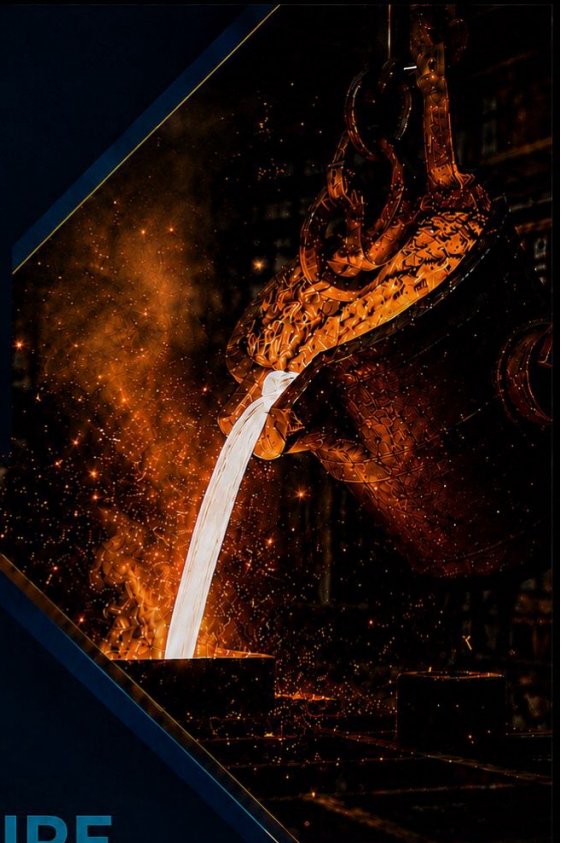




مسبك المتحدة
United Foundry



PRODUCT BROCHURE

MANHOLE COVERS, GRATES



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المملكة العربية السعودية، الرياض، طريق الملك عبدالعزيز



OUR VISION

To be the leading provider of innovative metal casting solutions in the Middle East, recognized for exceptional quality, engineering excellence, and sustainable manufacturing that supports infrastructure and industrial growth.

OUR MISSION

We manufacture premium cast iron and steel products using advanced technology, highly skilled professionals, and internationally recognized quality systems. Our mission is to exceed customer expectations through precision, reliability, continuous improvement, and outstanding service.



ISO 9001 : 2015





TECHNICAL SPECIFICATIONS

International Standards & Load Classifications

Our Covers, Frames & Drainage products are according to categories of ranging from light duty to extra heavy duty.

CLASS (Load Class)	STANDARD BS EN 124 : 1994 (British Standard)	STANDARD SASO SSA 413 : 1985 (Saudi Arabian Standard Org)	APPLICATION IN APPROPRIATE AREAS
 A15 Light Duty	15 Tons / 15 KN	15 Tons / 15 KN	 For Use in Pedestrian Area
 B125 Medium Duty	12.5 Tons / 125 KN	15 Tons / 150 KN	 For Use in Foot Ways, Pedestrian Areas and Car Parks
 C250 Medium To Heavy Duty	25 Tons / 250 KN	---	 For Use in Kerb Side Channels of Roads and Car Parks
 D400 Heavy Duty	40 Tons / 400 KN	40 Tons / 400 KN	 For Use in Carriage Ways, Hard Shoulders and Parking Areas
 E600 Special Duty	60 Tons / 600 KN	60 Tons / 600 KN	 For Use in High Wheel Loads Like Docks and Aircraft Pavement
 F900 Extra Heavy Duty	90 Tons / 900 KN	---	 For Use in Very High Wheel Loads Areas Aircraft Pavements



MATERIAL STANDARDS



GREY CAST IRON

ASTM A48 / A48M - 03

Equivalent to BS EN 1561 : 1997

Grades 25 - B, 30 - B, 35 - B

Equivalent to EN - GJL - 250,

EN - GJL - 300, EN - GJL - 350



DUCTILE IRON

ASTM A536 - 84

Equivalent to BS EN 1563 : 1997

Grades 60 - 40 - 18, 65 - 45 - 12,

80 - 55 - 06, 80 - 60 - 03

Equivalent to EN - GJS - 400 - 18,

EN - GJS - 400 - 15, EN - GJS - 450 - 10,

EN - GJS - 500 - 7, EN - GJS - 600 - 3



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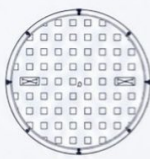
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CIRCULAR MANHOLE COVERS & FRAMES

