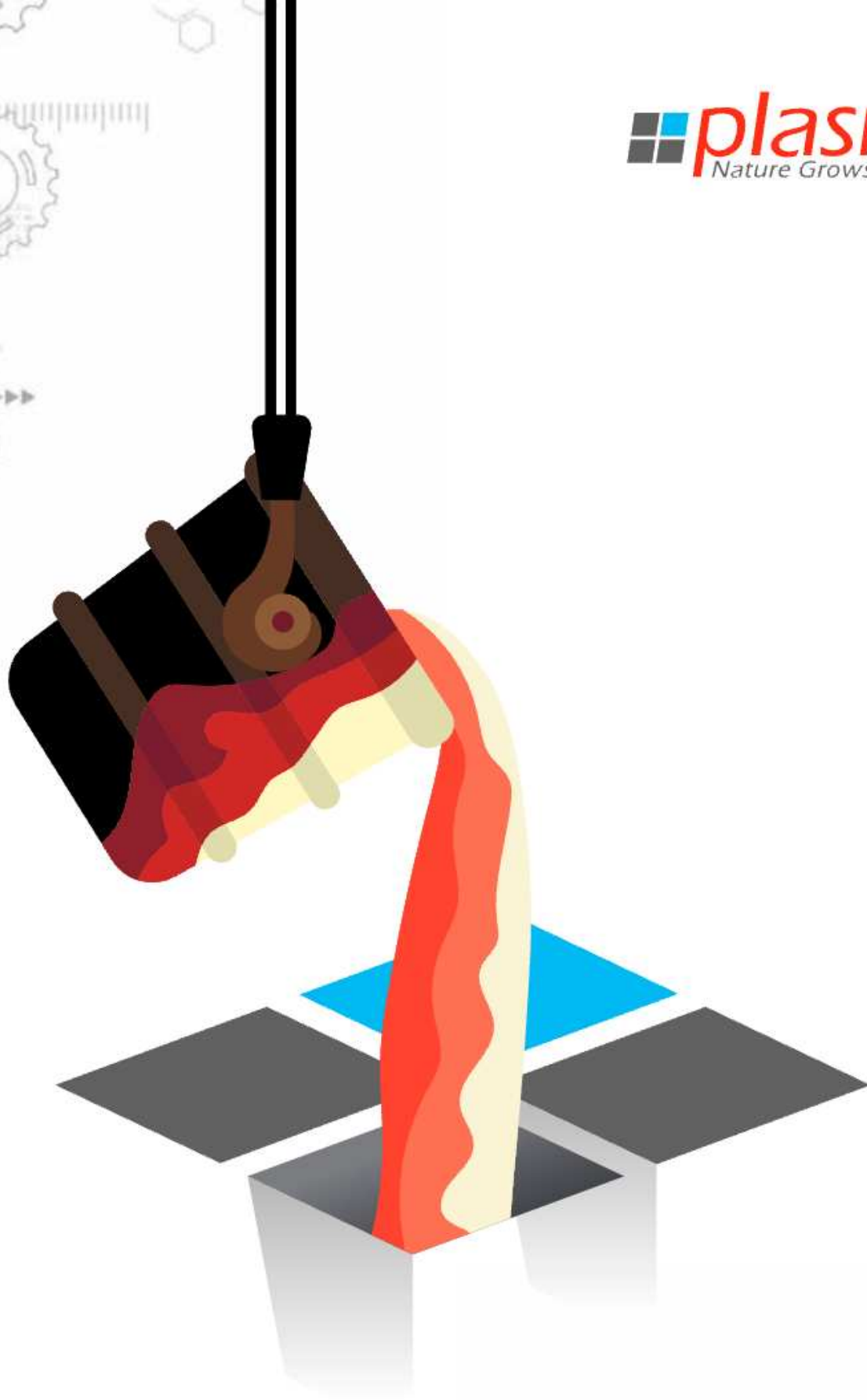




Plasma Alloys Pvt. Ltd.

SPECIALIZED DUCTILE IRON FOUNDRY

with distinctive capability of **SiMo**, **ADI** & **SSFDI** Grades



ISO 9001:2015
ISO 45001:2018
ISO 14001:2015



CERTIFIED



Plasma Alloys Pvt. Ltd.

It gives us immense pleasure and pride in introducing our company **Plasma Alloys Pvt. Ltd.** with continuous and continual improvements with over 30 years of experience in the field of casting, Plasma Alloys Pvt. Ltd. is a manufacturer and exporter of wide range of casting products and processes, serving Valve, Pump, Pipe Fittings, Joint Restraints, Automobile, Construction and Building Materials Industries with a customer base in over 35 countries.

Plasma Alloys has the yearly capacity to produce 15,000 tons of castings. Plasma Alloys offers wide range of casting range with weights of 100 grams to 1.3 Tons Supplying OEMs in various industries. The company has set the pace in introducing technology for mass production for superior quality to match the international standards and market.

PAPL is a fully automatic plant well equipped with various Test Laboratories, the pattern shop is well equipped with V.M.C. machines which helps us to design patterns as per customer's requirements, being a customer centric unit our research and development department works round the clock to find right solutions for our customers.

apart from being an OEM supplier, Plasma Alloys have a proprietary product range of ductile iron Manhole covers and Gratings under the brand name of PLASMA & cast iron with brand name of RISHI along with other allied product range with over 3 decades in the manhole covers and gratings industry plasma alloys have consolidated its position as market leader and our products are acknowledged and preferred world wide.

We have earned reputation for fast deliveries, superior quality, competitive pricing and outstanding customer service.



PAPL : Certifications / Ratings



Plasma Alloys is an ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 certified company delivering quality products to our most valued customers. We possess Kitemark certification issued by BSI Group (UK) to our product manhole covers & gratings. This Certification is an assurance that plasma alloys manufacturing facility and its products of manhole covers and gratings are made as per European standard a i.e., BS EN 124:2015-2. For this reason our products are well accepted in India and world wide.



