

MANHOLE COVERS & ENGINEERING CASTINGS

DESIGN • CAST • SUPPLY



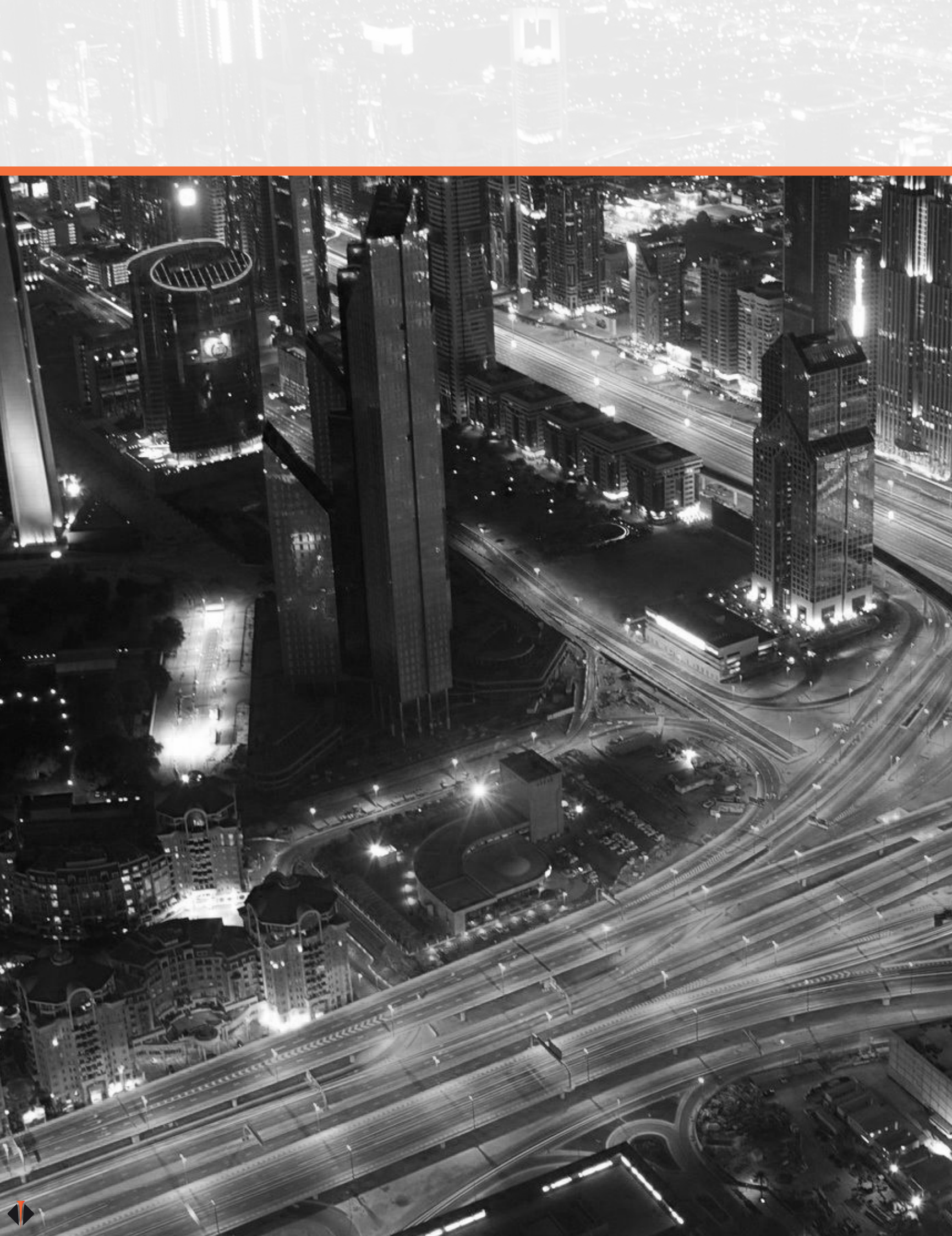


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MD'S MESSAGE

As Ducast approaches its 25th anniversary, I look back in time where in the year 1996 we started off with a small group of hardworking employees who are still around to celebrate this milestone. Ducast has emerged as the most reliable and prominent manufacturer for Ductile Iron castings. Manhole covers being our main product, we have outshone the Manhole Cover market in the Gulf and are now trusted as the supplier of choice. Capitalizing on select opportunities which include strategic expansion, efficient marketing and excellent coordination between the sales and production teams helped us to emerge as the fastest growing manufacturer and supplier of manhole covers in the Middle East.

We have been successfully supporting and providing manhole solutions to UAE's major government bodies during the well-paced growth of the country and will continue doing so. As part of our ongoing efforts we are extending our production facility with our up coming state-of-the-art facility in UAE's capital Abu Dhabi (KIZAD). We are well poised to double our production capacity once the facility is fully operational. Adding the latest technology of Greensand and No-Bake moulding system to our wide array of equipment and machinery will ensure more accurate and best possible product quality. Moreover the enhanced production capacity will facilitate us to explore new markets in the Middle East that were not reached out to till now.

I take this opportunity to thank all the people who have been directly or indirectly involved in the success of Ducast.

Warm regards

LALIT TAURANI

OUR MISSION

- Ensuring personalized attention to customers' needs and providing effective solutions with a proactive approach.
- Ensuring that the solutions are flexible to suit each customer with a focus on high quality products, on-time deliveries and competitive prices.
- Continually building our skills and knowledge to meet the growing and diverse needs of customers.
- Sustaining our reputation as a reliable and customer-oriented Ductile Casting manufacturer in the market.
- Achieving profitable growth, operational and organizational excellence without compromising our values and business ethics.

OUR VISION

- Re-defining the standards of 'customer service by exceeding customer expectations.
- Being admired for our business values and ethics.
- Keeping our name synonymous with reliability, customer satisfaction and innovation.
- Being the "preferred choice" both for customers, suppliers and employees.

ABOUT DUCAST

Founded in 1996 in Dubai, UAE, Ducast has been at the cutting edge of technology in design, manufacture and supply of Municipality and Engineering castings. The company prides itself in being the pioneer in Ductile Casting business in GCC with an annual production capacity of over 16,000 of castings for various applications.

Ducast Factory LLC is a subsidiary of reputable Taurani Investment Limited that has diverse business activity in manufacturing, trading and services across four contents globally.

Ducast is an ISO certified company with major product line KITEMARKED as per BSI (British Standard Institution). We are technically equipped with the state-of-art-equipment and machinery and are capable of producing casting from 0.5 KG to 1 Ton in any form, shape or grade to suit any market/ client requirement.

Our entire of range of products is manufactured under the following standards:

1. EN 124 - 2 (2015) – Gully Tops and Manhole Tops for vehicular and pedestrian areas.
2. ISO 1083: 1987 – Spherical Graphical Cast Iron – Classifications
3. ISO 185: 1988 – Grey Cast Iron – Classifications
4. BS 5834: Part 1982: 2 – Surface Box Frames and Covers
5. BS 750: 1984 – Surface Box Frames and Castings

ENGINEERING CASTING

Ducast has different Moulding Systems (Green Sand, No Bake & Shell Sand), Melting Furnaces (2 Medium Frequency Furnaces and 1 High Frequency Furnace Heat Treatment Furnaces & expertise to manufacture different types of Ferrous & Non Ferrous Castings.

- Ductile Iron Castings for Scaffolding & Form-work application
- Ni-Hard Castings for mixing and other wear resistant applications
- Mn-Steel Castings for mining industries
- WCB-Steel Castings for general applications
- Low-alloy Steel Castings for bearing housing and other industrial application
- Aluminium Castings for special types of valves

HISTORY & MILESTONES



1996

Established In



2400+

Satisfied Customers



400+

Work Force



7 COUNTRIES

Our Global Footprint



STANDARDS

The entire ranges of products are manufactured in the following standards:

- EN 124-2: 2015 : Gully tops and manhole tops for vehicular and pedestrian areas.
- ISO 1083 : 1987 : Spheroidal Graphite Cast Iron – Classification.
- ISO 185 : 1988 : Grey Cast Iron – Classification.
- BS 5834 : Part2 : 1983 : Surface Box frames and covers.
- BS : 750 : 1984 : Surface Box frames and covers.
- EN 1433 : 2002 : Drainage Channels for vehicular & pedestrian area.

All major portion of these popular Ductile Iron manhole covers are Kitemarked by British Standards Institution (BSI).



QUALITY STANDARDS

Continuous assessment of quality system:

This has been achieved through an ISO-9001 2008 system, audited by BSI on annual basis. The Quality system covers castings made in Ductile Iron & Cast Iron.

We are in process of including Ni-hard, Mn-Steel, WCB and aluminum in our quality systems.



PRODUCT CERTIFICATION

For some municipal castings, such as Ductile Iron Manhole covers & frames, we have obtained certification from BSI, known as Kitemark.

These certificates corresponds to manhole covers & frames, gullies and gratings manufactured to BS EN 124: 1994. Further, Kitemark is recognized around the world as a proof that a product has been manufactured, tested and fully complies with the technical requirements of the standard.

Ducast has been and will continue to be subjected to inspection and assessment by a specialist team of BSI observers, providing independent assurance, that an acceptable quality system and supporting quality control tests are in operation.

COMPARISON BETWEEN CAST IRON & DUCTILE IRON

CAST IRON



Microstructure consists of graphite in the form of flakes which act as stress raisers.

Impact resistance is poor Under severe impact it will break.

Tensile strength is low
No elongation or Ductility
ISO 185 : 1985 Grade : 350 (Grey Cast Iron).
Tensile Strength: 350 N / mm2 Min.
Elongation : Nil.

Due to lower strength, weight of the manhole covers will be more for a specific duty.

Due to higher weight handling will be difficult.

Poor capability of vibration absorption

DUCTILE IRON



Microstructure consists of graphite in the form of spheroids acts like crack arrestors.

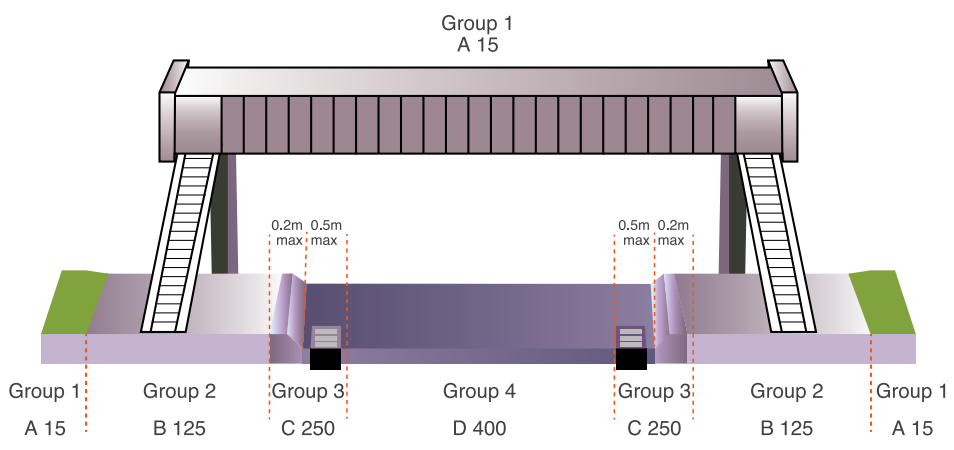
Strong impact resistance. Under sevre impact it will bend.

Tensile strength is high
Almost twice than cast iron
Moderate elongation & ductility
ISO 1083 : 1987 Grde : 500/7
Tensile Strength : 500 N / mm2 Min.
Elongation : 7% Min.

Due to high strength, weight of the manhole covers will be less (Min. 2/3rd) by weight.

Dut to low weight transportation, handling, installation and inspection is easy.

High capability of vibration absorption



GROUP	PLACE OF INSTALLATION	MINIUMUM CLASS	APPLICATION
1.	The area where pedestrian & pedal cyclists only be used	A 10	
2.	Suitable for use in car parks, footways, areas accessible to normal light vehicle traffic	B 125	
3.	Can be used only in areas of kerb side channel of roads extending up to 500mm in to the carriageway.	C 250	
4.	Suitable for hard shoulders, road carrying heavy traffic, pedestrian areas and all types of road vehicles.	D 400	
5.	Can be used for areas for fast moving and specially very heavy traffic such as docks and aircraft pavement.	E 600	
6.	Suitable for use at areas particularly involving high wheel load like aircraft pavements.	F 900	

PRODUCT LINE



- MUNICIPAL CASTINGS
- TELECOM CASTINGS
- TREE GATES

MUNICIPAL CASTINGS



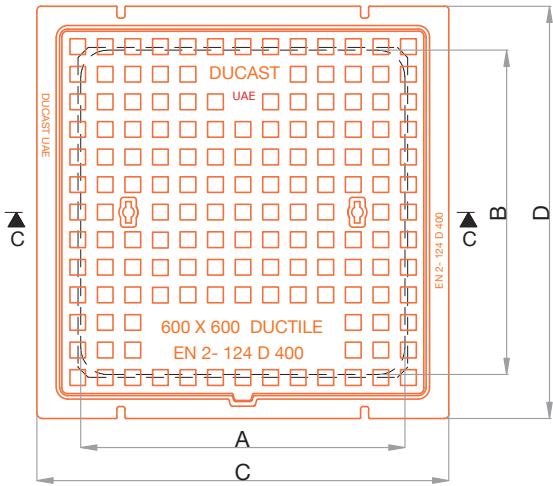
- | | | |
|--------------------------------------|---------------------------------------|--------------------------------------|
| ■ Solid Top Square Cover & Frame | ■ Hinge Type Grating & Frame | ■ Kerb Inlet Grating |
| ■ Solid Top Circular Cover & Frame | ■ Top Entry Gully Cover & Frame | ■ Pull Box Cover & Frame |
| ■ Double Traingular Cover & Frame | ■ Channel Grating & Bearer Bars | ■ Multiple Cover & Frame |
| ■ Double Semi Circular Cover & Frame | ■ Kerb Gully Cover & Frame | ■ Trench Cover Concrete Infill |
| ■ Recessed Square Cover & Frame | ■ Circular Surface Box | ■ Trench Covers |
| ■ Recessed Circular Cover & Frame | ■ Cover & Frame | ■ Concrete Infill Type Trench Covers |
| ■ Hinge Type Cover | ■ Cover & Frame for Inlet Catch Basin | ■ Concrete Infill Covers D400 |



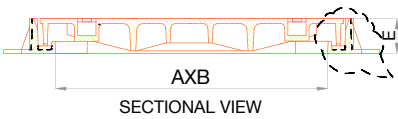
SOLID TOP SQUARE
COVER & FRAME

FEATURES

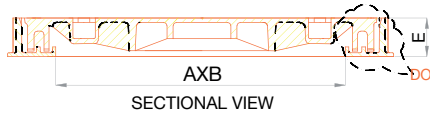
- Manufactured to EN - 124 - 2 (2015).
- Badging optional
- Paint as per customer's requirement.
- ♡ - Denotes that the product is kitemarked.



