



COVERS AND FRAMES RANGE

APPLICATION: Covers finish the top of the STAKKAbox™. They either fit directly to the STAKKAbox™ or are bedded onto a layer of mortar and they finish either flush with the surface of the street or are buried. They are available in four materials – Ductile Iron, Composite, Concrete in-filled Steel or Steel. In some instances we can also provide recessed covers for filling with block paving. All our covers are certified to European Standard EN124.

Due to the nature of the STAKKAbox™ system it is possible to obtain a great many size variations this is also true for Covers & Frames, however there are limitations depending upon the chosen material and loading class.

To assist you in selecting the appropriate covers for your STAKKAbox™ please follow these 4 simple steps:

1. Choose the EN124 Classification you require from the table and diagram on page two.
2. Now choose the size of cover of the appropriate Class from the table on page three.
3. Then decide upon the material you require from the last column of the table on page three.
4. Finally refer to the appropriate section on pages four to six for more detail.

Alternatively if you already know what you are looking for please refer to pages four to six which detail our standard range of classes, materials and sizes. If the cover you require does not appear it is likely that this size is not readily available as standard. However please contact us with your requirements and we would be pleased to discuss alternative or new production with you.

For your information covers made from Steel or Concrete in-filled steel are easier to produce to new requirements (3 to 4 weeks to first delivery). Ductile Iron and Composite covers will require new patterns or moulds, which would need to be justified by quantity or price. Delivery would then typically be 12 to 14 weeks for the first batch.



EN 124 CLASSIFICATION

Manhole covers and gully grates installed in Europe should meet the requirements of the European Standard EN124. This applies to all situations, road and off-road and all materials. Products designed to EN124 are grouped and classified depending on their place of installation.

It is the responsibility of the engineer to ensure that the correct product is specified:

“The appropriate class of manhole top or gully top to be used depends upon the place of installation. The selection of the appropriate class is the responsibility of the designer. Where there is any doubt the stronger class should be selected.”

