

# KILLESHAL

TRUSTED SINCE 1969

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	Window Sills / String Courses		Compact Channels
	Lintels / Concrete Beams / Padstones		Multi V System Line Drainage
	Sill Supports / Wall Ties / Masonry Supports		Pre-Fabricated Drainage Systems
	Wall & Pier Coping / Chimney Systems		Channels & Gratings
	Marker Posts / Slabs & Marker Plates		Grass & Gravel Reinforcement
	Junction Boxes / Risers		Bicycle Stands
	Irish Water Boxes / Risers		Stainless Steel Bollards & Barriers
	Duct Covers / Duct Channels & Lids /		Exposed & Plain Concrete Planters /
	Lego Blocks / Heat Pump Bases		Bollards / Seats / Benches
	Gullies / Ductile Covers & Frames /		Street Furniture
	Concrete Barrier		Stonewrap Cladding
	Dura Drain		Paving / Tactile Flags / Studs / Bars
	Bus Stop Kerbs		Fencing
	Kerbs Range		
	Traffic Management Kerbs		

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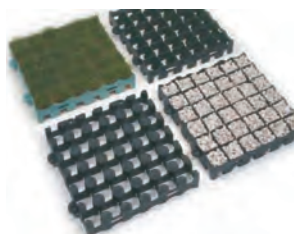
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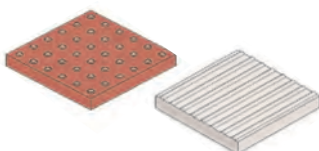


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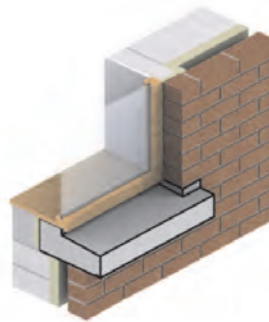


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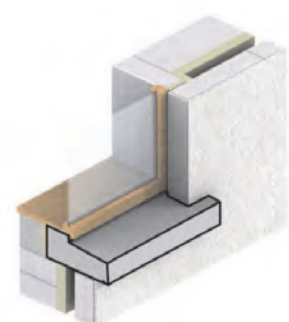
## KILLESHAL'S WINDOW SILLS INSTALLATION DETAILS

- Thermal insulation is necessary around window opening between elements to eliminate the risk of condensation and heat loss.
- Dampproof courses should be provided to the bottom, back and end of sills. That is a key element in construction to close cavity wall. Also sill must overhang wall beneath to allow water to drip off.
- After dampproof courses provide insulation and concrete backing to protect from heat loss.

STANDARD SIZES	TYPE	REFERENCE
	10 1/2 SILL	(S/385)
0.440	A SILL	(S/399)
0.552		
0.665	B SILL	(S/386)
0.777		
0.890	C SILL	(S/400)
1.002		
1.050	D SILL	(S/401)
1.115		
1.227	E SILL	(S/402)
1.340		
1.452	F SILL	(S/404)
1.565		
1.677	G SILL	(S/405)
1.790		
1.902	H SILL	(S/255)
2.015		
2.127	J SILL	(S/306)
2.240		
2.352	K SILL	(S/102)
2.465		
2.577	L SILL	(S/129)
2.690		
2.802	M SILL	(S/431)
2.915	N SILL	(S/ 531)



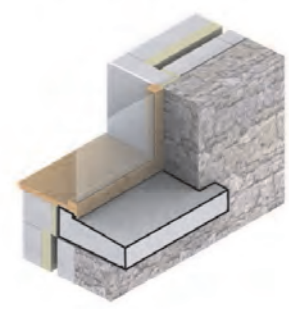
TYPE A STOOLED  
WINDOW SILL



TYPE A  
WINDOW SILL

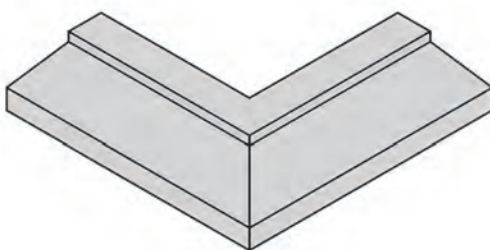


TYPE D  
WINDOW SILL

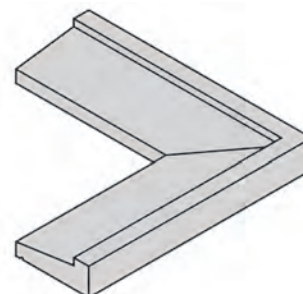


TYPE J  
WINDOW SILL

Other sizes available - contact Killeshal's customer service on +353 57 9353018



EXTERNAL CORNER



INTERNAL CORNER



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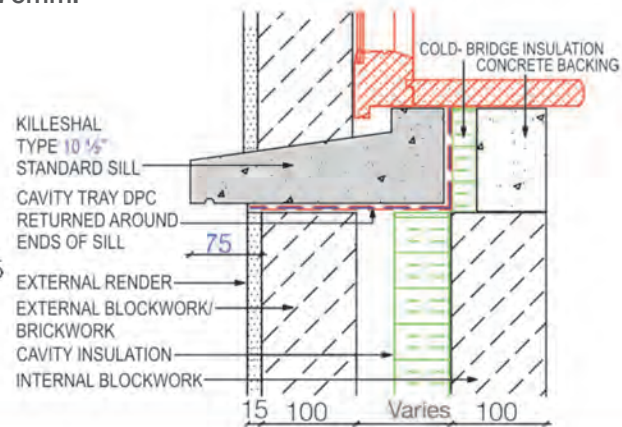
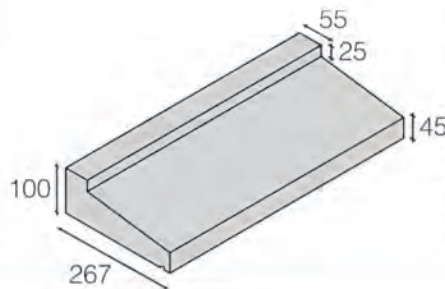


## SILL SUPPORTS AVAILABLE FOR ALL SILLS, SEE PAGE 19

### TYPE 10<sup>1</sup>/<sub>2</sub>" STANDARD WINDOW SILL REF S/385\*\* [44kg p/m]

Typically used with 100mm outer leaf, various cavities. The sill normally overhangs the outer leaf between 50mm and 75mm.

267 x 100 x 45mm\*

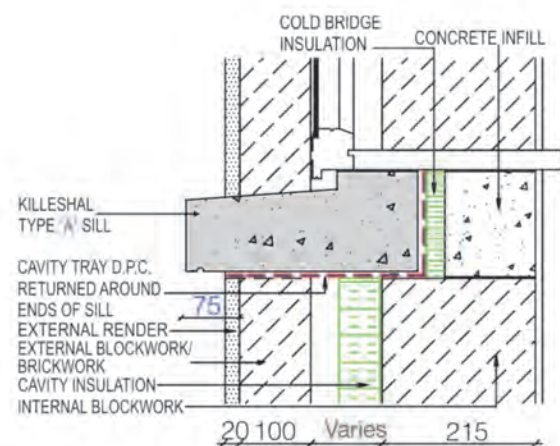
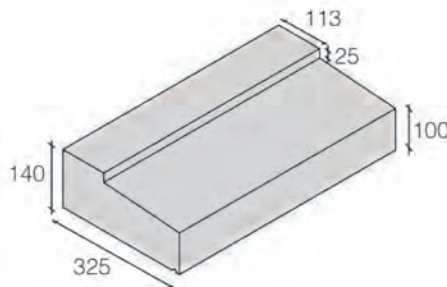


### TYPE A WINDOW SILL REF S/399\*\* [93kg p/m]

Typically used with 100mm outer leaf, various cavities. The sill normally overhangs the outer leaf between 50mm and 75mm.

325 x 140 x 100mm\*

To suit String Course Ref SC/109



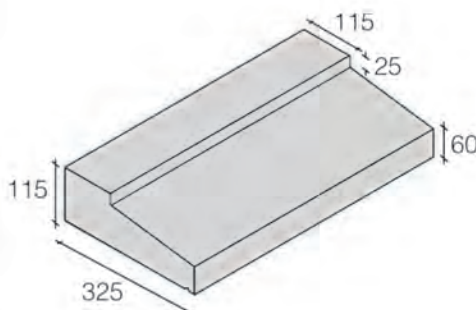
### TYPE B WINDOW SILL • REF S/386\*\* [70kg p/m]

Typically used with 100mm outer leaf, various cavities.

The sill normally overhangs the outer leaf by 50mm to 75mm

325 x 115 x 60mm\*

To suit String Course Ref SC/115



\*\* Denotes corners available

\* Sizes see page 6

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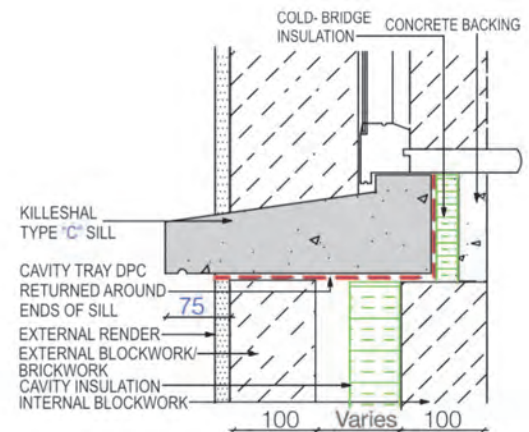
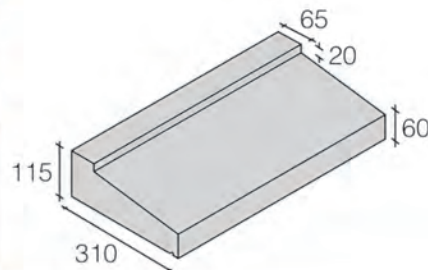


## TYPE C WINDOW SILL REF S/400 [64kg p/m]

This window sill has a reduced seating and is the sill we recommend when closing the cavity from the front to create a wide reveal outside. The sill normally overhangs the outer leaf by 50mm and 75mm

**310 x 115 x 60mm\***

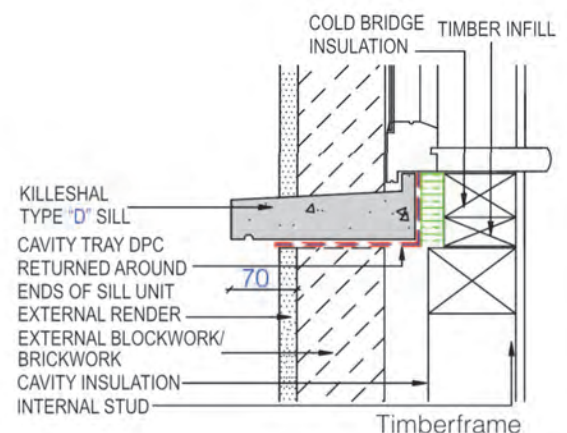
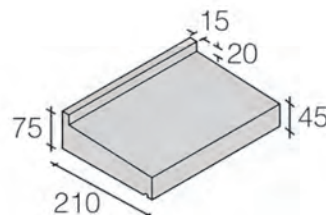
To suit String Course Ref SC/115



## TYPE D SUPERWARM WINDOW SILL REF S/401\*\* [26kg p/m]

Used for standard timber frame. The window sill normally overhangs the outer leaf by 70mm and hangs over the cavity by 40mm. This ensures that it does not contact the timber-frame.

**210 x 75 x 45mm\***

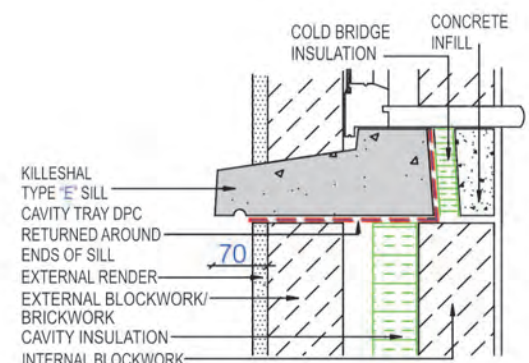
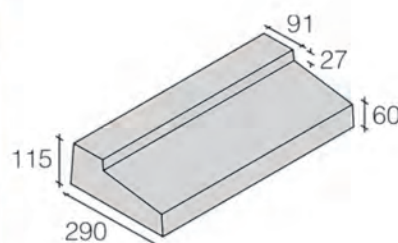


## TYPE E WINDOW SILL REF S/402\*\* [60kg p/m]

This window sill is a narrower version of the "B" Sill. Its size allows more concrete to be placed at the back of the sill, under the window board. The sill normally overhangs the outer leaf by 50mm to 75mm.

**290 x 115 x 60mm\***

To suit String Course Ref SC/115



\* Sizes see page 6

\*\* Denotes corners available

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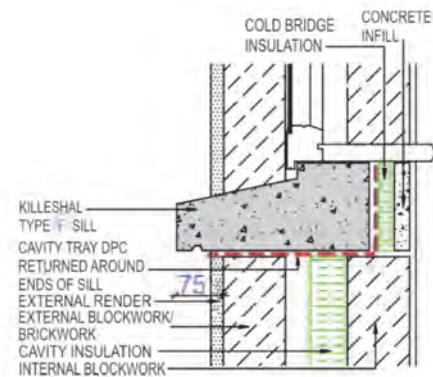
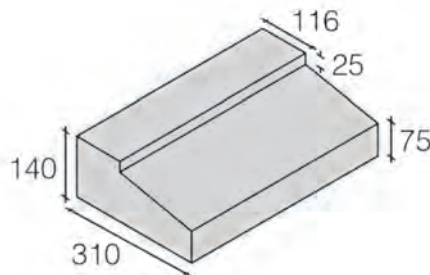


## TYPE F WINDOW SILL REF S/404\*\* [83kg p/m]

This window sill was developed as a slimmer alternative to the "A" Sill. The 75mm face is more acceptable to some clients. The sill normally overhangs the outer leaf by 50 to 75 mm.

**310 x 140 x 75mm\***

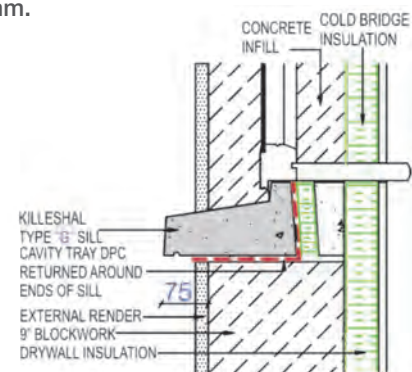
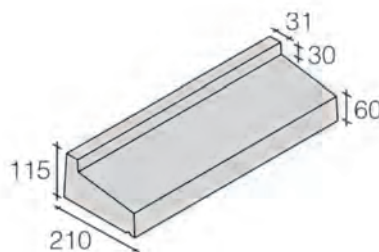
To suit String Course Ref SC/162



## TYPE G WINDOW SILL REF S/405\*\* [40kg p/m]

This window sill is popular in 215mm cavity block wall construction where the client wants to see more than the standard size window sill face. The size of the sill allows a certain amount of concrete to be placed behind the sill during construction. The sill normally overhangs the block work by 50 to 75 mm.

**210 x 115 x 60mm\***

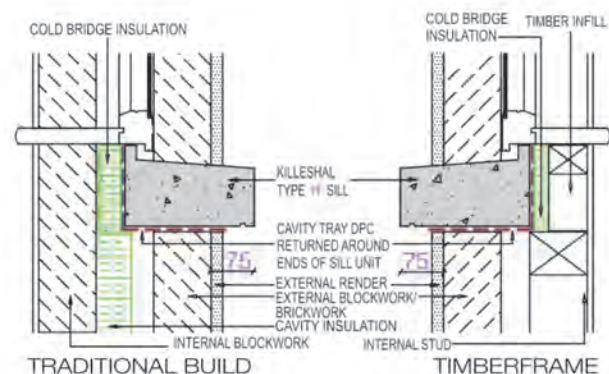
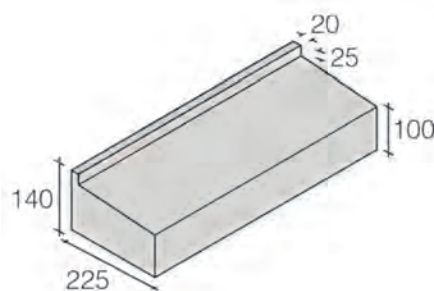


## TYPE H WINDOW SILL REF S/255\*\* [60kg p/m]

This is our heavier timber-frame window sill. (See Type D). The sill normally overhangs the outer leaf by 75 mm and hangs over the cavity by 50 mm. This ensures that it does not contact the timber-frame. Also suitable for traditional build.

**225 x 140 x 100mm\***

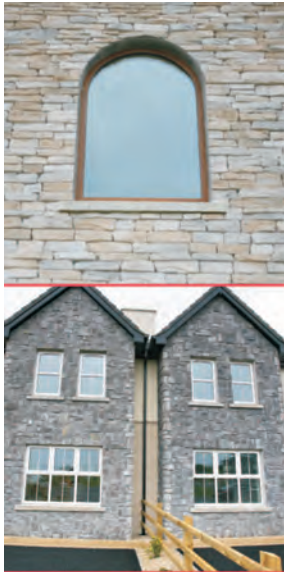
To suit String Course Ref SC/109



\* Sizes see page 6 \*\* Denotes corners available

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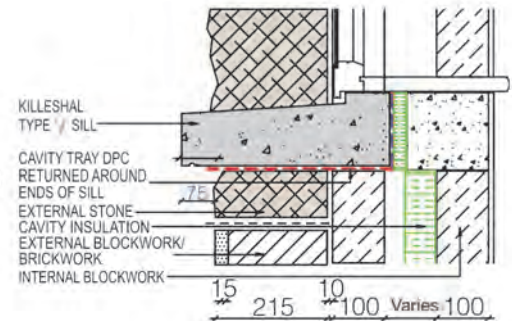
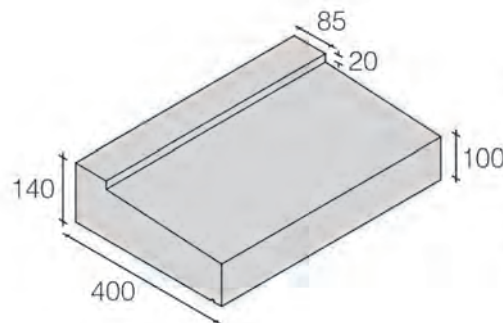




## TYPE J WINDOW SILL REF S/306\*\* [112kg p/m]

This window sill was developed to enable us to supply the growing number of buildings using natural stone cladding on the outside. The sill can be used with a 215 outer leaf construction. The sill positions the window 210 mm from the outside face of the masonry. The sill normally overhangs the outer leaf by 50 to 75mm.

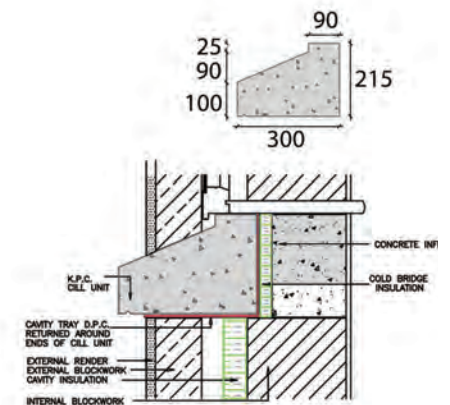
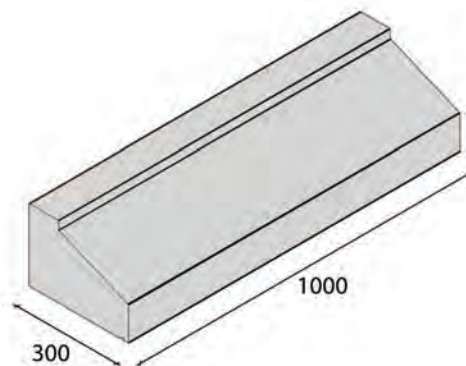
**400 x 140 x 100mm\***



## TYPE K WINDOW SILL REF S/102 [120kg p/m]

This window sill suits a 100mm outer leaf and varying cavity widths. There is a steep slope from the seating to the face to deter people from sitting on the sill. The sill normally overhangs the outer leaf by 50-75mm.

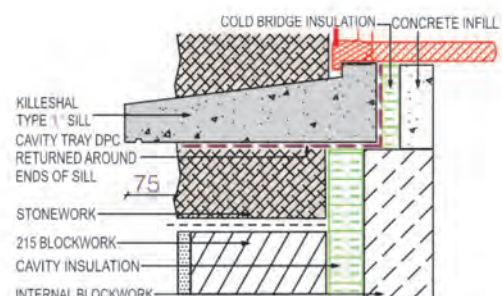
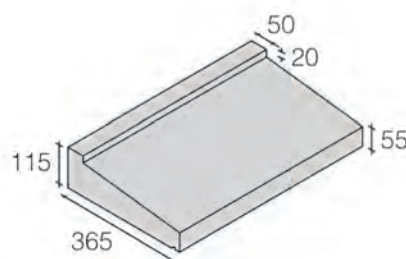
**300 x 1000 x 90mm\***



## TYPE L WINDOW SILL REF S/129 [71kg p/m]

This window sill was developed to enable us to supply the growing number of buildings using natural stone cladding on the outside. The sill can be used with a 300 outer leaf construction. The sill positions the window 300 mm from the outside face of the masonry. The sill normally overhangs the outer leaf by 50 to 75mm.

**365 x 115 x 55mm\***

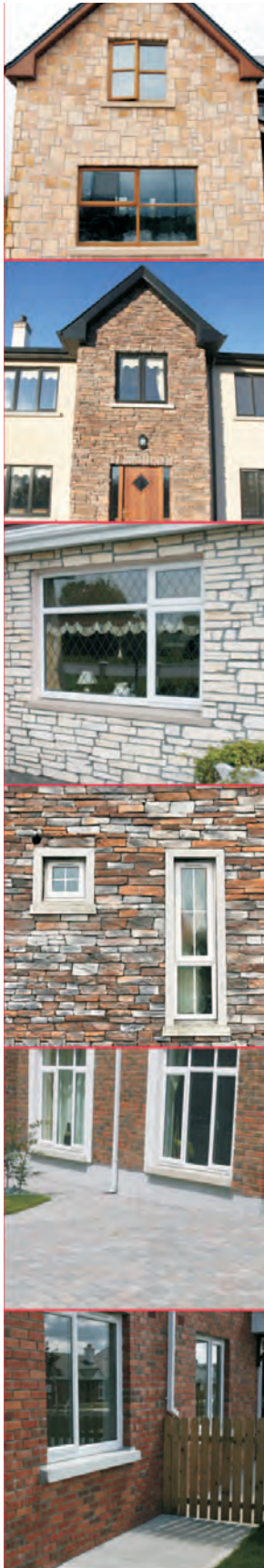


\* Sizes see page 6

\*\* Denotes corners available

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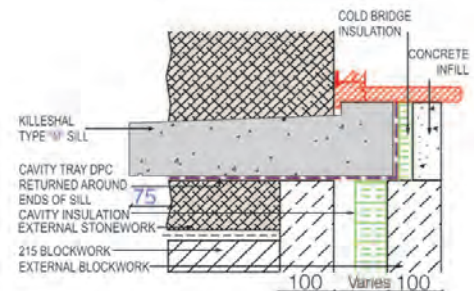
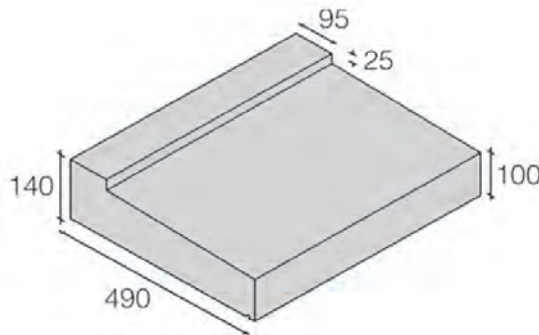




## TYPE M WINDOW SILL REF S/431 [135kg p/m]

This window sill was developed to enable us to supply the growing number of buildings using natural stone cladding on the outside. The sill can be used with a 300 outer leaf construction. The sill positions the window 300 mm from the outside face of the masonry. The sill normally overhangs the outer leaf by 50 to 75mm.

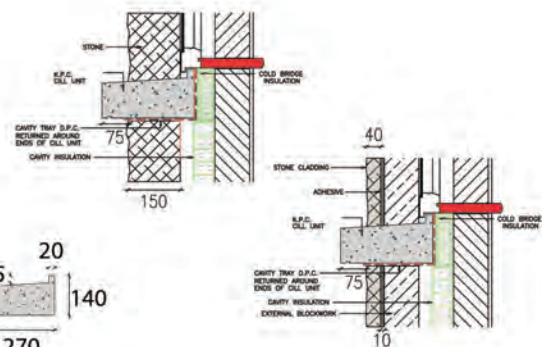
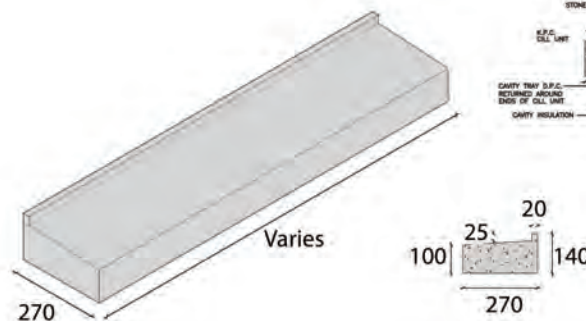
**490 x 140 x 100mm\***



## TYPE N STONEWRAP WINDOW SILL REF S/531 [70kg p/m]

This window sill was developed to enable us to supply the growing number of buildings using Stonewrap cladding on the outside. The sill can be used in both traditional and timber frame construction. The sill positions the window behind the external leaf of blockwork. The sill normally overhangs the Stonewrap cladding by 75mm.

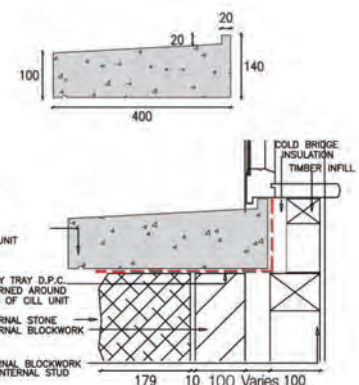
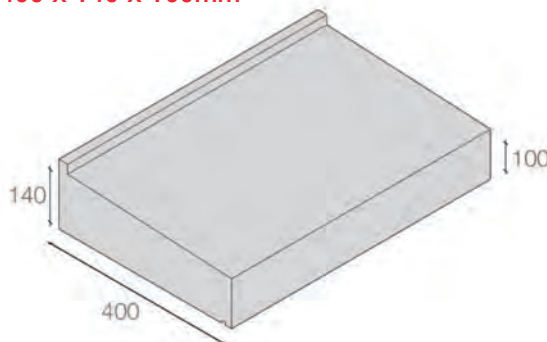
**270 x 140 x 100mm\***



## TYPE O WINDOW SILL REF S/369 [107kg p/m]

The sill can be used with both 215mm stone and 100mm block or 300mm block.

**400 x 140 x 100mm\***



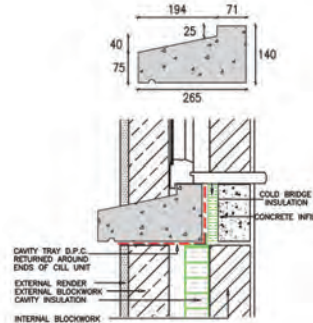
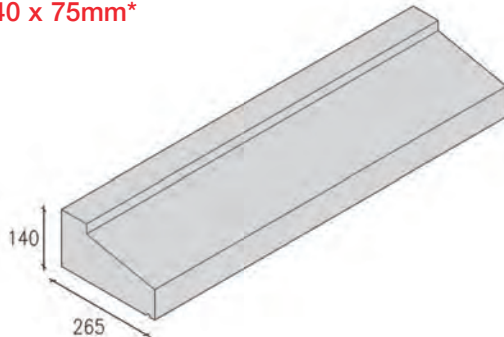
\* Sizes see page 6 \*\* Denotes corners available

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## TYPE S WINDOW SILL REF S/455 [68kg p/m]

This window sill is popular in cavity block wall construction where the client wants to see more than the standard size window sill face. The size of the sill allows a certain amount of concrete to be placed behind the sill during construction. The sill normally overhangs the block work by 50 to 75 mm.

**265 x 140 x 75mm\***

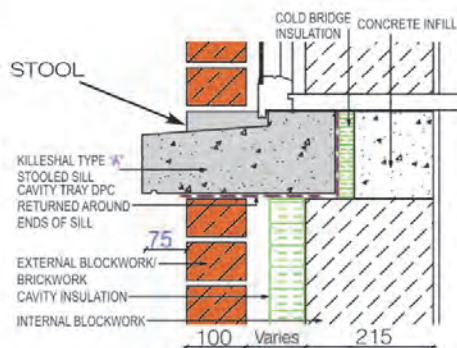
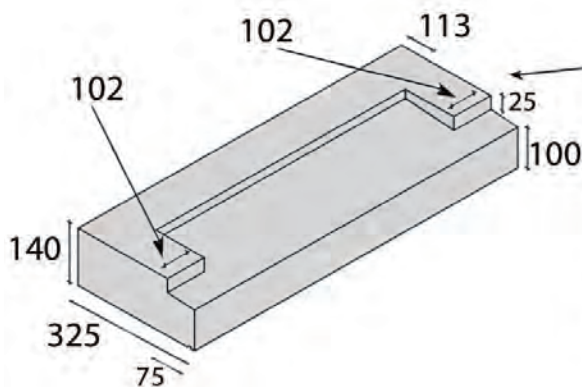


## THE A STOOLED WINDOW SILL REF S/113\*\*\* [98kg p/m]

Typically used with a 100mm brick outer leaf, various cavities and 215mm inner leaf. The sill normally overhangs the outer leaf by 75mm and rests 50mm of 215 inner leaf. Stools each side support brickwork and determine ope size.

**325 x 140 x 100mm\***

Used with String Course Ref SC/109

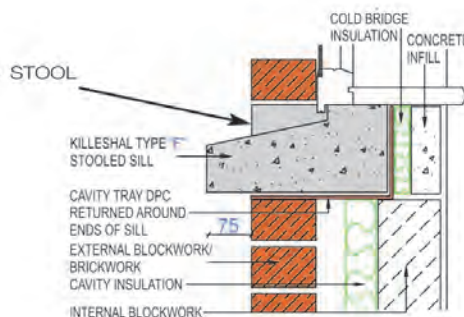
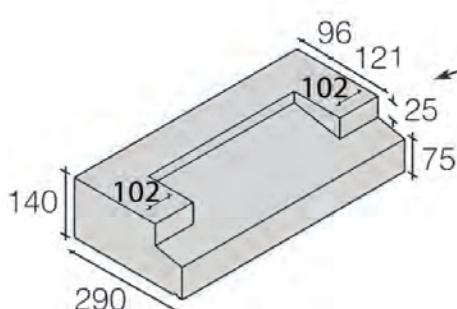


## TYPE F STOOLED WINDOW SILL REF S/359 [78kg p/m]

This window sill was developed as a slimmer alternative to the "A" Stooled Sill S/113. It's 75mm face is more acceptable to some clients. The sill normally overhangs the outer leaf by 75mm. Stools each end support brickwork and determine ope size.

**290 x 140 x 75mm\***

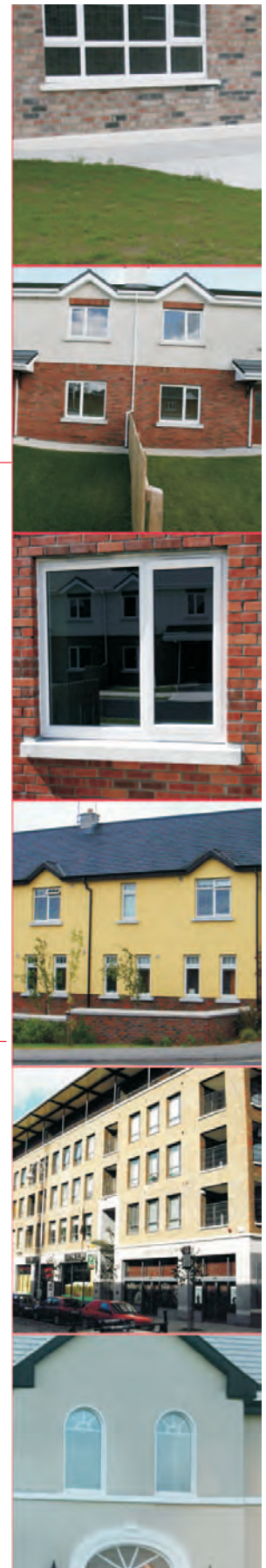
Used with String Course Ref SC/162



\*\* Non stooped corners available

\*\*\* Denotes corners available

\* Sizes see page 6



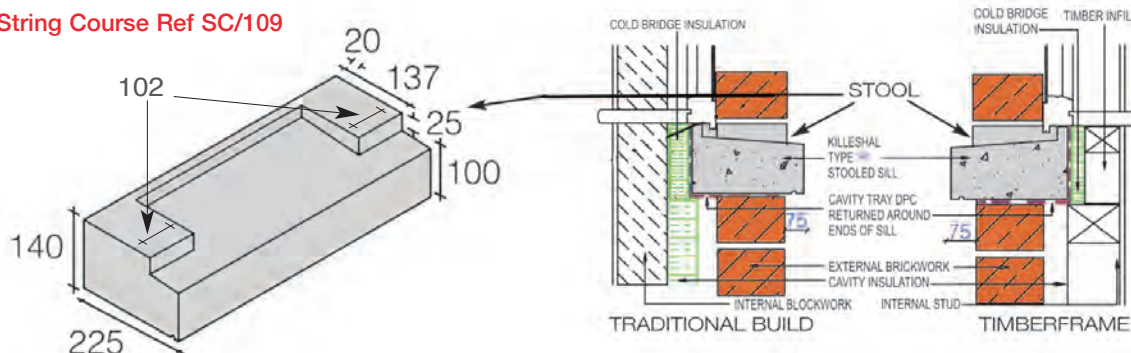


## TYPE H STOOLED WINDOW SILL REF S/422 [60kg p/m]

This is our heavier timber-frame window sill (see Type D). The sill normally overhangs the outer leaf by 75mm and rests. This ensures that it does not contact the timber-frame. Also suitable for traditional build. Stools each end support brickwork and determine ope size.

**225 x 140 x 100mm\***

Used with String Course Ref SC/109

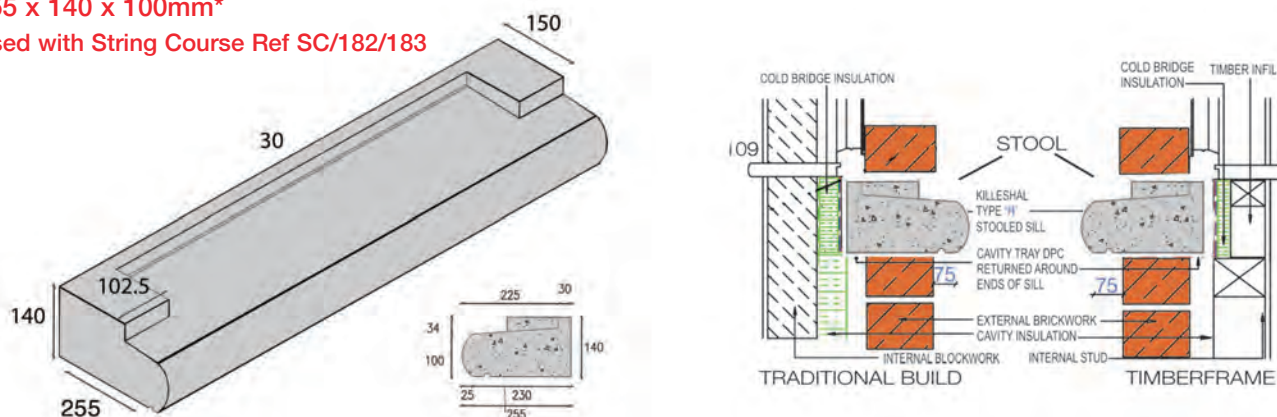


## STOOLED SILL RADIUS FACE REF S/577 [66kg p/m]

The sill can be used with a 100 outer leaf construction. The sill positions the window 100 mm from the outside face of the masonry. The sill normally overhangs the outer leaf by 50 to 75-mm.

**255 x 140 x 100mm\***

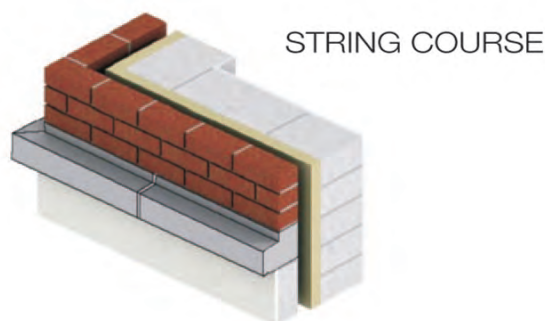
Used with String Course Ref SC/182/183



## STRING COURSE / BAND COURSE

### PROJECTION TO MATCH SILLS TYPE:

- A (Ref: S/399) - Ref: S/C 109
- A STOOLED (Ref: S/113) - Ref: S/C 109
- B (Ref: S/386) - Ref: S/C 115
- C (Ref: S/400) - Ref: S/C 115
- E (Ref: S/402) - Ref: S/C 115
- F (Ref: S/404) - Ref: S/C 162
- F STOOLED (Ref: S/359) - Ref: S/C 162
- H (Ref: S/255) - Ref: S/C 109
- H STOOLED (Ref: S/422) - Ref: S/C 109
- ROUND FACE STOOLED (Ref: S/577) - S/C 182, S/C 183



\*\*\* Denotes corners available

Other sizes available - contact Killeshal on +353 57 9353018

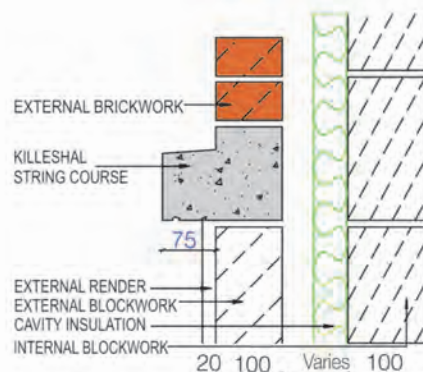
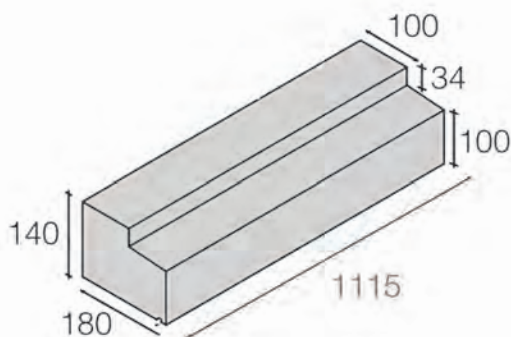
The information contained in the brochure was up to date at the time of going to print. Photographs, drawings, sizes and reference numbers are given as an indication only and can be changed without notice. Killeshal Precast Concrete Ltd reserves the right to modify product specification without notice.



## STRING COURSE S/C 109\*\*\* [54kg p/m]

to suit window sills A S/399, H S/255, A Stooled S/113, H Stooled S/422

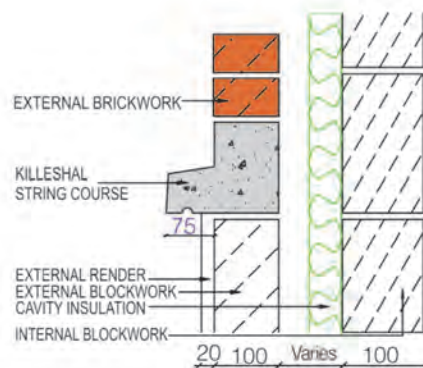
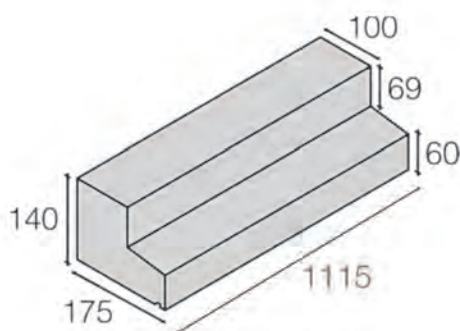
180 x 140 x 100mm



## STRING COURSE S/C 115\*\*\* [45kg p/m]

to suit window sills B S/386, C S/400, E S/402

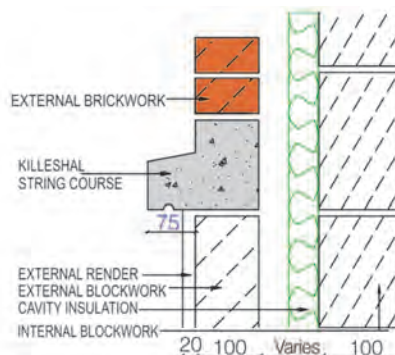
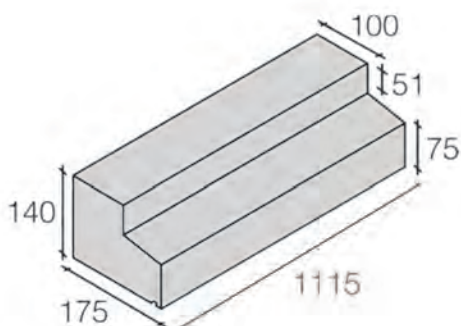
175 x 140 x 60mm



## STRING COURSE S/C 162\*\*\* [50kg p/m]

to suit window sills F S/404, F Stooled S/359, S455

175 x 140 x 75mm



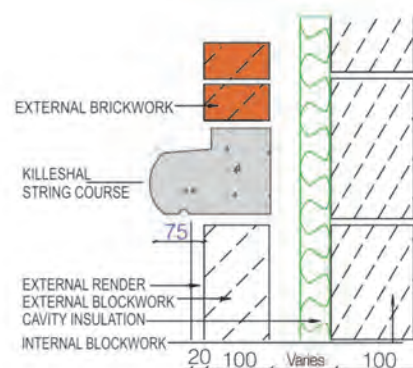
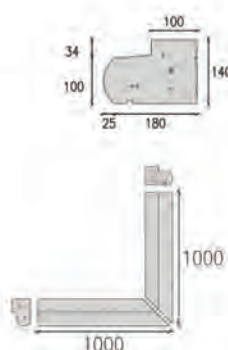
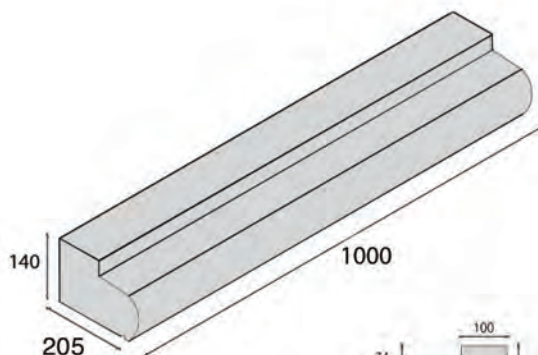
\*\*\* Denotes corners available

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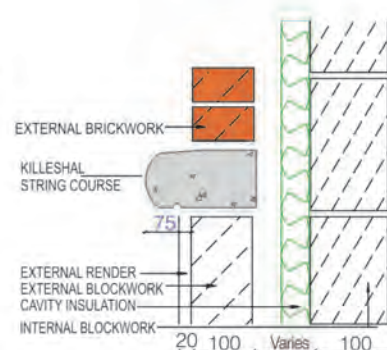
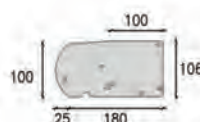
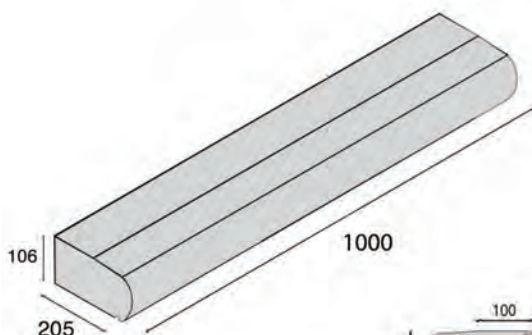
## STRING COURSE S/C 182 Round Faced String Course [58kg p/m] to suit window sill S/577

205 x 140 x 100mm



## STRING COURSE S/C 183 Round Faced Band Course [50kg p/m] to suit window sill S/577

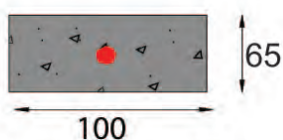
205 x 106 x 100mm





## CE CERTIFIED PRESTRESSED LINTELS

### L279 Strand



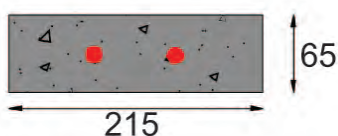
4" Prestressed Standard  
Concrete Lintel  
100 x 65 | 16kg p/m

### L280 Strand

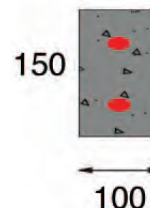


6" Prestressed Standard  
Concrete Lintel  
150 x 65 | 24kg p/m

### L281 Strand



9" Prestressed Standard  
Concrete Lintel  
215 x 65 | 34kg p/m



### L459

6" x 4" Prestressed  
Standard Concrete  
Lintel  
150 x 100 | 36kg p/m

### Special Notes

These tables are specific to lintels by Killeshal Precast Concrete Limited.

Killeshal Precast Concrete can issue a D.O.P. on these lintels when used as specified in these tables.

These Pre-stressed Lintels should be installed with the strands closest to the bottom.

Pre-stressed Lintels should be placed rough side up to achieve maximum bond with the composite blockwork above.

#### NHBGS

IS EN 1992-1-1 NATIONAL ANNEX:  
2010 COR 2016

IS EN 206:2013 Concrete

IS EN 845-2 2013 + A1 2016

EN 1996-1-1:2005

#### 2008 House Building Manual

Irish National Annex to Eurocode 2:  
Design of Concrete Structures - Part 1-1:  
General Rules and Rules for Buildings

Specification, performance, production  
and conformity

Specification for Ancillary Components  
for Masonry - Part 2- Lintels

General rules for reinforced and  
unreinforced masonry structures

### Pre-Stressed Units

- Concrete grade at 28 days = C35/45
- Concrete grade at transfer = C25/30
- Minimum characteristic strength of 7.9 mm diameter strand = 69 kN
- Minimum characteristic strength of 9.3 mm diameter strand = 93.5 kN

### Reinforced Units

- Concrete grade at 28 days = C35/45
- Characteristic Yield Strength of reinforcement (B500B Grade) = 500N/mm<sup>2</sup>
- Characteristic Yield Strength of reinforcement (Mild Steel Grade) = 250N/mm<sup>2</sup>

### Composite Units

- Characteristic strength of masonry = 7.322N/mm<sup>2</sup>
- Unit weight of masonry = 24kN/m<sup>3</sup>
- Characteristic strength of mortar = M4 Grade (4N/mm<sup>2</sup>)
- 5mm Bed Joints Minimum
- Mortar should be 1:4 Cement:Sand
- Bedding of blocks onto precast lintels should be done with mortar that is uninterrupted with DPC
- Bearing should be a minimum of 150mm for spans up to 1.5m and 200mm for spans over 1.5m
- Lintels should be bedded on mortar at supports
- All lintels greater than 1.2m in span should be propped
- Lintels should be propped at 1.2m centres and props should remain in position until construction has matured

### Loading

- Loading should not exceed the relevant values given in the load span tables presented in the following pages.
- All loads in the tables are given Kn/m.

### Design

- Design to allow for handling and transport stresses in addition to stresses imposed in the final position of the lintel.

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## CE CERTIFIED PRESTRESSED LINTELS

### 100x150 HD Prestressed Concrete Lintel

No.	Width (mm)	Depth (mm)	Maximum Clear Ope (mm)	Min Bearing Each Side (mm)	Lintel Length (mm)	Maximum Permitted Service Load (kN/m) (SLS)
2	100	150	1050	150	1350	28.8
4	100	150	1350	150	1650	18.3
6	100	150	1500	225	1950	15.1
8	100	150	1800	225	2250	9.9
10	100	150	2100	225	2550	7.4
12	100	150	2400	225	2850	5.8
13	100	150	2550	225	3000	5.1
14	100	150	2700	225	3150	4.6
15	100	150	2850	225	3300	4.1
16	100	150	3000	225	3450	3.7
17	100	150	3150	225	3600	3.4
18	100	150	3300	225	3750	3.0
19	100	150	3450	225	3900	2.8

#### Information regarding Declaration of Performance

Notified Body, SKG-IKOB (ID No. 0960) performed initial type testing under AVCP System 3 and issued test/calculation report No. 18-PR075-KI on the Pre-stressed Composite Lintels

#### A. Composite Lintel: 100mm wide solid masonry on 100x65mm deep lintel (Safety Factor = 2.25 assumed)

		CLEAR SPAN (m)					
No. Courses	Blockwork Depth(mm)	0.5	1.0	1.5	2.0	2.5	
1	75	9	4	3	-	-	
2	150	12	6	4	3	2	
3	225	>12	9	6	4	3	
4	300	>12	12	8	5	4	
5	375	>12	>12	10	7	5	
6	450	>12	>12	12	8	6	

#### B. Composite Lintel: 150mm wide solid masonry on 100x55mm deep lintel (Safety Factor = 2.25 assumed)

		CLEAR SPAN (m)					
No. Courses	Blockwork Depth(mm)	0.5	1.0	1.5	2.0	2.5	3.0
1	75	9	5	2	1	-	-
2	150	>12	10	6	4	2	-
3	225	>12	>12	8	6	4	2
4	300	>12	>12	11	8	6	4
5	375	>12	>12	>12	10	7	6
6	450	>12	>12	>12	12	9	7

#### C. Composite Lintel: 215mm wide solid masonry on 216x65mm deep lintel (Safety Factor = 2.25 assumed)

		CLEAR SPAN (m)						
No. Courses	Blockwork Depth(mm)	0.5	1.0	1.5	2.0	2.5	3.0	3.5
1	110	12	11	6	3	1	-	-
2	220	>12	>12	12	8	6	3	1
3	330	>12	>12	>12	12	10	7	5
4	440	>12	>12	>12	>12	12	10	8

#### Pre-stressed Concrete Lintels Standard Sizes

4 inch, 6 inch or 9 inch (100, 150 or 215mm)

Imperial	Metric
2' 0"	609mm
2' 6"	762mm
3' 0"	914mm
3' 6"	1066mm
4' 0"	1219mm
4' 6"	1371mm
5' 0"	1524mm
5' 6"	1676mm
6' 0"	1828mm
6' 6"	1981mm
7' 0"	2133mm
7' 6"	2286mm
8' 0"	2438mm
8' 6"	2590mm
9' 0"	2743mm
9' 6"	2895mm
10' 0"	3048mm
10' 6"	3200mm
11' 0"	3352mm
11' 6"	3505mm
12' 0"	3657mm
12' 6"	3809mm
13' 0"	3962mm

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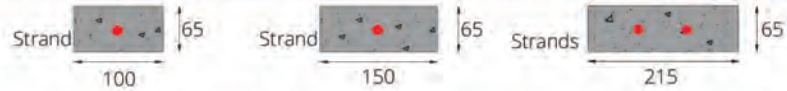
## CE CERTIFIED PRESTRESSED LINTELS

### LOAD SPAN TABLES FOR PRESTRESSED LINTELS

Information regarding  
Declaration of Performance

Notified Body, SKG-IKOB (ID No. 0960) performed initial type testing under AVCP System 3 and issued test/calculation report No. 18-PR099-KI for Killeshal Pre-stressed Concrete Lintels

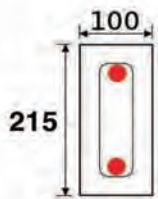
LOAD/SPAN TABLES FOR PRESTRESSED LINTELS,  
65mm Deep (Loads in Kn/m)  
(Safety Factor = 2.25 assumed)



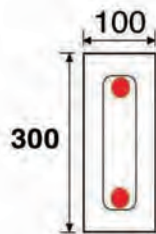
Lintel	CLEAR SPAN (m)					
	1m	1.2m	1.4m	1.6m	1.8m	
100mm wide lintel (1 no. strand)	2.65	1.91	1.43	1.1	0.86	
150mm wide lintel (1 no. strand)	3.52	2.53	1.88	1.44	1.13	
215mm wide lintel (2 no. strands)	5.59	4.03	3.01	2.31	1.81	

## CE CERTIFIED CONCRETE BEAMS

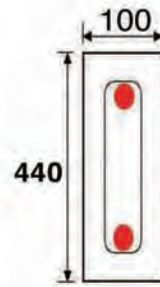
See overleaf for stock reference for 100x215mm and 215x215mm



**L-287**  
215x100 | 52kg p/m

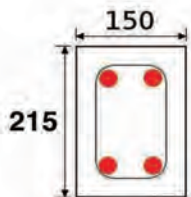


**L-291**  
300x100 | 73kg p/m

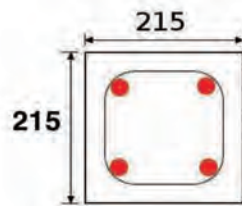


**L-450**  
440x100 | 106kg p/m

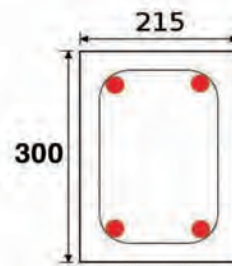
Other sizes  
also available



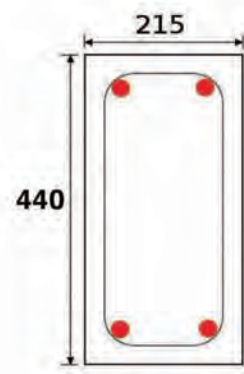
**L-457**  
215x150 | 78kg p/m



**L-288**  
215x215 | 111kg p/m



**L-303**  
300x215 | 155kg p/m



**L-308**  
440x215 | 227kg p/m





## Specification for Reinforced Concrete Beams from Killeshal Precast

### Special Notes

These tables are specific to RC Beams manufactured by Killeshal Precast Concrete. Killeshal Precast can issue a D.O.P. on their RC Beams when used as specified in these tables.

### Applicable Standards

Killeshal Precast Concrete RC Beams are manufactured to comply with this standard.

BS EN 13225:2013

Precast concrete products - Linear structural elements

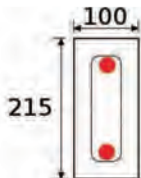
### RC Beam Units

- Minimum characteristic strength of concrete at 28 days- C35/45 N/Sq mm. Minimum characteristic strength of reinforcement 500 N/Sq mm (High Tensile)

### Loading / Opes

- Loading and opes should not exceed the values given in the tables below. All loads in tables are given Kn/m.
- If using a mix of dead & live loads, a calculation must be done to bring the load back to an equivalent Dead UDL

### Reinforced Concrete Beams 100mm x 215mm 50mm intervals may have limited stock



No.	Beam Width	Beam Depth	Maximum Clear Ope	Min Bearing Each Side	Beam Length	Unfactored Dead Load KN/M	Beam Ref
1	100	215	531	234.5	1000	59.8	Type B100-10
2	100	215	584	258	1100	72.7	Type B100-11
3	100	215	684	258	1200	57.1	Type B100-12
4	100	215	734	258	1250	51.0	Type B100-1250
5	100	215	784	258	1300	45.9	Type B100-13
6	100	215	884	258	1400	37.8	Type B100-14
7	100	215	984	258	1500	31.5	Type B100-15
8	100	215	1084	258	1600	26.8	Type B100-16
9	100	215	1184	258	1700	23.0	Type B100-17
10	100	215	1234	258	1750	21.3	Type B100-1750
11	100	215	1190	305	1800	37.5	Type B100-18
12	100	215	1290	305	1900	32.6	Type B100-19
13	100	215	1390	305	2000	28.5	Type B100-20
14	100	215	1490	305	2100	25.2	Type B100-21
15	100	215	1590	305	2200	22.4	Type B100-22
16	100	215	1640	305	2250	21.2	Type B100-2250
17	100	215	1690	305	2300	20.0	Type B100-23
18	100	215	1790	305	2400	18.0	Type B100-24
19	100	215	1890	305	2500	16.3	Type B100-25
20	100	215	1896	352	2600	21.1	Type B100-26
21	100	215	1996	352	2700	18.9	Type B100-27
22	100	215	2046	352	2750	17.9	Type B100-2750
23	100	215	2096	352	2800	17.0	Type B100-28
24	100	215	2196	352	2900	15.3	Type B100-29
25	100	215	2296	352	3000	13.8	Type B100-30
26	100	215	2396	352	3100	12.6	Type B100-31
27	100	215	2496	352	3200	11.5	Type B100-32
28	100	215	2546	352	3250	11.0	Type B100-3250
29	100	215	2596	352	3300	10.5	Type B100-33
30	100	215	2696	352	3400	9.6	Type B100-34
31	100	215	2796	352	3500	8.7	Type B100-35

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## Specification for Reinforced Concrete Beams from Killeshal Precast

### Special Notes

These tables are specific to RC Beams manufactured by Killeshal Precast Concrete.

