



ACCESS COVERS & ENGINEERING CASTINGS

DESIGN - CAST - SUPPLY







TABLE OF CONTENTS

MD's MESSAGE	/ 4
OUR MISSION - VISION - VALUE	/ 5
COMPANY PROFILE	/ 6
BRAND PROFILE	/ 7
ACCOMPLISHED KEY PROJECT	/ 8
STANDARDS	/ 10
COMPARISON	/ 11
ULTRA MODERN PRODUCTION FACILITIES	/ 12
CAST IRON ACCESS COVER & FRAMES	/ 14
SAUDI - ARAMCO	/ 20
DUCTILE IRON COVER & FRAMES	/ 24
TREE GRATES	/ 32
MUNICIPAL CASTINGS	/ 35
TELECOM CASTINGS	/ 68

MD's MESSAGE

“

Thirty years of
leadership in
manufacturing
& global supply
of Access
Covers and
Engineering
Castings.

”

As Ducast celebrates its 30th 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 globally.

Capitalizing on select opportunities which include strategic expansion, efficient marketing and excellent coordination between the sales and production teams helped us to be 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 governing bodies during the well-paced growth of the country and will continue doing so. Operating from our state-of-the-art facility in UAE's capital Abu Dhabi (KEZAD), we are well position to cater to our vast customer base globally.

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

To be the global pioneers of the ACCESS COVERS and ENGINEERING CASTING industry in terms of Innovation, Quality, Sustainability and Customer Centricity

OUR VISION

Becoming Global Industry leaders through Sustainable Partnerships & Quality products. We strive for Continual Innovation and eco-friendly practices

OUR VALUES

- Honest
- Customer Centric
- Honorable
- Synergistic

COMPANY PROFILE



Taurani Holdings Arabia LTD. is a subsidiary of Taurani Holdings Ltd, Dubai that specialises in stock and supply of structural steel products, scaffolding systems and access covers and engineering castings for every application.

The company is headquartered in Riyadh, Saudi Arabia with its stock points and ancillary offices across the Kingdom. The company is aimed at catering to local market effectively and efficiently. Relying on top quality and high credit standing, our products and solutions have won high praise from customers around the world.

The company covers an area of 20,000 sqm, efficient 150 employees and is equipped with most advanced

machinery and equipment to stock and supply world class products and systems as per customers' designs or samples.

Our highly recognized access covers and engineering castings are designed, casted and supplied under the brand name DUCAST which has been ruling the market past thirty years. Majority of the DUCAST products are Kite marked by BSI.

Our able leadership and dedicated work force are always engaged in developing new product line and improving customer service to meet changing demands from different sectors.



BRAND PROFILE



Founded in 1996 in Dubai, Ducast Factory LLC stands as the flagship company of Taurani Holdings, UAE, specializing in the design, casting, and supply of world-class access covers and engineering castings. Recognized as a pioneer in ductile iron casting across the Middle East, Ducast has established itself as a trusted name in the global market.

With an impressive annual production capacity of 24,000 metric tons, we serve a wide range of markets including the UK, USA, North America, Europe and the MENA region. Ducast's commitment to quality and operational excellence is reinforced by internationally

recognized certifications such as ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 and ISO 50001:2018. The company is also approved by ADNOC and holds ICV certification, while several key product lines proudly carry the prestigious Kitemark from the British Standards Institution (BSI).

Backed by advanced manufacturing capabilities, Ducast produces castings ranging from 0.5 kg to 3.0 tons, delivering tailored solutions in any grade, configuration or specification to meet diverse global client requirements.

ENGINEERING CASTINGS

We design and cast world class Engineering Castings for multiple end users including Aluminum Smelters, Cement Factories and Mining Crusher parts for the plants and machineries. Our products are supplied to the USA, Europe, Middle East, Asia Pacific and South East Asia.

- Smelters
- General Engineering
- Crusher Segment
- Marine Industry
- Pumps & Valves
- Scaffolding & Formwork





ACCOMPLISHED KEY PROJECTS

SAUDI ARABIA

- Saudi Aramco
- Red Sea
- Amala
- Neom
- AL Ula
- Diriyah Gate
- King Salman Park
- Qiddiya - Riyadh
- King Salman Maritime City
- Misk City - Riyadh
- Riyadh Metro



INTERNATIONAL

- King Abdul Aziz International Airport - Jeddah
- Prince Mohammad bin Abdul Aiz Intrnational Airport - Madinah
- Prince Naif bin Abdulaziz International Airport - Al Gassim
- Amala International Airport
- Harmain High Speed Railway
- Makkah Ring Road
- Rua Al Madinah
- Haram Expension Project Madinah
- King Abdul Aziz Port - Dammam
- Doreen Port - Eastern Provence
- King Abdullah Sport City
- 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

ACCREDITATIONS



BSI KITE MARK



ICV Certificate



ISO 9001:2015



ISO 14001:2015



ISO 45001:2018



ISO 50001:2018



QUALITY STANDARDS

Control Stage

Key Instruments

Simulator	We are equipped with sophisticated Simulation Software for solidification and flow analysis.
Chemical	We operate a state-of-the-art spectro lab for precise molten metal (liquid iron) analysis (C, Si, CE).
Metallurgical	Inverted Stage metallurgical microscope Inverted Metallurgical Microscope with built in CCD Camera and Image Analyzer Advanced Co-Axial Inverted Trinocular Metallurgical Microscope
Mechanical	Servo Controlled Digital Universal Testing Machine with Software Bend Testing Machine Brinell Hardness Tester (Bench & Portable)
Sand Testing	All keys tests for both Green Sand & No Bake Sand
Load Testing	Electrical Pump Driven Hydraulic Press Type Load Testing Machine (In combination with Digital Load Indicator and transducer) – 1000kN

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 EN 124-2: 2015. 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.

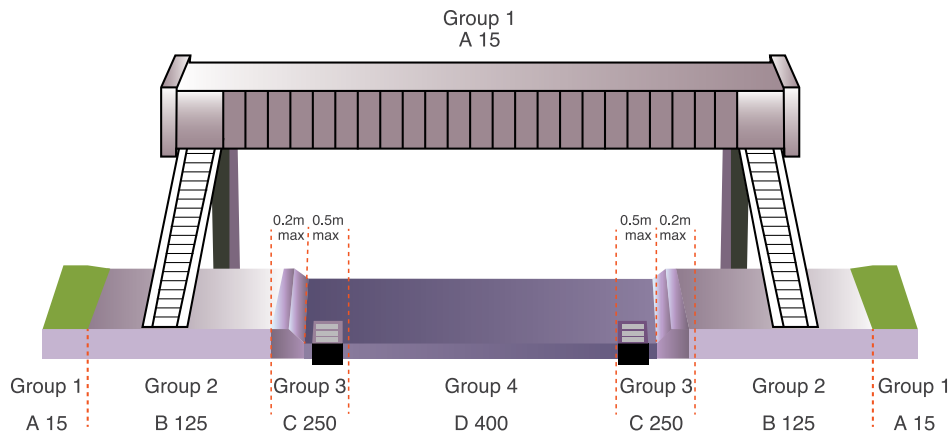
Strong impact resistance. Under severe impact it will bend.

Tensile strength is high
Almost twice than cast iron
Moderate elongation & ductility
ISO 1083 : 1987 Grade : 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.

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

High capability of vibration absorption.



GROUP	PLACE OF INSTALLATION	MINIMUM 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	

ULTRA MODERN PRODUCTION FACILITIES



DESIGN DEPARTMENT

Our advanced in-house capabilities include 3D CAD design (SOLIDWORKS), simulation software for solidification and flow analysis, Flexi-CAM and CNC machines for precision pattern making.



MELTING SHOP

As an ISO 45001: 2018 Certified company, our series of induction furnaces keep producing the Molten metal by recycling thousands of tons of metal scrap everyday.



MOULDING LINES - GREEN SAND

KOYO - Fully Automatic Horizontal Moulding machine Make - Koyo, Japan. Cake - size: 700 x 600mm

BELLOI - Fully Automatic Horizontal Moulding Machine Make: Belloi, Italy. Box size : 1000 x 1000mm



MOULDING LINES

Omega Sands mixing capacity -30 Ton/ Hour
Articulated Continuous Mixer - Furnace process



TESTING LAB

The molten metal is laboratory - tested for quality standards before pouring into the prepared moulds.



SHOT BLASTING

De-molded castings undergo eco-friendly shot blasting to remove the tough burrs and contaminants without damaging the metal.



ROBOTIC GRINDING

After shot blasting, the castings are fettled to remove excess material often formed by the moulds parting lines during the casting process when the molten metal is injected into the mould.



MACHINE SHOP

We are equipped with a full fledged machine shop to carry out machining that includes drilling and assembling where ever needed.



QUALITY CONTROL

Our quality control department thoroughly carries out testing for quality, load bearing and other manufacturing intricacies before proceeding to painting lines.



PAINTING YARD (EPOXY AND POWDER COATING)

Our environment friendly painting shop, in line with UAE's green initiative, provides epoxy liquid coating and powder coating solutions to paint our access covers in any customised colours as per market demands.

CAST IRON ACCESS COVERS & FRAMES

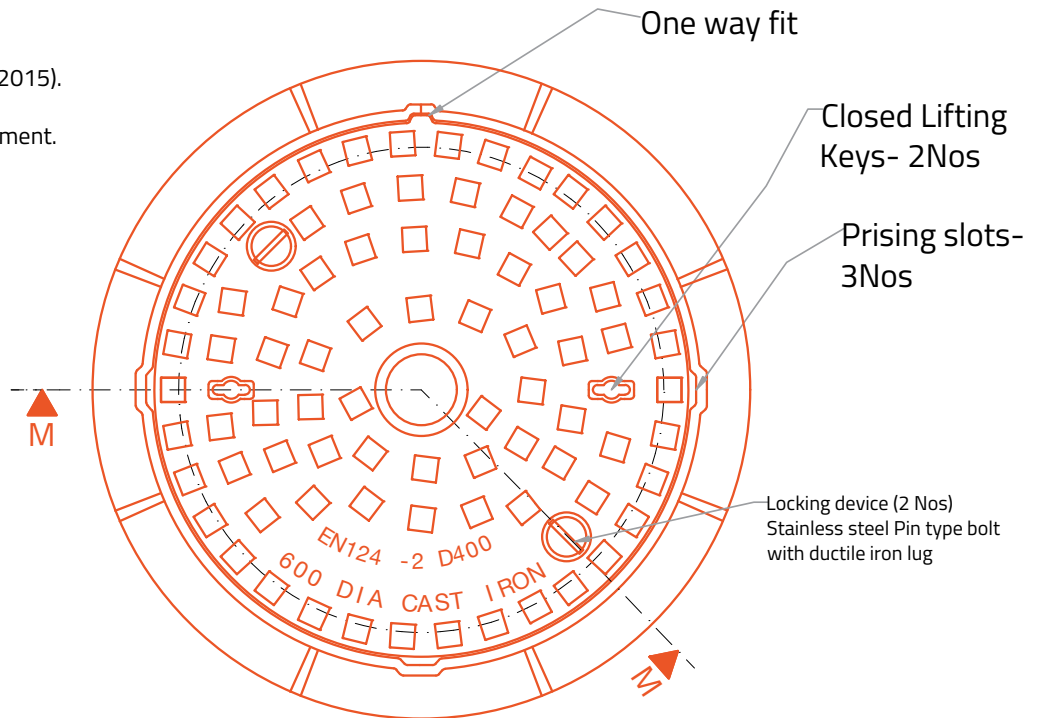


CAST IRON

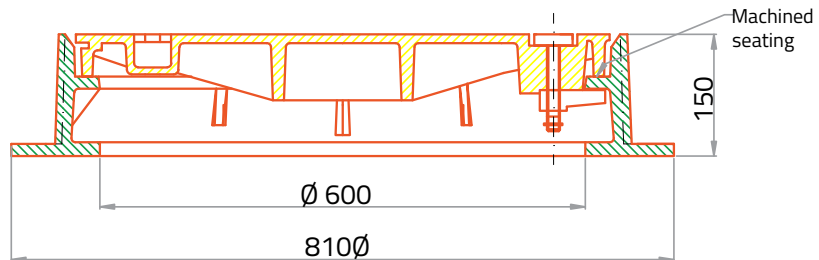
CIRCULAR SOLID TOP COVER & FRAME

FEATURES

- Manufactured to EN - 124 - 2 (2015).
- Badging optional
- Paint as per customer's requirement.

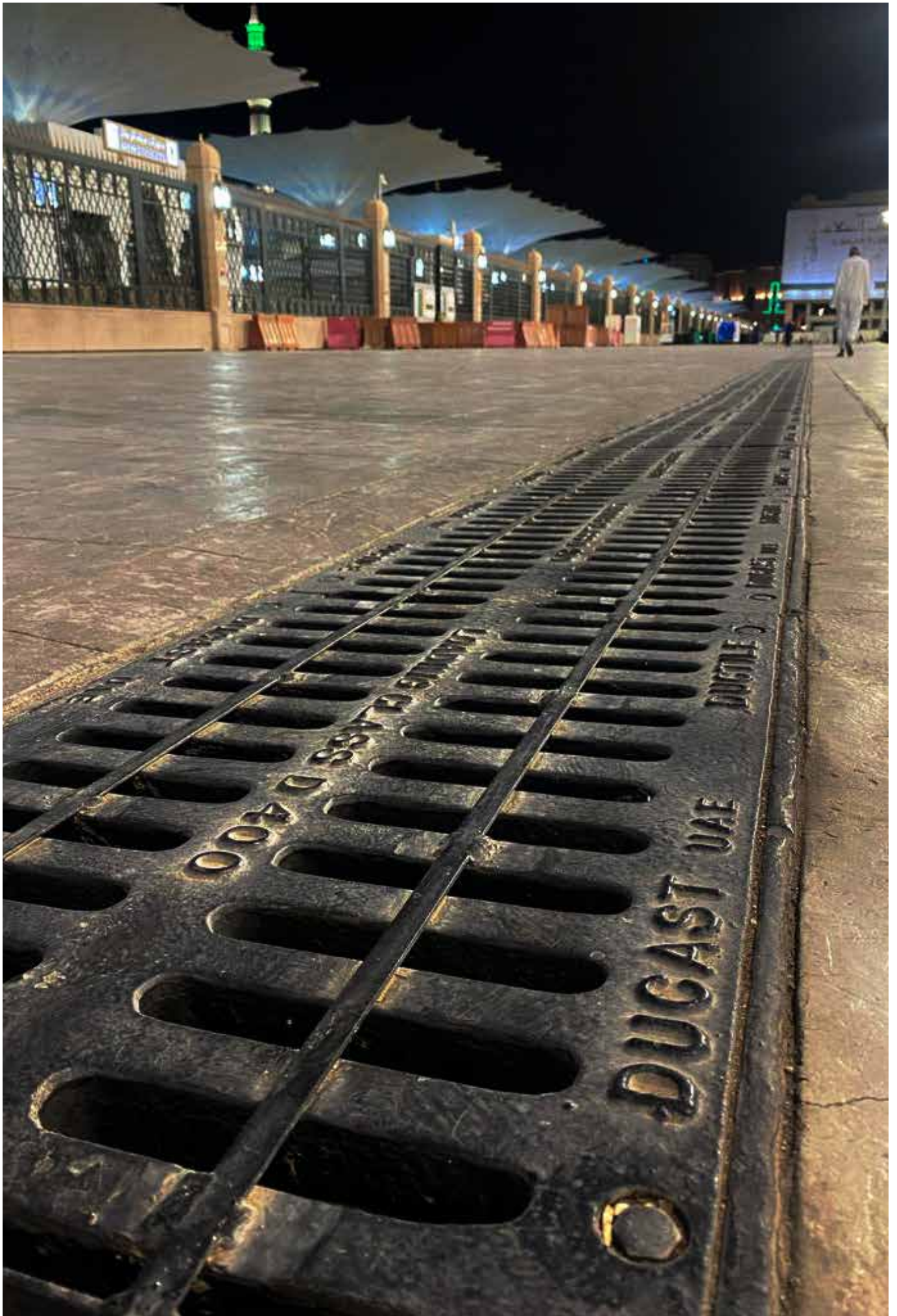


PLAN VIEW OF COVER & FRAME



SECTIONAL VIEW OF COVER & FRAME @ M-M

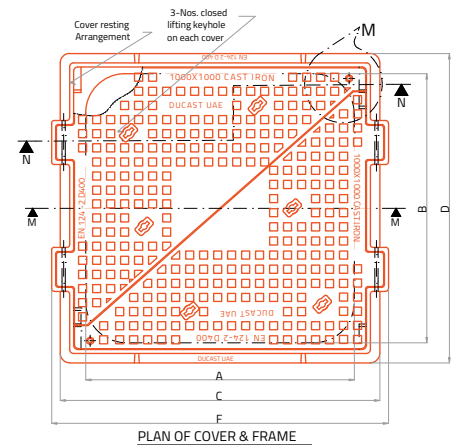
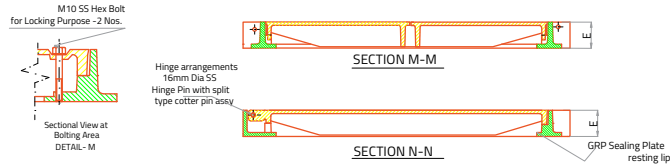
CODE	SIZE (MM)	FRAME HEIGHT (MM)	OVER BASE (MM)	DESCRIPTION	SEAL	PROVISION FOR GRP	LOADING CLASS
CI-SA-18A	600 DIA	150	810 MM DIA	600mm Dia Clear Opening Cast Iron Circular Cover & Frame With Lockable	-	N	D 400
CI-750C	750 DIA	100	1070x1070	750mm Dia Clear Opening Cast Iron Circular Cover & Square Frame	SS	N	D 400
CI-SA- 18D	600 DIA	75	750x750	600mm Dia Clear Opening Cast Iron Circular Cover & Frame With Lockable	SS	N	D 400
CI-915	915 DIA	75	1075 DIA	915 mm Dia Clear Opening Cast Iron Circular Cover & Frame	SS	N	D 400
CI-915B	915 DIA	75	1075 DIA	915 mm Dia Clear Opening Cast Iron Circular Cover & Frame	SS	N	B 125
CI-18D	600 DIA	180	850 DIA	600 mm dia Cast Iron Solid Top Cover & Frame	SS	Y	D 400
CI-18B	600 DIA	100	800 DIA	B125 Cast Iron Single seal solid top cover/frame	SS	Y	B 125



CAST IRON DOUBLE TRIANGULAR HINGED AND LOCKABLE COVER & FRAME

FEATURES

- Manufactured to EN - 124 - 2 (2015).
- Badging optional
- Paint as per customer's requirement.

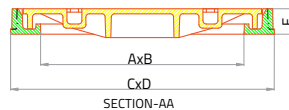
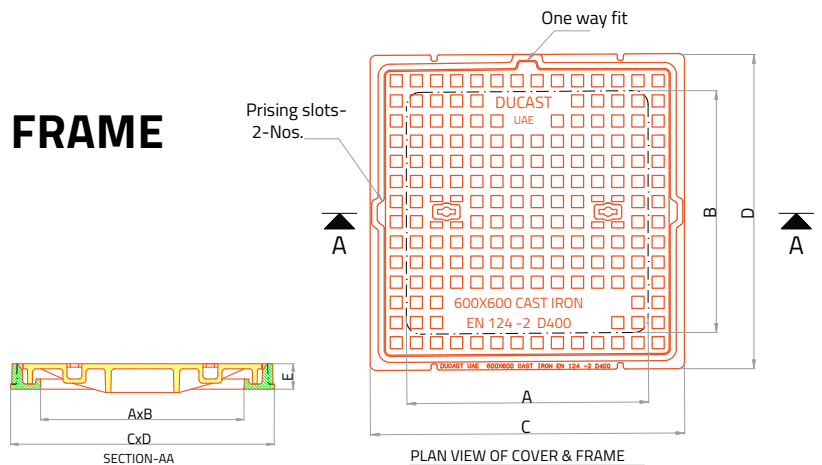


CODE	SIZE (MM)	FRAME HEIGHT (MM)	OVER BASE (MM)	DESCRIPTION	SEAL	PROVISION FOR GRP	LOADING CLASS
CI-SA-60H	600x600	100	800x740x840	600X600mm Clear Opening Cast Iron Double Triangular Hinged Type Cover & Frame	-	Y	D 400
CI-SA-80H	800x800	100	980x950x1060	800x800mm Clear Opening Cast Iron Double Triangular Hinged Type Cover & Frame	-	Y	D 400
CI-SA-85H	850x850	100	1030x1000x1110	850X850mm Clear Opening Cast Iron Double Triangular Hinged Type Cover & Frame	-	Y	D 400
CI-SA-10H	1000x1000	100	1180x1150x1250	1000x1000mm Clear Opening Cast Iron Double Triangular Hinged Type Cover & Frame	-	Y	D 400

CAST IRON SQUARE SOLID TOP COVER & FRAME

FEATURES

- Manufactured to EN - 124 - 2 (2015).
- Badging optional
- Paint as per customer's requirement.