PLAN VIEW OF COVER & FRAME



SECTIONAL VIEW



SECTIONAL VIEW

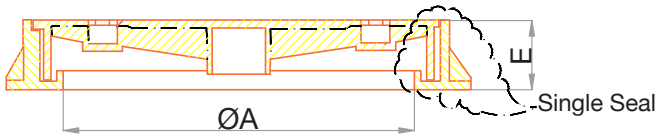
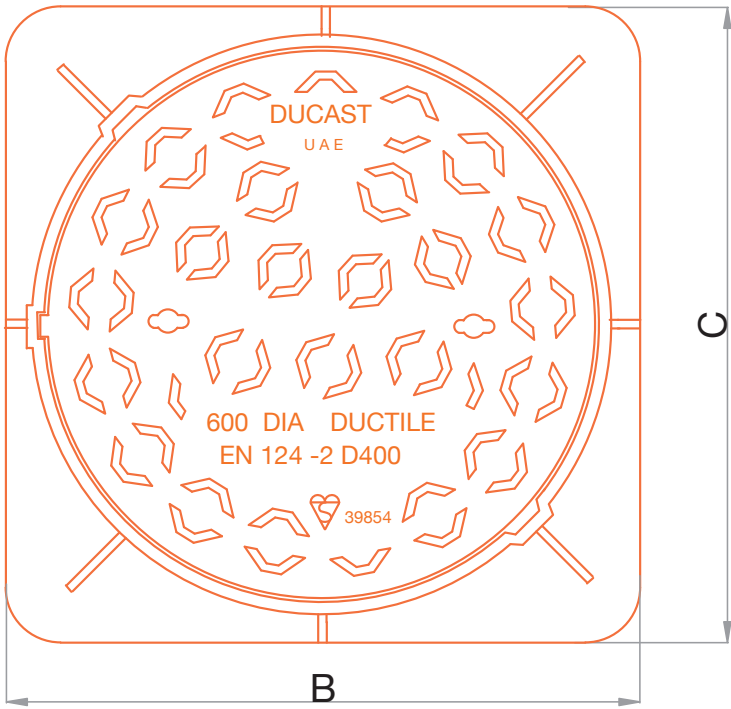
CODE	CLEAR OPENING A x B (mm)	OVER BASE C x D (mm)	FRAME DEPTH E (mm)	KITEMARK PRODUCTS	S.S / D.S	GRP SEAL PLATE PROVISION	LOADING CLASS KN
DI - 23	300 x 300	380 x 380	32	-	S.S	A	125
DI - 23A	300 x 300	426 x 426	32	-	D.S	NA	125
DI - 9	450 x 450	525 x 525	43	-	S.S	A	125
DI - 12A	600 x 600	710 x 710	48	♡	S.S	A	125
DI - 12B	600 x 600	765 x 765	43	♡	D.S	NA	125
DI - 13A	750 x 600	876 x 727	52	♡	S.S	A	125
DI - 40A	800 x 800	940 x 940	50	-	S.S	NA	125
DI-40BN	800 x 800	1000 x 1000	75	-	D.S	Y	125
DI - 35C	900 x 600	1080 x 780	45	♡	D.S	NA	125
DI-5B	900 x 900	1120 x 1120	55	-	D.S	NA	125
DI - 1D	600 x 600	735 x 735	41	♡	D.S	Y	250
DI-70C	700 x 700	820 x 820	60	-	S.S	-	250
DI - 75C	750 x 600	910 x 760	75	-	-	A	250
DI - 35B	900 x 600	1110 x 815	90	-	D.S	-	250
DI - 2B	300 x 300	390 x 390	75	-	S.S	A	D400
DI-9D	450 x 450	600 x 600	65	-	S.S	A	D400
DI-SA-1A	600 x 600	760 x 760	80	♡	S.S	A	D400
DI-SA-1B	600 x 600	760 x 760	100	-	S.S	A	D400
DI - 1BN	600 x 600	756 x 786	76	♡	D.S	A	D400
DI - 11	600 x 450	750 x 600	75	♡	S.S	A	D400
DI - 75DN	750 x 600	865 x 720	100	-	-	A	D400
DI - 36A	750 x 750	925 x 925	100	-	S.S	A	D400
DI - 40	800 x 800	1090 x 1090	75	-	D.S	-	D400
DI - 35A	900 x 600	1110 x 815	90	-	D.S	A	D400
DI - 5A	900 x 900	1075 x 1075	100	-	S.S	A	D400
DI - 10A	1000 x 1000	1210 x 1210	80	-	D.S	-	D400
DI - 1270ST	1200 x 700	1460 x 960	75	-	D.S	-	D400
DI - 29	1200 x 1200	1370 x 1370	100	-	S.S	-	D400



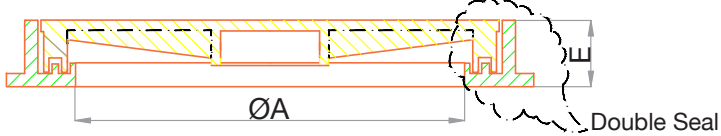
SOLID TOP CIRCULAR COVER & FRAME

FEATURES

- Manufactured to EN - 124 - 2 (2015).
- Badging optional
- Paint as per customer's requirement.
- ♡ - Denotes that the product is kitemarked.



SECTIONAL VIEW



SECTIONAL VIEW

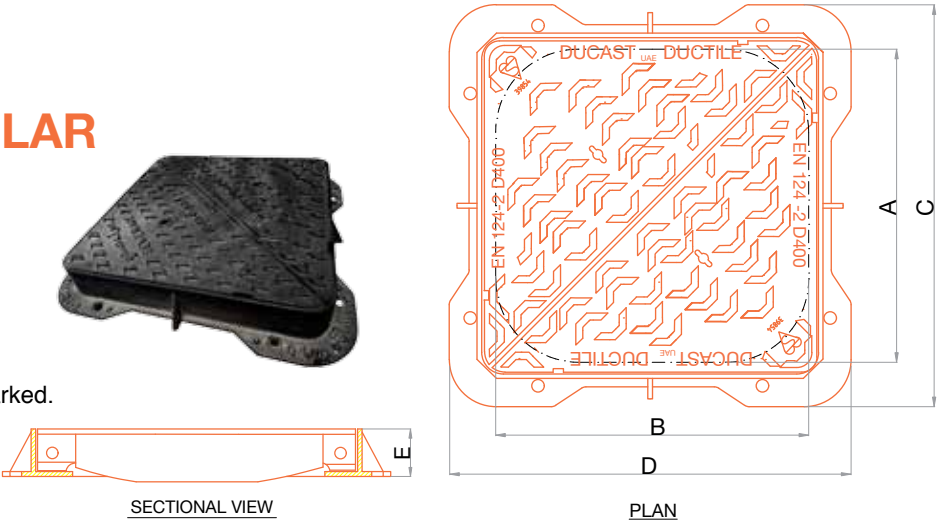
CODE	CLEAR OPENING A (mm)	OVER BASE B x C (mm)	FRAME DEPTH E (mm)	KITEMARK PRODUCTS	S.S / D.S	GRP SEAL PLATE PROVISION	LOADING CLASS KN
DI-19	600MM	750 x 750	75	♡	S.S	A	125
DI-19B	600MM	790 MM	50	-	D.S	A	125
DI-31A	Ø750	870Ø	50	♡	-	A	125
DI-90B	Ø900	1065Ø	50	-	-	A	125
DI-DIA-75C	Ø750	915Ø	75	-	-	A	C250
DI-19A	600 MM	750 x 750	75	♡	S.S	A	C250
DI-90A	Ø900	1065Ø	75	-	-	A	C250
DI-16D	300 MM	440 x 440	100	-	S.S	A	400
DI-16DS	300 MM	500 x 500	75	♡	D.S	A	400
DI-9B	400MM	550 x 550	75	-	S.S	-	400
DI-9A	450 MM	650 x 650	75	-	D.S	A	400
DI-9N	450 MM	590 x 590	65	-	S.S	A	400
DI-18	600 MM	760 x 760	100	♡	S.S	A	400
DI-18A	600 MM	750	100	-	S.S	A	400
DI-17	675 MM	805 x 805	100	♡	S.S	A	400
DI-17DS	675 MM	875 x 875	75	♡	D.S	A	400
DI-90D	Ø900	1065Ø	100	-	-	A	400
DI-33B	Ø800	950Ø	100	-	-	A	400
DI-31	Ø750	900Ø	100	-	-	A	400



DOUBLE TRIANGULAR
COVER & FRAME

FEATURES

- Manufactured to EN - 124 - 2 (2015).
- Badging optional
- Paint as per customer's requirement.
- ♡ - Denotes that the product is kitemarked.

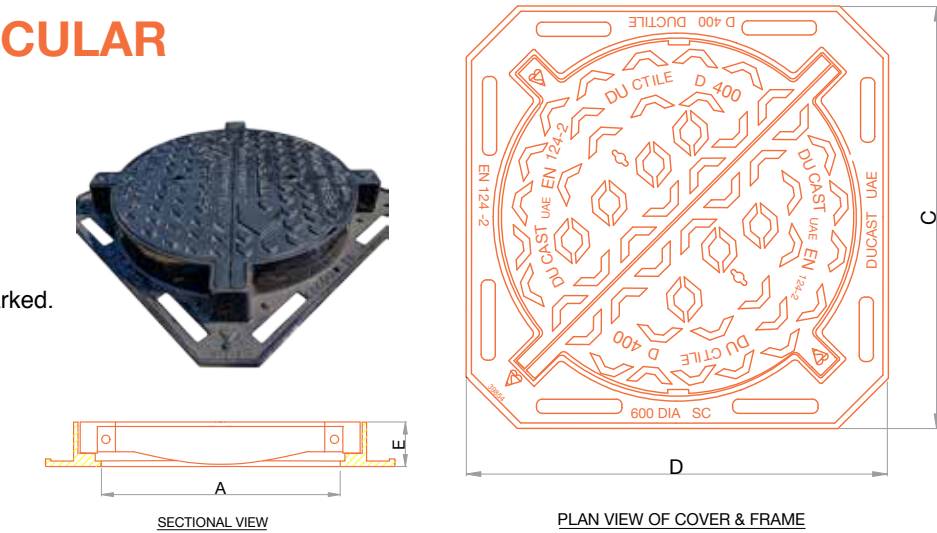


CODE	CLEAR OPENING A x B (mm)	OVER BASE C x D (mm)	FRAME DEPTH E (mm)	KITEMARK PRODUCTS	GRP SEAL PLATE PROVISION	LOADING CLASS KN
DI-2	300 x 300	410 x 410	100	♡	NA	400
DI-3M	600 x 600	770 x 770	100	♡	A	400
DI-7B	750 x 600	910 x 760	100	♡	NA	400
DI-35	900 x 600	1060 x 760	100	♡	NA	400
DI-35N	900 x 600	1060 x 760	100	♡	A	400
DI-5	900 x 900	1060 x 1060	100	♡	NA	400
DI-5G	900 x 900	1160 x 1160	100	-	A	400
DI-10G	1000 x 1000	1150 x 1150	100	♡	A	400
DI-15	675 DIA	790 x 790	100	♡	A	400
DI-15A	675 x 675	790 x 790	100	♡	A	400
DI-36CN	750 DIA	910 x 910	100	♡	A	400
DI-36SN	750 x 750	910 x 910	100	♡	A	400
DI-40E	800 x 800	930 x 930	100	-	A	400

DOUBLE SEMI CIRCULAR
COVER & FRAME

FEATURES

- Manufactured to EN - 124 - 2 (2015).
- Badging optional
- Paint as per customer's requirement.
- ♡ - Denotes that the product is kitemarked.

