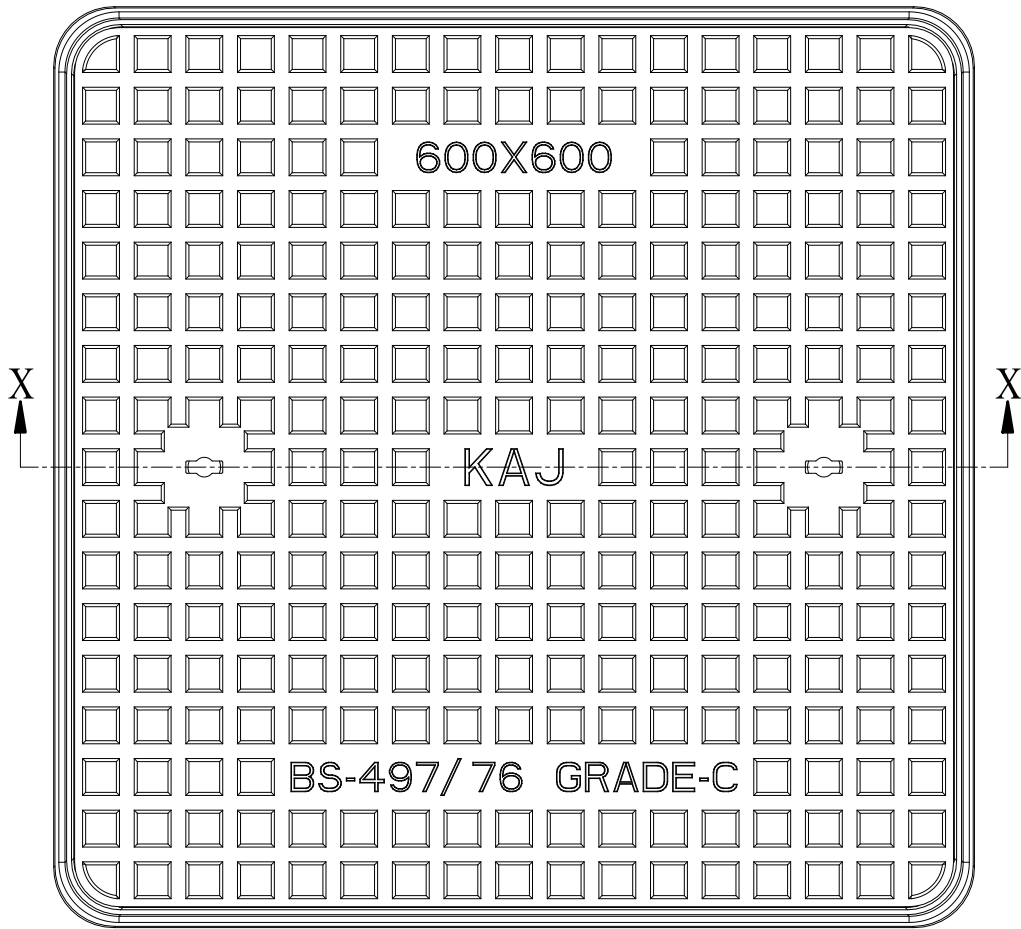


SECTION (X-X)

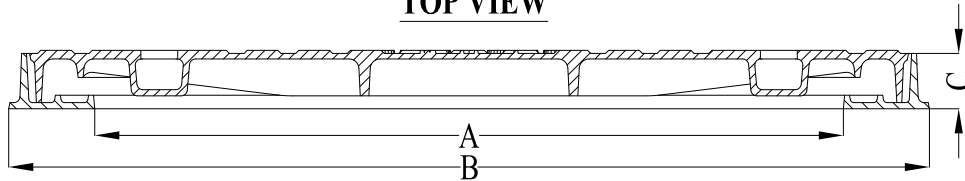
ALL DIMENSION ARE IN MM

| | | | | |
|----------|---------------|-----------------------------|-------------------------|-----------------|
| GRADE | C | CLEAR OPENING(A) | OVER BASE(B) | DEPTH(C) |
| LOADING | 10KN | | | |
| MATERIAL | CAST IRON | 300X300MM. | 380X380MM. | 40MM. |
| COATING | BLACK BITUMEN | | | |
| STANDARD | BS 497/76 | | | |