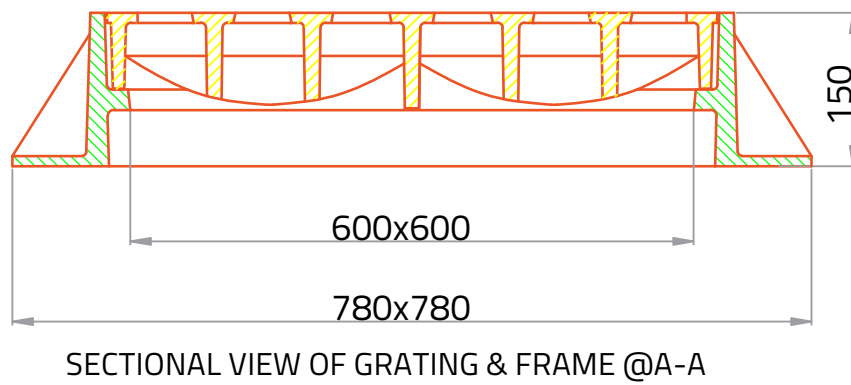
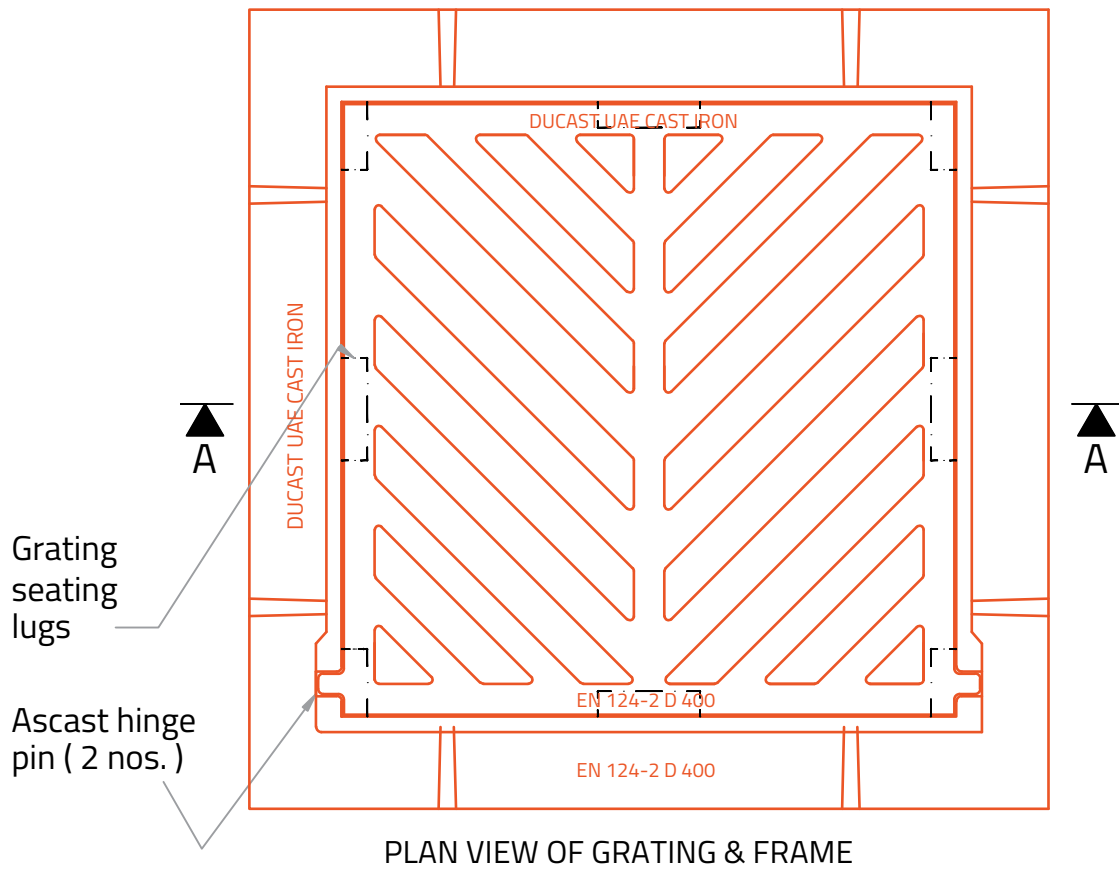


CODE	SIZE (MM)	FRAME HEIGHT (MM)	OVER BASE (MM)	DESCRIPTION	SEAL	PROVISION FOR GRP	LOADING CLASS
CI-SA-1A	600x600	80	750x750	600x600mm Clear Opening Cast Iron Solid Top Cover & Frame	SS	N	D 400
CI-SA-40D	400x400	45	550x550	400X400mm Clear Opening Cast Iron Solid Top Cover & Frame	SS	N	D 400
CI-SA-40B	400x400	45	550x550	400X400mm Clear Opening Cast Iron Solid Top Cover & Frame	SS	N	B 125
CI-SA-60B	600x 600	80	750x750	600x600mm Clear Opening Cast Iron Solid Top Cover & Frame	SS	N	B 125

CAST IRON TOP ENTRY GULLY COVER & FRAME

FEATURES

- Manufactured to EN - 124 - 2 (2015).
- Paint as per customer's requirement.

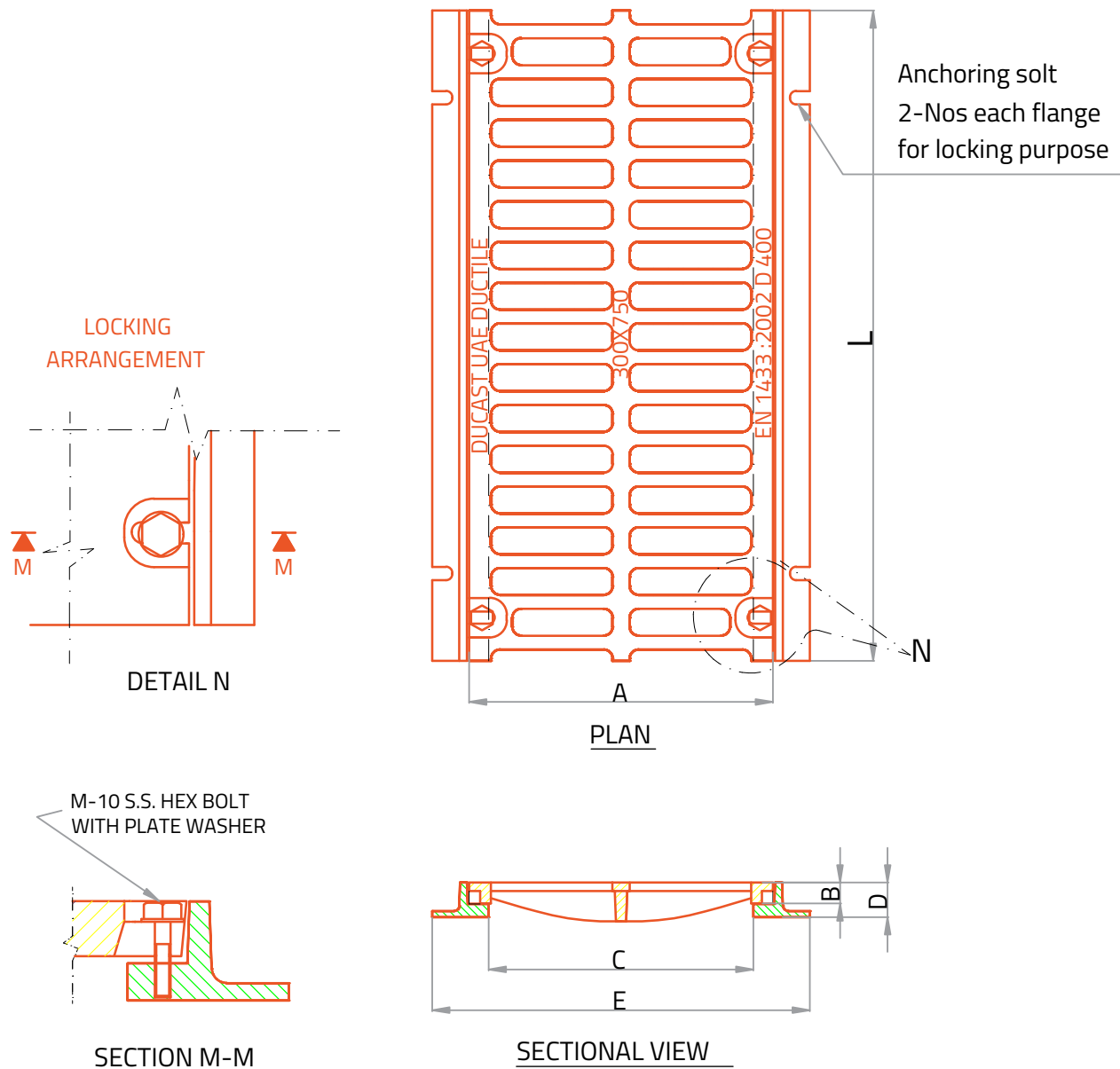


CODE	CLEAR OPENING	OVER BASE	DEPTH	LOADING CLASS
CI-SA-G4	600x600	710x710	150	C250
CI-SA-G4D	600x600	780x780	150	400kN

CAST IRON CHANNEL GRATING COVER & FRAME

FEATURES

- Manufactured to EN - 124 - 2 (2015).
- Paint as per customer's requirement.

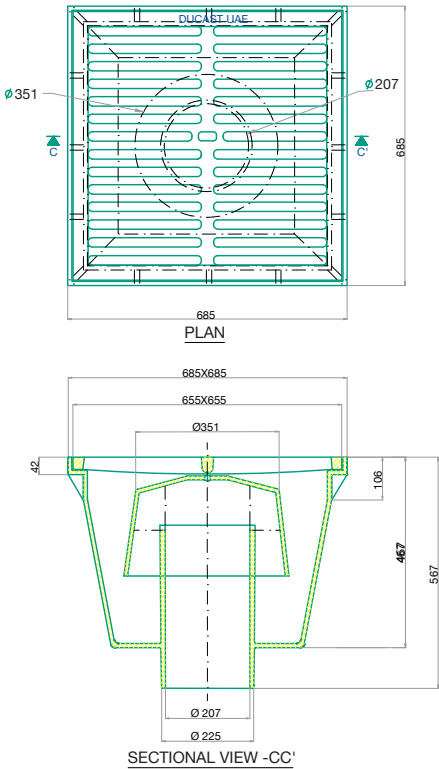


CODE	CLEAR WIDTH	LENGTH	DEPTH	OVER BASE	LOADING CLASS
CICH-4	200	750	75	370 x 750	D 400
CICH-8	250	750	75	420 x 750	D 400
CICH-1	300	750	75	470 x 750	D 400
CICH-5	400	750	75	570 x 750	D 400
CICH-9	450	750	75	620 x 750	D 400

CATCH BASIN - SAUDI ARAMCO
CB - 40

FEATURES

- Removable Dome Trap
- Bitumen Coated
- Options: Epoxy Coating

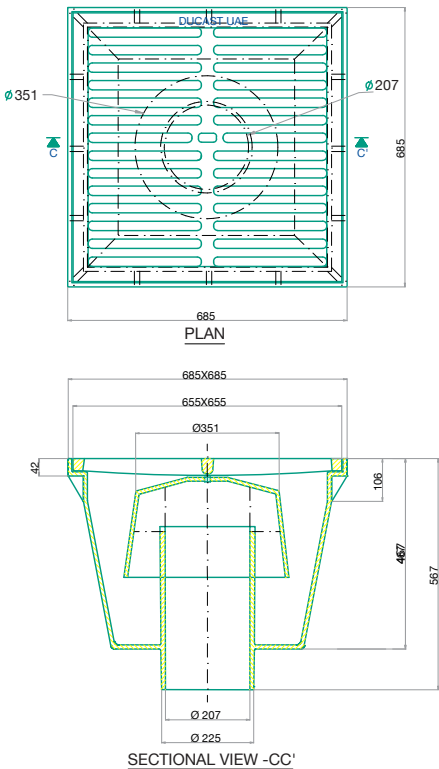


CODE	MATERIAL	OUTER SIZE	OVER BASE	HEIGHT
CBA 40	GREY CAST IRON	Ø8 INCHES	27 INCHES	567MM

CATCH BASIN - SAUDI ARAMCO
CB - 60

FEATURES

- Removable Dome Trap
- Bitumen Coated
- Options: Epoxy Coating



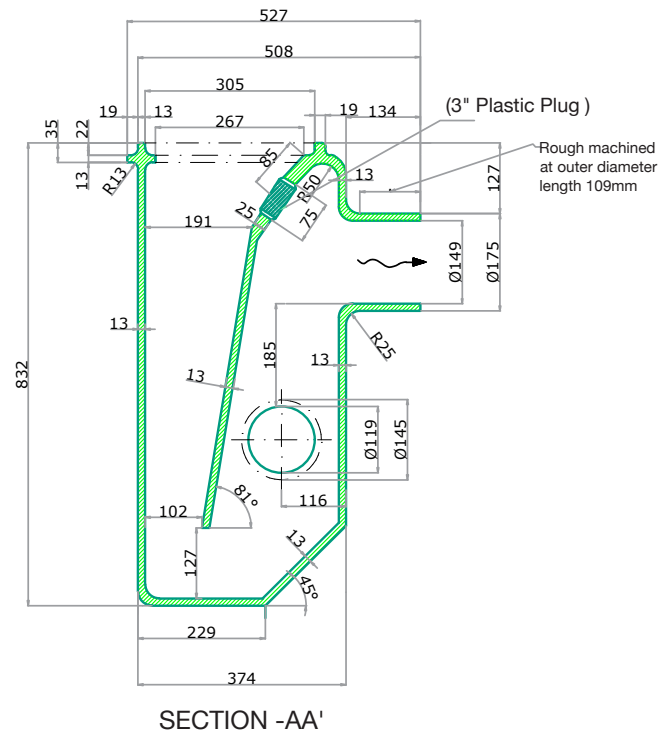
CODE	MATERIAL	OUTER SIZE	OVER BASE	HEIGHT
CB 60	GREY CAST IRON	Ø6 INCHES	27 INCHES	400MM

CATCH BASIN - SAUDI ARAMCO

CBSA - 48

FEATURES

- Auxillary Inlet
- 3" Cleanout Plug
- Bitumen Coated
- Options: Epoxy Coating



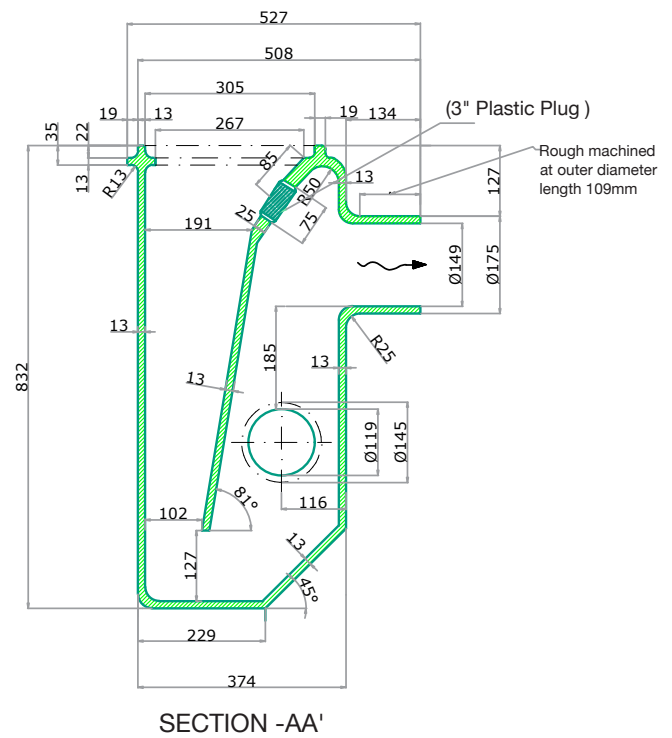
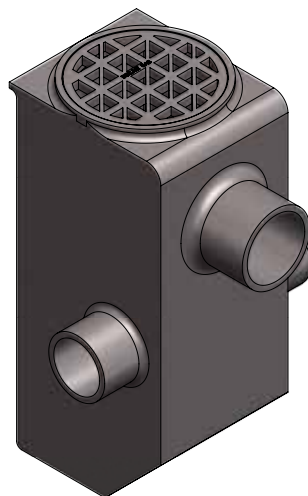
CODE	MATERIAL	CLEAR OPENING	HEIGHT
CBSA 48	GREY CAST IRON	Ø6 INCHES	832MM

CATCH BASIN - SAUDI ARAMCO

CBSA - 60

FEATURES

- 3" Cleanout Plug
- Bitumen Coated
- Options: Epoxy Coating

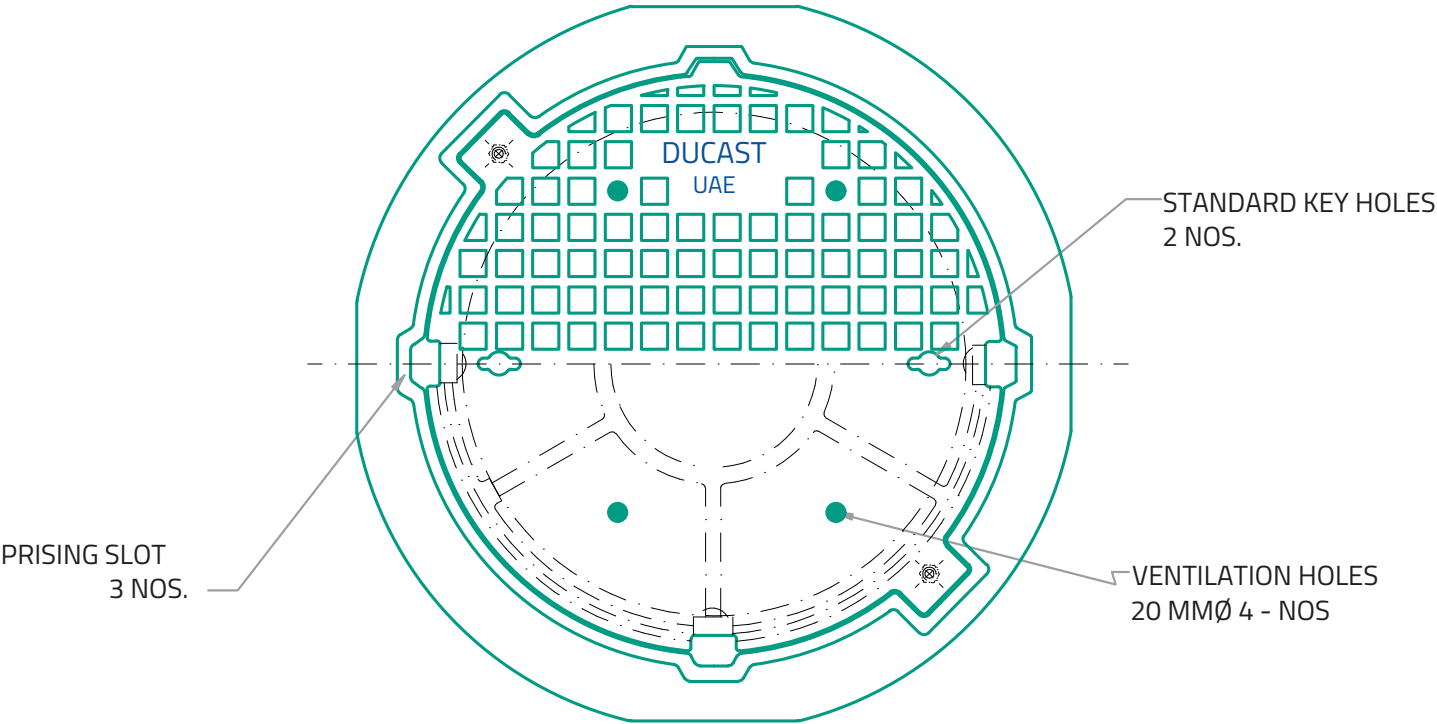
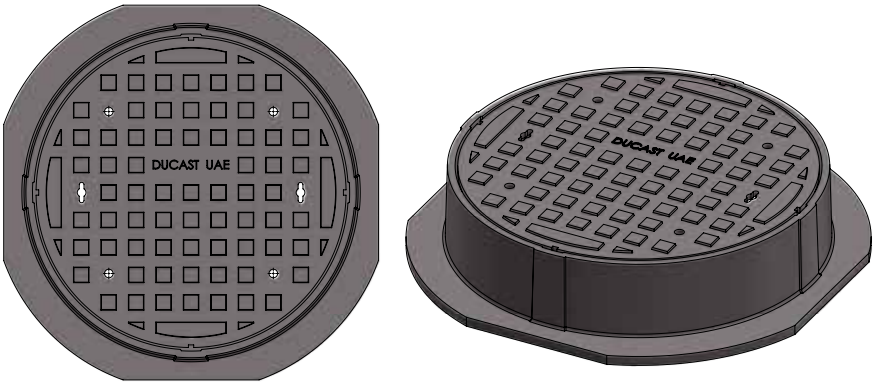


CODE	MATERIAL	CLEAR OPENING	HEIGHT
CBSA 60	GREY CAST IRON	Ø6 INCHES	603MM

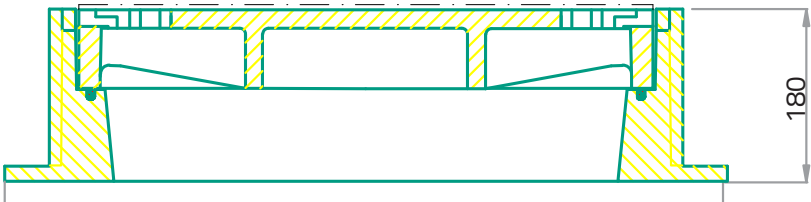
COVER & SURFACE BOXES - SAUDI ARAMCO
CI - 250 HD

FEATURES

- Heavy DUTy
- Key Holes - Open/Closed
- 4 Vent Holes - Open/Closed
- One Way Fit
- Rubber Ring Gasket
- Ref: AE - 036082
- Bitumen Coated
- Options: Epoxy Coating



PLAN



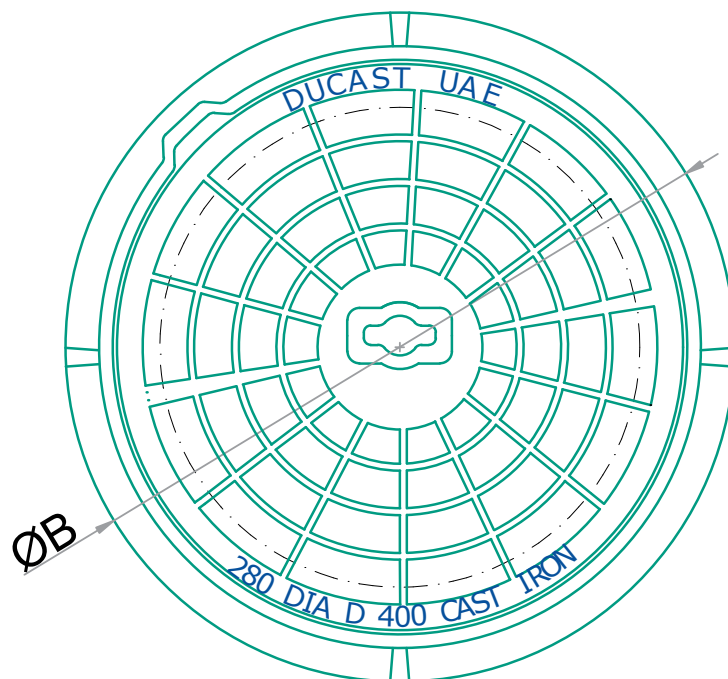
CODE	MATERIAL	CLEAR OPENING	OVER BASE	DEPTH	LOAD
CI - 250 HD	GREY CAST IRON	Ø600 MM	Ø850 MM	180MM	40 TONS