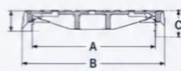
ORIGINAL



Model No.	Clear Opening A (mm)	Over Base B (mm)	Depth C (mm)	Loading (Tons)
UF 011 DI (LD)	450	530	30	1.5
UF 011 DI (MD)	450	530	30	12.5
UF 011 DI (HD)	450	530	90	40
UF 012 DI (LD)	600	700	35	1.5
UF 013 DI (MD)	600	700	75	12.5



PLAN



SECTION A-A

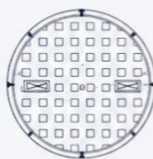
BS EN124

Ductile Iron

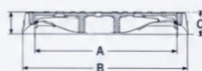
ORIGINAL



Model No.	Clear Opening A (mm)	Over Base B (mm)	Depth C (mm)	Loading (Tons)
UF 014 DI (LD)	600	730	100	1.5
UF 014 DI (MD)	600	730	100	12.5
UF 014 DI (HD)	600	730	100	40



PLAN



SECTION A-A

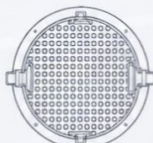
BS EN124

Ductile Iron

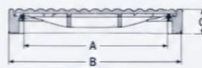
ORIGINAL



Model No.	Clear Opening (mm)	Over Base (mm)	Depth (mm)	Loading (Tons)
UF 017 DI H (HD)	600	810	150	40



PLAN



SECTION A-A

BS EN124

Ductile Iron

UF

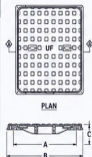
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Model No.	Clear Opening A(mm)	Over Base B(mm)	Loading (Tons)
UF 153 DI (HD)	300 sq	375 sq	40
UF 154 DI (HD)	450 sq	620 sq	75
UF 169 DI (HD)	600 sq	800 sq	75
UF 185 DI (HD)	800 sq	980 sq	75



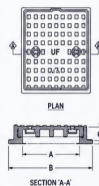
Specification: BS-EN 124
Material: Ductile Iron

BS EN124

Ductile Iron



Model No.	Clear Opening A(mm)	Over Base B(mm)	Loading (Tons)
UF 151 CI (LD)	200 sq	260 sq	50
UF 151 CI (MD)	200 sq	260 sq	50
UF 151 CI (HD)	200 sq	260 sq	40
UF 154 CI (LD)	400 sq	460 sq	50
UF 154 CI (MD)	400 sq	510 sq	50
UF 154 CI (HD)	400 sq	550 sq	75



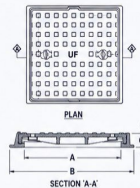
Specification: BS-EN 124
Material: Grey Cast Iron

BS EN124

Ductile Iron



Model No.	Clear Opening A(mm)	Over Base B(mm)	Depth C(mm)	Loading (Tons)
UF 172 CI (LD)	500 sq	650 sq	80	1.5
UF 172 CI (MD)	500 sq	650 sq	80	12.5
UF 172 CI (HD)	500 sq	650 sq	100	40
UF 175 CI (LD)	600 sq	750 sq	80	1.5
UF 175 CI (MD)	600 sq	750 sq	80	12.5
UF 175 CI (HD)	600 sq	750 sq	80	40



Specification: BS-EN 124
Material: Grey Cast Iron

BS EN124

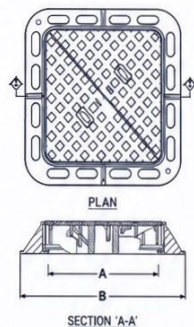
Ductile Iron

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CS CamScanner™



Specification: BS-EN 124
Material: Ductile Iron

Model No.	Clear Opening A(mm)	Over Base B(mm)	Depth C(mm)	Loading (Tons)
UF 154 DT DI (HD)	450 sq	600 sq	100	40
UF 175 DT DI (HD)	600 sq	722 sq	100	40
UF 195 DT DI (HD)	900 sq	1020 sq	100	40

