Jaiswal Steel Industries

(Casting Metals Casting Relationship)

MANUFACTURE OF

Ductile Iron/Cast Iron
Manhole Covers,
Ferrous &
Non-Ferrous Casting

Introduction

Jaiswal Steel Industries Pvt Ltd.

Jaiswal Steel Industries Pvt. Ltd. has been a leading player in the foundry industry for over **10 years**, producing high-quality castings for various industries. Our state-of-the-art equipment allows us to cast single pieces weighing 50 to 2800 kg, meeting international and Indian standards. With a manufacturing capacity of 6000 tons per annum, we offer end-to-end solutions, from concept to final product manufacturing, tailored to meet customer requirements.

Our integrated manufacturing, quality, and delivery processes guarantee flexibility in our supply chain, ensuring reliable and quality castings, just-in-time delivery, and continuous improvement. Our committed workforce and design team work in compliance with customer quality standards and inventory demands, striving to exceed expectations. Choose Jaiswal Steel Industries Pvt. Ltd. for unmatched quality and reliability in your casting requirements.

Mission

Our mission is to be a reliable supplier of steel and alloy castings for various industries such as paper, railways, and power plants. Through understanding our customers' needs, we aim to build confidence in our ability to deliver quality products and services.

Vision

Our vision is to become a world leader in the foundry industry, providing high-quality castings at competitive rates while ensuring complete customer satisfaction. We aim to achieve this by leveraging our skilled workforce, advanced equipment, and adherence to international quality control standards.

INFRASTRUCTURE

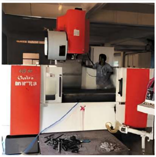
- Electric Furnace of INDUCTOTHERM make of 1 MT x 1 nos and 2 MT x 1 nos
- Jolt Squeez Moulding Line of Box Size 750 × 650 × 150/200 with capacity of 30-40 moulds per hour
- Automatic Sand Handling System
- 2 sand mixers of 500 kgs & 1000 kgs
- Various mullers of 500 kgs/300 kgs/ 200 kgs
- Sand mixer of 100 Kgs for No-Bake Sand System
- Extensive pollution & dust extraction systems
- Hand moulding facility boxes size 300 × 300 - 1300 × 1300
- Shot blasting machines 2 nos

Laboratory

- ☆ Ametek make Spectrometer
- ☆ Micro Analyzer for Microstructure
- ☆ Two separate laboratories
- ☆ UTM Machines
- ☆ BHN testing
- ☆ Tilt & Pull out test for EN 124-2
- ☆ Load testing of 150 MT
- ☆ Carbon Silicon Analyzer
- ☆ Various other testing equipment's

Sand Testing

- ✩ Compactibility Tester
- ✩ Digital Moisture Meter
- ✩ Core Hardness Tester
- ✩ Digital Permeability Meter
- ✩ Universal Digital Strength Machine
- ✩ GCS Tester
- ✩ Clay Washer
- ✩ Sieve Shaker
- ✩ Mould Hardness Tester
- ✩ Methylene blue Clay Tester

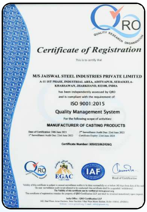


Machining Facility

- ✩ VMC machine for mould making
- ✩ Lathes
- ✩ Milling machines
- ✩ Shaping machines
- ✩ Drilling machine
- ✩ Turret lathe
- ✩ Top & bend drills & many more

Quality Assurance

System & control



Certificate of Registration

This is to certify that

M/S JAISWAL STEEL INDUSTRIES PRIVATE LIMITED
A-11 1ST PHASE, INDUSTRIAL AREA, ADITYAPUR, SERAIKELA-KHARSAWAN, JHARKHAND, 832108, INDIA

has been independently assessed by QRO
and is compliant with the requirement of:

ISO 9001:2015

Quality Management System

For the following scope of activities:

MANUFACTURER OF CASTING PRODUCTS

Date of Certification: 24th June 2021
1st Surveillance Audit Due: 23rd June 2022
2nd Surveillance Audit Due: 23rd June 2023
Certificate Expiry: 23rd June 2024

Certificate Number: 305021062426Q

Head of Certification

The Validity of this certificate can be verified at www.qrocert.org

India Office : QRO Certification LLP

- **ISO 9001:2015 & ISO 9001:2020**
- **Third Party Testing Services**
- **In-House Extensive Services**
- **In-House Testing System**
- **ISO Process Control Systems**
- **System To Manage Data Flow**
- **Team of Engineers and Quality Experts**

Jaiswal Steel Industries Pvt. Ltd. has been a leading player in the foundry industry for over 10 years, producing high-quality castings for various industries. Our state-of-the-art equipment allows us to cast single pieces weighing 50 to 2800 kg, meeting international and Indian standards.

