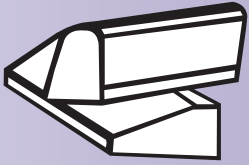


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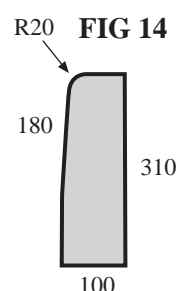
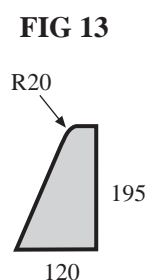
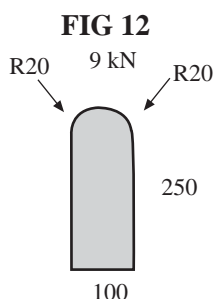
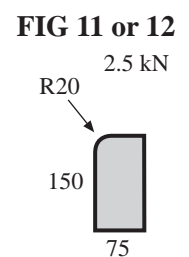
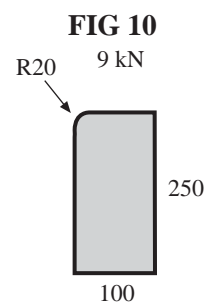
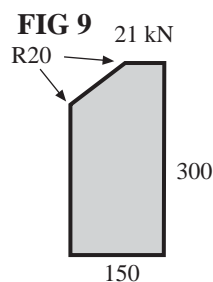
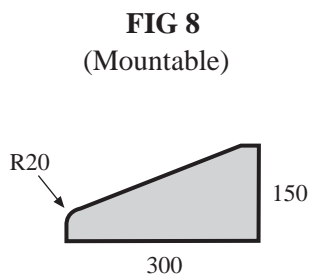
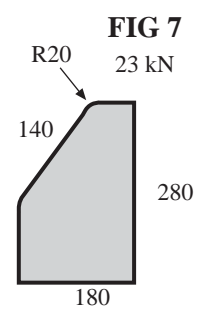
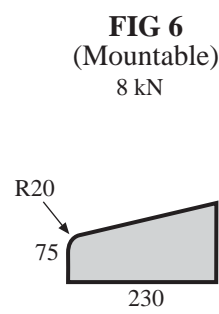
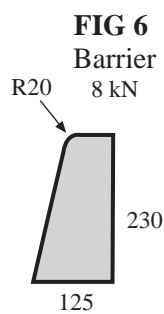
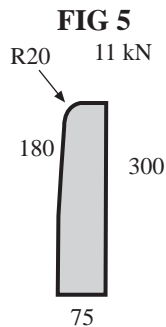
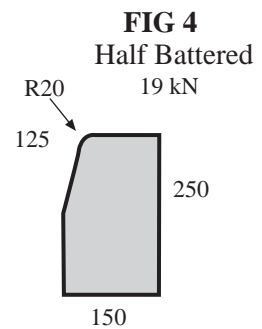
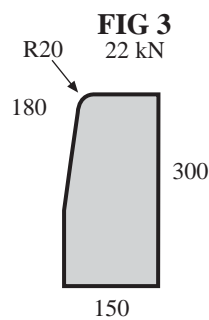
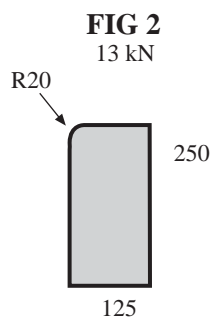
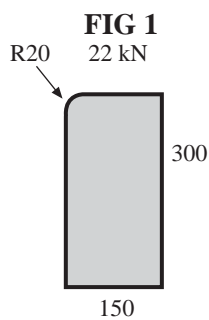


## Kerbs

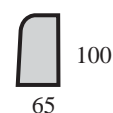
As per Ethekweni Spec

All products must comply with the following:

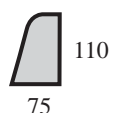
- 1) Free from cracks other than hair line cracks;
- 2) Free from visible twist and dents;
- 3) No patching of defective surfaces or edges;
- 4) The colour of the product should be uniform.
- 5) Arrises must be truly formed



**Mini  
Kerb 80**

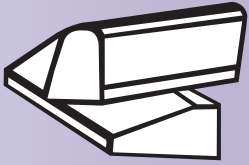


**Tapered Mini Kerb**



Kerbs are available in 1/3's and 1 metre

NOTE: The tolerance of longitudinal and radial dimensions is  $\pm 3$ mm.