Killeshal Precast can issue a D.O.P. on their RC Beams when used as specified in these tables.

### Applicable Standards

Killeshal Precast Concrete RC Beams are manufactured to comply with this standard.

BS EN 13225:2013

Precast concrete products - Linear structural elements

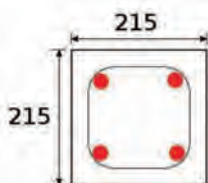
### RC Beam Units

- Minimum characteristic strength of concrete at 28 days- C35/45 N/Sq mm. Minimum
- characteristic strength of reinforcement 500 N/Sq mm (High Tensile)

### Loading / Opes

- Loading and opes should not exceed the values given in the tables below. All loads in tables are given Kn/m.
- If using a mix of dead & live loads, a calculation must be done to bring the load back to an equivalent Dead UDL

### Reinforced Concrete Beams 215mm x 215mm 50mm intervals may have limited stock



No.	Beam Width	Beam Depth	Maximum Clear Ope	Min Bearing Each Side	Beam Length	Unfactored Dead Load KN/M	Beam Ref
1	215	215	531	234.5	1000	120.1	Type B215-10
2	215	215	584	258	1100	146.2	Type B215-11
3	215	215	684	258	1200	114.7	Type B215-12
4	215	215	734	258	1250	102.6	Type B215-1250
5	215	215	784	258	1300	92.4	Type B215-13
6	215	215	884	258	1400	75.9	Type B215-14
7	215	215	984	258	1500	63.4	Type B215-15
8	215	215	1084	258	1600	53.8	Type B215-16
9	215	215	1184	258	1700	46.1	Type B215-17
10	215	215	1234	258	1750	42.8	Type B215-1750
11	215	215	1190	305	1800	75.8	Type B215-18
12	215	215	1290	305	1900	65.8	Type B215-19
13	215	215	1390	305	2000	57.6	Type B215-20
14	215	215	1490	305	2100	50.9	Type B215-21
15	215	215	1590	305	2200	45.3	Type B215-22
16	215	215	1640	305	2250	42.7	Type B215-2250
17	215	215	1690	305	2300	40.5	Type B215-23
18	215	215	1790	305	2400	36.4	Type B215-24
19	215	215	1890	305	2500	32.9	Type B215-25
20	215	215	1896	352	2600	43.9	Type B215-26
21	215	215	1996	352	2700	39.6	Type B215-27
22	215	215	2046	352	2750	37.5	Type B215-2750
23	215	215	2096	352	2800	35.5	Type B215-28
24	215	215	2196	352	2900	32.0	Type B215-29
25	215	215	2296	352	3000	29.0	Type B215-30
26	215	215	2396	352	3100	26.3	Type B215-31
27	215	215	2496	352	3200	23.9	Type B215-32
28	215	215	2546	352	3250	22.7	Type B215-3250
29	215	215	2596	352	3300	21.6	Type B215-33
30	215	215	2696	352	3400	19.6	Type B215-34
31	215	215	2796	352	3500	17.8	Type B215-35

The information contained in the brochure was up to date at the time of going to print. Photographs, drawings, sizes and reference numbers are given as an indication only and can be changed without notice. Killeshal Precast Concrete Ltd reserves the right to modify product specification without notice.

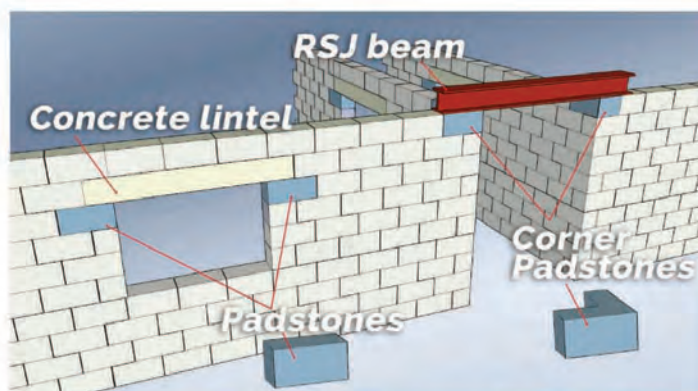


## CONCRETE PADSTONES

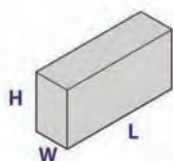
Killeshal manufactures a range of Precast Concrete Padstones to match our extensive range of Lintels and Beams. These padstones are stronger than a conventional masonry block, made in 40N/Sq mm concrete mix.

### Features and Advantages over In-Situ Casting:

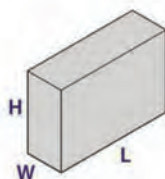
- Simple to use - bed in place just like blocks
- Readily available - standard sizes ex-stock
- Reduced labour costs with no on-site casting
- Tough 40N/Sq mm concrete material
- Reduces risk of lintel and beam load transfers crushing blockwork underneath
- Non-standard sizes/custom requirements can be catered for



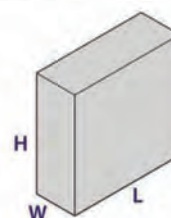
If you have specific off-standard requirements please contact our Technical Sales Team



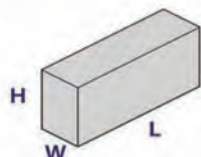
W:100mm x H:215mm | 52kg p/m  
L: 440/665/890 ex-stock



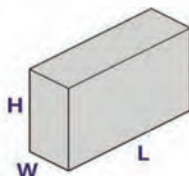
W:100mm x H:300mm | 73kg p/m  
L: 440/665/890



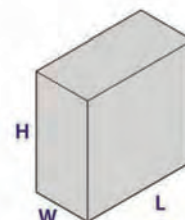
W:100mm x H:440mm | 106kg p/m  
L: 440/665/890



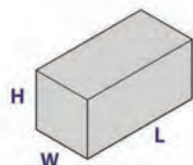
W:150mm x H:215mm | 77kg p/m  
L: 440/665/890 ex-stock



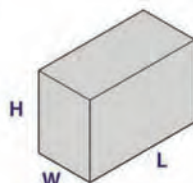
W:150mm x H:300mm | 108kg p/m  
L: 440/665/890



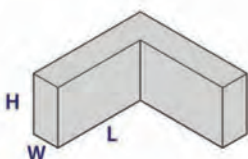
W:215mm x H:440mm | 220kg p/m  
L: 440/665/890



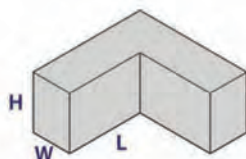
W:215mm x H:215mm | 110kg p/m  
L: 440/665/890



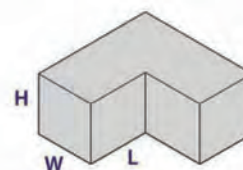
W:215mm x H:300mm | 155kg p/m  
L: 440/665/890



W:100mm x H:215mm | 52kg p/m  
L: 440/665



W:150mm x H:215mm | 77kg p/m  
L: 440/665



W:215mm x H:215mm | 110kg p/m  
L: 440/665

Other sizes available on request

Our Technical Sales Team are ready to help with advice on specifying the correct PadStone for your application

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## GALVANISED & STAINLESS STEEL LINTELS

Killeshal have been working closely with IG Steel Lintels for a number of years now and have a dedicated value added engineering contact within IG. This means we can now offer a top class value added engineering service and ensure that the selection and specification of steel lintels and masonry support components for your building project will answer to your specific project requirements.

We offer a range of Steel Lintels to cover numerous applications (image below is a sample set)



Hi-Therm



Cavity Wall



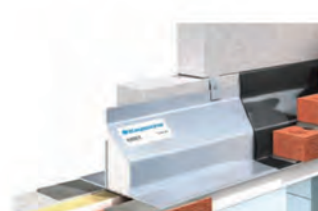
Eaves Lintels



Wide Inner Leaf



Wide Outer Leaf



Thin Joint Lintels



Timber Frame

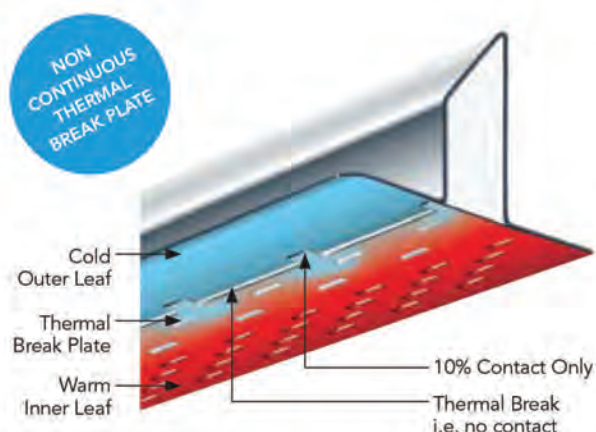


Single Leaf Lintels



Solid Wall Box Lintels

## STEEL LINTELS with Built-in Insulation for Better Thermal Efficiency



Our standard range of lintels are manufactured from high quality grade pre-galvanised mild steel to BS EN 10346:2009 DX51D plus Z600 or grade Z275 to BS EN10025-2:2004 with minimised spangle finish and a minimum yield stress of 250N/mm<sup>2</sup>.

Keystone lintels are insulated with expanded CFC free polystyrene and conform to BS 13163: 2008.

These lintels have been subjected to a fire test (ref: WARRES No.101263) in accordance with standard BS 476: Part20: 1987, and achieved a one hour fire performance.



## BRICK SLIP FEATURE LINTELS



As illustrated, the Brick Slip Feature Lintel joins seamlessly with the rest of the construction.

Brick Slip Steel Lintels Features:

- Precision Cut Bricks
- Load Bearing Lintel
- Lightweight for fast build programmes
- Optional brick clad soffit
- Optional centrestone feature
- Optional Insulation
- Various shapes available

Our partner, Keystone, provides a technically advanced solution for an extensive range of brick slip installations. Produced off site as a one piece prefabricated unit, the patented Keystone system ensures maximum performance thanks to the unique adhesion process.

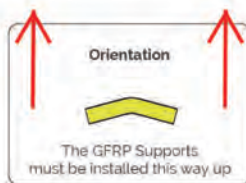
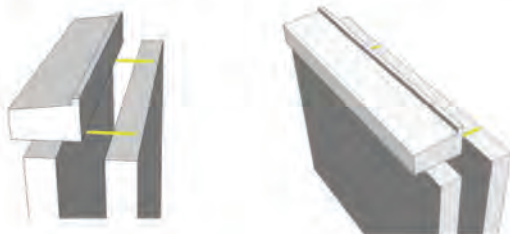
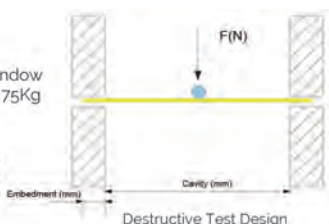
We use a consignment of the brick being used on site. This brick is then tailored to suit the client's design and fixed to Keystone's galvanised and powder coated structural steel elements.

Brick Slip Feature Steel Lintels are a one piece prefabricated unit, custom manufactured to order, to achieve even the most challenging of architectural designs.

## GFRP CROSS-CAVITY WINDOW SILL SUPPORTS

Killeshal's GFRP Window Sill Supports have been tested for use in supporting window sills across a wall cavity and carry a manufacturer's declared load capacity from 75Kg (735N) for the 250mm length to 65Kg (613N) for the 325mm length.

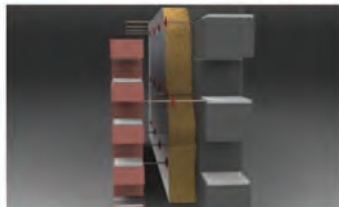
Using the GFRP ties and assuming a maximum cavity width of 150mm for the 250mm ties (embedment of 50mm each side of the cavity) and 200mm for the 350mm ties (embed of 62.5mm), the wall ties were tested to the point of failure.



## DUAL PURPOSE GFRP WALL TIES

Our GFRP Ties have been successfully tested in two applications, as highly thermally efficient wall ties and as window sill supports for sill stabilisation to prevent the sill form tipping back into the wall cavity.

### GFRP Wall Ties (Glass Fiber Reinforced Polymer) For Superior U-Values



Our GFRP Wall Ties are thermally insulating, symmetrical, horizontal composite wall ties and comprised of pultruded glass fibres set in a vinyl ester resin. They have a coarse silica finish to ensure a good bond with mortar joints and help prevent moisture crossing the cavity. Available for use in cavity widths ranging from 50mm to 200mm. Nominally 4.8mm thick including silica coating (3mm without), 16mm wide, and they have a chevron-shaped profile.

Table 1: Assuming a 100mm Inner Leaf

Cavity Range	Recommended Length	Max Storey Height	Product Code
70-120mm	250mm	15	QF-WT-T2-250
120-145mm	275mm	15	QF-WT-T2-275
150-200mm	325mm	15	QF-WT-T2-325

Table 2: Assuming a 215mm Inner Leaf

Cavity Range	Recommended Length	Max Storey Height	Product Code
50-120mm	250mm	15	QF-WT-T2-250
125-200mm	325mm	15	QF-WT-T2-325

## MASONRY SUPPORTS

A range of systems suitable for supporting any outer leaf material: brickwork, fairface blockwork, rendered blockwork, cut and reconstituted stone. The systems can be fixed back to reinforced concrete cast-in channel and steel sections.

### INDUSTRY LEADING ADJUSTABILITY

It has industry leading adjustability - this mitigates for on-site conditions in the most cost effective way possible.

### REQUIRES 25% LESS BRACKETS

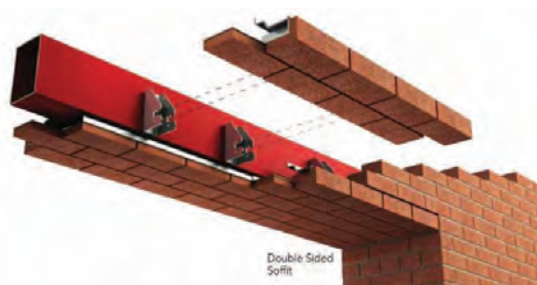
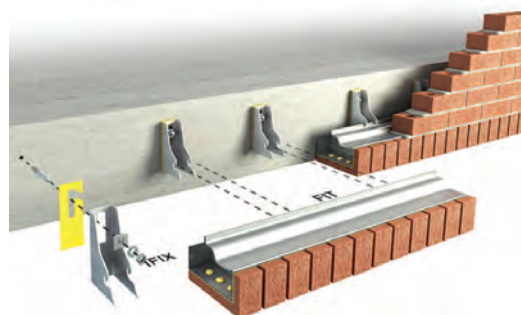
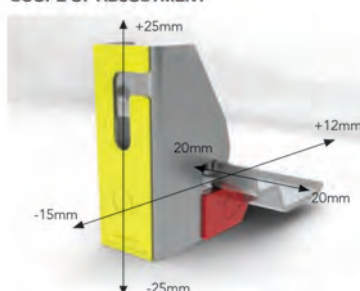
It has the strongest angle section on the market -this means that compared to our next best competitor, up to 25% fewer support brackets are required.

### SUPPLIED EX-STOCK

All configurations are available ex-stock - this makes it easier to specify and cheaper to source.

We can work with you to engineer solutions to your unique requirements and develop Custom Designs from Gothic Arch to Porthole and Bay Lintels in addition to the standard ranges.

#### SCOPE OF ADJUSTMENT



## HALFEN BALCONY CONNECTORS

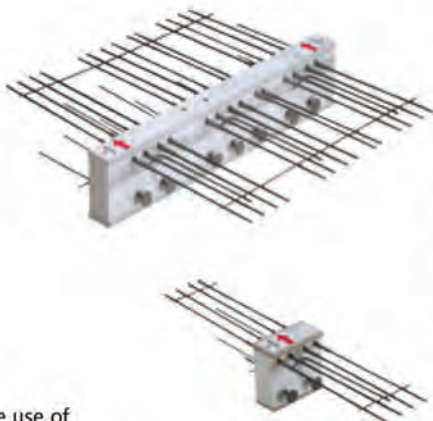
**B**alconies offer additional living space and increase the quality of life – as long as they do not compromise the insulation of the building interior. The insulation problems of concrete balconies are solved with the HIT balcony connection from HALFEN.

### Eco-friendly

HALFEN HIT connections are designed to help maintain comfortable interior temperatures while reducing energy use.

### Efficient

Integral polystyrene insulation and the selective use of stainless steel components almost eliminates thermal transfer between the balcony and the floor slab. This reduces heat loss through the structure and reduces the possibility of interior condensation and mold growth.



### Versatile

An extensive range of sizes and configurations enable a HALFEN HIT solution for virtually all concrete balcony connections, whether fully cantilevered, partially projecting or fully inset. We can also offer you an insulated connection solution for many other types of projecting concrete features including, walkways, corbels, parapets, and canopies.

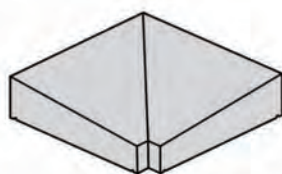
### Safe

All load-bearing components in the insulating joint are made from high-quality corrosion-resistant stainless steel. All HALFEN HIT balcony connections are available with reliable fire protection.

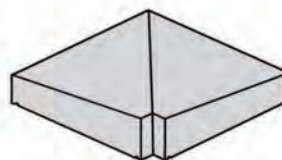




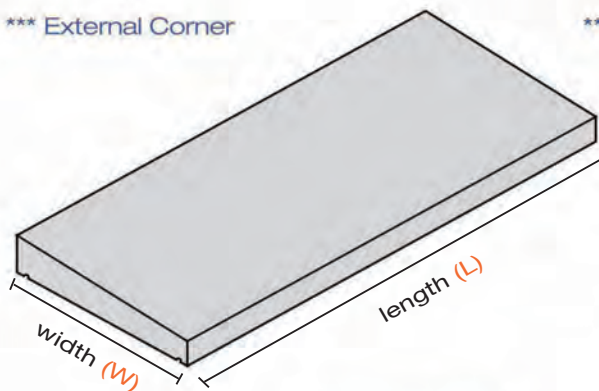
## FEATHER EDGED WALL COPING



\*\*\* External Corner



\*\*\* Internal Corner



Feather Edged wall cap section



**W/C 330**

1000(L) x 248kg p/m



**W/C 307**

1000(L) x 210kg p/m



**W/C 128**

1000(L) x 195kg p/m



**W/C 186\*\*\***

1000(L) x 182kg p/m



**W/C 197\*\*\***

1000(L) x 160kg p/m



**W/C 476**

890(L) x 147kg p/m



**W/C 218\*\*\***

1000(L) x 135kg p/m



**W/C 220\*\*\***

1000(L) x 105kg p/m



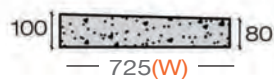
**W/C 158**

1000(L) x 82kg p/m



**W/C 479**

890(L) x 165kg p/m



**W/C 278**

1000(L) x 157kg p/m



**W/C 670**

1000(L) x 140kg p/m



**W/C 401\*\*\***

1000(L) x 127kg p/m



**W/C 270\*\*\***

1000(L) x 136kg p/m



**W/C 103\*\*\***

1000(L) x 116kg p/m



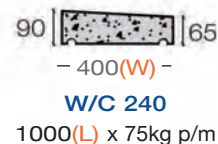
**W/C 298\*\*\***

1000(L) x 100kg p/m



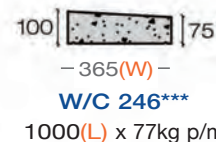
**W/C 631**

1000(L) x 84kg p/m



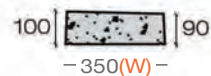
**W/C 240**

1000(L) x 75kg p/m



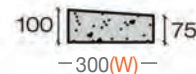
**W/C 246\*\*\***

1000(L) x 77kg p/m



**W/C 302**

1000(L) x 80kg p/m



**W/C 112\*\*\***

1190(L) x 63kg p/m



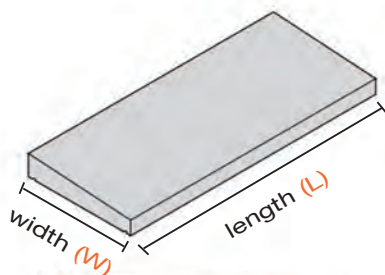
**W/C 555\*\*\***

1190(L) x 50kg p/m

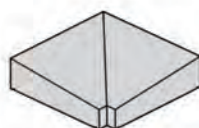
\*\*\* Denotes corners available - SPECIALS MADE TO ORDER

Other sizes available - contact 057 9353018

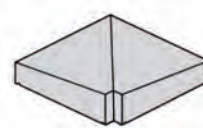
## FEATHER EDGED WALL COPING



Feather  
Edged  
wall cap  
section



\*\*\* External Corner



\*\*\* Internal Corner



**W/C 269**  
1000(L) x 120kg p/m



**W/C 427\*\*\***  
914(L) 73kg each



**W/C 424\*\*\***  
914(L) 52kg each



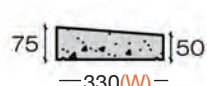
**W/C 349**  
915(L) x 30kg each



**W/C 277**  
1000(L) x 105kg p/m



**W/C 426\*\*\***  
914(L) 67kg each



**W/C 423\*\*\***  
914(L) 45kg each



**W/C 452**  
890(L) x 30kg each



**W/C 428\*\*\***  
914(L) 84kg each



**W/C 425\*\*\***  
914(L) 57kg each

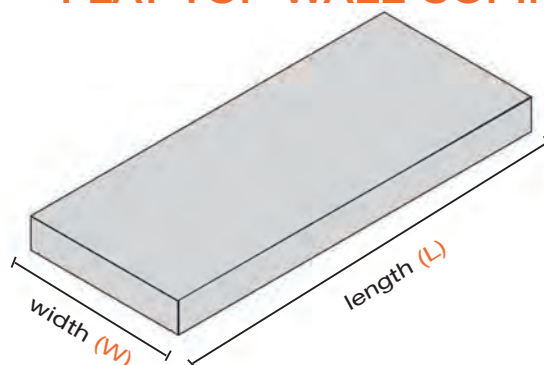


**W/C 346**  
1000(L) 40kg each

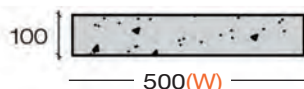


**W/C 351**  
1000(L) x 19kg p/m

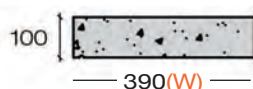
## FLAT TOP WALL COPING



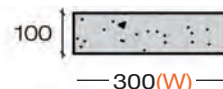
Flat Top  
wall cap  
section



**W/C 469**  
1000(L) x 120kg p/m



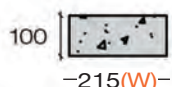
**W/C 484**  
900(L) x 85kg p/m



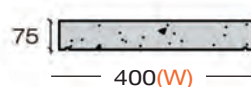
**W/C 449**  
1000(L) x 72kg p/m



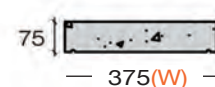
**W/C 535**  
1190(L) x 72kg p/m



**W/C 450**  
1190(L) x 62kg p/m



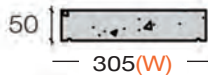
**W/C 245**  
1000(L) x 72kg p/m



**W/C 148**  
1000(L) x 70kg p/m



**W/C 467**  
790(L) x 37kg p/m



**W/C 624**  
1000(L) x 37kg p/m



**W/C 443**  
900(L) x 24kg p/m

\*\*\* Denotes corners available

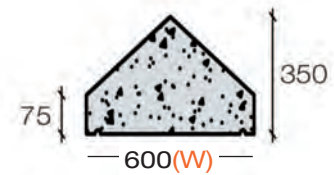
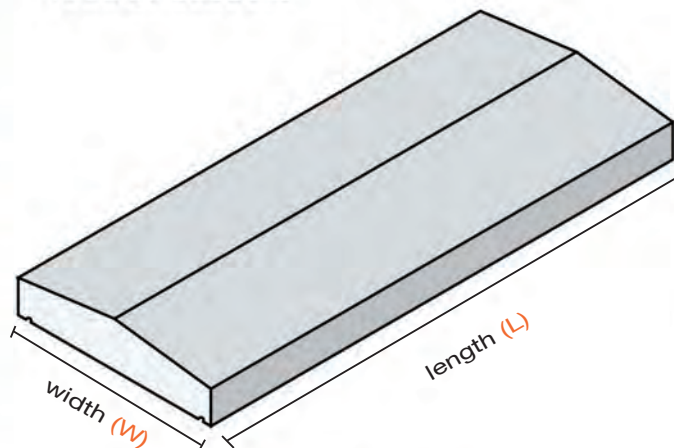




## SADDLE BACK WALL COPING

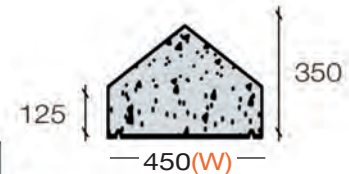
Saddle Back wall cap section

For technical details  
please contact  
customer service on  
+353 57 9353018



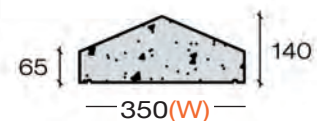
**W/C 620**

1000(L) x 306kg p/m



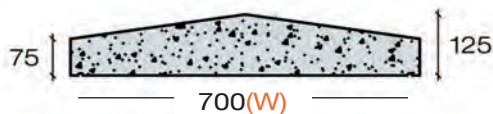
**W/C 623**

1000(L) x 243kg p/m



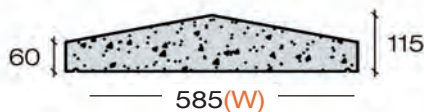
**W/C 288**

1000(L) x 87kg p/m



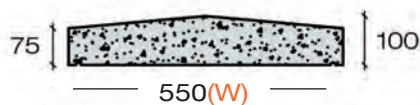
**W/C 400**

1000(L) x 168kg p/m



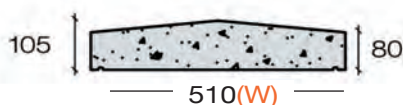
**W/C 151**

1285(L) x 160kg p/m



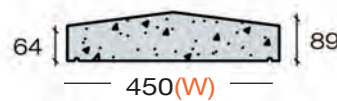
**W/C 453**

1000(L) x 116kg p/m



**W/C 140**

915(L) x 114kg p/m



**W/C 422**

914(L) 76kg each



**W/C 421**

914(L) 40kg each



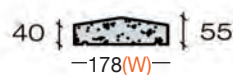
**W/C 420**

914(L) 40kg each



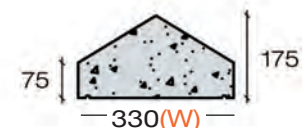
**W/C 419**

914(L) 32kg each



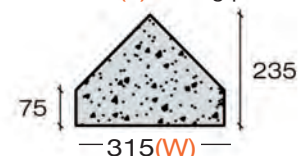
**W/C 418**

914(L) 18.5kg each



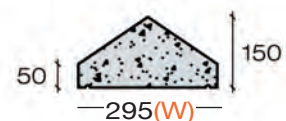
**W/C 127**

1000(L) x 99kg p/m



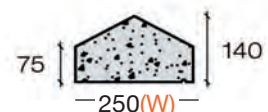
**W/C 435**

1083(L) x 127kg p/m



**W/C 518**

1000(L) x 71kg p/m



**W/C 560**

1000(L) x 65kg p/m

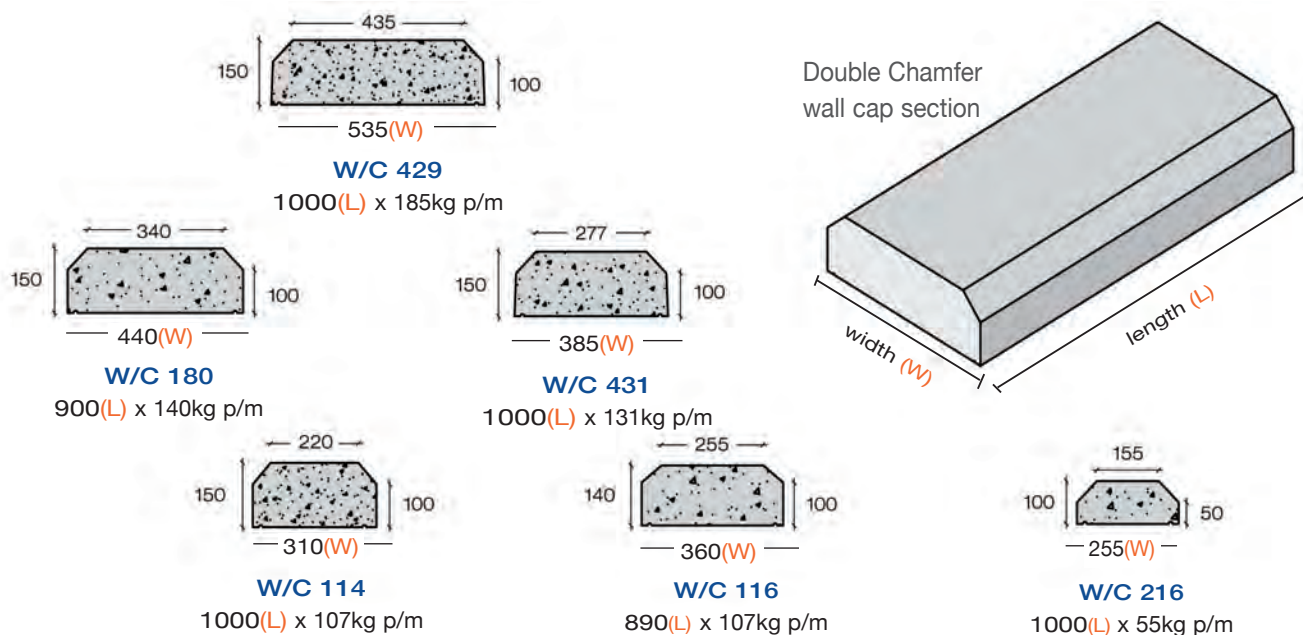


**W/C 559**

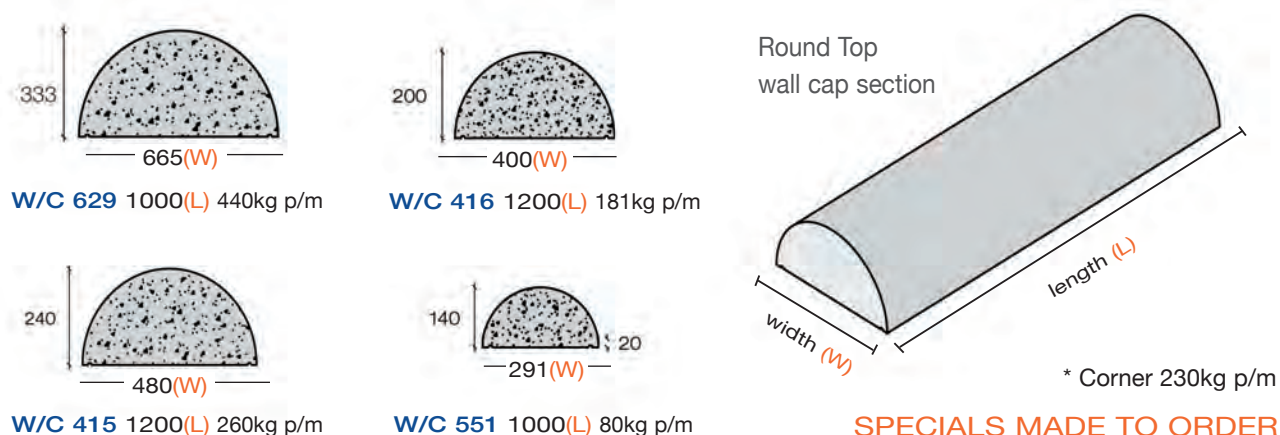
1000(L) x 47kg p/m

**SPECIALS MADE TO ORDER**

## DOUBLE CHAMFER WALL COPING



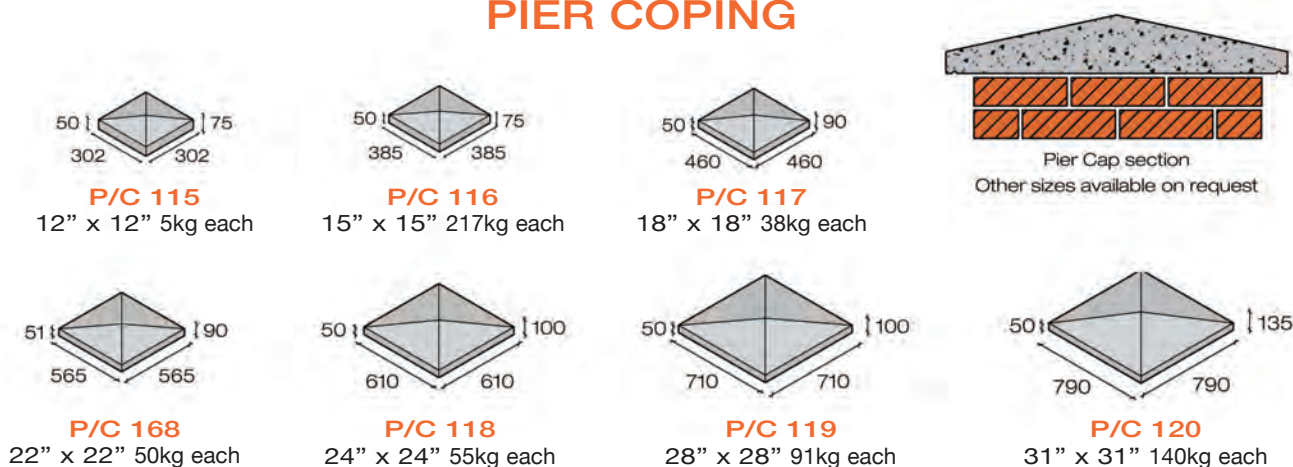
## ROUND TOP WALL COPING



**SPECIALS MADE TO ORDER**

ANTI-VANDAL MESH STRAP AVAILABLE ON MOST WALL AND PIER COPING

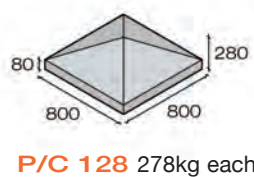
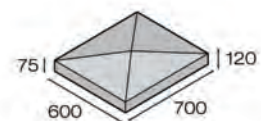
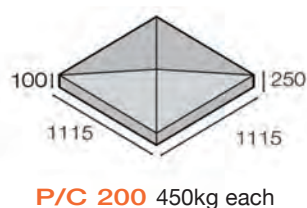
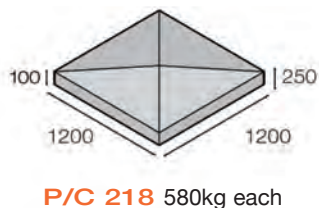
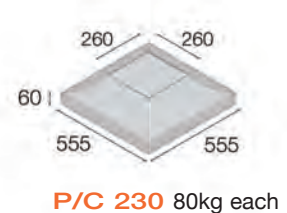
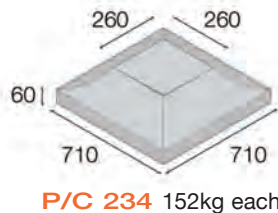
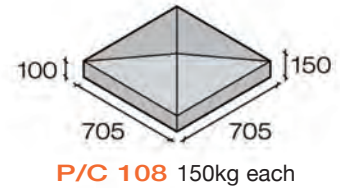
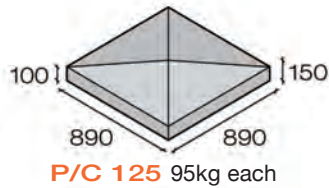
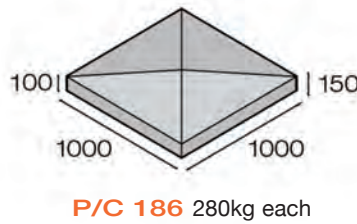
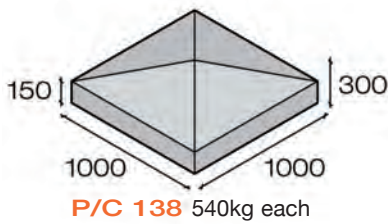
## PIER COPING



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## PIER COPING continued

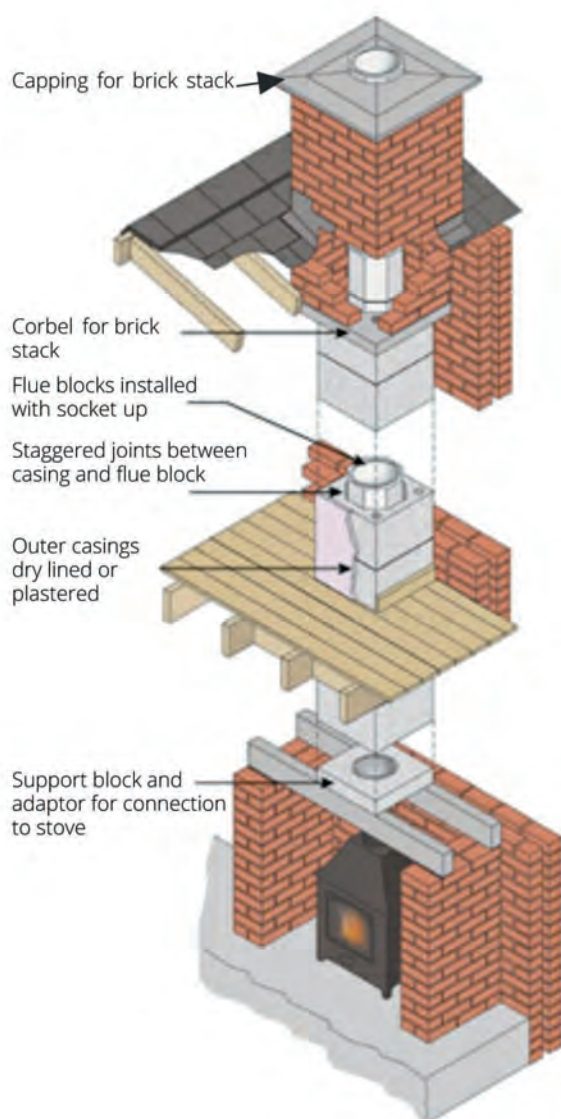


Other sizes available -  
contact Killeshal 057 9353018

## CHIMNEY SYSTEMS

In addition to our Chimney Flue Gatherings and Chimney Caps, KPC also supply complete Chimney Systems from leading brands, Anki and Schiedel.

### Isokern from Anki with natural insulating properties of pumice



Isokern products can be used for new chimneys and for refurbishing existing chimneys. The Isokern chimney systems provide a lightweight, easily installed and versatile chimney which can be used internally or externally. They are suitable for use with burning appliances in new and refurbished projects. They are ideal for Masonry, Timber Frame and Steel Frame construction. Isokern chimneys have been installed in Europe for over 60 years.

### Schiedel Chimney System Modular 3-layer insulated chimney system



- Design for speedy construction
- Suitable for timber frame, steel frame and masonry construction
- Modular units for easy assembly on site
- Suitable for all fuels- gas, oil, wood and solid fuels
- Superior insulation

Schiedel is Europe's largest supplier of chimney systems and is part of Lafarge Roofing. In keeping with the standards expected from such a prestigious pedigree, the group is certified to EN ISO 9001.

The Schiedel Swift is ideal for Open Fires, Stoves, Cookers and Central Heating Boilers.

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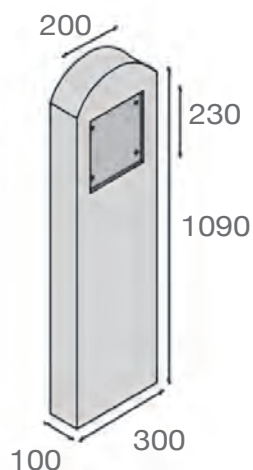


## MARKER POSTS

- Marker posts are placed at or behind location points for services such as AV/SV, hydrant chambers, water and gas chambers, electric cable junctions and field markers as markers for emergency services or service engineers.
- Buried hazard warning marker slabs which shadow electricity lines and gas pipes, helping to avoid breaches and health and safety incidents.

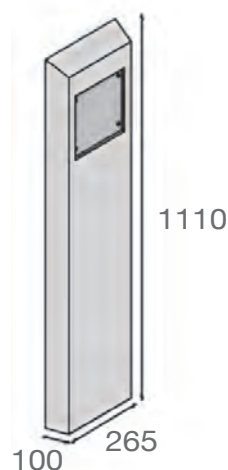
**Ref: M/POST 101 [80kg each]**  
**Round Top x 100**

300x100x1090mm  
 Plates, see below



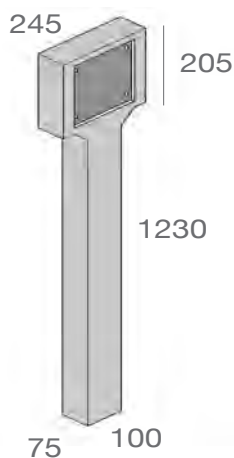
**Ref: M/POST 102 [70kg each]**  
**Flat Top**

265x100x1110mm  
 Plates, see below



**Ref: M/POST 116 [30kg each]**  
**Lollipop**

100x75x1230mm  
 Plates, see below

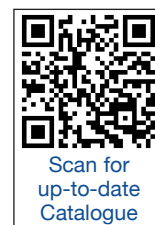


## PLASTIC MARKER PLATES

\*Made to suit each individual requirements



\*Full range of plates available



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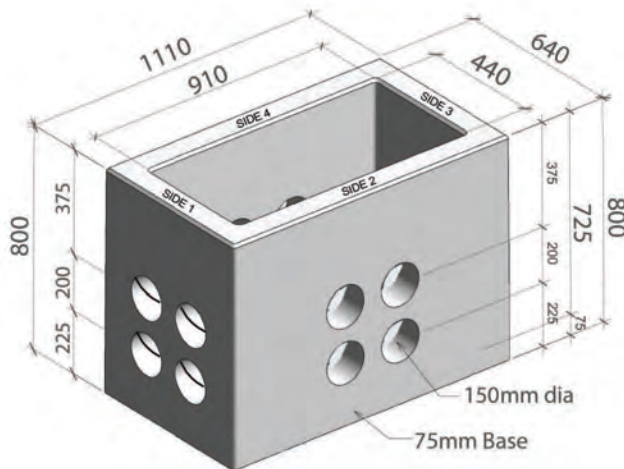
## STANDARDS NOTICE:

Killeshal Precast Services Boxes are manufactured to comply with EN1917:2002 / AC:2008 Concrete manholes and inspection chambers un-reinforced, steel fibre and reinforced.

Concrete lids are available for all boxes. Cast iron lids are available on some boxes, where indicated.

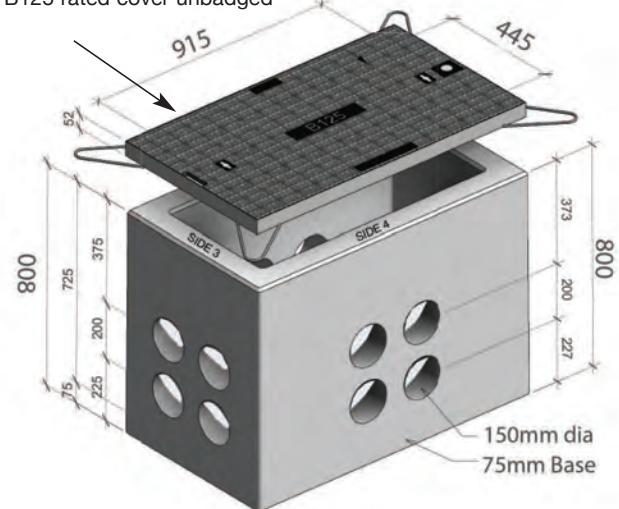
Contact our technical sales team for further information.

### JUNCTION BOX 3 [498kg] - with 75mm base and holes on 4 sides



#### COVER AND FRAME DETAILS KPC-B-JB 4 | 63kg

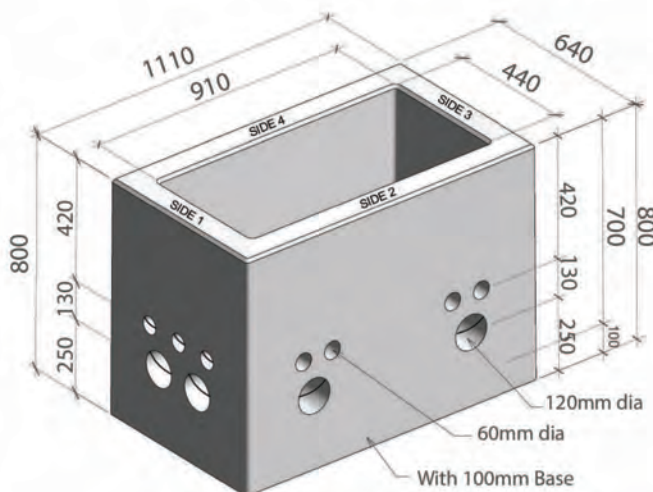
- Material - B125 ductile iron cover in a galvanised steel frame
- Single cover: 915 x 445 x 52mm
- Locking arrangement
- B125 rated cover unbadged



#### JUNCTION BOX 3 DETAILS | 498kg

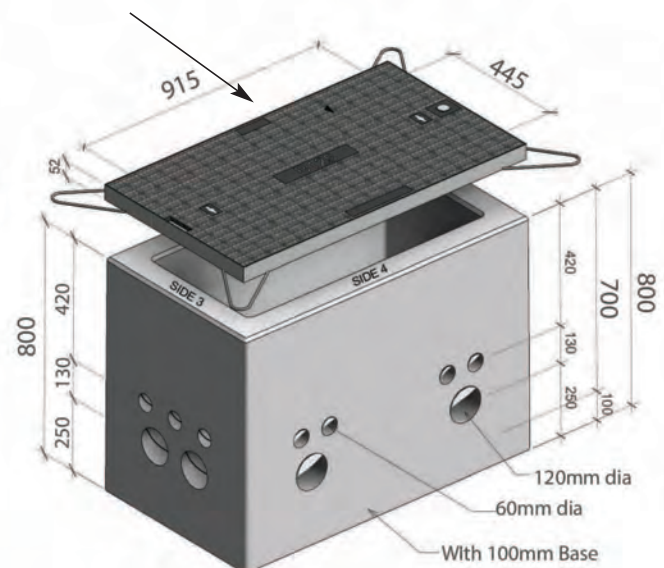
- Concrete Chamber
- External dimensions: 1110mm long x 640mm wide x 800mm deep
- Internal dimensions: 910mm long x 440mm wide x 725mm deep with 75mm base

### JUNCTION BOX 4 (Eir) [688kg] - with 100mm base and holes on 4 sides



#### COVER AND FRAME DETAILS KPC-B-JB 4 | 63kg

- Material - B125 ductile iron cover in a galvanised steel frame
- Single cover: 915 x 445 x 52mm
- Locking arrangement
- B125 rated cover unbadged



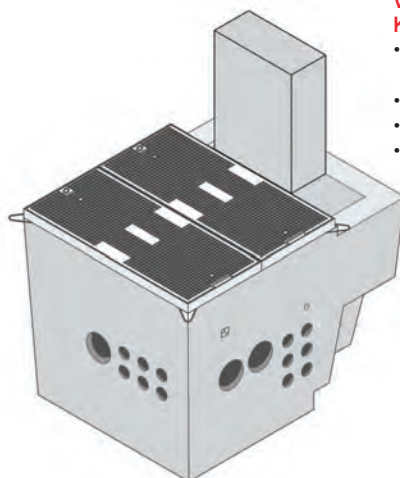
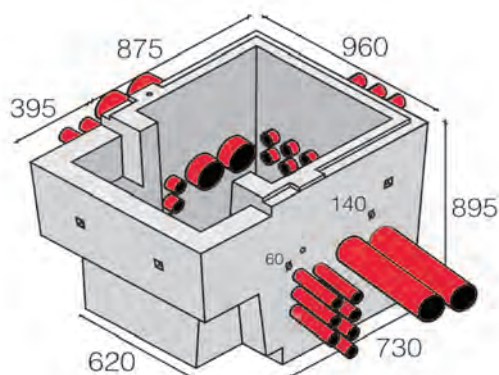
#### JUNCTION BOX 4 DETAILS | 688kg

- Concrete Chamber
- External dimensions: 1110mm long x 640mm wide x 800mm deep
- Internal dimensions: 910mm long x 440mm wide x 700mm deep with 100mm base

DOP's available on all Junction Boxes

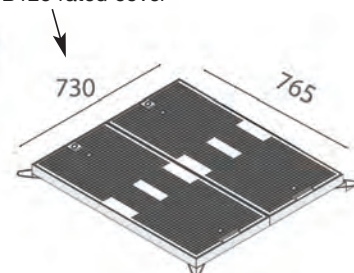


## ESB MINI PILLAR JUNCTION BOX 5 VC2 [1066kg]



### VC2 COVER AND FRAME DETAILS KPC-B-VC 2 | 103kg

- Material - B125 ductile iron cover in a galvanised steel frame
- Clear ope: 765 x 730 x 50mm
- Locking arrangement
- B125 rated cover



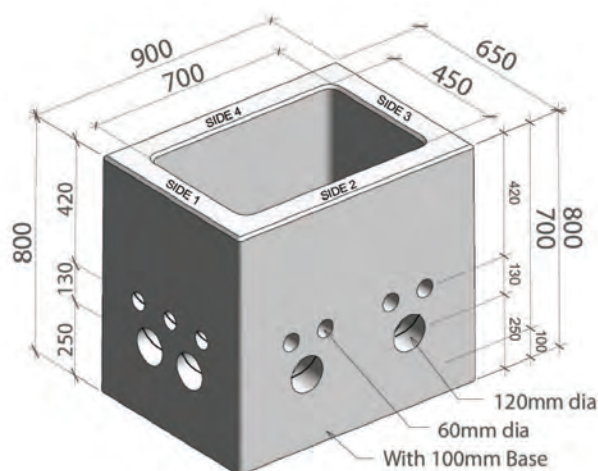
### JUNCTION BOX 5 960 x 1270 x 895mm | 1066kg

- Reinforced walls
- ESB approved
- 100mm shoulder to facilitate increasing the depth
- Drainage Sump
- Easily manoeuvred
- Multiple cable entry points
- Integrated, reinforced base



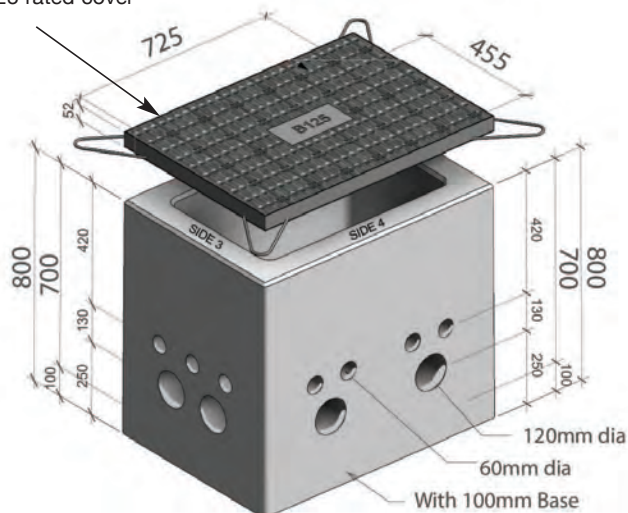
Holes can be adjusted to suit requirements.  
Cast iron lid available on this model.  
Colour may vary, depending on application.

