

IRONFORCE

Cast & Ductile Manhole Covers

BE SURE YOU PUT YOUR FEET IN THE RIGHT PLACE
THEN STAND FIRM



مجموعة الخليلي
Al Khalili Group



“ABOUT US

Established in 1976, the Al Khalili Group is a diversified and dynamic business house with a strong corporate philosophy and a track-record of good governance. Al Khalili group has business verticals covering Building material supply, Tools & Hardware, Construction, Electrical & Lighting, Oil & Gas, Fire & Safety, Solid surfaces, Information communication Technology (ICT), Real Estate, Automation Systems & Electrical Installations, Logistics services & Auto Services.

Over the past decade the group has grown into a successful multimillion-dollar entity through its ability to adapt to the changing needs in the market and acquiring exclusive international brands. Looking ahead, the group has positioned itself for a strong future through geographical diversification with presences in the UAE, Qatar and other GCC countries and further afield.

Recognising the shift from global economic climates to evolving trends in the local community, the Al Khalili Group embraces the changes and has geared its core business philosophy of client success to offer seamless support and comprehensive product options.

The Al Khalili Group aims to deliver maximum value and make tangible differences to the success of clients, communities and Oman's economy through leveraging its cumulative strength of products and services and influence within the business diaspora.

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A Manhole Cover or Maintenance hole cover is a removable plate forming the lid over the opening of a manhole, an opening large enough for a person to pass through that is used as an access point for an underground vault or pipe. It is designed to prevent anyone or anything from falling in, and to keep out unauthorized persons and material.

Manhole covers are often made out of cast iron, concrete or a combination of the two in square, circular or rectangular shapes.

The European norm EN 124 of 1994 applies to manhole and gully tops with a clear opening up to 1 m for areas subjected to pedestrian or vehicular traffic.

PRODUCT CATEGORIES

- ◆ Carriage way/telecom cover frame
- ◆ Double triangular cover frame
- ◆ Square cover frame
- ◆ Rectangular cover frame
- ◆ Circular cover frame
- ◆ Circular cover square frame
- ◆ Recessed cover frame
- ◆ Trench grating
- ◆ Tree grating & surface box
- ◆ Kerb gully & catch basin cover frame
- ◆ Gully grate & frames
- ◆ Step iron & lifting key