TRUST

We always believe that trust of customers is utmost important, and to gain the trust of customers we deliver quality products which meets the needs and expectations of customers at most competitive rates.



COMMITMENT

Customer satisfaction through constant innovation is our motto, and we always try our level best to full fill the demands of the customer by delivering products as per commitments. We are always true to our commitments and due to that the company has achieved an excellent track record in international market.



PRODUCT PROFILE

Our market research reveals that need of ductile iron castings have increased utility incredibly in construction, telecommunications, automobile and engineering industries. Ductile iron castings are widely accepted by the developed and developing countries.

The foundry is well equipped to produce and supply ductile iron, grey iron casting and all graded castings as per domestic and international standards, weight of casting up to 1300 kgs., in any size and shape can be produced in any required metal composition through induction melting process and precisely checked by Ferro Lab Analyzer for carbon silicon and other elements by at our wet lab. Patterns, Core boxes for the same are developed in-house.



VISION

Ductile iron Industry is undergoing technological innovation, so is our manufacturing expertise. We have made dynamic efforts, and continuous endeavor to confront the technological challenges of the modern age. Our strategy is also to explore new fields where we can capitalize our advanced casting technology and high precision processing skills.

WHAT IS DUCTILE IRON ?

Ductile iron (DI), also known as ductile cast iron, nodular cast iron, spheroidal graphite iron, spheroidal graphite cast iron and SG iron, is a type of cast iron invented in 1943 by Keith Millis. While most varieties of cast iron are brittle ductile iron has much more impact and fatigue resistance, due to its nodular graphite inclusions. DI is made up of spheroids achieved by introducing a suitable quantity of magnesium into bath before casting. This gives the product - high breaking load as well as remarkable elasticity.

Ductile Iron is typically thrice as strong as Cast Iron and nearly as strong as steel

Spheroidal graphite or ductile iron is a unique form of iron which prior to the metal casting process receives a treatment with magnesium to produce an exceptionally strong, impact resistant durable metal.

THE DIFFERENCE BETWEEN DUCTILE AND GREY IRON

Magnesium is added at the molten stage transforms the flakes of graphite which are common with the grey iron casting process and transforms them into spheroidal or nodular form. The spheroidal structure provides a higher tensile strength as well as a higher strength to weight ratio when compared with the properties inherent with grey iron manufacture.

THE BENEFITS OF DUCTILE IRON

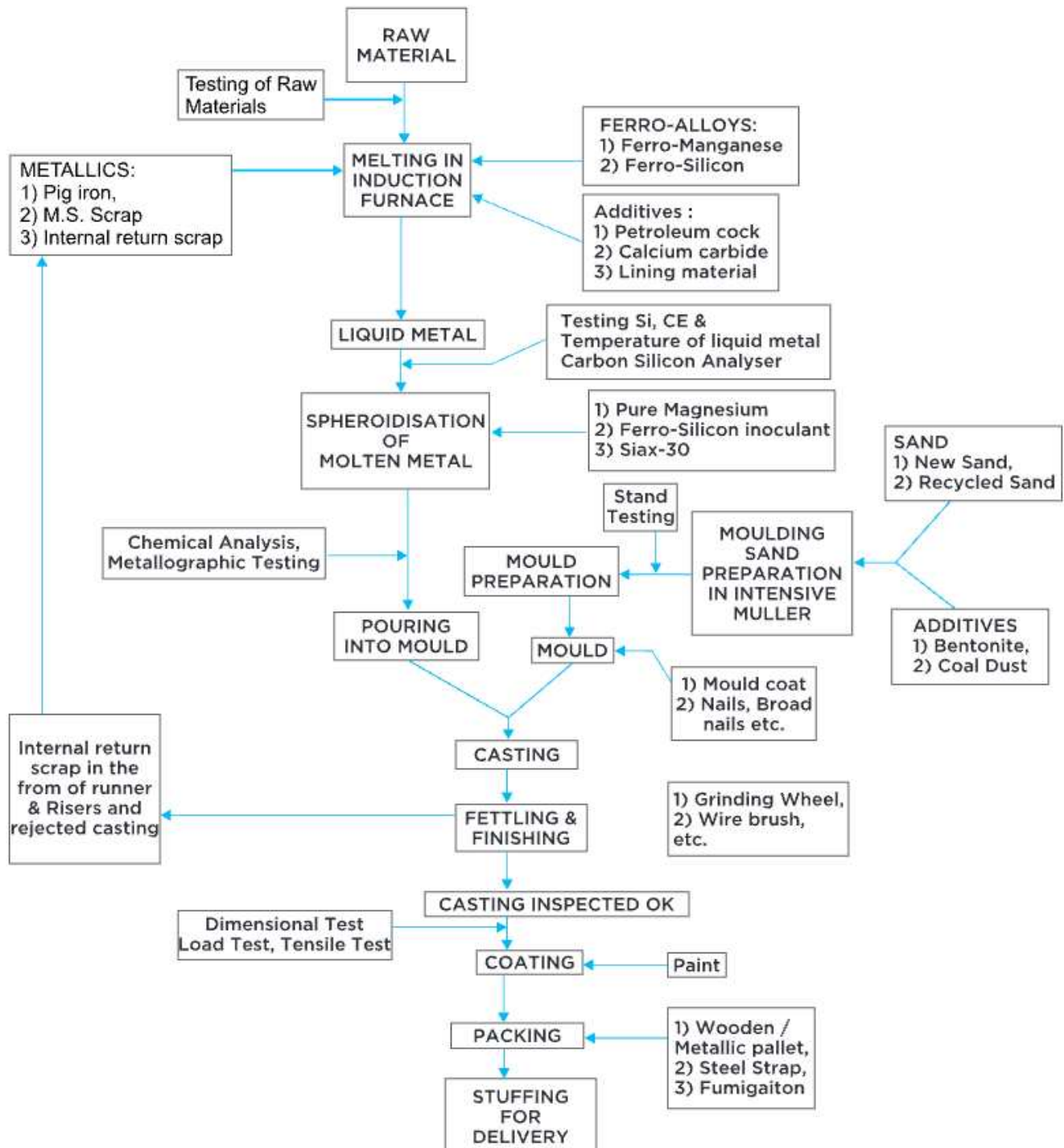
The higher strength of Ductile iron with respect to weight ratio compared to traditional grey iron equivalents, allows upto 50 % weight savings !