| | | | | | |
|-------------------|-----------|-----------------|------------|--|----------------------------------|
| DRAWN BY | K.MANNA | ISSUE | | JPK METALLICS PVT. LTD. OFFICE:- " Bentic House" P-15 Bentic Street , Kolkata - 700 001, INDIA. FACTORY:- Vill- Amraberia, Uluberia, Howrah, INDIA. | |
| CHECKED BY | A.K.GHOSH | DATE | 14-10-2017 | | |
| Code | JPK-30SSC | REVISION | 000 |  | |
| DIMENSION | MM | SCALE | NTS | TITLE | 300X300X40 SINGLE SEAL SOLID TOP |
| | | | | | 30X30 SSST C.I.(GR-C) |




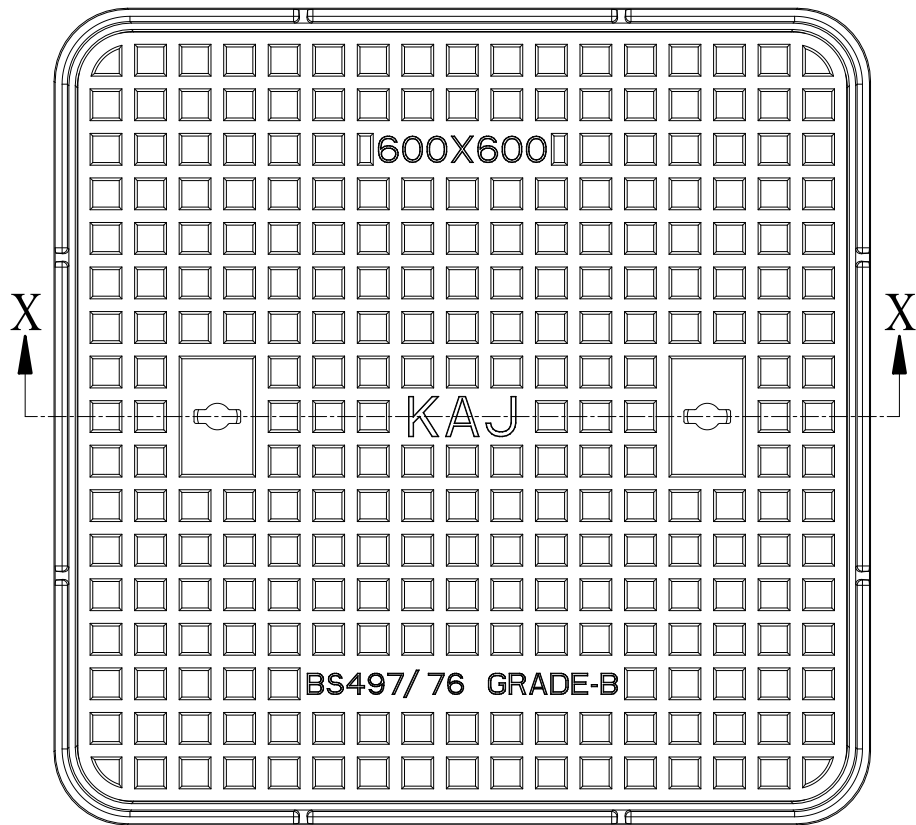
TOP VIEW



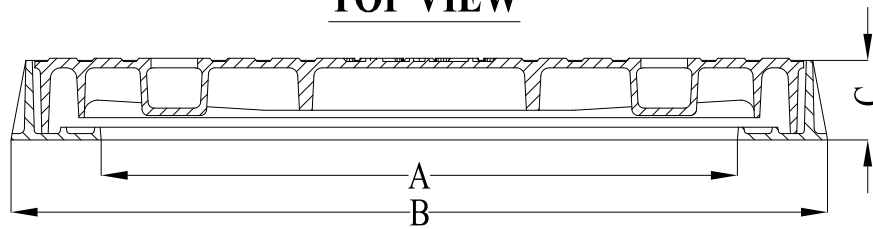
SECTION (X-X)