COVER & SURFACE BOXES - SAUDI ARAMCO

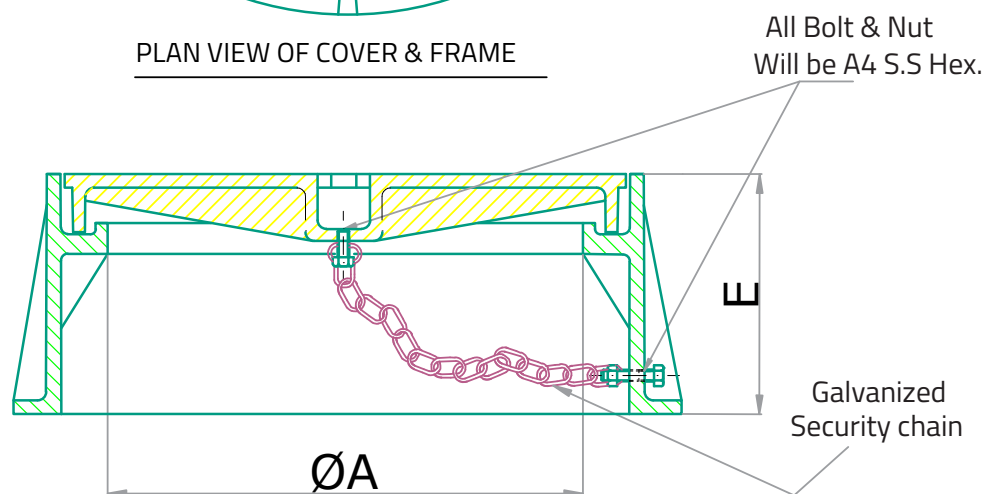
DISB - 280

FEATURES

- Heavy Duty
- Lock
- Stainless Steel Security Chain
- Key Hole
- Bitumen Coated
- Options: Epoxy Coating



PLAN VIEW OF COVER & FRAME



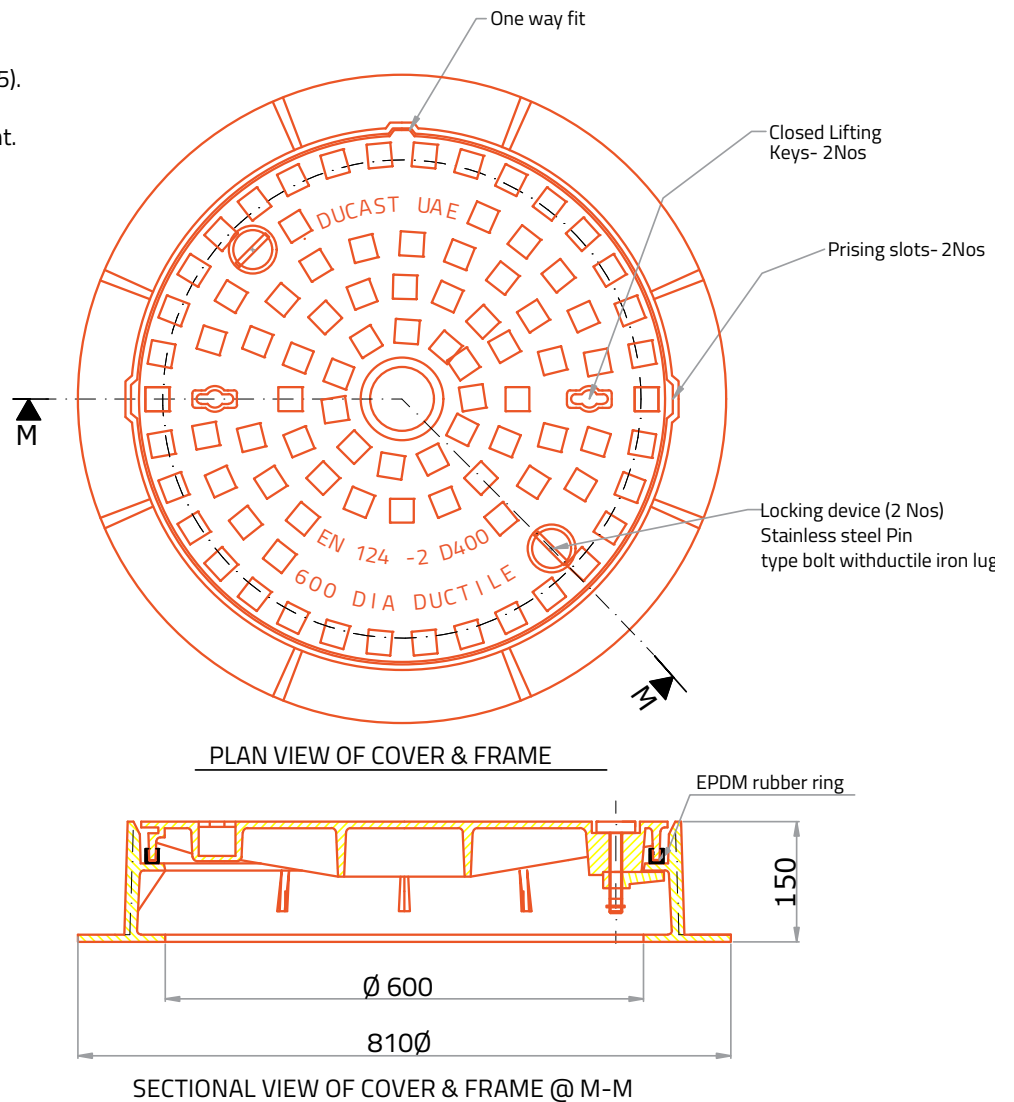
SECTIONAL VIEW

CODE	MATERIAL	CLEAR OPENING	OVER BASE	DEPTH	LOAD
DISB - 280	GREY CAST IRON	Ø280 MM	Ø370 MM	140MM	GRADE A

DUCTILE IRON CIRCULAR SOLID TOP COVER & FRAME

FEATURES

- Manufactured to EN - 124 - 2 (2015).
- Badging optional
- Paint as per customer's requirement.

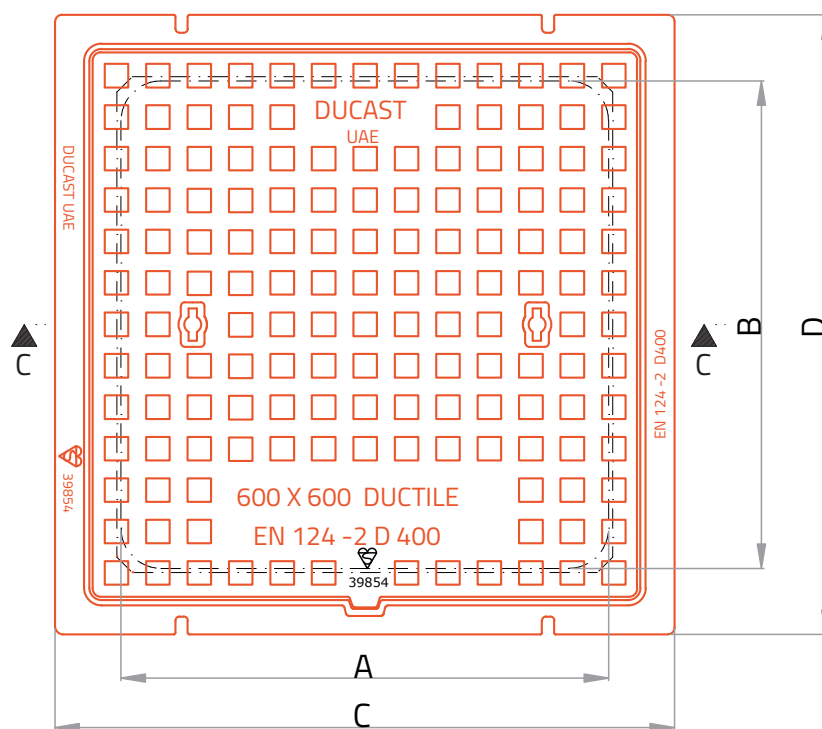


CODE	SIZE (MM)	FRAME HEIGHT (MM)	OVER BASE (MM)	DESCRIPTION	SEAL	PROVISION FOR GRP	LOADING CLASS
DI-SA-19	600 DIA	75	750MM DIA	600mm Dia Clear Opening Ductile Iron Single Seal Circular Cover & Frame	SS	N	B 125
DI-SA- 19A	600 DIA	75	750x750 MM	600mm Dia Clear Opening Ductile Iron Single Seal Circular Cover & Square Frame	SS	N	B 125
DI-SA-18A	600 DIA	150	810 MM DIA	600mm Dia Clear Opening Ductile Iron Circular Cover & Frame With Lockable	-	Y	D 400
DI-SA-18D	600 DIA	180	850 MM DIA	600mm Dia Clear Opening Ductile Iron Circular Cover & Frame With Lockable	-	N	D 400
DI-SA-18	600 DIA	75	750x750 MM	600mm Dia Clear Opening Ductile Iron Circular Cover & Frame	SS	N	D 400
DI-SA-31A	600 DIA	100	750 MM DIA	600mm Dia Clear Opening Ductile Iron Circular Cover & Frame With Lockable & Rubber Seal	-	N	D 400

DUCTILE IRON SQUARE SOLID COVER & FRAME

FEATURES

- Manufactured to EN - 124 - 2 (2015).
- Badging optional
- Paint as per customer's requirement.



PLAN VIEW OF COVER & FRAME



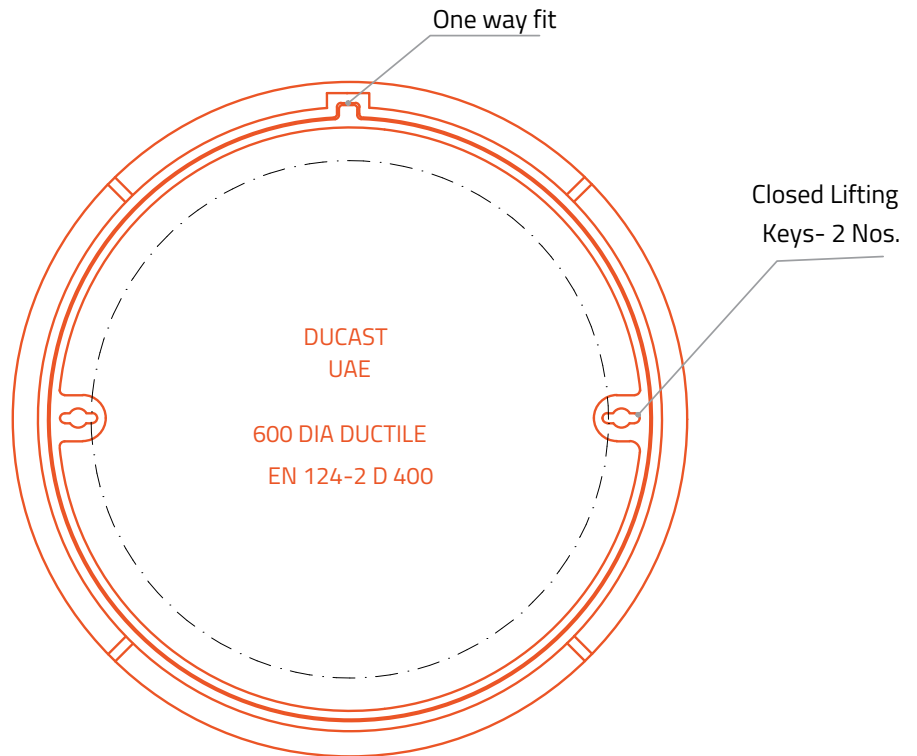
SECTION- CC'

CODE	SIZE (MM)	FRAME HEIGHT (MM)	OVER BASE (MM)	DESCRIPTION	SEAL	PROVISION FOR GRP	LOADING CLASS
DI-SA-1A	600x600	80	750x750	600x600mm Clear Opening Ductile Iron Solid Top Cover & Frame	SS	Y	D 400
DI-12A	600x600	45	708x708	600x600mm Clear Opening Ductile Iron Solid Top Cover & Frame	SS	Y	B 125
DI - 40A	800 x 800	940 x 940	50	800x800mm Clear Opening Ductile Iron Solid Top Cover & Frame	S.S	N	125
DI-5B	900 x 900	1120 x 1120	55	900x900mm Clear Opening Ductile Iron Solid Top Cover & Frame	D.S	N	125
DI - 40	800 x 800	1090 x 1090	75	800x800mm Clear Opening Ductile Iron Solid Top Cover & Frame	D.S	N	D400
DI - 5A	900 x 900	1075 x 1075	100	900x900mm Clear Opening Ductile Iron Solid Top Cover & Frame	S.S	Y	D400
DI - 10A	1000 x 1000	1210 x 1210	80	1000x1000mm Clear Opening Ductile Iron Solid Top Cover & Frame	D.S	N	D400
DI - 29	1200 x 1200	1370 x 1370	100	1200x1200mm Clear Opening Ductile Iron Solid Top Cover & Frame	S.S	N	D400
DI-SA-50D	500 x 500	680 x 680	80	500x500mm Clear Opening Ductile Iron Solid Top Cover & Frame	D.S	NA	D400

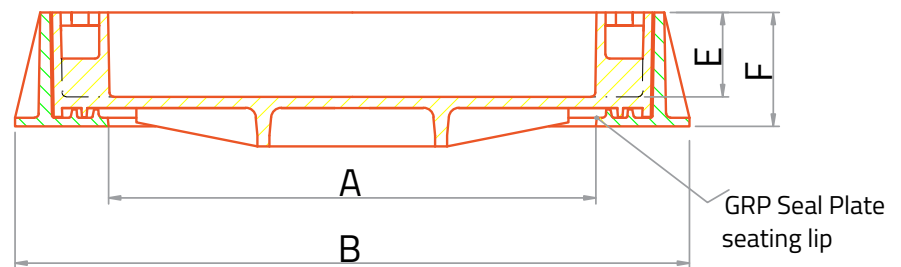
DUCTILE IRON RECESSED CIRCULAR COVER & FRAME

FEATURES

- Manufactured to EN - 124 - 2 (2015).
- Badging optional
- Paint as per customer's requirement.



PLAN VIEW OF COVER & FRAME



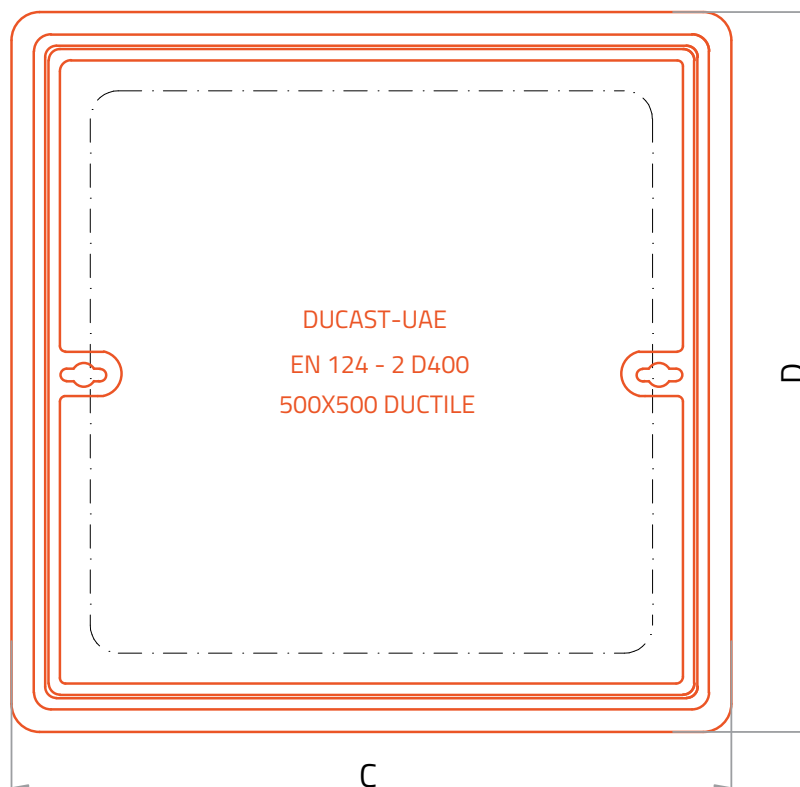
SECTIONAL VIEW OF COVER & FRAME

CODE	SIZE (MM)	FRAME HEIGHT (MM)	OVER BASE (MM)	RECESS DEPTH	DESCRIPTION	SEAL	PROVISION FOR GRP	LOADING CLASS
DI-18RC	600 DIA	100	750x750	50	600mm Dia Clear Opening Ductile Iron Recess Cover & Frame	SS	Y	D 400
DI-18RCA	600 DIA	140	800 DIA	100	600mm Dia Clear Opening Ductile Iron Recess Cover & Frame	DS	Y	D 400
DI-17RCA	675 DIA	135	875 DIA	100	675mm Dia Clear Opening Ductile Iron Recess Cover & Frame	DS	Y	D 400
DIRC-19	900 DIA	140	1120 DIA	100	975 mm Dia Clear Opening Ductile Iron Recess Cover & Frame	DS	N	D 400

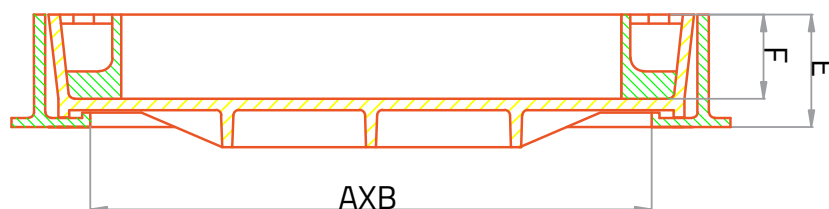
DUCTILE IRON RECESSED SQUARE COVER & FRAME

FEATURES

- Manufactured to EN - 124 - 2 (2015).
- Badging optional
- Paint as per customer's requirement.



PLAN VIEW OF COVER & FRAME



SECTIONAL VIEW

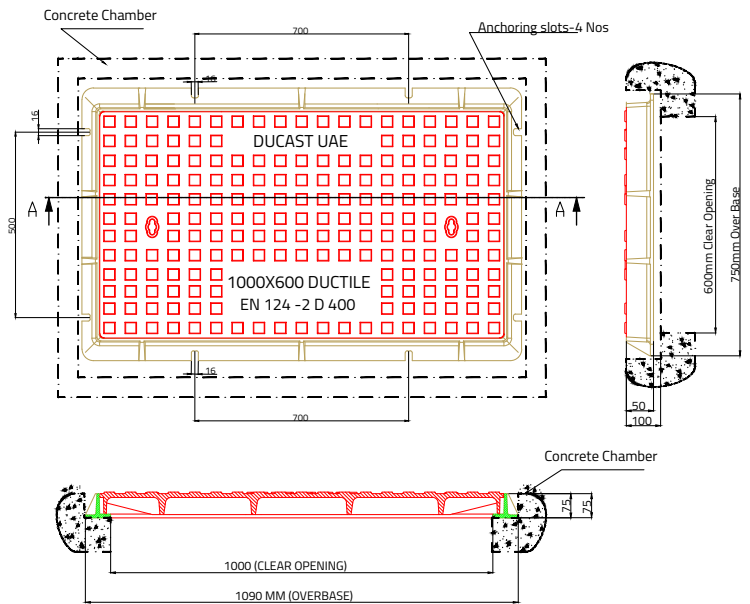
CODE	SIZE (MM)	FRAME HEIGHT (MM)	OVER BASE (MM)	DESCRIPTION	SEAL	PROVISION FOR GRP	LOADING CLASS
DI-SA-60RC	600x600	120 (R-80)	800x840	600x600mm Clear Opening Ductile Iron Kerb Type Recess Cover & Frame	-	-	D 400
DI-5RC	500x500	100 (R-75)	640x640	500x500mm Clear Opening Ductile Iron Recess Cover & Frame	SS	N	D 400
DI-9RC	900x900	115 (R-80)	1105x1105	900x900mm Clear Opening Ductile Iron Recess Cover & Frame	DS	N	D 400
DI-1270RC	1200x700	110 (R-80)	1290x900	1200x700mm Clear Opening Ductile Iron (2-Part)Recess Cover & Frame	-	-	D 400
DI-1870RC	1800x700	110 (R-80)	1890x900	1800x700mm Clear Opening Ductile Iron (3-Part)Recess Cover & Frame	-	-	D 400

DUCTILE IRON SOLID TOP COVER & FRAME

FEATURES

- Manufactured to EN - 124 - 2 (2015).
- Badging optional
- Paint as per customer's requirement.
- EPDM Rubber Seal

NEOM

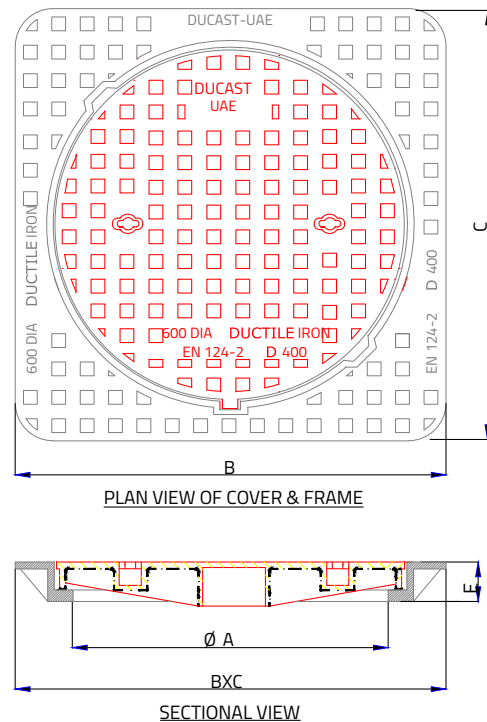
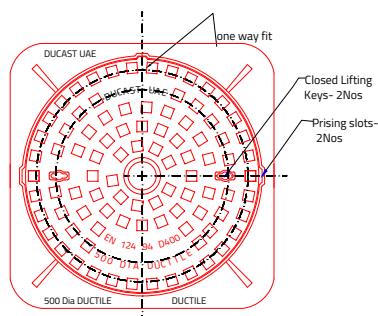