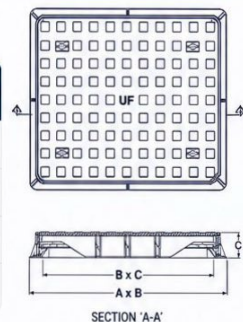


RECTANGULAR COVERS AND FRAMES



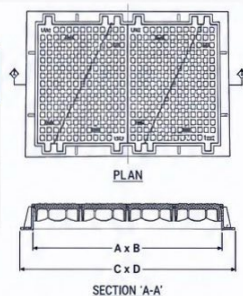
Specification: BS-EN 124
Material: Ductile Iron

Model No.	Clear Opening AxB(mm)	Over Base Cx D(mm)	Depth E(mm)	Loading (Tons)
UF 253 DI (MD)	750 x 600	865 x 715	40	12.5
UF 253 DI (HD)	750 x 600	865 x 715	100	40
UF 258 DI (MD)	900 x 600	1100 x 830	100	12.5
UF 258 DI (HD)	900 x 600	1100 x 830	100	40



Specification: BS-EN 124
Material: Grey Cast Iron

Model No.	Clear Opening AxB(mm)	Over Base Cx D(mm)	Depth E(mm)	Loading (Tons)
UF 265 DT CI (HD)	1200 x 600	1500 x 900	180	40
UF 266 DT CI (HD)	1200 x 675	1500 x 975	150	40

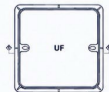


CIRCULAR MANHOLE COVERS & FRAMES

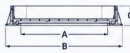


Model No.	Clear Opening A(mm)	Over Base B(mm)	Depth C(mm)	Loading (Tons)
UF 286 RC DI (MD)	450 sq	600 sq	100	12.5
UF 286 RC DI (HD)	450 sq	600 sq	100	40
UF 288 RC DI (MD)	600 sq	740 sq	100	12.5
UF 288 RC DI (HD)	600 sq	740 sq	100	40

Specification: BS-EN 124
Material: Ductile Iron



PLAN



SECTION 'A-A'

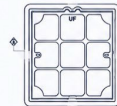
BS EN124

Ductile Iron



Model No.	Clear Opening A(mm)	Over Base B(mm)	Depth C(mm)	Loading (Tons)
UF 287 RC CI (MD)	500 sq	700 sq	75	12.5
UF 287 RC CI (HD)	500 sq	700 sq	75	40

Specification: BS-EN 124
Material: Grey Cast Iron



PLAN



SECTION 'A-A'

BS EN124

Ductile Iron

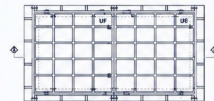


Specification: BS-EN 124
Material: Ductile Iron

Model No.	Clear Opening A(mm)	Over Base B(mm)	Depth C(mm)	Loading (Tons)
UF 290 RC DI (MD)	750x1200	1020x1470	100	12.5
UF 290 RC DI (HD)	750x1200	1020x1470	100	40
UF 292 RC DI (MD)	750x1750	950x1950	100	12.5
UF 292 RC DI (HD)	750x1750	950x1950	100	40

BS EN124

Ductile Iron



PLAN



SECTION 'A-A'

UF

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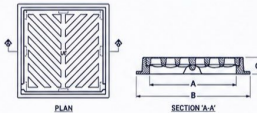
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GULLY GRATES



Model No.	Clear Opening A(mm)	Over Base B(mm)	Depth C(mm)	Loading (Tons)
UF 328 DI (LD)	600 sq	710 sq	50	1.5
UF 328 DI (MD)	600 sq	710 sq	100	12.5
UF 328 DI (HD)	600 sq	710 sq	150	25
UF 330 DI (HD)	600 sq	760 sq	100	40