ALL DIMENSION ARE IN MM

| | | | | | |
|------------|---------------|-----------------------------|--|---|------------|
| GRADE | C | CLEAR OPENING(A) | OVER BASE(B) | DEPTH(C) | |
| LOADING | 10KN | | | | |
| MATERIAL | CAST IRON | | | | |
| COATING | BLACK BITUMEN | | | | |
| STANDARD | BS 497/76 | | | | |
| | | 600X600MM. | 740X740MM. | 45MM. | |
| | | | | | |
| DRAWN BY | K.MANNA | ISSUE | JPK METALLICS PVT. LTD. OFFICE:- " Bentic House" P-15 Bentic Street , Kolkata - 700 001, INDIA. FACTORY:- Vill- Amraberia, Uluberia, Howrah, INDIA. | | |
| CHECKED BY | A.K.GHOSH | DATE | | | 13-11-2017 |
| Code | JPK-60DSC | REVISION | 000 | <div> JPK METALLICS PVT. LTD.</div> | |
| DIMENSION | MM | SCALE | NTS | | |
| | | TITLE | 600X600X45 DOUBLE SEAL SOLID TOP | | |
| | | DRG. NO. | 60X60 DSST C.I.(GR-C) | | |




TOP VIEW

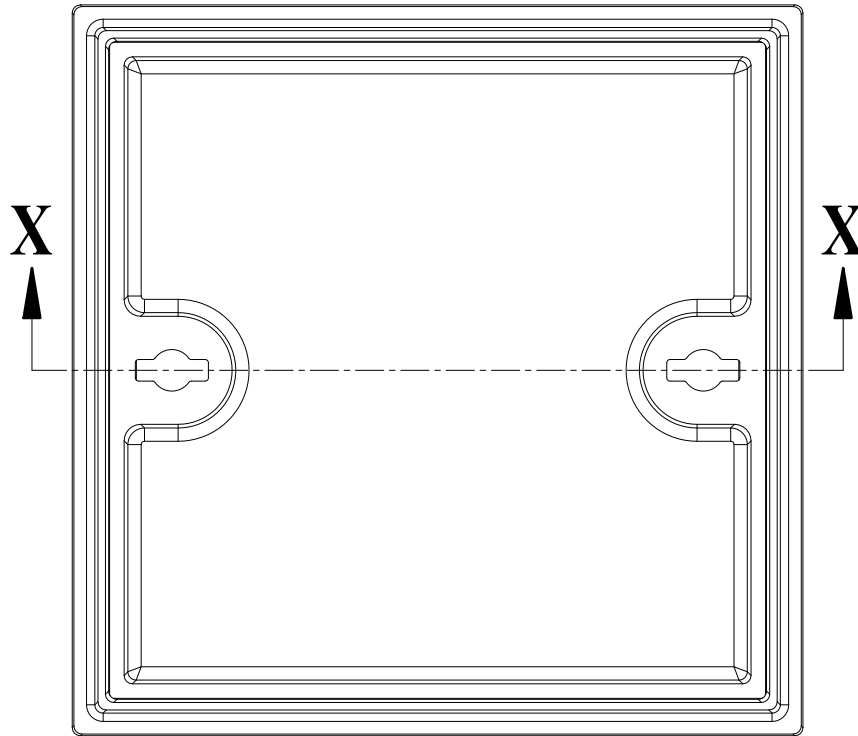


SECTION (X-X)