CODE	CLEAR OPENING	OVERBASE	FRAME DEPTH	KITEMARK PRODUCTS	S.S/D.S	GRP SEAL PLATE PROVISION	LOADING CLASS
DI-1060D	1000X600	1090X750	75	-	NO	NO	D400
DI-1060B	1000X60	1090X750	75	-	NO	NO	B125

DUCTILE IRON SEAL CIRCULAR SOLID TOP COVER & FRAME

FEATURES

- Manufactured to EN - 124 - 2 (2015).
- Badging optional
- Paint as per customer's requirement.
- EPDM Rubber Seal



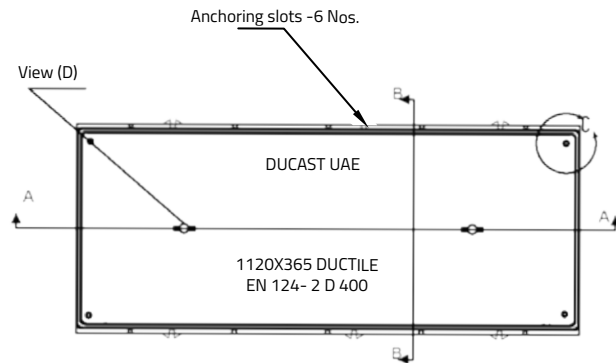
CODE	CLEAR OPENING	OVERBASE	FRAME DEPTH	KITEMARK PRODUCTS	S.S/D.S	GRP SEAL PLATE PROVISION	LOADING CLASS
DI-SA-600 DIA	600 DIA	800X800	75	-	SS	-	D400
DI-SA-185	600 DIA	830X830	150	-	SS	-	D400

DUCTILE IRON RECESS COVER & FRAME WITH RUBBER SEAL & BOLTED

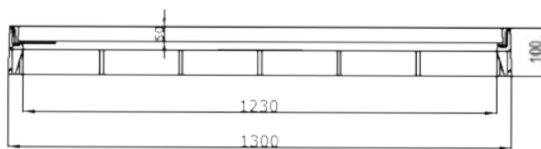
AMALA - RED SEA

FEATURES

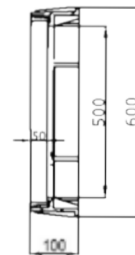
- Manufactured to EN - 124 - 2 (2015).
- Badging optional
- Paint as per customer's requirement.
- EPDM Rubber Seal



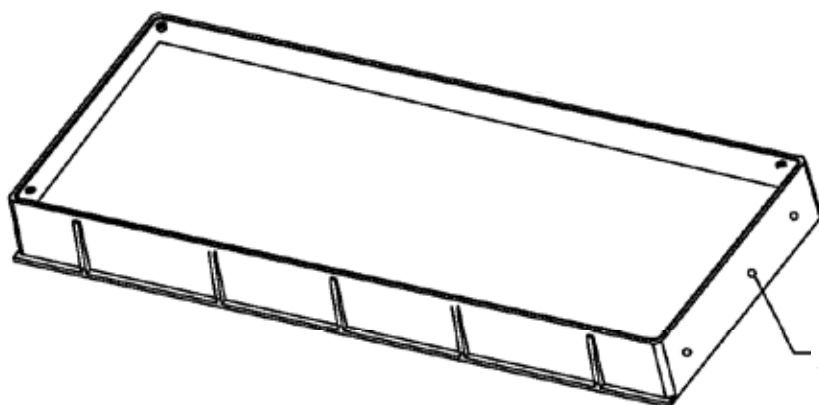
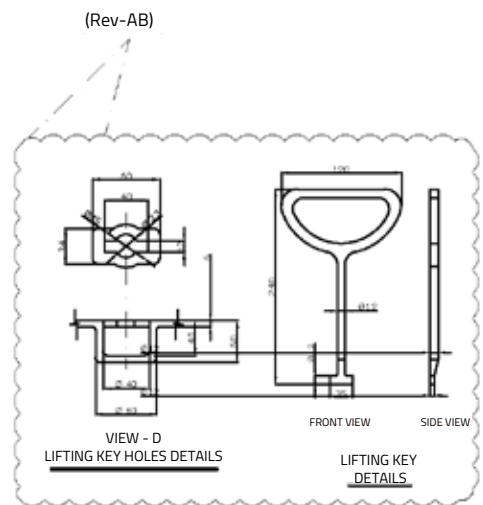
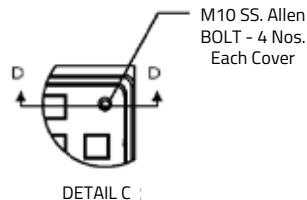
PLAN VIEW OF COVER & FRAME



SECTION A-A



SECTION B - B

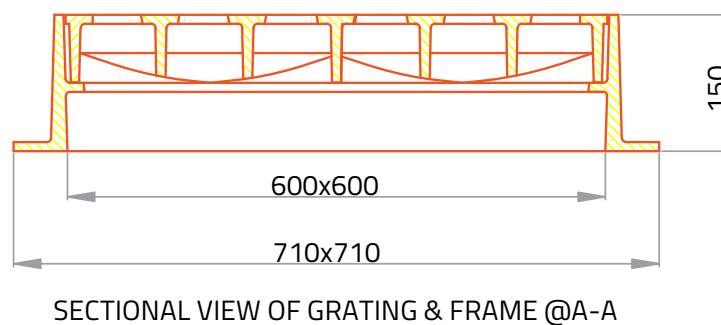
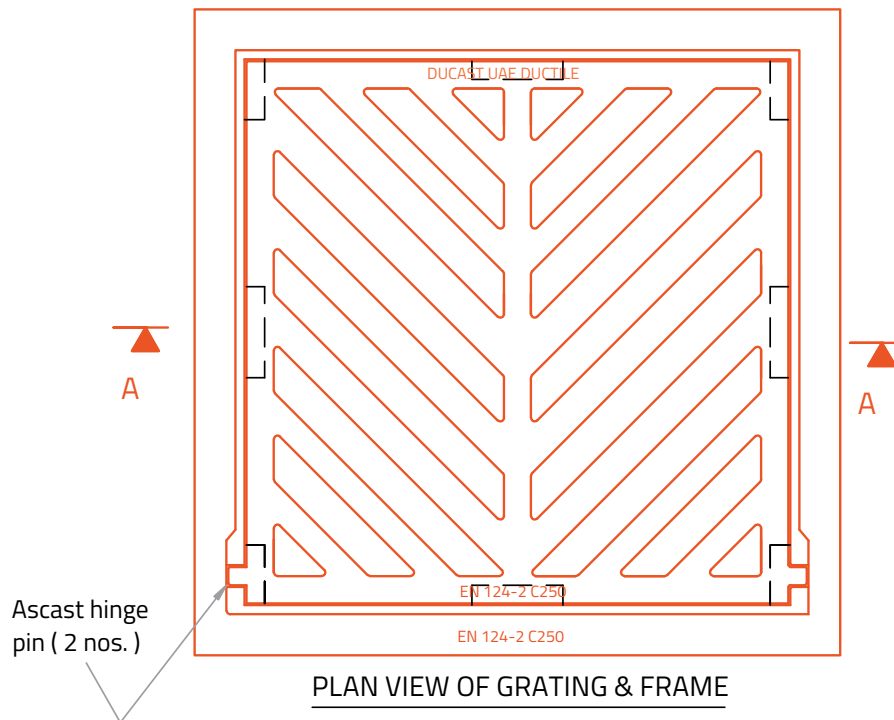


CLEAR OPENING (MM)	OVERBASE (MM)	FRAME HEIGHT (MM)	RECESS HEIGHT (MM)	LOADING KN	STANDARD
1120X635	1220X740	100	50	15 KN	EN 124 - 2015

DUCTILE IRON TOP ENTRY GULLY COVER & FRAME

FEATURES

- Manufactured to EN - 124 - 2 (2015).
- Paint as per customer's requirement.

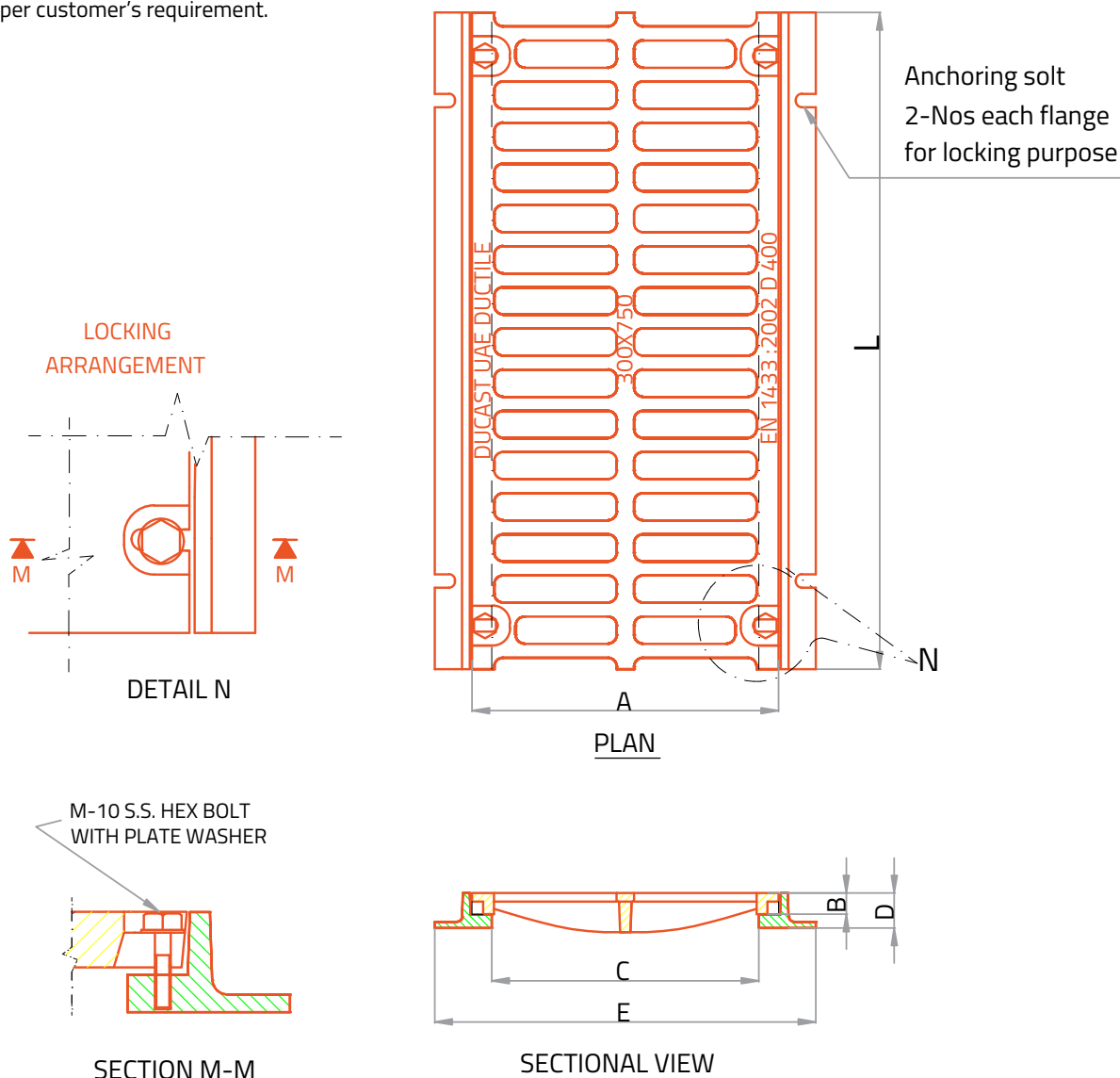


CODE	SIZE (MM)	FRAME HEIGHT (MM)	OVER BASE (MM)	DESCRIPTION	SEAL	PROVISION FOR GRP	LOADING CLASS
DI-SA-G5D	500x500	80	640x640	500x500mm Clear Opening Ductile Iron Ascast Hinged Type Top Entry Grating & Frame	N	N	D 400
DI-SA-G4	600x600	150	710x710	600x600mm Clear Opening Ductile Iron Ascast Hinged Type Top Entry Grating & Frame	N	N	C 250
DI-SA-G4D	600x600	150	710x710	600x600mm Clear Opening Ductile Iron Ascast Hinged Type Top Entry Grating & Frame	N	N	D 400

DUCTILE IRON CHANNEL GRATING & BEARER BARS

FEATURES

- Manufactured to EN - 124 - 2 (2015).
- Paint as per customer's requirement.



CODE	WIDTH OF GRATING A (MM)	GRATING DEPTH B (MM)	CLEAR OPENING C (MM)	LENGTH L (MM)	WIDTH OVER ALL FRAME E (MM)	FRAME DEPTH D (MM)
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-5N	500	50	400	750	550	65
CH-6	660	37	600	610	736	52
CH-8	300	26	250	750	380	42
CH-9	500	26	450	750	600	50
CH-10	570	60	500	750	650	75

TREE GRATES



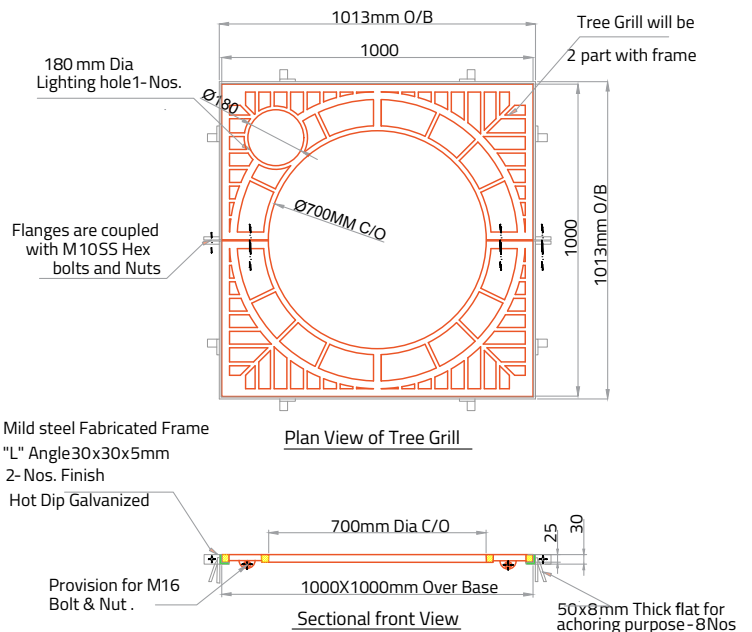
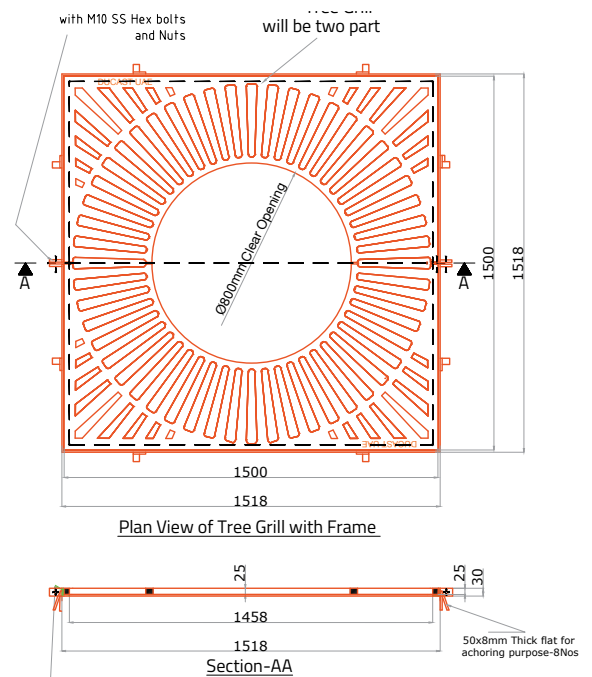
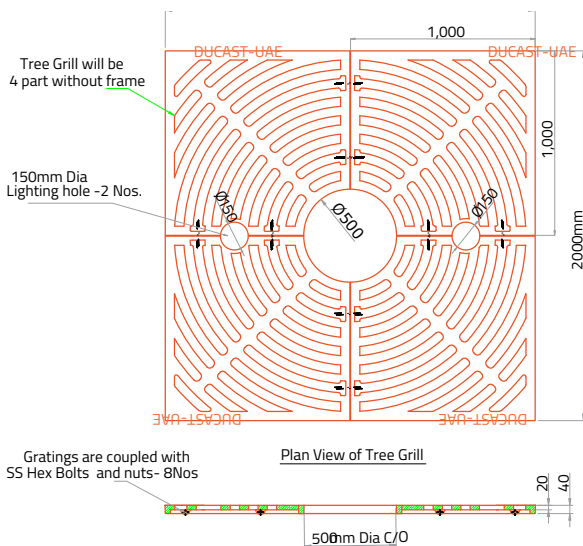
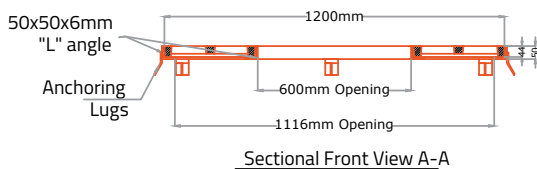
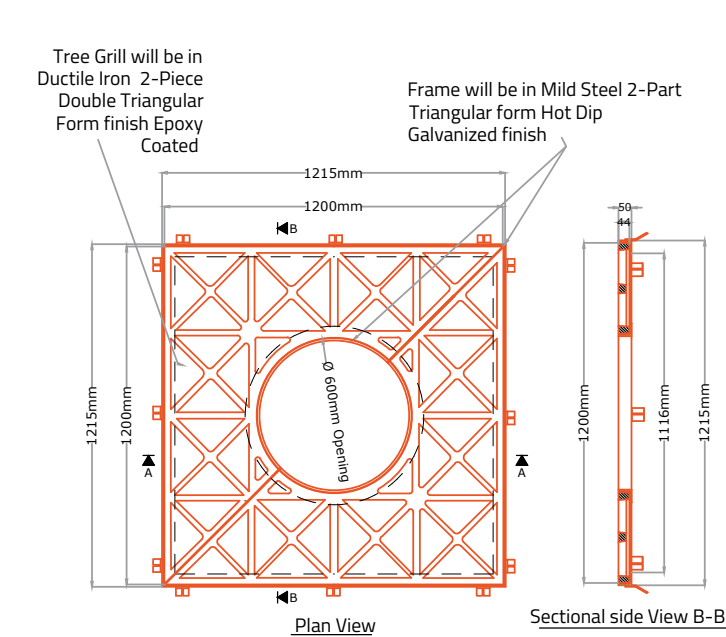
■ Ductile Iron Tree Grating

DUCTILE IRON TREE GRATING

FEATURES

- Paint as per requirement.

CODE	CLEAR OPENING A (mm)	OVER BASE B x C (mm)	FRAME DEPTH E (mm)
DUC-TREE-05	1500 x 1500	600MM DIA	30
DUC-SA-TREE-01	1200 x 1200	600MM DIA	50
CI-TREE- 1010	1000 x 1000	750MM DIA	30
DUC-SA-TREE-2020	2000 x 2000	750MM DIA	40

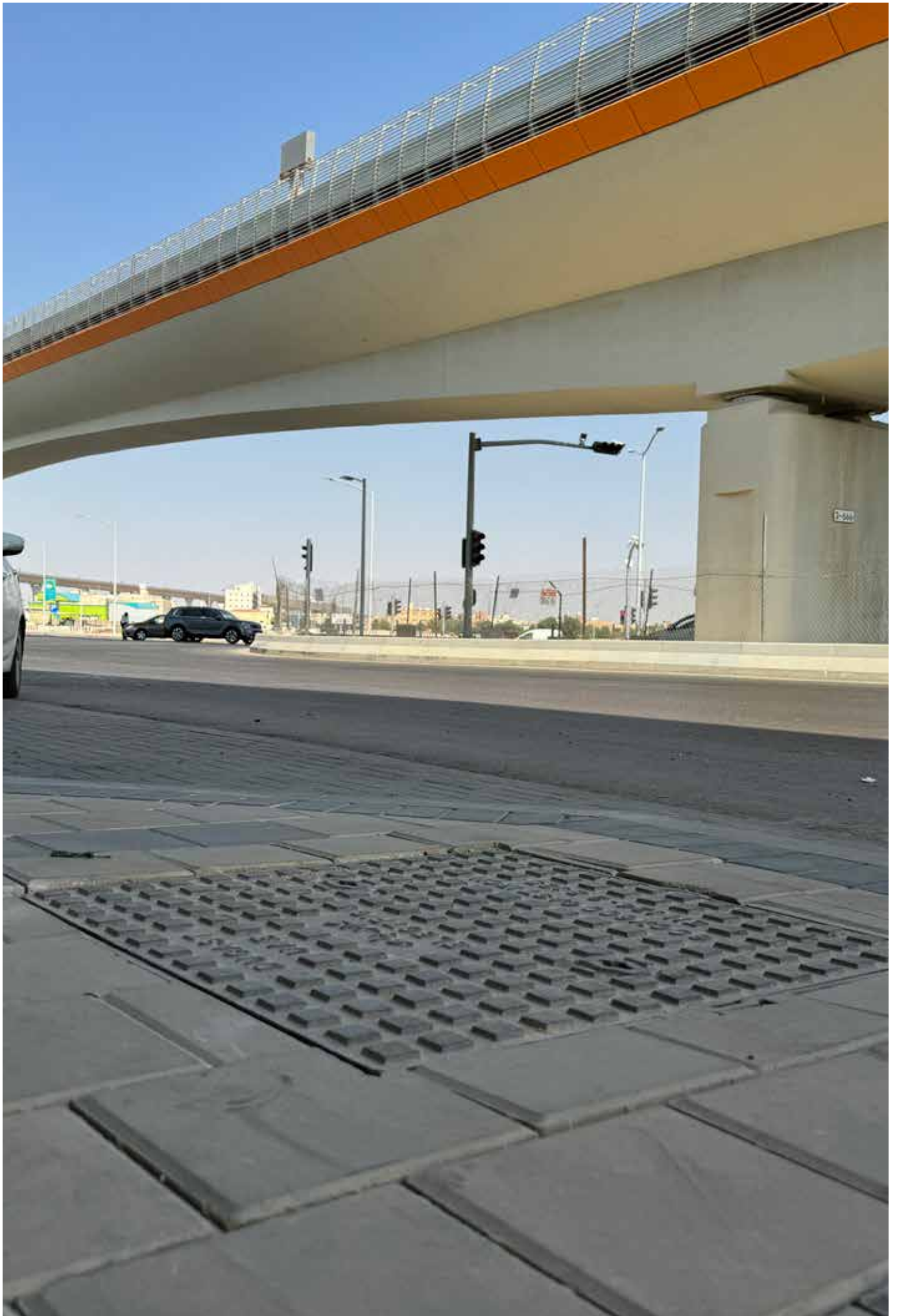




MUNICIPAL CASTINGS



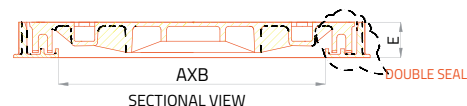
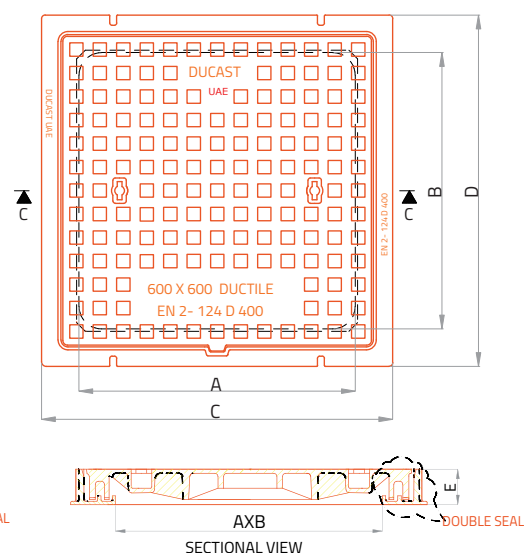
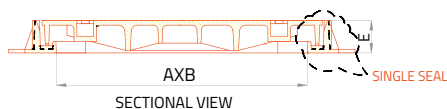
- Solid Top Square Cover & Frame
- Solid Top Circular Cover & Frame
- Double Triangular Cover & Frame
- Double Semi-Circular Cover & Frame
- Recessed Square Cover & Frame
- Recessed Circular Cover & Frame
- Hinged Type Cover
- Hinged Type Grating & Frame
- Top Entry Gully Cover & Frame
- Channel Grating & Bearer Bars
- Kerb Gully Cover & Frame
- Circular Surface Box & Frame
- Cover & Frame for Inlet Catch Basin
- Kerb Inlet Grating
- Pull Box Cover & Frame
- Multiple Cover & Frame
- Trench Covers
- Concrete Infill Type Trench Covers
- 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.