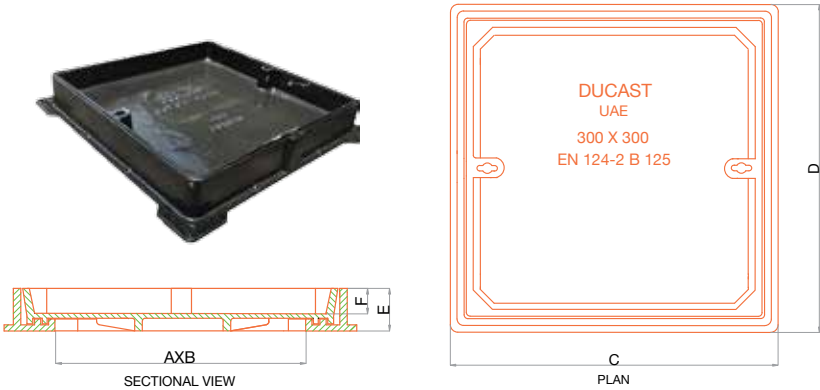


CODE	CLEAR OPENING A (mm)	OVER BASE C x D (mm)	FRAME DEPTH E (mm)	KITEMARK PRODUCTS	GRP SEAL PLATE PROVISION	LOADING CLASS KN
DI - SC1	600 DIA	750 x 750	100	♡	♡	400



RECESSED SQUARE
COVER & FRAME

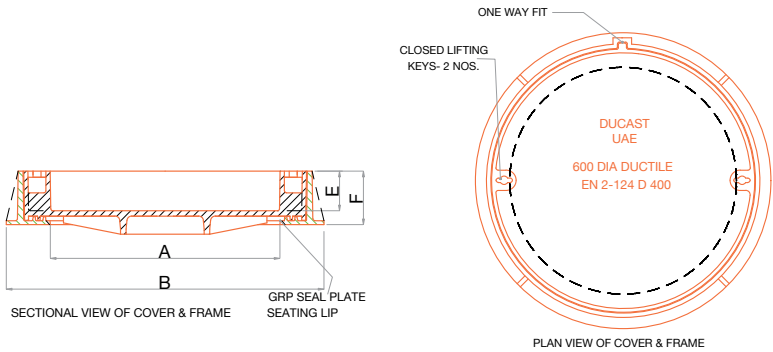
- FEATURES
- Manufactured to EN - 124 - 2 (2015).
 - Badging optional
 - Paint as per customer's requirement.
 - ♥ - Denotes that the product is kitemarked.



CODE	CLEAR OPENING A x B (mm)	OVER BASE C x D (mm)	FRAME DEPTH E (mm)	RECESSED DEPTH F (mm)	S.S / D.S	GRP SEAL PLATE PROVISION	LOADING CLASS KN
DIRC-3	300 x 300	440 x 440	75	47	D.S	NA	B 125
DIRC-14	450 x 450	595 x 595	68	35	S.S	NA	B 125
DIRC-2	600 x 450	750 x 600	75	35	S.S	NA	B 125
DI-6060RC	600 x 600	770 x 770	100	70	D.S	A	B 125
DIRC-7A	600 x 600	740 x 770	90	70	D.S	NA	B 125
DIRC-11	800 x 800	945 x 945	90	60	D.S	NA	B 125
DI-RC3A	300 x 300	565 x 565	110	80	D.S	A	D 400
DIRC-3B	300 x 300	450 x 450	135	100	S.S	A	D 400
DIRC-13	600 x 600	740 x 770	90	70	D.S	NA	D 400
DIRC-10A	600 x 600	850 x 850	115	80	D.S	A	D 400
DIRC-10B	600 x 600	850 x 850	115	100	S.S	A	D 400
DIRC-11A	800 x 800	1065 x 1065	115	80	D.S	A	D 400
DIRC-11B	800 x 800	1000 x 1000	135	100	D.S	A	D 400
DIRC-5A	900 x 600	1110 x 690	115	80	-	-	D 400
DIRC-2	600 x 450	740 x 590	75	50	S.S	A	D 400
DIRC-8	750 x 600	940 x 780	138	100	D.S	NA	D 400
DIRC-17	750 x 750	925 x 925	120	75	D.S	NA	D 400
DIRC-20A	1000 x 1000	1230 x 1230	115	80	D.S	NA	D 400

RECESSED CIRCULAR
COVER & FRAME

- FEATURES
- Manufactured to EN - 124 - 2 (2015).
 - Badging optional
 - Paint as per customer's requirement.
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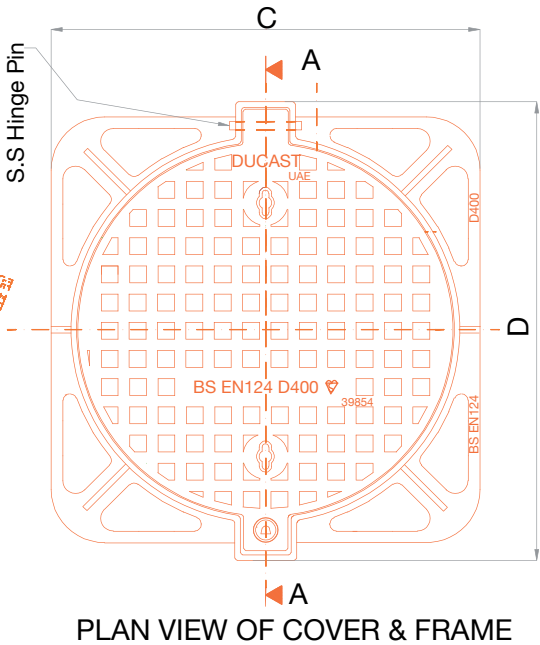
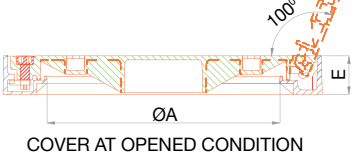
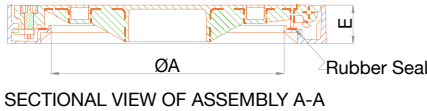
CODE	CLEAR OPENING A (mm)	OVER BASE B x C (mm)	FRAME DEPTH E (mm)	RECESSED DEPTH F (mm)	S.S / D.S	GRP SEAL PLATE PROVISION	LOADING CLASS KN
DI - 18RC	600 DIA	750 x 750	100	50	S.S	Y	400
DI - 18RCA	600 DIA	800 DIA	140	100	D.S	Y	400
DI - 17RCA	675 DIA	875 DIA	135	100	D.S	Y	400
DIRC - 19	900 DIA	1120 DIA	140	100	D.S	NA	400



HINGE TYPE
COVER

FEATURES

- Manufactured to EN - 124 - 2 (2015).
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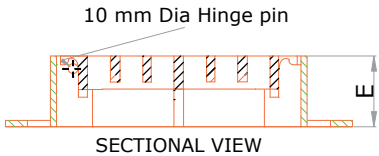


CODE	CLEAR OPENING A (mm)	OVER BASE C x D x E (mm)	DEPTH E (mm)	LOADING CLASS
DI-19D	600 DIA	755 x 720	65	B125
DI-24	600 DIA	725 x 725 x 850	100	D 400
DI-24A	600 DIA (Ascast Hinge)	725 x 725 x 850	100	D 400
DI-17H	675 DIA	815 x 815 x 865	100	D 400

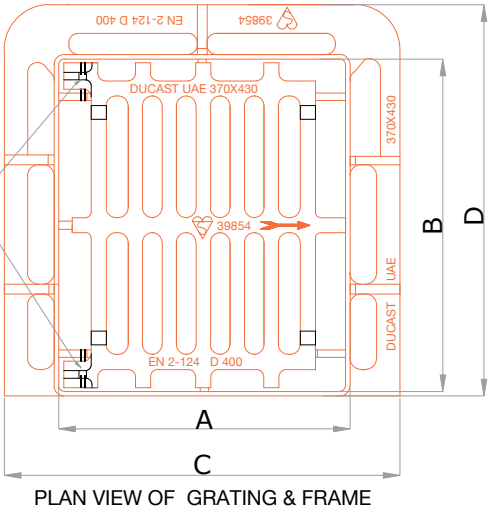
HINGE TYPE
GRATING & FRAME

FEATURES

- Manufactured to EN - 124 - 2 (2015).
- Badging optional
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Hinge Position
Frame Dia 10 mm Drill
Cover Dia 11 mm Drill
with 10 mm Dia Hinge pin

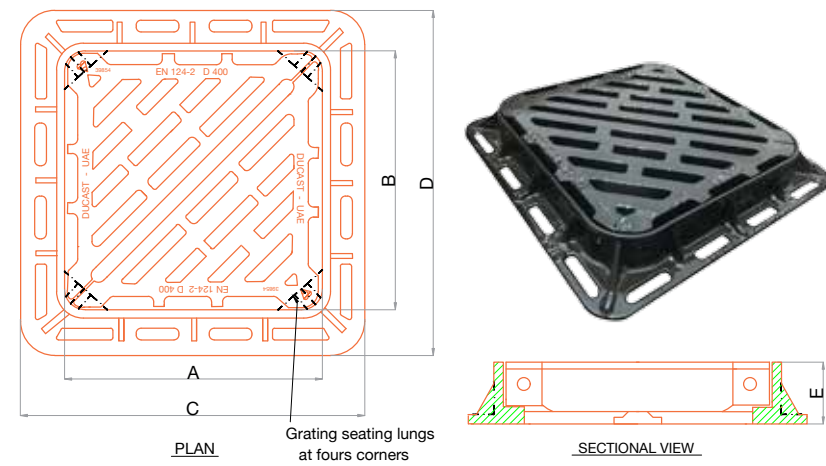


CODE	CLEAR OPENING A x B (mm)	OVER BASE C x D (mm)	FRAME DEPTH E (mm)	KITEMARK PRODUCT	LOADING CLASS KN
DI-HG-01	370 x 430	520 x 520	100	♡	D 400
DU-317H H.D	385 x 317	530 x 405	75	-	D 400
G - 4A	600 x 600	750 x 765	100	-	D 400
G - 8A	750 x 750	920 x 840	100	-	D 400
G - 3E	355 x 500	450 x 600	100	-	D 400



TOP ENTRY GULLY
COVER & FRAME

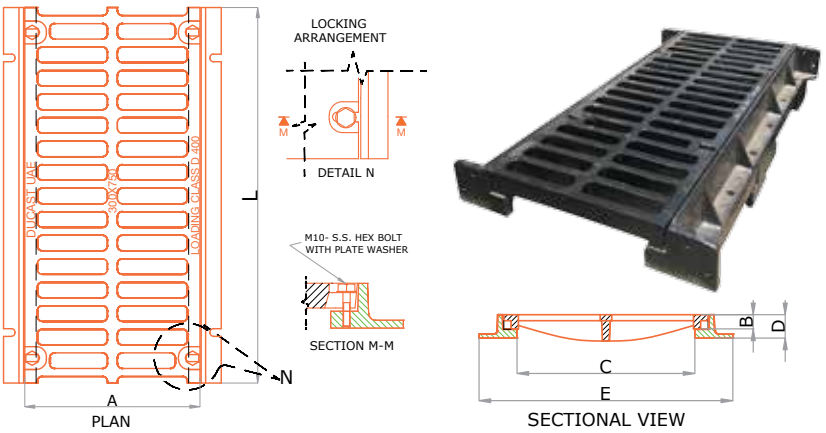
- FEATURES
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CODE	CLEAR OPENING A x B (mm)	OVER BASE C x D (mm)	FRAME DEPTH E (mm)	KITEMARK PRODUCT	LOADING CLASS KN
G-3	434 x 434	584 x 520	100	♡	400
G-3A	450 x 450	555 x 555	100	-	400
G-4	600 x 600	755 x 755	100	♡	400
G-7	700 x 700	850 x 850	100	-	400
G-8N	635 x 635	800 x 800	100	-	400
G-36	360 x 560	580 x 780	75	-	400
DI-2GD	300 x 300	440 x 440	75	-	400
DI-2G	300 x 300	400 x 400	40	-	C250

CHANNEL GRATING
& BEARER BARS

- FEATURES
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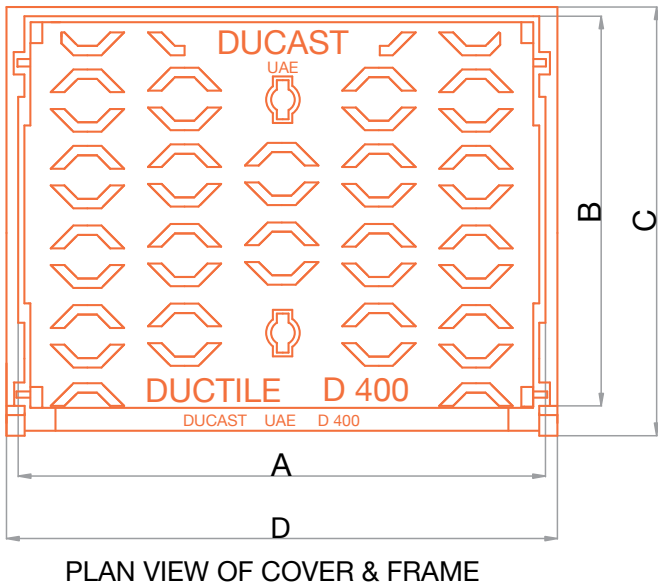
CODE	WIDTH OF GRATING A X B (mm)	GRATING DEPTH B (mm)	CLEAR OPENING C (mm)	LENGTH L (MM)	WIDTH OVERALL FRAME E (mm)	FRAME DEPTH
CH-1A	350	26	300	750	435	42
CH-2	400	26	350	750	480	42
CH-3	200	26	150	750	280	42
CH-4	250	26	200	750	330	42
CH-5	500	50	400	750	600	70
CH-6	660	37	600	610	736	52
CH-8	300	26	250	750	380	42
CH-9	500	35	450	750	600	50
CH-29	570	60	500	750	650	75
CH-10	150	43	100	750	220	55
CH-14	725	40	675	750	815	50
CH-27	800	40	750	750	890	50



KERB GULLY
COVER & FRAME

FEATURES

- Badging optional
- Paint as per customer's requirement.
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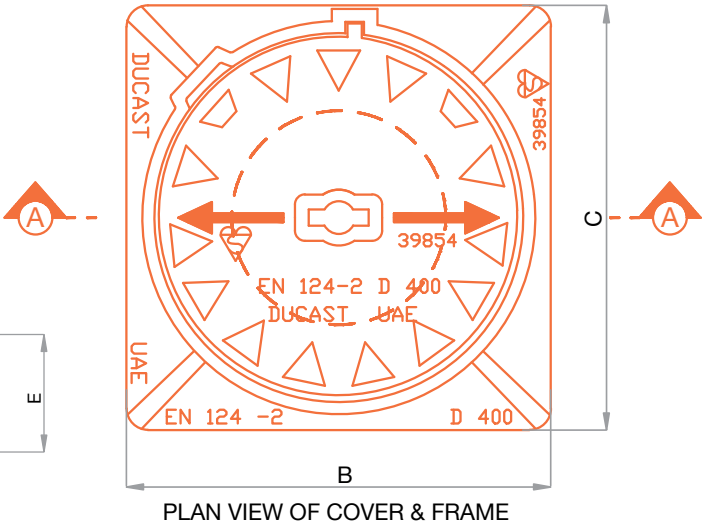
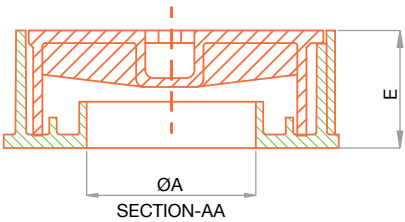


CODE	CLEAR OPENING A x B (mm)	OVER BASE C x D (mm)	FRAME DEPTH E (mm)	GRP SEAL PLATE PROVISION	KITEMARK PRODUCTS	LOADING CLASS KN
DI-K6C	505 x 490	525 x 575	150	Debris Grid	-	250
DI-K2	532 x 405	460 x 558	205	Debris Grid	-	400
DI-K3	532 x 405	492 x 610	205	Debris Grid	♡	400
DI-K4	800 x 405	875 x 500	205	Debris Grid	♡	400

CIRCULAR SURFACE
BOX COVER & FRAME

FEATURES

- Manufactured to EN - 124 - 2 (2015).
- Badging optional
- Paint as per customer's requirement.
- ♡ - Denotes that the product is kitemarked.