ALUMINIUM CASTING

- We cast various grades of Aluminum and Aluminum Alloys through High Pressure Die Casting(HPDC) & Gravity Die Casting(GDC) methods mostly for Auto Industries.
 - High Pressure Die Casting(HPDC): 2x HPDC machines:120 tons and 180 tons capacity
 - Gravity Die Casting: Currently casting from 100 grams to 22 Kg
- Aluminum Grades: LM2, LM6, LM24, LM25 etc

FOUNDRY DIVISION IN BRIEF

- Total investment around INR 700 million.
- SG Iron (Nodular cast Iron, Ductile Iron), Graded Cast Iron & Aluminum Die Casting (HPDC) And Gravity Die casting (GDC)
- Total Plant Manufacturing facility is spread across 20,000 sq. meters.
- Capacity 1300 Tonnes per month.
- Facilities like Metallurgical Lab with Image Analyzer Software, Sand Lab, Physical And chemical Lab with Spectrometer.
- In house VMC Pattern Making with CAD/CAM Software Method – by simulation software.
- Experienced Professionals and staff to produce intricate shape to meet International requirements.
- Eco friendly working environments through wet scrubbers, dust collectors with pulse jet cleaners, cyclone separators.
- With customer base in over 35 countries, exports accounts for over 90% of the total productions.



MELTING SHOP :-

- 9 X Induction Melting Furnaces
 - 5x 750 Kg Inductotherm make
 - 2x 750 Kg Megatherm make
 - 1x 350 Kg Inductotherm Make
 - 1x 150 Kg Inductotherm Make
- Molten Metal Transfer and Pouring through Monorail Material Handling System.
- Immersion Type Temperature Measurement Equipment.
- Infrared Type Optical Pyrometer
- Advanced C.E. Meter with Cooling Curve Analyzer for online Metal Testing (Ferro Lab.)
- In-House 2x Spectrometer (German make- Foundry Master/Oxford Instruments & Italian Make- GNR) for checking chemical composition for every heat cycle.

MOULDING SHOP :-

- High Pressure Moulding Line : Mould size 1100x1050 mm.
- Vacuum Casting: Moulding Box size: 1400x1350
- Shell Moulding: (Mould size upto 700 x 600 mm)
- Jolt-Squeeze Moulding line 3x Pair for Green sand Moulding Line
 - 1 x Pair DT 600 Moulding Machine set with moulding boxes of size 750x750(mm)
 - 2 x Pair DT 900 Moulding Machine set. Using this we are able to use moulding box size upto 1200x1200 mm for casting
- CO2 / No bake process for extra large size castings by Hand moulding process.
- Fully Automatic Mould Handling System
- Fully Automatic Sand Plant of 40 tons/Hr. Capacity with Advanced High Speed Intensive Mixture. Sand conditioning and cooling system. Sand Storage Capacity of 550MT.
- Casting Shakeout conveyed through Slate Conveyor System.

FETTLING SHOP

- Hanger Type & Belt type Shot Blasting Machine & Sand Blasting, Pulse Jet Dust Collection System.
- Various Types of Pneumatic Tools for Casting Cleaning & Chipping.
- Painting Booth, color coating booth, Epoxy paint shop for manhole Covers & Gratings

DESIGN SHOP

- CAD/CAM Programming.
- In House 3D design and development tools for patterns, Dies and core boxes.
- 4 X VMC machines dedicated for tooling development
- Several Lathe's and Drill Machines.
- Simulation for methoding and Solidification Software.

SAND TESTING

- Complete Sand Testing and Monitoring Laboratory for Sand, Moulding Sand, Core Sand and Shell Sand

METAL TESTING :-

- Microscope for checking microstructures of castings with Image Analyzer Software
- Tensile testing machine for tensile test and elongation
- Hardness testing machine for testing hardness
- Spectrometer (German make: Foundry-Master/Oxford Instruments and Italian Make: GNR)