## JUNCTION BOX 24 (Virgin Media) [591kg] - with 100mm base and holes on 4 sides



### COVER AND FRAME DETAILS KPC-B-Virgin 725x445 | 32kg

- Material - B125 ductile iron cover in a galvanised steel frame
- Single cover Internal dimensions: 725 x 455 x 52mm
- Locking arrangement
- B125 rated cover



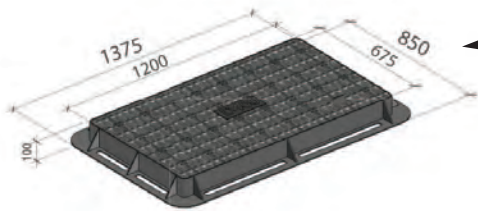
### JUNCTION BOX 24 DETAILS | 591kg

- Concrete Chamber
- External dimensions: 900mm long x 650mm wide x 800mm deep
- Internal dimensions: 700mm long x 450mm wide x 700mm deep with 100mm base

DOP's available on all Junction Boxes

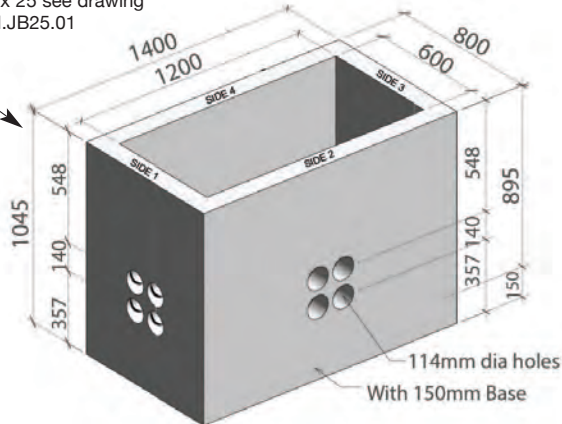
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## JUNCTION BOX 25 [1260kg] - with 150mm base and holes on 4 sides



### JUNCTION BOX 25 DETAILS | 1260kg

- Concrete Chamber
- External dimensions: 1400mm long x 800mm wide x 1045mm deep
- Internal dimensions: 1200mm long x 600mm wide x 895mm deep with 150mm base
- For all information and dimensions relating to Junction Box 25 see drawing ref: KPC.CH.JB25.01

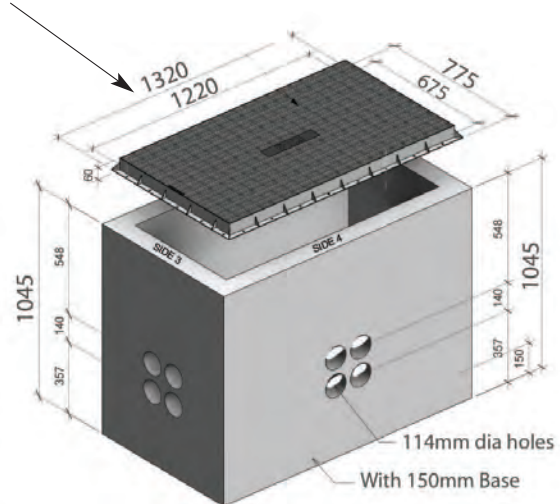


### COVER AND FRAME DETAILS D400 KPC-D-1220x670mm | 160kg

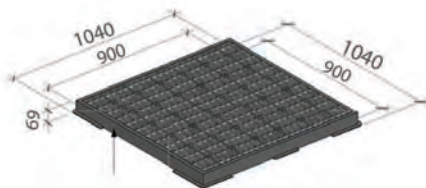
- Material - D400 ductile iron cover and frame
- Multi Covers
- External dimensions: 1375mm long x 850mm wide x 100mm deep
- Internal dimensions: 1200mm long x 675mm wide x 100mm deep
- D400 rated cover

### COVER AND FRAME DETAILS B125 KPC-B-1220x670mm | 90kg

- Material - B125 ductile iron cover and frame
- Multi Covers
- External dimensions: 1320mm long x 775mm wide x 60mm deep
- Internal dimensions: 1220mm long x 675mm wide x 60mm deep
- B125 rated cover

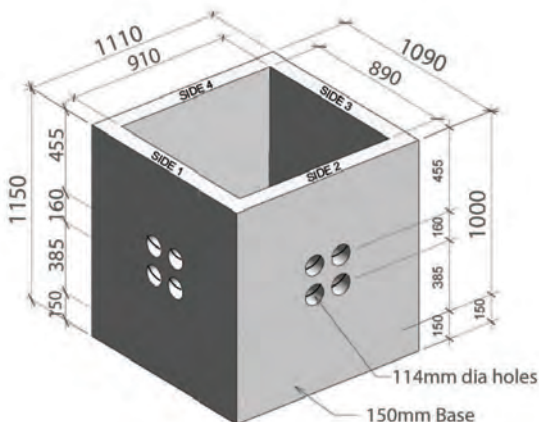


## JUNCTION BOX 26 (Eir JB4a) [1395kg] - with 150mm base and holes on 3 sides



### COVER AND FRAME DETAILS B125 KPC-D-900x900mm | 90kg

- Material - B125 ductile iron cover and frame
- Single cover
- External dimensions = 1040 long x 1040mm wide x 69mm deep
- Internal dimensions = 900mm long x 900mm wide x 69mm deep
- B125 rated cover unbadged

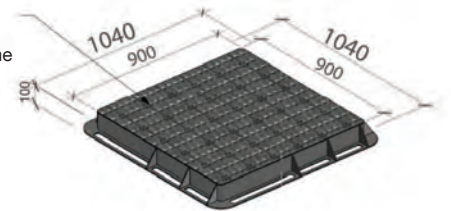


### JUNCTION BOX 26 DETAILS | 1395kg

- Concrete Chamber
- External dimensions: 1110mm long x 1090mm wide x 1150mm deep
- Internal dimensions: 910mm long x 890mm wide x 1000mm deep with 150mm base
- For all information and dimensions relating to the Junction Box 26 see drawing ref: KPC.CH.JB26.01

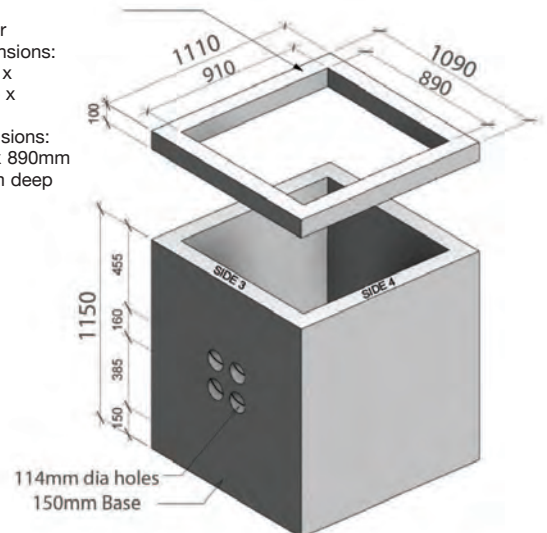
### COVER AND FRAME DETAILS D400 KPC-D-900x900mm | 140kg

- Material - ductile iron cover and frame
- Double Cover 1040 x 1040 x 100mm
- Internal dimensions 900 x 900 x 100mm



### JUNCTION BOX 502 - Riser to suit JB26

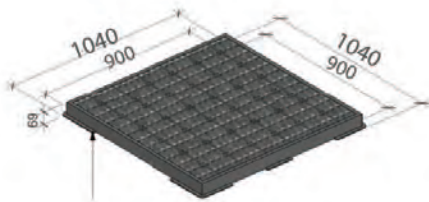
- Concrete Riser
- External dimensions: 1110mm long x 1090mm wide x 100mm deep
- Internal dimensions: 910mm long x 890mm wide x 100mm deep



DOP's available on all  
Junction Boxes



## JUNCTION BOX 27 [1125kg] - with 100mm base and holes on 3 sides

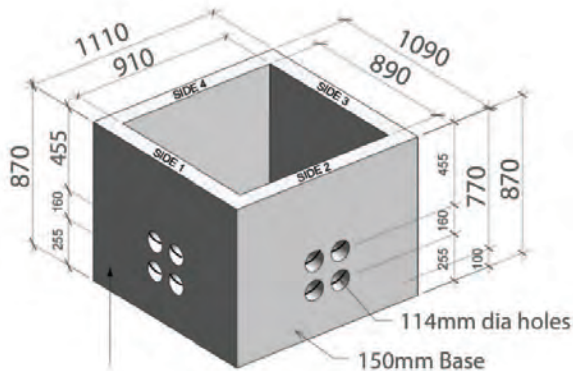


### COVER AND FRAME DETAILS KPC-D-900x900mm | 140kg

- Material - ductile iron cover and frame
- Double Cover 1040 x 1040 x 100mm
- Internal dimensions 900 x 900mm

### COVER AND FRAME DETAILS B125 KPC-BD-900x900mm | 90kg

- Material - B125 ductile iron cover and frame
- Single cover
- External dimensions = 1040 long x 1040mm wide x 69mm deep
- Internal dimensions = 900mm long x 900mm wide x 69mm deep
- B125 rated cover unbadged

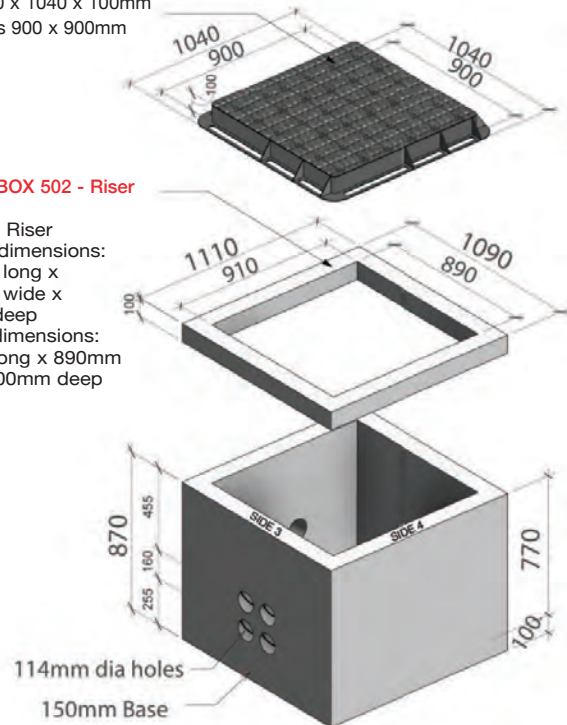


### JUNCTION BOX 27 DETAILS | 1125kg

- Concrete Chamber
- External dimensions: 1110mm long x 1090mm wide x 870mm deep
- Internal dimensions: 910mm long x 890mm wide x 770mm deep with 100mm base
- For all information and dimensions relating to the Junction Box 27 see drawing ref: KPC.CH.JB27.01

### JUNCTION BOX 502 - Riser to suit JB27

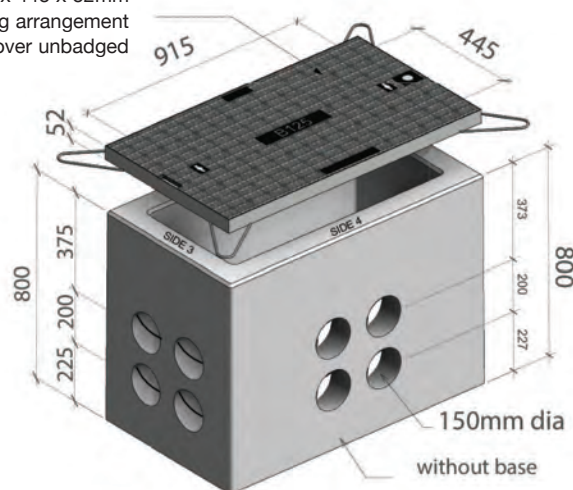
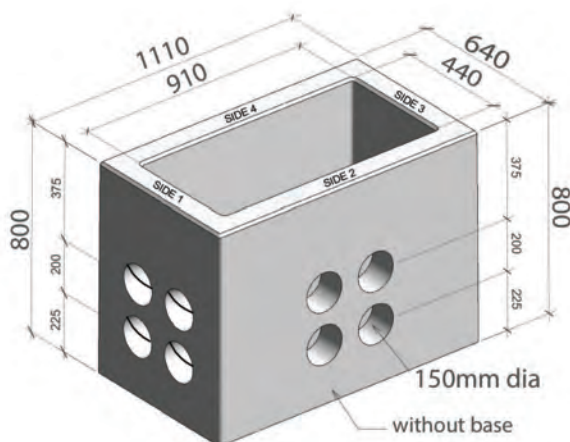
- Concrete Riser
- External dimensions: 1110mm long x 1090mm wide x 100mm deep
- Internal dimensions: 910mm long x 890mm wide x 100mm deep



## JUNCTION BOX 28 [590kg] - without base and holes on 4 sides

### COVER AND FRAME DETAILS. KPC-B-JB4 | 63kg

- Material - B125 ductile iron cover in a galvanised steel frame
- Single Cover 915 x 445 x 52mm
- Locking arrangement
- B125 rated cover unbadged



### JUNCTION BOX 28 DETAILS | 590kg

- Concrete Chamber
- External dimensions: 1110mm long x 640mm wide x 800mm deep
- Internal dimensions: 910mm long x 440mm wide x 800mm deep without base
- For all information and dimensions relating to the Junction Box 28 see drawing ref: KPC.CH.JB28.01

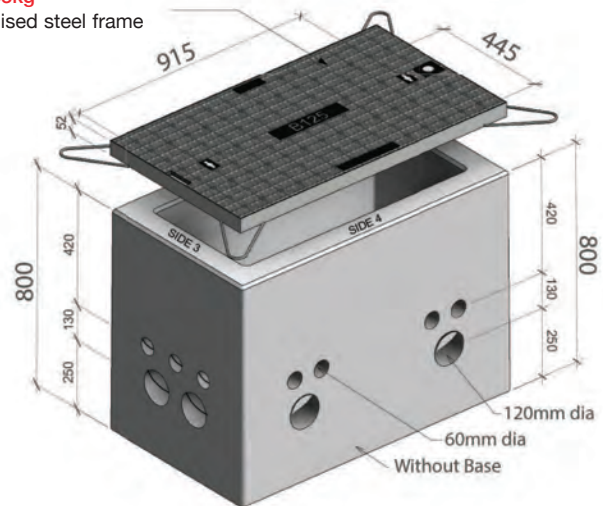
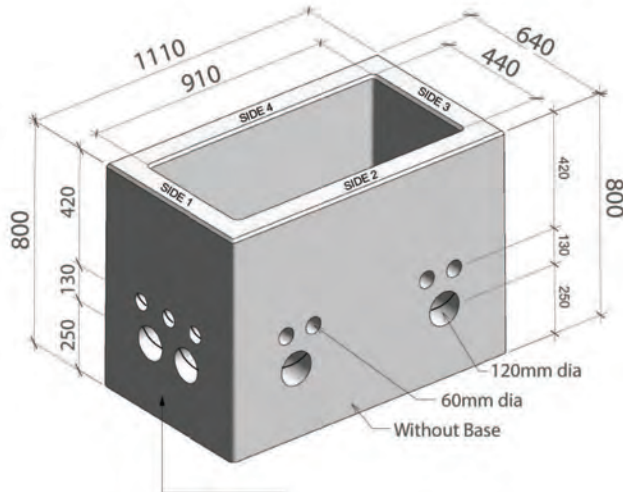
DOP's available on  
all Junction Boxes

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## JUNCTION BOX 29 [592kg] - without base and holes on 4 sides

### COVER AND FRAME DETAILS. KPC-B-JB4 | 63kg

- Material - B125 ductile iron cover in a galvanised steel frame
- Single Cover 915 x 445 x 52mm
- Locking arrangement
- B125 rated cover unbadged



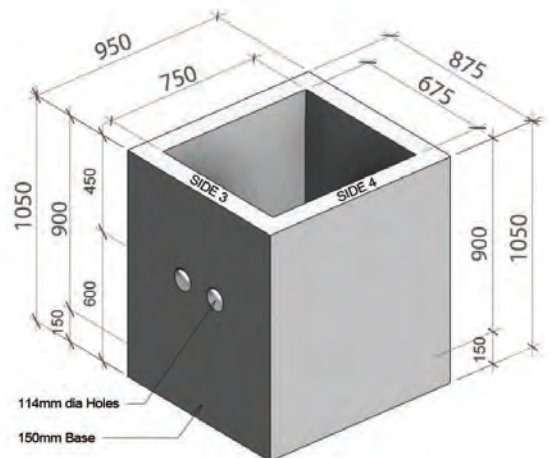
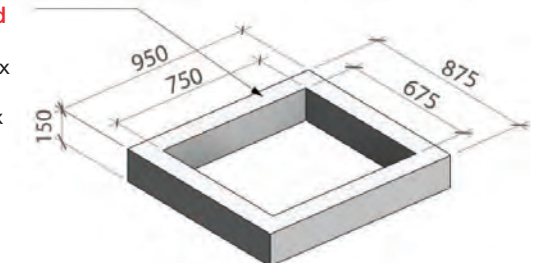
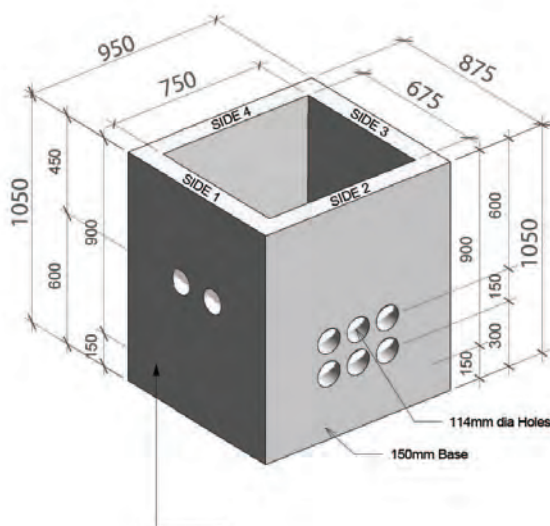
### JUNCTION BOX 29 DETAILS | 592kg

- Concrete Chamber
- External dimensions: 1110mm long x 640mm wide x 800mm deep
- Internal dimensions: 910mm long x 440mm wide x 800mm deep without base
- For all information and dimensions relating to the Junction Box 29 see drawing ref: KPC.CH.JB29.01

## JUNCTION BOX 30 [1000kg] - with 150mm base and holes on 3 sides

### JUNCTION BOX 501 - Riser to suit JB30 - No Lid

- Concrete Riser
- External dimensions: 950mm long x 875mm wide x 150mm deep
- Internal dimensions: 750mm long x 675mm wide x 150mm deep



### JUNCTION BOX 30 DETAILS | 1000kg

- Concrete Chamber
- External dimensions: 950mm long x 875mm wide x 1050mm deep
- Internal dimensions: 750mm long x 675mm wide x 900mm deep - with 150mm base
- For all information and dimensions relating to the Junction Box 30 see drawing ref: KPC.CH.JB30.01

DOP's available  
on all Junction  
Boxes

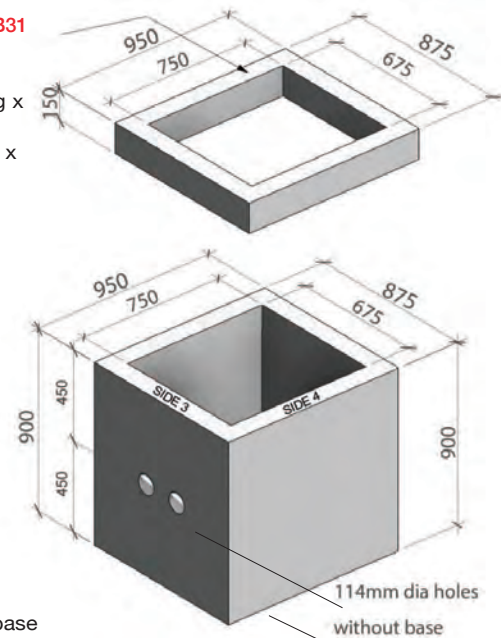
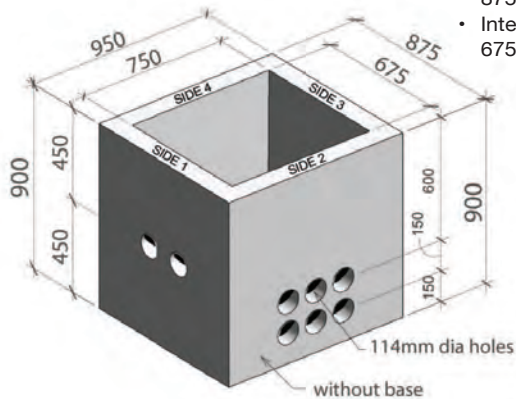
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## JUNCTION BOX 31 [678kg] - without base and holes on 3 sides

### JUNCTION BOX 501 - Riser to suit JB31 No Lid

- Concrete Riser
- External dimensions: 950mm long x 875mm wide x 150mm deep
- Internal dimensions: 750mm long x 675mm wide x 150mm deep



### JUNCTION BOX 31 DETAILS | 678kg

- Concrete Chamber
- External dimensions: 950mm long x 875mm wide x 900mm deep
- Internal dimensions: 750mm long x 675mm wide x 900mm deep - with 150mm base
- For all information and dimensions relating to the Junction Box 31 see drawing ref: KPC.CH.JB31.01

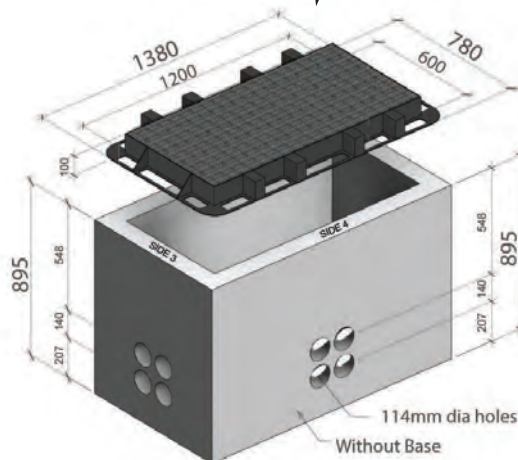
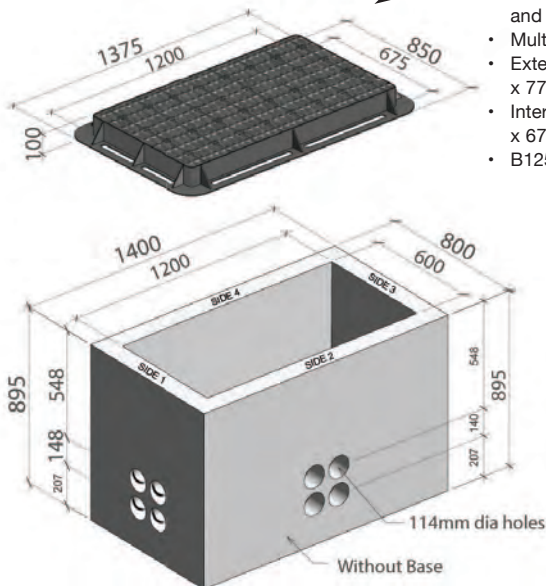
## JUNCTION BOX 33 [820kg] - without base and holes on 4 sides

### COVER AND FRAME DETAILS B125 KPC-B-1220x675mm | 90kg

- Material - B125 ductile iron cover and frame
- Multi Covers
- External dimensions: 1320mm long x 775mm wide x 60mm deep
- Internal dimensions: 1220mm long x 675mm wide x 60mm deep
- B125 rated cover

### COVER AND FRAME DETAILS D400 KPC-D-1220x675mm | 160kg

- Material - D400 ductile iron cover and frame
- Multi Covers
- External dimensions: 1375mm long x 850mm wide x 100mm deep
- Internal dimensions: 1200mm long x 675mm wide x 100mm deep
- D400 rated cover



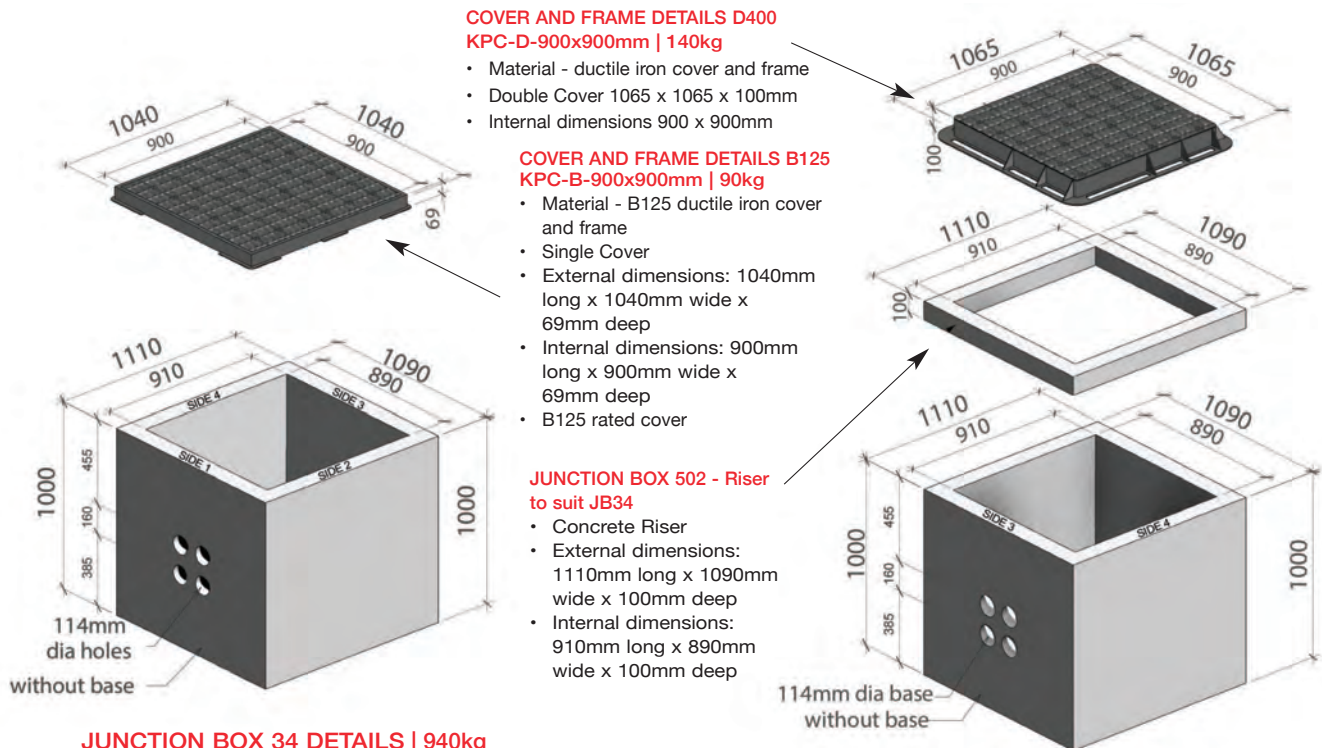
### JUNCTION BOX 33 DETAILS | 820kg

- Concrete Chamber
- External dimensions: 1400mm long x 800mm wide x 895mm deep
- Internal dimensions: 1200mm long x 600mm wide x 895mm deep - without a base
- For all information and dimensions relating to the Junction Box 33 see drawing ref: KPC.CH.JB33.01

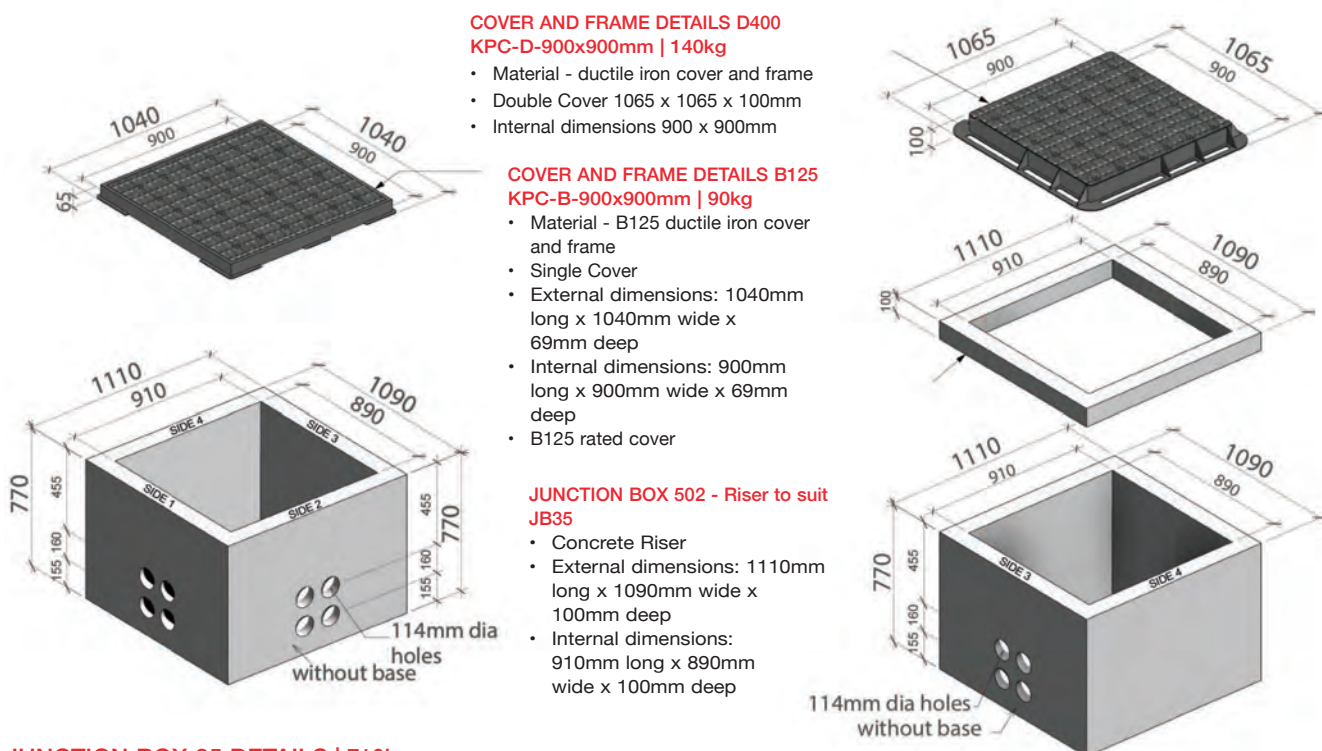
DOP's available on all  
Junction Boxes



## JUNCTION BOX 34 [940kg] - without base and holes on 2 sides



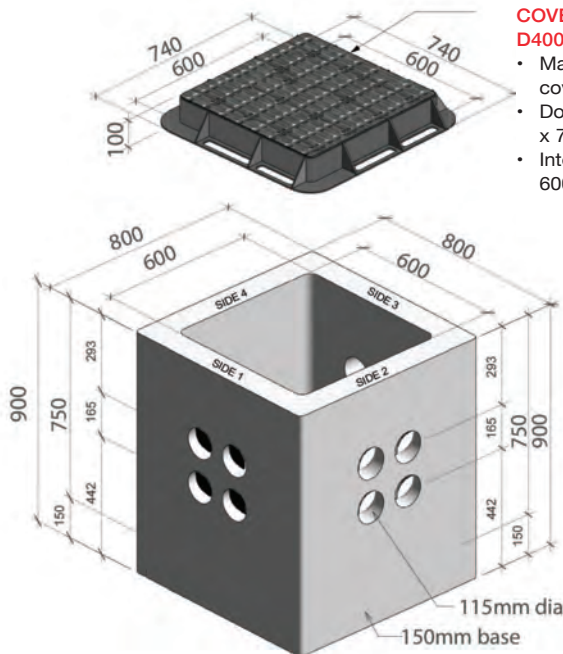
## JUNCTION BOX 35 [710kg] - without base and holes on 3 sides (710kg)



DOP's available on all  
Junction Boxes



## JUNCTION BOX 36 [705kg] - with base and holes on 3 sides

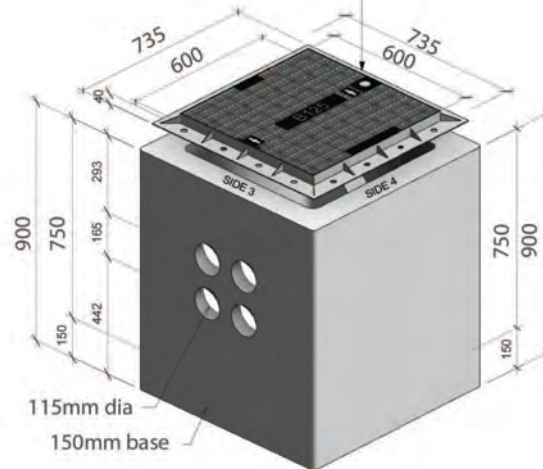


### COVER AND FRAME DETAILS D400 KPC-D-600x600mm | 65kg

- Material - ductile iron cover and frame
- Double Cover: 740mm x 740mm x 100mm
- Internal dimensions: 600mm x 600mm

### COVER AND FRAME DETAILS B125 KPC-B-600x600mm | 40kg

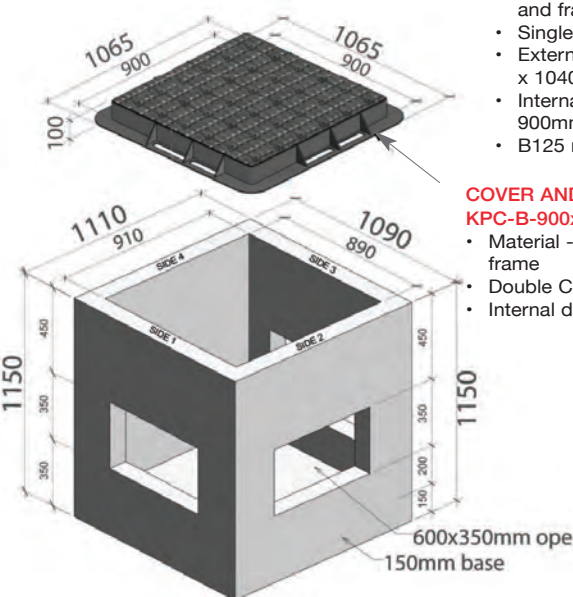
- Material - B125 ductile iron cover and frame
- Single Cover
- External dimensions: 735mm long x 735mm wide x 40mm deep
- Internal dimensions: 600mm long x 600mm wide x 40mm deep
- B125 rated cover



### JUNCTION BOX 36 DETAILS | 705kg

- Concrete Chamber
- External dimensions: 800mm long x 800mm wide x 900mm deep
- Internal dimensions: 600mm long x 600mm wide x 900mm deep - with 150mm base
- For all information and dimensions relating to the Junction Box 36 see drawing ref: KPC.CH.JB36.01

## JUNCTION BOX 37 [1245kg] - with base and ope's on 3 sides



### COVER AND FRAME DETAILS B125 KPC-D-900x900mm | 90kg

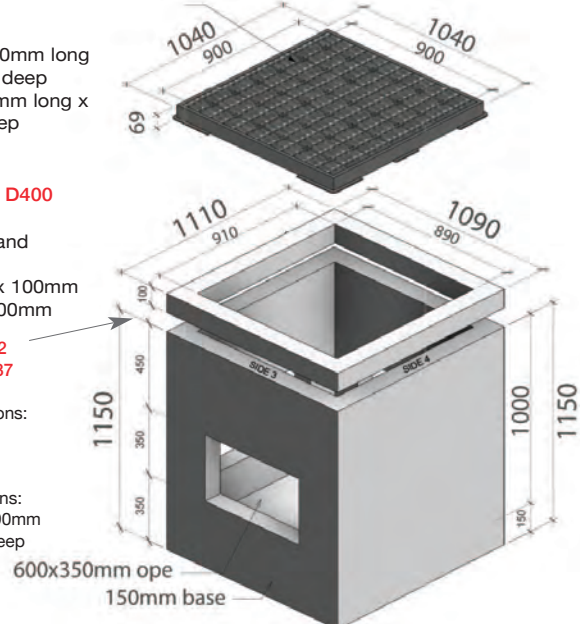
- Material - B125 ductile iron cover and frame
- Single Cover
- External dimensions: 1040mm long x 1040mm wide x 69mm deep
- Internal dimensions: 900mm long x 900mm wide x 69mm deep
- B125 rated cover

### COVER AND FRAME DETAILS D400 KPC-B-900x900mm | 140kg

- Material - ductile iron cover and frame
- Double Cover: 1065 x 1065 x 100mm
- Internal dimensions: 900 x 900mm

### JUNCTION BOX 502 RISER TO SUIT JB37

- Concrete Riser
- External dimensions: 1110mm long x 1090mm wide x 100mm deep
- Internal dimensions: 910mm long x 890mm wide x 100mm deep



### JUNCTION BOX 37 DETAILS | 1245kg

- Concrete Chamber
- External dimensions: 1110mm long x 1090mm wide x 1150mm deep
- Internal dimensions: 910mm long x 890mm wide x 1000mm deep - with 150mm base
- For all information and dimensions relating to the Junction Box 37 see drawing ref: KPC.CH.JB37.01

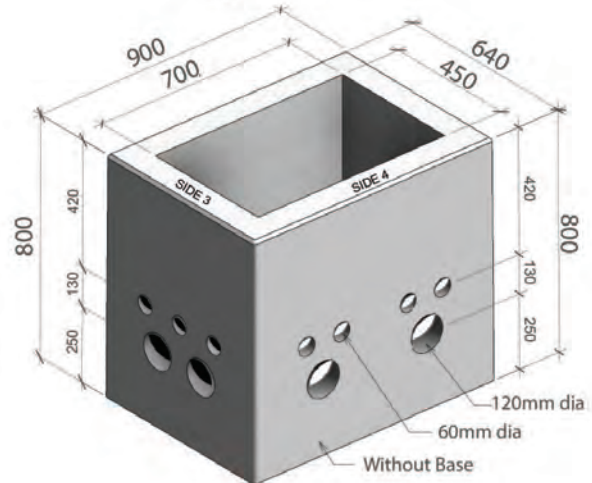
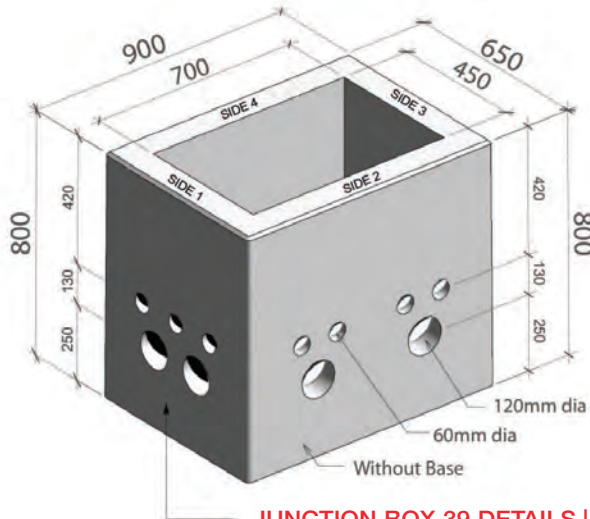
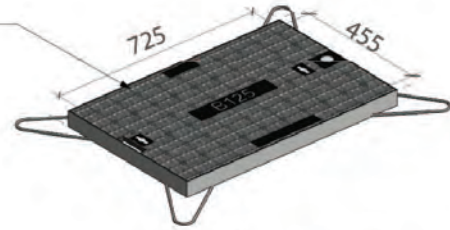
DOP's available on all  
Junction Boxes

The information contained in the brochure was up to date at the time of going to print. Photographs, drawings, sizes and reference numbers are given as an indication only and can be changed without notice. Killeshal Precast Concrete Ltd reserves the right to modify product specification without notice.

## JUNCTION BOX 39 (Virgin Media) [490kg] - without base and holes on 4 sides

### COVER AND FRAME DETAILS. KPC-B-Virgin 725x445mm | 33kg

- Material - B125 ductile iron cover in a galvanised steel frame
- Single cover: 725 x 455 x 52mm
- Locking arrangement (Patented design)
- Sealed keyholes
- Can be supplied unlocked
- B125 rated cover unbadged - see specification for more info.



### JUNCTION BOX 39 DETAILS | 490kg

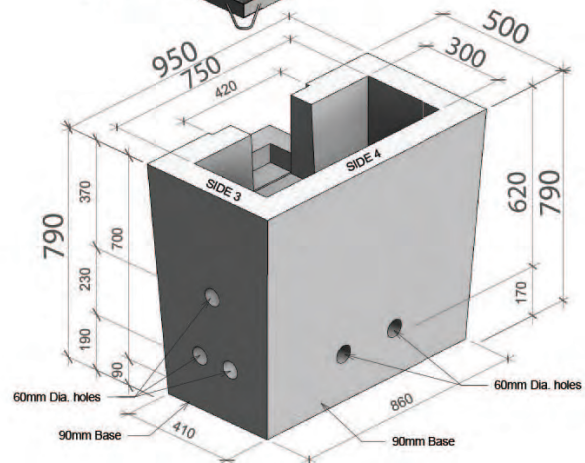
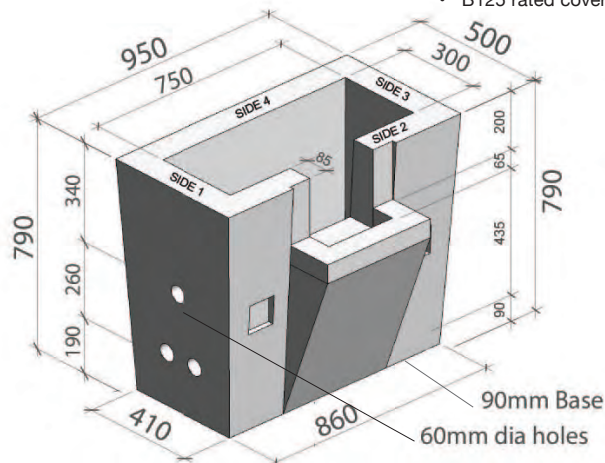
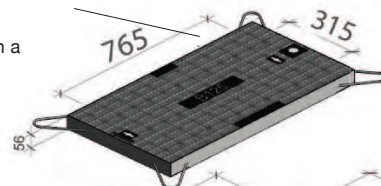
- Concrete Chamber
- External dimensions: 900mm long x 650mm wide x 800mm deep
- Internal dimensions: 700mm long x 450mm wide x 800mm deep - without base
- For all information and dimensions relating to the Junction Box 39 see drawing ref: KPC.CH.JB39.01

## JUNCTION BOX 40 VC1 (ESB Micro Pillar) [480kg] - with base

### COVER AND FRAME DETAILS B125

#### KPC-B-VC1 | 52kg

- Material - B125 ductile iron cover in a galvanised steel frame
- Single cover: 765 x 315 x 56mm
- Locking arrangement
- B125 rated cover



### JUNCTION BOX 40 DETAILS | 480kg

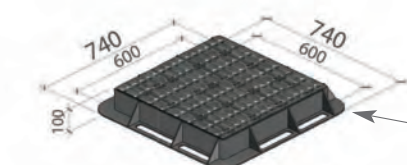
- Concrete Chamber
- External dimensions: 950mm long x 500mm wide x 790mm deep
- Internal dimensions: 750mm long x 300mm wide x 700mm deep - with 90mm base
- For all information and dimensions relating to the Junction Box 40 see drawing ref: KPC.CH.JB40.01

DOP's available on all  
Junction Boxes

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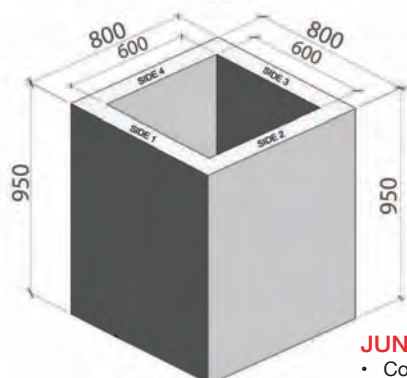


## JUNCTION BOX 45 [610kg] - with no base



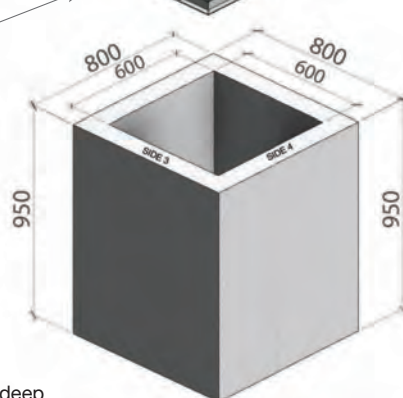
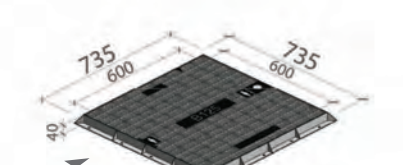
### COVER AND FRAME DETAILS D400 KPC-D-600x600mm | 65kg

- Material - ductile iron cover and frame
- Double Cover: 740 x 740 x 100mm
- Internal dimensions: 600 x 600mm



### COVER AND FRAME DETAILS B125 KPC-B-600x600mm | 40kg

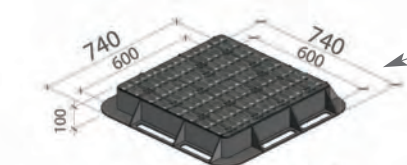
- Material - B125 ductile iron cover and frame
- Double Cover
- External dimensions: 735mm long x 735mm wide x 40mm deep
- Internal dimensions: 600mm long x 600mm wide x 40mm deep
- B125 rated cover



### JUNCTION BOX 45 DETAILS | 610kg

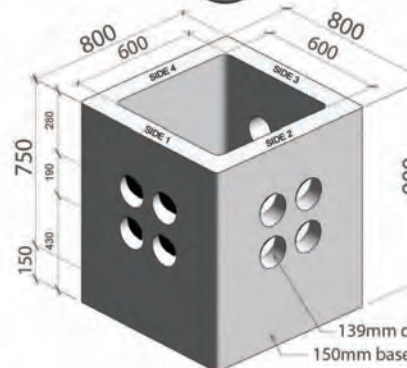
- Concrete Chamber
- External dimensions: 800mm long x 800mm wide x 950mm deep
- Internal dimensions: 600mm long x 600mm wide x 950mm deep - without a base
- For all information and dimensions relating to the Junction Box 45 see drawing ref: KPC.CH.JB45.01

## JUNCTION BOX 59 [690kg] - with base and holes on 3 sides



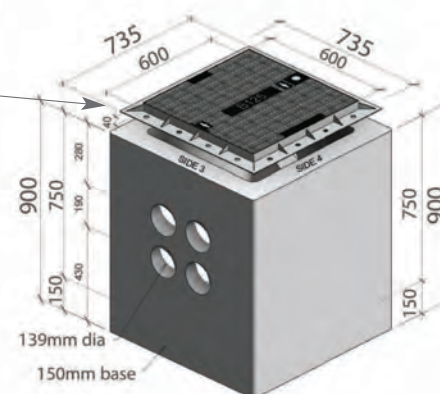
### COVER AND FRAME DETAILS D400 KPC-D-600x600mm | 65kg

- Material - ductile iron cover and frame
- Double Cover: 740 x 740 x 100mm
- Internal dimensions: 600 x 600mm



### COVER AND FRAME DETAILS B125 KPC-B-600x600mm | 40kg

- Material - B125 ductile iron cover and frame
- Single Cover
- External dimensions: 735mm long x 735mm wide x 40mm deep
- Internal dimensions: 600mm long x 600mm wide x 40mm deep
- B125 rated cover

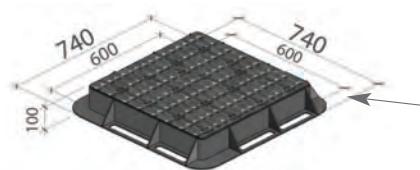


### JUNCTION BOX 59 DETAILS | 690kg

- Concrete Chamber
- External dimensions: 800mm long x 800mm wide x 900mm deep
- Internal dimensions: 600mm long x 600mm wide x 900mm deep - with 150mm base
- For all information and dimensions relating to the Junction Box 59 see drawing ref: KPC.CH.JB59.01

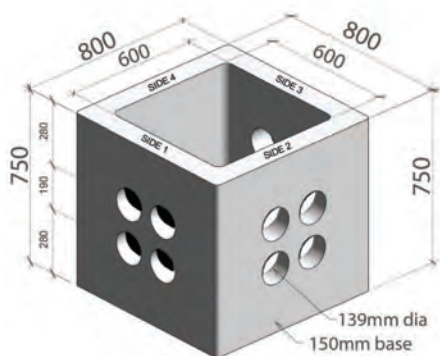


## JUNCTION BOX 60 [735kg] - with no base and holes on 3 sides



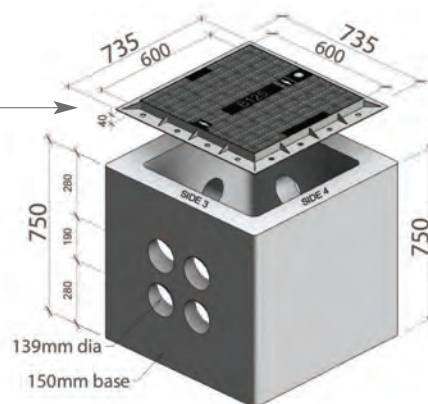
### COVER AND FRAME DETAILS D400 KPC-D-600x600mm | 65kg

- Material - ductile iron cover and frame
- Double Cover: 740 x 740 x 100mm
- Internal dimensions: 600 x 600mm



### COVER AND FRAME DETAILS B125 KPC-B-600x600mm | 40kg

- Material - B125 ductile iron cover and frame
- Single Cover
- External dimensions: 735mm long x 735mm wide x 40mm deep
- Internal dimensions: 600mm long x 600mm wide x 40mm deep
- B125 rated cover

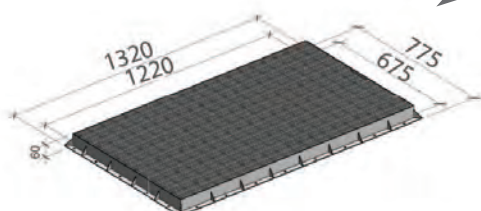


### JUNCTION BOX 60 DETAILS | 735kg

- Concrete Chamber
- External dimensions: 800mm long x 800mm wide x 750mm deep
- Internal dimensions: 600mm long x 600mm wide x 750mm deep - with 150mm base
- For all information and dimensions relating to the Junction Box 60, see drawing ref: KPC.CH.JB60.01

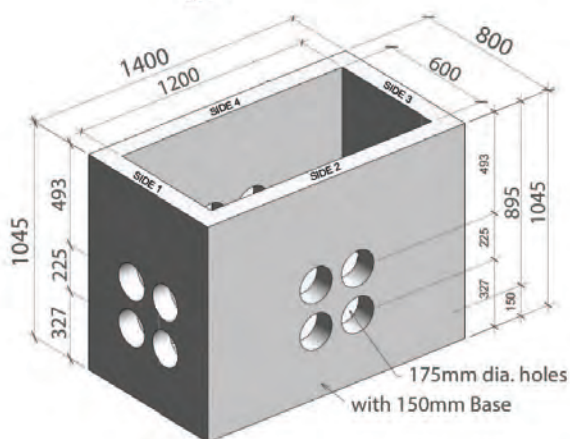
DOP's available on  
all Junction Boxes

## JUNCTION BOX 61 [1170kg] - with 150mm base and holes on 4 sides



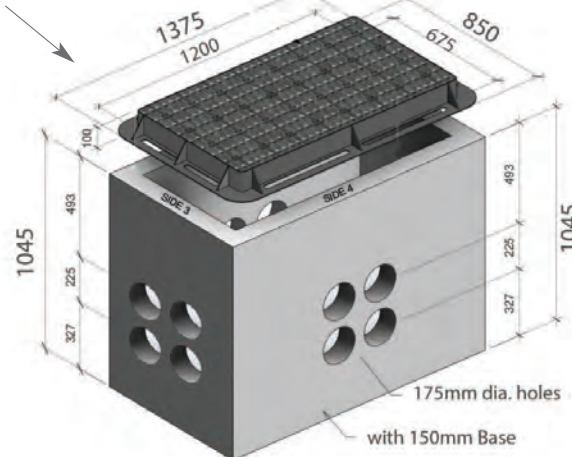
### COVER AND FRAME DETAILS B125 KPC-B-1220x670mm | 95kg

- Material - B125 ductile iron cover and frame
- Multi Covers
- External dimensions: 1320mm long x 775mm wide x 60mm deep
- Internal dimensions: 1220mm long x 675mm wide x 60mm deep
- B125 rated cover



### COVER AND FRAME DETAILS D400 KPC-D-1220x670mm | 155kg

- Material - D400 ductile iron cover and frame
- Multi Covers
- External dimensions: 1375mm long x 850mm wide x 100mm deep
- Internal dimensions: 1200mm long x 675mm wide x 100mm deep
- D400 rated cover



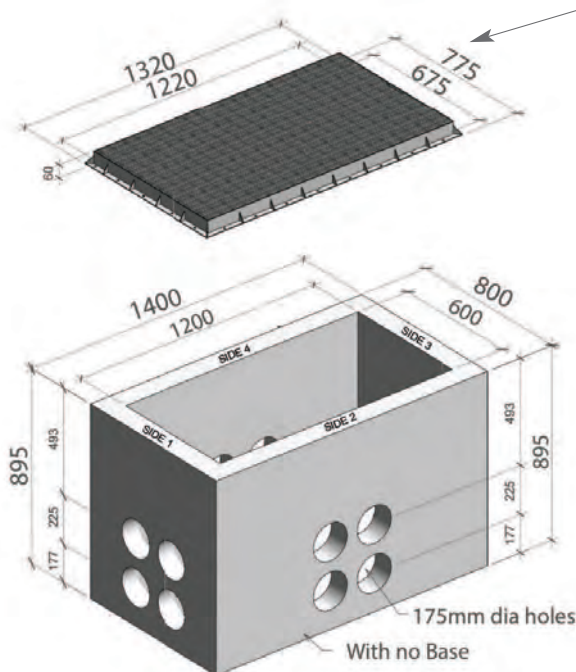
### JUNCTION BOX 61 DETAILS | 1170kg

- Concrete Chamber
- External dimensions: 1400mm long x 800mm wide x 1045mm deep
- Internal dimensions: 1200mm long x 600mm wide x 895mm deep - with 150mm base
- For all information and dimensions relating to the Junction Box 61 see drawing ref: KPC.CH.JB61.01

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## JUNCTION BOX 62 [770kg] - with no base and holes on 4 sides

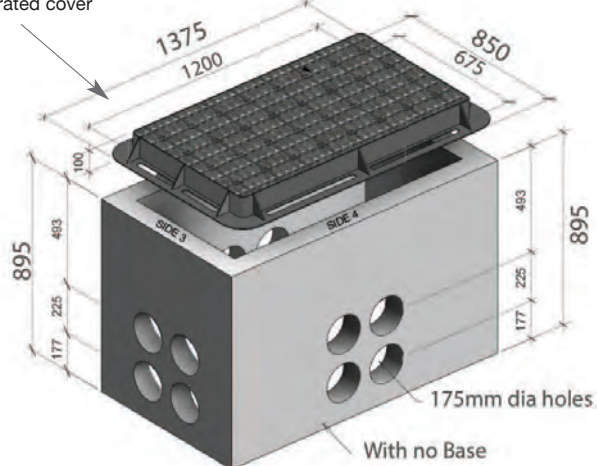


### COVER AND FRAME DETAILS B125 KPC-B-1220x670mm | 95kg

- Material - B125 ductile iron cover and frame
- Multi Covers
- External dimensions: 1320mm long x 775mm wide x 60mm deep
- Internal dimensions: 1220mm long x 675mm wide x 60mm deep
- B125 rated cover

### COVER AND FRAME DETAILS D400 KPC-D-1220x670mm | 155kg

- Material - D400 ductile iron cover and frame
- Multi Covers
- External dimensions: 1375mm long x 850mm wide x 100mm deep
- Internal dimensions: 1200mm long x 675mm wide x 100mm deep
- D400 rated cover

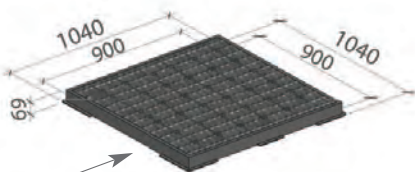


### JUNCTION BOX 62 DETAILS | 770kg

- Concrete Chamber
- External dimensions: 1400mm long x 800mm wide x 895mm deep
- Internal dimensions: 1200mm long x 600mm wide x 895mm deep - with no base
- For all information and dimensions relating to the Junction Box 62 see drawing ref: KPC.CH.JB62.01

DOP's available on all  
Junction Boxes

## JUNCTION BOX 63 [1330kg] - with 150mm base and holes on 3 sides

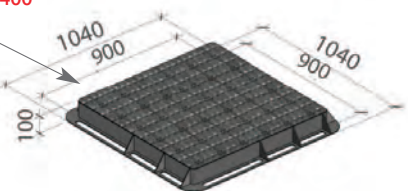


### COVER AND FRAME DETAILS B125 KPC-B-900x900mm | 90kg

- Material - B125 ductile iron cover and frame
- Single Cover
- External dimensions: 1040 x 1040 x 69mm deep
- Internal dimensions: 900 x 900 x 69mm deep
- B125 Rated Cover

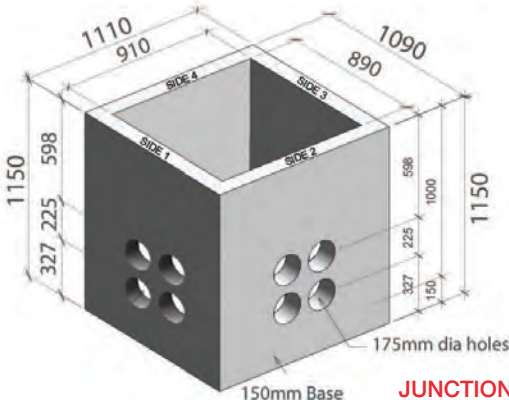
### COVER AND FRAME DETAILS D400 KPC-D-900x900mm | 140kg

- Material - D400 ductile iron cover and frame
- Double Cover: 1040 x 1040 x 100mm deep
- Internal dimensions: 900mm x 900mm



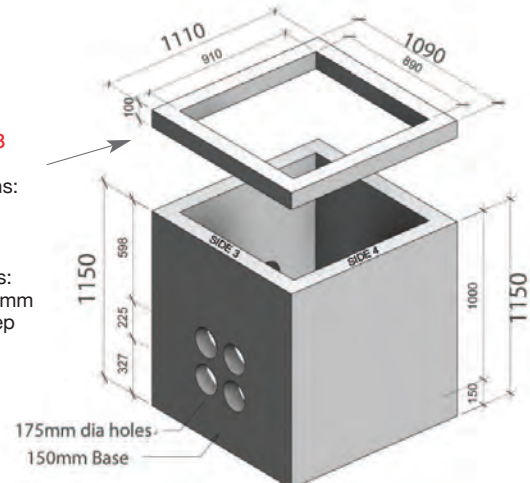
### JUNCTION BOX 502 RISER TO SUIT JB63

- Concrete Riser
- External dimensions: 1110mm long x 1090mm wide x 100mm deep
- Internal dimensions: 910mm long x 890mm wide x 100mm deep

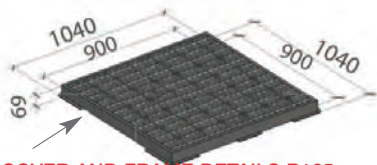


### JUNCTION BOX 63 DETAILS | 1330kg

- Concrete Chamber
- External dimensions: 1110mm long x 1090mm wide x 1150mm deep
- Internal dimensions: 910mm long x 890mm wide x 1000mm deep with 150mm base
- For all information and dimensions relating to the Junction Box 63 see drawing ref: KPC.CH.JB63.01

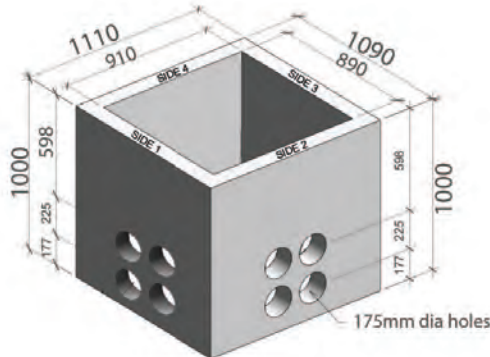


## JUNCTION BOX 64 [890kg] - with no base and holes on 3 sides



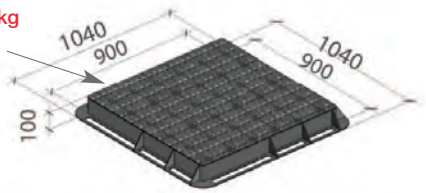
### COVER AND FRAME DETAILS B125 KPC-B-900x900mm | 90kg