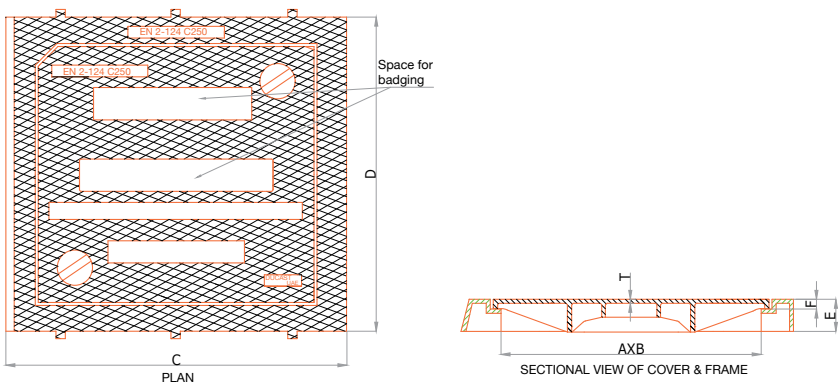


CODE	CLEAR OPENING A x B (mm)	OVER BASE C x D (mm)	FRAME DEPTH E (mm)	SEAL	GRP SEAL PROVISION	STANDARD	KITEMARK PRODUCT	LOADING CLASS KN
DI-21D	150 DIA	295 x 295	104	D.S	NA	EN 124-2015	♡	400
DI-20D-100	150 x 150	228 x 228	100	-	NA	EN 124-2015	♡	400
FH - 1	230 x 380	385 x 535	128	-	NA	BS 750 -84	♡	400

COVER AND FRAME FOR INLET & CATCH BASIN

FEATURES

- Manufactured to EN - 124 - 2 (2015).
- Badging optional
- Paint as per customer's requirement.
- ♡ - Denotes that the product is kitemarked.



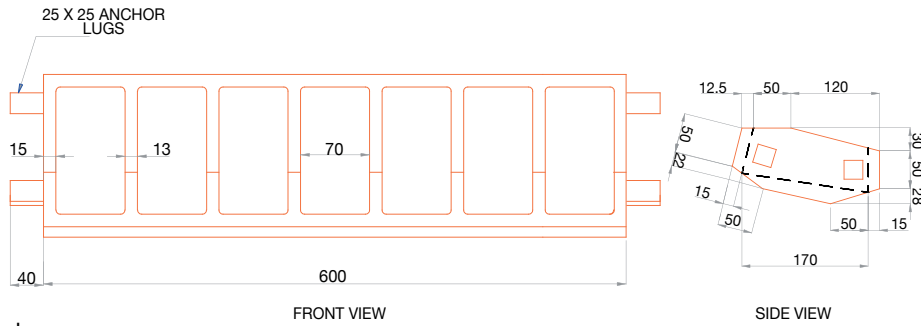
CODE	CLEAR OPENING A x B (mm)	SIZE OF COVER (mm)	OVER BASE C X D (mm)	FRAME DEPTH E (MM)	LOADING CLASS KN
CB - 1	660 x 610	705 x 665	870 x 800	80	250
CB - 4	660 x 610	705 x 665	870 x 800	40	250
CB - 5	660 x 610	705 x 665	870 x 800	80	400



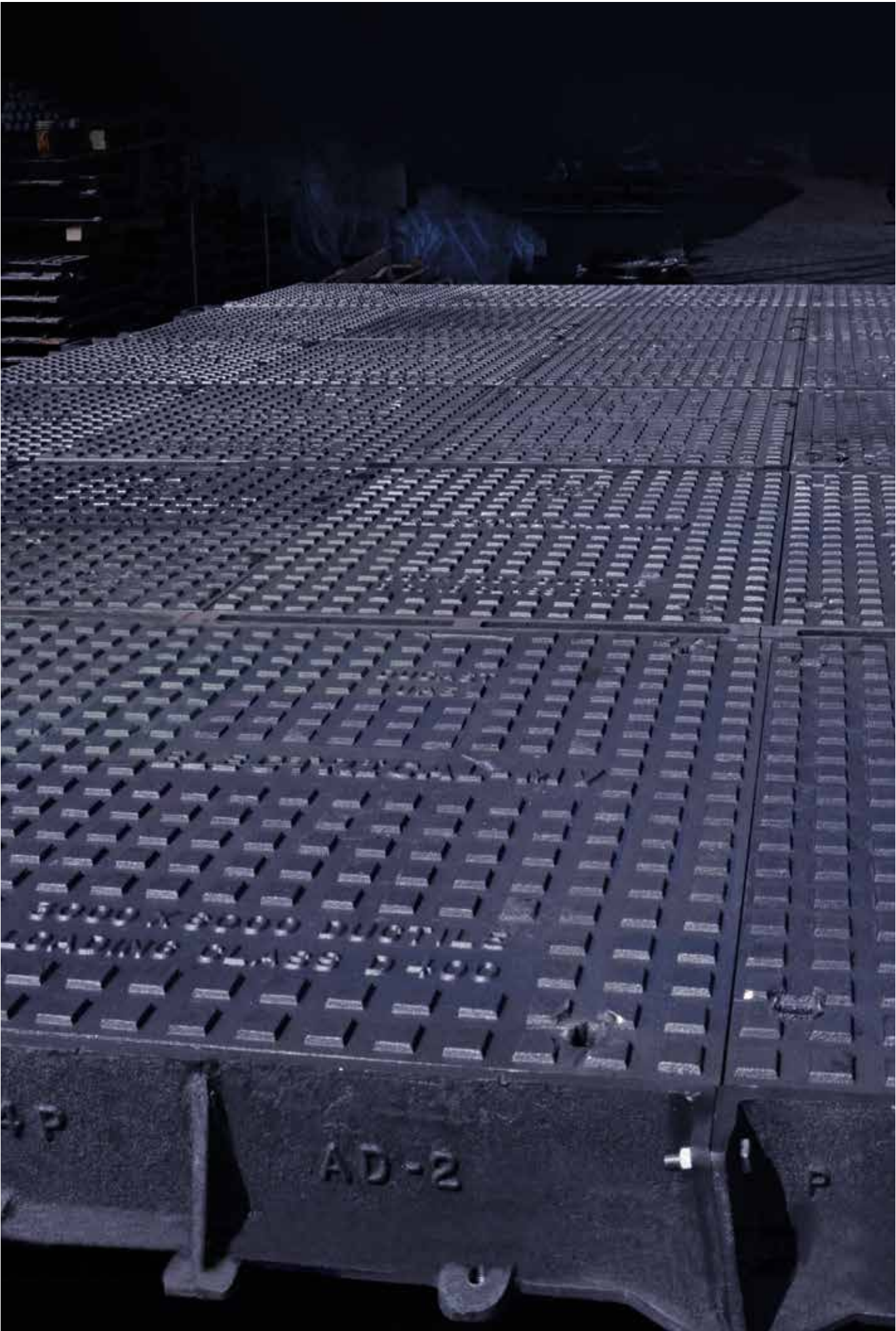
KERB INLET GRATING

FEATURES

- Manufactured to EN - 124 - 2 (2015).
- Badging optional
- Paint as per customer's requirement.
- ♡ - Denotes that the product is kitemarked.



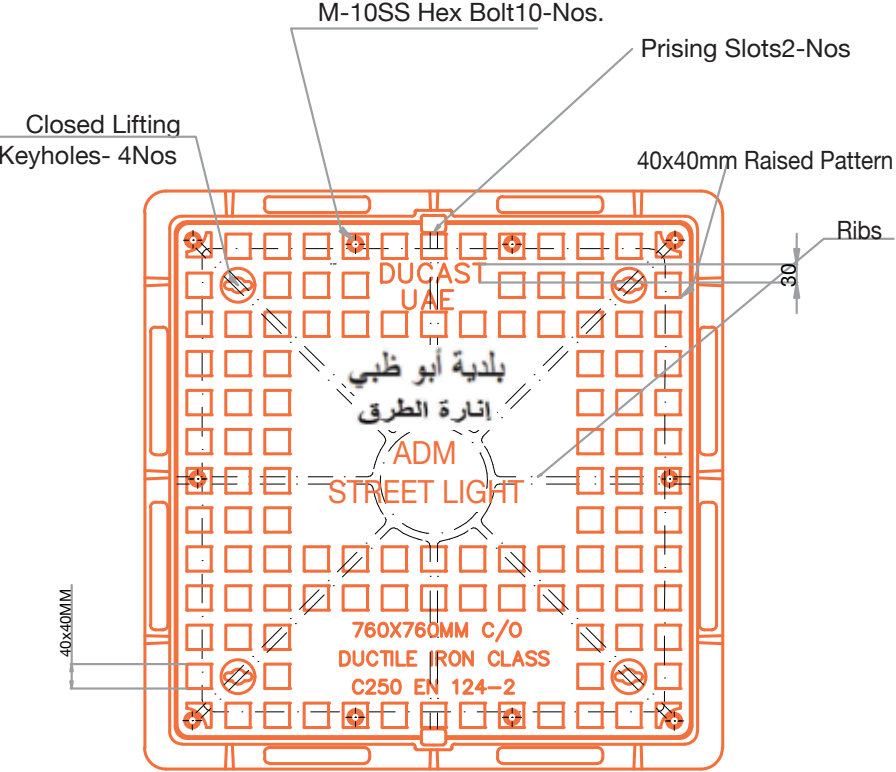
CODE	LENGTH (mm)	OPENING (mm)
CB - 1	600	170
CB-1GA	600	120
CB-2G	700	170
CB-3G	600	270
CB-4G	700	270
CB-6G	600	80
CB-7G	700	120



PULL BOX
COVER & FRAME

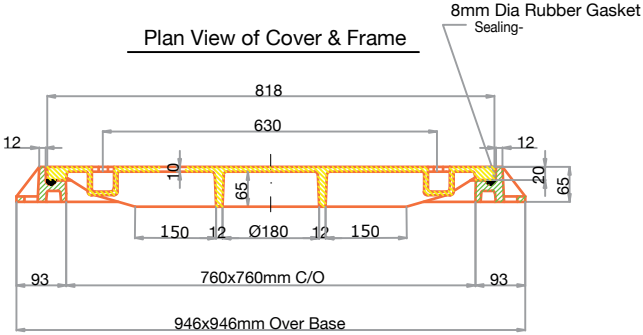
FEATURES

- Manufactured to EN - 124 - 2 (2015).
- Badging optional
- Paint as per customer's requirement.
- ⚡ - Denotes that the product is kitemarked.