We are certified to both **ISO 9001:2015** and **ISO 9001:2020** standards, and work with reputable third-party testing services to verify that our products meet the required specifications. Our extensive in-house testing system and ISO process control systems ensure the highest standards for quality and reliability.

Our system to manage data flow captures all relevant information to ensure timely delivery and customer satisfaction. With a manufacturing capacity of 6000 tons per annum, we offer end-to-end solutions, from concept to final product manufacturing, tailored to meet customer requirements.

Our team of engineers and quality experts work closely with our committed workforce and design team to maintain our high standards for quality and exceed customer expectations. Our integrated manufacturing, quality, and delivery processes guarantee flexible and reliable supply chain solutions, with just-in-time delivery and continuous improvement.

Choose Jaiswal Steel Industries Pvt. Ltd. for unmatched quality and reliability in your casting requirements.

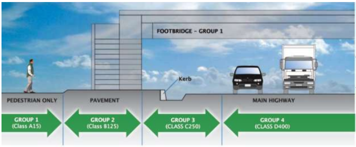
Standard Manhole Covers

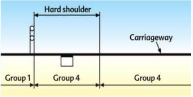
Strength Requirements

Selecting the appropriate class of manhole cover is critical to ensure that it can withstand the weight and traffic load in the specific location where it will be installed, while also guaranteeing the safety of people and equipment passing over it. The appropriate class of manhole cover is determined by the place of installation, which has been divided into groups numbered 1 to 6.

Each group has specific requirements in terms of strength and durability, and a recommended class of manhole cover is indicated in parentheses for each group. However, the selection of the appropriate class ultimately falls on the designer's responsibility, taking into account various factors such as the volume and weight of traffic, the type of vehicles passing over it, and the depth of the manhole.

It is essential to note that selecting a manhole cover with inadequate strength and durability can result in damage to the cover, as well as to the underground utilities it is meant to protect, leading to potential safety hazards and costly repairs. Therefore, when there is any doubt, it is always recommended to select the stronger class of manhole cover to ensure reliable and long-lasting performance.





Group 1 (Class A15) : Areas which can only be used by pedestrians and pedal cyclists.

Group 2 (Class B125) : Footways, pedestrian areas and comparable areas, car parks or car parking decks.

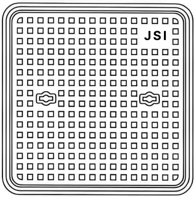
Group 3 (Class C 250) : For gully tops installed in the area of kerbside channels of roads which when measured from the kerb edge, extend a maximum of 0.5 m into the carriageway and a maximum of 0.2 m into the footway.

Group 4 (Class D 400) : Carriageways of roads (including pedestrian streets), hard shoulders and parking areas, for all types of road vehicles.

Group 5 (Class E 600) : Areas imposing high wheel loads, e.g. docks, aircraft pavements.

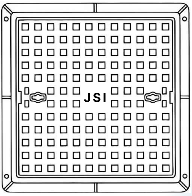
Group 6 (Class F 900) : Areas imposing particularly high wheel loads, e.g aircraft pavements.

Light Duty Manhole Covers



Clear Opening	Over Base	Depth	EN-124	BS 497
a(mm)	B(mm)	C(mm)	Class	Grade
150×150	200 × 200	25	A	C
200 × 200	255 × 255	25	A	C
250 × 250	310 × 310	25	A	C
250 × 350	310 × 405	23	A	C
300 × 300	350 × 350	25	A	C
300 × 300	380 × 380	30	A	C
350 × 350	405 × 405	25	A	C
350 × 470	405 × 525	25	A	C
375 × 375	425 × 425	25	A	C
400 × 400	450 × 450	25	A	C
450 × 450	525 × 525	25	A	C
450 × 450	540 × 540	40	A	C
450 × 450	540 × 540	30	A	C
460 × 535	525 × 600	30	A	C
600 × 450	680 × 530	40	A	C
600 × 450	690 × 540	30	A	C
610 × 460	745 × 595	50	A	C
600 × 600	680 × 680	40	A	C
600 × 600	710 × 710	45	A	C
750 × 600	815 × 665	50	A	C

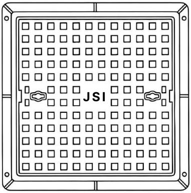
MEDIUM DUTY SQUARE/RECTANGULAR MANHOLE COVER



Clear Opening	Over Base	Depth	EN-124	BS 497
A(mm)	B(mm)	C(mm)	Class	Grade
450 × 450	630 × 630	100	B	B
600 × 450	750 × 600	75	B	B
600 × 600	750 × 750	75	B	B
600 × 600	755 × 755	75	B	B
750 × 600	930 × 780	100	B	-
750 × 750	820 × 820	50	B	-
900 × 600	1120 × 820	100	B	-
600 × 600	810 × 810	75	B	B

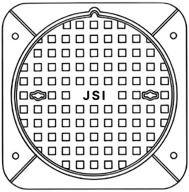
*Weights and dimensions are subject to design. Details available on request.