- Material - B125 ductile iron cover and frame
- Single Cover
- External dimensions: 1040 long x 1040 wide x 69mm deep
- Internal dimensions: 900 long x 900 wide x 69mm deep
- B125 Rated Cover



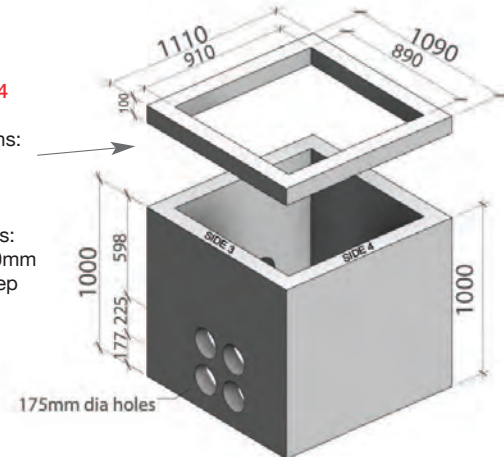
### COVER AND FRAME DETAILS D400 KPC-D-900x900mm | 140kg

- Material - D400 ductile iron cover and frame
- Double Cover: 1040 x 1040 x 100mm deep
- Internal dimensions: 900mm x 900mm



### JUNCTION BOX 502 RISER TO SUIT JB64

- Concrete Riser
- External dimensions: 1110mm long x 1090mm wide x 100mm deep
- Internal dimensions: 910mm long x 890mm wide x 100mm deep



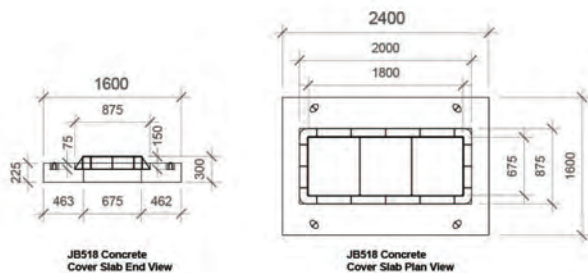
### JUNCTION BOX 64 DETAILS | 890kg

- Concrete Chamber
- External dimensions: 1110mm long x 1090mm wide x 1150mm deep
- Internal dimensions: 910mm long x 890mm wide x 1000mm deep with no base
- For all information and dimensions relating to the Junction Box 64 see drawing ref: KPC.CH.JB64.01

Can be manufactured with or without the cover and frame

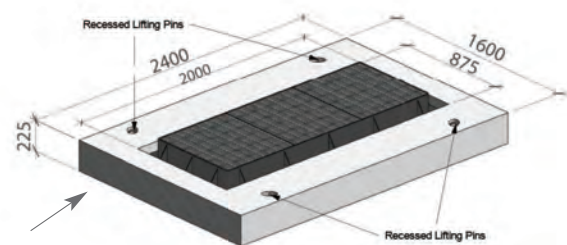
## JUNCTION BOX 65 [4195kg] - with 150mm base and holes on 3 sides

Can be made with or without ductile cover



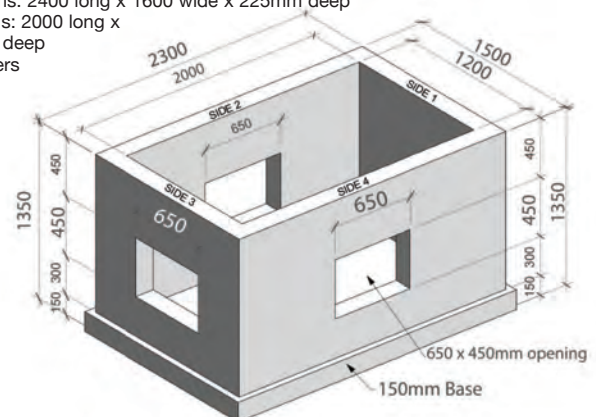
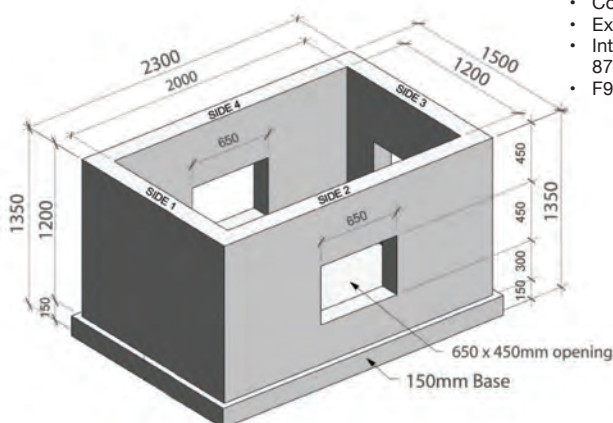
JB518 Concrete Cover Slab End View

JB518 Concrete Cover Slab Plan View



### JB518 CONCRETE COVER SLAB KPC-E

- Concrete Cover Slab
- External dimensions: 2400 long x 1600 wide x 225mm deep
- Internal dimensions: 2000 long x 1800 wide x 75mm deep
- F900 & E600 Covers



### JUNCTION BOX 65 DETAILS | 4195kg

- Concrete Chamber
- External dimensions: 2300mm long x 1500mm wide x 1350mm deep
- Internal dimensions: 2000mm long x 1200mm wide x 1200mm deep with 150mm base
- For all information and dimensions relating to the Junction Box 65 see drawing ref: KPC.CH.JB65.01

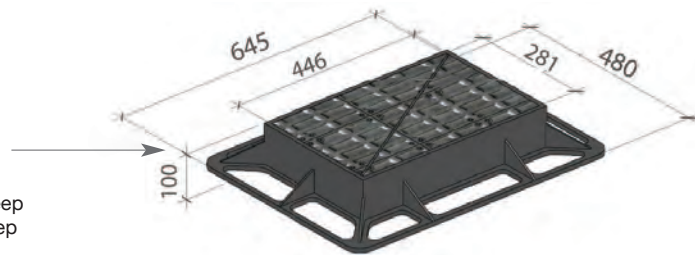
DOP's available on all Junction Boxes



## JUNCTION BOX 73 [74kg] - stop cock chamber - 215mm high

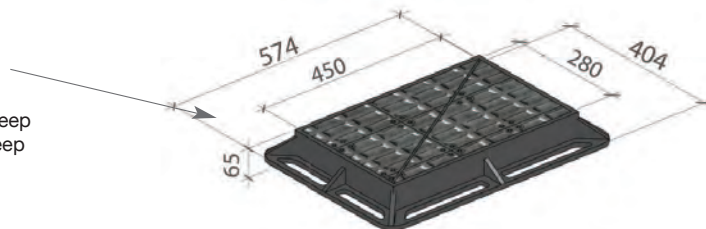
### COVER AND FRAME DETAILS D400 KPC-WW-D | 38kg

- Material - D400 ductile iron cover and frame
- Single Cover
- External dimensions: 645mm long x 480 wide x 100mm deep
- Internal dimensions: 446mm long x 281 wide x 100mm deep
- D400 Rated Cover



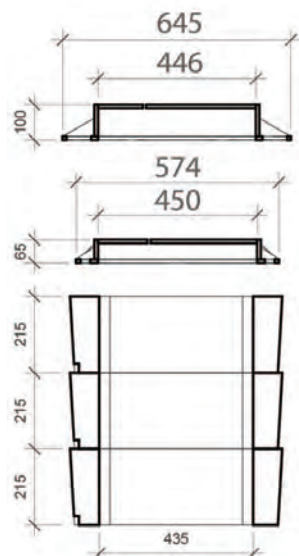
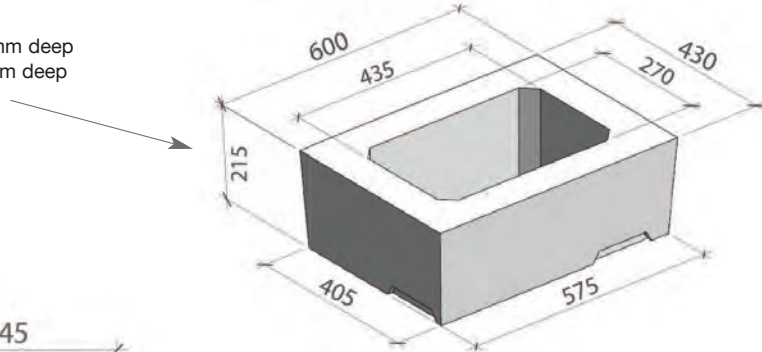
### COVER AND FRAME DETAILS B125 KPC-WW-B | 21kg

- Material - B125 ductile iron cover and frame
- Single Cover
- External dimensions: 574mm long x 404 wide x 65mm deep
- Internal dimensions: 450mm long x 280 wide x 65mm deep
- B125 Rated Cover

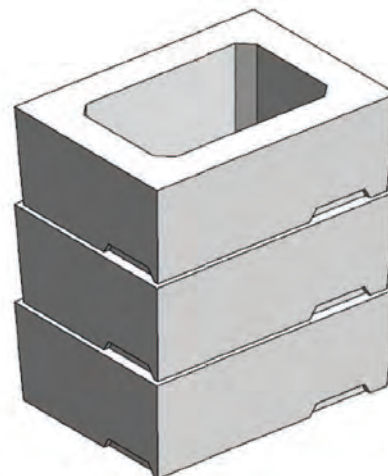


### JUNCTION BOX 73 DETAILS | 74kg

- Concrete Chamber
- External dimensions: 600mm long x 430mm wide x 215mm deep
- Internal dimensions: 445mm long x 270mm wide x 215mm deep with no base
- For all information and dimensions relating to the Junction Box 73 see drawing ref: KPC.CH.JB73.01



Junction Box 73 Stop Cock Chamber - Section

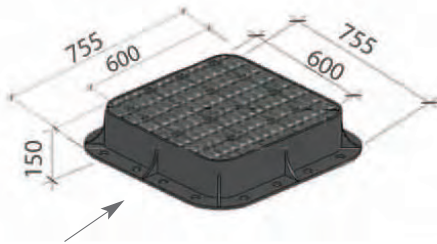


Scan for  
up-to-date  
Catalogue

DOP's available on  
all Junction Boxes



## JUNCTION BOX 75 [515kg] - with 100mm base [Air Valve Chamber STD-W-20]



### OPTION 1 COVER AND FRAME DETAILS

D400 KPC-AV-D-600x600x150mm | 74kg

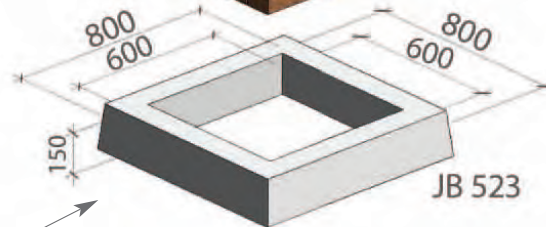
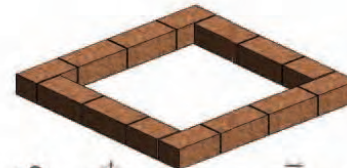
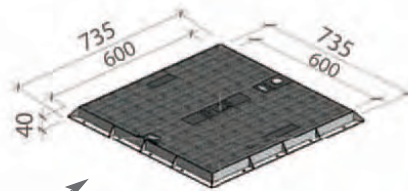
- Material - Ductile iron cover and frame
- Double cover 750x750x150mm
- Internal dimensions 600x600mm

### OPTION 2 COVER AND FRAME DETAILS

D400 KPC-D-600x600mm | 95kg

- Material - ductile iron cover and frame
- Double Cover: 740 x 740 x 100mm
- Internal dimensions: 600 x 600mm

1-3 Courses of Class B Engineering brick set in C50/60 mortar

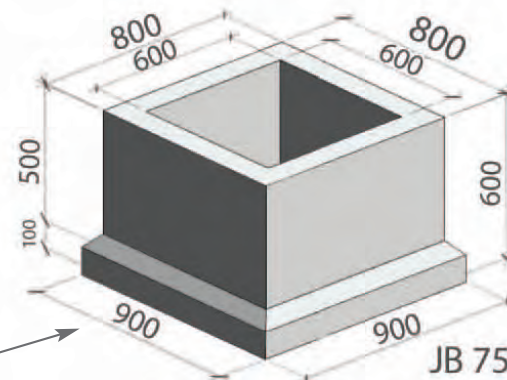


### JUNCTION BOX RISER 523 TO SUIT JB75 | 140kg

- Material Concrete
- External dimensions: 800mm x 800mm x 150mm
- Internal dimensions: 600mm x 600mm x 150mm

### JUNCTION BOX 75 DETAILS | 515kg

- Concrete Chamber
- External dimensions: 800mm long x 800mm wide x 600mm deep
- Internal dimensions: 600mm long x 600mm wide x 500mm deep with 100mm base
- For all information and dimensions relating to the Junction Box 75 see drawing ref: KPC.CH.JB75.01

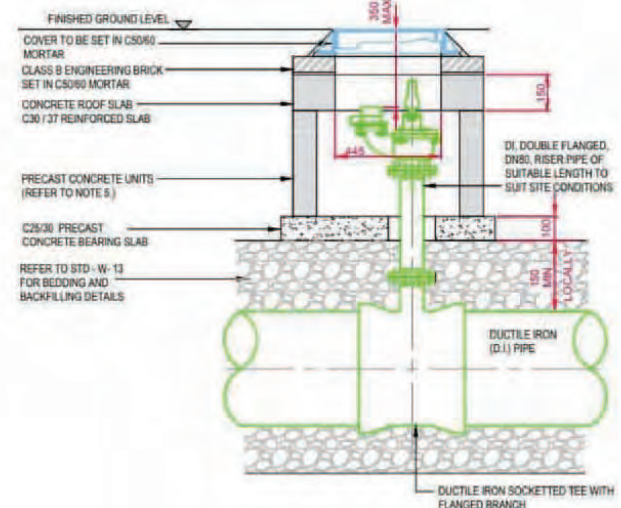
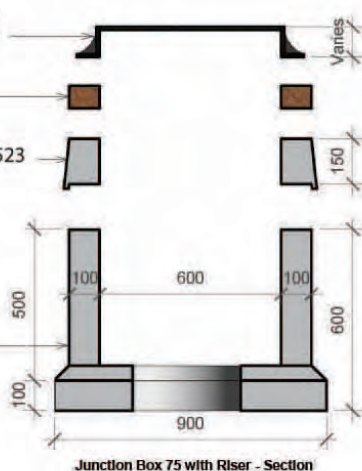


Option 1 - 100mm D400  
Option 2 - 150mm D400

Engineering Brick

Junction Box Riser 523 (if required)

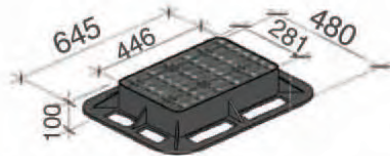
Junction Box Base Unit



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## JUNCTION BOX 76 [430kg] - with 100mm base (Sluice Valve Chamber STD-W-15)



### OPTION 1 COVER AND FRAME DETAILS D400 KPC-WW-D-SV | 30kg

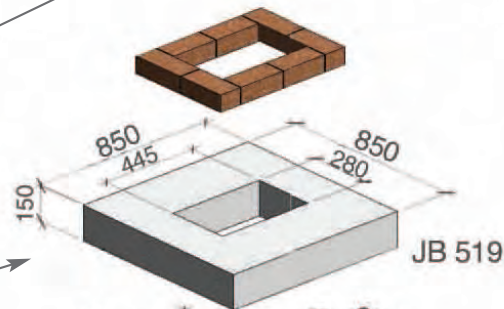
- Material - Ductile iron cover and frame
- Double cover 645x480x100mm
- Internal dimensions 446x281mm



### OPTION 2 COVER AND FRAME DETAILS B125 KPC-WW-B-SV | 21kg

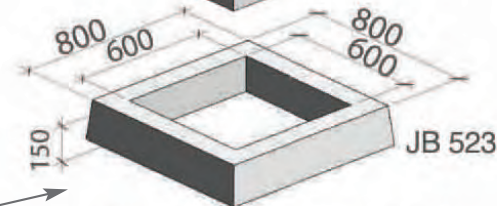
- Material - Ductile iron cover and frame
- Double cover 574x404x65mm
- Internal dimensions 445x281mm

1-3 Courses of Class B Engineering brick set in C50/60 mortar



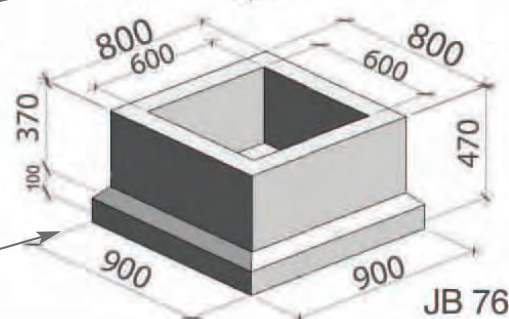
### JUNCTION BOX COVER 519 | 215kg

- Material Concrete
- External dimensions: 850mm x 850mm x 150mm
- Internal dimensions: 445mm x 280mm x 150mm



### JUNCTION BOX RISER 523 TO SUIT JB76 | 140kg

- Material Concrete
- External dimensions: 800mm x 800mm x 150mm
- Internal dimensions: 600mm x 600mm x 150mm



### JUNCTION BOX 76 DETAILS | 430kg

- Concrete Chamber
- External dimensions 800 long x 800 wide x 470mm deep
- Internal dimensions 600 long x 600 wide x 370mm deep - with 100mm base
- For all information and dimensions relating to the Junction Box 76 see drawing Ref: KPC.CH.JB76.01

Option 1 - 100mm D400  
Option 2 - 65mm B125

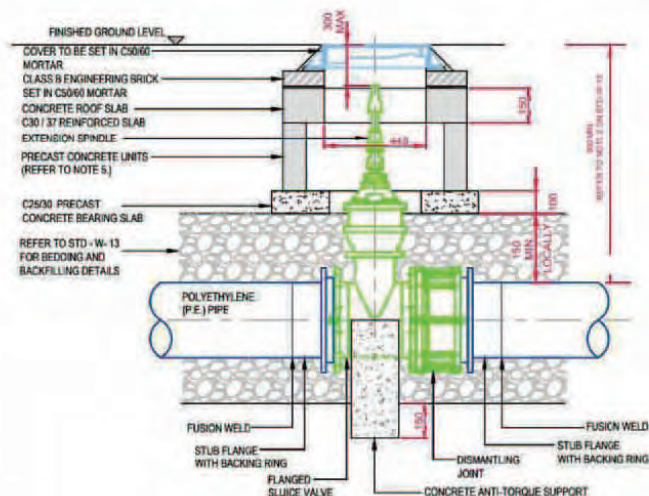
Engineering Brick 280

JB 519 Box Cover 280 150

Junction Box Riser 523 (if required) 600 150

Junction Box Base Unit 100 600 100 370 470

Junction Box 76 with Riser - Section



DOP's available on all Junction Boxes

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## JUNCTION BOX 77 [430kg] - with 100mm base (Fire Hydrant Chamber STD-W-16)

### OPTION 1 COVER AND FRAME DETAILS D400 KPC-WW-D-FH | 38kg

- Material - Ductile iron cover and frame
- Double cover 645x480x100mm
- Internal dimensions 446x281mm

### OPTION 2 COVER AND FRAME DETAILS B125 KPC-WW-B-FH | 21kg

- Material - Ductile iron cover and frame
- Double cover 574x404x65mm
- Internal dimensions 445x281mm

1-3 Courses of Class B Engineering brick set in C50/60 mortar

### JUNCTION BOX COVER 519 | 215kg

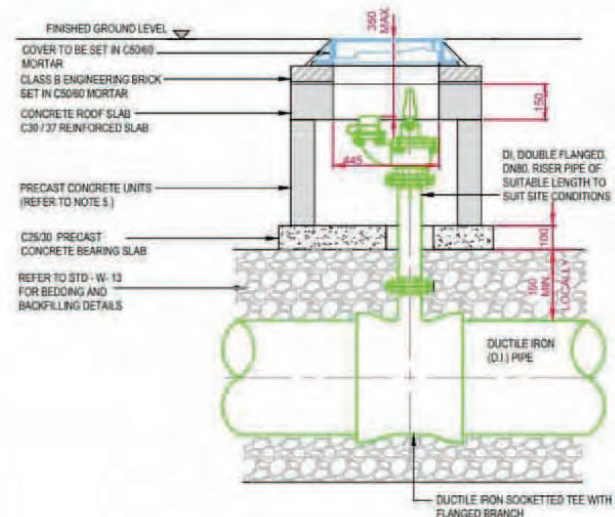
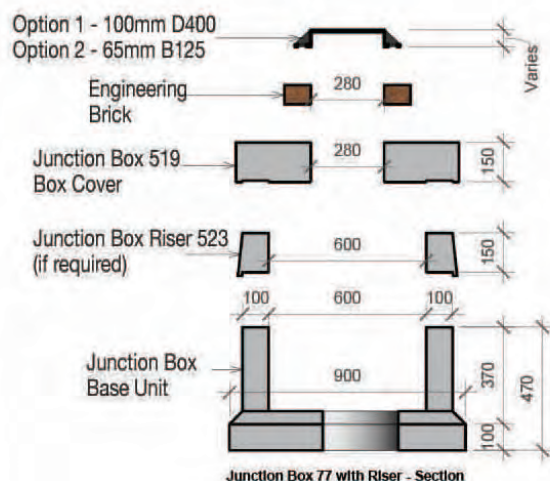
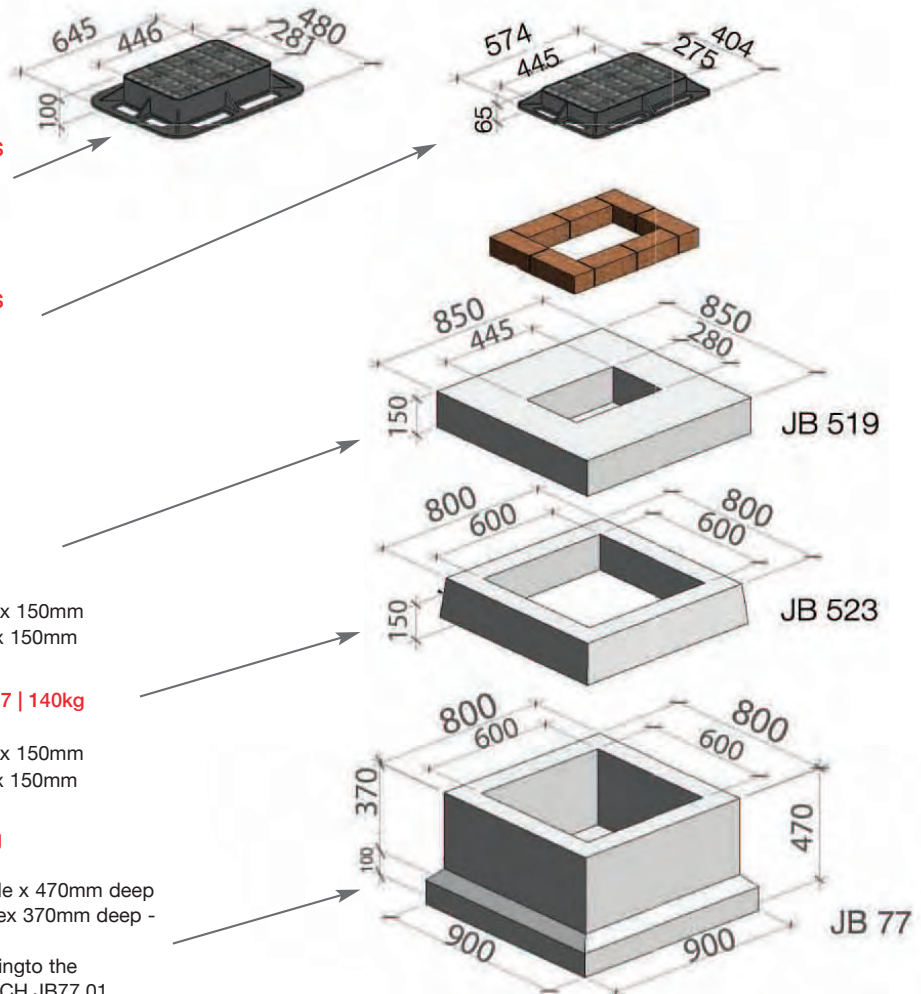
- Material Concrete
- External dimensions: 850mm x 850mm x 150mm
- Internal dimensions: 445mm x 280mm x 150mm

### JUNCTION BOX RISER 523 TO SUIT JB77 | 140kg

- Material Concrete
- External dimensions: 800mm x 800mm x 150mm
- Internal dimensions: 600mm x 600mm x 150mm

### JUNCTION BOX 77 DETAILS | 430kg

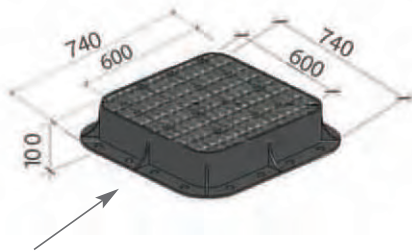
- Concrete Chamber
- External dimensions 800 long x 800 wide x 470mm deep
- Internal dimensions 600 long x 600 wide x 370mm deep - with 100mm base
- For all information and dimensions relating to the Junction Box 77 see drawing Ref: KPC.CH.JB77.01



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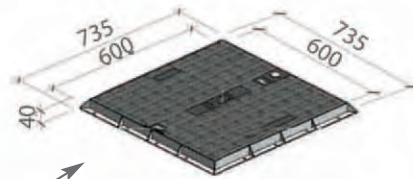


## JUNCTION BOX 78 [624kg] - Boundary Box with 100mm base STD-WW-13



### OPTION 1 COVER AND FRAME DETAILS D400 KPC-D-600x600mm | 95kg

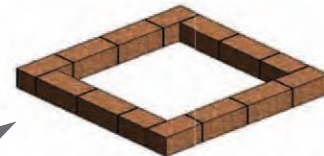
- Material - ductile iron cover and frame
- Double Cover: 740 x 740 x 100mm
- Internal dimensions: 600 x 600mm



### OPTION 2 COVER AND FRAME DETAILS B125 KPC-D-600x600mm | 31kg

- Material - Ductile iron cover and frame
- Double cover 735x735x40mm
- Internal dimensions 600x600mm

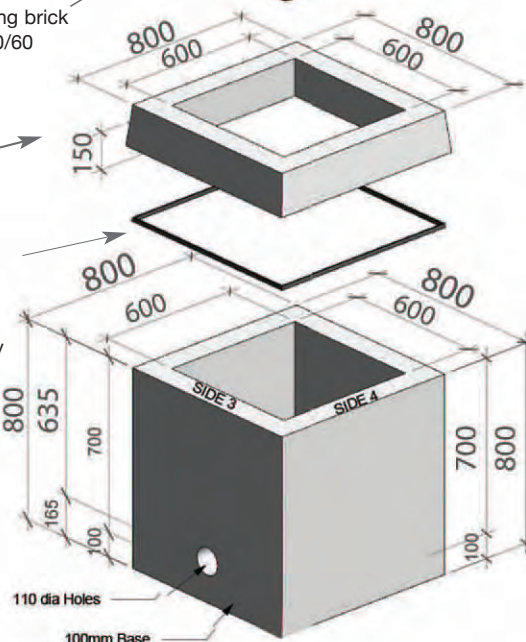
1-3 Courses of  
Class B  
Engineering brick  
set in C50/60  
mortar



### JUNCTION BOX RISER 523 TO SUIT JB78 | 140kg

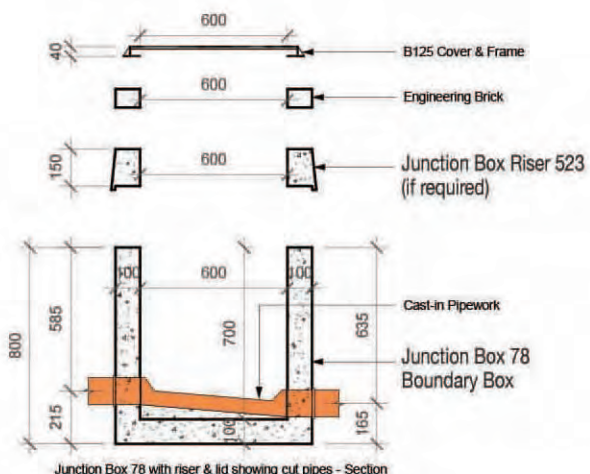
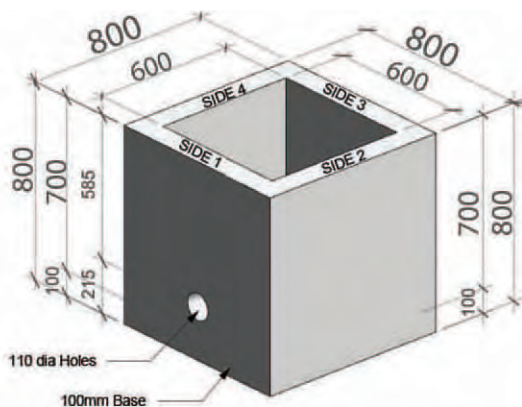
- Material Concrete
- External dimensions: 800mm x 800mm x 150mm
- Internal dimensions: 600mm x 600mm x 150mm

Black Jack  
Sealant to be  
placed under  
each concrete  
riser supplied by  
others.



### JUNCTION BOX 78 DETAILS | 624kg

- Concrete Chamber
- External dimensions 800 long x 800 wide x 800mm deep
- Internal dimensions 600 long x 600 wide x 700mm deep - with 100mm base
- For all information and dimensions relating to the Junction Box 78 see drawing Ref: KPC.CH.JB78.01



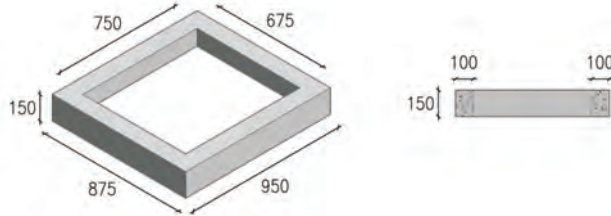
DOP's available on all Junction Boxes

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Enquiries Rol T: 057 9353018 E: sales@killeshal.com UK T: 0800 0393367 E: info@killeshalprecast.co.uk

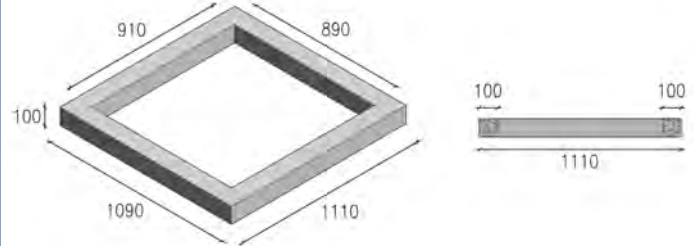
## JUNCTION BOX RISER JB 501 [118kg]

To suit JB 30, 31



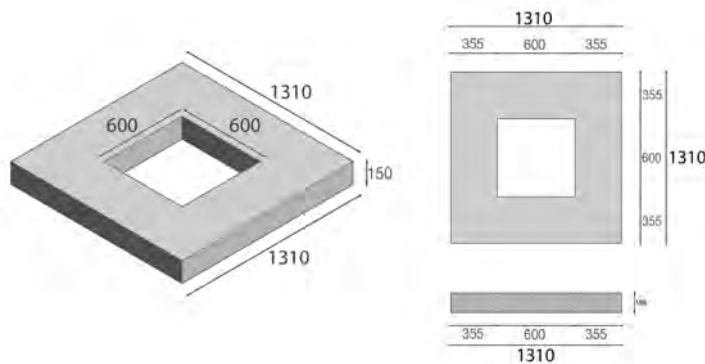
## JUNCTION BOX RISER JB 502 [96kg]

To suit JB 26, 27, 34, 35, 37, 63, 64



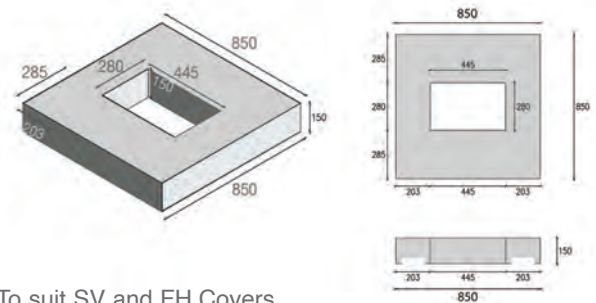
## JUNCTION BOX COVER JB 509 [487kg]

To suit JB 26, 27, 34, 35, 37, 63, 64



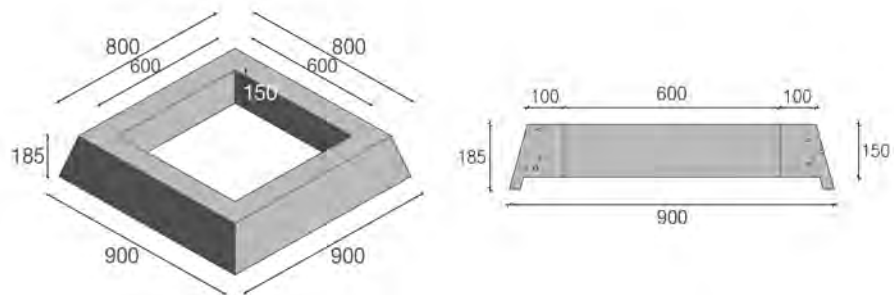
## JUNCTION BOX COVER JB 519 [215kg]

To suit SV and FH Covers  
To suit JB 76, 77



## JUNCTION BOX RISER JB 523 [140kg]

To suit JB 36, 45, 59, 60, 75, 76, 77, 78



## ENGINEERING BRICK Cat 30 with a smooth finish

### PRODUCT DATA:

BRICK SIZE:	NO. PER PACK	WEIGHT PER PACK
Cat 30 Engineered Brick	512 no.	1.60 t

### FEATURES & BENEFITS:

Can be used for building up manholes  
Can be used internally for generator rooms.  
Manufactured in a controlled environment.  
Very low occurrence of efflorescence.  
Dimensionally accurate.  
Low wastage levels.  
Frost resistant.

### MANUFACTURE:

Our cat 30/50 engineered bricks are manufactured by using advanced manufacturing processes and natural materials.

**Note:** All products are manufactured from natural materials and although we strive to provide consistency of colour, variation may occur in the manufacturing process. It is for this reason that we recommend that products are selected from at least three bales, within each delivery. This will eliminate 'banding'.



### COLOURS:

ALL COLOURS MADE TO ORDER  
(minimum quantity required)



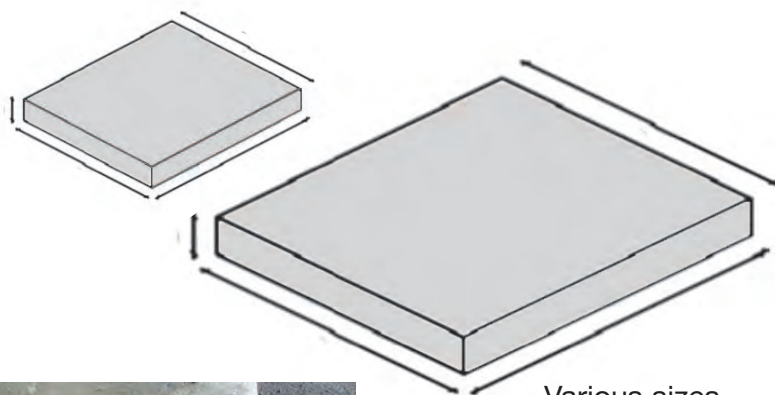
Silver Grey Smooth

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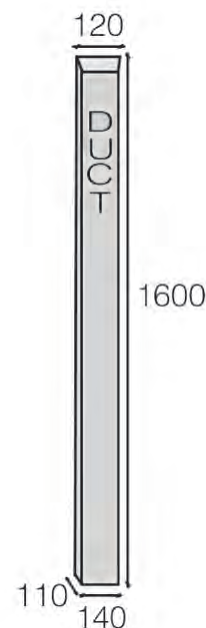
## DUCT COVERS

Ductile Iron/Galvanised cover can be cast into concrete cover slabs - Various sizes available



## DUCT POST [54kg]

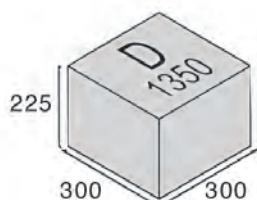
Ref: M/POST 111



## DUCT MARKER BLOCKS [50kg]

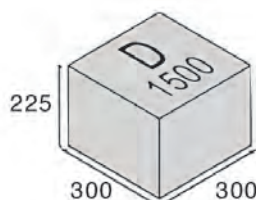
Ref: M/POST 113

Duct Marker Block  
300x300x225mm [50kg]



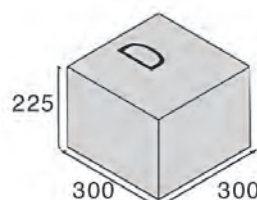
Ref: M/POST 114

Duct Marker Block  
300x300x225mm [50kg]



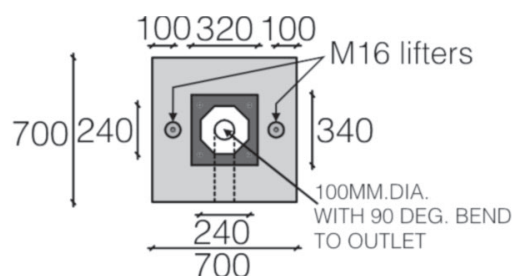
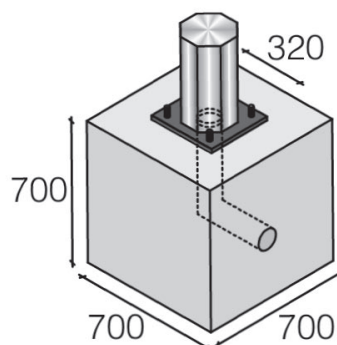
Ref: M/POST 115

Duct Marker Block  
300x300x225mm [50kg]



## IR/11 - LAMP POST BASE [710kg]

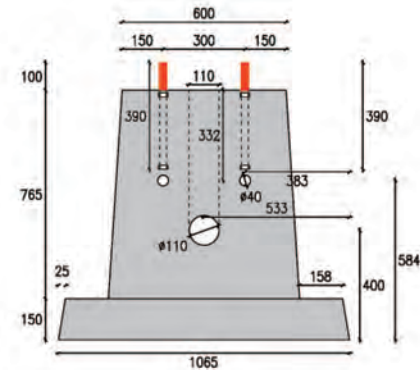
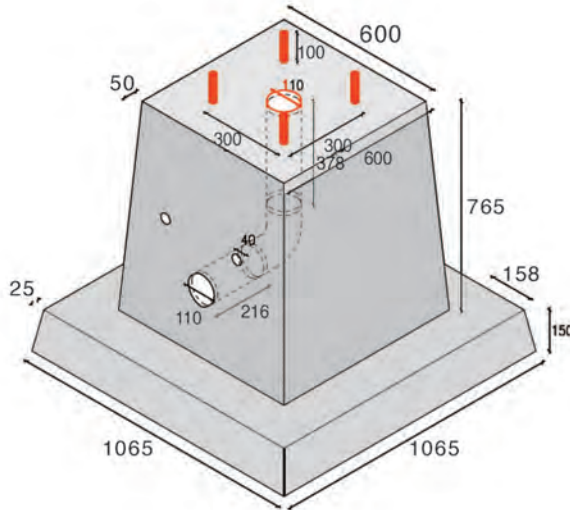
700x700x700mm [710kg]



Scan for  
up-to-date  
Catalogue

## IR/12 - SIGNAL POLE CONCRETE BASE [1068kg]

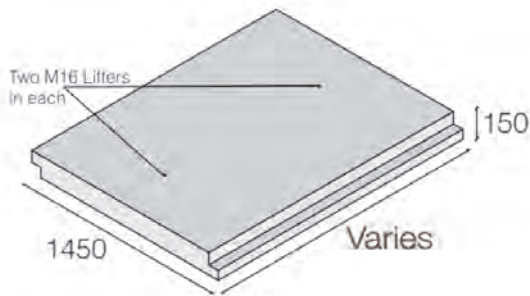
1065x1065x1015mm [1068kg]



## GAS LINE COVER SLABS

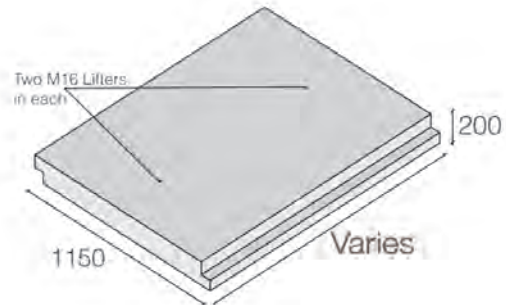
Ref: D/C 199

1450x150mm [496kg p/m]

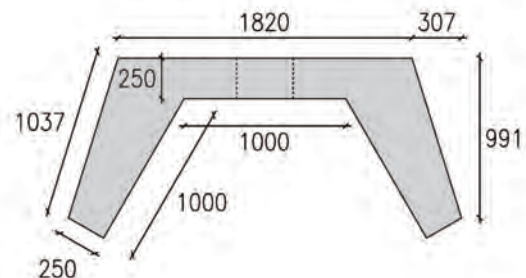
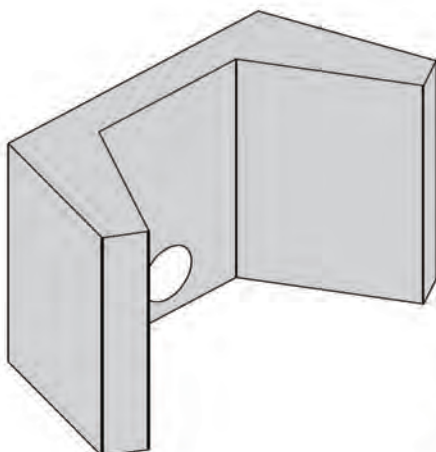


Ref: D/C 228

1150x200mm [505kg p/m]



## HEADWALLS 1.0m, 1.5m, 2.0m



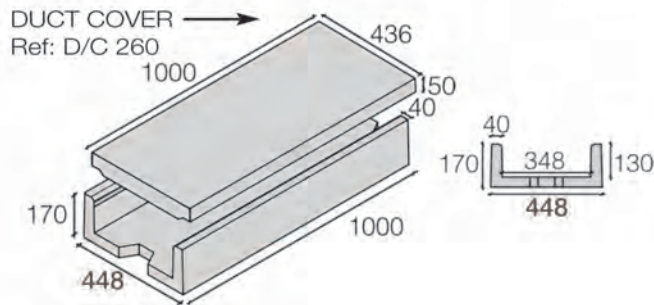
### Variable Dimensions Table

Headwall No.	Height (Mtrs)	Hole Options (mm)	Weight
M125	1.0m	350 / 550	2600kg approx
M126	1.5m	350 / 550 / 800	3910kg approx
M127	2.0m	350 / 550 / 800	5210kg approx



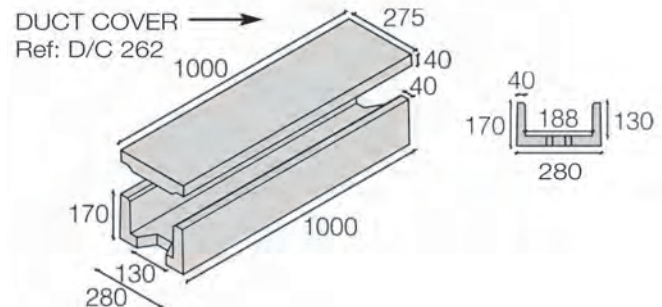
## DUCT CHANNEL 114

170x448x1000mm | 69.5kg  
 Cover Ref: D/C 260 | 48kg



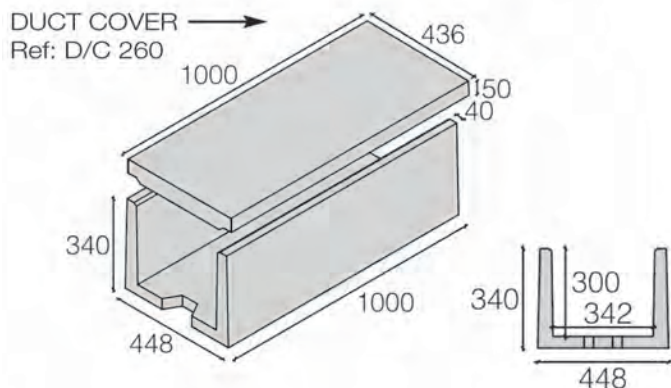
## DUCT CHANNEL 115

170x280x1000mm | 53kg  
 Cover Ref: D/C 262 | 33kg



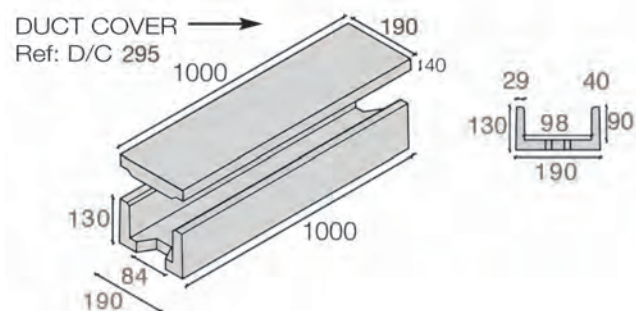
## DUCT CHANNEL 117

340x448x1000mm | 110kg  
 Cover Ref: D/C 260 | 48kg



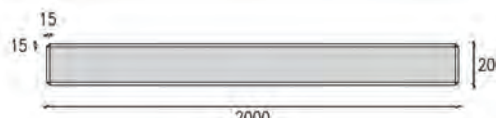
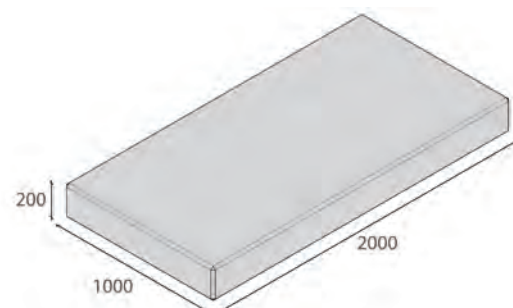
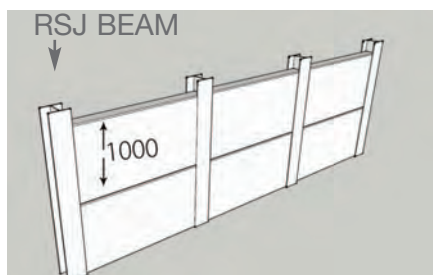
## DUCT CHANNEL 119

130x190x1000mm | 37kg  
 Cover Ref: D/C 295 | 23kg



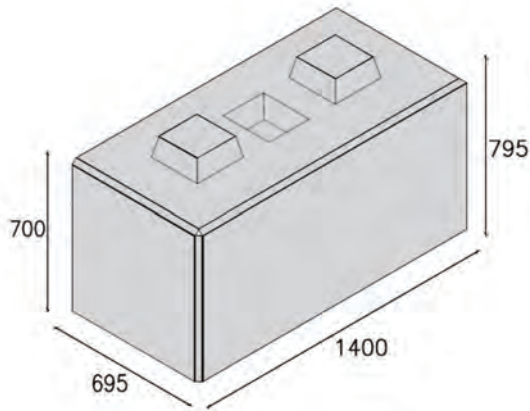
## D/C 294 - RETAINING WALL PANEL [960kg]

960kg  
 various sizes  
 available



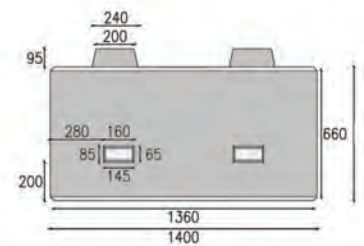
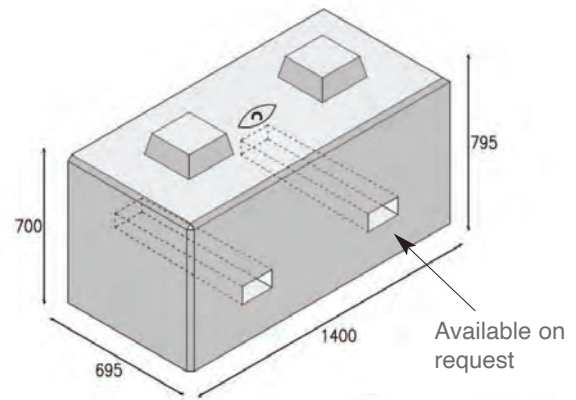
## M/144 - LEGO BLOCK

695 x 1400 x 700mm [1634kg]

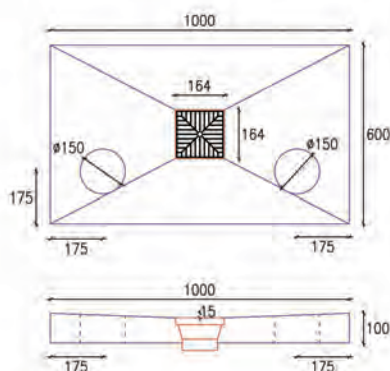
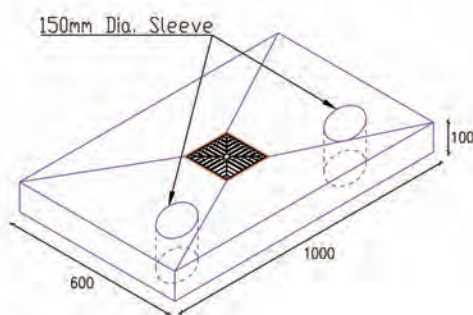


## M/149 - LEGO BLOCK [FORK RECESS]

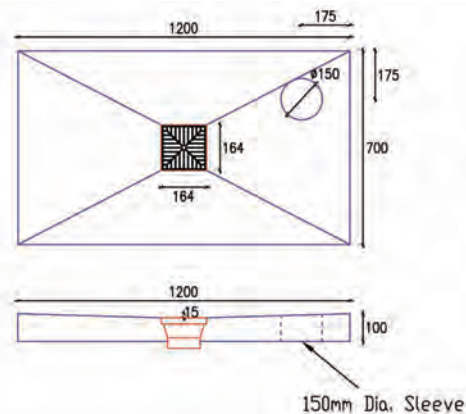
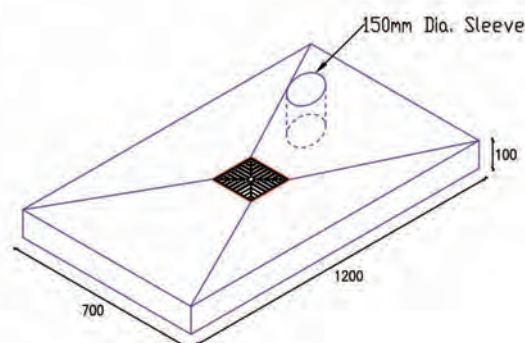
695 x 1400 x 700mm [1596kg]



## M/148 - HEAT PUMP BASE



## M/150 - HEAT PUMP BASE

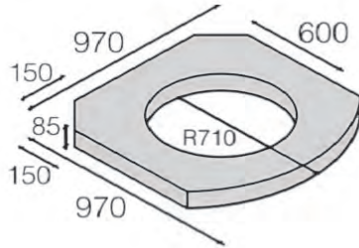




## GULLY RISERS

### Ref: G/R 101

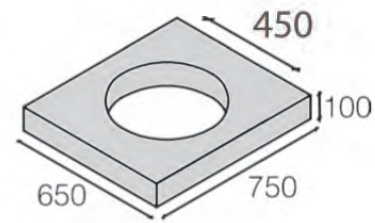
970x970x85mm [120kg]



### Ref: G/R 102

750x650x100mm [79kg]

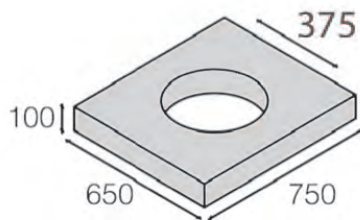
To suit G/5



### Ref: G/R 103

750x650x100mm [91kg]

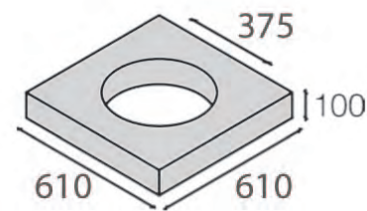
To suit G/5



### Ref: G/R 104

610x610x100mm [63kg]

To suit G/1. G/2



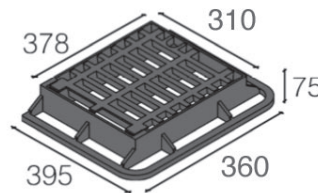
## DUCTILE IRON FREE FLOW LIDS

### Ref: G/9 C/250

360x310x75mm ope | 16kg frame

To suit:

- G/1
- G/2
- G/5



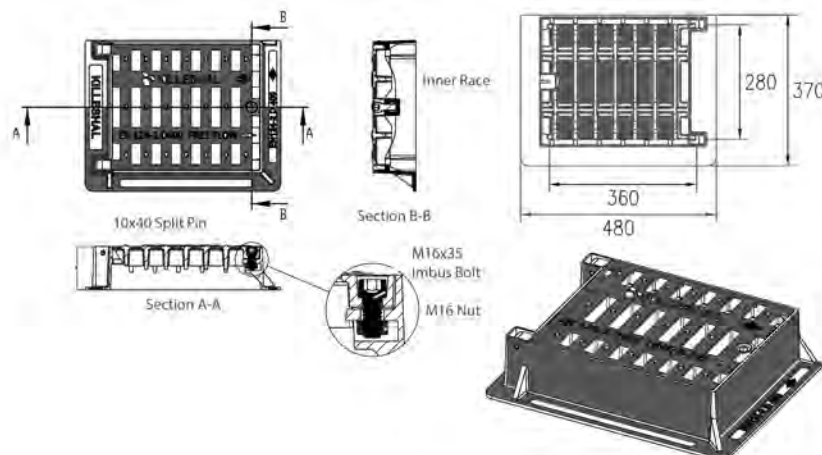
### Ref: G/10 D400

480x370x100mm | 22kg

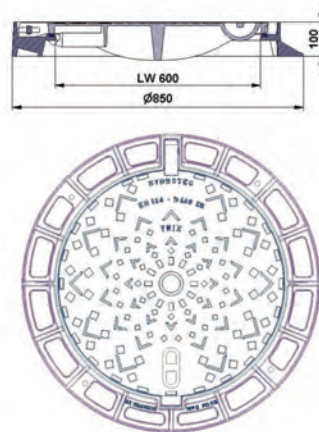
360x280 ope

To suit:

- G/1
- G/2
- G/5



## TRIX LID D400 MANHOLE [60kg]



### Features

- Locking**
- innovative automatic closing system with 3 bars
  - hinders unauthorised opening = anti-theft
  - through the positioning of the locking points the cover centred in the frame and is frictionally locked

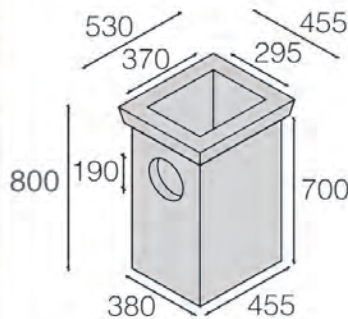
- Hinge**
- simple ergonomic opening of the cover
  - 120° position of inspection,
  - 90° lifting position and blocking against unintentional closing of the cover

- Insert**
- changeable dampening insert
  - "HYDROprene" / Polychloroprene according to DIN 53505 standard
  - long life, high abrasion stability for extreme loads

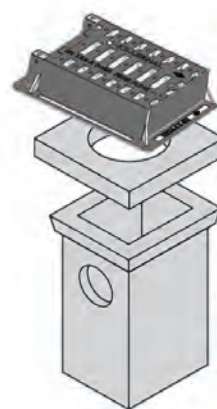
## UNTRAPPED GULLY G1 [160kg]

### Untrapped Gully

800x380x455mm | 160kg



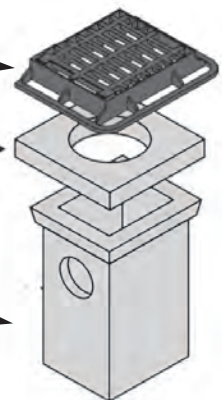
Ref: G/1



Ref: G/1 + GR/104 + D400 (G/10)