DUCTILE IRON

- ◆ Cast Iron Manhole Cover
- ◆ FRP / GRP Manhole Cover

PRODUCTS AT A GLANCE

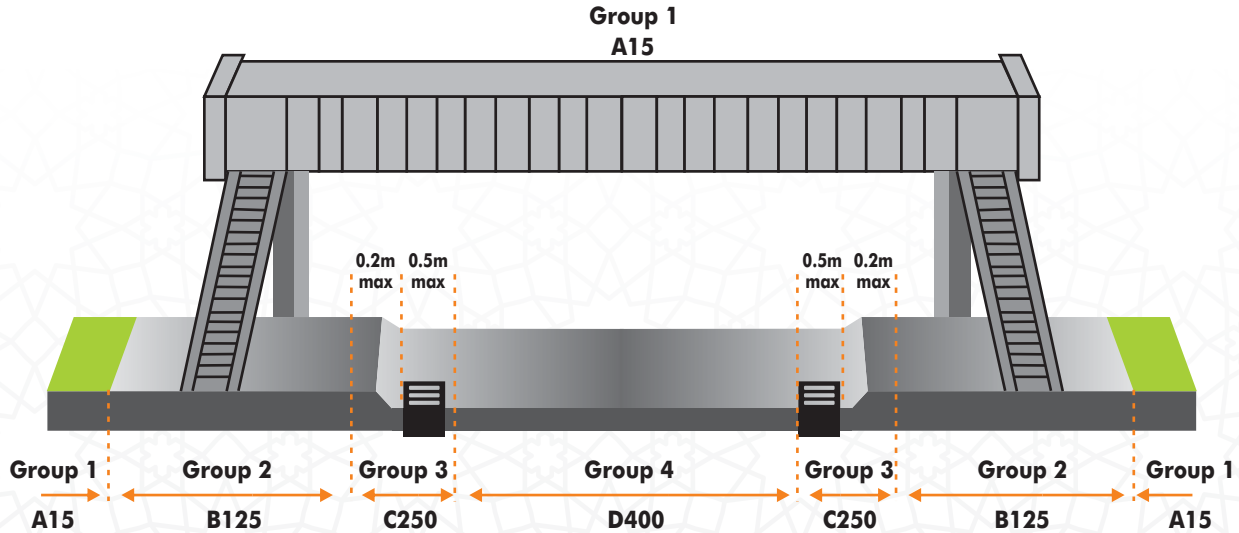


Load Classification and Product Markings in EN124

EN 124 divides Manhole Cover and Drainage Grating into 6 classes as follows: A15, B125, C250, D400, E600 and F900.

The classification denotes the test load expressed in KN.

Please note En124 is the minimum performance specification, of there is any doubt a higher category cover and frame should be selected. Contact our Sales Team on 057 91 23100 for assistance on product selection.



GROUP 1
MINIMUM
CLASS A15

Areas which can only be used by pedestrian and pedal cyclists.

GROUP 2
MINIMUM
CLASS B125

Footways, pedestrian and comparable areas, car parks or car parking decks.

GROUP 3
MINIMUM
CLASS C250

For gully tops installed in the area of kerbside channels of roads which when measured from the kerb edge, extend a maximum of 0.5m into the carriageway and maximum of 0.2m into the footway.

GROUP 4
MINIMUM
CLASS D400

carriageway of roads (including pe-destrian streets), hard shoulders and parking areas, for all types of road vehicles.

GROUP 5
MINIMUM
CLASS E600

Areas imposing high wheel loads, e.g. docks, aircraft pavements.

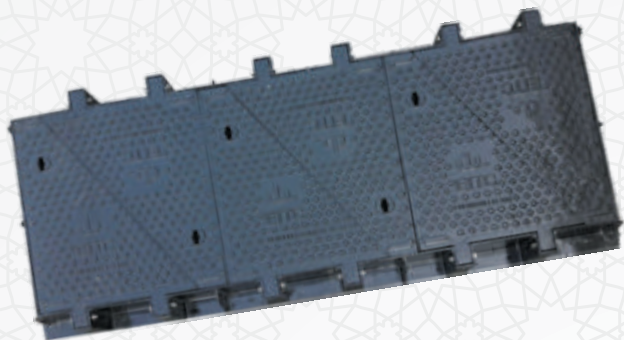
GROUP 5
CLASS F900

Areas imposing particularly high wheel loads, e.g. aircraft pavements.

PRODUCT ENQUIRY CHECKLIST

- Clear Opening Size but not the size cover over the top of the existing frame or the frame size as they differ.
- Area of usage.
- Location as in whether fast moving traffic or slow moving.
- Sealing provision whether single, double ,grp seal provision , gas & air tight.
- Service marking requirement such as size, logo.
- Painting coat such as black bitumen , powder coat , Micron epoxy with/without PU Top coat.
- Kite marking & Inspection.

CARRIAGE WAY / TELECOM COVER FRAME



SOLID TOP CARRIAGE WAY / TELECOM COVER & FRAME

DRWG. CODE	Clear Opening AxB (MM)	Over Base CxD (MM)	Total Depth H (MM)	BS EN 124 CLASS	Kite Mark
CW2-D15	1220 x 700	1375 x 850	150	D400	
CW2-DH16	1220 x 696	1374 x 850	160	D400	
CW2(QNBN)	1220 x 696	1375 x 850	160	D400	♥
CW3(QNBN)	1830 x 696	1984 x 850	160	D400	♥
CW4(QNBN)	995 x 540	1115 x 660	96	D400	♥
CW4-10	890 x 445	1100 x 650	100	B125	