HEAVY DUTY SQUARE/RECTANGULAR MANHOLE COVER



Clear Opening	Over Base	Depth	EN-124	BS 497
A(mm)	B(mm)	C(mm)	Class	Grade
300 × 300	450 × 450	75	D	A
300 × 300	450 × 450	75	C	-
400 × 400	550 × 550	75	C	A
450 × 450	615×615	100	C	A
600 × 450	750 × 600	100	C	A
600 × 600	760 × 760	100	D	A
600 × 600	810×810	105	C	A
750 × 600	930 ×780	100	D	A
750 × 750	930 × 930	100	C	A
900 × 600	1100 × 800	100	C	A
900 × 900	1100 × 1100	100	C	A

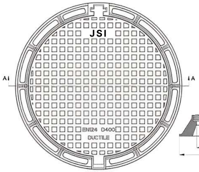
HEAVY & MEDIUM DUTY CIRCULAR MANHOLE COVERS WITH SQUARE FRAME



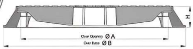
Clear Opening	Over Base	Depth	EN-124	BS 497
A (mm)	B(mm)	C (mm)	Class	Grade
300 θ	400 × 400	75	B	B
500 θ	710 × 710	75	B	B
550 θ	650 × 670	60	B	-
600 θ	750 × 750	75	B	B
600 θ	750 × 750	100	C/D	A
700 θ	900 × 900	100	B	B
700 θ	900 × 900	100	C	A

*Weights and dimensions are subject to design. Details available on request.

HEAVY & MEDIUM DUTY CIRCULAR MANHOLE COVERS WITH CIRCULAR FRAME



TOP VIEW

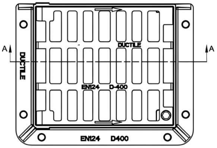


SECTION A-A

JSI
EN124 D400
DUCTILE

Clear Opening(mm)	Over Base(mm)	Load	Height(mm)
675	835	D400	100
600	750	D400	100
540	640	C250	35
550	730	D400	70
555	712	D400	95

GULLY GRATES



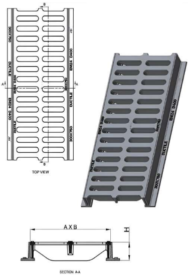
TOP VIEW

BS EN124 D400
DUCTILE
430X370X100

Clear Opening(mm)	Over Base(mm)	Load	Total Depth
300 × 300	333 × 350	125kN	50
450 × 450	540 × 664	180kN	87
280 × 360	440 × 360	C250	70
300 × 300	400 × 400	D400	75
600 × 600	700 × 700	D400	100
430 × 370	540 × 441	D400	100
385 × 315	530 × 403	D400	100
336 × 308	496 × 398	D400	75
400 × 400	500 × 500	D400	100
450 × 450	538 × 592	D400	100

*Patterns above are indicative. Various other sizes are available.

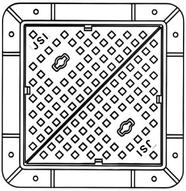
CHANNEL GRATES



Clear Opening(mm)	Length(mm)	Load	Seating Depth
150	750	C250	25
250	700	C250	25
450	750	D400	25
350	750	D400	25
300	750	D400	25
250	750	D400	25
200	750	D400	25
250	700	D400	25
400	750	D400	35
100	750	D400	25
600	750	D400	25
450	750	D400	35
450	750	F900	50
400	750	F900	50
300	750	F900	50
80	600	-	60

*Patterns above are indicative. Various other sizes are available.

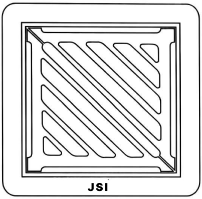
DOUBLE TRIANGULAR MANHOLE COVERS



Clear Opening	Over Base	Depth	EN-124	BS 497
A (mm)	B(mm)	C (mm)	Class	Grade
600 × 600	750 × 750	100/150	D	A
600 × 600	750 × 750	100	B	B
600 × 600	810 × 810	125	D	A
675 × 675	835 × 835	125	D	A
675 × 650	880 × 880	170	D	A
750 × 750	910 × 910	100	D	A
750 × 750	950 × 950	100	D	A
900 × 900	1055 × 1055	125	D	A
900 × 900	1160 × 1160	125	D	A

*Weights and dimensions are subject to design. Details available on request.