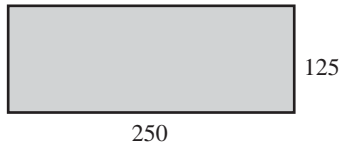
# KALVIS CC

PRECAST CONCRETE SPECIALIST

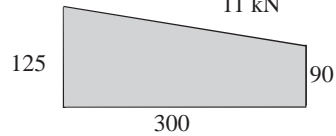
## Kerbs

As per Ethekweni Spec

**FIG 13**  
Rectangular  
13 kN



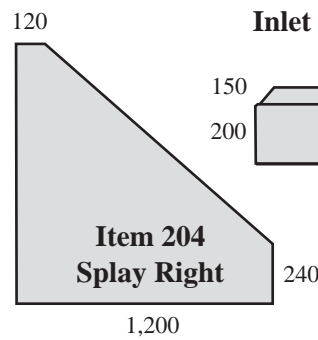
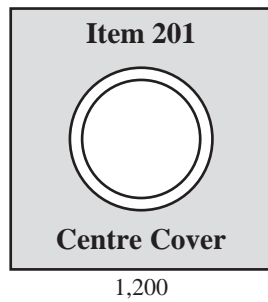
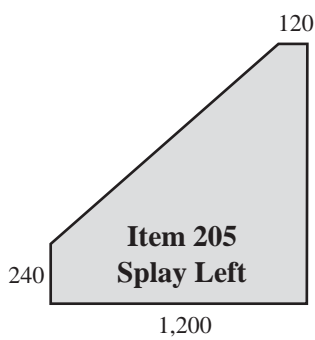
**FIG 14**  
Tapered  
11 kN



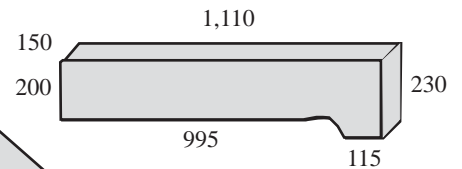
## Ethekweni Products

As per ETHEKWINI Specification

Available L/D x 100 H/D x 150



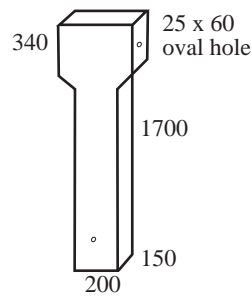
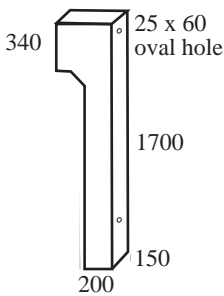
**Inlet Support Beam Item 203**



### Guard Rail Post

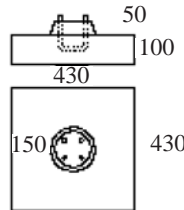
Single Head 300 mm  
Single Head 400 mm

Double Head 300 mm  
Double Head 400 mm



### PARKING METER HANDRAIL POST

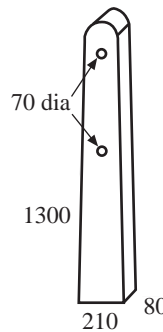
#### BASE



#### Rodding Cover



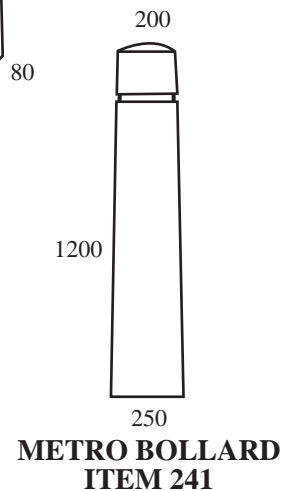
750 x dia x 100  
with 2m galvanised wire