HENCE WE CAN SERVE :-

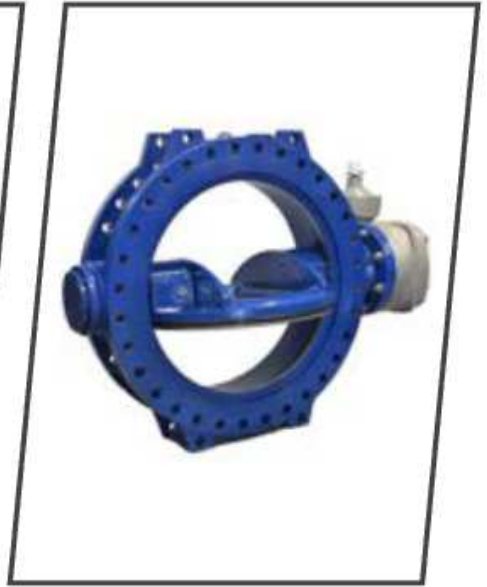
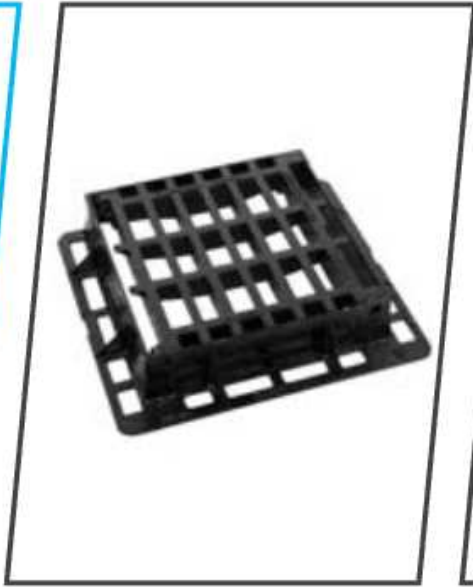
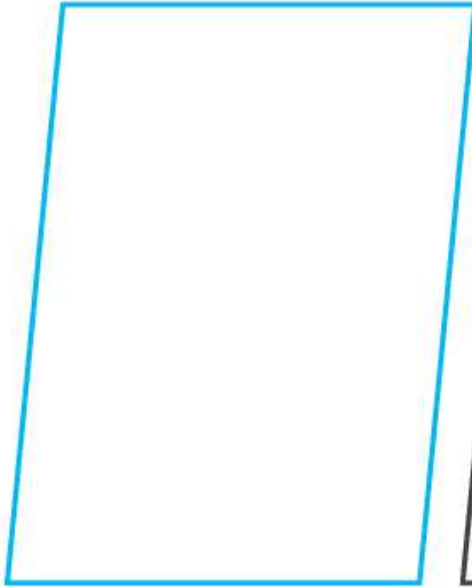
- Quality Casting at Optimum Cost and at Industries lowest Lead time.
- With Total Process control from Input Material to End Product allows us to work with minimized costs.
- To Meet out the Customer Schedule-Short lead time.
- Various Industries from parts weighing just 100 grams to 1.3 tons as we have various moulding line facilities. Depending on the size, intricacy and volume of the casting we choose the moulding line to be used and this allows us to work for clients in vast diversified industries

With Customer base in over 35 countries we cater in a very diversified plethora of Industries. At PAPL we produce Ductile Iron castings for construction, Valves, Flanges/Fittings and municipal sectors as well as for automobile sectors. We are single source suppliers for L&T construction and Jindal Saw Ltd for items involving Ductile iron Municipal Castings (Manhole covers), Flanges and other allied fittings.

Apart from our own range of Ductile Iron Products we act as an OEM for several MNCs and Industry's Leading Companies

OEM Supplier of

 **SIEMENS** **ALLIED**
GROUP **Regal**
Rexnord



Proprietary Product Range of
PLASMA
**MANHOLE COVERS &
GRATINGS**

SQUARE & RECTANGULAR COVER WITH FRAME

SR No.	ITEM CODE	LOAD CLASS (IN KN)	CLEAR OPENING (IN MM)	OVER BASE (IN MM)	HEIGHT (IN MM)	REMARK
1	PA 303B	B125	300X300	400X400	30	
2	PA 404 D	D 400	400X400	550X550	100	
3	PA 454 B	B125	450X450	560X560	50	
4	PA 606B	B125	600X600	700X700	40	
5	PA 606 C	C250	600X600	740X740	62	
6	PA 7560 D	D400	600X750	765X915	100	
7	PA JRC-4 (CW4)	D400	540X995	660X1115	96	
8	PA 808 D	D 400	800X800	1000X1000	100	
5A	PA 606 CA	C 250	600X600	700X700	60	
9	PA 707 C	C250	700X700	860X860	40	FABRICATED FRAME
10	PA 915X460 D	D 400	915 X 460	1025 X 570	100	WITH RUBBER GASKET & 6 NOS BOLT LOCKING
11	PA 454 CL	C 250	450X450	550X550	45	WITH RUBBER GASKET & 4 NOS BOLT LOCKING

FEATURES

- Manufacturing standard : BS EN 124
- Material : Ductile Iron (As per ISO 1083)
- Large Open area for water drainage

Options

- Black Bitumen coating / Epoxy coating
- Hinged type
- Badging Optional

SQUARE & RECTANGULAR COVER WITH FRAME

SR No.	ITEM CODE	LOAD CLASS (IN KN)	CLEAR OPENING (IN MM)	OVER BASE (IN MM)	HEIGHT (IN MM)	REMARK
16	PA 3030 B	B125	300X300	420X420	25	
17	PA 3030 C	C250	300X300	420X420	45	
18	PA 3030 D	D 400	300X300	450X450	100	
19	PA 4545B	B125	450X450	600X600	40	
20	PA 6060B	B125	600X600	750X750	40	
21	PA 6060C	C250	600X600	750X750	75	
22	PA 6060D	D400	600X600	750X750	100	
22A	PA 6060 DA	D400	600X600	775x775	75	
23	PA 4545 C	C250	450X450	600X600	40	
24	PA 4545 D	D400	450X450	640X640	100	
24A	PA 4545 DA	D400	450X450	600x600	75	
25	PA 7560 D 2	D400	600X750	800X950	100	