Killeshal Cast Iron  
Free Flow Lid  
C/250 (G/9) 16kg  
D/400 (G/10) 22kg

Precast Gully Riser  
if required for High  
Adjustment G/R 104 63kg

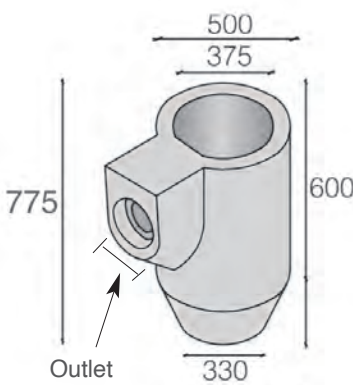


Ref: G/1 + GR/104 + C250 (G/9)

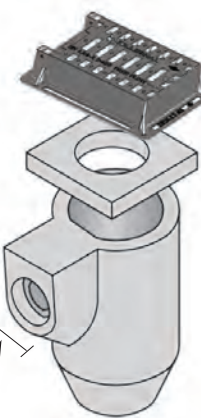
## TRAPPED GULLY G2 [238kg]

### Trapped Gully

800x500x375mm | 238kg


 Outlet  
Size 200

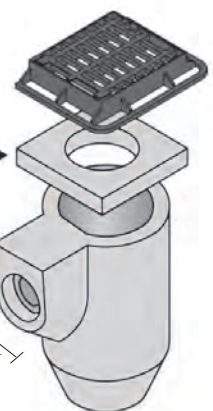
Ref: G/2


 Outlet  
Size 200

Ref: G/2 + GR/104 + D400 (G/10)

Killeshal Cast Iron  
Free Flow Lid  
C/250 (G/9) 16kg  
D/400 (G/10) 22kg

Precast Gully Riser  
if required for High  
Adjustment G/R 104. 63kg



Outlet Size 200

Ref: G/2 + GR/104 + C250 (G/9)

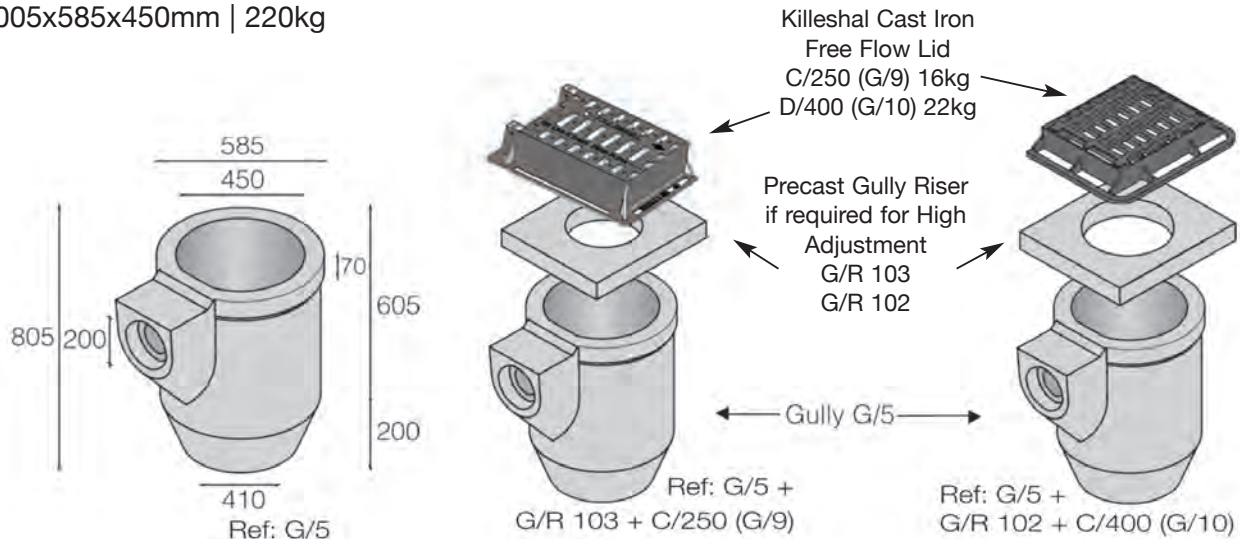
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## LARGE TRAPPED GULLY G5 [220kg]

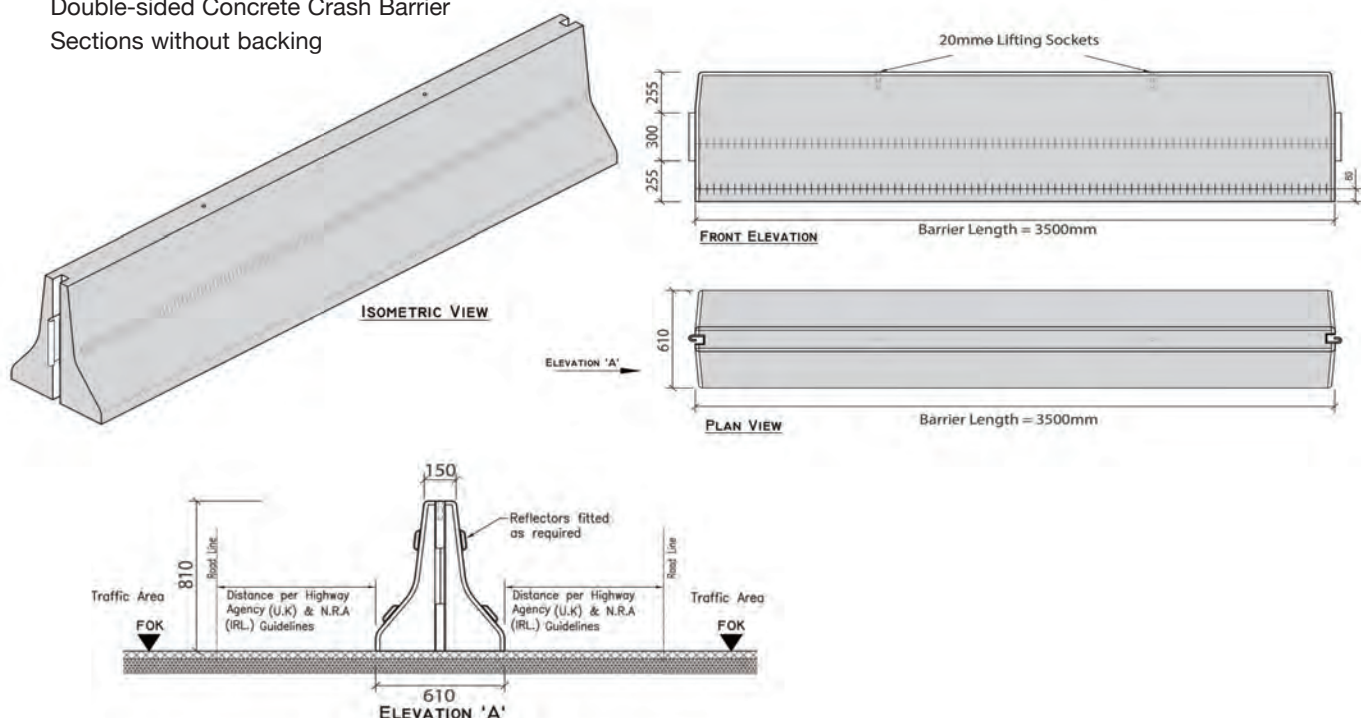
### Large Trapped Gully

8005x585x450mm | 220kg



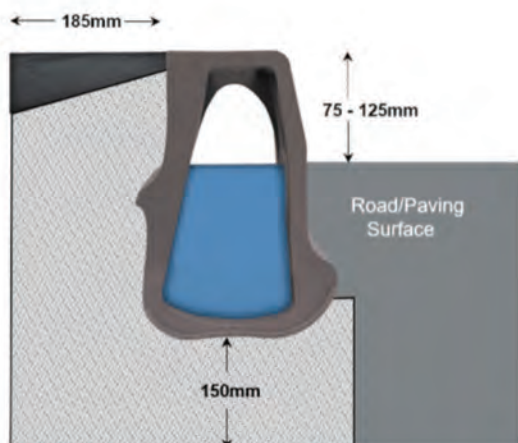
## CONCRETE BARRIER [2000kg]

Double-sided Concrete Crash Barrier  
Sections without backing



## DuraDrain - Lightweight Heavy Duty Drainage

**DURABLE DRAINAGE KERB UNITS WITH LARGE FLOW VOLUME**



Unlike the traditional kerb and gully method where flows compound on the surface, the collected run-off is contained and driven to outlet hidden within the channel body.

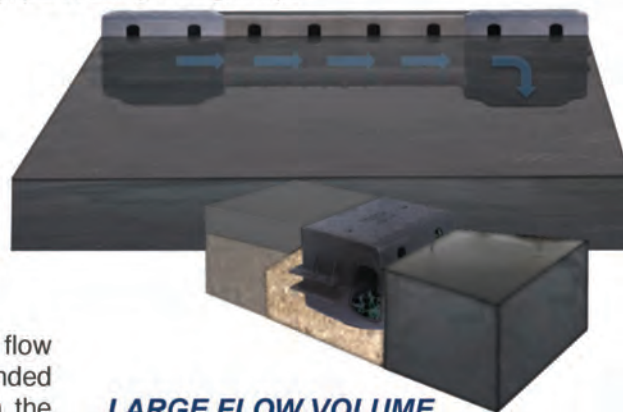
As the kerb-lines are traditionally set at a low point, the levels on site can be simplified using one- directional cross-fall/camber to deliver surface water to the kerb-side.

The material properties combined with the large flow volume create faster flows. Large flows are compounded and delivered to outlet, protected and hidden within the channel body.

The DuraDrain combined kerb and drainage system, available from Killeshal Precast Concrete Limited, provides efficient drainage to prevent flooding or settlement and to protect surfaces.

Duradrain is a heavy duty combined kerb and drainage system that provides an efficient and safe method of draining highways, car parks and potentially any surface or structure with a kerb edge.

Combined kerb and drainage systems collect run-off continually and quickly which helps extend the life of a project and improve the conditions for users and their safety, particularly in Highways.



**LARGE FLOW VOLUME**



## TOUGH ENOUGH FOR HEAVY TRAFFIC LIGHT ENOUGH FOR EASY HANDLING



**NO-CON-SAWS REQUIRED**



**EASILY CUT TO SIZE**

- rated for highway use
- light enough for one person to carry multiple units
- can be cut to shape and size with hand tools

## DuraDrain Efficiently Combined Kerb & Drain

*REMOVING SURFACE WATER FROM  
THE ROADWAY INTO AN INTEGRATED CHANNEL*

**DURADRAIN 70000  
HALF BATTER**



**DURADRAIN 60000  
FULL BATTER  
(45 Degree splay)**



## Strong & Lightweight

**FOR EASIER HANDLING AND QUICKER,  
EASIER INSTALLATION**



Access Chamber Units  
Gateway/Dropped Kerb units  
Rodding Chambers  
Radius Kerb Units

## DuraDrain Compliance

For Combined kerb & drainage systems the Harmonised Standard verifies compliance and defines the requirements and demands for a product. The requirements for compliance have been developed and set by CEN/CENILEC within EU Legislation.

Duradrain combined drainage and kerb units comply fully with the harmonised standard **(EN1433 - Heavy Duty Load Category – D400)** and carry the CE mark.

Duradrain also meets the requirements of the interim advice note IAN117/08 Rev 2 and can be approved, used and adopted within highways across the UK, Ireland & Mainland Europe.



## BUS STOP KERBS

Available in Concrete and Reconstituted Granite options

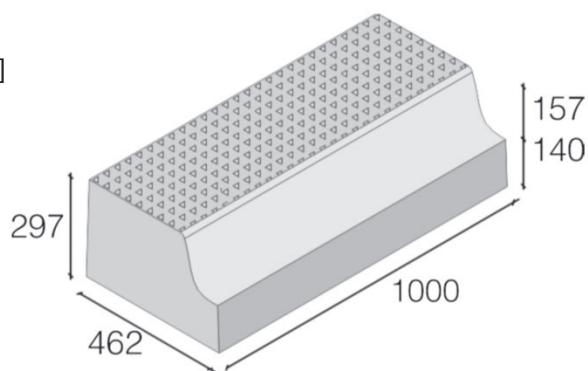
### Killeshal's Bus Stop Kerb Design Features include:

- Height fixed to suit easy access to modern buses.
- Curved profile to enable accurate bus positioning at the stop.
- Curved profile reduces lateral impact between wheel and Killeshal's kerb, increasing the life span of bus wheel and kerbs.
- Textured top face aids bus entry for the visually impaired.

#### Ref: K/136-1

Standard

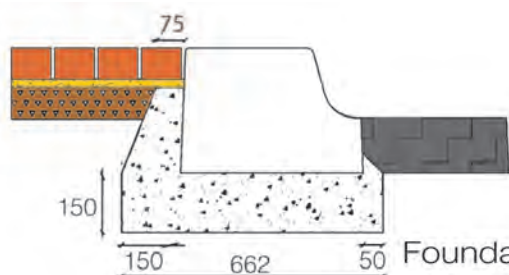
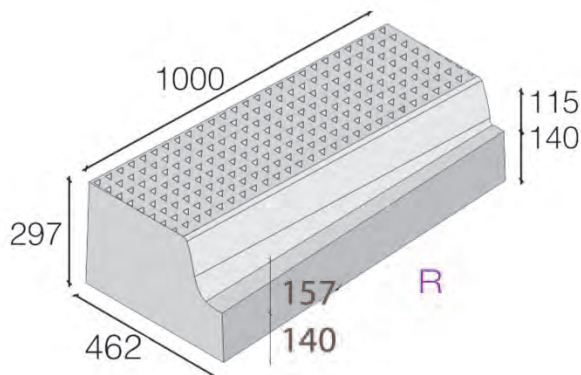
297x462x287x1000mm [280kg]



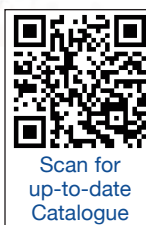
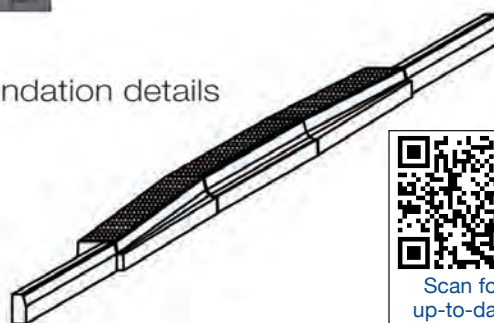
#### Ref: K/136-1

Transition

297x462x255x1000mm [254kg]



IN CASES OF POSSIBLE SEVERE IMPACT T16 BARS CAN BE PROVIDED IN THE HAUNCHING CONCRETE GRADE 15N10 MINIMUM.





## KILLESHAL'S KERBS RANGE ARE MANUFACTURED TO RELEVANT STANDARDS:-

BS 7263-1 (2001) -	Precast Concrete Flags, Kerbs, Channels, Edgings and Quadrants - Part 1: Precast, Unreinforced Concrete Paving Flags & Complementary Fittings - Requirements & Test Methods.
IS EN 1340 -	Concrete Kerb Units - Requirements and Test Methods.
IS146 -	Precast Concrete Kerbs, Channels, Edgings and Quadrants.

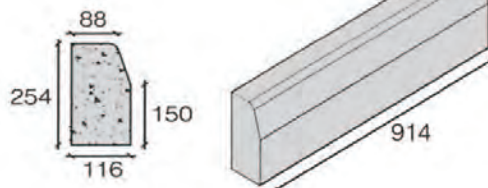
Cut kerbs available in 301 and 457 for radii



### HALF BATTER PRESSED KERBS

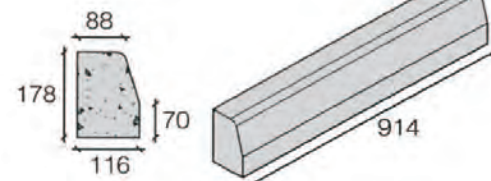
#### Ref: K/142 [62kg]

10" x 5" x 3' (254x116x914mm)



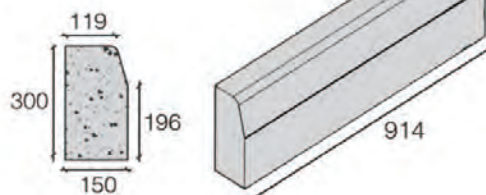
#### Ref: K/143 [42kg]

7" x 5" x 3' (178x116x914mm)  
To suit Ref: K/176



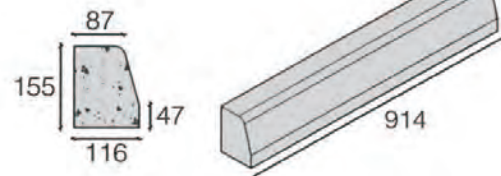
#### Ref: K/160 [95kg]

12" x 6" x 3' (300x150x914mm)



#### Ref: K/196 [36kg]

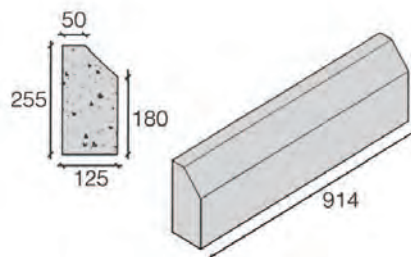
6" x 5" x 3' (155x116x914mm)



### FULL BATTER PRESSED KERBS

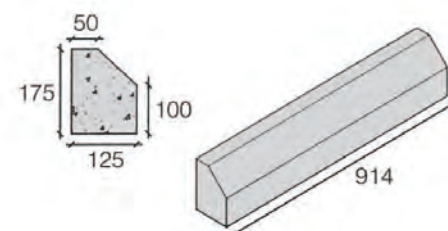
#### Ref: K/155 [64kg]

10" x 5" x 3' (255x125x914mm)



#### Ref: K/183 [42kg]

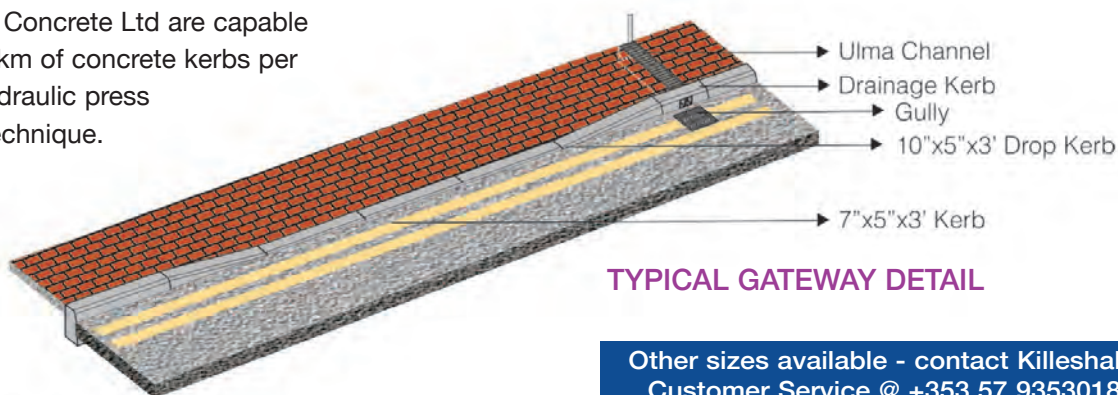
7" x 5" x 3' (175x125x914mm)



HALF BATTER PRESSED KERBS		REFERENCE	914mm	457mm	301mm
10" x 5" x 3' (254x116x914mm)		K/142	•	•	•
7" x 5" x 3' (178x116x914mm)		K/143	•	•	•
12" x 6" x 3' (300x150x914mm)		K/160	•	•	•
6" x 5" x 3' (155x116x914mm)		K/196	•	•	•
FULL BATTER PRESSED KERBS		REFERENCE	914mm	457mm	301mm
10" x 5" x 3' (255x125x914mm)		K/155	•	•	•
7" x 5" x 3' (175x125x914mm)		K/183	•	•	•

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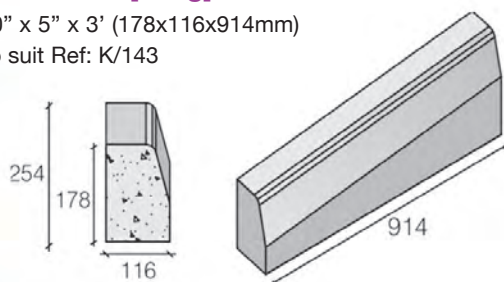
Killeshal Precast Concrete Ltd are capable of producing 4.5km of concrete kerbs per day using the hydraulic press manufacturing technique.



## GATEWAY DROP PRESSED KERB

Ref: K/176 [57kg]

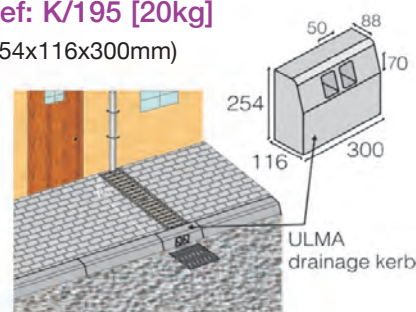
10" x 5" x 3' (178x116x914mm)  
To suit Ref: K/143



## DRAINAGE KERB

Ref: K/195 [20kg]

(254x116x300mm)



## BULLNOSED PRESSED KERBS

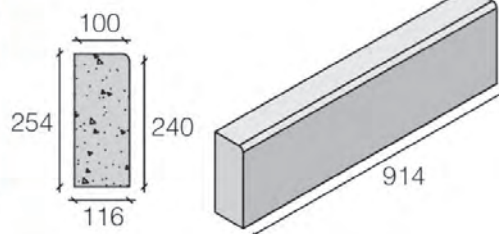
### Ref: K/148 [102kg]

12" x 6" x 3' (305x152x914mm)



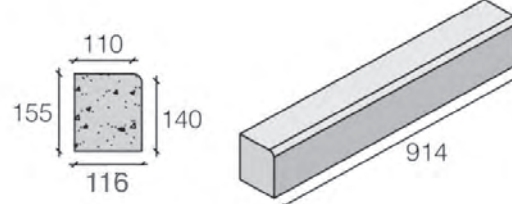
### Ref: K/145 [65kg]

10" x 4 1/2" x 3' (254x116x914mm)



### Ref: K/167 [44kg]

6" x 5" x 3' (155x125x914mm)



Also available in double square edge

GATEWAY DROP PRESSED KERBS	REFERENCE	914mm	457mm	301mm
10" x 5" x 3' (254 to 178x116x914mm)	K/176	•		
BULLNOSED PRESSED KERBS	REFERENCE	914mm	457mm	301mm
12" x 6" x 3' (305x152x914mm)	K/148	•	•	•
10" x 4 1/2" x 3' (254x116x914mm)	K/145	•	•	•
6" x 5" x 3' (155x125x914mm)	K/167	•		

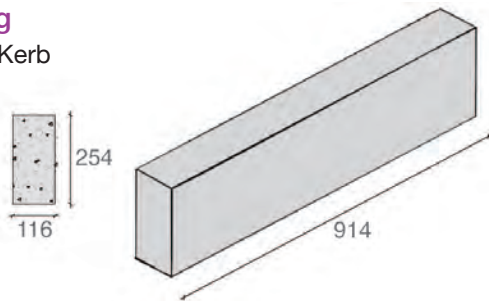
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## KERBS - Used in car parks to delineate car parking spaces

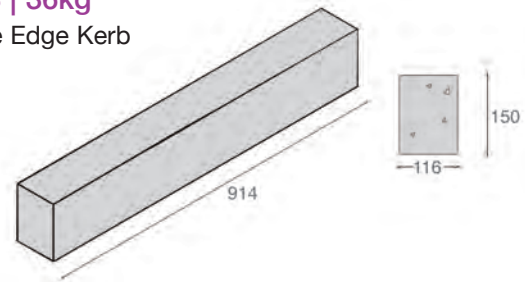
### K/202 | 62kg

Square Edge Kerb  
10x4x3

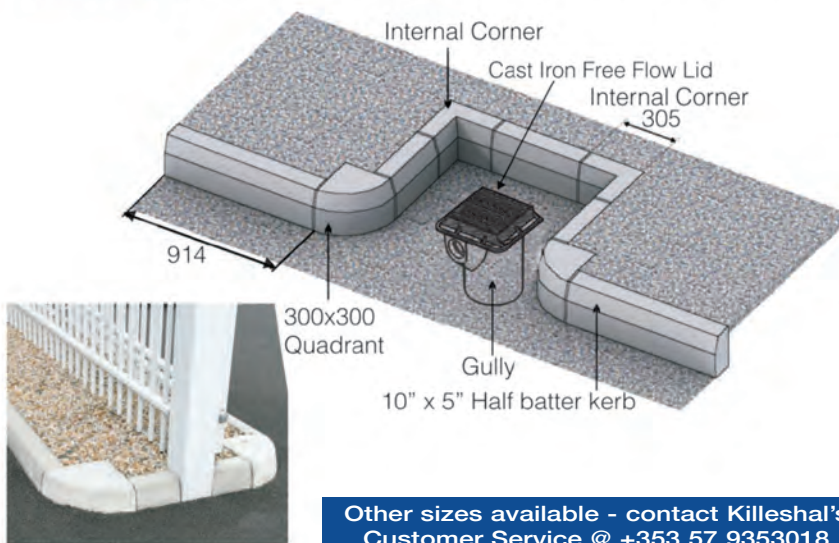


### K/213 | 36kg

Square Edge Kerb  
6x4x3

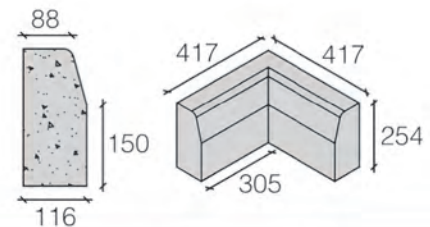


### Killeshal's Typical Quadrant/Corner and Kerb Details



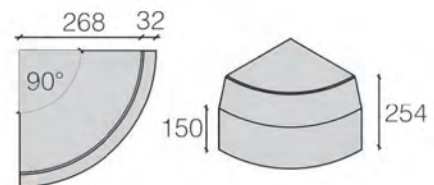
### INTERNAL CORNER K/151 [56kg]

10" x 5" (254x116x417mm)



### 90° EXTERNAL CORNER K/130 [44kg]

(254x150x300mm)

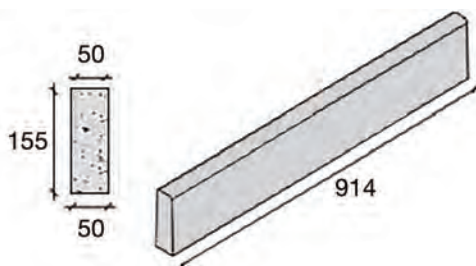


Other sizes available - contact Killeshal's Customer Service @ +353 57 9353018

## GARDEN EDGINGS

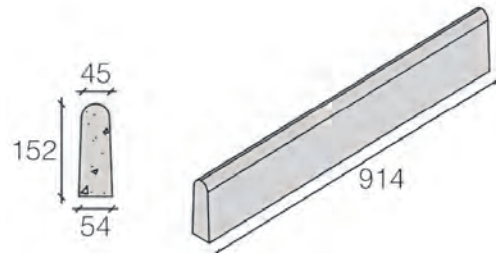
### K/206 | 17kg

6" x 2" x 3' Flat Top Pressed  
(155x50x914mm)



### K/158 | 19kg

6" x 2" x 3' Round Top Wetcast  
(152x54x914mm)

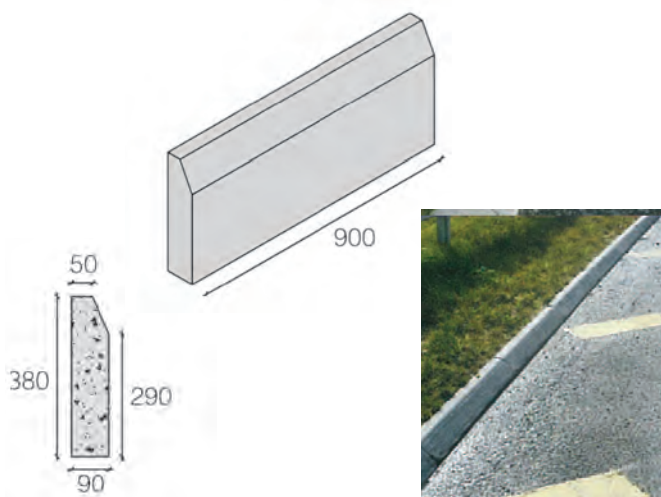


CORNER & QUADRANT KERBS	REFERENCE	1000mm	914mm	830mm	790mm	417mm	301mm
10" x 5" CORNER (254x116x417mm)	K/151					•	
90° QUADRANT (254x150x300mm)	K/130						•
GARDEN EDGINGS	REFERENCE	1000mm	914mm	830mm	790mm	417mm	301mm
6" x 2" x 3' (152x54x914mm)	K/158		•				

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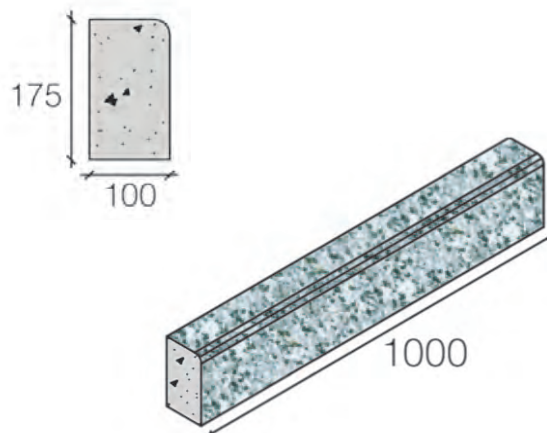
## SPECIAL WETCAST KERBS

**K/165 | 70kg**  
 380x90x900mm



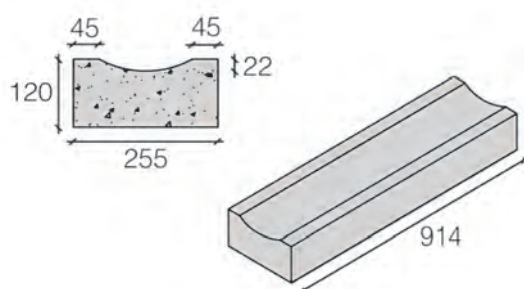
## NATURAL GRANITE KERBS

**K/189 | 47kg**  
 175x100x1000mm

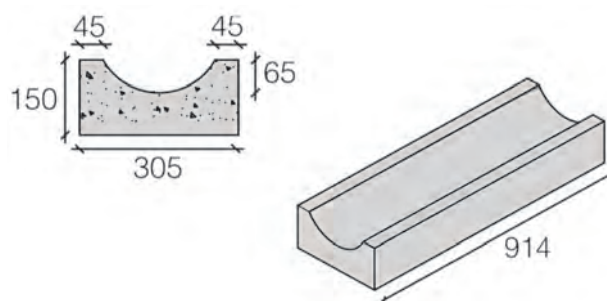


## CHANNEL KERBS

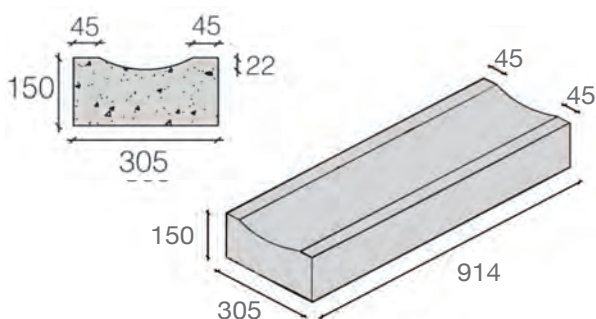
**K/144 | 62kg**  
 10" x 5" x 3' (255x125x914mm)  
 Channel Kerb - Shallow Machine Pressed



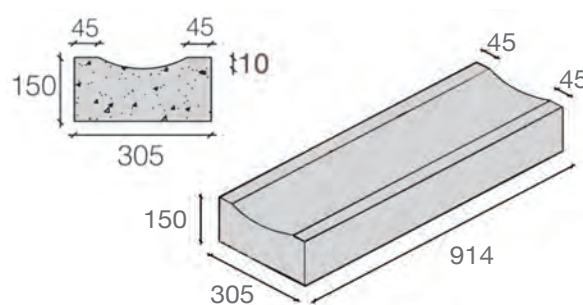
**K/187 | 62kg**  
 12" x 6" x 3' (305x150x914mm)  
 Channel Kerb - Deep Machine Pressed



**K/205 | 94kg**  
 12" x 6" x 3' (305x150x914mm)  
 Channel Kerb - Shallow Machine Pressed



**K/218 | 98kg**  
 (305x150x914mm)  
 Channel Kerb - Shallow Machine Pressed

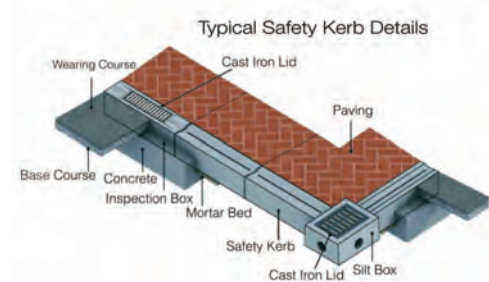
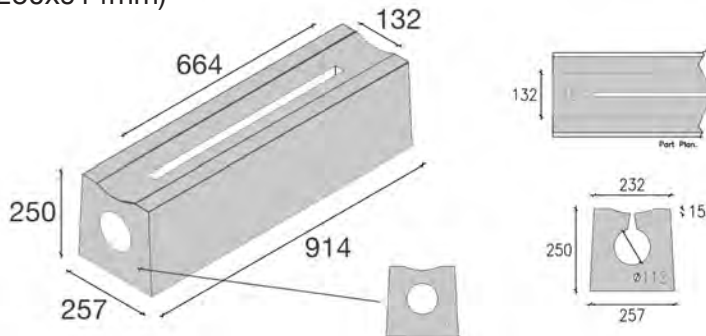


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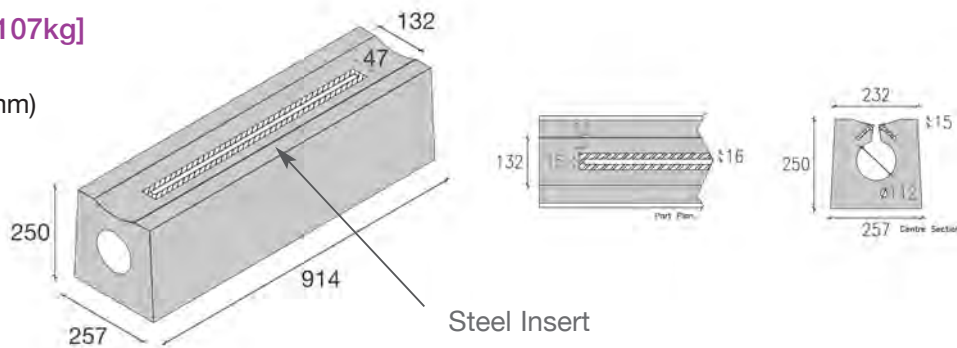
## DBA SAFETY KERBS

Ref: K/117 [107kg]  
(257x250x914mm)



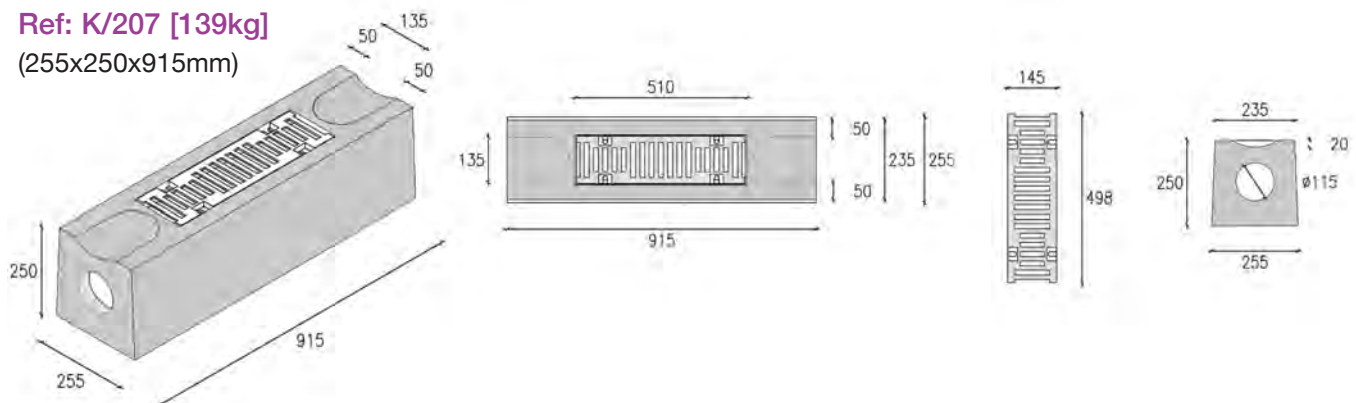
## DBM SAFETY KERBS

Ref: K/117b [107kg]  
Made to order  
(257x250x914mm)



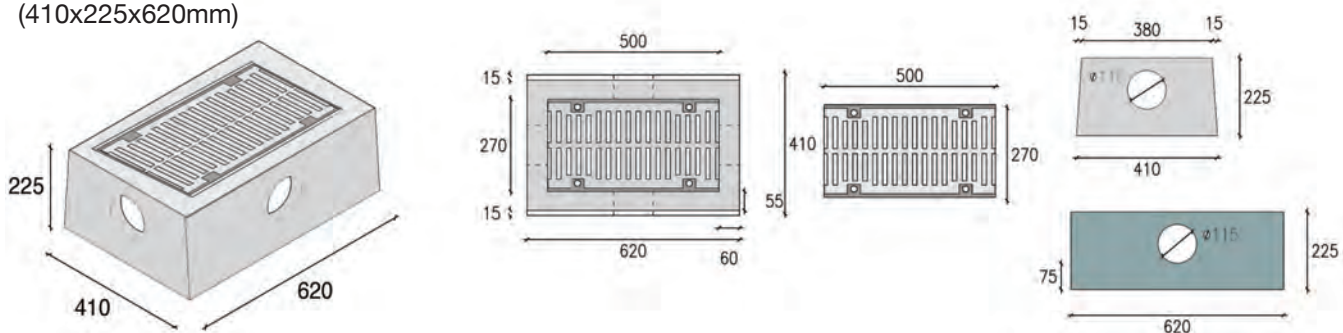
## DBA INSPECTION BOX & LID

Ref: K/207 [139kg]  
(255x250x915mm)



## DBA SMALL SILT BOX & LID

Ref: K/208 [152kg]  
(410x225x620mm)



## HIGH CONTAINMENT KERBS [251kg] (TRAFFIC MANAGEMENT KERBS)

### Advantages of Killeshal's High Containment Kerbs:

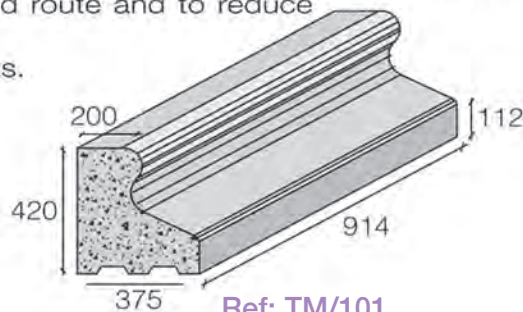
- Used in a wide array of traffic control applications.
- Killeshal's Traffic Management is designed to re-direct vehicles in their objective course without extreme jolting or loss of control.
- As the aim is to redirect vehicles along their desired path, there is less risk of injury to drivers and passengers. This is achieved by the profile of the kerb. There is less likelihood of a sudden halt, which allows following traffic time to slow down or stop.
- Killeshal's High Containment Kerb is designed to reduce damage by vehicles more successfully than typical impact obstacles.
- The purpose of the Killeshal's High Containment Kerb is to redirect vehicles back onto their intended route and to reduce potential damage to vehicles.
- Prevent mounting onto pavements.

- 420 x 375 x 914mm

#### STANDARD LENGTHS:

- 914 mm
- 457 mm
- 301 mm

Other sizes available on request



Ref: TM/101

375x420x914mm | 251kg

### LAYING RECOMMENDATIONS

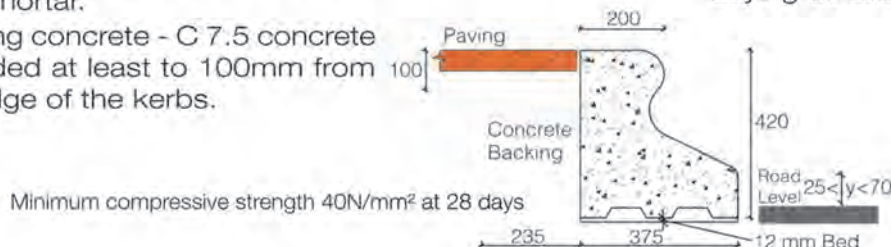
#### New Construction:

- Foundation to be 215mm thick (minimum).
- Construct foundation 625mm wide from carriageway edge.
- Haunching re-bar (350mmx16mm dia.) at 425mm centers.
- Re-bar to be 160mm from outside edge of foundation and project 150mm vertically from concrete.
- Re-bar not required if there is haunching or backfill on top of the Traffic Management Kerbs.
- Traffic Management Kerbs should be laid at 20 to 70mm above road level.
- Bedding material - 1:3 cement and sand mortar.
- Backing concrete - C 7.5 concrete extended at least to 100mm from top edge of the kerbs.

#### Existing Carriageway:

- Remove kerbs or road edge.
- Foundation to be 215mm thick (minimum).
- Construct foundation 625mm wide from carriageway edge.
- Haunching re-bar (350mmx16mm dia.) at 425mm centers.
- Re-bar to be 160mm from outside edge of foundation and project 150mm vertically from concrete.
- The concrete foundations should be scored to assist bonding with the mortar.
- Bedding and concrete specifications as opposite.

#### Laying details



Minimum compressive strength 40N/mm<sup>2</sup> at 28 days



Scan for  
up-to-date  
Catalogue

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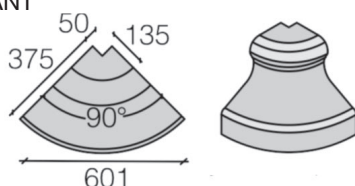


## QUADRANTS AND CORNERS

### EXTERNAL QUADRANT

Ref: TM/106 [72kg]

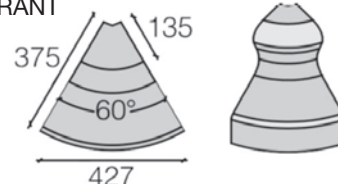
- 90° QUADRANT



### EXTERNAL QUADRANT

Ref: TM/109 [51kg]

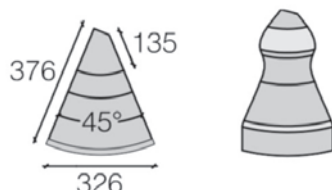
- 60° QUADRANT



### EXTERNAL QUADRANT

Ref: TM/110 [39kg]

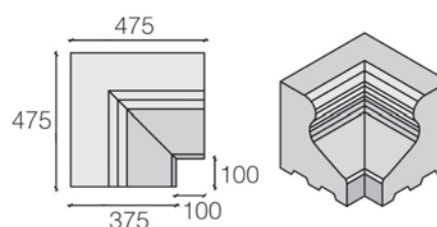
- 45° QUADRANT



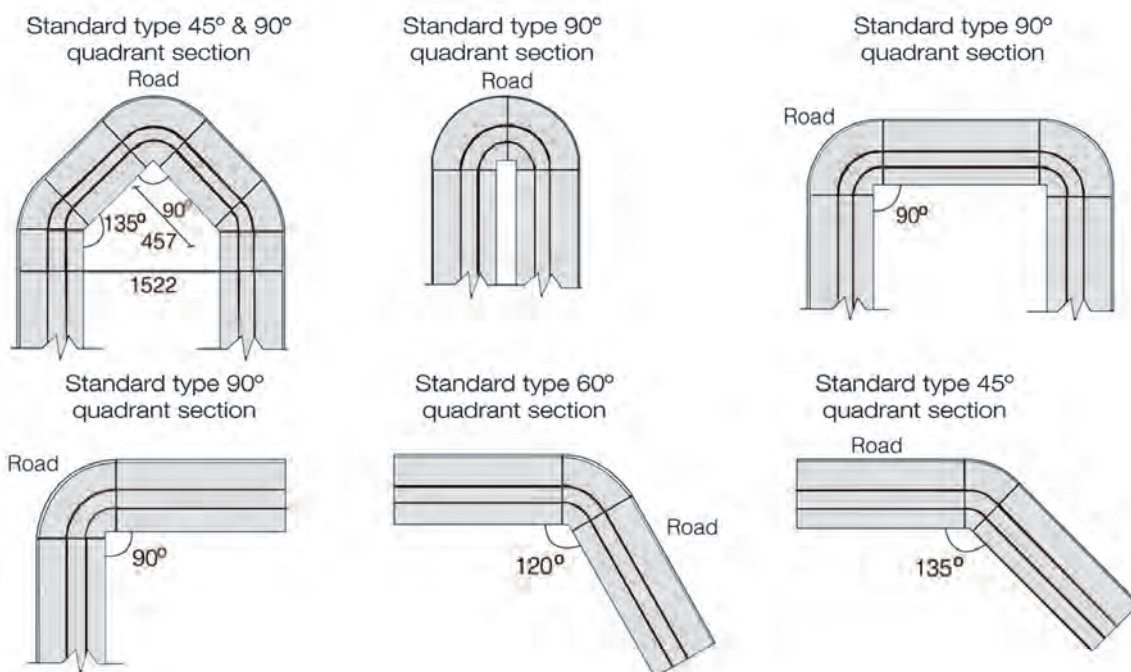
### INTERNAL CORNER

Ref: TM/111 [145kg]

- 90° CORNER



Our Traffic Management Kerb Quadrants and Corners are particularly suited for the construction of Traffic Roundabouts.

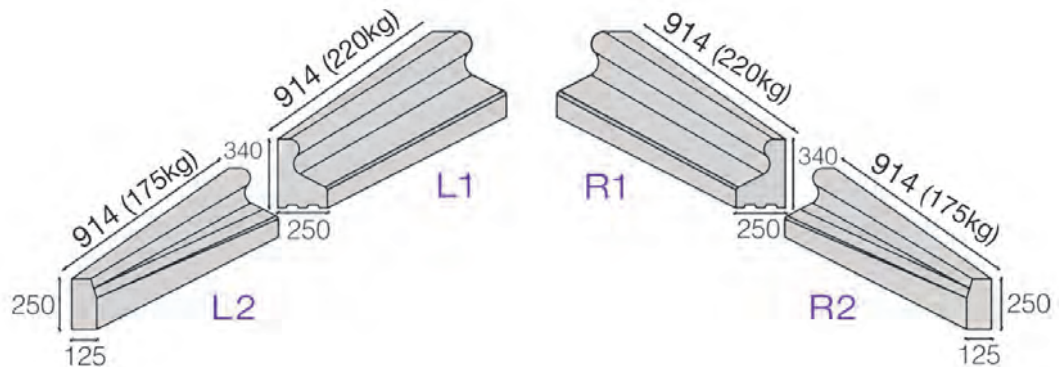


## TAPERS

To allow Killeshal's High Containment Kerbs to return to the normal lower profile of the roadside kerb, a taper unit has been developed. Tapering the Traffic Management Kerb profile to normal roadside kerb is completed in two units. The High Containment Kerbs match to half batter and splayed roadside kerb.

### Ref: T/105

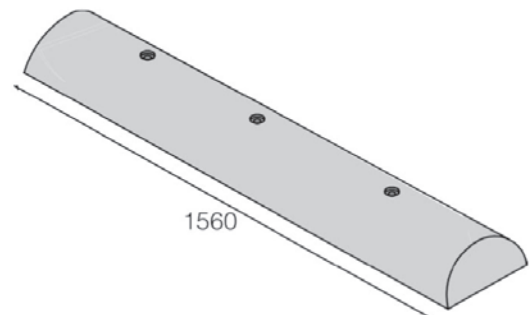
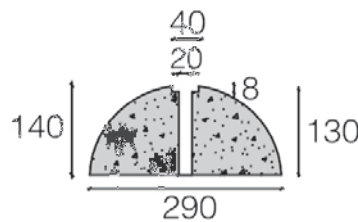
250 x 125 x 914mm  
 340 x 250 x 914mm  
 Other sizes available  
 on request



## WHEEL STOPS [114kg]

### Ref: COL/107a

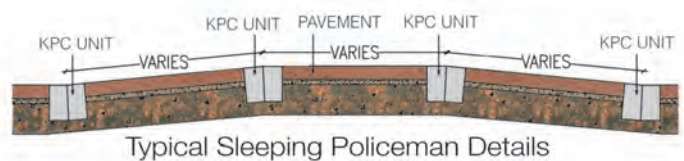
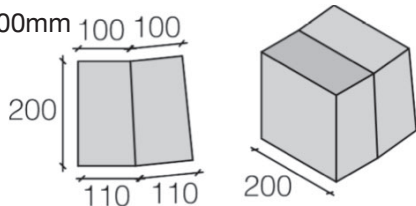
140 x 290 x 1560mm



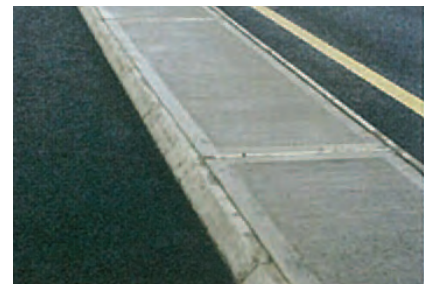
## SLEEPING POLICEMAN [20kg]

### Ref: K/139

200 x 220 x 200mm



KPC UNIT PAVEMENT KPC UNIT

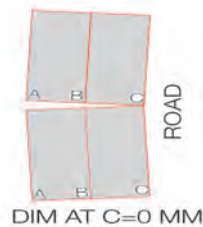




## SPECIFICATION FOR HIGH CONTAINMENT KERBS

### INTERNAL RADIUS

The table below shows the radii which can be accomplished using both standard and short lengths. The radii are obtained by adjusting the joint width. These radii would more often be used to form the outer boundaries of roundabouts.



#### Radius

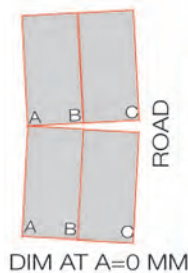
To assist the engineer and project planner, the details opposite illustrate how various radii can be achieved.

For technical details please contact Killeshal's customer service on +353 57 9353018

INTERNAL RADIUS						
RADIUS (M)	JOINT DIM 914 UNIT		JOINT DIM 457 UNIT		JOINT DIM 301 UNIT	
	AT B	AT A	AT B	AT A	AT B	AT A
3	N/A	N/A	N/A	N/A	N/A	N/A
6	N/A	N/A	13	28	9	19
9	N/A	N/A	9	19	6	13
12	13	28	7	14	4	9
15	11	23	5	11	4	8
18	9	19	4	10	3	6
21	8	16	4	8	3	5
24	7	14	3	7	2	5
27	6	13	3	6	2	4
30	5	11	3	6	2	4
33	5	10	2	5	2	3
36	4	10	2	5	1	3
39	4	9	2	4	1	3

### EXTERNAL RADIUS

The table below shows the radii which can be accomplished using both standard, special and short lengths. The radii are obtained by adjusting the joint width. These radii would more often be used to form the inner boundaries of roundabouts.



EXTERNAL RADIUS							
RADIUS (M)	JOINT DIM 914 UNIT		JOINT DIM 457 UNIT		JOINT DIM 301 UNIT		RADIUS (M)
	AT B	AT C	AT B	AT C	AT B	AT C	
3	N/A	N/A	N/A	N/A	N/A	N/A	1
6	N/A	N/A	N/A	N/A	11	20	1.5
9	N/A	N/A	11	20	7	13	2
12	N/A	N/A	8	15	5	10	2.5
15	12	23	6	12	4	8	3
18	10	19	5	10	3	6	3.5
21	9	17	4	8	3	5	4
24	8	15	4	7	3	5	4.5
27	7	13	3	6	2	4	N/A
30	6	12	3	6	2	4	N/A
33	6	11	3	5	2	3	N/A
36	5	10	3	5	2	3	N/A
39	5	9	2	4	2	3	N/A

## Compact Channel **KOMPAQDRAIN®** with **Max Flow®** system

ULMA ARCHITECTURAL SOLUTIONS

Specially designed for areas with high traffic density by **ULMA Architectural Solutions**, specialists in drainage system, this novel compact channel made of polymer concrete, is suitable up to load class F900, according to standard EN-1433.

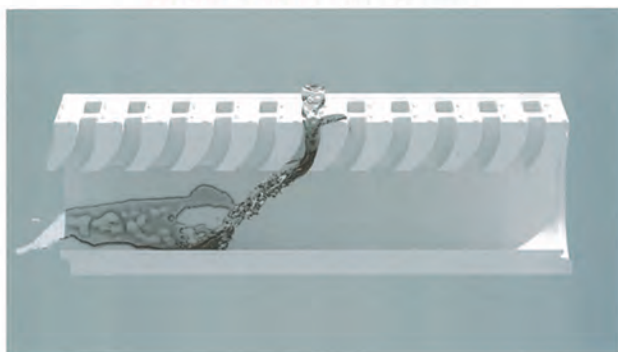
Motorways, airports, service stations and other intense traffic areas require high drainage and maximum safety, requirements to which **KOMPAQDRAIN®** responds with a combination of features that make it unique on the market.



### ADVANTAGES OF THE SYSTEM

1. COMPACT
2. LONG-LASTING AND RESISTANT
3. SELF-CLEANING
4. MAXIMUM SECURITY
5. QUICK INSTALLATION

### Max Flow® SYSTEM



### GRATING DESIGNS



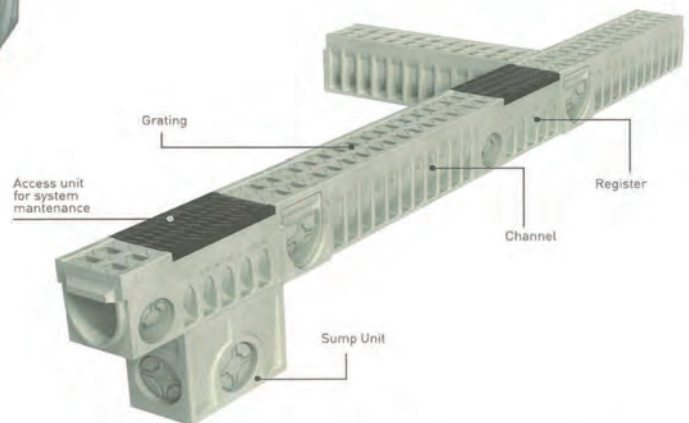
CIVIL / TRAFFIC



CITY



INDUSTRY

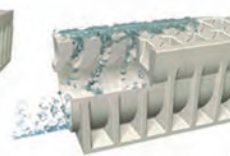


The original curved design of the inlets, together with the non-slip surface and water router, achieve the novel **Max Flow®** effect, **increasing the water speed and the drainage capacity**. Moreover, the progressive widening of the orifices helps the waste pass through more easily. Therefore **KOMPAQDRAIN®** can drain the same volume of water with a smaller channel.

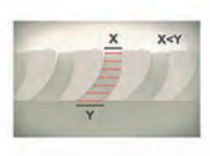
**KOMPAQDRAIN®** meets all requirements of the EN-1433 international standard of quality and reliability.