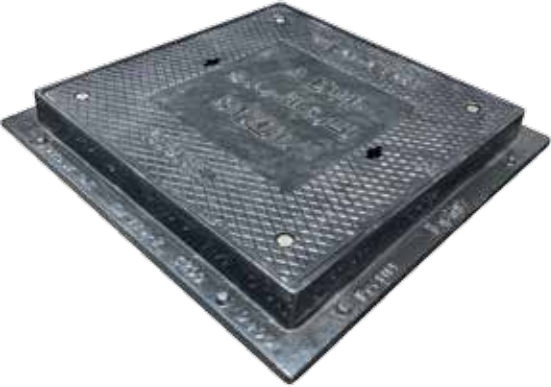


- 1. MATERIAL: DUCTILE IRON GRADE SG7/500
- 2. MANHOLE COVER LOADING CLASS C250

AS PER EN 1515- 124



Sectional View of Cover & Frame

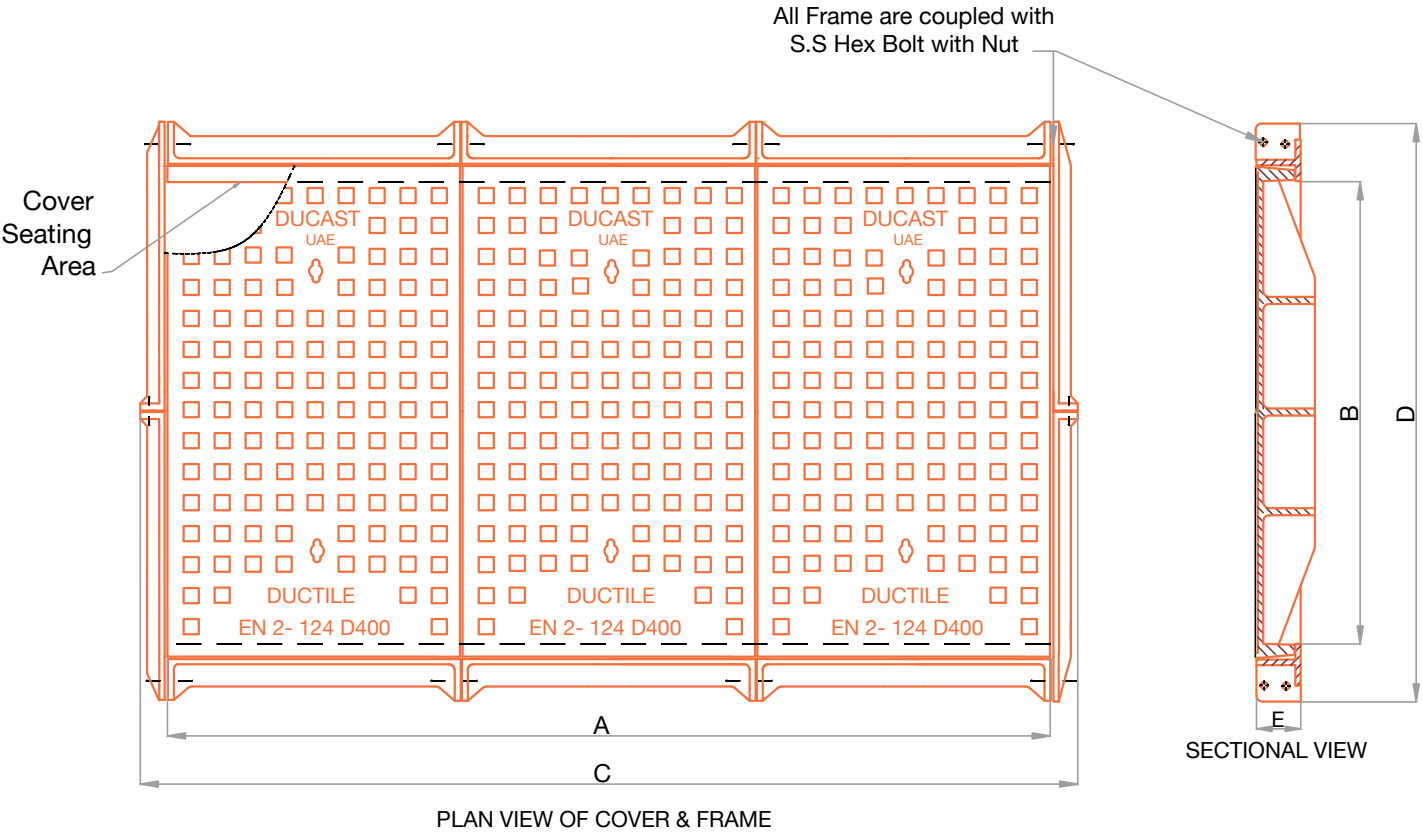


CODE	CLEAR OPENING A x B (mm)	OVER BASE B x C (mm)	FRAME DEPTH E (mm)	LOADING CLASS KN
PB - 4A	450 x 450	610 x 610	65	250
PB - 1	760 x 760	1040 x 1040	100	250
PB - 2	1200 x 1200	1480 x 1480	100	250
PB - 1N	760 x 760	946 x 946	65	250
PB - 2N	1200 x 1200	1440 x 1440	100	250
PB - 3A	750 x 750	915 x 915	100	400
PB - 6	900 x 900	10656 x 1065	100	400
PB - 2D	1200 x 1200	1480 x 1480	100	400

MULTIPLE
COVER & FRAME

FEATURES

- Manufactured to EN - 124 - 2 (2015).
- Badging optional
- Paint as per customer's requirement.
- ⚡ - Denotes that the product is kitemarked.

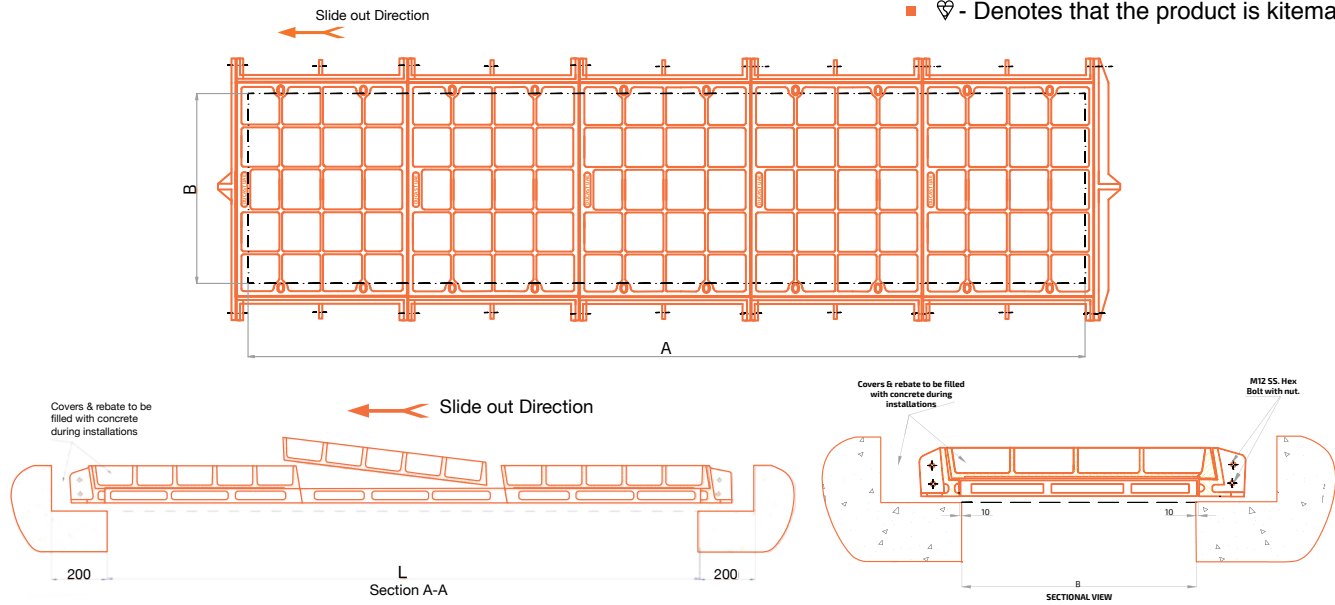


CODE	CLEAR OPENING (AXB) (mm)	OVER BASE (CXD) (mm)	FRAME DEPTH (E) (mm)	NO. OF COVERS	LOADING CLASS KM
DI-2M-1290	1200 x 900	1290 x 1090	75	2	125
DI-2M-1290	1800 x 900	1890 x 1090	75	2	125
DIML-24	1230 x 796	1330 x 920	87	2	400
DIML-16	1200 x 600	1300 x 750	87	2	400
DIML-15	1200 x 900	1290 x 1080	90	2	400
DIML-1A	1800 x 900	1890 x 1080	90	3	400
DI-2M-1470	1400 x 700	1480 x 880	87	2	400
DI-02ST-1575	1500 x 750	1600 x 930	90	2	400
DI-2M-1210	1200 x 1000	1330 x 1190	90	2	400
DI-3M-1810	1800 x 1000	1940 x 1190	90	3	400

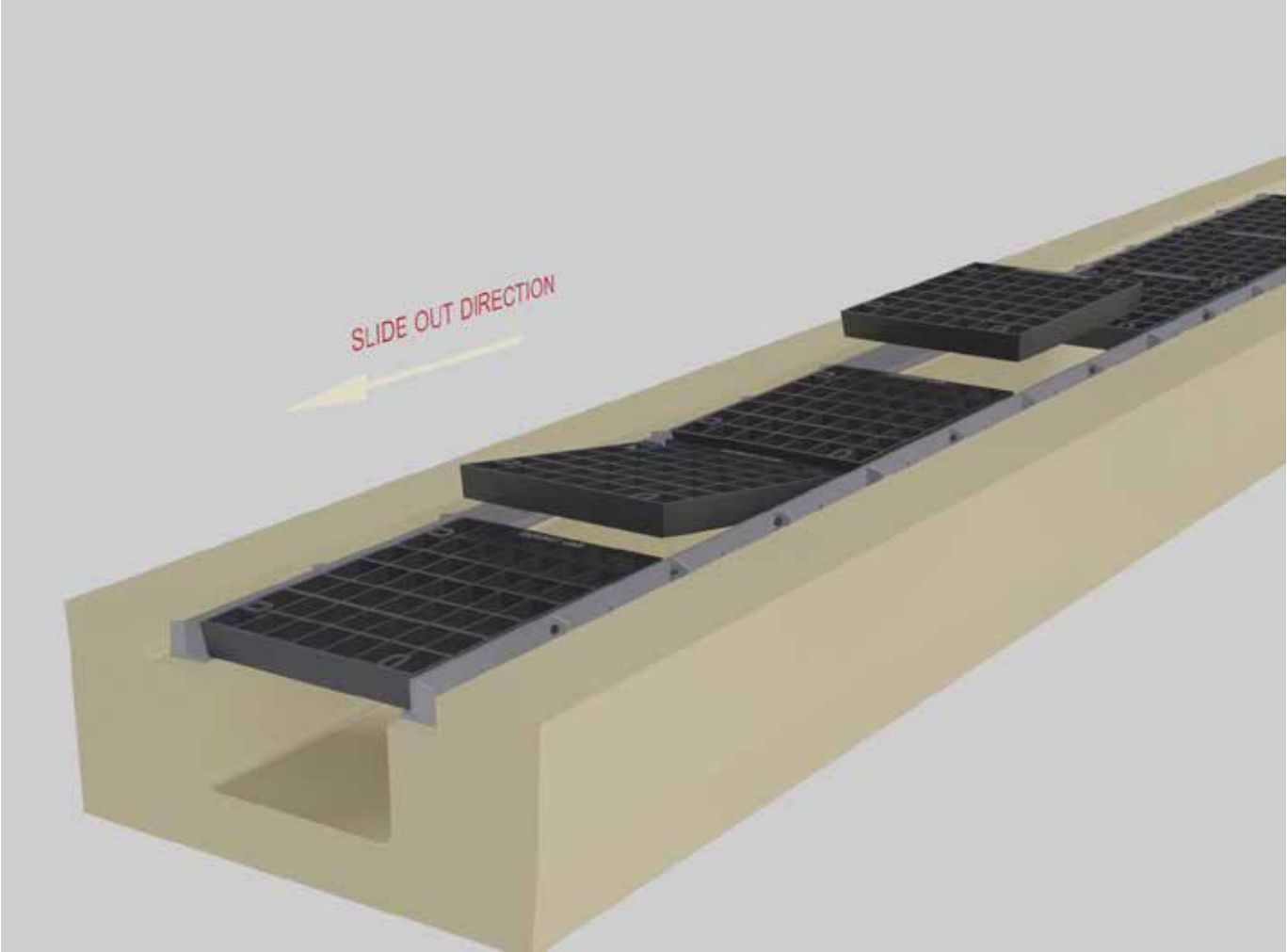
TRENCH COVER

CONCRETE INFILL TRENCH COVERS

- FEATURES**
- Manufactured to EN - 124 - 2 (2015).
 - Badging optional
 - Paint as per customer's requirement.
 - ♻ - Denotes that the product is kitemarked.