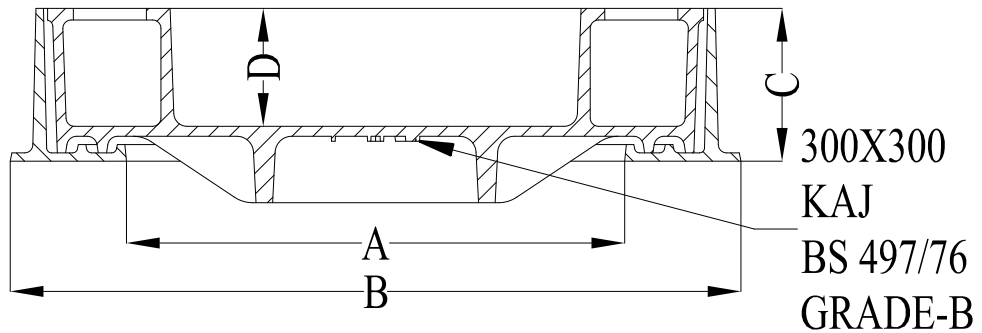
ALL DIMENSION ARE IN MM

| | | | | |
|----------|---------------|-------------------|----------------|-----------------|
| GRADE | B | CLEAR | OVER | DEPTH(C) |
| LOADING | 150KN | OPENING(A) | BASE(B) | |
| MATERIAL | CAST IRON | 600X600MM. | 770X770MM. | 75MM. |
| COATING | BLACK BITUMEN | | | |
| STANDARD | BS 497/76 | | | |

| | | | | | |
|-------------------|-----------|-----------------|------------|--|----------------------------------|
| DRAWN BY | K.MANNA | ISSUE | | JPK METALLICS PVT. LTD. OFFICE:- " Bentic House" P-15 Bentic Street , Kolkata - 700 001, INDIA. FACTORY:- Vill- Amraberia, Uluberia, Howrah, INDIA. | |
| CHECKED BY | A.K.GHOSH | DATE | 21-09-2017 | | |
| Code | JPK-60DSB | REVISION | 000 |  | |
| DIMENSION | MM | SCALE | NTS | TITLE | 600X600X75 DOUBLE SEAL SOLID TOP |
| | | | | DRG. NO. | 60X60 DSST C.I.(GR-B) |



TOP VIEW




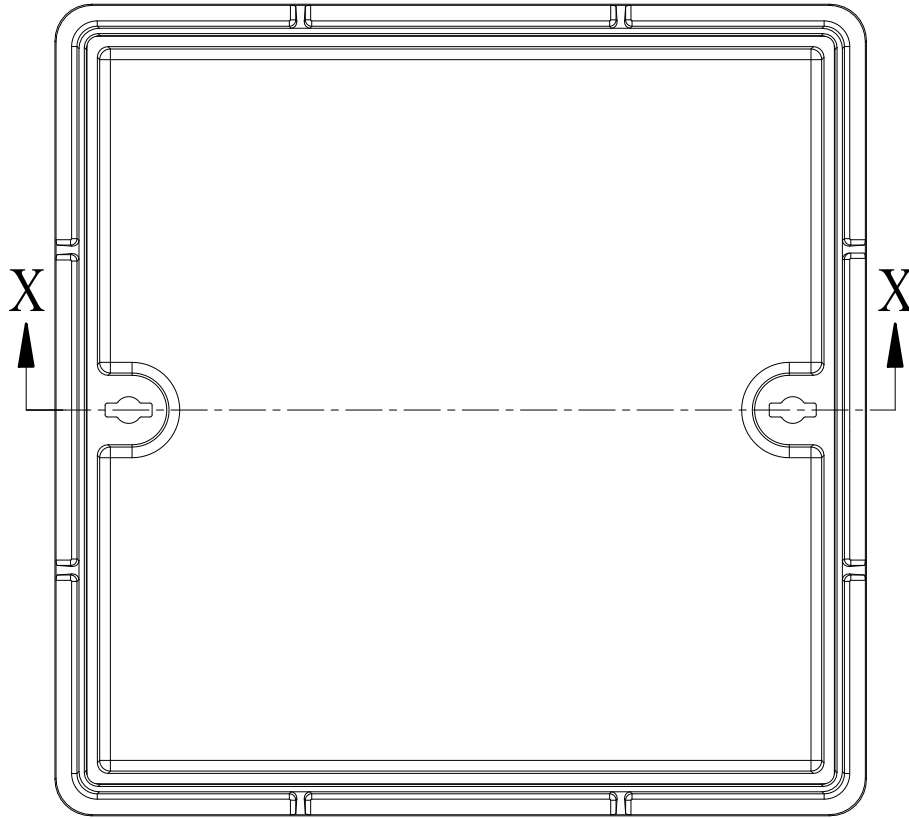
SECTION (X-X)