// CURVED DESIGN OF THE INLETS



// IT INCREASES THE WATER ENTRY SPEED AND THE DRAINAGE CAPACITY



// PROGRESSIVE WIDENING TO PREVENT DIRT BLOCKAGE

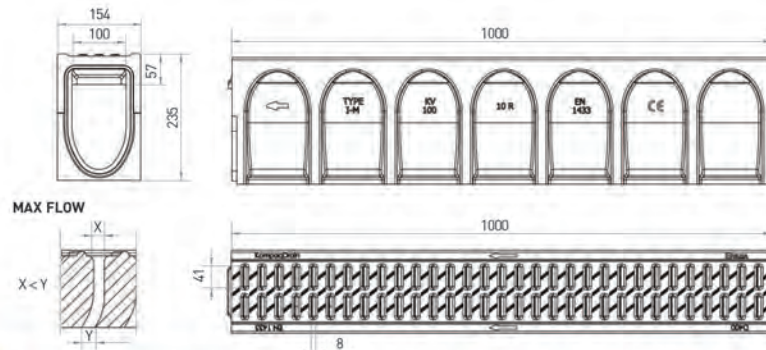
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## KOMPAQ100 CITY

Linear Drainage Channel model **ULMA KompaqDrain® City KVFDH100**, with an integral grating, presented in one-piece and manufactured by high resistant Polymer Concrete. Vandal – proof and corrosion resistant. Load class up to D-400, for all types' vehicles crossing and with reduced capture holes of 8mm. With "V" optimized shaped and capture holes with MAX-FLOW® geometry: self-cleaning effect at a low flow, increase at maximum flow and positive opening in order to avoid dirt blockage, for areas

without slope. Active surface for cutting of water sheet and for its driving to uptake holes and with non-slippery protuberances. Male and female horizontal and vertical alignment and perimetral preformed Groove to facilitate joint sealing in 360°. The register and the sump unit include: cast iron grating FN100FTDM, lateral preforms for horizontal outlets on each side and lateral preforms for connections in T, L and in cross.



### CHANNELS

Channel Code	Length (mm)	Height (mm)	Channel width (mm)		Weight (Kg)	Hydraul. Section (cm²)	Pcs. (x pallet)
			External	Internal			
KVDH100.10R	1000	235	154	100	32,6	139,5	28

### REGISTERS

Channel Code	L (mm)	Height (mm)	Channel width (mm)		Lateral Outlet (mm)	Vertical Outlet (mm)	T and + channel connection	Weight (Kg)	Hydraul. Section (cm²)	Pcs. (x pallet)
			Ext.	Int.						
AKVDH100MF10R	1000	235	154	100	110	110	YES	40	139,5	28

\* Standard cast iron edges, galvanized and stainless steel edges available.



AKVDH100MF10R

### SUMP UNITS

Sump Unit Code	L (mm)	Height (mm)	Channel width (mm)		Frontal Outlet (mm)	Lateral Outlet (mm)	Galvanized steel bucket	Weight (Kg)	Hydraul. Section (cm²)	Pcs. (x pallet)
			Ext.	Int.						
AKVDH100MF10RS	1000	235	154	100	-	110	110	-	139,5	28
AKVD100I	500	260	154	100	110	160	110	CKV100	17	24
AKVD100B	500	260	154	100	110	160	110	CKV100	19	24

\*\* The Sump unit can be higher incorporating an intermediate unit of 260 mm. AKVF200I.

\*\*\* More info about sump units and registers on page 8.



AKVDH100MF10RS



AKVD100B

### END CAPS

Channel	Code
KVDH100.10R	TKVDH100.10RAJ
	TKVDH100.10RC



### CONNECTORS

Channel	Code
KVDH100.10R	TCKVDH100.10RFFA
	TCKVDH100.10RMMA



### BUCKET

Code
CKV100



### STEP UNIT

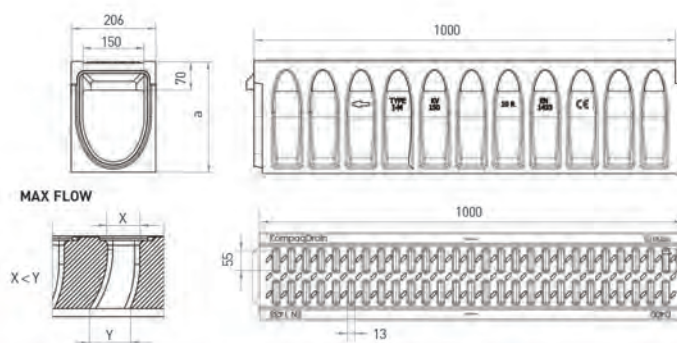
Code
CEKV100



## KOMPAQ150 CITY

Linear Drainage Channel model **ULMA KompagDrain® City KVFDH150**, with an integral grating, presented in one-piece and manufactured by high resistant Polymer Concrete. Vandal – proof and corrosion resistant. Load class up to D-400, for all types' vehicles crossing and with reduced capture holes of 12mm. With "V" optimized shaped and capture holes with MAX-FLOW® geometry: self-cleaning effect at a low flow, increase at maximum

flow and positive opening in order to avoid dirt blockage, for areas without slope. Active surface for cutting of water sheet and for its driving to uptake holes and with non-slippery protuberances. Male and female horizontal and vertical alignment and perimetral preformed Groove to facilitate joint sealing in 360°. The register and the sump unit include: cast iron grating FN150FTDM, lateral preforms for horizontal outlets on each side and lateral preforms for connections in T, L and in cross.



### CHANNELS

Channel Code	Length (mm)	Height (mm)	Channel width (mm)		Weight (kg)	Hydraul. Section (cm²)	Pcs. (x pallet)
			External	Internal			
KVFDH150.10R	1000	270	206	150	60	227	12
KVFDH150.20R	1000	370	206	150	70	377	12
KVFDH150.30R	1000	470	206	150	79	527	8

### REGISTERS

Channel Code	L. (mm)	Height (mm)	Channel width (mm)		Lateral Outlet (mm)	Vertical Outlet (mm)	T and + channel connection	Weight (kg)	Hydraul. Section (cm²)	Pcs. (x pallet)
			Ext.	Int.						
AKVFDH150MF10R	1000	270	206	150	160 160	160	YES	61	227	12
AKVFDH150MF20R	1000	370	206	150	315 200	160	YES	71	377	12
AKVFDH150MF30R	1000	470	206	150	315 315	160	YES	80	527	8

\* Standard cast iron edges, galvanized and stainless steel edges available.

### SUMP UNITS

Sump Unit Code	L. (mm)	Height (mm)	Channel width (mm)		Frontal Outlet (mm)	Lateral Outlet (mm)	Galvanized steel bucket	Weight (kg)	Hydraul. Section (cm²)	Pcs. (x pallet)
			Ext.	Int.						
AKVFDH150MF10RS	1000	270	206	150	-	160 160	-	58	227	12
AKVFDH150MF20RS	1000	370	206	150	-	315 200	-	67	377	12
AKVFDH150MF30RS	1000	470	206	150	-	315 315	-	76	527	8
AKVF150I	500	380	206	150	160	200 315	CKV150	30	-	16
AKVF150B	500	380	206	150	160	200 315	CKV150	33	-	16

\*\* The Sump unit can be higher incorporating an intermediate unit of 380 mm. AKVF150I

\*\*\* More info about sump units and registers on page 13.



AKVFDH150MF10R



AKVFDH150MF10RS



AKVF150B

### END CAPS

Channel	Code
KVFDH150.10R	TKVFDH150.10RAJ
	TKVFDH150.10RC
KVFDH150.20R	TKVFDH150.20RAJ
	TKVFDH150.20RC
KVFDH150.30R	TKVFDH150.30RAJ
	TKVFDH150.30RC



### CONNECTORS

Channel	Code
KVFDH150.10R	TCKVFDH150.10RFFA
	TCKVFDH150.10RMMA
KVFDH150.20R	TCKVFDH150.20RFFA
	TCKVFDH150.20RMMA
KVFDH150.30R	TCKVFDH150.30RFFA
	TCKVFDH150.30RMMA



### BUCKET

Code
CKV150



### STEP UNIT

Code
CEKV150



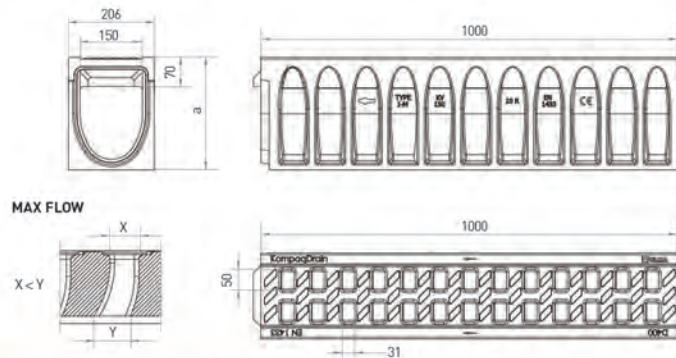
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## KOMPAQ150 TRAFFIC

Linear Drainage Channel model **ULMA KompagDrain® Traffic KVFD150**, with an integral grating, presented in one-piece and manufactured by high resistant Polymer Concrete. Vandal – proof and corrosion resistant. Load class up to D-400, for all types' vehicles crossing. With "V" optimized shaped and capture holes with MAX-FLOW® geometry: self-cleaning effect at a low flow, increase at maximum flow and positive opening in order to avoid

dirt blockage, for areas without slope. Active surface for cutting of water sheet and for its driving to uptake holes and with non-slippery protuberances. Male and female horizontal and vertical alignment and perimeteral preformed groove to facilitate joint sealing in 360°. The register and the sump unit include: cast iron grating FN150FTDM, lateral preforms for horizontal outlets on each side and lateral preforms for connections in T, L and in cross.



### CHANNELS

Channel Code	Length (mm)	Height (mm)	Channel width (mm)		Weight (Kg)	Hydraul. Section (cm²)	Pcs. (x pallet)
			External	Internal			
KVFD150.10R	1000	270	206	150	57	227	12
KVFD150.20R	1000	370	206	150	67	377	12
KVFD150.30R	1000	470	206	150	78	527	8

### REGISTERS

Channel Code	L. (mm)	Height (mm)	Channel width (mm)		Lateral Outlet (mm)	Vertical Outlet (mm)	T and + channel connection	Weight (Kg)	Hydraul. Section (cm²)	Pcs. (x pallet)
			Ext.	Int.						
AKVFD150MF10R	1000	270	206	150	160	160	YES	57,7	227	12
AKVFD150MF20R	1000	370	206	150	315	200	YES	68	377	12
AKVFD150MF30R	1000	470	206	150	315	315	YES	79	527	8

\* Standard cast iron edges, galvanized and stainless steel edges available.



AKVFD150MF10R

### SUMP UNITS

Sump Unit Code	L. (mm)	Height (mm)	Channel width (mm)		Frontal Outlet (mm)	Lateral Outlet (mm)	Galvanized steel bucket	Weight (Kg)	Hydraul. Section (cm²)	Pcs. (x pallet)
			Ext.	Int.						
AKVFD150MF10RS	1000	270	206	150	-	160	-	54	227	12
AKVFD150MF20RS	1000	370	206	150	-	315	200	64	377	12
AKVFD150MF30RS	1000	470	206	150	-	315	315	75	527	8
AKVF150I	500	380	206	150	160	200	CKV150	30	-	16
AKVF150B	500	380	206	150	160	200	CKV150	33	-	16

\*\* The Sump unit can be higher incorporating an intermediate unit of 380 mm. AKVF150I

\*\*\* More info about sump units and registers on page 13.



AKVFD150MF10RS



AKVF150B

### END CAPS

Channel	Code
KVFD150.10R	TKVFD150.10RAJ
	TKVFD150.10RC
KVFD150.20R	TKVFD150.20RAJ
	TKVFD150.20RC
KVFD150.30R	TKVFD150.30RAJ
	TKVFD150.30RC



### CONNECTORS

Channel	Code
KVFD150.10R	TCKVFD150.10RFFA
	TCKVFD150.10RMMA
KVFD150.20R	TCKVFD150.20RFFA
	TCKVFD150.20RMMA
KVFD150.30R	TCKVFD150.30RFFA
	TCKVFD150.30RMMA



### BUCKET

Code
CKV150



### STEP UNIT

Code
CEKV150



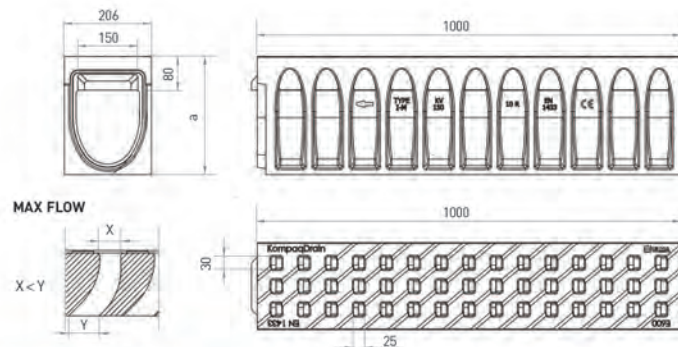
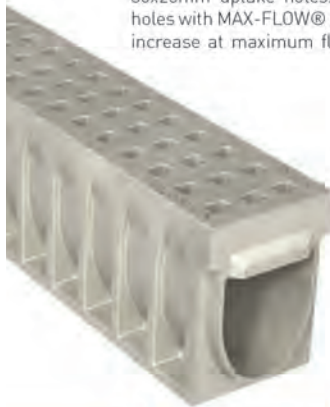
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## KOMPAQ150 INDUSTRY

Linear Drainage Channel model **ULMA KompaqDrain® Industry KVE150**, with an integral grating, presented in one-piece and manufactured by high resistant Polymer Concrete. Vandal – proof and corrosion resistant. Load class up to E-600 with surface design without protuberances to avoid vibrations in crossing vehicles, 30x25mm uptake holes. With "V" optimized shaped and capture holes with MAX-FLOW® geometry: self-cleaning effect at a low flow, increase at maximum flow and positive opening in order to avoid

dirt blockage, for areas without slope. Active surface for cutting of water sheet and for its driving to uptake holes and with non-slippery protuberances. Male and female horizontal and vertical alignment and perimetral preformed Groove to facilitate joint sealing in 360°. The register and the sump unit include: cast iron grating FN150FTEM, lateral preforms for horizontal outlets on each side and lateral preforms for connections in T, L and in cross.



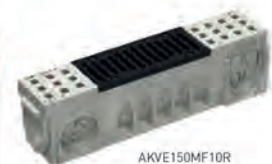
### CHANNELS

Channel Code	Length [mm]	Height [mm]	Channel width [mm]		Weight [Kg]	Hydraul. Section [cm²]	Pcs. (x pallet)
			External	Internal			
KVE150.10R	1000	280	206	150	59	227	12
KVE150.20R	1000	380	206	150	69	377	12
KVE150.30R	1000	480	206	150	80	527	8

### REGISTERS

Channel Code	L. [mm]	Height [mm]	Channel width [mm]		Lateral Outlet [mm]	Vertical Outlet [mm]	T and + channel connection	Weight [Kg]	Hydraul. Section [cm²]	Pcs. (x pallet)
			Ext.	Int.						
AKVE150MF10R	1000	280	206	150	160	160	YES	59	227	12
AKVE150MF20R	1000	380	206	150	315	200	YES	70	377	12
AKVE150MF30R	1000	480	206	150	315	315	YES	80	527	8

\* Standard cast iron edges, galvanized and stainless steel edges available.



AKVE150MF10R

### SUMP UNITS

Sump Unit Code	L. [mm]	Height [mm]	Channel width [mm]		Frontal Outlet [mm]	Lateral Outlet [mm]	Galvanized steel bucket	Weight [Kg]	Hydraul. Section [cm²]	Pcs. (x pallet)
			Ext.	Int.						
AKVE150MF10RS	500	280	206	150	-	160	-	228	227	12
AKVE150MF20RS	500	380	206	150	-	315	-	379	377	12
AKVE150MF30RS	500	480	206	150	-	315	-	530	527	8
AKVF150I	500	380	206	150	160	200	CKV150	30	-	16
AKVF150B	500	380	206	150	160	200	CKV150	33	-	16

\*\* The Sump unit can be higher incorporating an intermediate unit of 380 mm. AKVF150I

\*\*\* More info about sump units and registers on page 13.



AKVE150MF10RS



AKVF150B

### END CAPS

Channel	Code
KVE150.10R	TKVE150.10RAJ
	TKVE150.10RC
KVE150.20R	TKVE150.20RAJ
	TKVE150.20RC
KVE150.30R	TKVE150.30RAJ
	TKVE150.30RC



### CONNECTORS

Channel	Code
KVE150.10R	TCKVE150.10RFFA
	TCKVE150.10RMMA
KVE150.20R	TCKVE150.20RFFA
	TCKVE150.20RMMA
KVE150.30R	TCKVE150.30RFFA
	TCKVE150.30RMMA



### BUCKET

Code
CKV150



### STEP UNIT

Code
CEKV150



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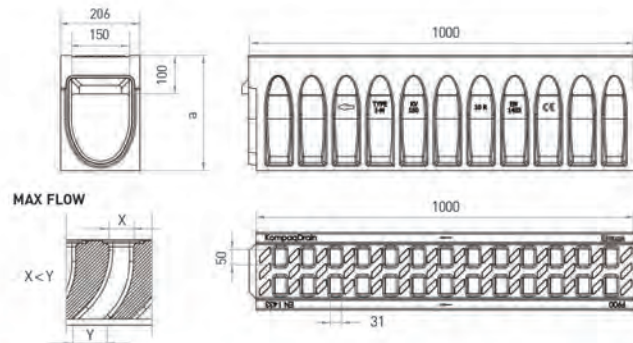
## KOMPAQ150 CIVIL

Linear Drainage Channel model **ULMA KompaqDrain® Civil KVF150**, with an integral grating, presented in one-piece and manufactured by high resistant Polymer Concrete. Vandal – proof and corrosion resistant.

Load class up to F-900, for heavy loads. With "V" optimized shaped and capture holes with MAX-FLOW® geometry: self-cleaning effect at a low flow, increase at maximum flow and positive opening in order to avoid dirt blockage, for areas without slope. Active surface

for cutting of water sheet and for its driving to uptake holes and with non-slippery protuberances. Male and female horizontal and vertical alignment and perimetral preformed Groove to facilitate joint sealing in 360°.

The register and the sump unit include: cast iron grating FN150FTFM, lateral preforms for horizontal outlets on each side and lateral preforms for connections in T, L and in cross.



### CHANNELS

Channel Code	Length [mm]	Height [mm]	Channel width [mm]		Weight [Kg]	Hydraul. Section [cm²]	Pcs. (x pallet)
			External	Internal			
KVF150.10R	1000	300	206	150	65	227	12
KVF150.20R	1000	400	206	150	75	377	12
KVF150.30R	1000	500	206	150	84	527	8

### REGISTERS

Channel Code	L [mm]	Height [mm]	Channel width [mm]		Lateral Outlet [mm]	Vertical Outlet [mm]	T and + channel connection	Weight [Kg]	Hydraul. Section [cm²]	Pcs. (x pallet)
			Ext.	Int.						
AKVF150MF10R	1000	300	206	150	160	160	YES	69	227	12
AKVF150MF20R	1000	400	206	150	200	200	YES	79	377	12
AKVF150MF30R	1000	500	206	150	315	315	YES	89	527	8

\* Standard cast iron edges, galvanized and stainless steel edges available.



### SUMP UNITS

Sump Unit Code	L [mm]	Height [mm]	Channel width [mm]		Frontal Outlet [mm]	Lateral Outlet [mm]	Galvanized steel bucket	Weight [Kg]	Hydraul. Section [cm²]	Pcs. (x pallet)
			Ext.	Int.						
AKVF150MF10RS	1000	300	206	150	-	160	-	66	227	12
AKVF150MF20RS	1000	400	206	150	-	315	-	76	377	12
AKVF150MF30RS	1000	500	206	150	-	315	-	86	527	8
AKVF150I	500	380	206	150	160	200	CKV150	30	-	16
AKVF150B	500	380	206	150	160	200	CKV150	33	-	16

\*\* The Sump unit can be higher incorporating an intermediate unit of 380 mm. AKVF150I

\*\*\* More info about sump units and registers on page 13.



### END CAPS

Channel	Code
KVF150.10R	TKVF150.10RAJ TKVF150.10RC
KVF150.20R	TKVF150.20RAJ TKVF150.20RC
KVF150.30R	TKVF150.30RAJ TKVF150.30RC



### CONNECTORS

Channel	Code
KVF150.10R	TCKVF150.10RFFA TCKVF150.10RMMA
KVF150.20R	TCKVF150.20RFFA TCKVF150.20RMMA
KVF150.30R	TCKVF150.30RFFA TCKVF150.30RMMA



### BUCKET

Code
CKV150



### STEP UNIT

Code
CEKV150

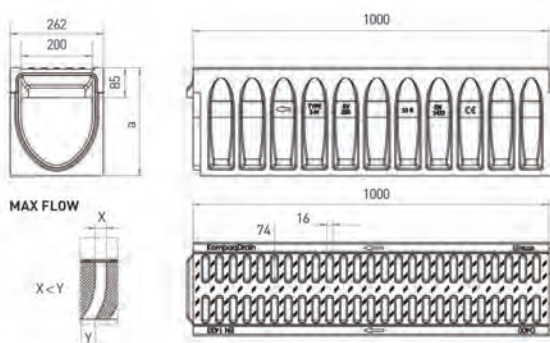


## KOMPAQ200 CITY

Linear Drainage Channel model **ULMA KompaqDrain® City KVFDH200** with an integral grating, presented in one-piece and manufactured by high resistant Polymer Concrete. Vandal – proof and corrosion resistant. Load class up to D-400, for all types' vehicles crossing and with reduced capture holes of 16mm. With "V" optimized shaped and capture holes with MAX-FLOW® geometry: self-cleaning effect at a low flow, increase at maximum flow and positive opening in order to avoid dirt blockage, for areas without

slope. Active surface for cutting of water sheet and for its driving to uptake holes and with non-slippery protuberances. Male and female horizontal and vertical alignment and perimetral preformed Groove to facilitate joint sealing in 360°.

The register and the sump unit include: cast iron grating FN200FTDM, lateral preforms for horizontal outlets on each side and lateral preforms for connections in T, L and in cross.



### CHANNELS

Channel Code	Length (mm)	Height (mm)	Channel width (mm)		Weight (Kg)	Hydraul. Section (cm²)	Pcs. (x pallet)
			External	Internal			
KVFDH200.10R	1000	305	262	200	79	318	12
KVFDH200.30R	1000	505	262	200	101	718	8
KVFDH200.50R	1000	705	262	200	131	1118	8

### REGISTERS

Channel Code	L. (mm)	Height (mm)	Channel width (mm)		Lateral Outlet (mm)	Vertical Outlet (mm)	T and + channel connection	Weight (Kg)	Hydraul. Section (cm²)	Pcs. (x pallet)
			Ext.	Int.						
AKVFDH200MF10R	1000	305	262	200	160	160	YES	81	318	12
AKVFDH200MF30R	1000	505	262	200	315	315	YES	105	718	8
AKVFDH200MF50R	1000	705	262	200	400	400	YES	135	1118	8

\* Standard cast iron edges, galvanized and stainless steel edges available.

### SUMP UNITS

Sump Unit Code	L. (mm)	Height (mm)	Channel width (mm)		Frontal Outlet (mm)	Lateral Outlet (mm)	Galvanized steel bucket	Weight (Kg)	Hydraul. Section (cm²)	Pcs. (x pallet)
			Ext.	Int.						
AKVFDH200MF10RS	1000	305	262	200	-	160	-	75	318	12
AKVFDH200MF30RS	1000	505	262	200	-	315	-	99	718	8
AKVFDH200MF50RS	1000	705	262	200	-	400	-	129	1118	8
AKVF200I	500	380	262	200	200	200	CKV200	34	-	16
AKVF200B	500	380	262	200	200	200	CKV200	38	-	16

\*\* The Sump unit can be higher incorporating an intermediate unit of 380 mm. AKVF200I.

\*\*\* More info about sump units and registers on page 18.



### END CAPS

Channel	Code
KVFDH200.10R	TKVFDH200.10RAJ TKVFDH200.10RC
KVFDH200.30R	TKVFDH200.30RAJ TKVFDH200.30RC
KVFDH200.50R	TKVFDH200.50RAJ TKVFDH200.50RC



### CONNECTORS

Channel	Code
KVFDH200.10R	TCKVFDH200.10RFFA TCKVFDH200.10RMMA
KVFDH200.30R	TCKVFDH200.30RFFA TCKVFDH200.30RMMA
KVFDH200.50R	TCKVFDH200.50RFFA TCKVFDH200.50RMMA



### BUCKET

Code
CKV200



### STEP UNIT

Code
CEKV200



Scan for  
Catalogue

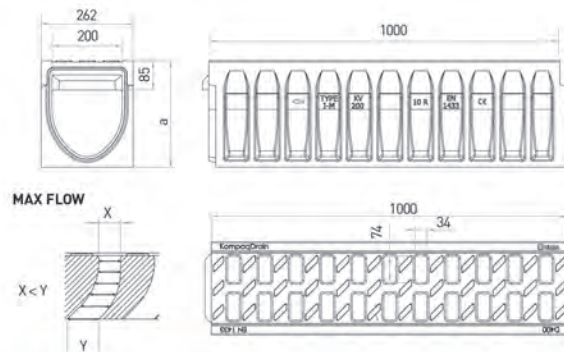
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## KOMPAQ200 TRAFFIC

Linear Drainage Channel model **ULMA KompaqDrain® Traffic KVFD200**, with an integral grating, presented in one-piece and manufactured by high resistant Polymer Concrete. Vandal – proof and corrosion resistant. Load class up to D-400, for all types' vehicles crossing. With "V" optimized shaped and capture holes with MAX-FLOW® geometry: self-cleaning effect at a low flow, increase at maximum flow and positive opening in order to avoid

dirt blockage, for areas without slope. Active surface for cutting of water sheet and for its driving to uptake holes and with non-slippery protuberances. Male and female horizontal and vertical alignment and perimetral preformed Groove to facilitate joint sealing in 360°. The register and the sump unit include: cast iron grating FNK200FTDM, lateral preforms for horizontal outlets on each side and lateral preforms for connections in T, L and in cross.



### CHANNELS

Channel Code	Length (mm)	Height (mm)	Channel width (mm)		Weight (Kg)	Hydraul. Section (cm²)	Pcs. (x pallet)
			External	Internal			
KVFD200.10R	1000	305	262	200	78	318	12
KVFD200.30R	1000	505	262	200	101	718	8
KVFD200.50R	1000	705	262	200	131	1118	8

### REGISTERS

Channel Code	L. (mm)	Height (mm)	Channel width (mm)		Lateral Outlet (mm)	Vertical Outlet (mm)	T and + channel connection	Weight (Kg)	Hydraul. Section (cm²)	Pcs. (x pallet)
			Ext.	Int.						
AKVFD200MF10R	1000	305	262	200	160 160	160	YES	80	318	12
AKVFD200MF30R	1000	505	262	200	315 315	200	YES	104	718	8
AKVFD200MF50R	1000	705	262	200	400 400	200	YES	135	1118	8

\* Standard cast iron edges, galvanized and stainless steel edges available.



### SUMP UNITS

Sump Unit Code	L. (mm)	Height (mm)	Channel width (mm)		Frontal Outlet (mm)	Lateral Outlet (mm)	Galvanized steel bucket	Weight (Kg)	Hydraul. Section (cm²)	Pcs. (x pallet)
			Ext.	Int.						
AKVFD200MF10RS	1000	305	262	200	-	160 160	-	74	318	12
AKVFD200MF30RS	1000	505	262	200	-	315 315	-	98	718	8
AKVFD200MF50RS	1000	705	262	200	-	400 400	-	128	1118	8
AKVF200I	500	380	262	200	200	200 315	CKV200	34	-	16
AKVF200B	500	380	262	200	200	200 315	CKV200	38	-	16

\*\* The Sump unit can be higher incorporating an intermediate unit of 380 mm, AKVF200I.

\*\*\* More info about sump units and registers on page 18.



### END CAPS

Channel	Code
KVFD200.10R	TKVFD200.10RAJ
	TKVFD200.10RC
KVFD200.30R	TKVFD200.30RAJ
	TKVFD200.30RC
KVFD200.50R	TKVFD200.50RAJ
	TKVFD200.50RC



### CONNECTORS

Channel	Code
KVFD200.10R	TCKVFD200.10RFFA
	TCKVFD200.10RMMA
KVFD200.30R	TCKVFD200.30RFFA
	TCKVFD200.30RMMA
KVFD200.50R	TCKVFD200.50RFFA
	TCKVFD200.50RMMA



### BUCKET

Code
CKV200



### STEP UNIT

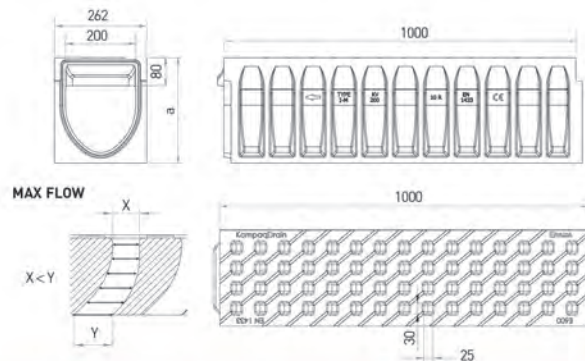
Code
CEKV200



## KOMPAQ200 INDUSTRY

Linear Drainage Channel model **ULMA KompaqDrain® Industry KVE200**, with an integral grating, presented in one-piece and manufactured by high resistant Polymer Concrete. Vandal – proof and corrosion resistant. Load class up to E-600 with surface design without protuberances to avoid vibrations in crossing vehicles, 30x25mm uptake holes. With "V" optimized shaped and capture holes with MAX-FLOW® geometry: self-cleaning effect at a low flow, increase at maximum flow and positive opening in order to avoid

dirt blockage, for areas without slope. Active surface for cutting of water sheet and for its driving to uptake holes and with non-slippery protuberances. Male and female horizontal and vertical alignment and perimetral preformed Groove to facilitate joint sealing in 360°. The register and the sump unit include: cast iron grating FN200FTEM, lateral preforms for horizontal outlets on each side and lateral preforms for connections in T, L and in cross.



### CHANNELS

Channel Code	Length (mm)	Height (mm)	Channel width (mm)		Weight (Kg)	Hydraul. Section (cm²)	Pcs. (x pallet)
			External	Internal			
KVE200.10R	1000	300	262	200	81	318	12
KVE200.30R	1000	500	262	200	104	718	8
KVE200.50R	1000	700	262	200	134	1118	8

### REGISTERS

Channel Code	L (mm)	Height (mm)	Channel width (mm)		Lateral Outlet (mm)	Vertical Outlet (mm)	T and + channel connection	Weight (Kg)	Hydraul. Section (cm²)	Pcs. (x pallet)
			Ext.	Int.						
AKVE200MF10R	1000	300	262	200	160	160	YES	82	318	12
AKVE200MF30R	1000	500	262	200	315	315	YES	106	718	8
AKVE200MF50R	1000	700	262	200	400	400	YES	137	1118	8

\* Standard cast iron edges, galvanized and stainless steel edges available.



### SUMP UNITS

Sump Unit Code	L (mm)	Height (mm)	Channel width (mm)		Frontal Outlet (mm)	Lateral Outlet (mm)	Galvanized steel bucket	Weight (Kg)	Hydraul. Section (cm²)	Pcs. (x pallet)
			Ext.	Int.						
AKVE200MF10RS	1000	300	262	200	-	160	-	76	318	12
AKVE200MF30RS	1000	500	262	200	-	315	-	100	718	8
AKVE200MF50RS	1000	700	262	200	-	400	-	130	1118	8
AKVF200I	500	380	262	200	200	200	CKV200	34	-	16
AKVF200B	500	380	262	200	200	200	CKV200	38	-	16

\*\* The Sump unit can be higher incorporating an intermediate unit of 380 mm, AKVF200I.

\*\*\* More info about sump units and registers on page 18.



### END CAPS

Channel	Code
KVE200.10R	TKVE200.10RAJ TKVE200.10RC
KVE200.30R	TKVE200.30RAJ TKVE200.30RC
KVE200.50R	TKVE200.50RAJ TKVE200.50RC



### CONNECTORS

Channel	Code
KVE200.10R	TCKVE200.10RFFA TCKVE200.10RMMA
KVE200.30R	TCKVE200.30RFFA TCKVE200.30RMMA
KVE200.50R	TCKVE200.50RFFA TCKVE200.50RMMA



### BUCKET

Code
CKV200



### STEP UNIT

Code
CEKV200



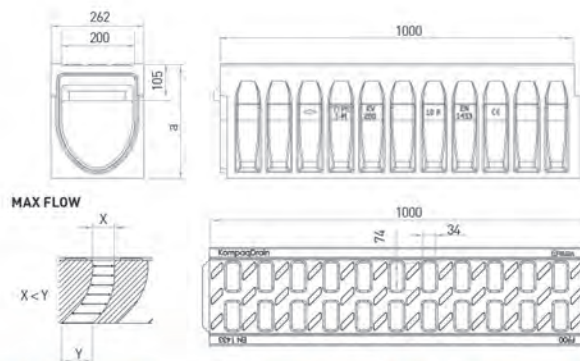
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## KOMPAQ200 CIVIL

Linear Drainage Channel model **ULMA KompaqDrain® Civil KVF200**, with an integral grating, presented in one-piece and manufactured by high resistant Polymer Concrete, Vandal – proof and corrosion resistant. Load class up to F-900 for high loads. With “V” optimized shaped and capture holes with MAX-FLOW® geometry: self-cleaning effect at a low flow, increase at maximum flow and positive opening in order to avoid dirt blockage, for areas

without slope. Active surface for cutting of water sheet and for its driving to uptake holes and with non-slippery protuberances. Male and female horizontal and vertical alignment and perimetral preformed Groove to facilitate joint sealing in 360°. The register and the sump unit include cast iron grating FN200FTM, lateral preforms for horizontal outlets on each side and lateral preforms for connections in T, L and in cross.



### CHANNELS

Channel Code	Length (mm)	Height (mm)	Channel width (mm)		Weight (Kg)	Hydraul. Section (cm²)	Pcs. (x pallet)
			External	Internal			
KVF200.10R	1000	325	262	200	88	318	12
KVF200.30R	1000	525	262	200	111	718	8
KVF200.50R	1000	725	262	200	141	1118	8

### REGISTERS

Channel Code	L. (mm)	Height (mm)	Channel width (mm)		Lateral Outlet (mm)	Vertical Outlet (mm)	T and + channel connection	Weight (Kg)	Hydraul. Section (cm²)	Pcs. (x pallet)
			Ext.	Int.						
AKVF200MF10R	1000	325	262	200	160 160	160	YES	90	318	12
AKVF200MF30R	1000	525	262	200	315 315	200	YES	115	718	8
AKVF200MF50R	1000	725	262	200	400 400	200	YES	145	1118	8

\* Standard cast iron edges, galvanized and stainless steel edges available.



AKVF200MF10R

### SUMP UNITS

Sump Unit Code	L. (mm)	Height (mm)	Channel width (mm)		Frontal Outlet (mm)	Lateral Outlet (mm)	Galvanized steel bucket	Weight (Kg)	Hydraul. Section (cm²)	Pcs. (x pallet)
			Ext.	Int.						
AKVF200MF10RS	1000	325	262	200	-	160 160	-	84	318	12
AKVF200MF30RS	1000	525	262	200	-	315 315	-	108	718	8
AKVF200MF50RS	1000	725	262	200	-	400 400	-	138	1118	8
AKVF200I	500	380	262	200	200	200 315	CKV200	34	-	16
AKVF200B	500	380	262	200	200	200 315	CKV200	38	-	16

\*\* The Sump unit can be higher incorporating an intermediate unit of 380 mm. AKVF200I.

\*\*\*\* More info about sump units and registers on page 18.



AKVF200MF10RS



AKVF200B

### END CAPS

Channel	Code
KVF200.10R	TKVF200.10RAJ TKVF200.10RC
KVF200.30R	TKVF200.30RAJ TKVF200.30RC
KVF200.50R	TKVF200.50RAJ TKVF200.50RC



### CONNECTORS

Channel	Code
KVF200.10R	TCKVF200.10RFFA TCKVF200.10RMMA
KVF200.30R	TCKVF200.30RFFA TCKVF200.30RMMA
KVF200.50R	TCKVF200.50RFFA TCKVF200.50RMMA



### BUCKET

Code
CKV200



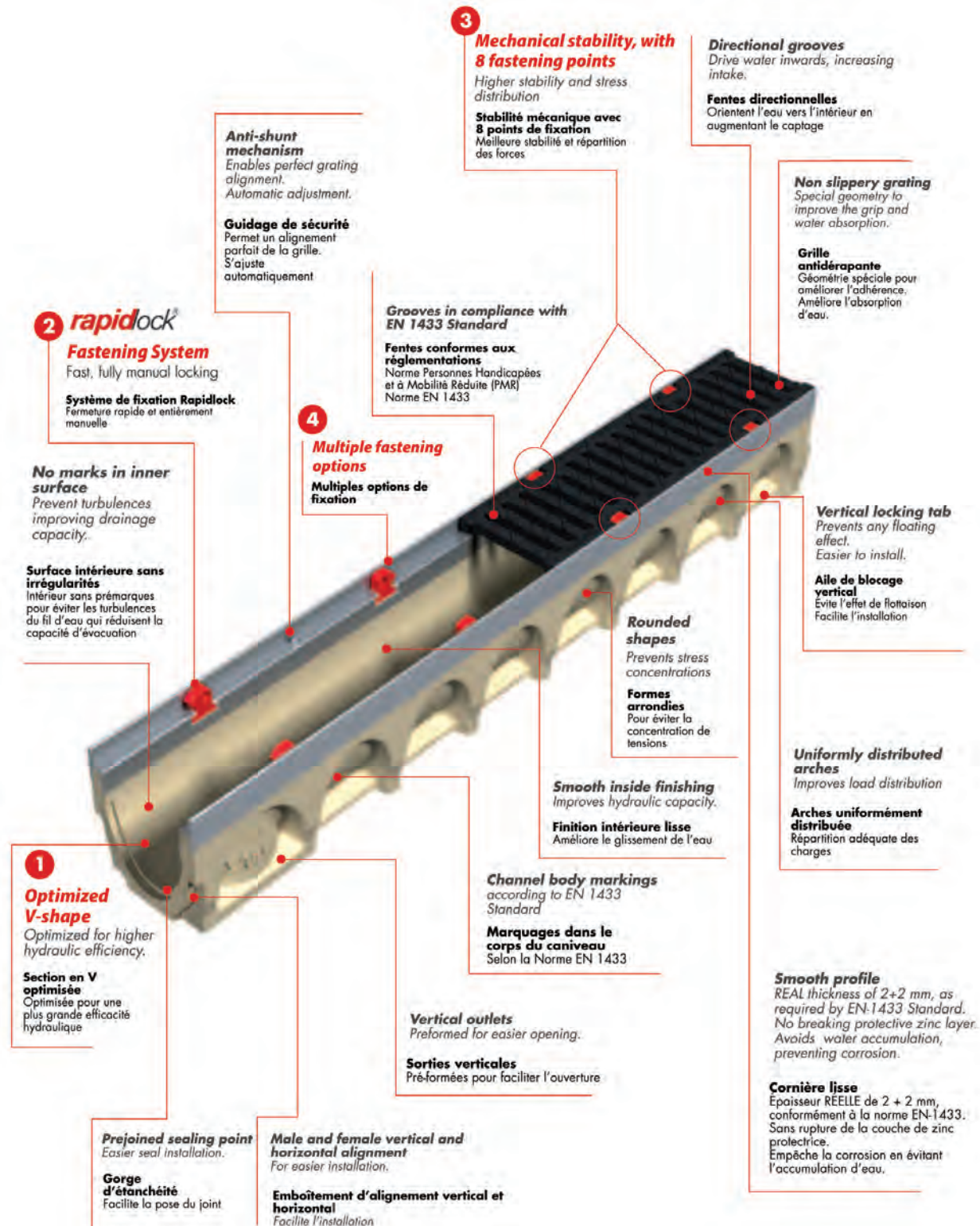
### STEP UNIT

Code
CEKV200



## ADVANTAGES OF THE multiV+ SYSTEM

### MULTI V+ SYSTEM



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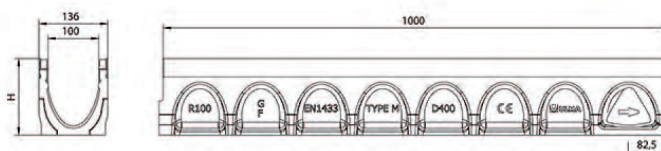


## multiV+ 100



C. RÉSISTANCE  
JUSQU'À D400  
Selon NORME EN-1433

LOAD CLASS  
UP TO D400  
EN-1433 Standard



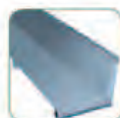
CODE	L (mm)	H (mm)	LARGEUR / WIDTH (mm)		Ø SORTIE / OUTLET (mm)*		HIDRAUL SECTION (cm <sup>2</sup> )	UNITÉS x PALETTE PCS x PALLET
			Z	X	Vert.	Horiz.		
R100GH8**	1000	80	136	100	110	-	40	90
R100G00R	1000	100	136	100	110	-	56	90
R100G10R	1000	150	136	100	110	-	91,5	75
R100G20R	1000	200	136	100	110	-	133	60
R100G30R	1000	250	136	100	110	-	176	45
R100G40R	1000	300	136	100	110	-	220	45

\*Sorties vert. sur commande. / Vert. outlets on order.

\*\*Section en forme de U / U shaped section

### TECHNICAL DESCRIPTION

ULMA Linear Drainage Channel, type **multiV+®** R100G; External width 136mm, Internal width 100mm, with overall heights between 80 and 300mm; suitable for cascade-type slopes to collect rainwater; sections 1 LM in length; optimised V-shape with self-cleaning effect; especially designed for channel runs with no longitudinal slope; galvanised steel edges for lateral protection; **RapidLock®**, fast, boltless fastening system with 8 fastening points per LM; suitable for use with the following gratings:



Fente  
Single Slot



Nervurée / Slotted

#### GRILLES / GRATINGS

MATÉRIE MATERIAL	DESSIN DESIGN	RÉSIST. LOAD CLASS	CODE	L (mm)	LARGEUR WIDTH (mm)	HAUTEUR HEIGHT (mm)	UNITÉS x ML UNITS x LM
FONTE DUCTILE IRON	NERV. / SLOT.	C 250	FNHX100RGCM	500	127	-	2
	NERV. / SLOT.	D 400	FN100RGDM	500	127	-	2
ACIER GALVANISÉ GALVANIZED STEEL	FENTE SINGLE SLOT	D 400	GRL100ROD	1000	131	105(1)	1

(1) La hauteur de la grille correspond à la partie qui ressort du bord supérieur de la feuillure.  
The grating height corresponds to the part that extends out from the top edge of the profile.

#### SYSTÈME DE FIXATION / LOCKING SYSTEM



**rapidlock®** FERMETURE RAPIDE DE SÉCURITÉ SANS BOULONS. 8 fixations par mètre linéaire.  
FAST, BOLTLESS SAFETY LOCKING 8 fastening points per linear meter



AR100G

#### AVALOIR ET ACCESSOIRES / SUMP UNITS AND ACCESSORIES TABLE

CODE	L (mm)	H (mm)	LARGEUR WIDTH (mm)	Ø SORTIE / OUTLET (mm)		CORPS SUMP UNITS
				LATERAL	FRONT	
AR100G	500	490	136	110/160	110	1



Fermé / Closed



Ouvert / Open

#### OBTURATEURS / END CAPS

CANIVEAU CHANNEL	CODE	TYPE	Ø (mm)
R100GH8	TR100H8C	FERMÉ / CLOSED	-
R100G00R	TR10000C	FERMÉ / CLOSED	-
R100G10R	TR10010C	FERMÉ / CLOSED	-
	TR10010A	OUVERT / OPEN	-
R100G20R	TR10020C	FERMÉ / CLOSED	110
	TR10020A	OUVERT / OPEN	-
R100G30R	TR10030C	FERMÉ / CLOSED	110
	TR10030A	OUVERT / OPEN	110
R100G40R	TR10040C	FERMÉ / CLOSED	-
	TR10040A	OUVERT / OPEN	110



#### PANIER / GALVANIZED STEEL BUCKET

CODE
CR100



#### SABOT DE RACCORDEMENTS / STEP UNITS

CODE
CER100

#### TYPES DE PENTE / SLOPE DESIGNS





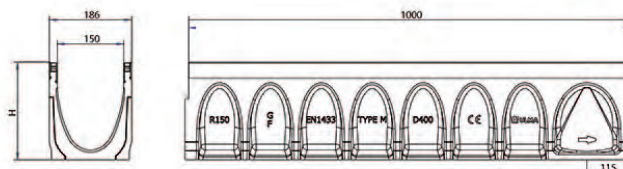


## multiV+ 150



C. RÉSISTANCE  
JUSQU'À D400  
Selon NORME EN-1433

LOAD CLASS  
UP TO D400  
EN-1433 Standard



CODE	L (mm)	H (mm)	LARGEUR / WIDTH (mm)		Ø SORTIE / OUTLET (mm)*		HIDRAUL SECTION (cm²)	UNITÉS x PALETTE PCS x PALLET
			Z	X	Vert.	Horiz.		
R150GH8**	1000	80	186	150	160	-	60	81
R150GH12**	1000	120	186	150	160	-	119	72
R150G00R	1000	170	186	150	160	-	156	45
R150G10R	1000	220	186	150	160	-	218	36
R150G20R	1000	270	186	150	160	-	283	36
R150G30R	1000	320	186	150	160	-	350	27

\*Sorties vert. sur commande. / Vert. outlets on order

\*\*Section en forme de U / U shaped section.

### TECHNICAL DESCRIPTION

ULMA Linear Drainage Channel, type **multiV+®** R150G; External width 186mm, Internal width 150mm, with overall heights between 80 and 320mm; suitable for cascade-type slopes to collect rainwater; sections 1 LM in length; optimised V-shape with self-cleaning effect; especially designed for channel runs with no longitudinal slope; galvanised steel edges for lateral protection; **RapidLock®**, fast, boltless fastening system with 8 fastening points per LM; suitable for use with the following gratings:



Fente  
Single Slot



Nervurée / Slotted

### GRILLES / GRATINGS

MATIERE MATERIAL	DÉSSIN DESIGN	RÉSIST. LOAD	CODE	L (mm)	LARGEUR WIDTH (mm)	HAUTEUR HEIGHT (mm)	UNITÉS x ML UNITS x LM
FONTE DUCTILE IRON	NERV. / SLOT	C 250	FNH150RGCM	500	177	-	2
		D 400	FN150RGDM	500	177	-	2
ACIER GALVANISÉ GALVANIZED STEEL	FENTE SINGLE SLOT	D 400	GRL150R0D	1000	181	105(1)	1

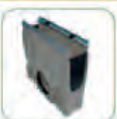
(1) La hauteur de la grille correspond à la partie qui ressort du bord supérieur de la feuillure.  
The grating height corresponds to the part that extends out from the top edge of the profile



### SYSTÈME DE FIXATION / LOCKING SYSTEM



FERMETURE RAPIDE DE SÉCURITÉ SANS BOULONS. 8 fixations par mètre linéaire.  
FAST, BOLTLESS SAFETY LOCKING 8 fastening points per linear meter



AR150G

### AVALOIR ET ACCESSOIRES / SUMP UNITS AND ACCESSORIES TABLE

CODE	L (mm)	H (mm)	LARGEUR WIDTH (mm)	Ø SORTIE / OUTLET (mm)		CORPS SUMP UNITS
				LATERAL	FRONT	
AR150G	500	590	186	160/200	110	1



Fermé/Closed



Ouvert/Open

### OBTURATEURS / END CAPS

CANIVEAU CHANNEL	CODE	TYPE	Ø (mm)
R150GH8	TR150H8C	FERMÉ / CLOSED	-
	TR150H12C	FERMÉ / CLOSED	-
R150GH12	TR15000C	FERMÉ / CLOSED	-
	TR15000A	OUVERT / OPEN	-
R150G00R	TR15010C	FERMÉ / CLOSED	110
	TR15010A	OUVERT / OPEN	160
R150G10R	TR15020C	FERMÉ / CLOSED	160
	TR15020A	OUVERT / OPEN	160
R150G20R	TR15030C	FERMÉ / CLOSED	-
	TR15030A	OUVERT / OPEN	160



### PANIER / GALVANIZED STEEL BUCKET

CODE

CR150

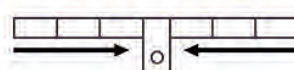


### SABOT DE RACCORDEMENTS / STEP UNITS

CODE

CER150

### TYPES DE PENTE / SLOPE DESIGNS



SANS PENTE  
WITHOUT SLOPE



PENTE EN CASCADE  
CASCADED SLOPE



## MULTIV+200

LOAD CLASS  
**UP TO D400**  
EN-1433 STANDARD

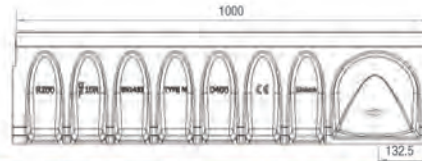
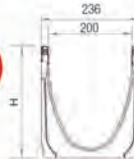
BELASTUNGSKLASSE  
**BIS ZU D400**  
NORM EN-1433

ULMA Linear Drainage Channel, type **MULTIV+® R200G**, External width 236mm, Internal width 200mm, with overall heights between 80 and 370mm; suitable for cascade-type slopes to collect rainwater; sections 1 LM in length; optimized V-shape with self-cleaning effect; especially designed for channel runs with no longitudinal slope; galvanized steel edges for lateral protection; fast, boltless fastening system with 8 fastening points per LM.

Linienentwässerungsrinne ULMA, Typ **MULTIV+®R200G**, Außenbreite 236 mm, Innenbreite 200 mm, Gesamthöhe zwischen 80 und 370mm; Stufengefälle Möglichkeit zur Aufnahme von Regenwasser in 1 m Länge; optimierte V-Form mit Selbstreinigungseffekt; speziell für ohne Sohlgefälle Rinnen zugeschnitten; Kantenschutz aus verzinktem Stahl; schnelles Stecksystem mit 8 Befestigungspunkten pro laufender Meter.



OPTIMIZED  
V-SHAPE  
OPTIMIERTE  
V-FORM



Channel Rinne	L (mm)	H (mm)	Width/Breite (mm)		Ø Outlet* / Auslass* (mm)		Hydraul. Section Hydraulikquerschnitt (cm²)	Pcs. / Pallet Stück/Palette
			Z	X	Vert.	Hor.		
R200GH8**	1000	80	236	200	160	-	79	42
R200GH12**	1000	120	236	200	160	-	159	42
R200G000R	1000	170	236	200	200	-	204	35
R200G00R	1000	220	236	200	200	-	284	28
R200G10R	1000	270	236	200	200	-	368	21
R200G20R	1000	320	236	200	200	-	458	21
R200G30R	1000	370	236	200	200	-	542	21

\*Vert. outlets on order / Senkrechten Auslass auf Anfrage

\*\*U shaped section / U-form



### GRATINGS / ROSTE

Material	Design	Load Last	Code	L (mm)	Width Breite (mm)	Height Höhe (2) (mm)	Units (x LM) Stück pro Laufmeter
DUCTILE IRON GUSSEISEN	HEELPROOF SLOTTED / STÖCKEL SCHUTZ STEGRÖST	C250	FNHX200RGCM	500	227	-	2
	SLOTTED / STEGRÖST	D400	FNX200RGDM	500	227	-	2
GALVANIZED STEEL VERZINKTES STAHLBLECH (1)	SINGLE SLOT / SCHLITZRAHMEN	D400	GRL200ROD	1000	231	105 (2)	1
	ACCESS UNIT / REVISIONSÖFFNUNG	D400	GRL200RODMA	500	228	105 (2)	2
	SINGLE SLOT / SCHLITZRAHMEN	D400	GRL200RODH150	1000	231	150 (2)	1
	ACCESS UNIT / REVISIONSÖFFNUNG	D400	GRL200RODMAH150	500	228	150 (2)	2
	HEELPROOF MESH / STÖCKEL SCHUTZ MASCHENROST	C250	GEHX200RGC	1000	227	-	1

(1) Available Range in Stainless Steel / Produktsortiment aus Edelstahl

(2) The grating height corresponds to the part that extends out from the top edge of the profile / Die Schlitzhöhe ist das Maß, um das das Teil über den oberen Kante des Profils übersteht

### LOCKING SYSTEM / BEFESTIGUNGSSYSTEM

FAST, BOLTLESS SAFETY LOCKING 8 fastening points per linear meter / SCHNELLE, SCHRAUBENLOSE SICHERHEITSBEFESTIGUNG. Schnelles Stecksystem mit 8 Befestigungspunkten pro laufender Meter

### SUMP UNITS AND ACCESSORIES TABLE EINLAUFKASTEN UND ZUBEHÖR

Code	L (mm)	H (mm)	Width/Breite (mm)	Ø Outlet / Ø Auslass (mm)		Sump Units Einlaufkasten
				Lateral/ Seiten	Front/ Vordere	
AR200G	500	550	236	160/200	110	1

#### END CAPS STIRNPLATTEN

Closed  
Geschlossen

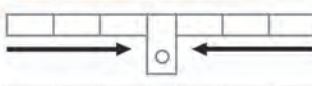
Open  
Offen

Channel Rinne	Code	Type / Typ	Ø (mm)
R200GH8	TR200H8C	CLOSED / GESCHLOSSEN	-
R200GH12	TR200H12C	CLOSED / GESCHLOSSEN	-
R200G000R	TR200000C	CLOSED / GESCHLOSSEN	-
R200G00R	TR200000A	OPEN / OFFEN	110
R200G10R	TR20010C	CLOSED / GESCHLOSSEN	-
R200G20R	TR20020C	CLOSED / GESCHLOSSEN	-
R200G30R	TR20030C	CLOSED / GESCHLOSSEN	-

STEP UNITS  
ÜBERGANGSSTÜCK  
Code  
CER200

GALVANIZED STEEL BUCKET  
VERZINKTE SCHLAMMEIMER  
Code  
CR200

#### SLOPE DESIGN / GEFÄLLE TYPEN



WITHOUT SLOPE  
OHNE GEFÄLLE

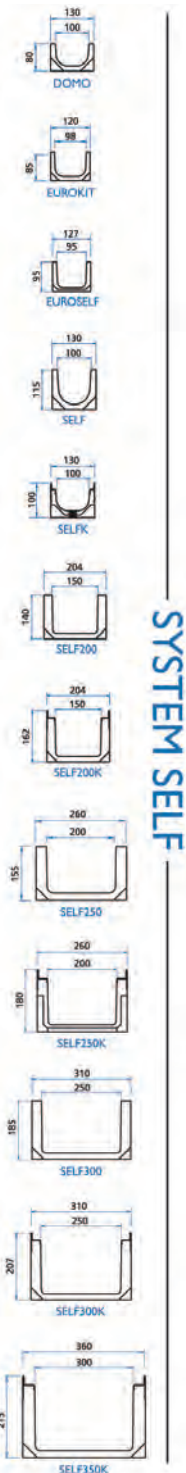


CASCADED SLOPE  
STUFENGEFÄLLE

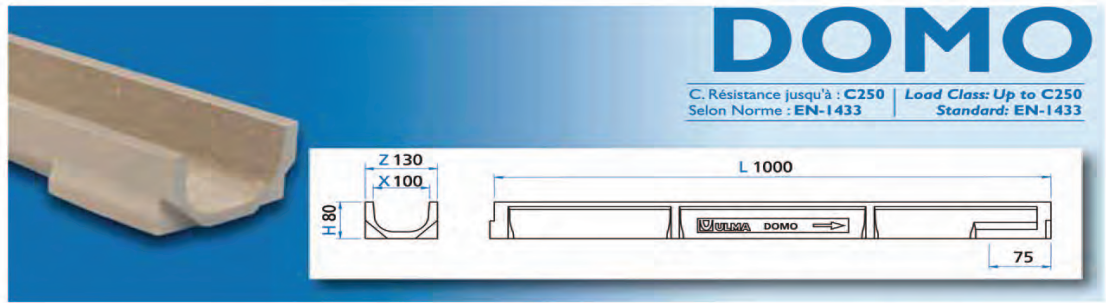


Scan for  
up-to-date  
Catalogue





## SYSTEM SELF



CODE	L (mm.)	H (mm.)	LARGEUR / WIDTH (mm.)		Ø SORTIE / OUTLET (mm.)		HYDRAUL. SECTION (cm²)	KG.	UNITES x PALETTE PCS x PALLET
DOMO	1000	80	Z	X	VERT.	HORIZ.	60	6,5	120

\* Sortie vert. et horiz. Sur commande. / Vert. and horiz. Outlets on order.