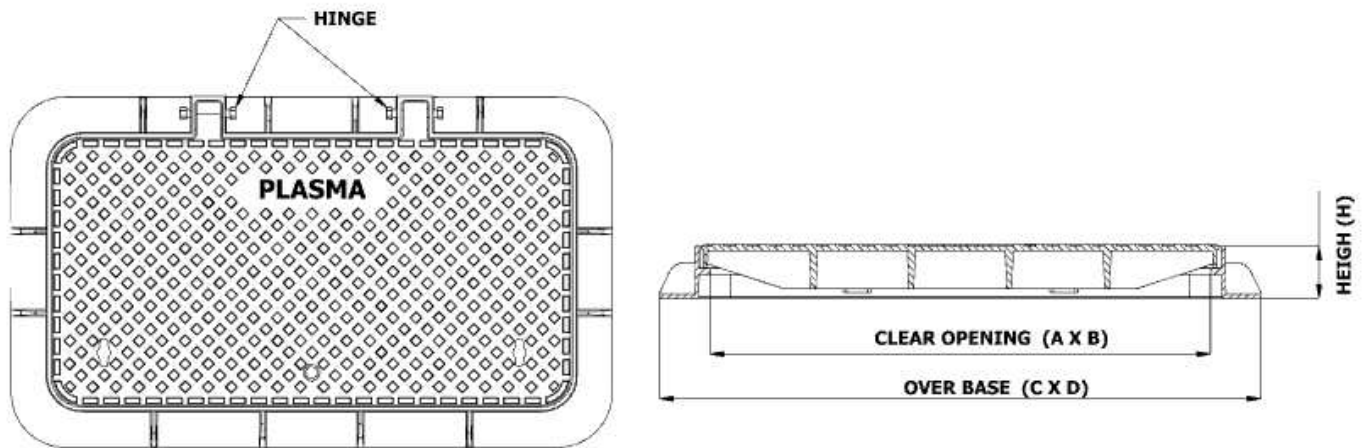
FEATURES

- Manufacturing standard : BS EN 124
- Material : Ductile Iron (As per ISO 1083)
- Large Open area for water drainage

Options

- Black Bitumen coating / Epoxy coating
- Hinged type
- Badging Optional

COVER WITH FRAME HINGE TYPE



SR No.	ITEM CODE	LOAD CLASS (IN KN)	CLEAR OPENING (IN MM)	OVER BASE (IN MM)	HEIGHT (IN MM)	REMARK
31	PA 450X900 CO	B 125	450X900	550X1000	25	
32	PA 600X900 CO	B 125	600X900	700X1000	75	
33	PA 600X900 CO	C 250	600X900	700X1000	75	
34	PA 600X900 CO	D400	600X900	780X1080	100	
35	PA CW4	B125	450X916	645X1105	96	WITH LOCK
36	PA 450X900 CO	C250	450X900	610X1060	95	
36 A	PA 450X900 CO	D400	450X900	610X1060	95	
37	PA DC 9012 D	D400	900X1200	1100X1400	100	DOUBLE COVER WITH HINGE
38	PA Cw4 D	D 400	450X916	645X1105	96	WITH LOCK

FEATURES

- Manufacturing standard : BS EN 124
- Material : Ductile Iron (As per ISO 1083)
- Large Open area for water drainage

Options

- Black Bitumen coating / Epoxy coating
- Hinged type
- Badging Optional

ROUND COVER WITH FRAME

SR No.	ITEM CODE	LOAD CLASS (IN KN)	CLEAR OPENING (IN MM)	OVER BASE (IN MM)	HEIGHT (IN MM)	REMARK
46	PA HINGE 540 C	C250	Ø540	Ø 710	75	WITH HINGE & SPRING LOCK
47	PA HINGE 560 D	D400	Ø560	Ø 700	100	WITH HINGE & LOCK
48	PA HINGE 600 D	D400	Ø600	Ø 810	100	WITH HINGE & SPRING LOCK
49	PA CITY 600	B125	Ø600	Ø750	60	WITH HINGE & SPRING LOCK
50	PA 6000 D HLG	D400	Ø600	HX850	100	WITH HINGE & LOCK
51	PA 600D(ROUND)	D400	Ø600	Ø 810	100	WITH HINGE & LOCK
52	PA DTSC-600 D	D400	Ø600	760X760	100	
53	PA 650D (ROUND)	D400	Ø613	Ø 840	100	WITH HINGE & SPRING LOCK
54	PA 550(ROUND)	C250	Ø550	Ø 810	65	WITH HINGE & SPRING LOCK
55	PA 600 CO(ROUND)	D400	Ø600	Ø 760	100	WITH 2 LOCK
56	PA DIA 762 B (ROUND)	B125	Ø762	Ø 1035	115	
57	PA HINGE 600 D SQUARE FRAME	D400	Ø600	850X850	100	WITH HINGE & SPRING LOCK
58	PA HINGE 600 B SQUARE FRAME	B125	Ø600	750X750	60	WITH HINGE & SPRING LOCK
59	PA 700 D (ROUND)	D400	Ø700	960X960	150	WITH 3 LOCK
60	PA DIA590 C	C250	Ø590	Ø740	100	WITH HINGE & LOCK
61	PA DIA590 D	D400	Ø590	Ø740	100	WITH HINGE & LOCK
62	PA DIA570 B (DIA 22.5" CO)	B125	Ø570	Ø735	100	
63	PA DIA600,100MM WITH HINGE	D400	Ø600	Ø 810	100	WITH HINGE & 2 LOCK
64	PA DIA600,150MM WITH HINGE	D400	Ø600	Ø 810	150	WITH HINGE & 2 LOCK
65	PA DIA600,100MM WITHOUT HINGE	D400	Ø600	Ø 820	100	WITHOUT HINGE & 3 LOCK
66	PA DIA600,150MM WITHOUT HINGE	D400	Ø600	Ø 820	150	WITHOUT HINGE & 3 LOCK
67	PA DIA600, 100MM WITH HINGE BLOCK	D400	Ø600	Ø 810	100	WITH HINGE & 3 LOCK
68	PA DIA 560 D SG WITH HINGE	D400	Ø560	Ø710	100	COVER & SAFY GRID WITH HINGE

FEATURES

- Manufacturing standard : BS EN 124
- Material : Ductile Iron (As per ISO 1083)
- Large Open area for water drainage