Specification: BS-EN 124
Material: Ductile Iron



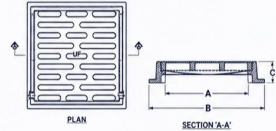
BS EN124

Ductile Iron



Model No.	Clear Opening A(mm)	Over Base B(mm)	Depth C(mm)	Loading (Tons)
UF 331 CI (HD)	600x600	750 sq	150	40

Specification: BS-EN 124
Material: Grey Cast Iron



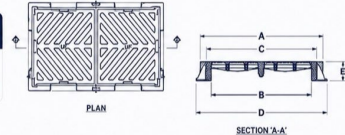
BS EN124

Grey Cast Iron



Model No.	Clear Opening AxB(mm)	Over Base CxD(mm)	Depth E(mm)	Loading (Tons)
UF 345 DI (HD)	1000x600	1200x800	200	40

Specification: BS-EN 124
Material: Ductile Iron



BS EN124

Ductile Iron

UF

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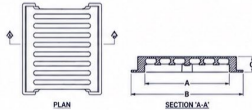
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GULLY GRATES



Model No.	Clear Opening A(mm)	Over Base B(mm)	Depth C(mm)	Loading (Tons)
UF 449 DI (LD)	200	320	60	1
UF 449 DI (MD)	200	320	60	12.5
UF 449 DI (HD)	200	320	60	40
UF 450 DI (LD)	250	370	60	1
UF 450 DI (MD)	250	370	60	12.5
UF 450 DI (HD)	250	370	60	40

Specification: BS-EN 124
Material: Ductile Iron



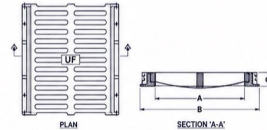
BS EN124

Ductile Iron



Model No.	Clear Opening A(mm)	Over Base B(mm)	Depth C(mm)	Loading (Tons)
UF 453 DI (HD)	400	570x750	75	40

Specification: BS-EN 124
Material: Ductile Iron



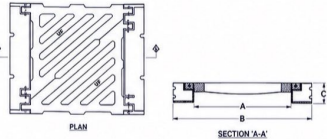
BS EN124

Ductile Iron



Model No.	Clear Opening A(mm)	Over Base B(mm)	Depth C(mm)	Loading (Tons)
UF 461 DI DT (HD)	600	860	130	40

Specification: BS-EN 124
Material: Ductile Iron



BS EN124

Ductile Iron

UF

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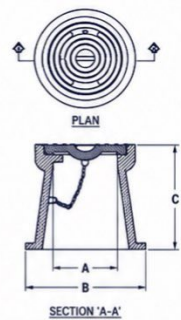


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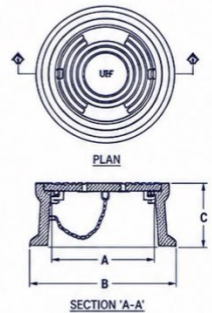
Model No.	Clear Opening A(mm)	Over Base B(mm)	Depth C(mm)	Loading (Tons)
UF 700 CI (HD)	120 Ø	200 Ø	300	HD BS 5834



Specification: BS-EN 124
Material: Grey Cast Iron



Model No.	Clear Opening A(mm)	Over Base B(mm)	Depth C(mm)	Loading (Tons)
UF 708 CI (HD)	280 Ø	370 Ø	140	HD BS 5834
UF 709 CI (HD)	350 Ø	420 Ø	140	HD BS 5834

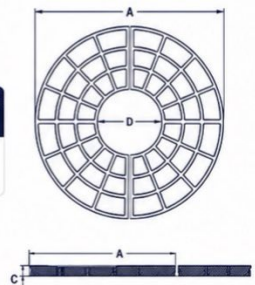


Specification: BS-EN 124
Material: Grey Cast Iron

TREE GRATES



Model No.	Clear Opening A(mm) x 2	Over Base B(mm)	Depth C(mm)	Tree Opening D(mm)
UF TG 510 DI (HD)	1500	1500	40	500



Specification: BS-EN 124
Material: Ductile Iron



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STRENGTH IN EVERY PRODUCT**

Delivering high quality grey cast iron solutions for water systems, infrastructure and industrial applications.



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