SOLID TOP CARRIAGE WAY / TELECOM COVER & FRAME (SPECIAL RANGE)

DRWG. CODE	Clear Opening AxB (MM)	Over Base CxD (MM)	Total Depth H (MM)	BS EN 124 CLASS	Kite Mark
GHO-T9**	915 x 445	1075 x 605	100	D400	
GHO-T13**	1310 x 610	1450 x 750	100	D400	
GTK-1145*	1100 x 450	1335 x 635	90	A15	

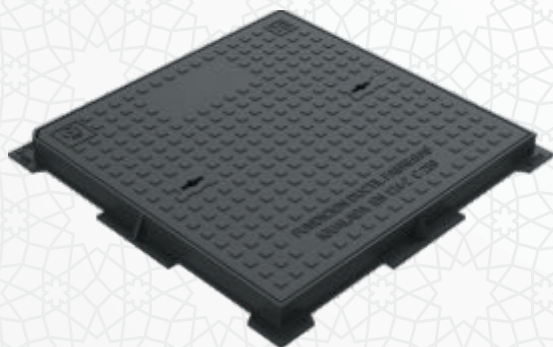
DOUBLE TRIANGULAR COVER FRAME

SOLID TOP DOUBLE TRIANGULAR COVER CIRCULAR OPENING SQUARE FRAME

DRWG. CODE	Clear Opening AØ (MM)	Over Base BxB (MM)	Total Depth H (MM)	BS EN 124 CLASS	Kite Mark
67-DIA-DTB*	675 DIA	810 x 810	70	D125	♥
67-DIA-DTD	675 DIA	820 x 820	100	D400	
75-DIA-DTD*	675 DIA	910 x 910	100	D400	♥



SQUARE COVER



SOLID TOP SQUARE COVER

DRWG. CODE	Clear Opening AxA (MM)	Over Base BxB (MM)	Total Depth H (MM)	BS EN 124 CLASS	Seal	Kite Mark
30-STB-SS	300 x 300	380 x 380	20	B125	SINGLE	
30-STD-SS	300 x 300	400 x 400	75	D400	SINGLE	
30-STB-DS	300 x 300	385 x 385	30	B125	DOUBLE	
30-STD-DS	300 x 300	475 x 475	75	D400	DOUBLE	
30-STD-DS *	300 x 300	490 x 490	75	D400	DOUBLE	
30-STB	300 x 300	412 x 412	20	B125	DOUBLE	
30-STD	300 x 300	440 x 440	75	D400	DOUBLE	
45-STD-SS	450 x 450	580 x 580	75	D400	SINGLE	
45-STB-DS	450 x 450	605 x 605	40	B125	DOUBLE	
45-STD-DS	450 x 450	620 x 620	75	D400	DOUBLE	
45-STD-DS *	450 x 450	640 x 640	75	D400	DOUBLE	
60-STA-SS	600 x 600	687 x 687	30	A15	SINGLE	♥
60-STB-SS	600 x 600	710 x 710	75	B125	SINGLE	
60-STD-SS	600 x 600	740 x 740	100	D400	SINGLE	
60-STB-DS	600 x 600	770 x 770	45	B125	DOUBLE	
60-STC-DS	600 x 600	750 x 750	55	C250	DOUBLE	
60-STD-DS	600 x 600	800 x 800	75	D400	DOUBLE	
60-STD-DS *	600 x 600	790 x 790	75	D400	DOUBLE	
G1021	600 x 600	700 x 700	30	B125	DOUBLE	
G1022	600 x 600	740 x 740	75	D400	DOUBLE	