Options

- Black Bitumen coating / Epoxy coating
- Hinged type
- Badging Optional

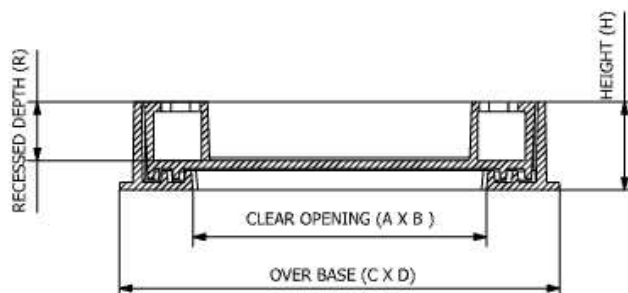
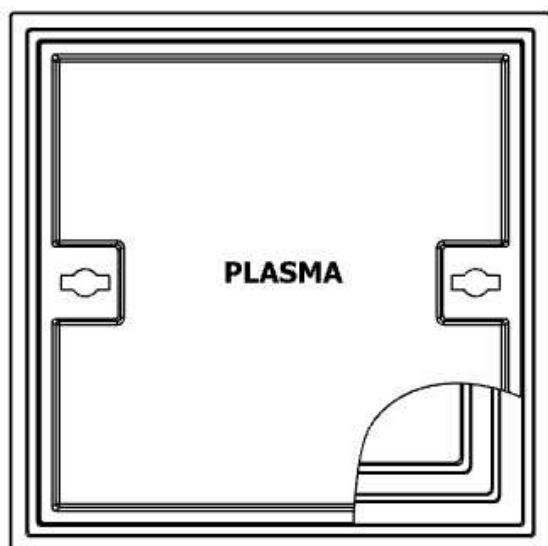
SR No.	ITEM CODE	LOAD CLASS (IN KN)	CLEAR OPENING (IN MM)	OVER BASE (IN MM)	HEIGHT (IN MM)	REMARK
71	PA 303BR	B125	300X300	400X400	85	60 MM RECESSED DEPTH
72	PA 303CR	C250	300X300	410X410	90	60 MM RECESSED DE
73	PA 560 BR (ROUND)	B 125	Ø 560	640X640	80	60 MM RECESSED DEPTH
74	PA 606 BR	B125	600X600	700X700	90	60 MM RECESSED DE
75	PA 606 DR	D 400	600X600	750X750	110	80 MM RECESSED DEPTH
76	PA 757 DR	D 400	750X750	900X900	130	100 MM RECESSED DEPTH
77	PA 808 DR	D400	800X800	1020X1020	130	100 MM RECESSED DEPTH
78	PA DT 101 DR	D 400	1000X1000	1150X1150	130	100 MM RECESSED DEPTH (DOUBLE TRIANGULAR)
80	PA CW4 R	D400	915X460	1110X655	100	80 MM RECESSED DEP
81	PA DT CW3 DR	D400	696X1830	850X1984	160	100 MM RECESSED DEPTH (6 TRIANGULAR COVER)
82	PA DT CW2 DR	D400	696X1220	850X1374	160	100 MM RECESSED DEPTH (4 TRIANGULAR COVER)
83	PA DT 606 DR	D400	600X600	750X750	110	80MM RECESSED DEPTH (DOUBLE TRINGULAR)

FEATURES

- Manufacturing standard : BS EN 124
- Material : Ductile Iron (As per ISO 1083)
- Large Open area for water drainage

Options

- Black Bitumen coating / Epoxy coating
- Hinged type
- Badging Optional



SR No.	ITEM CODE	LOAD CLASS (IN KN)	CLEAR OPENING (IN MM)	OVER BASE (IN MM)	HEIGHT (IN MM)	REMARK
96	PA 3030 BR	B125	300X300	440X440	85	60 MM RECESSED DEPTH
97	PA 3030 CR	C250	300X300	440X440	85	60 MM RECESSED DEPTH
98	PA 3030 DR	D 400	300X300	450X450	110	80 MM RECESSED DEPTH
99	PA 4545 BR	B125	450X450	600X600	97	70 MM RECESSED DEPTH
100	PA 4545 CR	C250	450X450	600X600	97	70 MM RECESSED DEPTH
101	PA 4545 DR	D 400	450X450	600X600	100	60 MM RECESSED DEPTH
102	PA 6060 BR	B125	600X600	750X750	90	60 MM RECESSED DEPTH
103	PA 6060CR	C250	600X600	750X750	100	60 MM RECESSED DEPTH
103 A	PA 6060CR A	C250	600X600	740X740	86	60 MM RECESSED DEPTH
104	PA 6060 DR	D 400	600X600	740X740	86	60 MM RECESSED DEPTH
105	PA 6075 DR	D400	600X750	750X900	125	100 MM RECESSED DEPTH
106	PA DT 6075 DR	D400	750X600	900X750	125	100 MM RECESSED DEPTH (DOUBLE TRIANGULAR)
107	PA DT 7575 DR	D 400	750X750	950X950	140	100 MM RECESSED DEPTH (DOUBLE TRIANGULAR)
108	PA 9090 DR	D 400	900X900	1150X1150	130	100 MM RECESSED DEPTH
109	PA 6060 BR 2	B125	600X600	740X740	96	70 MM RECESSED DEPTH
110	PA 6060 DR 2	D 400	600X600	740X740	96	70 MM RECESSED DEPTH
110 A	PA 6060 DR 3	D400	600X600	740X740	96	70MM RECESSED DEPTH
108 A	PA DT 9090 DR	D400	900X900	1150X1150	130	100MM RECESSED DEPTH (DOUBLE TRINGULAR)

FEATURES

- Manufacturing standard : BS EN 124
- Material : Ductile Iron (As per ISO 1083)
- Large Open area for water drainage