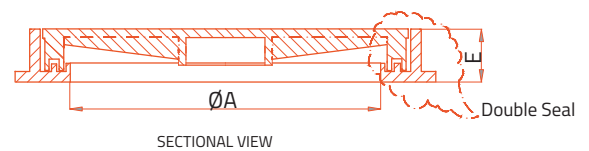
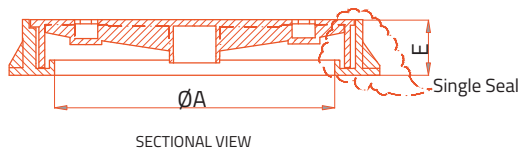
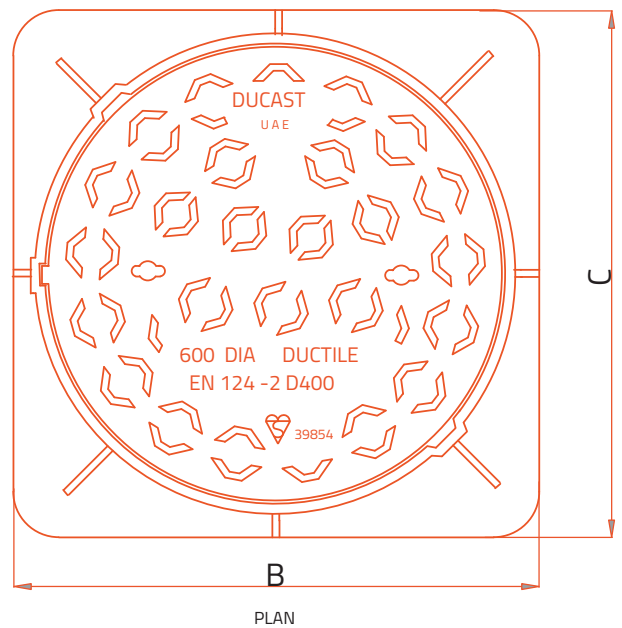
CODE	CLEAR OPENING A x B (mm)	OVER BASE C x D (mm)	FRAME DEPTH E (mm)	KITEMARK PRODUCTS	S.S / D.S	GRP SEAL PLATE PROVISION	LOADING CLASS KN
DI - 23	300 x 300	380 x 380	32	-	S.S	A	125
DI - 23A	300 x 300	426 x 426	32	-	D.S	NA	125
DI - 9	450 x 450	525 x 525	43	-	S.S	A	125
DI - 12A	600 x 600	710 x 710	48	♥	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.



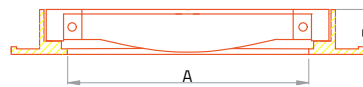
CODE	CLEAR OPENING A (mm)	OVER BASE B x C (mm)	FRAME DEPTH E (mm)	KITEMARK PRODUCTS	S.S / D.S	GRP SEAL PLATE PROVISION	LOADING CLASS KN
DI-19	600MM	750 x 750	75	♥	S.S	A	125
DI-19B	600MM	790 MM	50	-	D.S	A	125
DI-31A	Ø750	870Ø	50	♥	-	A	125
DI-90B	Ø900	1065Ø	50	-	-	A	125
DI-DIA-75C	Ø750	915Ø	75	-	-	A	C250
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



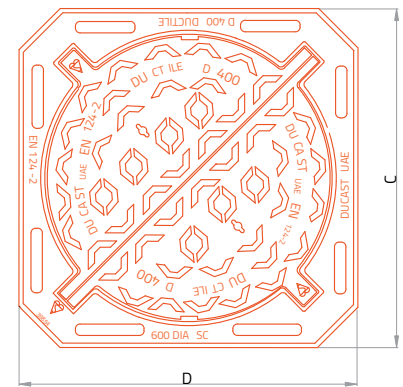
DOUBLE SEMI-CIRCULAR COVER & FRAME

FEATURES

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



SECTIONAL VIEW



PLAN VIEW OF COVER & FRAME

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

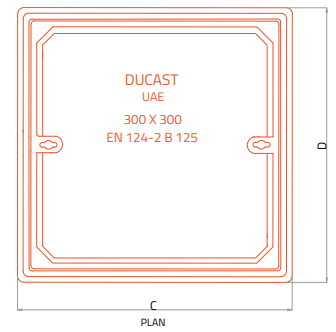
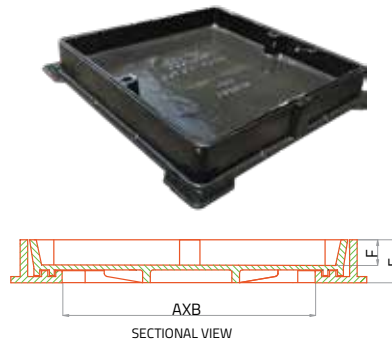




RECESSED SQUARE COVER & FRAME

FEATURES

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

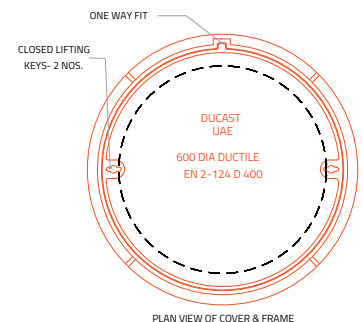
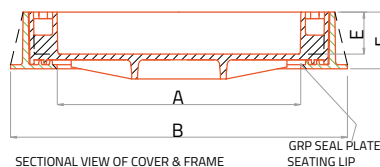


CODE	CLEAR OPENING A x B (mm)	OVER BASE C x D (mm)	FRAME DEPTH E (mm)	RECESSED DEPTH F (mm)	S.S / D.S	GRP SEAL PLATE PROVISION	LOADING CLASS KN
DIRC-3	300 x 300	440 x 440	75	47	D.S	NA	B 125
DIRC-14	450 x 450	595 x 595	68	35	S.S	NA	B 125
DIRC-2	600 x 450	750 x 600	75	35	S.S	NA	B 125
DI-6060RC	600 x 600	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.
- ♥ - Denotes that the product is kitemarked.



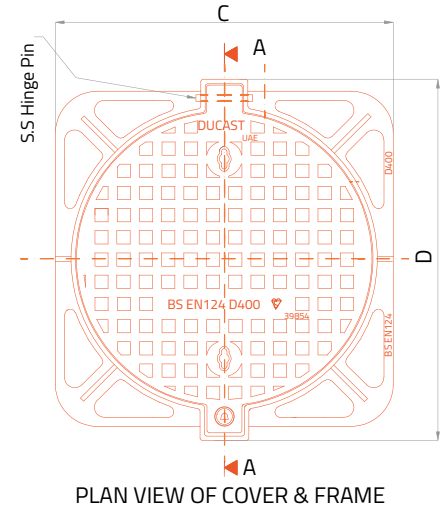
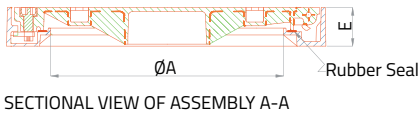
CODE	CLEAR OPENING A (mm)	OVER BASE B x C (mm)	FRAME DEPTH E (mm)	RECESSED DEPTH F (mm)	S.S / D.S	GRP SEAL PLATE PROVISION	LOADING CLASS KN
DI - 18RC	600 DIA	750 x 750	100	50	S.S	Y	400
DI - 18RCA	600 DIA	800 DIA	140	100	D.S	Y	400
DI - 17RCA	675 DIA	875 DIA	135	100	D.S	Y	400
DIRC - 19	900 DIA	1120 DIA	140	100	D.S	NA	400



HINGED TYPE COVER

FEATURES

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

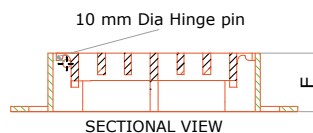


CODE	CLEAR OPENING AXB (mm)	OVER BASE CXD (mm)	FRAME DEPTH E (mm)	KITEMARK PRODUCT	GRP SEAL PLATE PROVISION	LOADING CLASS KN
DI-19D	600 DIA	755 x 720	65	N	N	B-125
DI-24	600 DIA	725 x 725 x 850	100	Y	A	D 400
DI-24DH	600 DIA (Ascast Hinge)	725 x 725 x 850	100	Y	A	D 400
DI-24BH	600 DIA (Ascast Hinge)	725 x 725 x 850	100	Y	A	B 125
DI-17H	675 DIA	815 x 815 x 865	100	N	A	D 400
DI-3C	600x600	740x830	100	N	A	400
DI-70F	700x700	810X935	100	N	A	900

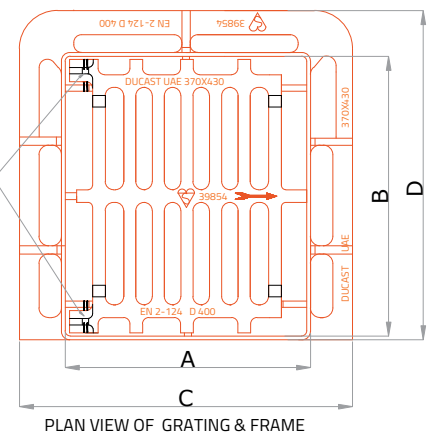
HINGED TYPE GRATING & FRAME

FEATURES

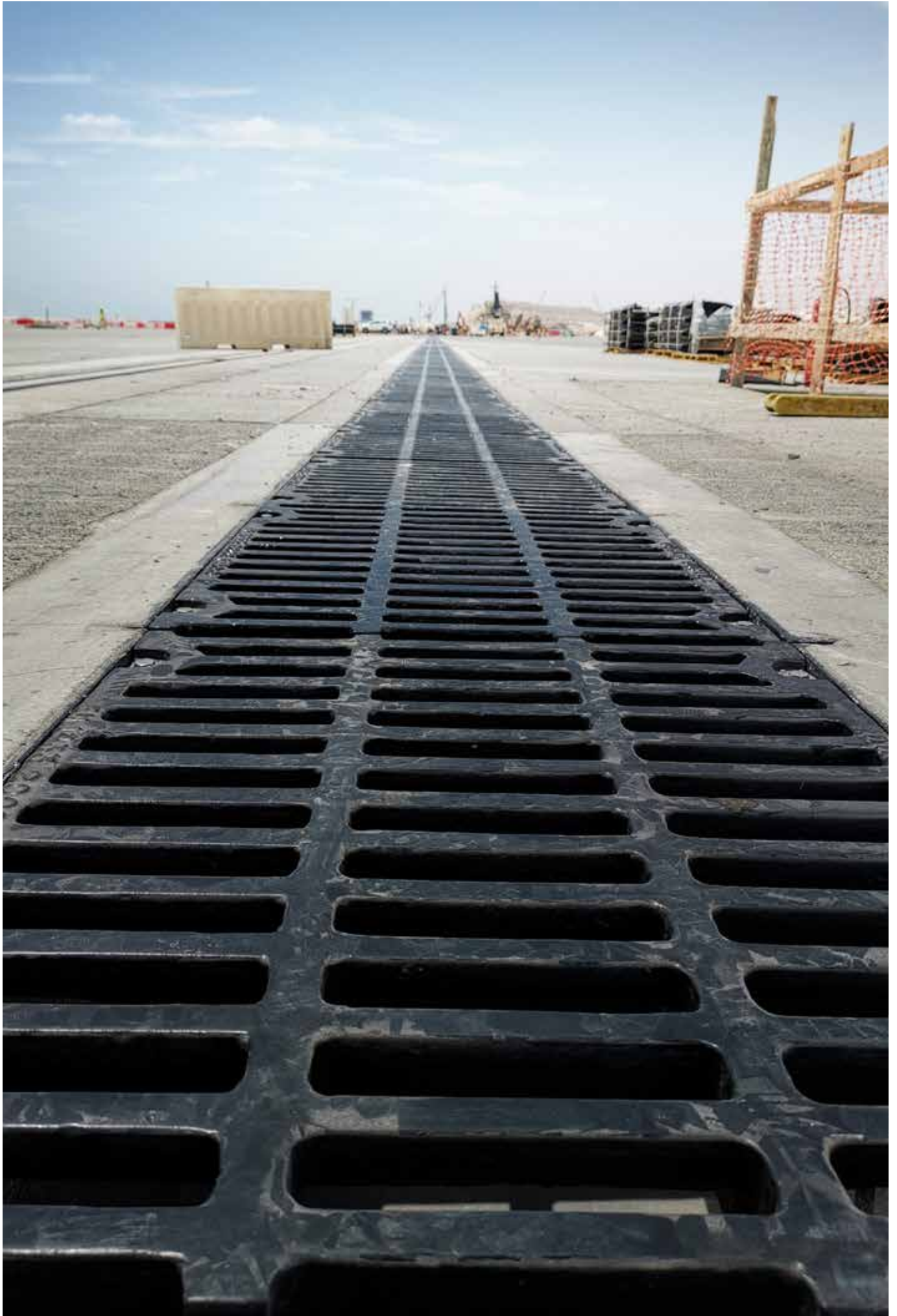
- Manufactured to EN - 124 - 2 (2015).
- Badging optional
- Paint as per customer's requirement.
- ♥ - Denotes that the product is kitemarked.



Hinge Position
Frame Dia 10 mm Drill
Cover Dia 11 mm Drill
with 10 mm Dia Hinge pin



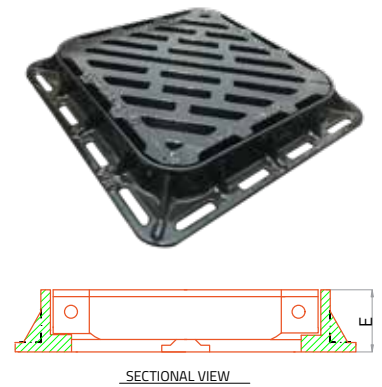
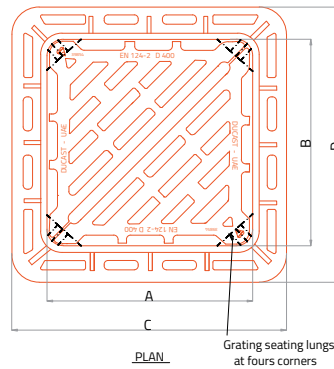
CODE	CLEAR OPENING A x B (mm)	OVER BASE C x D (mm)	FRAME DEPTH E (mm)	KITEMARK PRODUCT	LOADING CLASS KN
DI-HG-01	370 x 430	520 x 520	100	♥	D 400
DU-317H H.D	385 x 317	530 x 405	75	-	D 400
G - 4A	600 x 600	750 x 765	100	-	D 400
G - 8A	750 x 750	920 x 840	100	-	D 400
G - 3E	355 x 500	450 x 600	100	-	D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



TOP ENTRY GULLY COVER & FRAME

FEATURES

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

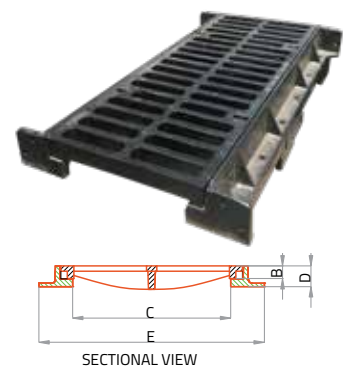
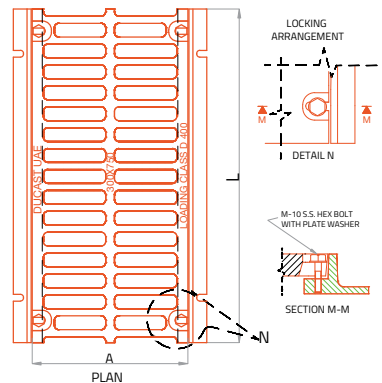


CODE	CLEAR OPENING A x B (mm)	OVER BASE C x D (mm)	FRAME DEPTH E (mm)	KITEMARK PRODUCT	LOADING CLASS KN
G-3	434 x 434	584 x 520	100	♥	400
G-3A	450 x 450	555 x 555	100	-	400
G-4	600 x 600	755 x 755	100	♥	400
G-7	700 x 700	850 x 850	100	-	400
G-8N	635 x 635	800 x 800	100	-	400
G-36	360 x 560	580 x 780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

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



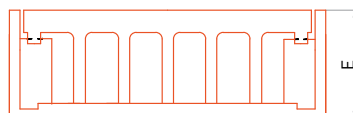
CODE	WIDTH OF GRATING A X B (mm)	GRATING DEPTH B (mm)	CLEAR OPENING C (mm)	LENGTH L (mm)	WIDTH OVERALL FRAME E (mm)	FRAME DEPTH
CH-1A	350	26	300	750	435	42
CH-2	400	26	350	750	480	42
CH-3	200	26	150	750	280	42
CH-4	250	26	200	750	330	42
CH-5	500	50	400	750	600	70
CH-6	660	37	600	610	736	52
CH-8	300	26	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



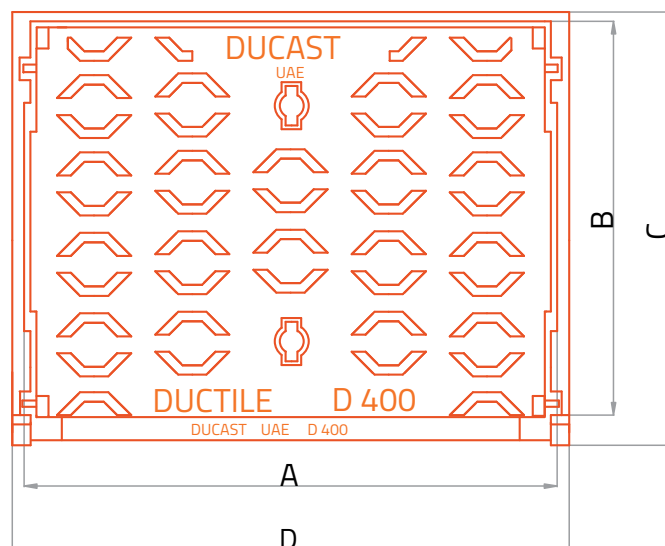
KERB GULLY COVER & FRAME

FEATURES

- Badging optional
- Paint as per customer's requirement.
- ♡ - Denotes that the product is kitemarked.