RECTANGULAR COVER FRAME

SOLID TOP RECTANGULAR COVER & FRAME

DRWG. CODE	Clear Opening AxA (MM)	Over Base BxB (MM)	Total Depth H (MM)	BS EN 124 CLASS	Seal	Kite Mark
4560-STD-DS	450 x 600	615 x 765	75	D400	DOUBLE	
6075-STB-DS	600 x 750	700 x 850	75	B125	DOUBLE	
6075-STD-DS	600 x 750	750 x 900	100	D400	DOUBLE	♥
8060-STC-DS	800 x 600	924 x 724	100	C250	DOUBLE	
7090-STD-DS	700 x 900	870 x 1070	100	D400	DOUBLE	



CIRCULAR COVER



SOLID TOP CIRCULAR COVER CIRCULAR FRAME

DRWG. CODE	Clear Opening AO (MM)	Over Base BO (MM)	Total Depth H (MM)	BS EN 124 CLASS	Seal	Kite Mark
25G-DIA-STB *	250 DIA	400 DIA	100	D400	SINGLE	
60G-DIA-STB *	600 DIA	750 DIA	50	B125	SINGLE	
60G-DIA-STD *	600 DIA	790 DIA	75	D400	SINGLE	
60-DIA-STD	600 DIA	790 DIA	100	D400	SINGLE	
67-DIA-STD	675 DIA	850 DIA	100	D400	SINGLE	
90G-DIA-STB *	900 DIA	1050 DIA	50	B125	SINGLE	
90G-DIA-STD *	900 DIA	1066 DIA	75	D400	SINGLE	

* GRP Seal Provision

SOLID TOP CIRCULAR COVER CIRCULAR FRAME (SPECIAL RANGE)

DRWG. CODE	Clear Opening AO (MM)	Over Base BO (MM)	Total Depth H (MM)	BS EN 124 CLASS	Seal	Kite Mark
GDO-HS40B **	400 DIA	490 DIA	50	B125	SINGLE	
GDO-HS60B **	600 DIA	760 DIA	100	B125	SINGLE	
GDO-HS60D **	600 DIA	810 DIA	100	D400	SINGLE	

ROUND COVER SQUARE FRAME

SOLID TOP CIRCULAR COVER SQUARE FRAME

DRWG. CODE	Clear Opening AO (MM)	Over Base BxB (MM)	Total Depth H (MM)	BS EN 124 CLASS	Kite Mark
15-DIA-STD *	150 DIA	765 x 765	75	D400	
30-DIA-STD *	300 DIA	820 x 820	75	D400	
60-DIA-STD *	600 DIA	765 x 765	50	B125	
60-DIA-STD *	600 DIA	820 x 820	50	C250	
GMK-600D *	600 DIA	800 x 800	100	D400	
60-DIA-STD *	600 DIA	765 x 765	100	D400	♥
675-DIA-STD *	675 DIA	820 x 820	100	D400	♥