CONTINUOUS TRENCH RECESSED PUMPING STATION COVER & FRAME					
2 PART TRENCH COVER					
PIT CLEAR OPENING SPAN (B)	CLEAR OPENING (AXB) (mm)	OVER BASE (CXD) (mm)	DEPTH (E) (mm)	NO. OF COVERS	LOADING CLASS
600	1300 x 600	1570 x 870	145	2	D400
750	1300 x 750	1570 x 1030	145	2	D400
900	1300 x x900	1570 x x1170	145	2	D400
600	1300 x 600	1570 x 870	145	2	F900
900	1980 x 900	2250 x 1170	145	2	F900
3 PART TRENCH COVER					
600	1980 x 600	2250 x 870	145	3	D400
750	1980 x 750	2250 x 1030	145	3	D400
900	1980 x 900	2250 x x1170	145	3	D400
600	1980 x 600	2250 x 870	145	3	F900
900	2880 x 900	3150 x 1170	145	3	F900
4 PART TRENCH COVER					
600	2690 x 600	2950 x 870	145	4	D400
750	2690 x 750	2950 x 1030	145	4	D400
900	2690 x 900	2950 x 1170	145	4	D400
600	2690 x 600	2950 x 870	145	4	F900
900	3780 x 900	4050 x 1170	145	4	F900
5 PART TRENCH COVER					
600	3390 x 600	3690 x 870	145	5	F900
750	3390 x 750	3690 x 1030	145	5	D400
900	3390 x 900	3690 x 1170	145	5	D400
600	3390 x 600	3690 x 870	145	5	F900
900	4680 x 900	4950 x 1170	145	5	F900
CONTINUOUS AS PER REQUIREMENT					

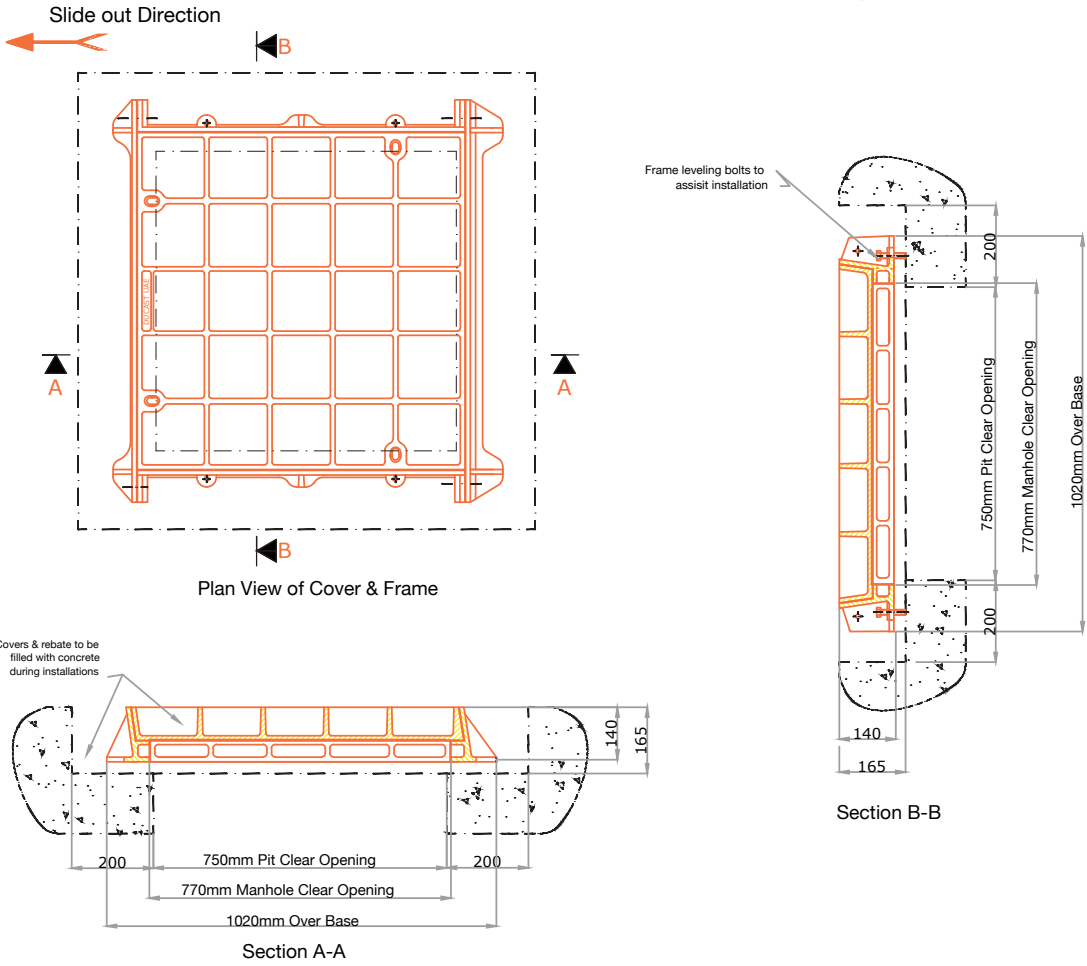




CONCRETE INFILL TYPE COVER & FRAME

FEATURES

- Manufactured to EN - 124 - 2 (2015).
- Badging optional
- Paint as per customer's requirement.
- ♡ - Denotes that the product is kitemarked.



CODE	CLEAR OPENING (AXB) (mm)	OVER BASE (CXD) (mm)	FRAME DEPTH (E) (mm)	NO. OF COVERS	LOADING CLASS KM
PS-2	600 x 750	880 x 1030	145	1	400
PS-1	600 x 900	880 x 1180	145	1	400
DW-1	750 x 750	1000 x 1020	140	1	400
PS-3	750 x 900	1000 x 1180	145	1	400
DI-1-2P	1280 x 750	1550 x 1030	145	2	400
PS-1-3P	1980 x 700	2250 x 1030	145	3	400
PS-4	1320 x 900	1580 x 1180	145	2	400
PS-5	2020 x 900	2290 x 1180	145	3	400
DI-5E-1P	600 x 1050	870 x 1320	140	1	900
DI-5E-2P	1600 x 1200	1870 x 1470	140	2	900
DW-3	1300 x 1050	1570 x 1320	140	2	900

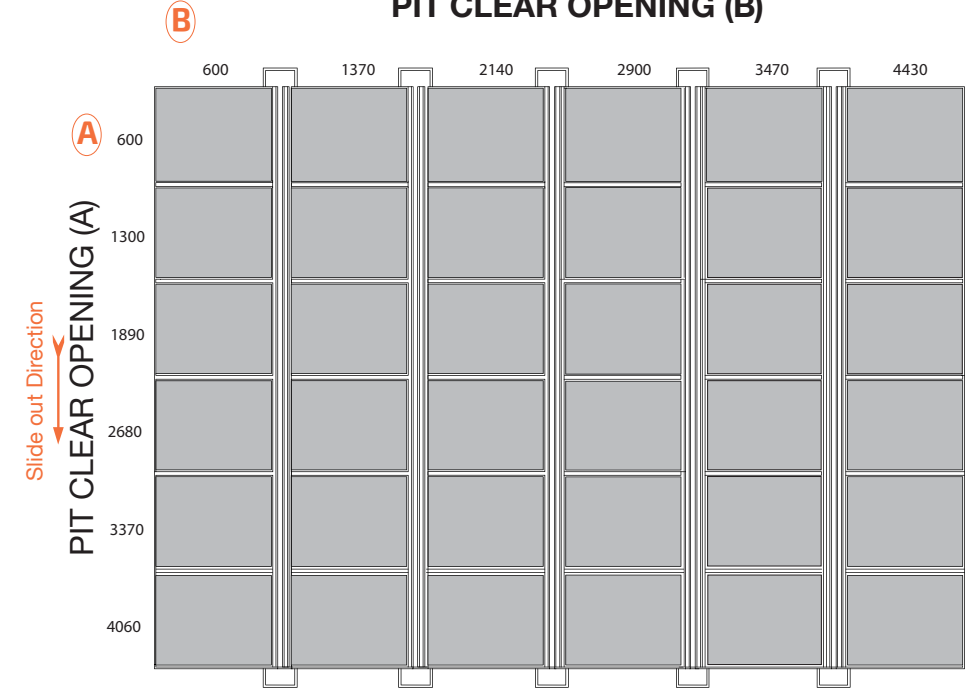
CONCRETE INFILL COVERS

D400

FEATURES

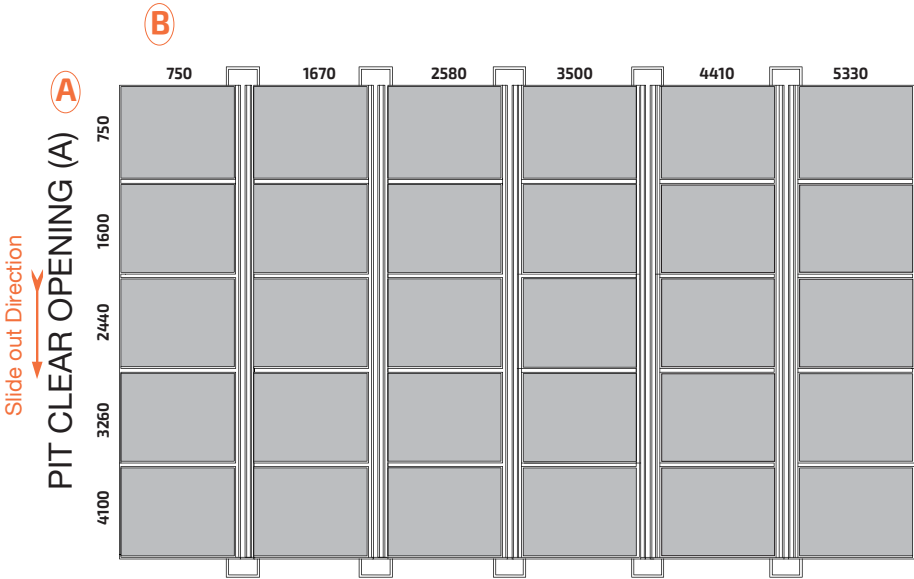
- Manufactured to EN - 124 - 2 (2015).
- Badging optional
- Paint as per customer's requirement.
- ♡ - Denotes that the product is kitemarked.

6 Part (6x6) recessed multispan cover with 5 removable support beam
PIT CLEAR OPENING (B)



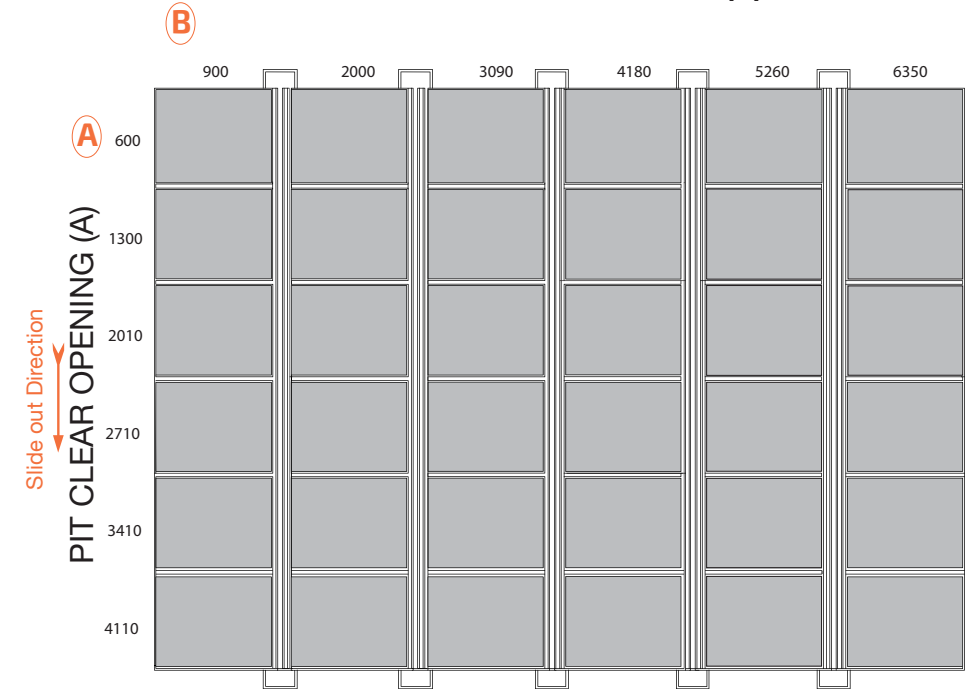
LOADING CLASS D400- PUMPING STATION RECESS COVER & FRAME PIT CLEAR OPENING (A X B)					
COVER SIZE 600 X 600 MM					
S/N	AXB	NO.COVER	S/N	AXB	NO.COVER
1300	.1X4	1370	3370	.16x10	1370
1300	.2X6	2140	3370	.17x15	2140
1300	.3X8	2900	3370	.18x20	2900
1300	.4X10	3470	3370	.19x25	3470
1300	.5X12	4430	3370	.20x30	4430
1890	.6X6	1370	4060	.21x12	1370
1890	.7X9	2140	4060	.22x18	2140
1890	.8X12	2900	4060	.23x24	2900
1890	.9X15	3470	4060	.24x30	3470
1890	.10X18	4430	4060	.25x36	4430
2680	.11X8	1370			
2680	.12X12	2140			
2680	.13X16	2900			
2680	.14X20	3470			
2680	.15X24	4430			

6 Part (6x5) recessed multispan cover with 5 removable support beam
PIT CLEAR OPENING (B)



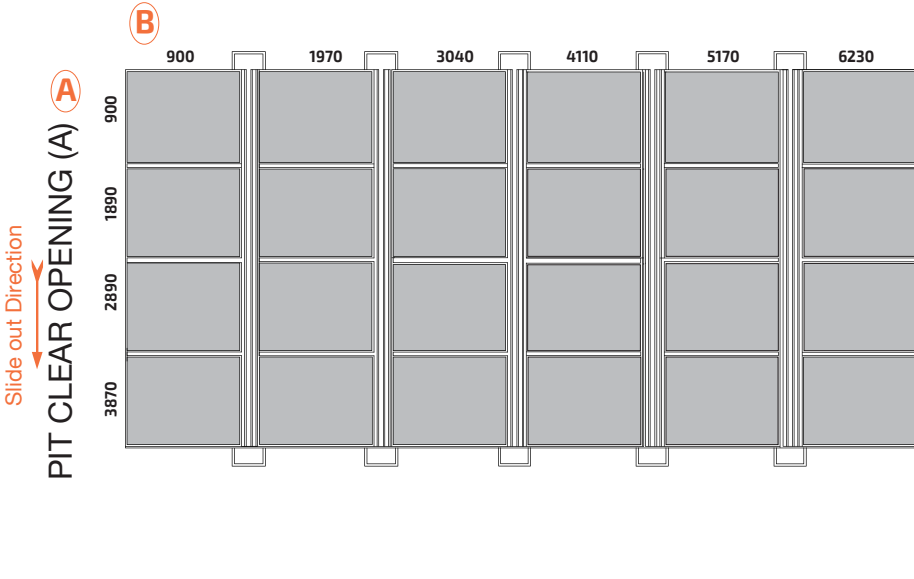
LOADING CLASS D400- PUMPING STATION RECESS COVER & FRAME PIT CLEAR OPENING (A X B)					
COVER SIZE 750 X 750 MM					
S/N	AXB	NO.COVER	S/N	AXB	NO.COVER
1600	.1X4	1670	4110	.17x10	1670
1600	.2X6	2580	4110	.18X15	2580
1600	.3X8	3500	4110	.19X20	3500
1600	.4X10	4410	4110	.20X25	4410
1600	.5X12	5330	4110	.21X30	5330
2440	.6X6	1670			
2440	.7X9	2580			
2440	.8X12	3500			
2440	.9X15	4410			
2440	.10X18	5330			
3260	.12X8	1670			
3260	.13X12	2580			
3260	.14X16	3500			
3260	.15X20	4410			
3260	.16X24	5330			