FRONT VIEW OF COVER & FRAME



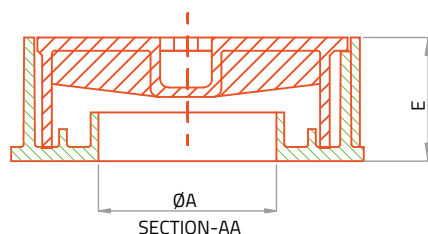
PLAN VIEW OF COVER & FRAME

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	N	250
DI-K2	532 x 405	460 x 558	205	Debris Grid	N	400
DI-K2A	532 x 405	492 x 610	250	Debris Grid	N	400
DI-K3	532 x 405	492 x 610	205	Debris Grid	Y	400
DI-K4	800 x 405	875 x 500	205	Debris Grid	Y	400

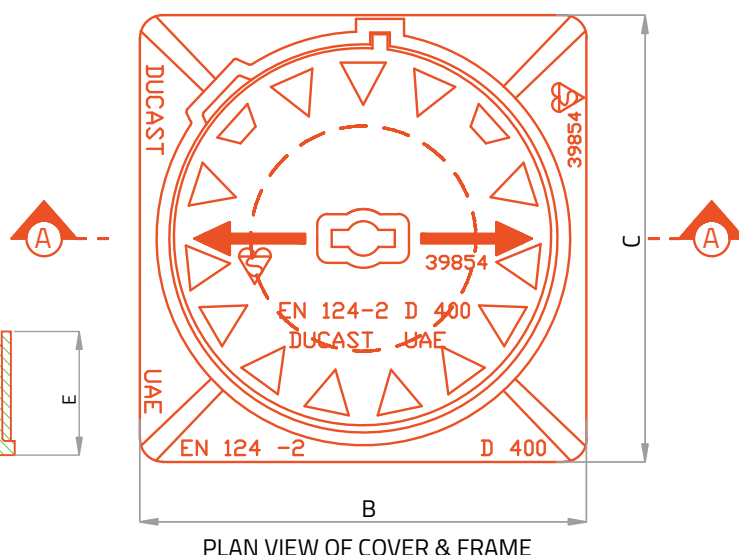
CIRCULAR SURFACE BOX & FRAME

FEATURES

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



SECTION-AA



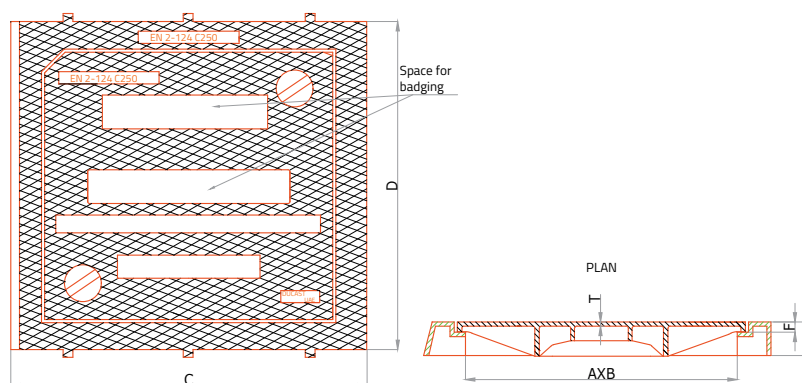
PLAN VIEW OF COVER & FRAME

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.



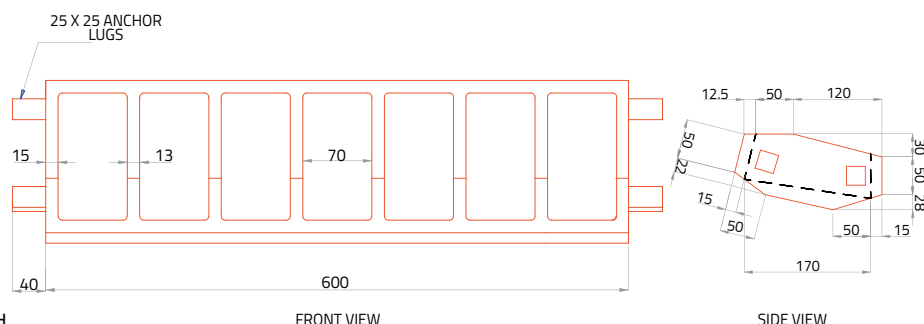
CODE	CLEAR OPENING A x B (mm)	SIZE OF COVER (mm)	OVER BASE C X D (mm)	FRAME DEPTH E (MM)	LOADING CLASS KN
CB - 1	660 x 610	705 x 665	870 x 800	80	250
CB - 4	660 x 610	705 x 665	870 x 800	40	250
CB - 5	660 x 610	705 x 665	870 x 800	80	400



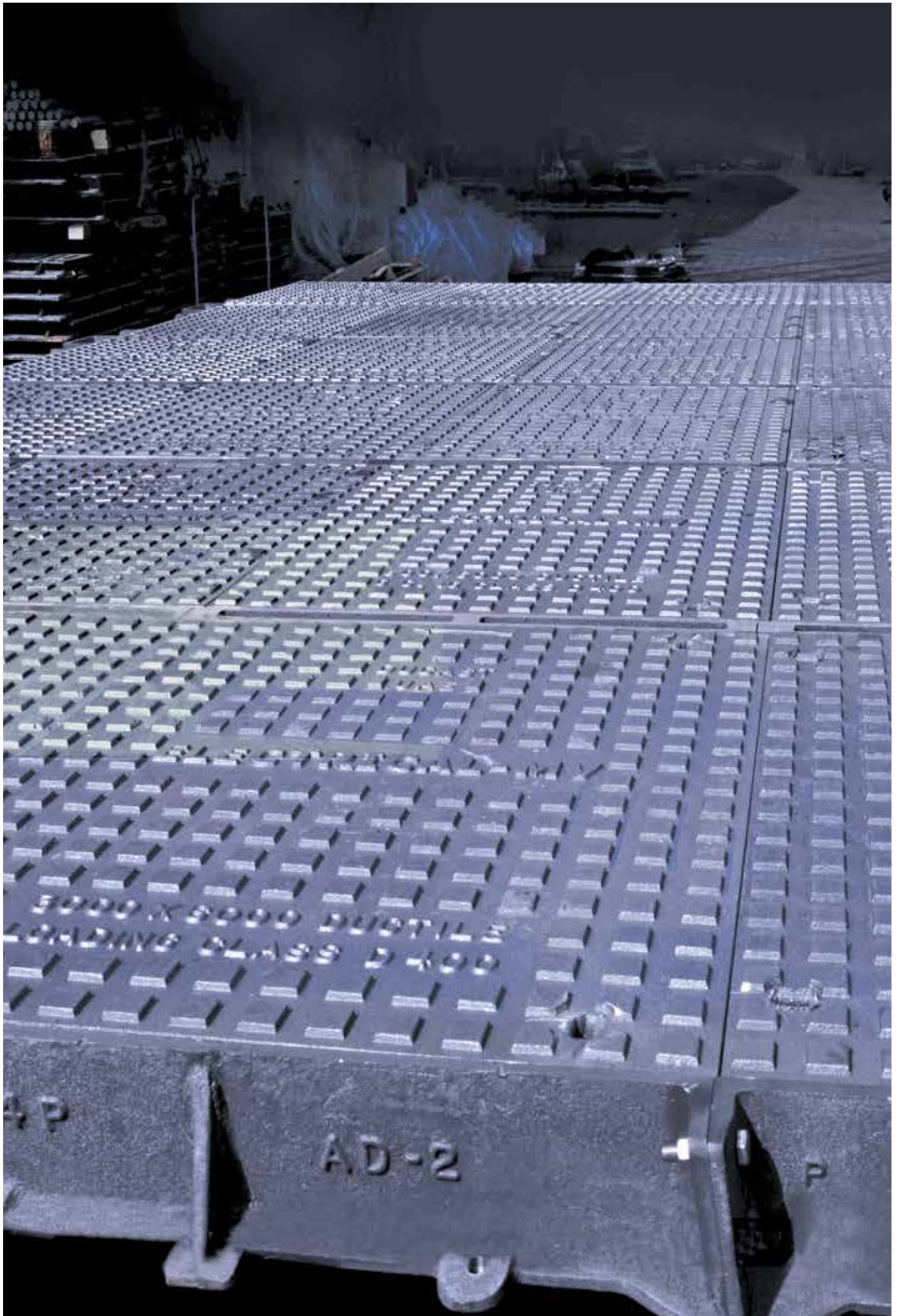
KERB INLET GRATING

FEATURES

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



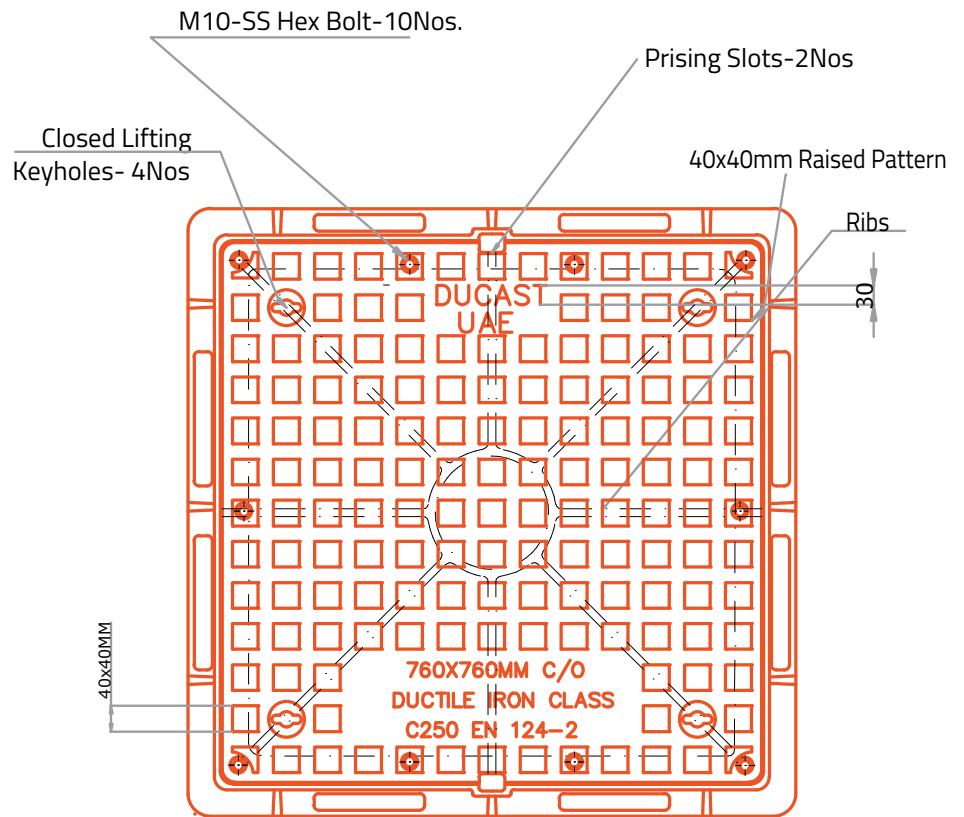
CODE	LENGTH (mm)	OPENING (mm)
CB - 1	600	170
CB-1GA	600	120
CB-2G	700	170
CB-3G	600	270
CB-4G	700	270
CB-6G	600	80
CB-7G	700	120



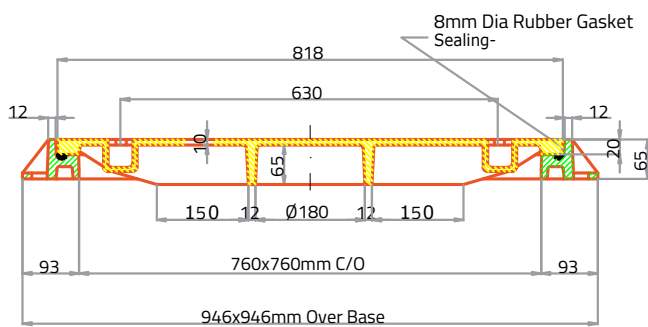
PULL BOX COVER & FRAME

FEATURES

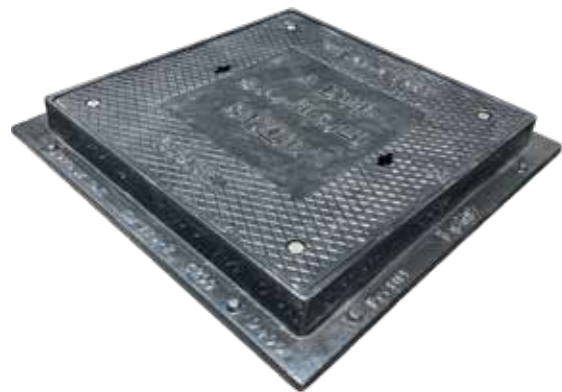
- Manufactured to EN - 124 - 2 (2015).
- Badging optional
- Paint as per customer's requirement.
- ☞ - Denotes that the product is kitemarked.



Plan View of Cover & Frame



Sectional View of Cover & Frame

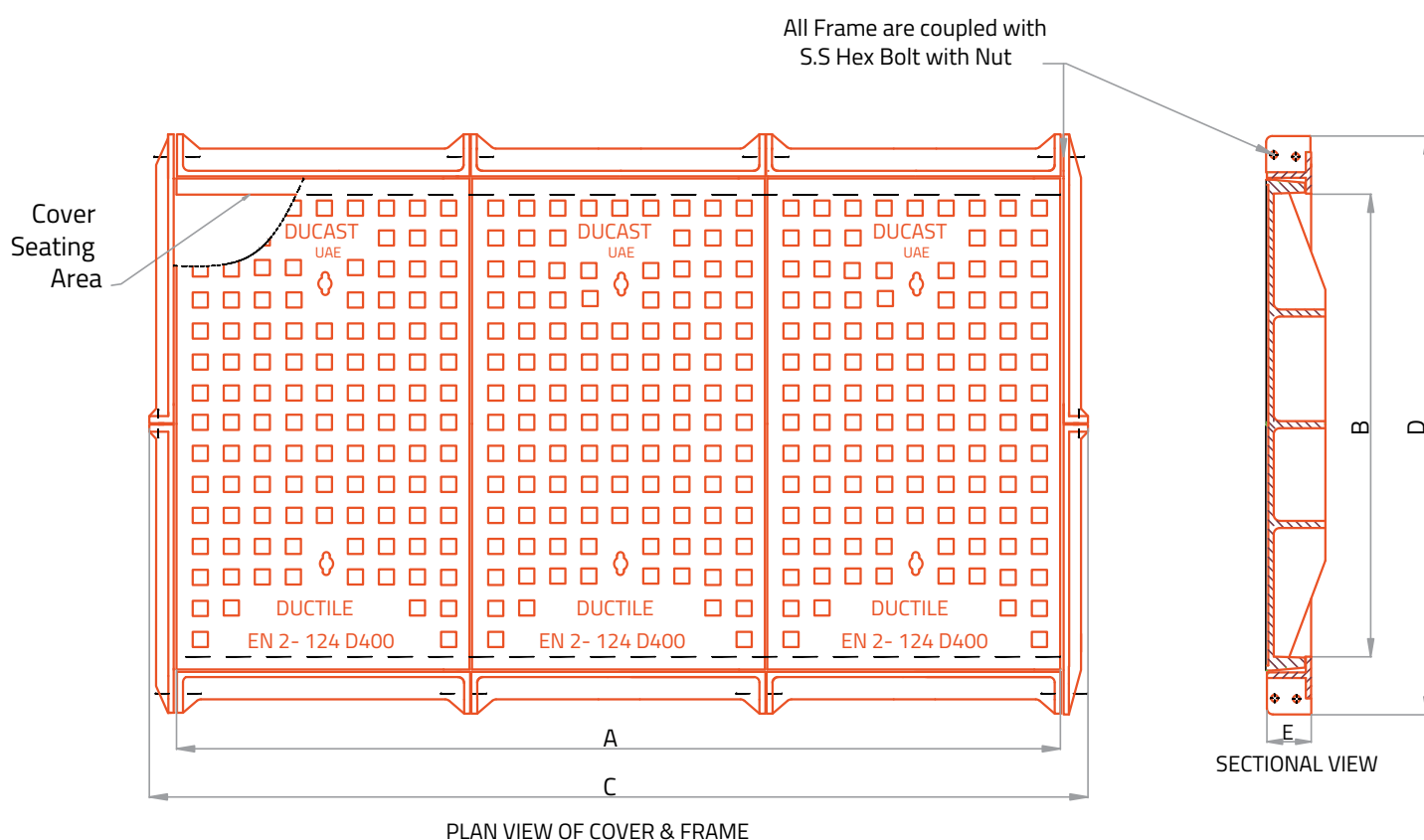


CODE	CLEAR OPENING A x B (mm)	OVER BASE B x C (mm)	FRAME DEPTH E (mm)	LOADING CLASS KN
PB - 4A	450 x 450	610 x 610	65	250
PB - 1N	760 x 760	946 x 946	65	250
PB - 2N	1200 x 1200	1440 x 1440	100	250
PB - 3A	750 x 750	915 x 915	100	400
PB - 6	900 x 900	10656 x 1065	100	400
PB - 2D	1200 x 1200	1480 x 1480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

MULTIPLE COVER & FRAME

FEATURES

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

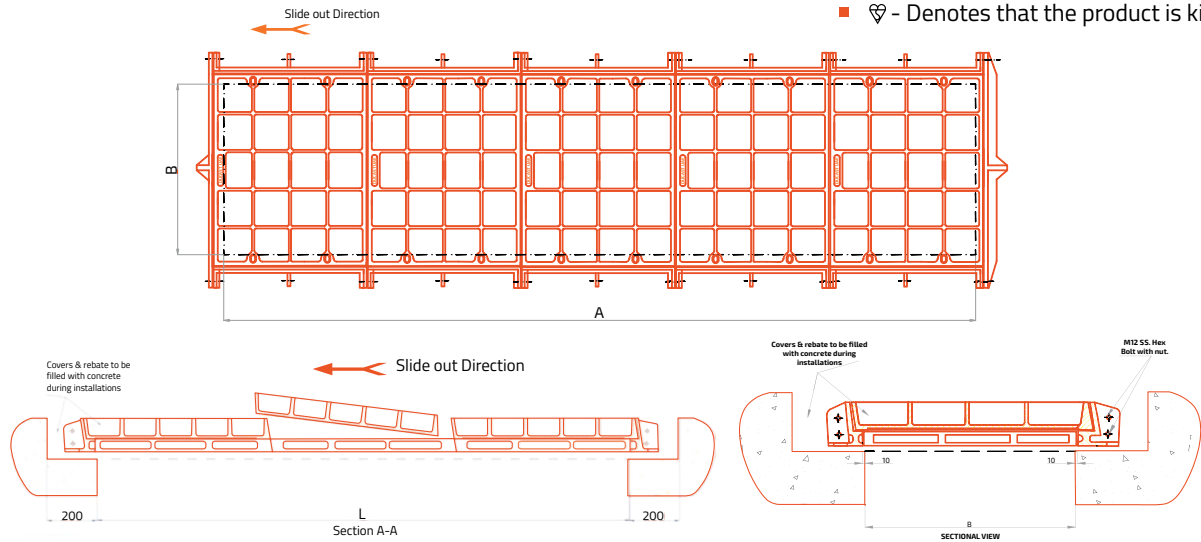


CODE	CLEAR OPENING (AXB) (mm)	OVER BASE (CXD) (mm)	FRAME DEPTH (E) (mm)	NO. OF COVERS	LOADING CLASS KM
DI-2M-1290	1200 x 900	1290 x 1090	75	2	125
DI-2M-1290	1800 x 900	1890 x 1090	75	2	125
DIML-24	1230 x 796	1330 x 920	87	2	400
DIML-16	1200 x 600	1300 x 750	87	2	400
DIML-15	1200 x 900	1290 x 1080	90	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

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 900	1570 x 1170	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 1170	145	3	D400
600	1980 x 600	2250 x 870	145	3	F900
900	2880 x 900	3150 x 1170	145	3	F900