Clause 5 EN124

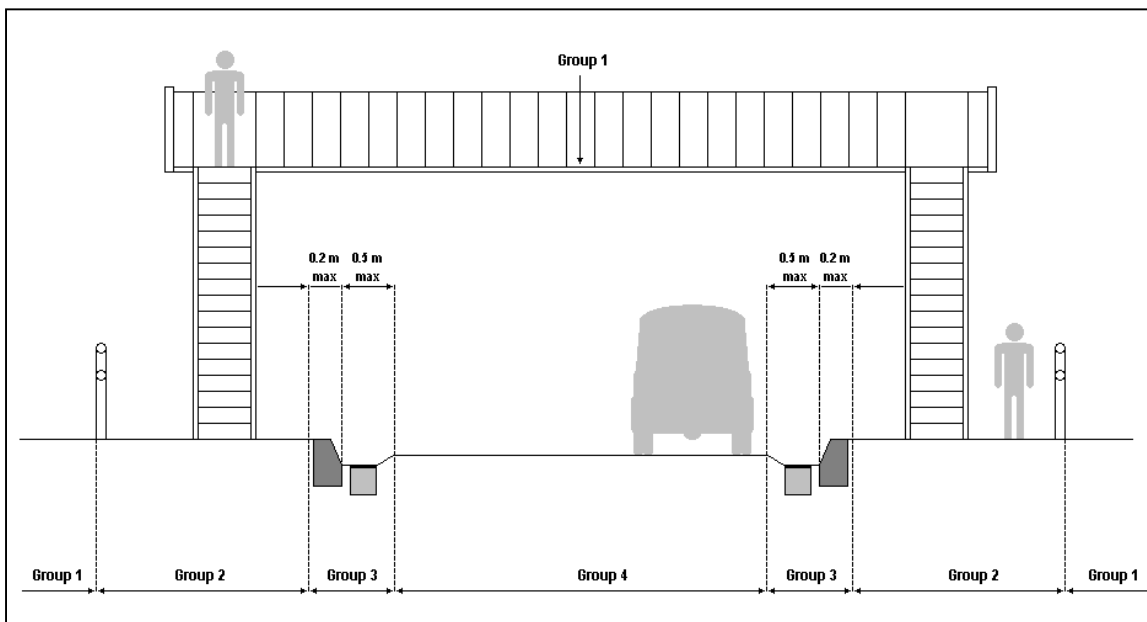


Fig No.2 – EN124 Applications

GROUP	LOADING DESCRIPTION	EN 124 CLASS	EN 124 TEST LOAD
1	Areas inaccessible to motor vehicles	A15	15kN
2	Footways, pedestrian areas etc.	B125	125kN
3	Gully tops in kerbside channels of roads	C250	250kN
4	Carriageways of roads (Heavy Duty)	D400	400kN
5	Areas imposing high wheel loads (Docks etc.)	E600	600kN
6	Areas imposing particularly high wheel loads (Airports etc.)	F900	900kN





COVER & FRAME SIZE RANGE SUMMARY

CLEAR OPENING		COVER CLASS & MATERIAL (*)
LENGTH	WIDTH	
300mm	300mm	D400 (D) & B125 (CI,C)
380mm	230mm	D400 (D)
420mm	240mm	B125 (D)
450mm	300mm	B125 (CI,C)
450mm	450mm	D400 (D) & B125 (CI,C)
530mm	205mm	B125 (CI,D)
530mm	380mm	D400 (D), C250 (D) & B125 (C,D)
600mm	450mm	D400 (D) & B125 (CI,C,D,S)
600mm	600mm	D400 (D) & B125 (CI,C,D)
610mm	610mm	D400 (D)
750mm	600mm	D400 (D), & B125 (CI,D)
750mm	750mm	D400 (D) & B125 (D)
800mm	400mm	D400 (SB)
900mm	450mm	B125 (CI,C)
900mm	600mm	D400 (D) & B125 (CI)
900mm	900mm	D400 (D), B125 (S)
915mm	445mm	B125 (CI,D)
1050mm	450mm	B125 (C)
1000mm	675mm	B125 (D)
1050mm	600mm	B125 (S)
1050mm	1050mm	B125 (S)
1150mm	400mm	D400 (SB)
1160mm	380mm	D400 (D), C250 (D) & B125 (C,D)
1200mm	600mm	D400 (D)
1200mm	1200mm	B125 (S)
1220mm	680mm	D400 (D)
1300mm	850mm	D400 (D)
1310mm	610mm	D400 (D) & B125 (CI,C,D)
1380mm	530mm	D400 (D), C250 (D) & B125 (C,D)
1500mm	750mm	D400 (D) & B125 (CI,D)

*COVER MATERIAL: CI = Concrete Infill C = Composite D = Ductile Iron Grade 500/7 S = Steel SB = Steel Block Infill

KITEMARK



BSI's famous Kitemark is a UK product mark, which is known and trusted by many companies in the UK in addition to many, many more in countries around the world.

The Kitemark indicates to the consumer that BSI regularly tests the product against the requirements of BSEN124 standard and that the manufacturer's quality system is assessed, at least twice a year, to ensure continued quality production.

Where C4 Covers exist that have been certified by BSI and therefore hold the Kitemark; a Kitemark symbol like the one above can be seen next to them.