6 Part (6x6) recessed multispan cover with 5 removable support beam
PIT CLEAR OPENING (B)



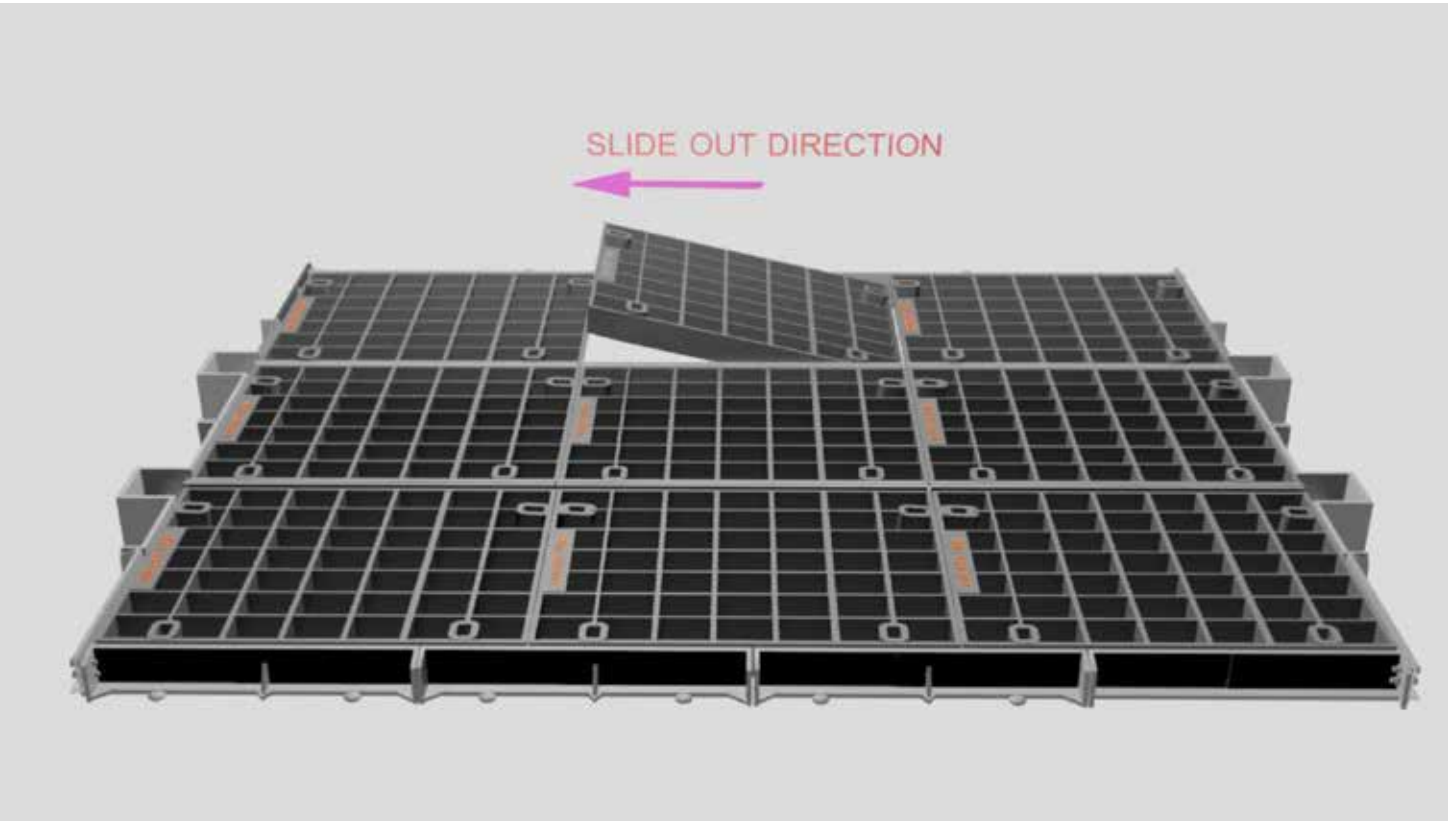
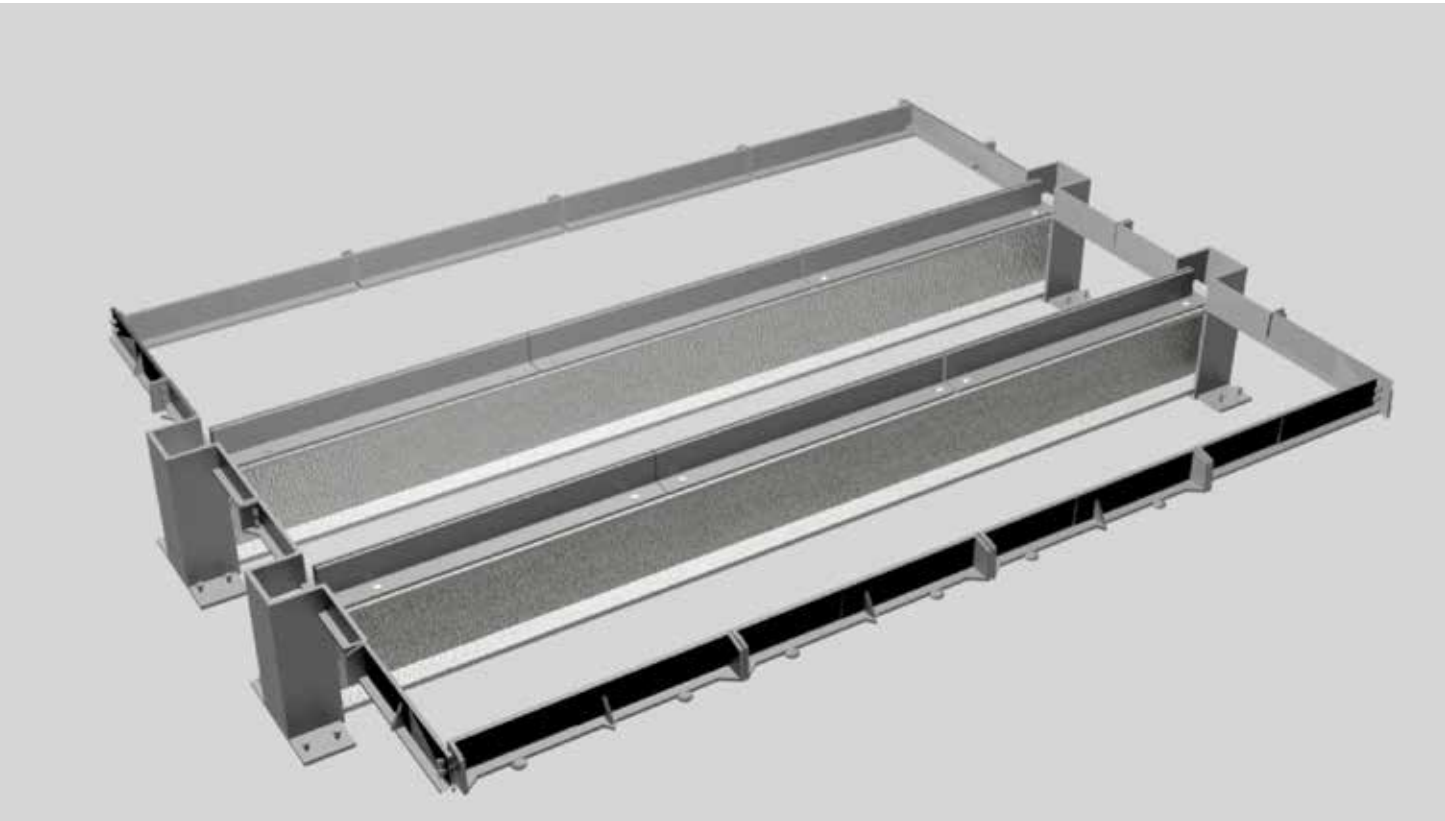
LOADING CLASS D400- PUMPING STATION RECESS COVER & FRAME PIT CLEAR OPENING (A X B)					
COVER SIZE 900 X 600 MM					
S/N	AXB	NO.COVER	S/N	AXB	NO.COVER
1310	.1X4	2000	3410	.16x10	2000
1310	.2X6	3090	3410	.17x15	3090
1310	.3X8	4180	3410	.18x20	4180
1310	.4X10	5260	3410	.19x25	5260
1310	.5X12	6350	3410	.20x30	6350
2010	.6X6	2000	4110	.21x12	2000
2010	.7X9	3090	4110	.22x18	3090
2010	.8X12	4180	4110	.23x24	4180
2010	.9X15	5260	4110	.24x30	5260
2010	.10X18	6350	4110	.25x36	6350
2710	.11X8	2000			
2710	.12X12	3090			
2010	.13X16	4180			
2710	.14X20	5260			
2710	.15X24	6350			

6 Part (6x4) recessed multispan cover with 5 removable support beam
PIT CLEAR OPENING (B)

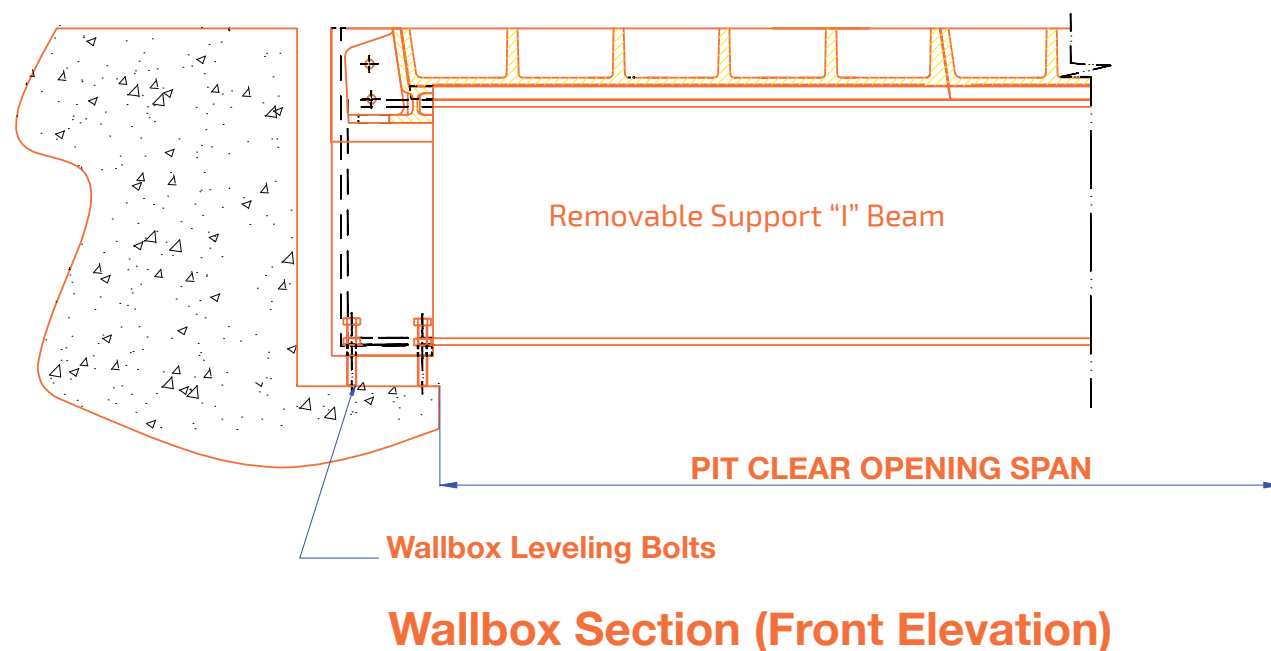
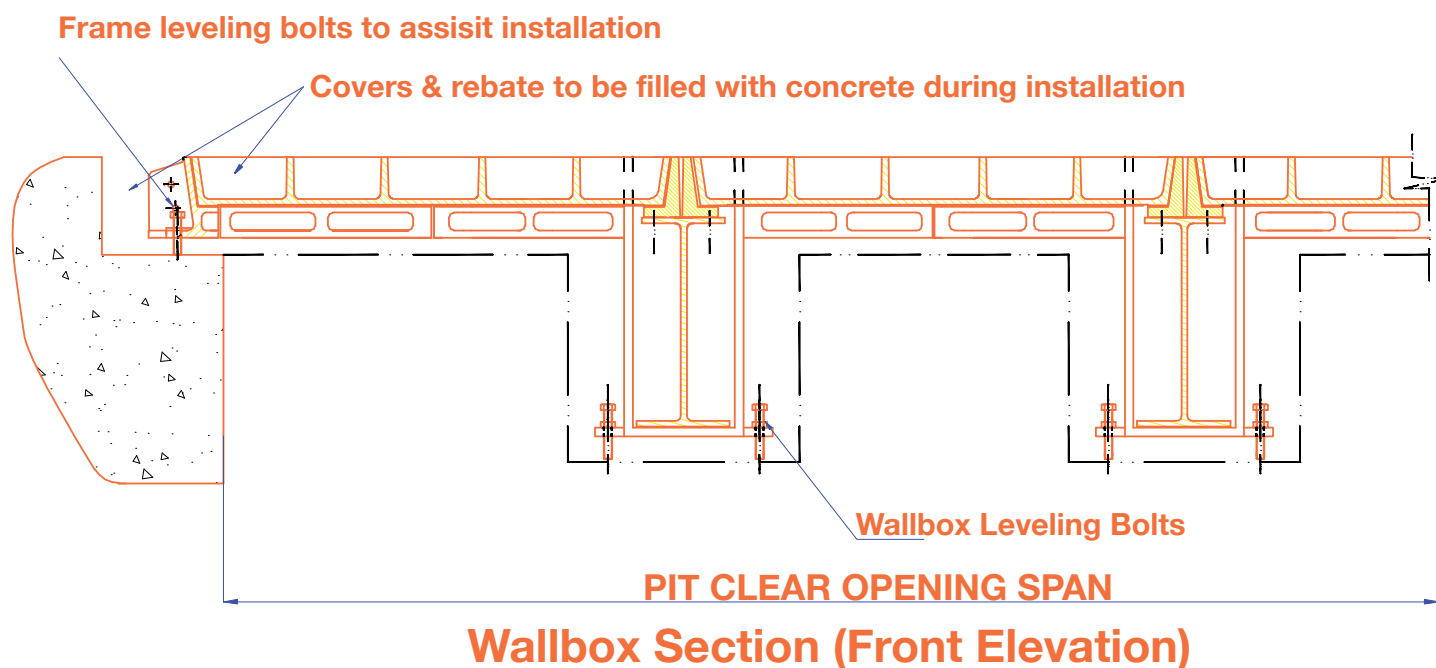