ALL DIMENSION ARE IN MM

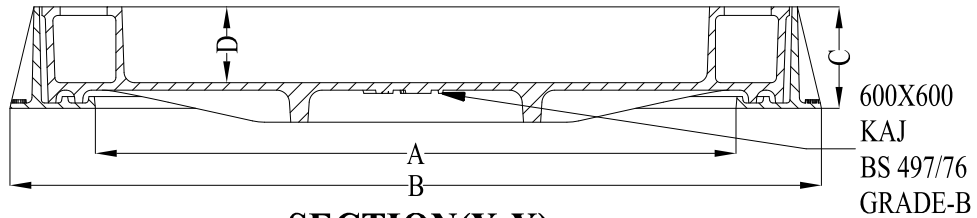
| | |
|----------|---------------|
| GRADE | B |
| LOADING | 150 KN. |
| MATERIAL | CAST IRON |
| COATING | BLACK BITUMEN |
| STANDARD | BS - 497/76 |

| CLEAR OPENING(A) | OVER BASE(B) | DEPTH(C) | RECESS DEPTH(D) |
|---------------------|-----------------|----------|--------------------|
| 300X300MM. | 440X440MM. | 92MM. | 70MM. |

| | | | | | |
|--------------------|-----------|-----------------|------------|--|-----------------------------------|
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| CHECKED BY | A.K.GHOSH | DATE | 14-10-2017 | | |
| APPROVED BY | | REVISION | 000 |  | |
| DIMENSION | MM | SCALE | NTS | TITLE | 300X300X92 DOUBLE SEAL RECESS TOP |
| | | | | DRG. NO. | 30X30 DSRT C.I.(GR-B) |



TOP VIEW




SECTION(X-X)

ALL DIMENSION ARE IN MM

| | |
|----------|---------------|
| GRADE | B |
| LOADING | 150KN. |
| MATERIAL | CAST IRON |
| COATING | BLACK BITUMEN |
| STANDARD | BS - 497/76 |

| CLEAR OPENING(A) | OVER BASE(B) | DEPTH(C) | RECESS DEPTH(D) |
|---------------------|-----------------|----------|--------------------|
| 600X600MM. | 760X760MM. | 95MM. | 70MM. |

| | | | | | |
|--------------------|-----------|-----------------|------------|--|-----------------------------------|
| DRAWN BY | K.MANNA | ISSUE | | JPK METALLICS PVT. LTD. OFFICE:- " Bentic House" P-15 Bentic Street , Kolkata - 700 001, INDIA. FACTORY:- Vill- Amraberia, Uluberia, Howrah, INDIA. | |
| CHECKED BY | A.K.GHOSH | DATE | 21-09-2017 | | |
| APPROVED BY | | REVISION | 000 |  | |
| DIMENSION | MM | SCALE | NTS | | |
| | | | | TITLE | 600X600X95 DOUBLE SEAL RECESS TOP |
| | | | | DRG. NO. | 60X60 DSRT C.I.(GR-B) |