PRODUCT DATA SHEET

EVERYTHING YOU NEED

002

STANDARD COVER RANGE BY EN124 CLASS

D400

DUCTILE IRON



These covers are made from high quality 500/7 Grade Ductile iron. Each triangular leaf is hinged to one side for simple 1 man entry. They can be raised to 110 degrees where they lock into place and are secure from being accidentally knocked over. Locating lugs on the underside of the frame secure it to the top of the STAKKAbOX™

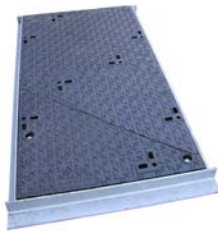
COVER STYLE	CLEAR OPENING		OVER FLANGE		DEPTH	UNIT** / LEAF* WEIGHT	FRAME TYPE	PART NO	
	LENGTH	WIDTH	LENGTH	WIDTH					
HINGED		450mm	450mm	595mm	570mm	100mm	72.5kg/ 21.5kg	DUCTILE WITH LOCATING LUGS	A600
		600mm	450mm	745mm	580mm	102mm	87kg/ 27.5kg		A601
		600mm	600mm	750mm	725mm	101mm	106kg/ 34.5kg		A602
		750mm	750mm	900mm	875mm	100mm	AUR***		A603
		900mm	600mm	1050mm	725mm	100mm	AUR***		AUR***
		900mm	450mm	1060mm	600mm	100mm	AUR***		A732
		1300mm	850mm	1430mm	990mm	100mm	AUR***		A605
		1310mm	610mm	1430mm	750mm	102mm	243.5kg/ 45kg		A604
	1500mm	750mm	1630mm	890mm	100mm	294.5kg/ 57.5kg	A606		

*LEAF WEIGHT IS THE WEIGHT OF AN INDIVIDUAL TRIANGLE THAT CAN BE LIFTED OUT

** UNIT WEIGHT IS THE TOTAL WEIGHT OF ALL THE LEAVES & THE FRAME

*** AVAILABLE UPON REQUEST

DUCTILE IRON



These covers are made from high quality 500/7 Grade Ductile iron.

They fit to our range of France Telecom approved STAKKAbOXES™

COVER STYLE	CLEAR OPENING		OVER FLANGE		DEPTH	COVER WEIGHT	FRAME TYPE	CODE
	LENGTH	WIDTH	LENGTH	WIDTH				
LIFT OUT	530mm	380mm	727mm	589mm	70mm	86Kg	STEEL FLAT	A608
	1160mm	380mm	1360mm	589mm	70mm	157Kg		A609
	1380mm	530mm	1581mm	727mm	70mm	219Kg		A610

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The home of the STAKKAbOX™



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DUCTILE IRON – HYDRANT / VALVE CHAMBER COVER



These covers are made from high quality 500/7 Grade Ductile iron.

The footprint of these units matches perfectly to our STAKKAbox™ ULTIMA Hydrant ring sections

COVER STYLE		CLEAR OPENING		OVER FLANGE		DEPTH	UNIT WEIGHT	FRAME TYPE	PART NO
		LENGTH	WIDTH	LENGTH	WIDTH				
LIFT OUT		380mm	230mm	530mm	380mm	101mm	34Kg	DUCTILE FLAT	A673

STEEL BLOCK FILLED



These covers are made from 6mm Steel, which is Hot Dip Galvanised to BS 1461.

They are designed to take Block Paving up to 80mm in depth.

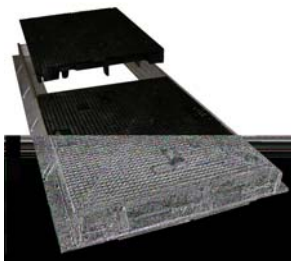
In addition they are lockable.

Fabricated to any size – all details available upon request.

ALSO AVAILABLE IN B125 & C250 LOADINGS

C250

DUCTILE IRON



These covers are made from high quality 500/7 Grade Ductile iron.