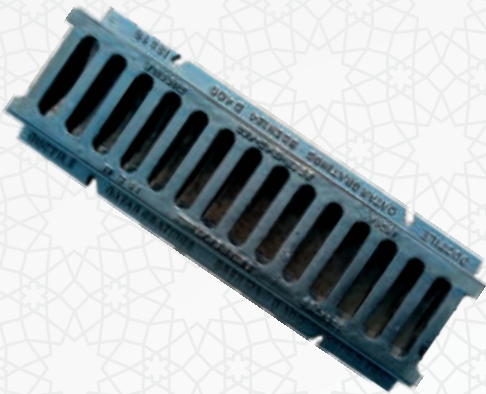
DUCTILE IRON RECESSED COVER & FRAME

RECESSED COVER FRAME



DRWG. CODE	Clear Opening AxA (MM)	Over Base BxB (MM)	Total Depth H (MM)	Recessed Depth C (MM)	BS EN 124 CLASS	Seal
30-RECG-B-DS *	300 x 300	430 x 430	100	75	B125	DOUBLE
30-REC-C-DS	300 x 300	450 x 450	100	80	C250	DOUBLE
45-REC-B-DS	450 x 450	605 x 605	90	70	B125	DOUBLE
45-REC-B-DS	450 x 450	605 x 605	90	70	C250	DOUBLE
45-REC-B-DS	450 x 450	610 x 610	100	80	D400	DOUBLE
60-REC-B-DS	600 x 600	760 x 760	90	70	B125	DOUBLE
60-REC-C-DS	600 x 600	760 x 760	90	70	C250	DOUBLE
60-REC-D-DS	600 x 600	760 x 760	90	70	D400	DOUBLE
60-RECG-B-DS *	600 x 600	730 x 730	100	75	B125	DOUBLE
60-RECG-C-DS *	600 x 600	730 x 730	100	75	C250	DOUBLE
60-RECG-D-DS *	600 x 600	730 x 730	100	75	D400	DOUBLE
67-REC-B-DS	675 x 675	810 x 810	100	80	B125	DOUBLE
67-REC-D-DS	675 x 675	810 x 810	100	80	D400	DOUBLE
7560-REC-B	750 x 750	890 x 740	100	80	B125	
75-REC-B	750 x 750	890 x 890	100	80	B125	
75-REC-D	750 x 750	890 x 890	100	80	D400	DOUBLE
8060-RECG-C-DS	800 x 600	930 x 730	100	70	C250	DOUBLE
8080-RECG-D-DS *	800 x 800	930 x 930	100	75	D400	DOUBLE
9090-RECC-DS	900 x 600	1060 x 760	100	70	C250	DOUBLE
1010-RECD-DS	1000 x 100	1160 x 1160	100	70	D400	DOUBLE

TRENCH GRATING FRAME



TRENCH GRATING WITH BEARER BARS

DRWG. CODE	Length A (MM)	Width B (MM)	Clear Opening C (MM)	Side Rail Depth H (MM)	BS EN 124 CLASS
2075-CGD	750	200	150	60	D400
7520-CGD	750	200	150	40	D400
2575-CGD	750	250	200	60	D400
7525-CGD	750	250	200	40	D400
7530-CGD	750	300	250	40	D400
3075-CGD	750	300	250	60	D400
3075-CGDE	750	300	250	60	E600
3075-CGDF	750	300	250	100	F900
3575-CGD	750	350	300	60	D400
7535-CGD	750	350	300	40	D400
4075-CGD	750	400	350	50	D400
7540-CGD	750	400	350	40	D400
4575-CGD	750	450	400	60	D400
7545-CGD	750	450	400	40	D400
6075-CGD	750	600	550	60	D400
6575-CGD	750	650	600	60	D400

KERB GULLY GRATE



SOLID TOP KERB GULLY GRATE

DRWG. CODE	Clear Opening AxB (MM)	Over Base CxD (MM)	Total Depth H (MM)	BS EN 124 CLASS	Kite Mark
53240 A	532 x 405	562 x 465	205	D400	☑

TREE GRATINGS



TREE GRATES

DRWG. CODE	Grate DIA AO (MM)	Frame BxB (MM)
TG-1000	500 / 600	1000 x 1000
TG-1200	500 / 600	1200 x 1200
TG-1500	500 / 600	1500 x 1500

TRIANGULAR GULLY GRATE

DOUBLE TRIANGULAR GULLY GRATE

DRWG. CODE	Clear Opening AxB (MM)	Over Base BxB (MM)	Total Depth H (MM)	BS EN 124 CLASS	Kite Mark
30-DTG-D	300 x300		100		
45-DTG-D	450 x450	578 x 578	100	D400	
60-DTG-D	600 x600	728 x 728	100	D400	
635-DTG-D	635 x635	800 x 800	100	D400	



LIFTING KEY



STEP IRON



STEP IRON

DRWG. CODE	Length A (MM)	Width B (MM)	Tread Length C (MM)
GDS-175	175	145	125
GDS-185	185	145	125
GDS-250	250	145	125
GDS-370	370	145	125

Certificates



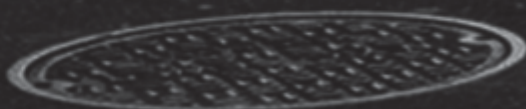


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