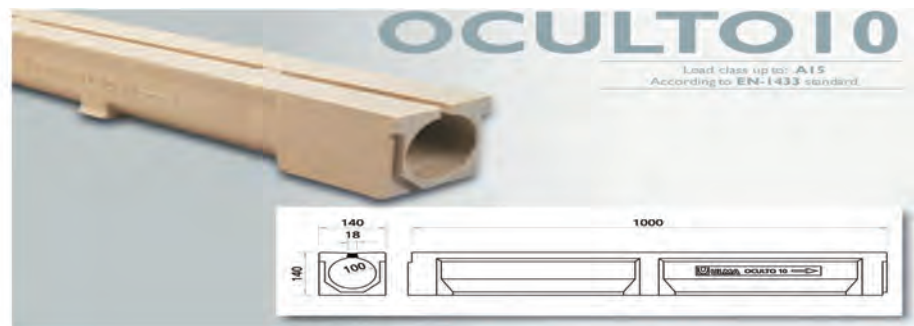
## GRILLES / GRATINGS

NERVURÉE SLOTTED	PASSERELLE SLOTTED	MATIERE MATERIAL	DESSIN DESIGN	RESIST. LOAD	CODE	L (mm.)	LARGEUR WIDTH (mm.)	ÉPAISSEUR THICKNESS (mm.)	UNITES x ML UNITS x ML	KG.
		FORGE DUCTILE IRON	NERV. / SLOT.	C 250	FNX100UCM(1)	500	130	6	2	2,3
			PASS. / SLOT.	A 15	GN100UCA	1000	130	3	1	1,8
			PASS. / SLOT.	A 15	GN100UCA(2)	1000	127	3	1	1,5
			PASS. / SLOT.	A 15	GNH100UCA(3)	1000	130	3	1	1,8
			PERF.	A 15	GPI00UCA	1000	130	3	1	1,9
		ACIER GALVANISÉ GALVANISED STEEL	CAIL. / MESH.	A 15	GEX100UCA	1000	130	2	1	2,8
			CAIL. / MESH.	B 125	GEI00UCB	1000	130	3	1	3,5
			FENTE / S. SLOT	C 250	GRI00UOC(2)	1000	130	70	1	4,7
			FENTE / DOUBLE / SLOT	C 250	GDR100UOC(2)	1000	130	3	1	5,3
		INOXYDABLE STAINLESS STEEL	PASS. / SLOT.	A 15	INI00UCA	1000	130	3	1	1,9
			PERF.	A 15	IP100UCA	1000	130	3	1	1,9
			CAIL. / MESH.	B 125	IEI00UCB	1000	130	3	1	3,2

(1) Disponible avec système antidébordement (Voir la photographie à la page 8) / Also Available with non-flooding system (See photograph on page. 8).

(2) Posée, sans vis. / Without screws.

(3) Grille antitaton / Heelproof.



CHANNEL CODE	LENGTH (mm.)	HEIGHT	WIDTH		OUTLET DIAM.		HYDRAULIC SECTION (cm²)	WEIGHT (kg.)	PCS PER PALLET
OCULTO 10	1000	140	OVERALL	INTERNAL	VERT.	HORIZ.	78,5	17,1	56

## TECHNICAL DESCRIPTION

ULMA linear drainage channel, type OCULTO 10, external width 140mm, inside diameter 100mm and overall height 140mm, to collect rain water, in 1 meter long units

## LOCKING SYSTEM

The Channel does not have grating. Channel of one piece only.

## SUMP UNITS AND ACCESSORIES TABLE

CODE	LENGTH (mm.)	HEIGHT (mm.)	WIDTH (mm.)	SIDE OUTLETS (mm.)	FRONTAL OUTLETS (mm.)	N° OF PIECES PER SUMP UNIT	GALVANISED STEEL BUCKET CODE
AOCULTO100S + AU100	500	675	140	110/140	110	2	CU100
AOCULTO100S + AEURO100	500	438	140	90/110	90	2	CEURO100

• AOCULTO100S Sump Unit and maintenance element carries LOCK OF GRATING.

MAINTENANCE ELEMENT			
CODE	LENGTH (mm.)	WIDTH (mm.)	HEIGHT (mm.)
OCULTO100RM	500	140	140

MAINTENANCE ELEMENT GRATING

MATERIAL	DESIGN	LOAD CLASS	CODE	LENGTH (mm.)	WIDTH (mm.)	THICKNESS (mm.)	PCS PER PALLET	WEIGHT (kg.)
POLYMER CONCRETE	SINGLE SLOT	A 15	HPR100KCAM	500	110	30	2	3

HPR100KCAM

GALVANISED STEEL BUCKET

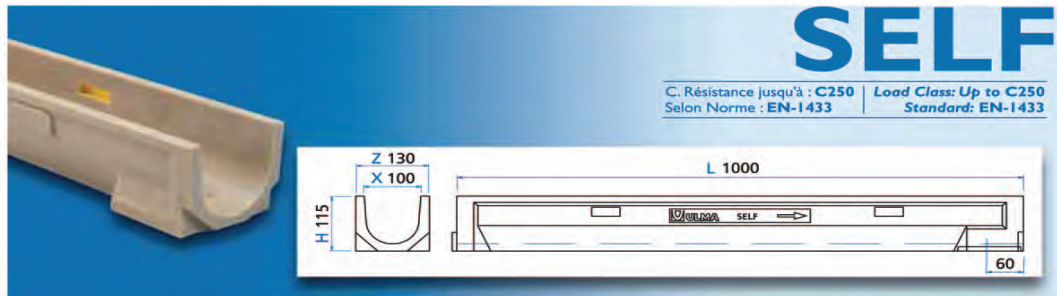
CU100  
CEURO100

The information contained in the brochure was up to date at the time of going to print. Photographs, drawings, sizes and reference numbers are given as an indication only and can be changed without notice. Killeshal Precast Concrete Ltd reserves the right to modify product specification without notice.





## SYSTEM SELF

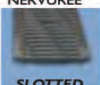




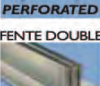

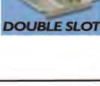


C. Résistance jusqu'à : C250 Load Class: Up to C250  
 Selon Norme : EN-1433 Standard: EN-1433

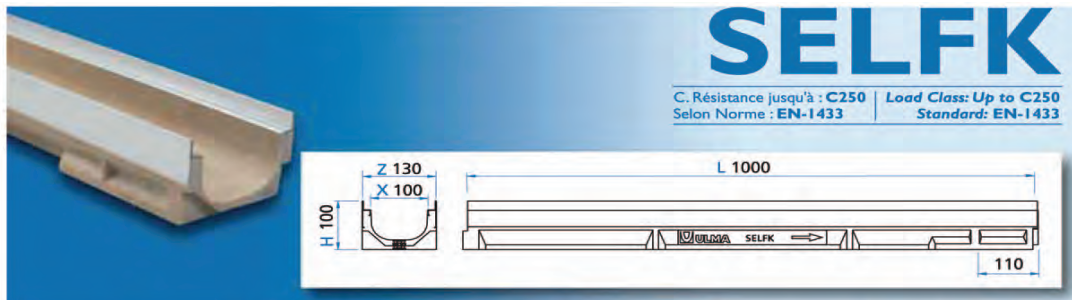
CODE	L (mm.)	H (mm.)	LARGEUR / WIDTH (mm.)		Ø SORTIE / OUTLET (mm.)		HYDRAUL. SECTION (cm²)	KG.	UNITES x PALETTE PCS x PALLET
SELF	1000	115	Z	X	VERT.	HORIZ.	85	9,2	105

\* Sortie vert. et horiz. Sur commande. / Vert. and horiz. Outlets on order.

### GRILLES / GRATINGS

NERVURÉE	PASSERELLE	MATIERE MATERIAL	DESSIN DESIGN	RESIST. LOAD	CODE	L (mm.)	LARGEUR WIDTH (mm.)	ÉPAISSEUR THICKNESS (mm.)	UNITES x ML UNITS x ML	KG.
		FONTA DUCTIL IRON	NERV. / SLOT.	C 250	FNX100UCCM(1)	500	130	7	2	2,3
		ACIER GALVANISÉ GALVANISED STEEL	PASS. / SLOT.	A 15	GN100UCA	1000	130	3	1	1,8
			PASS. / SLOT.	A 15	GN100UCA(2)	1000	127	3	1	1,5
			PASS. / SLOT.	A 15	GNH100UCA(3)	1000	130	3	1	1,8
			PERF.	A 15	GP100UCA	1000	130	3	1	1,9
		INOXYDABLE STAINLESS STEEL	CAIL. / MESH.	A 15	GEX100UCA	1000	130	2	1	2,8
			CAIL. / MESH.	B 125	GE100UCB	1000	130	3	1	3,5
			FENTE / S. SLOT	C 250	GR100UOC (2)	1000	130	70	1	4,7
			FENTE / DOUBLE / SLOT	C 250	GDR100UOC (2)	1000	130	3	1	5,3
		INOXYDABLE STAINLESS STEEL	PASS. / SLOT.	A 15	IN100UCA	1000	130	3	1	1,9
			PERF.	A 15	IP100UCA	1000	130	3	1	1,9
			CAIL. / MESH.	B 125	IE100UCB	1000	130	3	1	3,2

(1) Disponible avec système antidébordement (Voir la photographie à la page 8) / Also Available with non-flooding system (See photograph on page. 8).  
 (2) Posée, sans vis. / Without screws.  
 (3) Grille antitaton. / Heelproof.












C. Résistance jusqu'à : C250 Load Class: Up to C250  
 Selon Norme : EN-1433 Standard: EN-1433

CODE	L (mm.)	H (mm.)	LARGEUR / WIDTH (mm.)		Ø SORTIE / OUTLET (mm.)		HYDRAUL. SECTION (cm²)	KG.	UNITES x PALETTE PCS x PALLET
SELF250	1000	100	Z	X	VERT.	HORIZ.	53	11,7	105

\* Sortie vert. et horiz. Sur commande. / Vert. and horiz. Outlets on order.

### GRILLES / GRATINGS

NERVURÉE	NERVURÉE	MATIERE MATERIAL	DESSIN DESIGN	RESIST. LOAD	CODE	L (mm.)	LARGEUR WIDTH (mm.)	UNITES x ML UNITS x ML	KG.
		FONTA DUCTIL IRON	NERV. / SLOT.	C 250	FNX100KCCM(1)	500	123	2	3,4
		ACIER GALVANISÉ GALVANISED STEEL	PERF.	A 15	GP100KCA	1000	123	1	1,7
			PASS. / SLOT.	A 15	GN100KCA	1000	123	1	1,7
			CAIL. / MESH	A 15	GEX100KCA	1000	123	1	2,4
			CAIL. / MESH	B 125	GE100KCB	1000	123	1	2,9
		INOXYDABLE STAINLESS STEEL	PASS. / SLOT.	A 15	IN100KCA	1000	123	1	1,7
			PERF.	A 15	IP100KCA	1000	123	1	1,7
			CAIL. / MESH	B 125	IE100KCB	1000	123	1	3,0
		POLYPROPYLENE POLYPROPYLENE	NERV. / SLOT.	A 15	PNH100KCAM (2)	500	123	2	0,6
			NERV. / SLOT.	A 15	PNH100KCAM GRIS (2)	500	123	2	0,6
									

(1) Disponible avec système antidébordement (Voir la photographie à la page 8) / Also Available with non-flooding system (See photograph on page. 8).  
 (2) Grille antitaton. / Heelproof.





CODE	L (mm.)	H (mm.)	LARGEUR / WIDTH (mm.)		Ø SORTIE / OUTLET (mm.)		HYDRAUL SECTION (cm <sup>2</sup> )	KG.	UNITES x PALETTE PCS x PALLET
			Z	X	VERT.	HORIZ.			
<b>M100</b>	<b>1000</b>	<b>60</b>	<b>130</b>	<b>100</b>	<b>90</b>	<b>-</b>	<b>40</b>	<b>8,2</b>	<b>120</b>

\* Sortie vert. et horiz. Sur commande. / Vert. and horiz. Outlets on order.

## GRILLES / GRATINGS

NERVURÉE SLOTTED	PASSERELLE SLOTTED	MATIERE MATERIAL	DESSIN DESIGN	RESIST. LOAD	CODE	L (mm.)	LARGEUR WIDTH (mm.)	ÉPAISSEUR THICKNESS (mm.)	UNITES x PL UNITS x ML	KG.
		FONTES DUCTIL IRON	NERV. / SLOT.	C 250	FNX100UCCM(1)	500	130	7	2	2,3
		ACIER GALVANISÉ GALVANISED STEEL	PASS. / SLOT.	A 15	GN100UCA	1000	130	3	1	1,8
			PASS. / SLOT.	A 15	GN100UCA(2)	1000	127	3	1	1,5
			PASS. / SLOT.	A 15	GNH100UCA(3)	1000	130	3	1	1,8
			PERF.	A 15	GP100UCA	1000	130	3	1	1,9
			CAIL. / MESH	A 15	GEX100UCA	1000	130	2	1	2,8
		INOXYDABLE STAINLESS STEEL	CAIL. / MESH	B 125	GE100UCB	1000	130	3	1	3,5
			PASS. / SLOT.	A 15	IN100UCA	1000	130	3	1	1,9
			PERF.	A 15	IP100UCA	1000	130	3	1	1,9
			CAIL. / MESH	B 125	IE100UCB	1000	130	3	1	3,2

(1) Disponible avec système antidébordement (Voir la photographie à la page 8) / Also Available with non-flooding system (See photograph on page. 8).

(2) Posée, sans vis. / Without screws.

(3) Grille antitaton. / Heelproof.



CODE	L (mm.)	H (mm.)	LARGEUR / WIDTH (mm.)		Ø SORTIE / OUTLET (mm.)		HYDRAUL SECTION (cm <sup>2</sup> )	KG.	UNITES x PALETTE PCS x PALLET
			Z	X	VERT.	HORIZ.			
<b>M100K</b>	<b>1000</b>	<b>80</b>	<b>130</b>	<b>100</b>	<b>90</b>	<b>-</b>	<b>40</b>	<b>11,2</b>	<b>120</b>

\* Sortie vert. et horiz. Sur commande. / Vert. and horiz. Outlets on order.

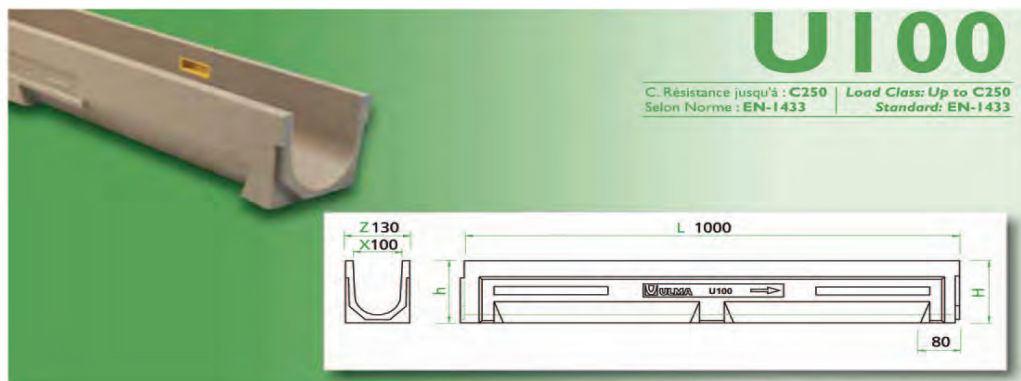
## GRILLES / GRATINGS

NERVURÉE SLOTTED	NERVURÉE SLOTTED	MATIERE MATERIAL	DESSIN DESIGN	RESIST. LOAD	CODE	L (mm.)	LARGEUR WIDTH (mm.)	UNITES x PL UNITS x ML	KG.
		FONTES DUCTIL IRON	NERV. / SLOT.	C 250	FNX100KCCM(1)	500	123	2	3,4
				C 250	FNH100KCCM(2)	500	123	2	3,7
		ACIER GALVANISÉ GALVANISED STEEL	PASS. / SLOT.	A 15	GN100KCA	1000	123	1	1,7
			PERF.	A 15	GP100KCA	1000	123	1	1,7
			CAIL. / MESH	A 15	GEX100KCA	1000	123	1	2,4
			CAIL. / MESH	B 125	GE100KCB	1000	123	1	2,9
			PASS. / SLOT.	A 15	IN100KCA	1000	123	1	1,7
		INOXYDABLE STAINLESS STEEL	PERF.	A 15	IP100KCA	1000	123	1	1,7
			CAIL. / MESH	B 125	IE100KCB	1000	123	1	3
		POLYPROPYLENE POLYPROPYLENE	NERV. / SLOT.	A 15	PNH100KCAM(2)	500	123	2	0,6
			NERV. / SLOT.	A 15	PNH100KCAM GRIS (2)	500	123	2	0,6

(1) Disponible avec système antidébordement (Voir la photographie à la page 8) / Also Available with non-flooding system (See photograph on page. 8).

(2) Grille antitaton. / Heelproof.





CODE	L (mm.)	HAUTEUR / HEIGHT (mm.)		LARGEUR / WIDTH (mm.)		Ø SORTIE / OUTLET (mm.)		HYDRAUL SECTION (cm <sup>2</sup> )	KG.	UNITES x PALETTE PCS x PALLET
		h	H	Z	X	VERT.	HORIZ.			
U100.00R	1000	130	130	130	100	110	—	97	12,1	90
U100.01	1000	130	135	130	100	—	—	97	—	—
U100.02	1000	135	140	130	100	—	—	101	—	—
U100.03	1000	140	145	130	100	—	—	106	—	—
U100.04	1000	145	150	130	100	—	—	111	—	—
U100.05	1000	150	155	130	100	—	—	116	—	—
U100.05R	1000	155	155	130	100	110	—	120	14,3	78
U100.06	1000	155	160	130	100	—	—	120	—	—
U100.07	1000	160	165	130	100	—	—	125	—	—
U100.08	1000	165	170	130	100	—	—	130	—	—
U100.09	1000	170	175	130	100	—	—	135	—	—
U100.10	1000	175	180	130	100	—	—	140	—	—
U100.10R	1000	180	180	130	100	110	110	145	15,9	65
U100.11	1000	180	185	130	100	—	—	145	—	—
U100.12	1000	185	190	130	100	—	—	150	—	—
U100.13	1000	190	195	130	100	—	—	155	—	—
U100.14	1000	195	200	130	100	—	—	159	—	—
U100.15	1000	200	205	130	100	—	—	164	—	—
U100.15R	1000	205	205	130	100	110	110	169	17,51	65
U100.16	1000	205	210	130	100	—	—	169	—	—
U100.17	1000	210	215	130	100	—	—	174	—	—
U100.18	1000	215	220	130	100	—	—	178	—	—
U100.19	1000	220	225	130	100	—	—	183	—	—
U100.20	1000	225	230	130	100	—	—	188	—	—
U100.20R	1000	230	230	130	100	110	110	193	19,3	52
U100.25R	1000	255	255	130	100	110	110	240	21,5	—
U100.30R	1000	280	280	130	100	110	110	288	23,5	—

\* Sortie vert. et horiz. Sur commande. / Vert. and horiz. Outlets on order.














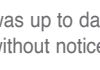




## DESCRIPTIF TECHNIQUE

Caniveau en Béton polymère de type ULMA, modèle U100, avec ou sans pente intégrée, largeur extérieure 130mm, largeur intérieure 100mm, hauteur extérieure disponible de 130mm à 230mm, pente intégrée de 0,5% pour récupérer les eaux de pluie, en modules de 1 ML de longueur, clavettes de sécurité CS100 et vis correspondantes, adapté pour les grilles suivantes:

## TECHNICAL DESCRIPTION

Ulma Linear Drainage Channel type U100: External width 130mm; Internal Width 100mm; Available with overall heights between 130mm and 230mm, 0,5% pre-slopped channels to collect rain water in 1 metre long units. Locking system consists of locking bar CS100 and screws. Suitable for the following gratings:

### GRILLES / GRATINGS

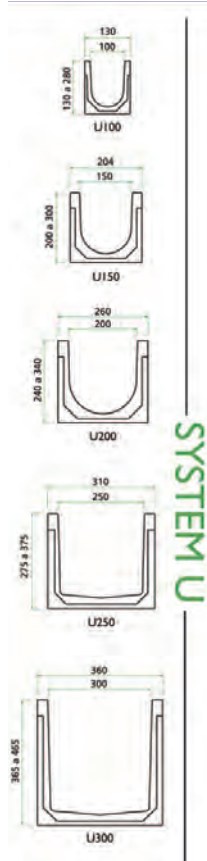
NIERVURÉE	PASSERELLE	MATIERE MATERIAL	DESSIN DESIGN	RESIST. LOAD	CODE	L (mm.)	LARGEUR WIDTH (mm.)	ÉPAISSEUR THICKNESS (mm.)	UNITES x ML UNITS x ML	KG.
		FONTE DUCTIL IRON	NERV. / SLOT.	C 250	FNX100UCCM(1)	500	130	7	2	2,3
		ACIER GALVANISÉ GALVANISED STEEL	PASS. / SLOT.	A 15	GN100UCA	1000	130	3	1	1,8
			PASS. / SLOT.	A 15	GN100UCA(2)	1000	127	3	1	1,5
			PASS. / SLOT.	A 15	GNH100UCA(3)	1000	130	3	1	1,8
			PERF.	A 15	GP100UCA	1000	130	3	1	1,9
			CAIL. / MESH.	A 15	GEX100UCA(2)	1000	130	2	1	2,8
		INOXYDABLE STAINLESS STEEL	CAIL. / MESH.	B 125	GE100UCB	1000	130	3	1	3,5
			FEN. / S. SLOT	C 250	GR100UOC(2)	1000	130	70	1	5,4
			FENTE / DOUBLE / SLOT	C 250	GDR100UOC(2)	1000	130	3	1	3,7
		INOXYDABLE STAINLESS STEEL	PASS. / SLOT.	A 15	IN100UCA	1000	130	3	1	1,9
			PERF.	A 15	IP100UCA	1000	130	3	1	1,9
			CAIL. / MESH.	B 125	IE100UCB	1000	130	3	1	3,2

(1) Disponible avec système antidébordement (Voir la photographie à la page 8) / Also Available with non-flooding system (See photograph on page 8).

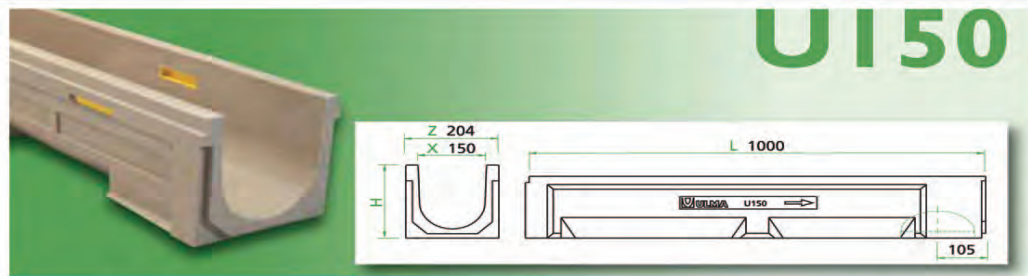
(2) Posée, sans vis. / Without screws.

(3) Grille antitaton / Heelproof.





SYSTEM U



CODE	L (mm.)	H (mm.)	LARGEUR / WIDTH (mm.)		Ø SORTIE / OUTLET (mm.)		HYDRAUL. SECTION (cm²)	KG.	UNITES x PALETTE PCS x PALLET
			Z	X	VERT.	HORIZ.			
U150.00R	1000	200	204	150	160	110	230	23,0	45
U150.10R	1000	250	204	150	160	160	305	29,5	36
U150.20R	1000	300	204	150	160	160	380	34,5	27

\* Sortie vert. et horiz. Sur commande. / Vert. and horiz. Outlets on order.

## DESCRIPTIF TECHNIQUE

Caniveau en Béton polymère de type ULMA, modèle U150, largeur extérieure 204mm, largeur intérieure 150mm, hauteur extérieure disponible entre 200mm et 300mm, possibilité de pente en cascade, pour récupérer les eaux de pluie, en modules de 1 ML de longueur, clavettes de sécurité CS150 et vis correspondantes, adapté pour les grilles suivantes:

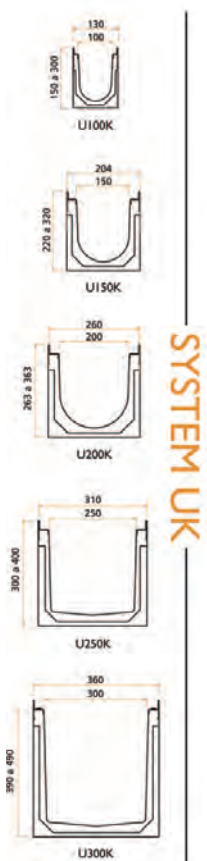
## TECHNICAL DESCRIPTION

Ulma Linear Drainage Channel type U100: External width 130mm; Internal Width 100mm; Available with overall heights between 130mm and 230mm, 0,5% pre-sloped channels to collect rain water in 1 metre long units. Locking system consists of locking bar CS100 and screws. Suitable for the following gratings:

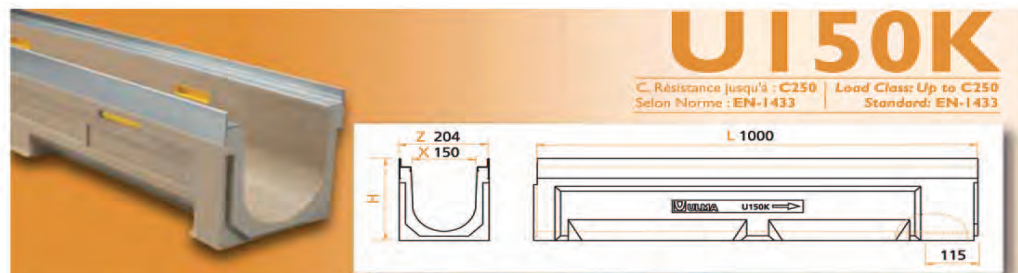
## GRILLES / GRATINGS

NERVURÉE	PASSERELLE	MATIERE MATERIAL	DESSIN DESIGN	RESIST. LOAD	CODE	L (mm.)	LARGEUR WIDTH (mm.)	EPAISSEUR THICKNESS (mm.)	UNITES x ML UNITS x ML	KG.
SLOTTED	SLOTTED	FONTES DUCTIL IRON	NERV. / SLOT.	C 250	FNX150UCCM(1)	500	200	7	2	3,5
PERFORÉE	CAILLEBOTIS	ACIER GALVANISÉ GALVANISED STEEL	PASS. / SLOT. PERF. CAIL. / MESH.	A 15 A 15 B 125	GP150UCA GEX150UCA GE150UCB	1000	200	3	1	2,7 3,7 4,7
PERFORÉE	MESH	INOXYDABLE STAINLESS STEEL	CAIL. / MESH. FENTE / DOUBLE / SLOT FENTE / SLOT	C 250 C 250	GDR150UOC GR150UOC	1000	200	3	1	4,7 4,7
FENTE	FENTE DOUBLE		PERF. CAIL. / MESH.	A 15 B 125	IP150UCA IE150UCB	1000	200	3	1	3,0 6,0

(1) Disponible avec système antidébordement (Voir la photographie à la page 8) / Also Available with non-flooding system (See photograph on page. 8).



SYSTEM UK



CODE	L (mm.)	H (mm.)	LARGEUR / WIDTH (mm.)		Ø SORTIE / OUTLET (mm.)		HYDRAUL. SECTION (cm²)	KG.	UNITES x PALETTE PCS x PALLET
			Z	X	VERT.	HORIZ.			
UK150K00R	1000	220	204	150	160	—	230	26	45
UK150K10R	1000	270	204	150	160	—	305	32,5	36
UK150K20R	1000	320	204	150	160	160	380	37,5	27

\* Sortie vert. et horiz. Sur commande. / Vert. and horiz. Outlets on order.

## DESCRIPTIF TECHNIQUE

Caniveau en Béton polymère de type ULMA, modèle UK150K, largeur extérieure 204mm, largeur intérieure 150mm, possibilité de pente en cascade, hauteurs extérieures disponibles de 220mm à 320mm, pour récupérer les eaux de pluie, en modules de 1 ML de longueur, feuillures en acier galvanisé\* pour protection latérale, clavettes de sécurité CS150 et vis correspondantes, adapté pour les grilles suivantes :

\* Disponible également en acier inoxydable. / Also available with Stainless Steel edge protection.

## TECHNICAL DESCRIPTION

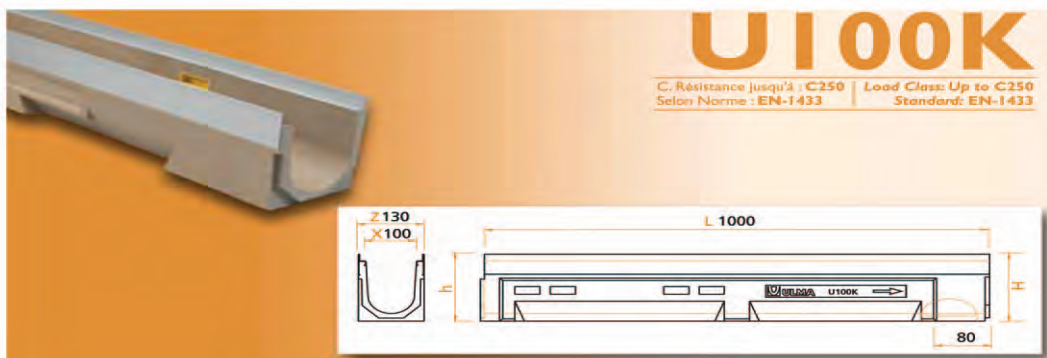
Ulma Linear Drainage Channel type UK150K: External width 204mm; Internal Width 150mm; Suitable for cascade type slope and available with overall heights between 220mm and 320mm to collect rain water in 1 metre long units; Integrated Galvanised Steel\* edges for lateral protection. Locking System consists of CS150 locking bar and screws. Suitable for the following gratings:

## GRILLES / GRATINGS

NERVURÉE	PERFORÉE	MATIERE MATERIAL	DESSIN DESIGN	RESIST. LOAD	CODE	L (mm.)	LARGEUR WIDTH (mm.)	UNITES x ML UNITS x ML	KG.
SLOTTED	PERFORATED	FONTES DUCTIL IRON	NERV. / SLOT.	C 250	FNX150KCCM(1)	500	195	2	5,2
CAILLEBOTIS		ACIER GALVANISÉ GALVANISED STEEL	PERF. CAIL. / MESH.	A 15 B 125	GP150KCA GE150KCB	1000	195	1	3,5 5,1
MESH		INOXYDABLE STAINLESS STEEL	PERF. CAIL. / MESH.	A 15 B 125	IP150KCA IE150KCB	1000	195	1	2,8 5,2

(1) Disponible avec système antidébordement (Voir la photographie à la page 8) / Also Available with non-flooding system (See photograph on page. 8).





CODE	L (mm.)	HAUTEUR / HEIGHT (mm.)		LARGEUR / WIDTH (mm.)		SORTIE / OUTLET (mm.)		HYDRAUL. SECTION (cm²)	KG.	UNITES x PALLETTE PCS x PALLET
		h	H	Z	X	VERT.	HORIZ.			
U100K00R	1000	150	150	130	100	110	—	97	15,1	90
U100K01	1000	150	155	130	100	—	—	97	—	—
U100K02	1000	155	160	130	100	—	—	101	—	—
U100K03	1000	160	165	130	100	—	—	106	—	—
U100K04	1000	165	170	130	100	—	—	111	—	—
U100K05	1000	170	175	130	100	—	—	116	—	—
U100K05R	1000	175	175	130	100	110	—	120	17,3	78
U100K06	1000	175	180	130	100	—	—	120	—	—
U100K07	1000	180	185	130	100	—	—	125	—	—
U100K08	1000	185	190	130	100	—	—	130	—	—
U100K09	1000	190	195	130	100	—	—	135	—	—
U100K10	1000	195	200	130	100	—	—	140	—	—
U100K10R	1000	200	200	130	100	110	110	145	18,9	65
U100K11	1000	200	205	130	100	—	—	145	—	—
U100K12	1000	205	210	130	100	—	—	150	—	—
U100K13	1000	210	215	130	100	—	—	155	—	—
U100K14	1000	215	220	130	100	—	—	159	—	—
U100K15	1000	220	225	130	100	—	—	164	—	—
U100K15R	1000	225	225	130	100	110	110	169	20,5	65
U100K16	1000	225	230	130	100	—	—	169	—	—
U100K17	1000	230	235	130	100	—	—	174	—	—
U100K18	1000	235	240	130	100	—	—	178	—	—
U100K19	1000	240	245	130	100	—	—	183	—	—
U100K20	1000	245	250	130	100	—	—	188	—	—
U100K20R	1000	250	250	130	100	110	110	193	22,3	52
U100K25R	1000	275	275	130	100	110	110	240	24,5	—
U100K30R	1000	300	300	130	100	110	110	288	26,5	—

\* Sortie vert. et horiz. Sur commande. / Vert. and horiz. Outlets on order.

## DESCRIPTIF TECHNIQUE









Caniveau en Béton Polymère de type ULMA, modèle U100K, de dimension extérieure de 130mm, dimension intérieure de 100mm, avec la possibilité d'une pente incorporée de 0,5% ou d'une pente en cascade, avec une hauteur extérieure disponible de 150 à 250mm pour récupérer les eaux de pluie, en modules de IML de long, feuillures en acier galvanisé\* pour protection latérale, grille de sécurité et fixation correspondante, adapté suivant le modèle de grille :

\* Disponible également en acier inoxydable. / Also available with Stainless Steel edge protection.

## TECHNICAL DESCRIPTION

Ulma Linear Drainage Channel type U100K: External width 130mm; Internal Width 100mm; Available with overall heights between 150mm and 250mm; 0.5% pre-sloped channels to collect rain water in 1 metre long units; Integrated Galvanised Steel\* edges for lateral protection. Locking System consists of CS100 locking bar and screws. Suitable for the following gratings:

## GRILLES / GRATINGS

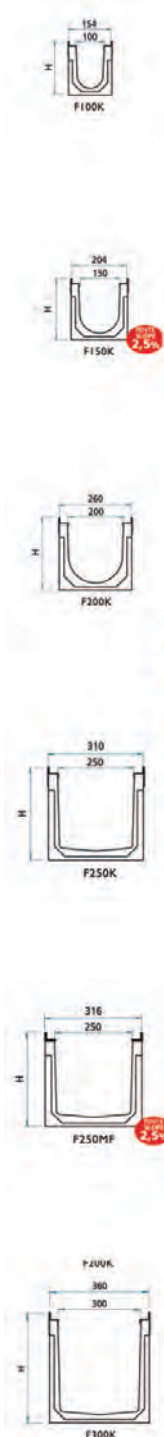
NERVURÉE	NERVURÉE	MATIERE MATERIAL	DESIGN DESIGN	RESIST. LOAD	CODE	L (mm.)	LARGEUR WIDTH (mm.)	UNITES x ML. UNITS x ML.	KG.
		FONTE DUCTIL IRON	NERV. / SLOT.	C 250	FNX100KCCM (1)	500	123	2	3,4
				C 250	FNH100KCCM (2)	500	123	2	3,7
		ACIER GALVANISÉ GALVANISED STEEL	PASS. / SLOT.	A 15	GN100KCA	1000	123	1	1,7
			PERF.	A 15	GP100KCA	1000	123	1	1,7
			CAIL. / MESH	A 15	GEX100KOA	1000	123	1	2,4
			CAIL. / MESH	B 125	GE100KCB	1000	123	1	2,9
		INOXYDABLE STAINLESS STEEL	PASS. / SLOT.	A 15	INI100KCA	1000	123	1	1,7
			PERF.	A 15	IP100KCA	1000	123	1	1,7
			CAIL. / MESH	B 125	IE100KCB	1000	123	1	3,0
			CAIL. / MESH	B 125	IE100KCB	1000	123	1	3,0
		POLYPROPYLENE POLYPROPYLENE	NERV. / SLOT.	A 15	PNH100KCAM (2)	500	123	2	0,6
			NERV. / SLOT.	A 15	PNH100KCAM GRIS (2)	500	123	2	0,6
			PERF.	A 15	PP100KOAM	500	123	2	0,5
			PERF.	A 15	PP100KCAM	500	123	2	0,5

(1) Disponible avec système antidéboîtement (Voir la photographie à la page 8) / Also Available with non-flooding system (See photograph on page. 8).  
 (2) Grille anticalon. / Heelproof.

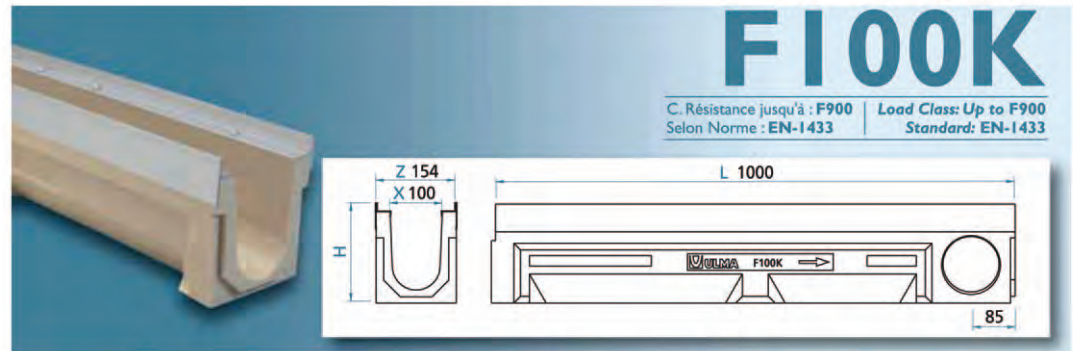


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Catalogue





## SYSTEM F



C. Résistance jusqu'à : F900 Load Class: Up to F900  
Selon Norme : EN-1433 Standard: EN-1433



CODE	L (mm.)	H (mm.)	LARGEUR / WIDTH (mm.)		Ø SORTIE / OUTLET (mm.)		HYDRAUL. SECTION (cm <sup>2</sup> )	KG.	UNITES x PALETTE PCS x PALLET
			Z	X	VERT.	HORIZ.			
F100K000R	1000	130	154	100	110	-	68	23,0	52
F100K00R	1000	190	154	100	110	110	126	27,5	52
F100K10R	1000	250	154	100	110	110	184	30,0	39
F100K20R	1000	310	154	100	110	110	242	36,1	39

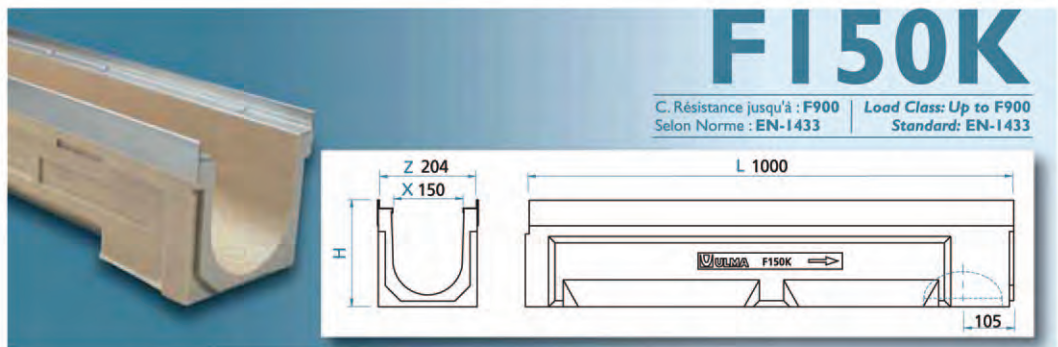
### GRILLES / GRATINGS

CAILLEBOTIS	FERMÉE	MATIERE MATERIAL	DESSIN DESIGN	RESIST. LOAD	CODE	L (mm.)	LARGEUR WIDTH (mm.)	UNITES x ML UNITS x ML	KG.
MESH	CLOSED	FER. / CLO.	CAIL / MESH	D400	FE100FTDM	500	145	2	3,4
NERVURÉE		FER. / CLO.	FER. / CLO.	F900	FC100FTFM	500	145	2	7,4
SLOTTED		FER. / CLO.	NERV. / SLOT.	F900	FN100FTFM (1)	500	145	2	6,9

(1) Disponible avec système antidébordement (Voir la photographie à la page 8) / Also Available with non-flooding system (See photograph on page 8).

### SYSTÈME DE FIXATION / LOCKING SYSTEM

		8 POINTS. 8 boulons par mètre linéaire avec capuchons de protection. 8 BOLT LOCKING SYSTEM. 8 screws with protection cap, per liner metre.
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C. Résistance jusqu'à : F900 Load Class: Up to F900  
Selon Norme : EN-1433 Standard: EN-1433



CODE	L (mm.)	H (mm.)	LARGEUR / WIDTH (mm.)		Ø SORTIE / OUTLET (mm.)		HYDRAUL. SECTION (cm <sup>2</sup> )	KG.	UNITES x PALETTE PCS x PALLET
			Z	X	VERT.	HORIZ.			
F150K00R	1000	220	204	150	160	110	230	30,0	45
F150K10R	1000	270	204	150	160	110	305	36,5	36
F150K20R	1000	320	204	150	160	160	345	41,5	27

### GRILLES / GRATINGS

NERVURÉE	FERMÉE	MATIERE MATERIAL	DESSIN DESIGN	RESIST. LOAD	CODE	L (mm.)	LARGEUR WIDTH (mm.)	UNITES x ML UNITS x ML	KG.
SLOTTED	CLOSED	NERV. / SLOT.	NERV. / SLOT.	D 400	FNX150FTDM (1)	500	195	2	6,4
		NERV. / SLOT.	FER. / CLO.	F 900	FN150FTFM (1)	500	195	2	12,1
		FER. / CLO.		F 900	FC150FTFM	500	195	2	12,9

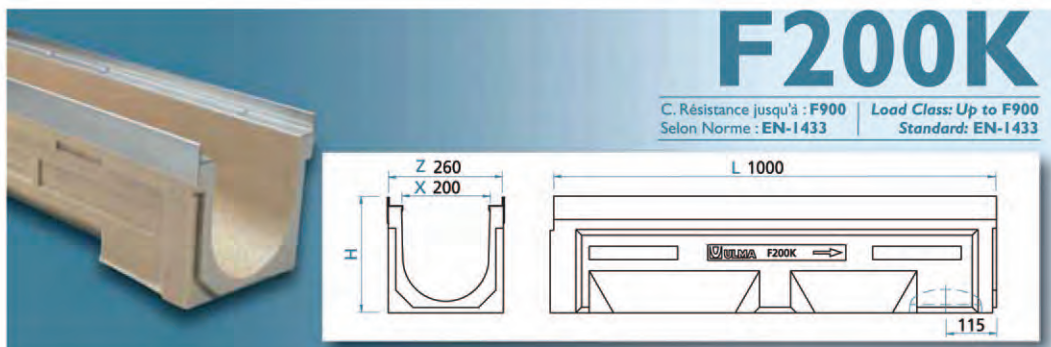
(1) Disponible avec système antidébordement (Voir la photographie à la page 8) / Also Available with non-flooding system (See photograph on page 8).

### SYSTÈME DE FIXATION / LOCKING SYSTEM

		8 POINTS. 8 boulons par mètre linéaire avec capuchons de protection. 8 BOLT LOCKING SYSTEM. 8 screws with protection cap, per liner metre.
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The information contained in the brochure was up to date at the time of going to print. Photographs, drawings, sizes and reference numbers are given as an indication only and can be changed without notice. Killeshal Precast Concrete Ltd reserves the right to modify product specification without notice.





CODE	L (mm.)	H (mm.)	LARGEUR / WIDTH (mm.)		Ø SORTIE / OUTLET (mm.)		HYDRAUL. SECTION (cm²)	KG.	UNITES x PALETTE PCS x PALLET
			Z	X	VERT.	HORIZ.			
F200K00R	1000	263	260	200	200	160	374	42,0	28
F200K10R	1000	313	260	200	200	160	473	49,0	28
F200K20R	1000	363	260	200	200	160	571	54,5	21

## GRILLES / GRATINGS

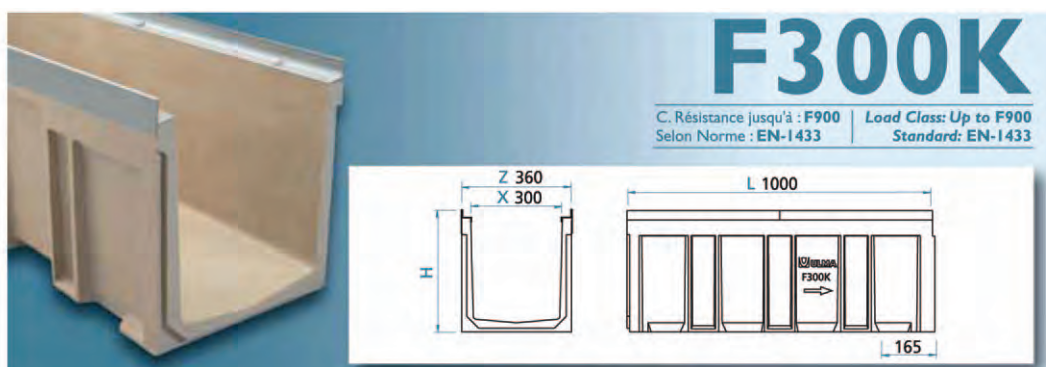
NERVURÉE SLOTTED	FERMÉE CLOSED	MATIERE MATERIAL	DESSIN DESIGN	RESIST. LOAD	CODE	L (mm.)	LARGEUR WIDTH (mm.)	UNITES x ML UNITS x ML	KG.
		FONTE DUCTIL IRON	NERV. / SLOT.	D 400	FNX200FTDM (1)	500	251	2	9,7
			NERV. / SLOT.	F 900	FN200FTFM (1)	500	251	2	13,0
			FER. / CLO.	F 900	FC200FTFM	500	251	2	14,5

(1) Disponible avec système antidébordement (Voir la photographie à la page 8) / Also Available with non-flooding system (See photograph on page. 8).

## SYSTÈME DE FIXATION / LOCKING SYSTEM



8 POINTS. 8 boulons par mètre linéaire avec capuchons de protection.  
**8 BOLT LOCKING SYSTEM. 8 screws with protection cap, per liner metre.**



CODE	L (mm.)	H (mm.)	LARGEUR / WIDTH (mm.)		Ø SORTIE / OUTLET (mm.)		HYDRAUL. SECTION (cm²)	KG.	UNITES x PALETTE PCS x PALLET
			Z	X	VERT.	HORIZ.			
F300K00R	1000	390	360	300	250	-	975	60,0	15
F300K10R	1000	440	360	300	250	-	1110	70,4	10
F300K20R	1000	490	360	300	250	-	1255	75,7	10
F300K60R	1000	600	360	300	-	-	1525	91,0	10

## GRILLES / GRATINGS

NERVURÉE SLOTTED	FERMÉE CLOSED	MATIERE MATERIAL	DESSIN DESIGN	RESIST. LOAD	CODE	L (mm.)	LARGEUR WIDTH (mm.)	UNITES x ML UNITS x ML	KG.
		FONTE DUCTIL IRON	NERV. / SLOT.	D 400	FN300FTDM (1)	500	351	2	14,4
			NERV. / SLOT.	F 900	FN300FTFM (1)	500	351	2	25,2
			FER. / CLO.	F 900	FC300FTFM	500	351	2	27,5

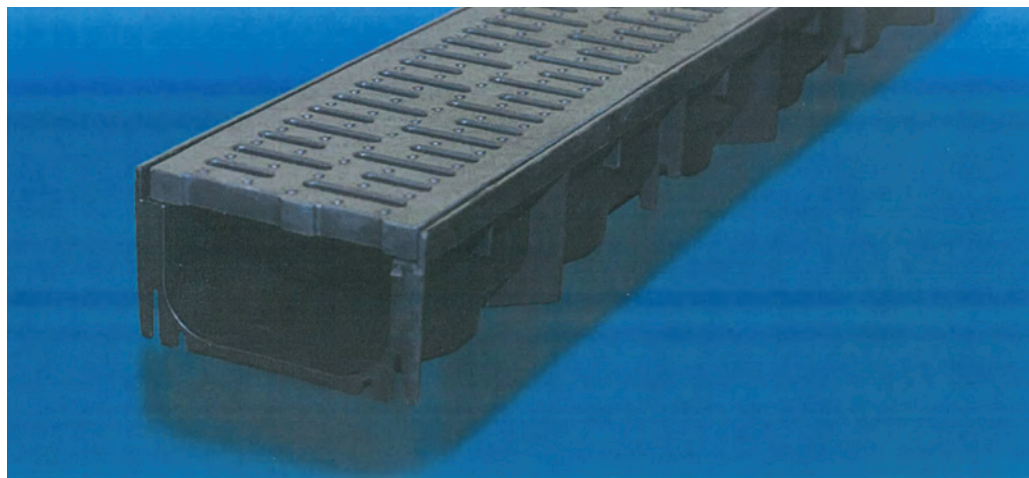
(1) Disponible avec système antidébordement (Voir la photographie à la page 8) / Also Available with non-flooding system (See photograph on page. 8).

## SYSTÈME DE FIXATION / LOCKING SYSTEM



8 POINTS. 8 boulons par mètre linéaire avec capuchons de protection.  
**8 BOLT LOCKING SYSTEM. 8 screws with protection cap, per liner metre.**

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KILLESHAL PRECAST CONCRETE ARE PLEASED TO OFFER A VERY COMPETITIVE PRICED POLYPROPYLENE ALTERNATIVE IN LINE DRAINAGE CHANNELS AND GRATINGS

### Polypropylene Channel

Length:	1000m
Overall Width:	130mm
Overall Height:	110mm
Internal Width:	100mm
Internal Height:	90mm
Weight:	1200g

### Polypropylene Grating

#### Load Class A15

Length:	1000m
Overall Width:	130mm
Overall Height:	110mm
Internal Width:	100mm
Internal Height:	90mm
Weight:	1200g

### Galvanised Grating

#### Load Class A15

Length:	1000m
Overall Width:	130mm
Overall Height:	110mm
Internal Width:	100mm
Internal Height:	90mm
Weight:	1200g

Please read the following instructions thoroughly before proceeding with the installation of your system



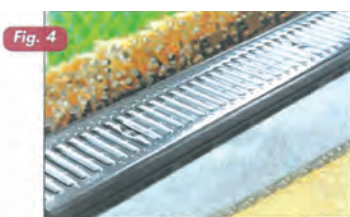
**Fig. 1**  
Prepare a trench of sufficient Depth To ensure reliable drainage into the channel, the finished ground surface level, including paving should be 2 - 3 mm higher than the upper edge of the grating. Use a stretched line to assist accurate workmanship. Fill in with an even bed of good quality concrete 80 - 100mm depth.



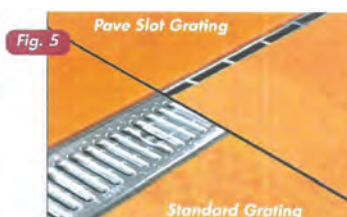
**Fig. 2**  
Before installation, tap out the pre-formed outlet on the channel unit as required.



**Fig. 3**  
Assemble, interlock and align channels on the concrete bed and either connect to the underground drainage or soak away. Ensure gratings are placed in channels during installation. Protect the grating's finish at this stage by placing them upside down in the channels during installation.



**Fig. 4**  
When the channels are in position fill the trench either side of the channel with good quality concrete 80 - 100mm width. Ensure correct depth of concrete so that finished ground surface level, including paving, is 2 - 3mm higher than the top of the grating.



**Fig. 5**  
Once the concrete has set, remove the gratings and place back into the channels the right way up, firmly tapping to ensure grating lugs properly locate into slots on channel. Locking bars can be supplied as an optional extra with metal gratings that locate into slots in the channel wall.

#### ACCESSORIES:



Leaf/Dirt Trap



Corner Unit



End Cap Outlet



## SCS INEGRA 70mm | 1.9kg Porous Paving

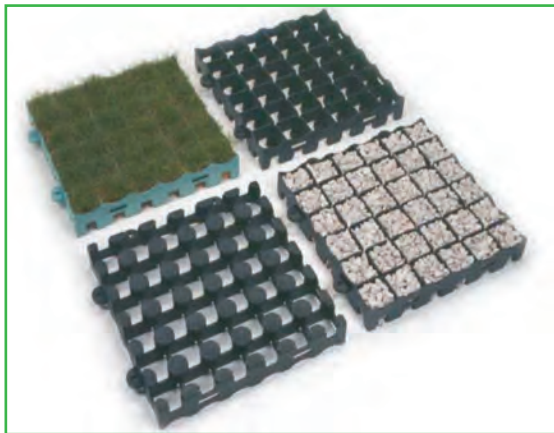
### The Concept

SCS INTEGRA is a key product within a sustainable urban drainage system (SUDS), whereby the porous paving effects the efficient attenuation, infiltration and treatment of stormwater runoff at or near its source - in accordance with current Best Management Practices (BMP's). It is also an ideal product for grass and gravel reinforcement.

### The Product

Made in the EU from recycled high/low density polyethylene SCS INTEGRA is a modular unit which works in conjunction with its neighbouring units to create an exceptionally durable, permanently porous, high load bearing structure.

Infilled with either grass or natural aggregate in completed form, SCS INTEGRA remains in harmony with current environmental considerations whilst complying with increased governing legislation.



### Applications

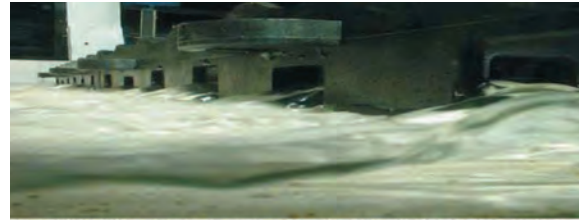
SCS INTEGRA is a heavy duty grass and gravel reinforcement system and is therefore ideal for:

- Emergency Access Roads
- Car Parks
- Pedestrian areas
- Grass verges
- Vehicular hard-standings
- Cycle ways
- Helicopter Landing Pads
- Sport & Leisure Facilities
- Holiday Complexes
- Sheltered accommodation
- Domestic driveways
- Caravan sites

### Product Data

NOMINAL SIZE	500mm x 500mm x 70mm
COVERAGE RATE	4 blocks / m <sup>2</sup>
UNIT WEIGHT	1.9kg
INFILTRATION RATE	> 5,000 mm/hour
RUN OFF COEFFICIENT RANGE	0.05 - 0.25
LATERAL DRAINAGE VOID RATIO	20.8%
INFILL SURFACE AREA	> 90%
COMPRESSIVE STRENGTH (FILLED)	2,240 kN/m <sup>2</sup>

The above data indicates typical values - further details of structural and hydraulic properties of the system are available on request.



The SCS INTEGRA system has the unique benefit of full scale independent physical hydraulic modelling, providing the necessary data for developing validated porous paving designs on a scientific basis.

### SUDS - The Principle

SUDS are physical structures built to receive water runoff, being located as close as possible to where the rainwater falls, providing the option of infiltration and attenuation stormwater source control solutions. They also provide treatment for surface water using the natural processes of sedimentation, filtration, absorption and bio-degradation.

Recent research shows that typically up to 80% of sediment; 60% of phosphorous; and 80% of nitrogen can be removed from rainwater through porous paving, together with substantial levels of heavy metals and hydrocarbons. This natural treatment provides the ideal opportunity for rainwater conservation and re-use for a variety of non-potable applications e.g. toilet/urinal flushing, irrigation, laundry, process water, vehicle washing, refrigeration, coolant use, etc.

Such source control principles and techniques are now inherent within best practice and are increasingly becoming the norm within development projects.

### Design Details - SUDS

Within the concept of porous paving there exists two, more commonly specified, system constructions:

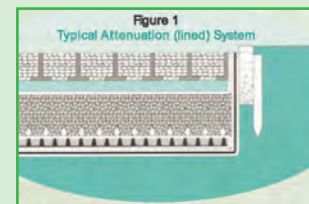
#### The Attenuation System

- utilised when direct infiltration is not appropriate and when water storage is required.

Figure 1 shows SCS INTEGRA, containing either grass or natural aggregate, installed on a layer of clean stone overlying an appropriate SCS GT geotextile separation/filtration layer.

Beneath this is a voided sub-base which is encased within an appropriate SCS GM geomembrane.