They fit to our range of France Telecom approved STAKKAboxes™

COVER STYLE	CLEAR OPENING		OVER FLANGE		DEPTH	COVER WEIGHT	FRAME TYPE	CODE
	LENGTH	WIDTH	LENGTH	WIDTH				
PLAIN	530mm	380mm	647mm	509mm	60mm	48Kg	STEEL FLAT	A615
	1160mm	380mm	1281mm	509mm	60mm	95Kg		A616
	1380mm	530mm	1501mm	647mm	60mm	134Kg		A617

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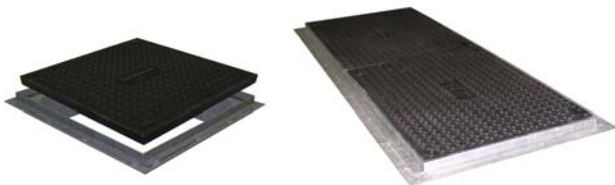
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002

B125

COMPOSITE



These covers are produced by C4 from lightweight yet very strong Glass re-enforced Polyester Resin. On the surface they have our unique tread pattern, which exceeds a Slip Resistance Value (SRV) of 80. Each cover weighs less than 20kgs so poses no problems for manual handling. An ideal cover to provide long life and low maintenance costs.

COVER STYLE	CLEAR OPENING		OVER FLANGE		DEPTH	COVER WEIGHT	FRAME TYPE	CODE
	LENGTH	WIDTH	LENGTH	WIDTH				
LIFT OUT	300mm	300mm	PLUS 20mm TO CLEAR OPENING LENGTH	PLUS 20mm TO CLEAR OPENING WIDTH	35mm	4kg	STEEL WITH LOCATING/ RAISING	B639
	420mm	240mm				7kg		A640
	450mm	300mm				7kg		B641
	450mm	450mm				9.5kg		B642
	530mm	380mm				14.5kg		A643
	600mm	450mm				14.5kg		B644
	600mm	600mm				19kg		B645
	800mm	400mm				2 x 9.5kg		A646
	900mm	450mm				2 x 9.5kg		B647
	900mm	600mm				2 x 14.5kg		B648
	915mm	445mm				2 x 9.5kg		A649
	1160mm	380mm				2 x 14.5kg		A650
	1200mm	450mm				2 x 14.5kg		A651
	1200mm	600mm				2 x 19kg		A652
	1310mm	610mm				3 x 14.5kg		A653
1380mm	530mm	3 x 14.5kg	A654					

AVAILABLE JULY 2006 – C250 COMPOSITE

CONCRETE INFILLED STEEL



This entire range has Kitemark

Produced from steel pans, with re-enforcement mesh then filled with concrete. As used by British Telecom.

The underside of each frame has a riser to secure it to the top of the STAKKAbOX™

COVER STYLE	CLEAR OPENING		OVER FLANGE		DEPTH	COVER WEIGHT	FRAME TYPE	CODE
	LENGTH	WIDTH	LENGTH	WIDTH				
SLIDE OUT	530mm	205mm	622mm	297mm	52mm (+ 40mm of raising frame which seats down inside the chamber)	25kg	STEEL WITH LOCATING/ RAISING	A655
	600mm	450mm	692mm	542mm		49kg		A656
	600mm	600mm	692mm	692mm		64kg		A657
	610mm	610mm	702mm	702mm		64.25kg		B658
	750mm	600mm	842mm	692mm		76kg		A659
	900mm	450mm	992mm	542mm		70kg		A660
	900mm	600mm	992mm	692mm		89kg		A661
	915mm	445mm	1007mm	537mm		70.3kg		A662
	977mm	915mm	1069mm	1007mm		2 x 71kg		A663
	1310mm	610mm	1402mm	702mm		2 x 65kg		A664
	1310mm	850mm	1402mm	942mm		3 x 58kg		A735
	1500mm	750mm	1592mm	842mm		2 x 88kg		A667

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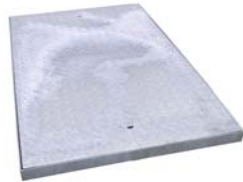


PRODUCT DATA SHEET

EVERYTHING YOU NEED



STEEL



Produced from tread plate covers are hot dip galvanised.
Complete with raising frame.

Fabricated to any size – all details available upon request.

SPECIALS



We are also able to produce for our customer specific requirements. Like the composite grid with galvanised steel frame shown on the left. Please contact our sales department who would be pleased to help.

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