DOUBLE TRIANGULAR GULLY GRATINGS

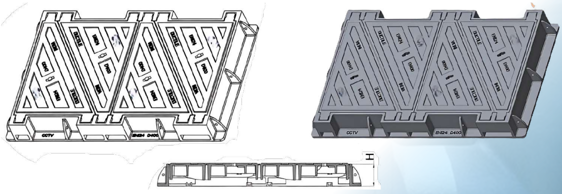


Clear Opening A(mm)	Over Base B(mm)	HEIGHT C(mm)	WEIGHT (kg)
450 × 450	600 × 600	100	80
600 × 600	750 × 750	100	120
600 × 600	752 × 752	75	150
600 × 600	752 × 752	100	180

TOLERANCE : ±5%

*Weights and dimensions are subject to design. Details available on request.

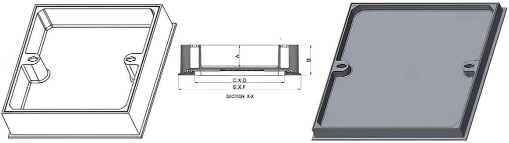
CARRIAGEWAYS



Clear Opening(mm)	Over Base(mm)	Load	Height (mm)
702 × 702	910 × 910	D400	100
702 × 1402	910 × 1610	D400	100
696 × 696	1374 × 850	D400	150
696 × 1830	850 × 1984	D400	150

*Patterns above are indicative. Various other sizes are available.

RECESSES COVERS

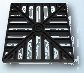


Clear Opening(mm)	Over Base(mm)	Load	Height (mm)
600 × 600	730 × 730	D400	75
800 × 800	960 × 960	D400	100
700 × 700	850 × 850	D400	100
400 × 400	490 × 490	D400	50
500 × 500	590 × 590	D400	50
300 × 300	400 × 400	B125	40
300 × 300	420 × 420	D400	75
300 × 300	480 × 480	D400	100
450 × 450	600 × 600	D400	100
600 × 600	750 × 750	D400	90
800 × 800	960 × 960	D400	100
900 × 900	1080 × 1080	D400	100
1000 × 1000	1180 × 1180	D400	100

CARRIAGEWAY/MANHOLE COVER ACCESSORIES

Bracket Cable Bearer

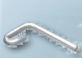
Indented Foundation Bolts



Grating Sump

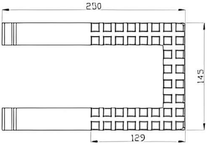
Cable Bearer

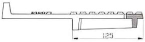
Iron Anchor 4



Pin Locking Cable Bearer

Step Iron





SECTION A-A

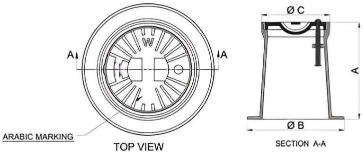
Length	Breath	Height(mm)
175	145	125
185	145	125
250	145	125
370	145	125
250	150	125

Lifting Key

Type	Length	Breadth
“T” Type	280	130
“V” Type	290	150

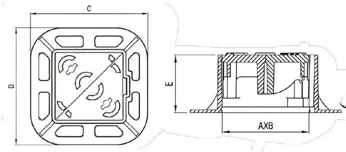
*Patterns above are indicative. Various other sizes are available.

SURFACE BOX



Clear Opening (mm)	Over Base(mm)	Load	Total Depth(mm)
150	280	D400	550
150	280	F900	300
150	280	E600	466
250	467	F900	450
150	280	D400	250

*Patterns above are indicative. Various other sizes are available.



Clear Opening (mm)	Over Base(mm)	Load	Total Depth(mm)
225 × 225	300 × 300	167kN	150
385 × 230	512 × 363	300kN	150
150 × 150	250 × 250	D400	100
380 × 230	512 × 363	D400	100
345 × 220	425 × 300	D600	280
150 × 150	320 × 320	D900	100

*Patterns above are indicative. Various other sizes are available.

General Casting

MS/CI Valve Casting

High Chrome Liners Plate

Anode

Manganese Jaw Plate

Hammer

Ni Hard Casting

Grinding Media Balls

C.i / D.i Pipe Fitting

Counter Weights

Railway Parts

Jaiswal Steel Industries Pvt Ltd.

Factory: A11, 1st phase, Adityapur Industrial
Area, Adityapur, Jamshedpur 832109
Phone : 9431303550
Head Office: Draupadi Bhavan, Station
Road, Jugsalai, Jamshedpur 831002
Phone : 0657-2290085

Gmail: ssgroupenquiry@gmail.com
jaiswalfoundry@gmail.com

Group of Companies

S.S Wire Products Pvt Ltd

Manufacturer of Atomized Aluminum Powder and aluminum Powder

Shiv Shakti Aluminum Extrusion Pvt Ltd

Manufacturer of Aluminum Extrusion Profiles

Shiv Shambhu Iron & Steel Pvt Ltd

Processing and Trading of Ferrous and Non Ferrous Scrap

www.shivshambhugroup.com

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