Options

- Black Bitumen coating / Epoxy coating
- Hinged type
- Badging Optional

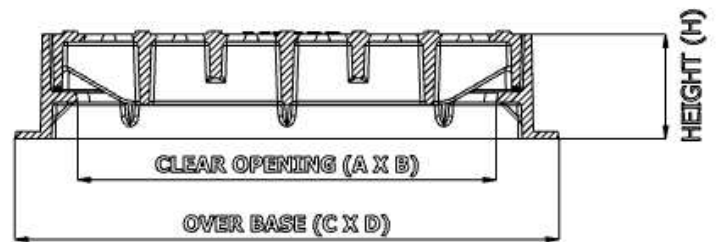
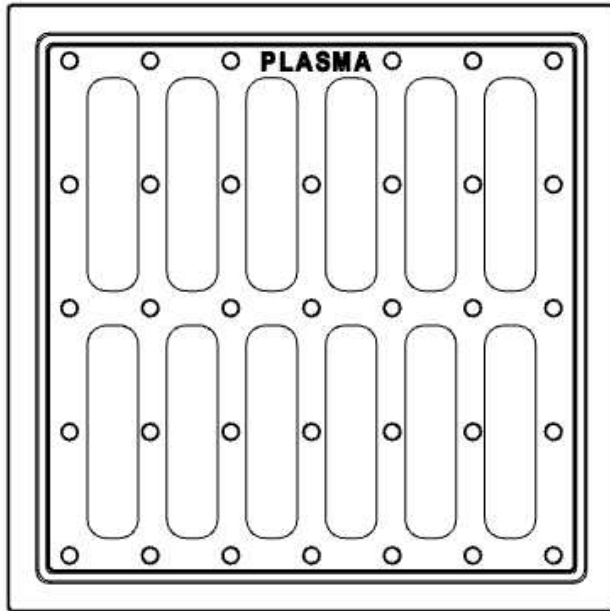
SR No.	ITEM CODE	LOAD CLASS (IN KN)	CLEAR OPENING (IN MM)	OVER BASE (IN MM)	HEIGHT (IN MM)	REMARK
111	PA DT 1515 D	D400	150X150	250X250	100	
112	PA DT-6060D	D400	600X600	780X780	100	
113	PA DT SC-600D	D400	600X600	760X760	100	TWO HALF ROUND (ROUND TYPE)
114	PA DT 675 675 D	D400	675X675	825X825	100	
115	PA DT 675 D	D400	Ø675	850X850	100	
116	PA DT 750 D	D400	Ø750	930X930	100	
117	PA DT 7575 D	D400	750X750	850X850	100	
117 A	PA DT 7575 DA	D400	750X750	900X900	100	
118	PA DT 900X1200 D	D400	900X1200	1050X1350	100	WITH HINGE AND LOCK
120	PA DT CW2	D400	700X1224	850X1374	160	WITH HINGE AND LOCK
121	PA DT JRC-12	D400	696X1220	850X1374	160	
122	PA DT CW3	D400	700X1834	850X1984	160	WITH HINGE AND LOCK
123	PA DT JRC-14	D400	696X1830	850X1984	160	
124	PA DT 6075 D	D 400	600X750	750X900	100	
125	PA DT 6090 D	D 400	600X900	750X1050	100	
126	PA DT 460X915B	B 125	460X915	610X1065	75	
127	PA DT 1010 D	D 400	1000X1000	1180X1180	100	
128	PA DT 675675 D 2 GP	D400	675X675	800X800	100	

FEATURES

- Manufacturing standard : BS EN 124
- Material : Ductile Iron (As per ISO 1083)
- Large Open area for water drainage

Options

- Black Bitumen coating / Epoxy coating
- Hinged type
- Badging Optional



SR No.	ITEM CODE	LOAD CLASS (IN KN)	CLEAR OPENING (IN MM)	OVER BASE (IN MM)	HEIGHT (IN MM)	REMARK
136	PA G 3030D	D400	300X300	420X420	60	
137	PA G 370X430 D	D400	370X430	514X520	100	WITH HINGE
138	PA P.D 3	C250	440X440	500X500	38	
139	PAG DT 4545 D	D 400	450X450	570X570	100	
140	PA G 5060 D	D400	500X600	680X780	45	WITH HINGE
140 A	PAG 5060 DA	D400	500X600	680X780	45	WITH HINGE
141	PA G 606 B	B125	600X600	750X750	35	
142	PA GG DT 6060D	D400	600X600	688X755	100	
143	PA HINGE 600GRATING	D400	Ø600	Ø 810	100	WITH HINGE
144	PA P.D 4	C250	545X545	600X600	38	
145	PA G 6075 B	B125	600X750	735X860	45	
146	PA G 8080 D	D400	800X800	950X950	100	
147	PA G 150 D (ROUND)	D400	Ø150	Ø 250	100	
148	PA G 7070 D	D 400	700X700	850X850	100	
149	PA G 4040 D	D 400	400X400	520X520	100	
150	PA G 4545 D	D 400	450X450	560X560	100	
151	PA G 29X29 D	D400	560X560	735X735	100	
152	PA G 4545 C	C250	450X450	620X620	95	
153	PA G 6060 C	C250	600X600	675X675	95	
154	PAG DT 6060 D2	D400	600X600	755X755	100	
155	PA G DT 6060 D3	D400	600X600	750X690	100	3 SIDE FLANGE
156	PA G 4141 D	D400	410X410	570X505	100	WITH HINGE

FEATURES

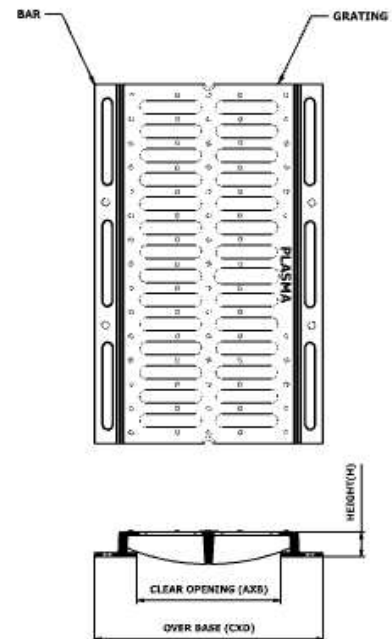
- Manufacturing standard : BS EN 124
- Material : Ductile Iron (As per ISO 1083)
- Large Open area for water drainage