Collected runoff is discharged via an appropriate SCS storage device (SCS Aquavoid®) positioned within or below the sub-base and sealed where it exits the geomembrane storage reservoir.



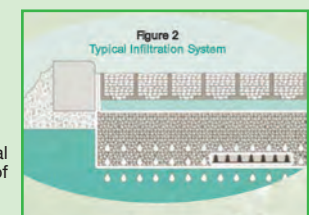
#### The Infiltration System

- utilised whenever possible, subject to appropriate soil conditions and environmental considerations.

Figure 2 shows SCS INTEGRA, containing either grass or natural aggregate, installed on a layer of clean stone overlying an appropriate SCS GT geotextile separation/filtration layer.

Beneath this is a sub-base which is encapsulated within an appropriate SCS GT geotextile separation/filtration layer.

Collected runoff is allowed to permeate naturally, through the geotextile separation/filtration layer, into the sub-grade obviating the need for a positive discharge facility.



## PAVING SURFACES - INSTALLATION

### Subgrade

Excavate to formation level as indicated on the drawing, providing a minimal (1: 30 - 1: 100) fall to the drainage system. Compact subgrade, using either a vibrating roller or plate, making good soft spots with suitable material.

### Sub-base for Infiltration Surfaces

Use granular material (crushed gravel, rock or concrete) as specified - for SUDS schemes this must be free draining. Install the designed depth of sub-base as specified, in 200mm layers compacting each layer (vibratory plate, type DVP 75/22"). Overlay the sub-base with the specified SCS GT 1900 geotextile (essential to prevent migration), overlapping joints by 200mm.

### Bedding Layer

Lay, screed and compact to a 30mm depth of appropriate bedding layer material (sharp sand or 5mm grit). Selection of the bedding layer material is dependant upon the application. For grass reinforcement mix the bedding layer 4:1 with a good quality top soil to ensure good root growth.

### Wearing Course

SCS INTEGRA & AGRABLOCK should be laid on a 45 degree face such that each modular unit abuts its neighbouring units, with the triangular locating lugs fitting within the corresponding slots. As laying progresses each unit should be pinned (4 per unit) together with the pins supplied and the specified root zone/grass seed infill material or natural aggregate should be used to infill each cell such that a continuous, permanently porous, high load bearing structure is created.

### Infill Materials (sand and soil mix/aggregate)

The selected infill material should be specified on a project specific basis based on the application and design, but the following could act as a guide:

**For Sand Bed:** A good quality compacted silica sharp sand should be used, of approximately 30mm thickness after compaction; alternatively a 5mm grit is also suitable if required.

**For Gravel Fill:** Aggregate size should be 5 - 15mm angular gravel and if adjacent to schools should ideally be 10mm single sized crushed rock. The use of an angular gravel rather than a river washed gravel will aid compaction and prevent migration from the units.

**For Grass Fill:** A good quality topsoil should be used to infill the units to the top and allowed to settle (5 - 7 mm); grass seeding followed by a top dressing of a good quality fertiliser should ensure adequate grass growth. Seeded areas must be watered regularly for a period of 6 weeks following installation and traffic kept off the area until grass growth is established.

**Maintenance:** For gravel areas; an occasional sweeping of any overfill back into the units. If gravel appears to be sinking check for the installation of the geotextile.

For grass areas; once grass is established the area can be trafficked and a normal mowing regime resumed. If infill appears to be sinking top up with loam mix and check for presence of geotextile.



*Overflow & Temporary Parking*



*Driveways and Gravel Areas*



*Park & Rides & General Parking*



## TURFSTONE

Turfstone is a ground reinforcement grass paving system ideally suited to projects where a hard surface capable of supporting vehicles is required within a grass area or other space where a naturalistic appearance is preferred. It functions as a SUDS permeable pavement, controlling surface water at source by directing it to the sub-layers.

Turfstone provides a low cost paving option with minimum visual impact. Its honeycombed cavities are designed to facilitate the growth of grass within a supporting concrete matrix, allowing grass to be cut in the conventional manner.

Each element weighs approximately 25kg and so we recommend machine-aided installation to comply with manual handling regulations. Special lifting aids that can be attached to excavators, tele-handlers and cranes are readily available.

### Product Specifications

Product type	Concrete paving block
Manufactured to	BS EN 1338:2003
Efflorescence	Minimum 12 hour vapour curing to significantly reduce the possibility of efflorescence
Strength	> 3.5MPa
Slip/Skid resistance	Extremely Low (>75 USRV)
Installed to	BS 7533-3:2005
NSI Plus	Q25 800
Applications	Residential and Commercial when used in conjunction with the correct sub-base design in accordance with the latest British standard.
Energy used	100% renewable energy
Water used	100% water used from rainwater harvesting system
Carbon Footprint <small>(Approved by the Carbon Trust)</small>	24kgCO <sub>2</sub> e/m <sup>2</sup>
Recyclable	100% of this product can be recycled
Manufacturing location	Produced in the UK with locally sourced materials
Breem rating	<b>A</b> (In accordance with the Green Guide to Specification, 2nd edition 2009) <b>A+</b> (can be achieved when used with recycled sub-base, in accordance with the Green Guide to Specification, 2nd edition 2009) <a href="http://www.bre.co.uk">www.bre.co.uk</a>
Complementary kerbs	Country Kerb, Half Battered



### Typical uses include:

- Off street residential parking
- Vehicular access for occasional usage, ie. fire lanes, utility access
- Overspill commercial or retail parking
- Occasional parking for cricket clubs, schools, churches, caravan parks, cemeteries, etc
- Nature reserves, sensitive heritage sites and country parks
- Environmental erosion control areas, such as riverbanks and waterways
- Road verges
- Field entrances and farm tracks
- SUDS schemes

For installation guidelines please go online or contact the Tobermore Sales Office.

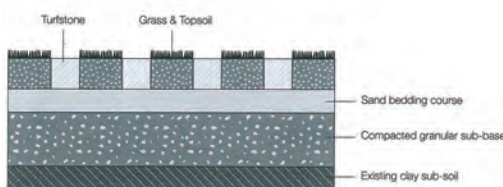
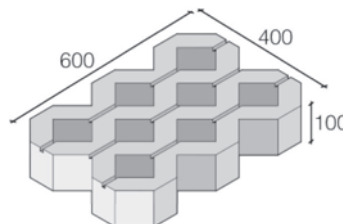
product	size (mm)	colours available	in stock	m <sup>2</sup> per bale	m <sup>2</sup> per slice	no. per m <sup>2</sup>	no. per bale	weight (kg) per bale
TURFSTONE	600 x 400 x 100	Natural	YES	7.68	3.84	4.17	32	1070

## PRECAST GRASS BLOCKS Ref: M113 | 33kg

600x400x89x89mm

Killeshal's Grass Block Provides

- hard standing
- erosion control
- ground armouring
- access paths and parking in environmentally sensitive areas.



### Application

Turfstone can be used in caravan parks, cemeteries, carparks etc. in addition to typical environmental erosion control areas such as riverbanks and waterways.

Tobermore Turfstone is laid as a normal paving unit but with the honeycombed areas filled with quality topsoil and suitable grass seed.

### Installation

- 1 Lay 100-150mm of compacted granular sub-base.
- 2 Screed uncompacted sand over granular sub-base to depth of 30-50mm to form bedding course.
- 3 Lay Turfstone on sand bedding course.
- 4 Fill Turfstone voids with quality topsoil to approximately 30mm from surface. Sow suitable grass seed when soil is still loose and cover with thin layer of soil. Top soil should be approximately 12mm below the top surface of the slab. This level ensures that emerging shoots of grass can fully develop.

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## Agrablock®

Ground Reinforcement System

**40mm Depth**

**Sustainable Urban Drainage System (SUDS)**

**Compression strength greater than 360tonnes/m<sup>2</sup> 3587kn/m**

**Independently compression tested Repro Polypropylene**

**Manufactured to ISO 9001/2008**

**Complying with increased governing legislations**

**Major cost savings purchase direct from manufacturer**

### The Product

Agrablock® is a key product within a Sustainable Urban Drainage System (SUDS), whereby the porous paving effects the efficient attenuation, infiltration and treatment of storm water run off at or near its source. It is also an ideal product for grass and gravel reinforcement.

Manufactured to ISO 9001/2008 standards from independent tested Repro Polypropylene, Agrablock® is a modular unit which works in conjunction with its neighbouring units to create an exceptionally durable, permanently porous, high load bearing structure.

Infilled with either grass or natural aggregate in completed form, Agrablock® remains in harmony with current environmental considerations whilst complying with increased governing legislations.

### Specification

- Sustainable Urban Drainage System (SUDS)
- Ideal product for grass and gravel reinforcement
- Compression strength greater than 360tonnes/m<sup>2</sup> 3587kn/m
- Manufactured to ISO 9001/2008
- Independently compression tested Repro Polypropylene
- Complying with increased governing legislations
- Major Costs Savings - Purchase direct from manufacturer

**34% STRONGER**

Agrablock® 40mm is **34%** stronger than similar 70mm products.

**43% LESS INFILL**

Agrablock® 40mm uses **43%** less infill than similar 70mm products.

### Uses

- Car Parks / Park & Ride
- Vehicle Hard-standings
- Driveways
- Access Roads
- Cycleways
- Footpaths & Country Walkways
- Landscaping / Grass Verges
- Golf Buggy Paths



Scan for  
up-to-date  
Catalogue

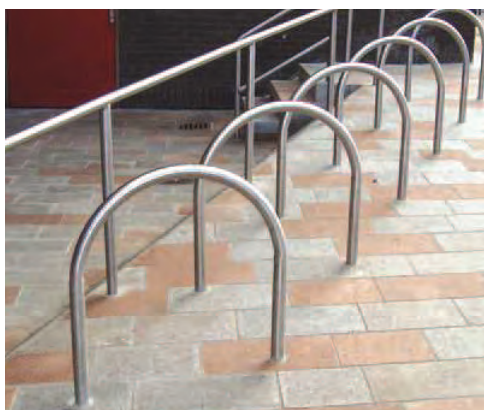
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## STAINLESS STEEL AND GALVANISED BICYCLE STANDS



Ref: 294



Ref: 292

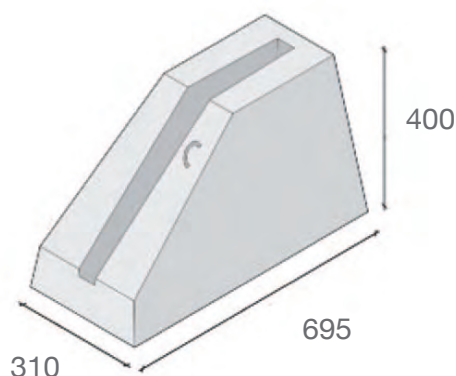


### CONCRETE / EXPOSED AGGREGATE BICYCLE STAND

Ref: M/107 | 135kg

301 x 695 x 400mm

- Fairfaced Concrete
- Exposed Aggregate



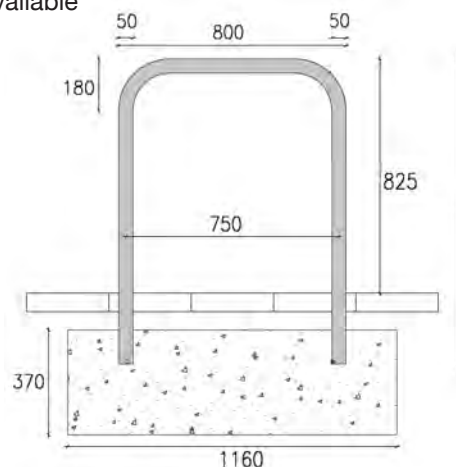
### STEEL BICYCLE STAND

Ref: M/118

Stainless Steel or Galvanised available

Cast In or Bolt Down available

Other sizes available



## STAINLESS STEEL BARRIERS

- PARKING BARRIERS
- AS 505/AS 510
- TUB 1000
- TUB 2000



- FLEXIBLE BOLLARDS
- Flexy B 600/F 600
- Flexy P 600/P 750
- Flexy PV 600

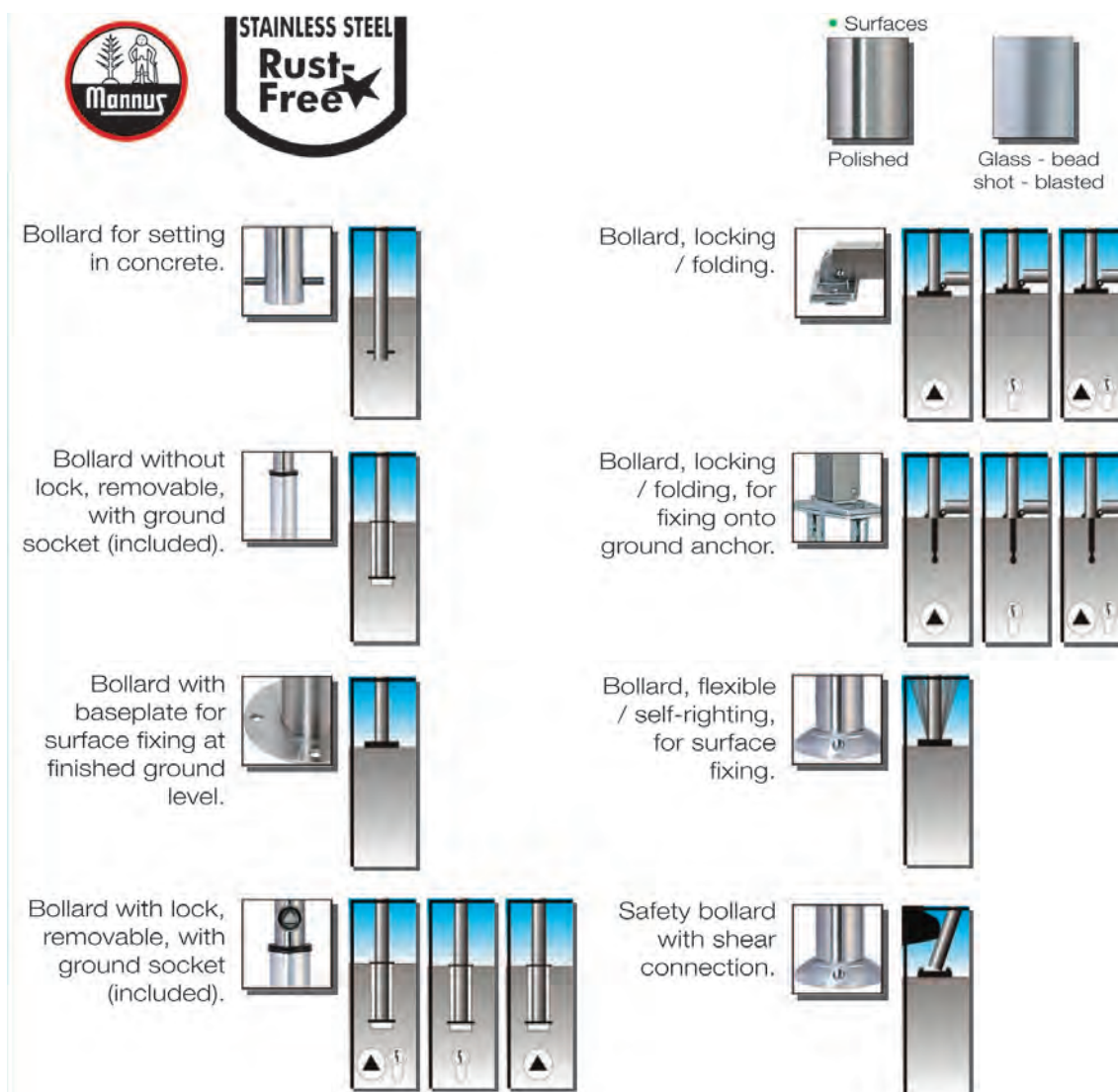


- PARK PROTECTS
- AS 525/As 527
- Solar/Park Protect
- Sperrmaster



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## GROUND FIXING AND LOCKING SYSTEMS



## BENITO BOLLARD - Dahlia H314



- Galvanised steel with epoxy primer coating
- Stainless steel decorative top
- Other sizes available

Ref	ØA	H
H314	90	1010
H314-2	90	1200
H314-4	90	1400



### Optional



H314MB



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• 61 MM DIAMETER  
ASE 30/1 - 39/4



102mm Diameter  
ASE 34/1 - 66/9



• 76 MM DIAMETER  
ASE 32/1 - 49/9



102mm Diameter  
76mm Diameter  
ASE 99/1 - 99/9



• 76 MM DIAMETER  
ASE 36/1 - 54/9



70x70mm Diameter  
ASE 52/1 - 52/7



• 76 MM DIAMETER  
ASE 35/1 - 56/9



205/306mm Diameters  
ASE 44/1 - 45/4



MANY MORE DESIGNS AVAILABLE INCLUDING BESPOKE OPTIONS

## CORTEN STEEL BOLLARDS



Corten  
Triangular



Corten  
Square



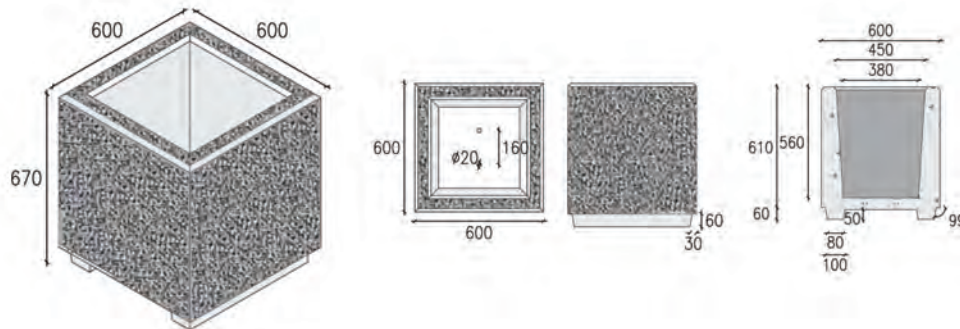
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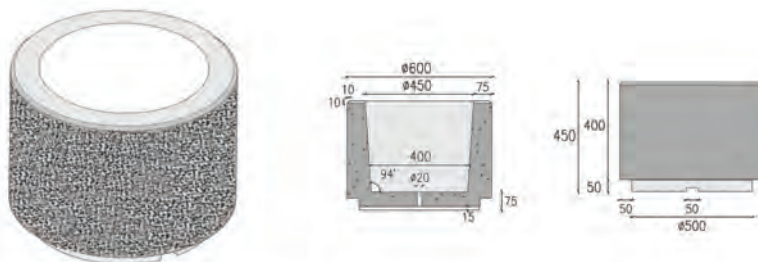


## PLAIN & EXPOSED AGGREGATE PLANTERS

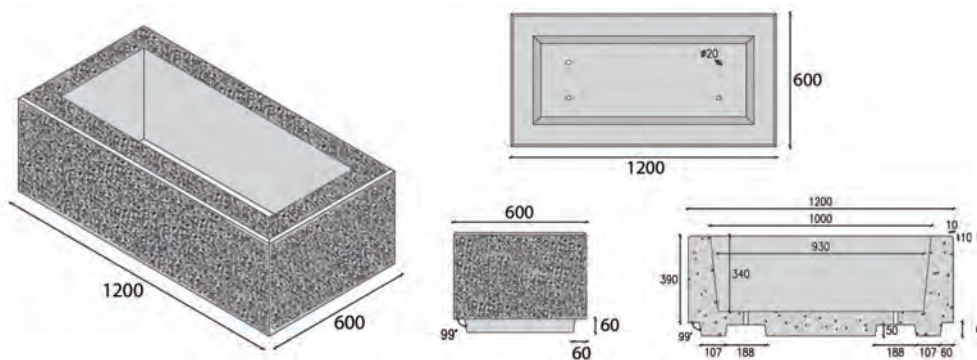
Ref: **PLANTER 14** | 310kg Square 600 x 600 x 670mm



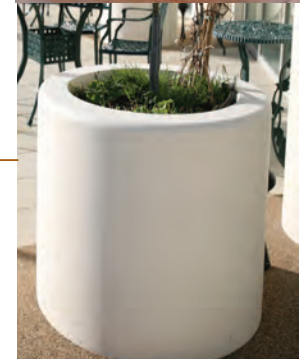
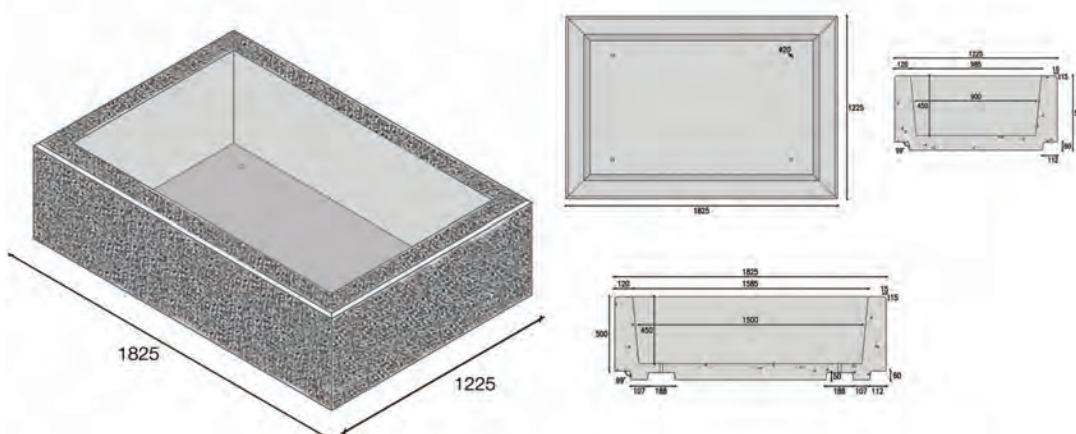
Ref: **PLANTER 20** | 167kg Round 710 x 495mm



Ref: **PLANTER 31** | 437kg 670 x 825 x 1200mm



Ref: **PLANTER 35** | 1290kg 500 x 1825 x 1225mm





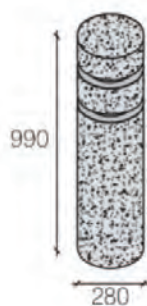
## EXPOSED AGGREGATE BOLLARDS



**Ref: Bollard 1 [118kg]**  
250x1200mm

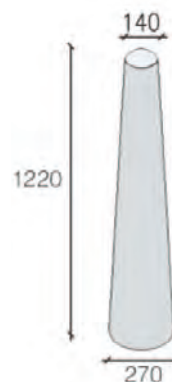


**Ref: Bollard 2 [145kg]**  
280x990mm

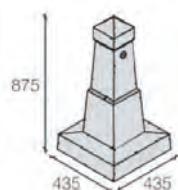
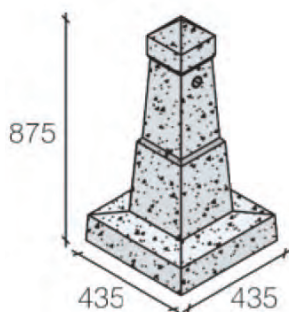


## PLAIN BOLLARDS

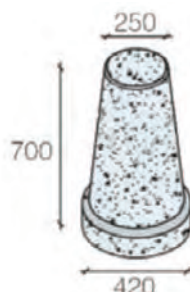
**Ref: Bollard 3 [100kg]**  
140x270x1220mm



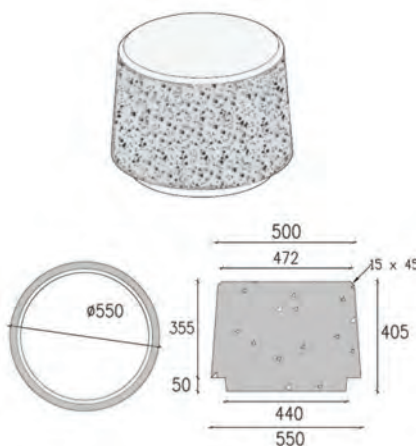
**Ref: Bollard 7 [115kg]**  
435x435x875mm



**Ref: Bollard 10 [126kg]**  
250x420x700mm



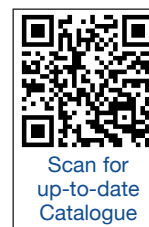
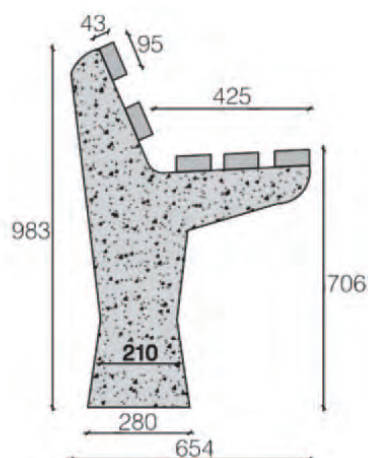
**Ref: Bollard 17 [203kg]**  
550x405mm



## EXPOSED AGGREGATE & PLAIN BOLLARDS



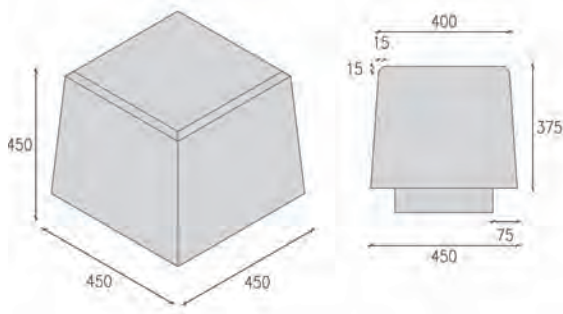
**Ref: SEAT 205 [60kg]**  
280x425x983mm



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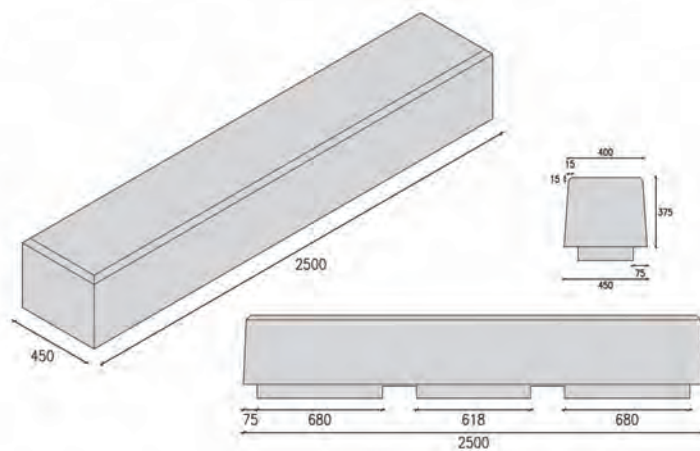
## Ref: SEAT 215 [200kg]

450x450x450mm



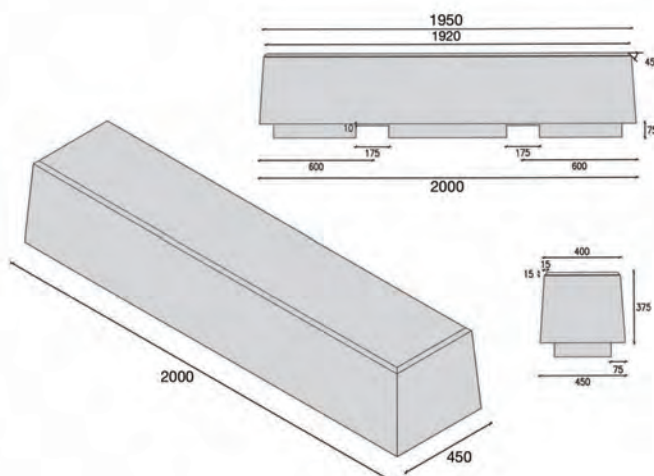
## Ref: SEAT 216 [1215kg]

450x375x2500mm



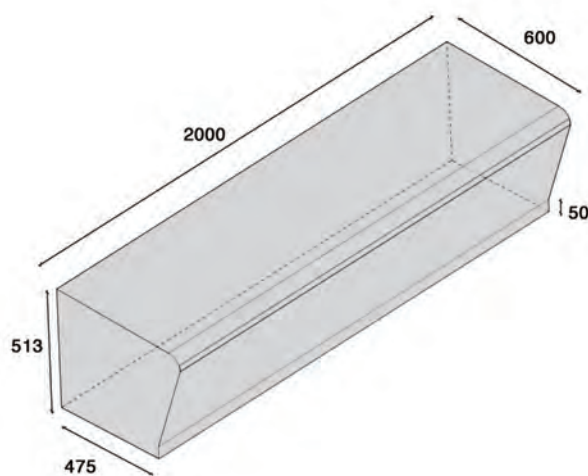
## Ref: SEAT 221 [837kg]

450x450x2000mm



## Ref: SEAT 222 [1477kg]

475x513x2000mm



## Ref: Star Bench

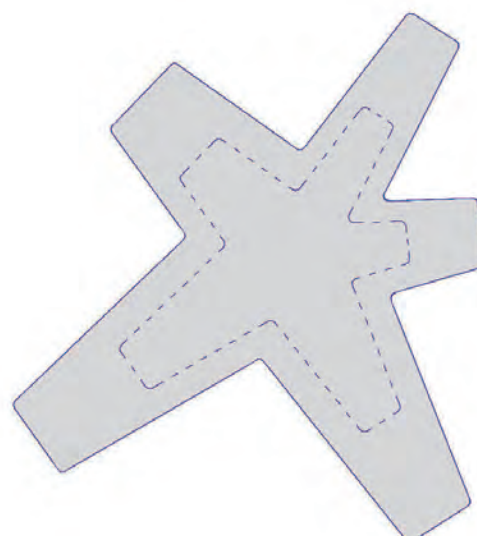
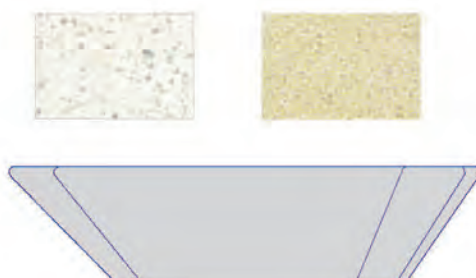
Our Star Bench creates a very striking feature and is a stylish addition to any public concourse, parkland or streetscape.

It is available in reconstituted stone only.

2 Sizes:

2452 x 2697 x 420(h)

1699 x 1903 x 420(h)



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## Brosna

Ref: C/113

2000mm length x 700mm height



## Thames

Ref: C/103 long seat/bench

1800mm length x 800mm height



## Cladagh

Ref: C/107

1980mm length x 690mm height



## Severn

Ref: C/104 R

2000mm length x 706mm height



## Benito NeoBarcino

Ref: UM-304 N

- 700mm length x 800mm height
- 1800mm length x 800mm height
- 3000mm length x 800mm height



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**Benito Kube Luz Plus**

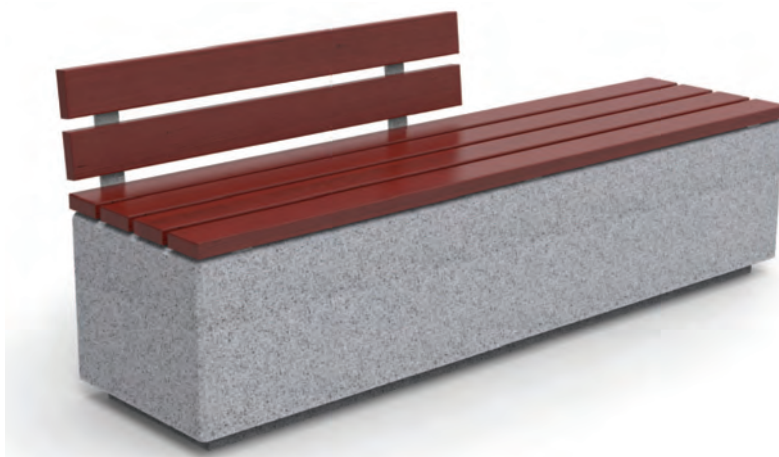
Ref: UM-372 LPL

• 2000 x 500 x 490mm

**Benito Kube Plus**

Ref: UM-372 LP [750kg]

• 2000 x 500 x 490mm



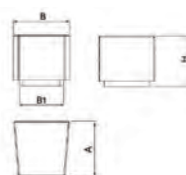
**Benito Kube Kurve**

Ref: UM-372 SK [270kg]



Bench made of pre-cast textured granite grey concrete. Designed to be installed as a stand-alone product or in groups. Recommended anchoring: free standing.

Ref	A	B	B1	H
UM372SK	500	490	418	450



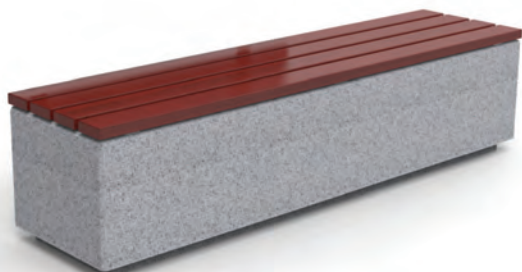
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## Benito Kube Bench with timber slats

Ref: UM-372 LM [742kg]

• 2000 x 500 x 490mm



## Benito Kube Bench

Ref: UM-372

• 2000 x 500 x 450mm



## Benito Kube P Chair

Ref: UM-372 SLP [310kg]

• 500 x 500 x 450mm



## Benito Kube M Chair

Ref: UM-372 SLM [290kg]

• 500 x 500 x 450mm



## Benito Kube Chair

Ref: UM-372 S [270kg]

• 500 x 500 x 450mm



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## Benito Kube Planter

Ref: UM-1372 SLP [80kg]

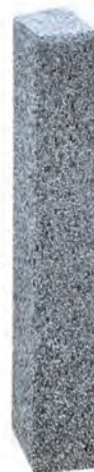
- 580 x 580 x 500mm



## Benito Kube Bollard

Ref: H-372 [28kg]

- 1000 x 120 x 120mm



## Benito Kube Bin

Ref: PA-672 S [200kg]

- 1085 x 500 x 500mm
- 140 litre



## Benito Eterna Bin

Ref: PA-661 HSFE [150kg]

- 1090 x 600 x 400mm
- 80 litre
- Other colours available



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## StoneWrap Stone Cladding

See our StoneWrap video on  
[www.killeshalprecast.co.uk](http://www.killeshalprecast.co.uk)  
or [www.killeshal.com](http://www.killeshal.com)



KPC are pleased to offer StoneWrap, one of the most innovative and increasingly popular cladding/ veneer systems in Europe.

Stonewrap Manufactured Stone has several advantages over natural stone, it is lighter and easier to work with than natural stone and it comes in a wide range of finishes and colours to suit any location, interior or exterior. We have a number of different stone ranges for internal and external applications.

Stone is a beautiful material, and so much a natural part of our environment that it never looks out of place. But while stone can be expensive and difficult to work with, StoneWrap manufactured stone is not. Now you will be amazed at how easy it is to add the beauty, elegance and durability of stone to your property with Stonewrap Cladding from KPC.



We have Stone Wrap in a style and colour to suit every requirement.

If you're unsure about how best to match the right style and colour for your requirements just call our experienced staff and they will be happy to advise.

Stonewrap Manufactured Stone, from KPC is a fantastic product that combines the best qualities of a modern easy to use material with those sought-after qualities of natural stone.

StoneWrap is pre-formed into shapes, including corner pieces, that are easy to work with, requiring little or no alteration before fitting in place and its lightweight nature means it can be added to existing buildings without the need for additional support or enhancement to foundations.



## HYDRAULICALLY PRESSED FLAGS

### • REINFORCED PRESSED DIMPLE FLAGS, WITH LIFTERS

- 900 x 600 x 63mm, F111 [84kg]
- 600 x 600 x 63mm, F112 [56kg]

### • PRESSED DIMPLE FLAGS, NO LIFTERS

- 900 x 600 x 63mm, F111 [84kg]
- 600 x 600 x 63mm, F112 [56kg]

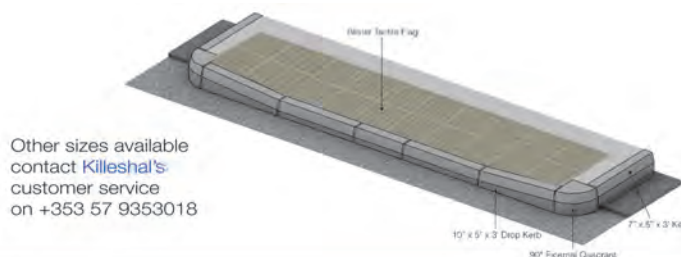
### • PRESSED FLAGS

- 900 x 600 x 63mm, F110 [82kg]
- 900 x 600 x 50mm, F110A [65kg]
- 600 x 600 x 63mm, F109 [54kg]
- 600 x 600 x 50mm, F106 [43kg]

### • PLAIN/SMOOTH FLAGS

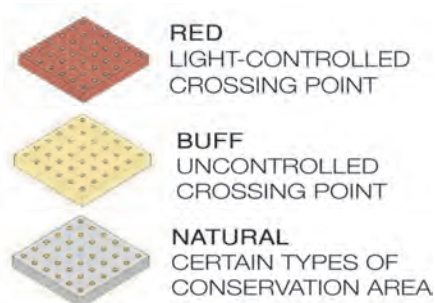
- 400 x 400 x 40mm, F117 [15kg]

## KILLESHAL'S TYPICAL TACTILE FLAG DETAILS



Other sizes available  
contact Killeshal's  
customer service  
on +353 57 9353018

Designed to assist visual impaired pedestrians through crossing points



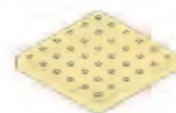
## BLISTER (BS EN 1339: 2003) [19.2kg]

### APPLICATION

- identify the location of a drop kerb and a safe place to cross
- installation: to span the full width of the crossing from left to right drop kerb
- 400 x 400 x 50mm\*



- 400 x 400 x 50mm\*



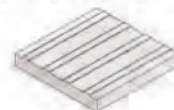
## CYCLEWAY (BS EN 1339: 2003) [19.2kg]

### APPLICATION

- to indicate the beginning or the end of shared pedestrian/cycle routes not separated by different levels
- a central delineation strip running the length of the share route provides a false kerb for the visually impaired pedestrian
- installation: laid transverse to denote the pedestrian path, longitudinal to direction of the travel
- 400 x 400 x 50mm\*



- 400 x 400 x 50mm\*



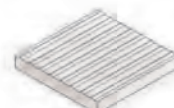
## HAZARD WARNING / CORDUROY (BS EN 1339: 2003) [19.2kg]

### APPLICATION

- warns of a hazard and to proceed with caution
- for use at: top and bottom of stair flights, level crossing, intersections of shared cycle/pedestrian routes
- installation: at 90° and 400mm away from the hazard
- 400 x 400 x 50mm\*



- 400 x 400 x 50mm\*



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## PLATFORM EDGE (BS EN 1339: 2003) [19.2kg]



### APPLICATION

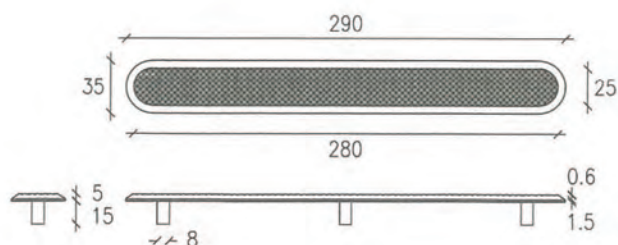
- to indicate the presence of a heavy rail system (either surface or underground rail systems) platform edge
- off-street applications
- installation: along the entire length of the platform, install parallel to the platform edge, position 600-700mm away from the platform edge



• 400 x 400 x 50mm\* | 19.2kg

\* other sizes available

## TACTILE BAR (TB5007B)

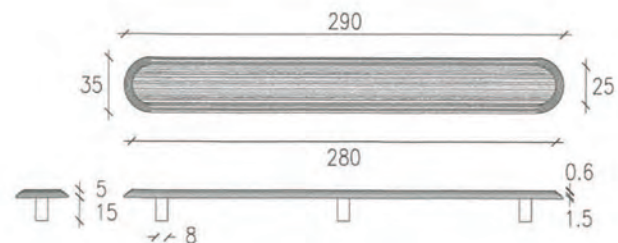


Tactile indicator strip  
Grater Bar  
Stainless Steel with  
knurled surface.

290 x 35 x 5mm



## TACTILE BAR (TB5006A)

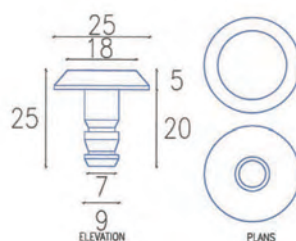


Tactile indicator strip  
Stainless Steel with  
longitudinal ridging.

290 x 35 x 5mm

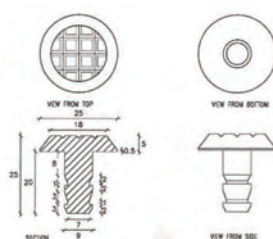


## TACTILE STUD M124 (TS1323)



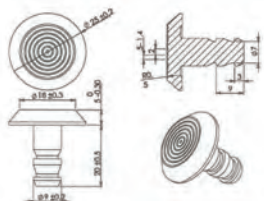
- Tactile indicator stud in Stainless Steel with plain surface.
- Marine grade 304 / 316 stainless steel.
- 25 x 25 x 5mm.

## TACTILE STUD M140 (TS1440)



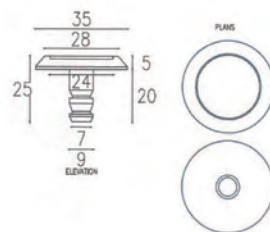
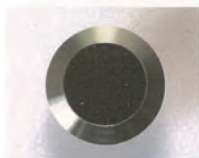
- Tactile indicator stud in Stainless Steel with hatched surface.
- Marine grade 304 / 316 stainless steel.
- 25 x 25 x 6mm.

## TACTILE STUD M146 (TS1156)



- Tactile indicator stud in Stainless Steel with grooved surface.
- Marine grade 304 / 316 stainless steel.
- 25 x 25 x 5mm.

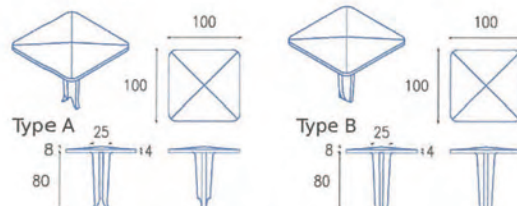
## TACTILE STUD M147 - Black / White / Yellow



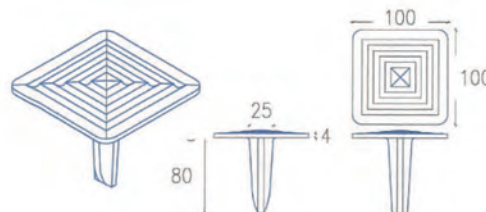
- Tactile stud in Stainless Steel with Carborundum or Luminous insert
- Marine grade 304 / 316 stainless steel
- 25 x 25 x 5mm

## PELISTUD M119

- Plain faced Steel Pelistud with either a fishtail leg (Type A) or chiselled leg (Type B)
- 290 x 35 x 5mm

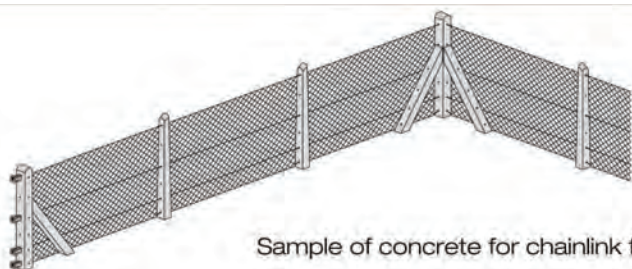


- Serrated faced Steel Pelistud
- 290 x 35 x 5mm



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Sample of concrete for chainlink fencing



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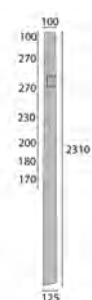
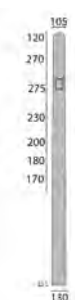
## CONCRETE FOR CHAINLINK FENCING 5' 3" - 1580mm



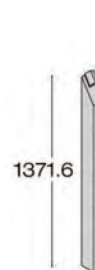
5' 3" Intermediates [30kg]  
1580x125 to 85mm\*



2 & 3 Way 5' 6" Strainer [39kg]  
1660x120 to 105mm\*



4' 6" Strut [32kg]  
1371x100 to 100mm\*



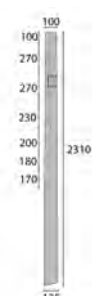
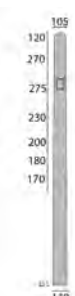
## CONCRETE FOR CHAINLINK FENCING 6' 6" - 1990mm



6' 6" Intermediates [50kg]  
1990x125 to 105mm\*



2 & 3 Way 7' 6" & 6' 6"  
Strainer [75kg]  
1990x130 to 105mm\*



7' 0" & 6' 6" Strut [51kg]  
1990x100 to 100mm\*



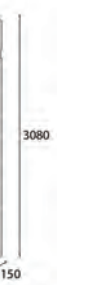
## CONCRETE FOR CHAINLINK FENCING 8' 0" - 2410mm



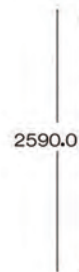
8' 0" Intermediates [55kg]  
2410x145 to 85mm\*



2 & 3 Way 9' 0" Strainer [64kg]  
2750x135 to 135mm\*



8' 6" Strut [62kg]  
2590x100 to 100mm\*



\* approx

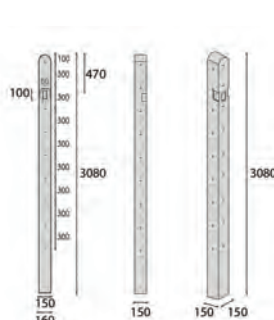
## CONCRETE FOR CHAINLINK FENCING 10' 0" - 3048mm



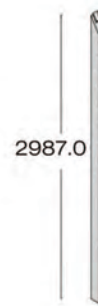
10' 0" Straight  
Intermediates [59kg]  
3048x135 to 90mm\*



2 & 3 Way 10' 0"  
Straight Strainer [73kg]  
3048x150 to 140mm\*



9' 10" Strut [71kg]  
2987x100 to 100mm\*

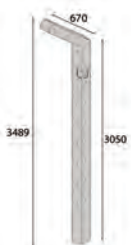


## CONCRETE FOR CHAINLINK FENCING BENT ARM 10' 0" - 3110mm

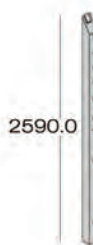
10' 0" Bent Arm  
Intermediates [105kg]  
3110x128 to 105mm\*



10' 0" Bent Arm Strainer [130kg]  
3048x150 to 140mm\*



8' 6" Strut [120kg]  
2590x100 to 100mm\*



10' 0" Bent Arm Corner [100kg]  
2960x160 to 150mm\*

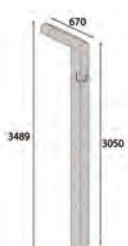


## CONCRETE FOR CHAINLINK FENCING BENT ARM 12' 0" - 3452mm

12' 0" Bent Arm  
Intermediates [127kg]  
3452x135 to 95mm\*



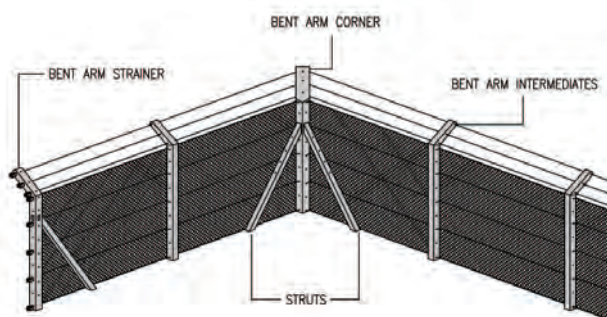
12' 0" Bent Arm Strainer [155kg]  
3452x150 to 140mm\*



9' 10" Strut [148kg]  
2987x100 to 100mm\*



12' 0" Bent Arm Corner [187kg]  
3490x160 to 150mm\*



\* approx



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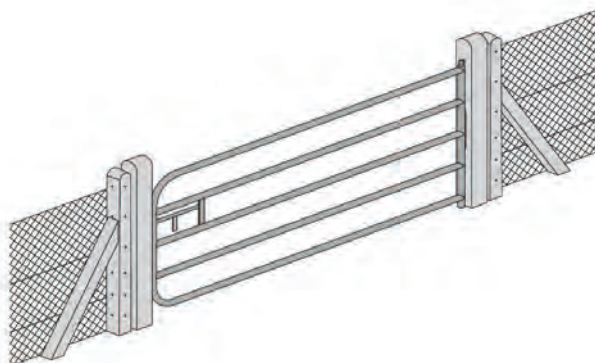


## GATE POST [320kg]

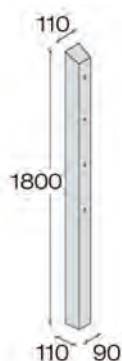


Standard Lengths

- 7' 6" Gate Post  
2280 x 150 to 150mm\*



## CONCRETE FOUNDATION POST [43kg]



Dig hole about  
600mm deep  
against post



Place spur post  
in hole and mark  
bolt hole positions



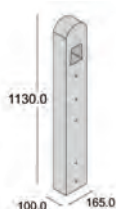
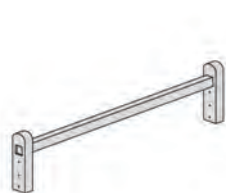
Remove spur and  
drill post keeping  
level and straight



Replace spur and bolt  
to post. Fill hole with  
rubble and concrete.  
Check post is upright.



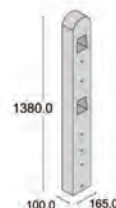
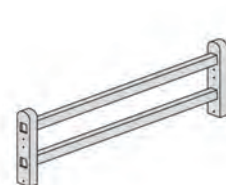
\* approx



### SINGLE RAIL - 1130mm [48kg]

Standard Lengths

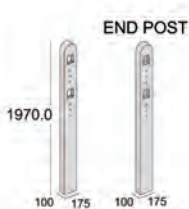
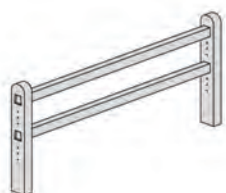
- 3'7" 1 HOLE POST 1130 x 165 x 100mm\*
- 8'4" RAIL 2540 x 100 x 80mm\*



### TWO RAIL - 4'6" 1380mm [50kg]

Standard Lengths

- 4'6" 2 HOLE POST 1380 x 165 x 100mm\*
- 8'4" RAIL 2540 x 100 x 80mm\*



### TWO RAIL 6'6" - 1970mm [80kg]

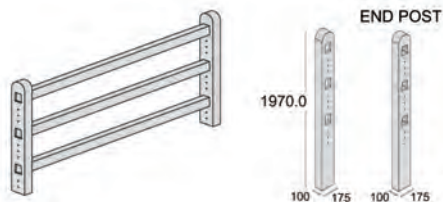
Standard Lengths

- 6'6" 2 HOLE POST 1970 x 175 x 100mm\*
- 8'4" RAIL 2540 x 100 x 80mm\*
- END POST OR SHORTER POST  
6'6" 1970 x 175 x 100mm\*



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## THREE RAIL 6'6" - 1970mm [80kg]



Standard Lengths

- 6'6" 3 HOLE POST 1970 x 175 x 100mm\*
- 8'4" RAIL 2540 x 100 x 80mm\*
- END POST OR SHORTER POST 6'6" 1970 x 175 x 100mm\*



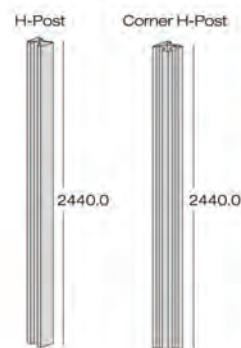
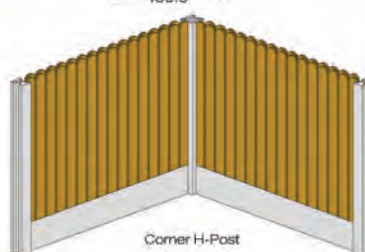
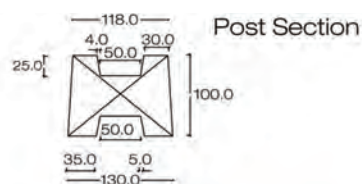
## H-POST [25kg p/m]

### H-POST

Standard Lengths

- 6ft - 1.8m
- 7ft - 2.1m
- 8ft - 2.4m
- 9ft - 2.7m
- 10ft - 3.0m
- 11ft - 3.3m
- 12ft - 3.6m
- 8ft for 3 way corner post 2.4m

To suit plain panels, rock faced panels and timber panels

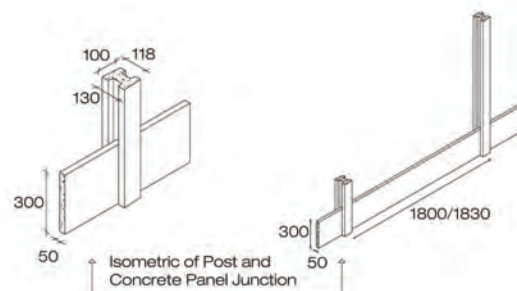
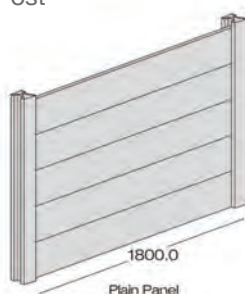


## 1800 PLAIN PANELS [65kg]

Standard Lengths

- 1800 x 300 x 50 Panel

To suit H-Post

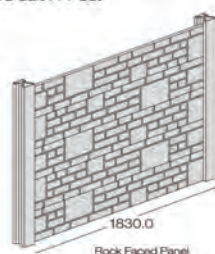


## 1830 ROCK FACED PANELS [68kg]

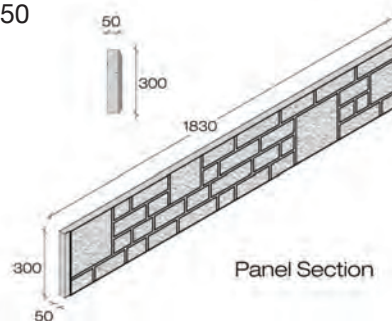
STANDARD LENGTHS

- 1830 ROCK FACED PANEL

To suit H-Post



1830x300x50

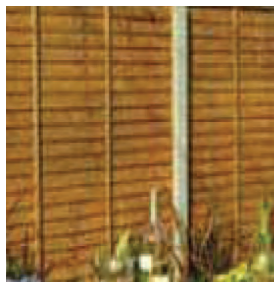


\* approx

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## SHIPLAP PANELS



### SHIPLAP PANEL GOLDEN BROWN

1.8 x 1.8m (CODE 1001)  
 1.8 x 1.5m (CODE 1002)  
 1.8 x 1.2m (CODE 1003)



### SHIPLAP PANEL PRESSURE TREATED

1.8 x 1.8m (CODE 1006)  
 1.8 x 1.5m (CODE 1007)  
 1.8 x 1.2m (CODE 1008)



### PREMIER ROUND TOP HIT & MISS 95mm PRESSURE TREATED

1.8 x 1.8m (CODE 1087)  
 1.8 x 1.5m (CODE 1088)  
 1.8 x 1.2m (CODE 1089)  
 1.8 x 0.9m (CODE 1090)



### PREMIER ROUND TOP CLOSED BOARD 95mm PRESSURE TREATED

1.8 x 1.8m (CODE 1083)  
 1.8 x 1.5m (CODE 1084)  
 1.8 x 1.2m (CODE 1085)  
 1.8 x 0.9m (CODE 1086)



## PREMIER ROUND TOP BOARDS

### PREMIER ROUND TOP BOARDS 95mm PRESSURE TREATED AND RIBBED

1.8m x 95 x 16mm  
(CODE 1279);

1.5m x 95 x 16mm  
(CODE 1280);

1.2m x 95 x 16mm  
(CODE 1281);

0.9m x 95 x 16mm  
(CODE 1282)



### PREMIER ROUND TOP BOARDS 145mm PRESSURE TREATED

1.8m x 145 x 18mm  
(CODE 1283);

1.5m x 145 x 18mm  
(CODE 1284);

1.2m x 145 x 18mm  
(CODE 1285);

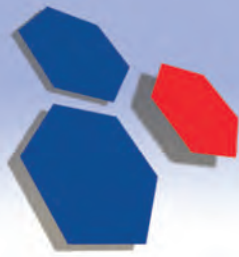
0.9m x 145 x 18mm  
(CODE 1286)



\* approx

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