LOADING CLASS D400- PUMPING STATION RECESS COVER & FRAME PIT CLEAR OPENING (A X B)					
COVER SIZE 900 X 900 MM					
S/N	AXB	NO.COVER	S/N	AXB	NO.COVER
1890	.1X4	1970			
1890	.2X6	3040			
1890	.3X8	4110			
1890	.4X10	5170			
1890	.5X12	6230			
2880	.6X6	1970			
2880	.7X9	3040			
2880	.8X12	4110			
2880	.9X15	5170			
2880	.10X18	6230			
3870	.12X8	1970			
3870	.13X12	3040			
3870	.14X16	4110			
3870	.15X20	5170			
3870	.16X24	6230			

CONCRETE INFILL COVERS
INSTALLATION OVERVIEW



CONCRETE INFILL COVERS INSTALLATION OVERVIEW



INSTALLATION GUIDE FOR MULTIPART COVER & FRAMES

Multiple slide-out Covers and frames are manufactured and supplied with or without removable "I" Beams based on customer's specific dimensional requirements of the pit opening. This is a general guideline for installation. Installation guide and assistance can be obtained from Ducast for specific needs.

All multipart slide out units consists multiple frame segments (Units with single end flange, double end flange, without flange, I-Beam Holders with double end flange and I-Beams fitted with L-Angle type segments as required) coupled together as a frame units using stainless steel fasteners. The contact surface of covers (Solid and recess type) and frames are machined at contact surfaces to ensure 100% metal to metal contact between cover and frame. Minimal uniform clearance between cover and frame as well as cover and cover water tightness with application of grease on the cover-frame contact surfaces prior to final assembly at site.

Pre-installation assembly:

- Generally the frame parts are supplied dismantled and packed as set marked with identification for ease of transport. These frame parts needs to be assembled at site properly.
- Place all connected parts in pre-built rebate with the I-Beam Holder in prebuilt wall box rebate. (For larger units the assembly needs to be done at the pit rebates itself)
- Drop the I-Beam/L-Angle assembly one by one into I-Beam Holder of frame and ensure frame top is flush in line with top of the rebate all around
- Ensure sufficient spacers under the frame parts ensure the top level of the frame is in flush with top of rebate using string line. Use steel or cement sheet for as spacers so that they will not crumble with under frame weights
- All the frame cover seating area needs to be in flush and linearly aligned and spirit levelled.
- Ensure the inner opening length of frame at top is same when measured diagonally on both directions
- Ensure that the I-Beam Holder seating portion do not protrude in to clear opening and stand at 90° to its base.
- Use rigid wedge type spacer in between the frame parts and the side wall of the rebate wall to avoid twist of frames.
- Clean all the debris from all vertical seating sections of the frame parts

Installation of covers:

- Clean and remove any debris on the covers on sides and seating area.
 - Drop the covers in to frame in proper direction for one row of covers preferably in middle.
- (Referring the slope of frame side and slope on the side of the cover)
- Then place the covers at end rows.
 - Place the remaining covers.
 - Each time after placement of 1 set of covers ensure the

leveling bolts (on frame & I-Beam Holder) are adjusted if required.

- Ensure the covers are fit well and ensure the metal to metal to contact of cover with frame and non- rocking by walking over.
- Ensure proper alignment without gaps between cover and frame as well as cover & covers.
- Retighten all the frame coupling bolts.
- Slight tapping may be required on I Beams as well frame parts for proper alignment.

Shuttering

- Remove some covers and place the shuttering inside the perimeter of the pit.
- The shuttering needs to be approximately 10mm higher than the bottom of the frame.
- Replace all the covers and ensure proper alignment without gaps between cover and frame as well as cover & cover.
- Mask all the keyways of covers.
- Tight the loosely pre fastened I-beam Holder lid in to I-Beam.

Concreting

- Pour concrete (Preferably C45 Grade) in between frame till it reaches the shuttering and tamp to avoid any voids.
- Pour the concrete in to Integrated L-Angle gap till it reach the I-Beam Holder Lid and tamp.
- Fill concrete in I-Beam Holder Lid.
- Pour concrete on covers in case of recessed covers.

Application of grease

After curing of concrete, remove cover one the other and apply grease generously on the sides and seating portion of both cover and frame and re-fix the cover

Note:

1. For identification of components always refer to the drawing of the unit.
2. If shown on the drawing anchoring of the frame unit to be done as indicated on the drawing.



MUNICIPAL CASTINGS KEY PROJECTS

PROJECT DETAILS

- Dubai International Airport
- Various roads & infrastructure project under - RTA / ADSSC / ADDC / DEWA / ADEWA / DUBAI
- Al Maktoum International Airport, Abu Dhabi Airport
- Sharjah International Airport
- New Doha International Airport
- Khalifa Port
- Muscat International Airport
- Salalah Airport
- Pearl Qatar

TELECOM CASTINGS

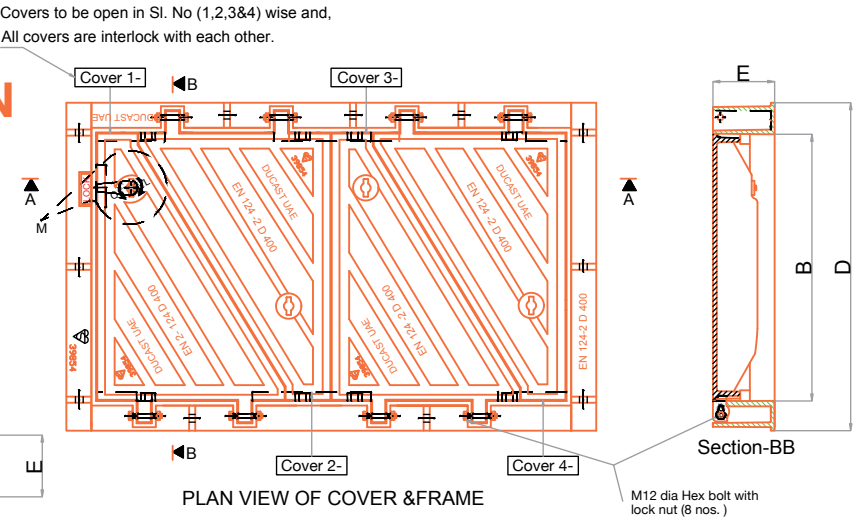
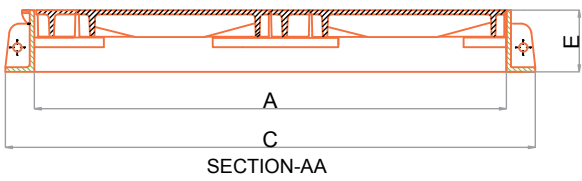


■ Telecommunication Cover & Frame
■ Telecommunication Recess Cover & Frame

TELECOMMUNICATION COVER & FRAME

FEATURES

- Manufactured to EN - 124 - 2 (2015).
- Badging optional
- Paint as per customer's requirement.
- ♡ - Denotes that the product is kitemarked.

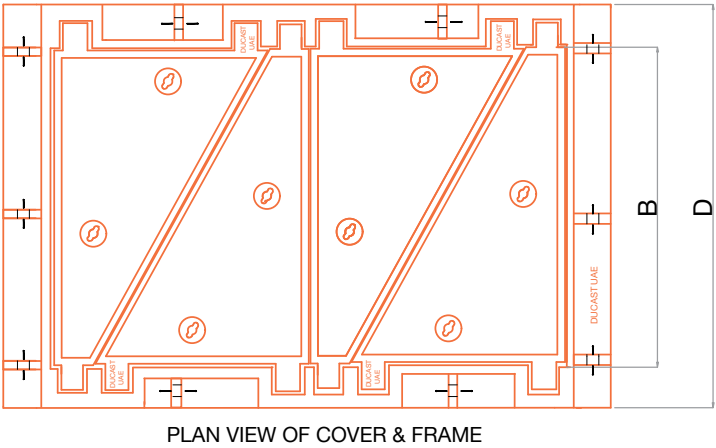
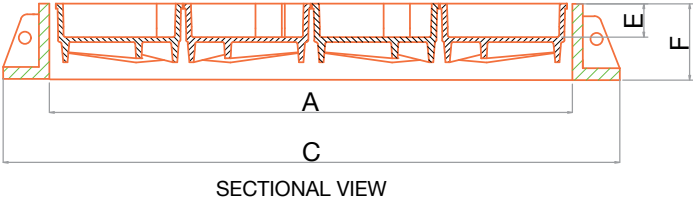


CODE	CLEAR OPENING A x B (mm)	OVER BASE C X D (mm)	FRAME DEPTH E (mm)	NO. OF TRIANGULAR COVERS	LOADING CLASS KN
CW - 1	590 x 590	745 x 745	160	2	400
CW - 2	1220 x 696	1374 x 850	160	4	400
CW - 3	1830 x 696	1984 x 850	160	6	400
CW - 4	920 x 465	1120 x 665	97	Single Pieces	400

TELECOMMUNICATION RECESSED COVER & FRAME

FEATURES

- Manufactured to EN - 124 - 2 (2015).
- Badging optional
- Paint as per customer's requirement.
- ♡ - Denotes that the product is kitemarked.



CODE	CLEAR OPENING A x B (mm)	OVER BASE C x D (mm)	FRAME DEPTH E (mm)	RECESSED DEPTH F (MM)	NO. OF TRIANGULAR COVERS	LOADING CLASS KN
CW-2RC80	1220 x 696	1374 x 850	160	80	4	400
CW-3RC80	1830 x 696	1984 x 850	160	80	6	400
CW-4RC10	920 x 465	1110 x 655	130	100	Single Piece	400



- Paint as per requirement.

Tree Grill will be in Ductile Iron -2Piece Double Triangular Form finish Epoxy Coated

Frame will be in Mild Steel -2Part Triangular form Hot Dip Galvanized finish

Plan View

Sectional side View B-B

Plan View of Tree Grill with Frame

Section-AA

Sectional Front View A-A

Tree Grill will be 4 part without frame

Plan View of Tree Grill

Sectional front View

Tree Grill will be 2 part with frame

Plan View of Tree Grill

Sectional front View

Technical drawings of a tree grill assembly. The drawings include:

- Plan View of Tree Grill:** Shows a square grill with a central circular opening of 600mm diameter. The grill is divided into four quadrants by a cross-shaped frame. Dimensions include 1215mm overall width and height, 1200mm inner width and height, and 1116mm opening width. A 600mm opening is also indicated.
- Sectional side View B-B:** Shows the side profile of the grill, indicating a 1200mm height and 1116mm width.
- Plan View of Tree Grill with Frame:** Shows the grill with a frame. The frame is made of mild steel, 2-part, triangular form, hot dip galvanized finish. The grill is made of ductile iron, 2-piece, double triangular form, epoxy coated. The frame has a 1500mm width and 1518mm height. The grill has a 1500mm width and 1518mm height. The frame has a 1500mm width and 1518mm height. The grill has a 1500mm width and 1518mm height.
- Section-AA:** Shows a cross-section of the grill, indicating a 1518mm width and 1518mm height. The grill is 1518mm wide and 1518mm high. The grill is 1518mm wide and 1518mm high. The grill is 1518mm wide and 1518mm high.
- Sectional Front View A-A:** Shows the front view of the grill, indicating a 1200mm width and 1116mm height. The grill is 1200mm wide and 1116mm high. The grill is 1200mm wide and 1116mm high. The grill is 1200mm wide and 1116mm high.
- Plan View of Tree Grill (Detailed):** Shows a square grill with a central circular opening of 700mm diameter. The grill is divided into four quadrants by a cross-shaped frame. Dimensions include 1013mm overall width and height, 1000mm inner width and height, and 700mm opening width. A 700mm opening is also indicated.
- Sectional front View (Detailed):** Shows the side profile of the grill, indicating a 1000mm height and 700mm width.

KEY CONTACTS

LOCAL CONTACTS

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LOCATION MAP



GROUP PROFILE



TAURANI HOLDINGS LTD is a multinational conglomerate headquartered in Dubai, United Arab Emirates. It operates in four continents with more than 2,400 employees worldwide. THL was founded in 1976 as a group of manufacturing, trading and servicing companies catering to a vast multitude of sectors across various markets.

With annual turn over of US\$200 Million, the group has eventually ventured into every trade arena through well-defined business strategies. An able leadership and a highly dedicated work force across the group are the key elements that engineer its evolution.

As a global business conglomerate, the group's ability to understand, innovate and operate in a multicultural world ensures its long-term sustainability and, specifically, impacts its ability to meet the group's underlined growth trajectory.



This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.





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