Options

- Black Bitumen coating / Epoxy coating
- Hinged type
- Badging Optional

GRATING WITH BAR/WITHOUT BAR

SR No.	ITEM CODE	LOAD CLASS (IN KN)	CLEAR OPENING (IN MM)	OVER BASE (IN MM)	HEIGHT (IN MM)
161	PA G 2075 D	D400	165X750	200X750	45
161A	PA G 2075 DA	D400	162X750	200X750	30
162	PA G 2575 D	D400	215X750	250X750	45
163	PA G 3075D	D400	245X750	300X750	45
164	PA G 3075 C	C250	245X750	300X750	45
165	PA G 3575 D	D400	300X750	350X750	45
166	PA G 4075D	D400	345X750	400X750	45
167	PA G 6075 D	D 400	600X750	655X750	42
168	PA G 1010 D	D 400	1000X1000	1074X1000	65
169	PA G 4575 D	D 400	400X750	455X750	45
170	PA G 300X750 CO D	D400	300X750	338X750	25
171	PA G9045 B(ONLY GRATING)	B125	NA	850X400	20
172	PA G9060 B(ONLY GRATING)	B125	NA	850X550	20
173	PA G 5075 D	D 400	500 X 750	555 X 750	42

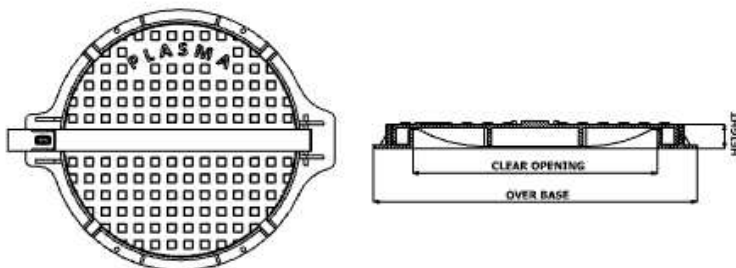


FOOT STEPS

SR No.	ITEM CODE	OVER BASE (IN MM)	REMARK
171	PA CW2 - ACCESSORIES	150X250	
172	PA 8350	122X180	

KERB GRATING

SR No.	ITEM CODE	LOAD CLASS (IN KN)	CLEAR OPENING (IN MM)	OVER BASE (IN MM)	HEIGHT (IN MM)	REMARK
174	PA KG 1000X1000 B	B125	1000X1000	1125X1180	160	



TANK COVER

SR No.	ITEM CODE	LOAD CLASS (IN KN)	CLEAR OPENING (IN MM)	OVER BASE (IN MM)	HEIGHT (IN MM)	REMARK
175	PA 600 CO (ROUND)	C250	600	720	35	
176	PA 600 CO (ROUND)	B125	600	720	30	

FEATURES

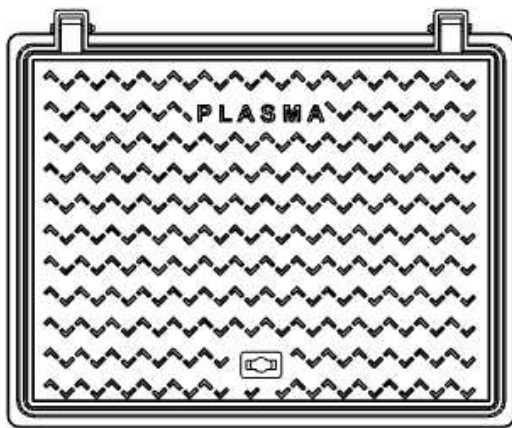
- Manufacturing standard : BS EN 124
- Material : Ductile Iron (As per ISO 1083)
- Large Open area for water drainage

Options

- Black Bitumen coating / Epoxy coating
- Hinged type
- Badging Optional

COVER WITHOUT FRAME

SR No.	ITEM CODE	LOAD CLASS (IN KN)	ITEM CODE	WEIGHT (IN KG)	REMARK
181	400X400 COVER	D400	476X476	28.5	
182	550X550 COVER	D400	626X626	46	
183	800X550 COVER	D400	876X626	65	TWO RACTANGULAR COVERS
184	1165X550 COVER	D400	1241X626	103	TWO RACTANGULAR COVERS
185	1165X680 COVER	D400	1241X876	138	TWO RACTANGULAR COVERS



LIGHT SERIES

SR No.	ITEM CODE	LOAD CLASS (IN KN)	CLEAR OPENING (IN MM)	OVER BASE (IN MM)	HEIGHT (IN MM)	WEIGHT (IN KG)	REMARK
L-1	12 X 12 OB LIGHT WITH HINGE	B125	240X240	305X305	20	5	
L-2	18 X 18 OB LIGHT WITH HINGE	B125	394X394	457X457	20	10	
L-3	18 X 24 OB LIGHT WITH HINGE	B125	383X536	457X610	20	13	
L-4	24X24 OB LIGHT WITH HINGE	B125	523X523	610X610	20	19	
L-5	265X265 CO LIGHT	B125	265X265	315X315	25	5	
L-6	300X300 CO LIGHT	B125	300X300	350X350	25	7	

SURFACE BOX

SR No.	ITEM CODE	LOAD CLASS (IN KN)	CLEAR OPENING (IN MM)	OVER BASE (IN MM)	HEIGHT (IN MM)	WEIGHT (IN KG)	REMARK
201	PA DIA 190 CI D	-	190	270	135	15	
202	PA DIA 280 CI D	-	280	370	140	28	
203	PA DIA 350 CI D	-	350	420	140	35	

FEATURES

- Manufacturing standard : BS EN 124
- Material : Ductile Iron (As per ISO 1083)
- Large Open area for water drainage

Options

- Black Bitumen coating / Epoxy coating
- Hinged type
- Badging Optional



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Scan for location



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