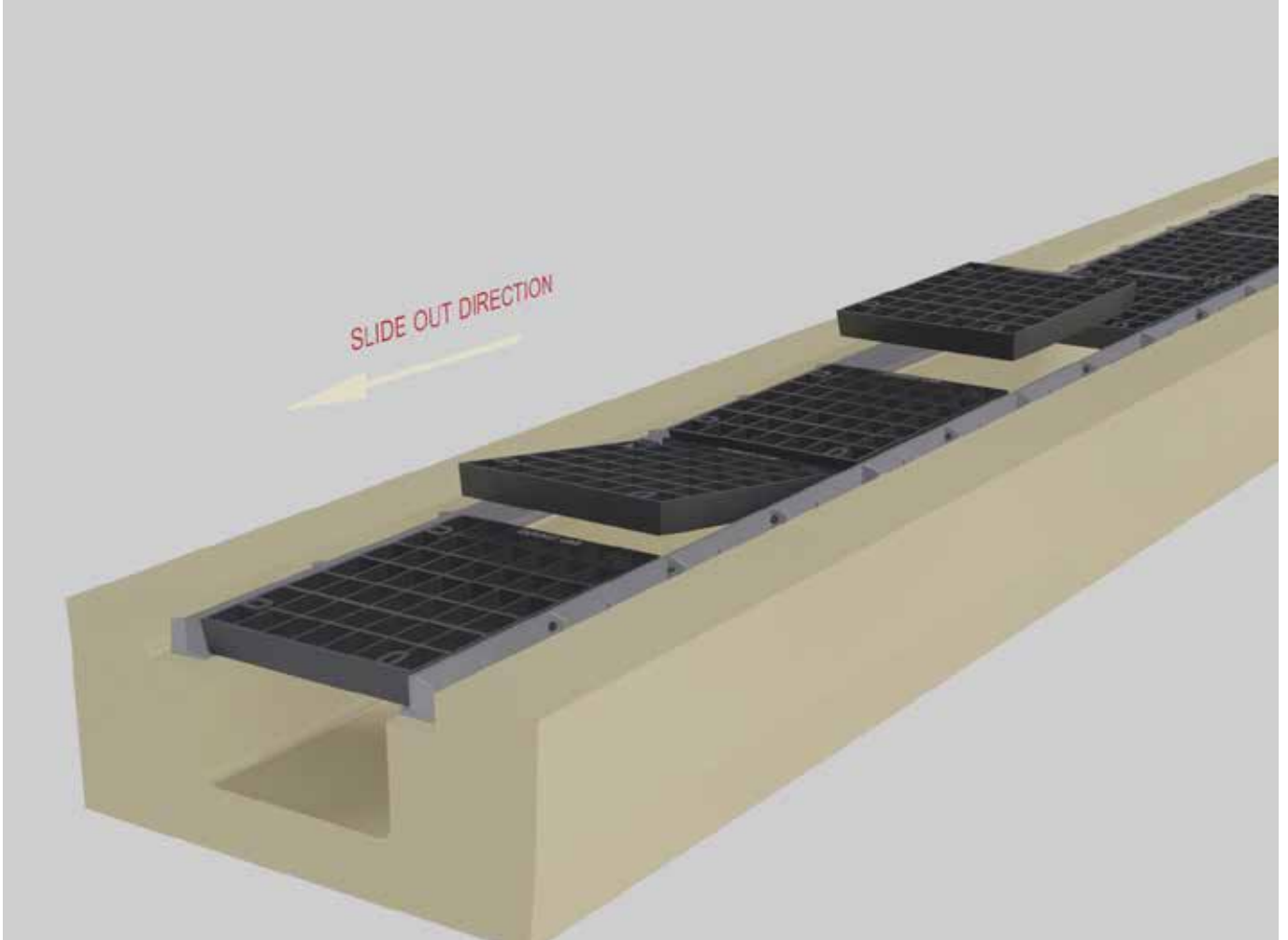
4 PART TRENCH COVER

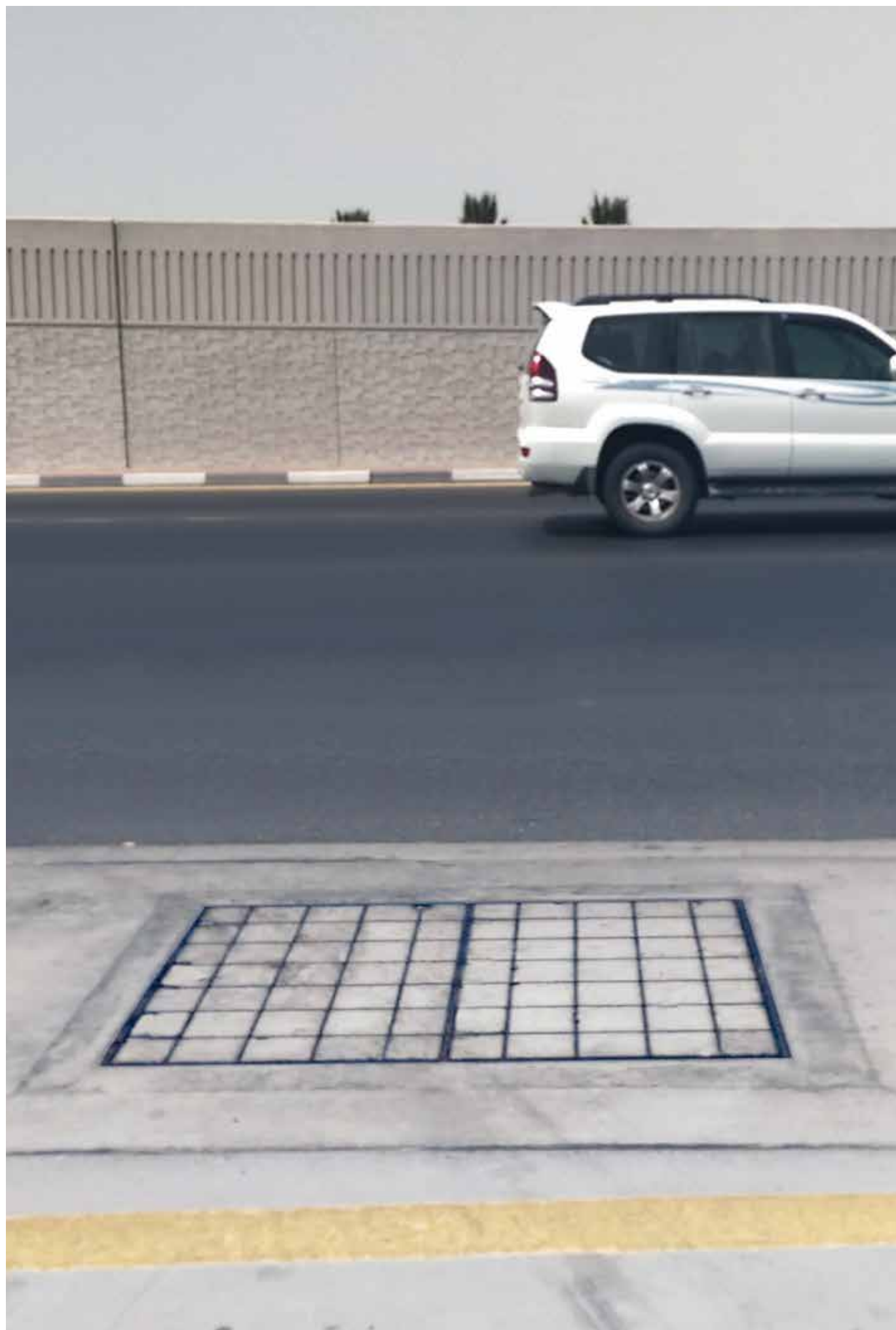
600	2690 x 600	2950 x 870	145	4	D400
750	2690 x 750	2950 x 1030	145	4	D400
900	2690 x 900	2950 x 1170	145	4	D400
600	2690 x 600	2950 x 870	145	4	F900
900	3780 x 900	4050 x 1170	145	4	F900

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

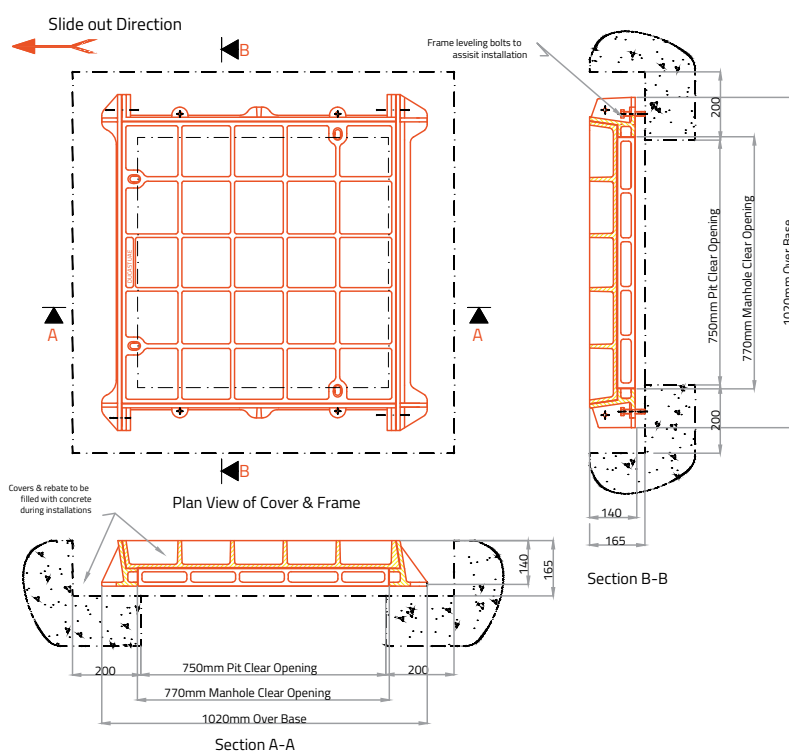




CONCRETE INFILL TYPE COVER & FRAME

FEATURES

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



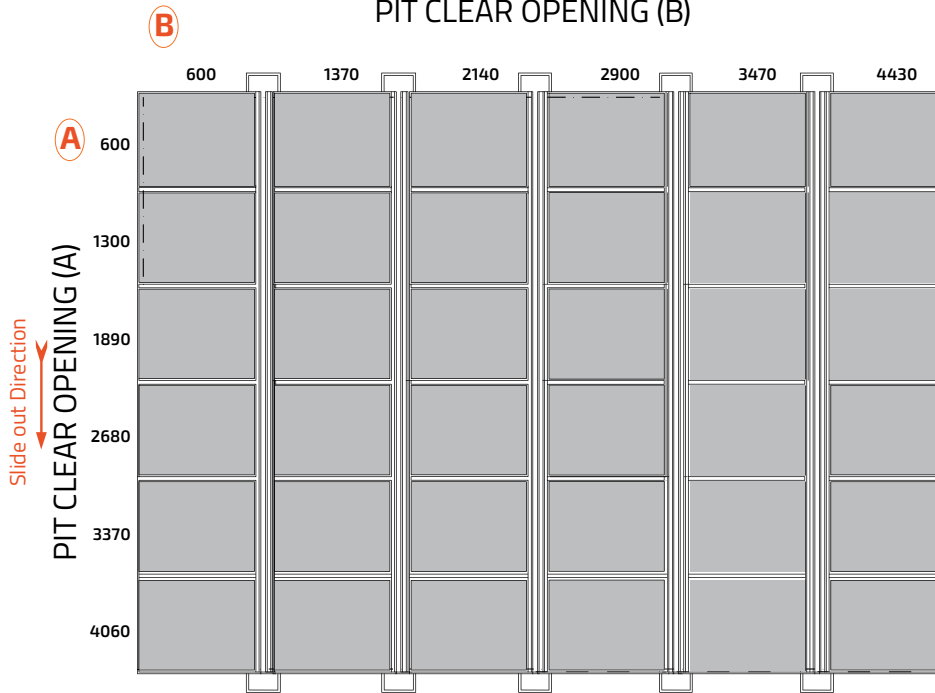
CODE	CLEAR OPENING (AXB) (mm)	OVER BASE (CXD) (mm)	FRAME DEPTH (E) (mm)	NO. OF COVERS	LOADING CLASS KM
PS-2	600 x 750	880 x 1030	145	1	400
PS-1	600 x 900	880 x 1180	145	1	400
DW-1	750 x 750	1000 x 1020	140	1	400
PS-3	750 x 900	1000 x 1180	145	1	400
DI-1-2P	1280 x 750	1550 x 1030	145	2	400
PS-1-3P	1980 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

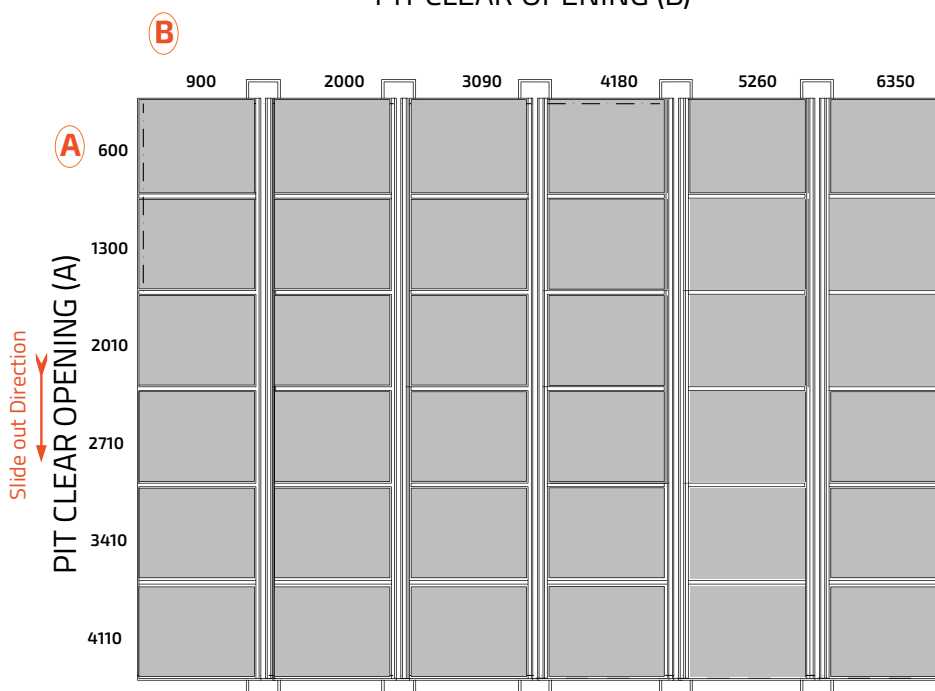
- Manufactured to EN - 124 - 2 (2015).
- Badging optional
- Paint as per customer's requirement.
- ☞ - Denotes that the product is kitemarked.

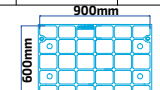
6 Part (6x6) recessed multispan cover
with 5 removable support beam
PIT CLEAR OPENING (B)



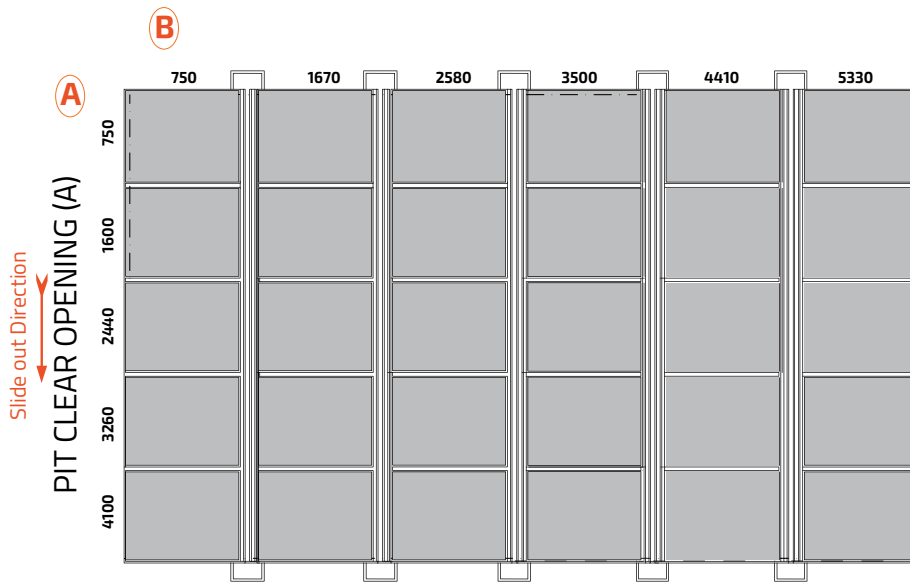
LOADING CLASS D-400					
PUMPING STATION RECESS COVER & FRAME PIT CLEAR OPENING (A X B)					
COVER SIZE 600 X 600 MM					
S/N	AXB	NO.COVER	S/N	AXB	NO.COVER
1300	.1X4	1370	3370	.16x10	1370
1300	.2X6	2140	3370	.17x15	2140
1300	.3X8	2900	3370	.18x20	2900
1300	.4X10	3470	3370	.19x25	3470
1300	.5X12	4430	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 (6x6) recessed multispan cover
with 5 removable support beam
PIT CLEAR OPENING (B)



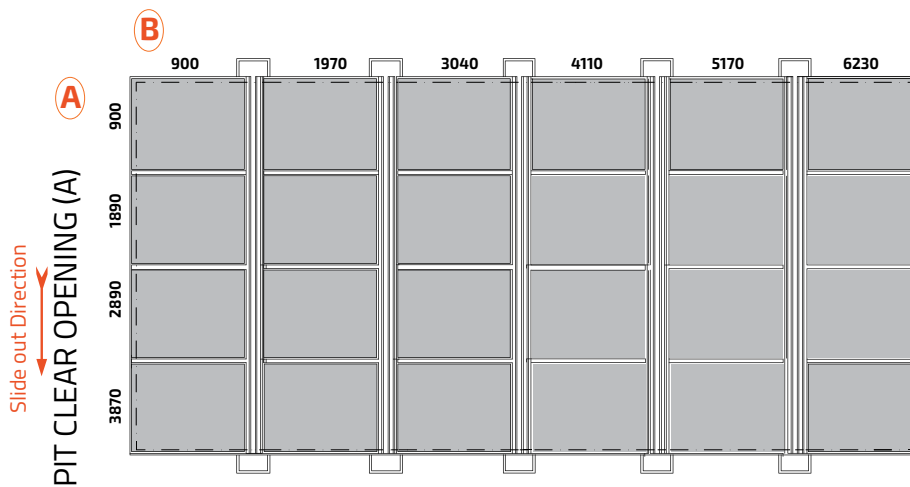
LOADING CLASS D-400					
PUMPING STATION RECESS COVER & FRAME PIT CLEAR OPENING (A X B)					
COVER SIZE 900 X 600 MM					
S/N	AXB	NO.COVER	S/N	AXB	NO.COVER
1310	.1X4	2000	3410	.16x10	2000
1310	.2X6	3090	3410	.17x15	3090
1310	.3X8	4180	3410	.18x20	4180
1310	.4X10	5260	3410	.19x25	5260
1310	.5X12	6350	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 (6x5) recessed multispan cover with 5 removable support beam PIT CLEAR OPENING (B)



LOADING CLASS D-400					
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			

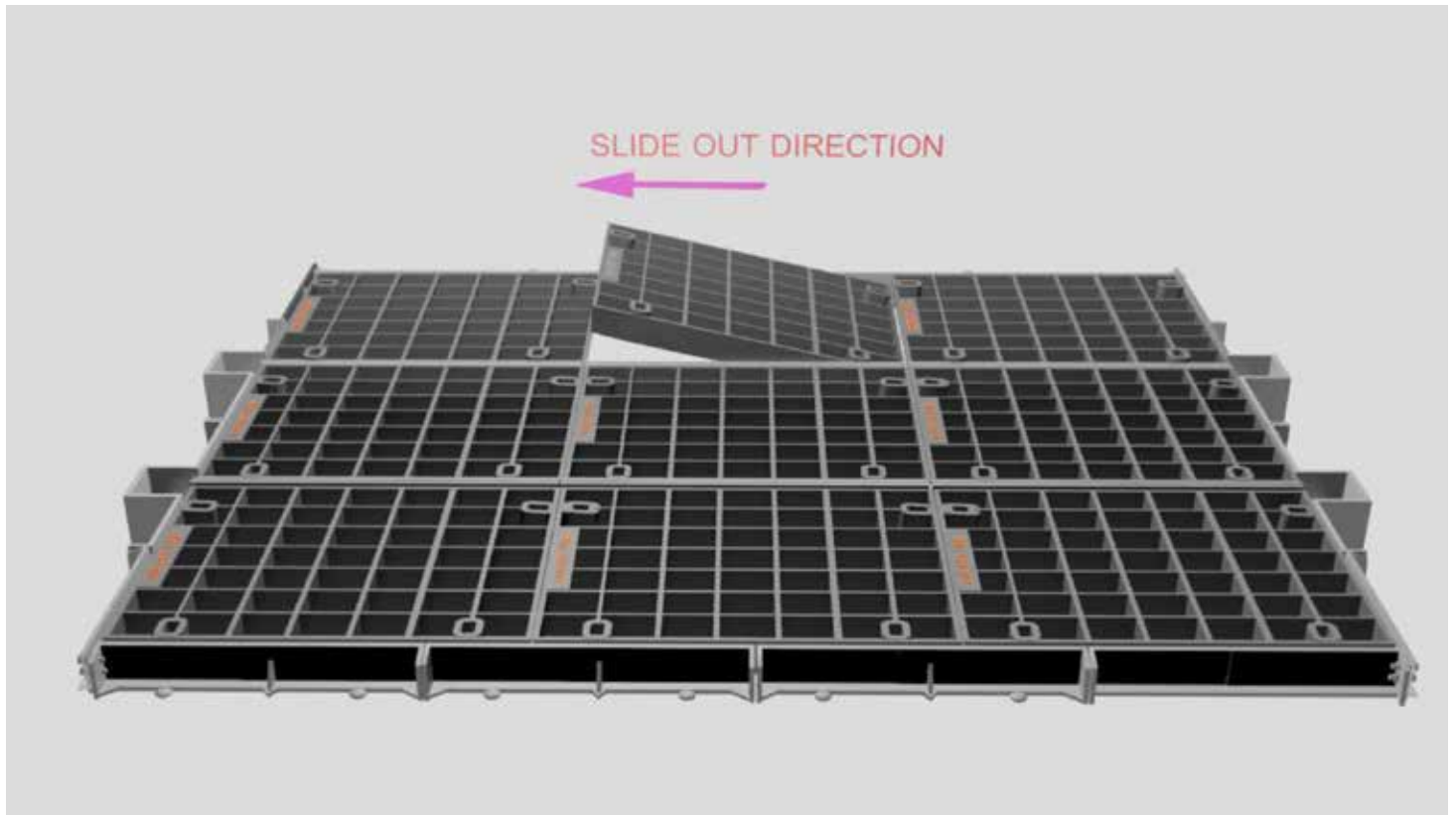
6 Part (6x4) recessed multispan cover with 5 removable support beam PIT CLEAR OPENING (B)



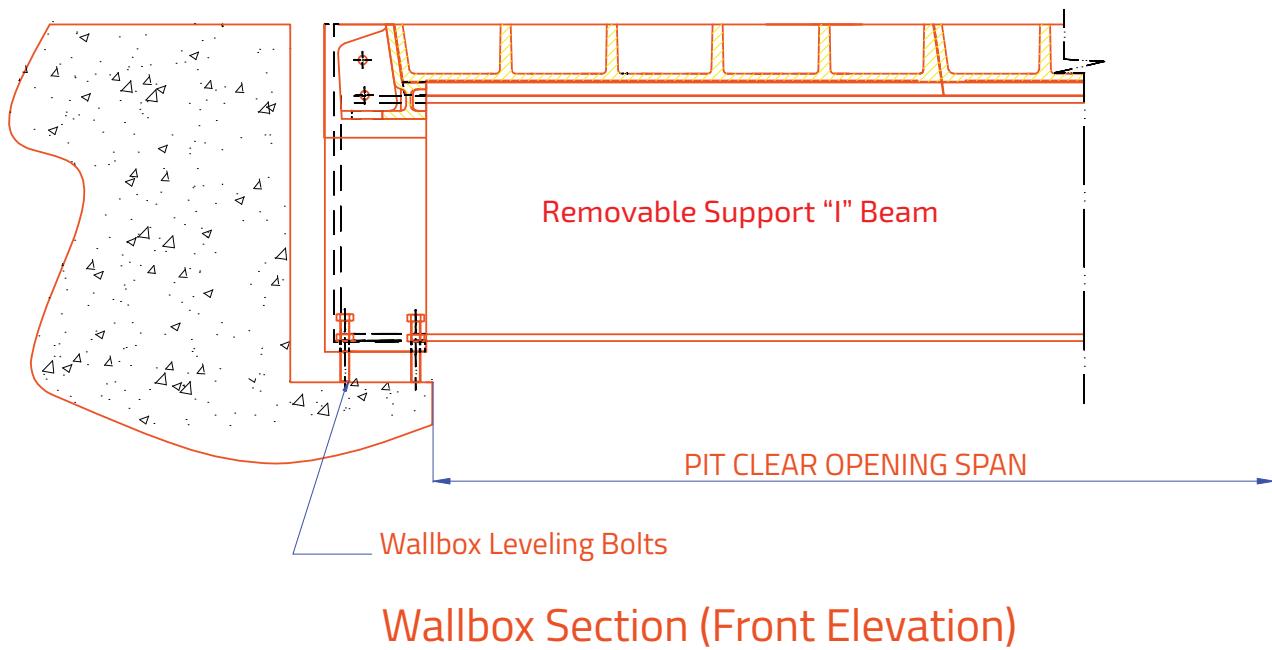
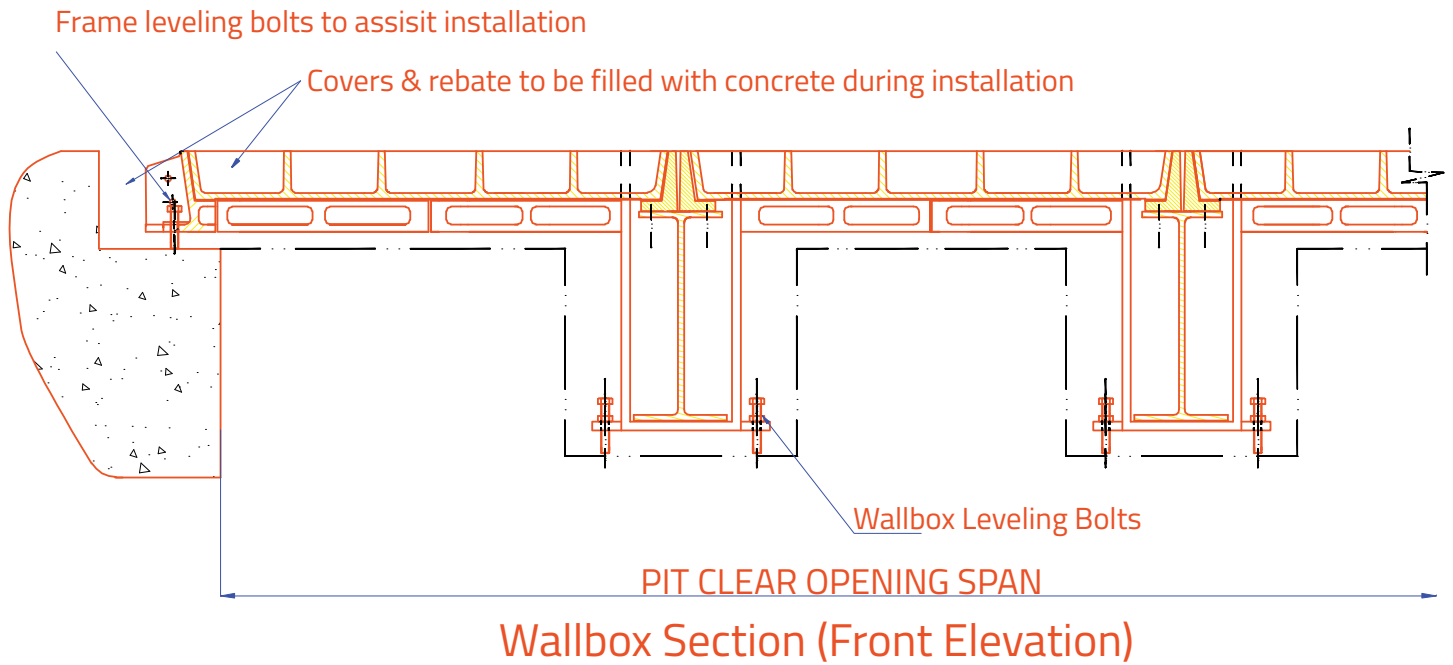
LOADING CLASS D-400					
PUMPING STATION RECESS COVER & FRAME PIT CLEAR OPENING (A X B)					
COVER SIZE 900 X 900 MM					
S/N	AXB	NO.COVER	S/N	AXB	NO.COVER
1890	.1X4	1970			
1890	.2X6	3040			
1890	.3X8	4110			
1890	.4X10	5170			
1890	.5X12	6230			
2880	.6X6	1970			
2880	.7X9	1970			
2880	.8X12	1970			
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 & FRAME

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 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 recessed 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 and 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 slide of frame side and slide 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 levelling bolts (on frame & I-Beam Holder) are adjusted if required.

- Ensure the covers are fit well and the metal to metal contact of cover with frame and non-rocking by walking over.
- Ensure proper alignment without gaps between cover and frame as well as between 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 reaches 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 after another and apply grease generously on the sides and seating portion of both cover and frame and re-install the cover.

Note:

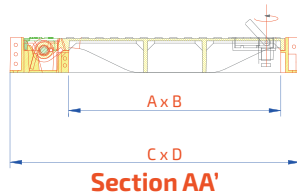
1. For identification of components always refer to the drawing of the unit.
2. If shown on the drawing anchoring of the frame unit to be done as indicated on the drawing.



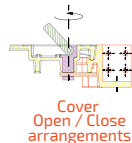
SPRING ASSISTED EASY LIFT COVER

FEATURES

- Manufactured to BSEN 124
- Badging Optional
- Paint as per customer's requirement
- ☑ - Denotes that the product is kitemarked
- Easy access

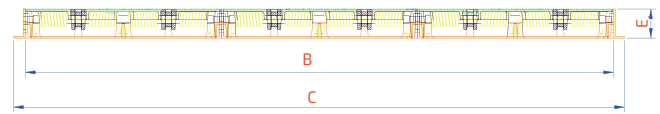


Section AA'

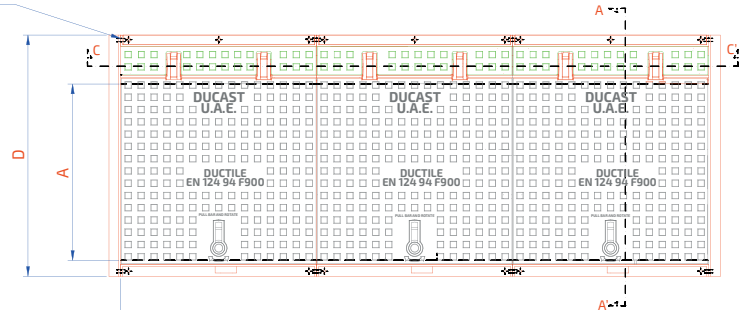


Cover
Open / Close
arrangements

Frames are coupled with
ss Bolts & Nuts



Section - CC'



PLAN VIEW OF COVER & FRAME

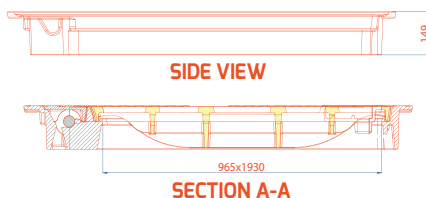
DUCTILE IRON SOLID TOP SPRING ASSISTED TYPE COVER & FRAME

CLEAR OPENING AXB (MM)	OVER BASE CXD (MM)	DEPTH E (MM)	NO.OF COVERS	LOADING CLASS
600 x 600	840 x 755	126	1	F900
800 x 800	970 x 1140	149	1	F900
965 x 965	1180 x 1345	149	1	F900
1571 x 680	1710 x 1020	149	2	F900
3000 x 900	3120 x 1230	149	3	F900

SPRING ASSISTED EASY LIFT GRATING

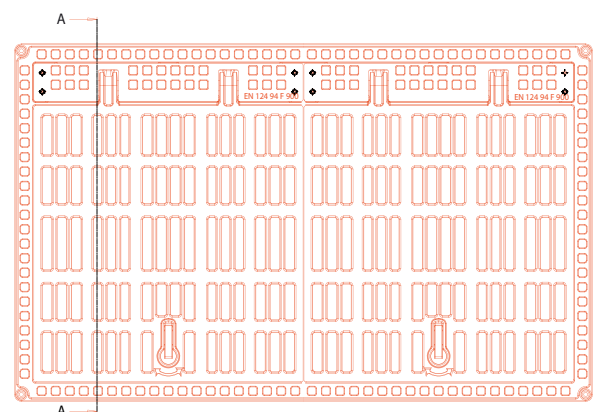
FEATURES

- Manufactured to BSEN 124
- Badging Optional
- Paint as per customer's requirement
- ☑ - Denotes that the product is kitemarked
- Easy access



SIDE VIEW

SECTION A-A

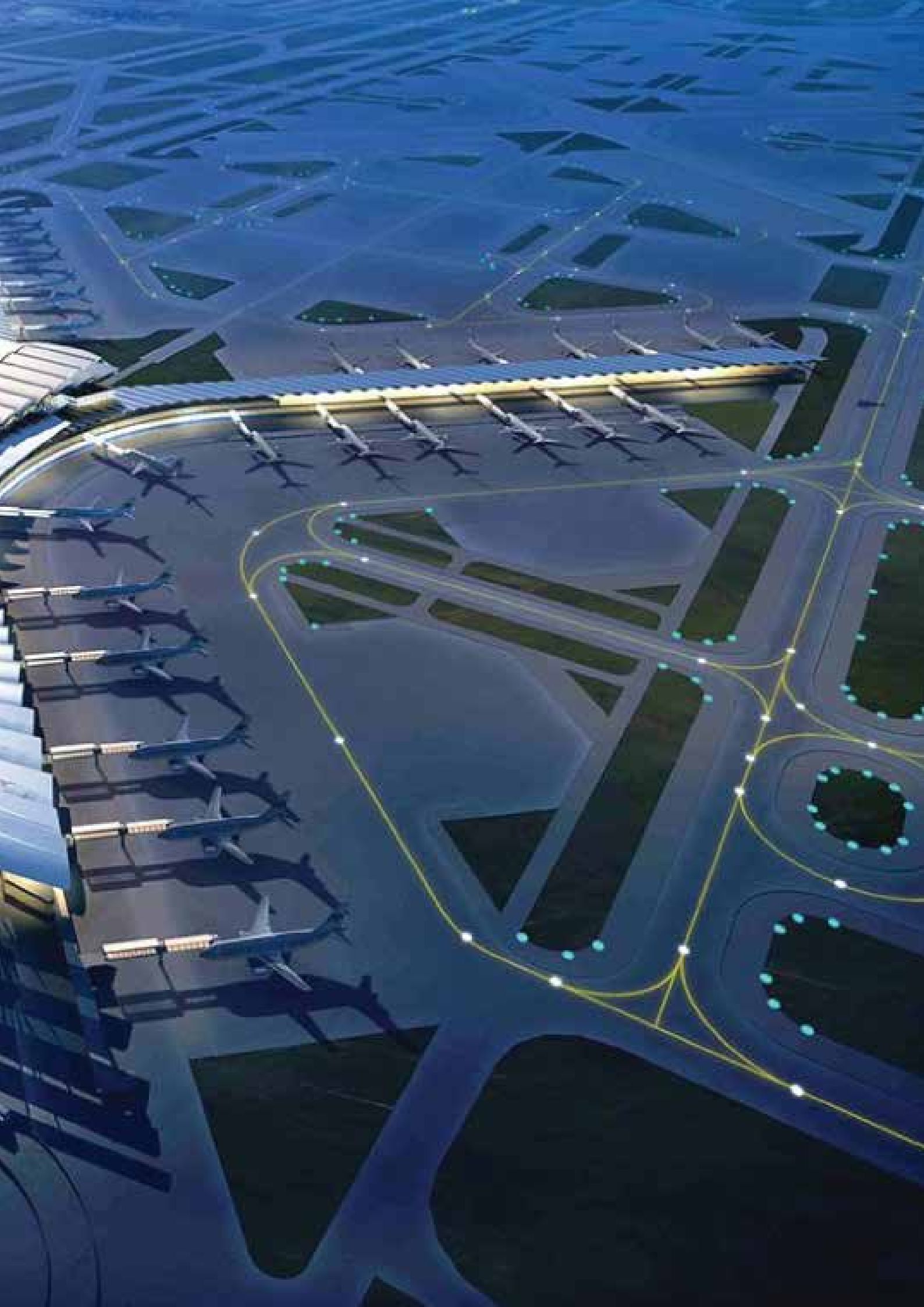


PLAN OF GRATING & FRAME

DUCTILE IRON SPRING ASSISTED TYPE GRATING & FRAME

CLEAR OPENING AXB (MM)	OVER BASE CXD (MM)	DEPTH E (MM)	NO.OF COVERS	LOADING CLASS
965 X 965	1180 X 1345	149	1	F900
965 X 1930	2215 X 1345	149	2	F900





TELECOM CASTINGS

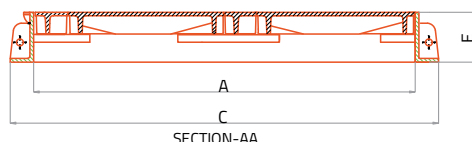


- Telecommunication Cover & Frame
- Telecommunication Recess Cover & Frame

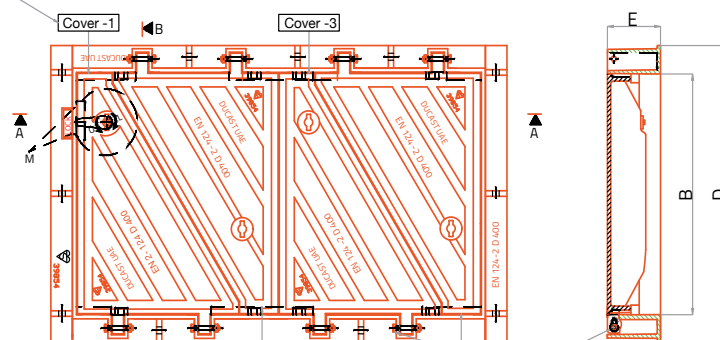
TELECOMMUNICATION COVER & FRAME

FEATURES

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



Covers to be open in SI. No (1,2,3&4) wise and,
All covers are interlock with each other.

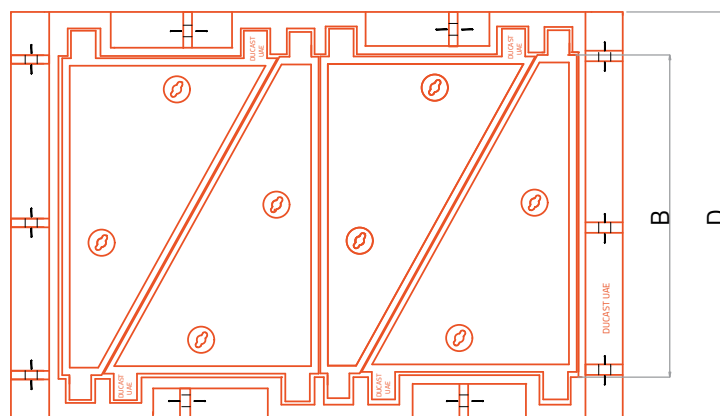
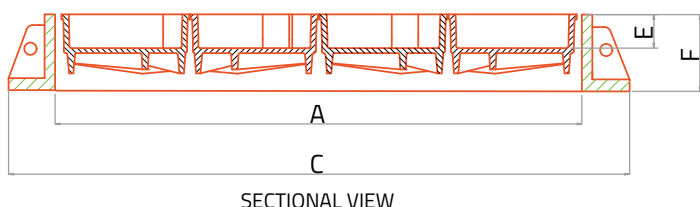


CODE	CLEAR OPENING A x B (mm)	OVER BASE C X D (mm)	FRAME DEPTH E (mm)	NO. OF TRIANGULAR COVERS	LOADING CLASS KN
CW - 1	590 x 590	745 x 745	160	2	400
CW - 2	1220 x 696	1374 x 850	160	4	400
CW - 3	1830 x 696	1984 x 850	160	6	400
CW - 4	920 x 465	1120 x 665	97	Single Pieces	400
DUCTILE IRON TELECOMMUNICATION HINGED TYPE COVER & FRAME					
CW-2H	1220 x 696	1374 x 850	160	4	400
CW-3H	1830 x 696	1984 x 850	160	6	400
CW-4H	452 x 912	645 x 1090	97	Single Pieces	400

TELECOMMUNICATION RECESSED COVER & FRAME

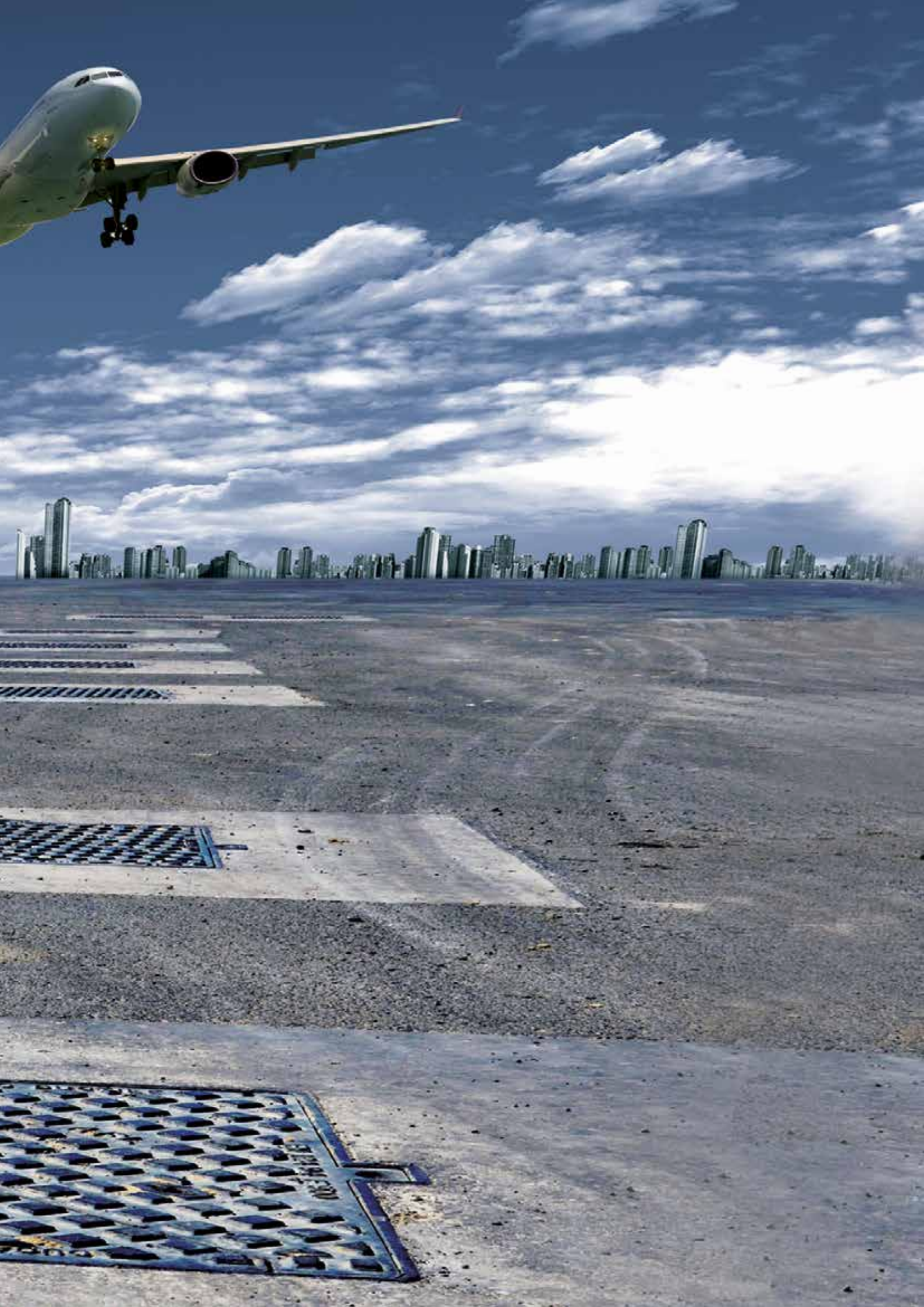
FEATURES

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



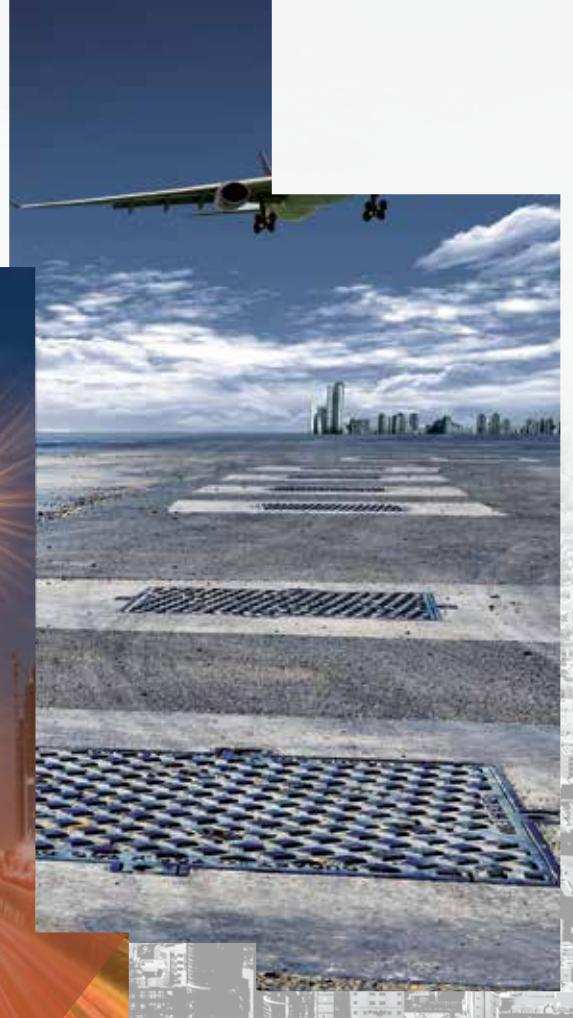
CODE	CLEAR OPENING A x B (mm)	OVER BASE C x D (mm)	FRAME DEPTH E (mm)	RECESSED DEPTH F (MM)	NO. OF TRIANGULAR COVERS	LOADING CLASS KN
CW-2RC80	1220 x 696	1374 x 850	160	80	4	400
CW-3RC80	1830 x 696	1984 x 850	160	80	6	400
CW-4RC10	920 x 465	1110 x 655	130	100	Single Piece	400





30

30th
Anniversary



توراني القابضة العربية المحدودة Taurani Holding Arabia LTD

Office No. 02, Saif Gallery Building,
Amir Saad Bin Abdul Rehman Road
Al Fayha Business Center, Riyadh, KSA,
P.O. Box No. 14253

+966 56 786 8360

info@ducast.com | www.ducast.com

@ducastfactory @ducast