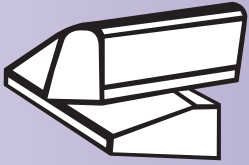


### METRO BOLLARD ITEM 212



250

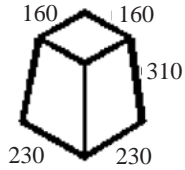




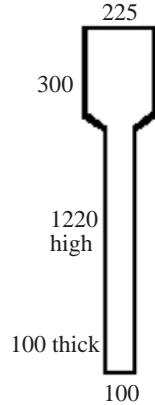
## Ethekwini Products

As per ETHEKWINI Specification

**Cable Marker**

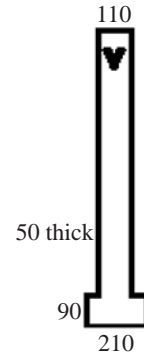


**Valve Marker Post**

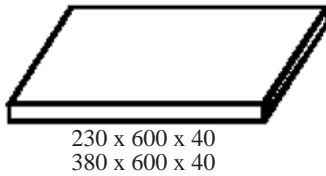


**T Marker**

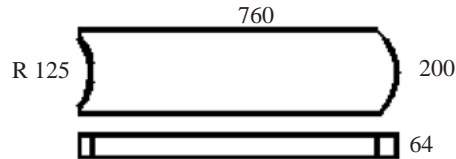
- V - valve
- W - water
- F - fire
- SV - scorer valve



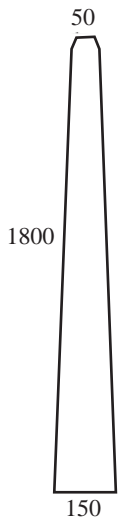
**E D Slabs**



**Cable Marker**



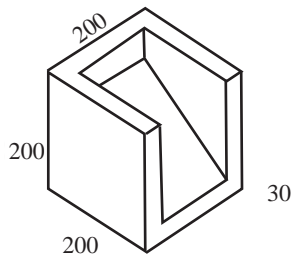
**Pipeline Marker Post**



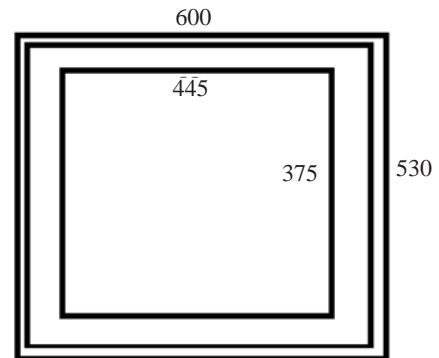
12mm chamfer



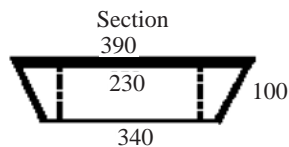
**ETHEKWINI LOUVER VENT BLOCK**



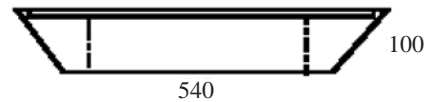
**VALVE CHAMBER STD RECTANGULAR**

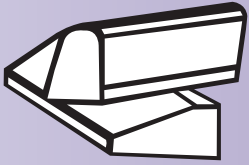


**VALVE SPACER RING**



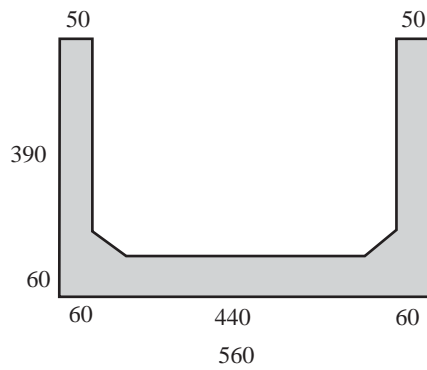
Section



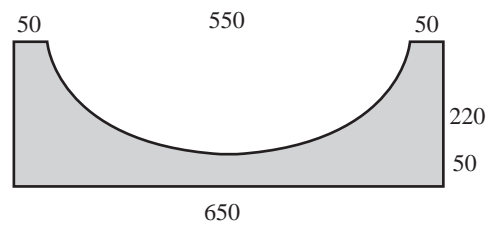


## Water Channels

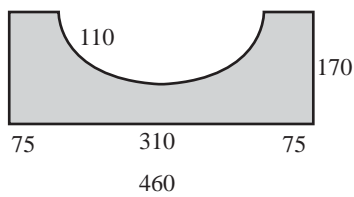
**TYPE 01**  
x 1000mm



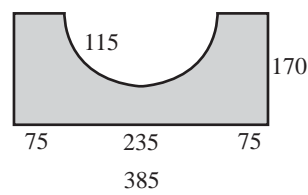
**TYPE 02**  
x 500mm



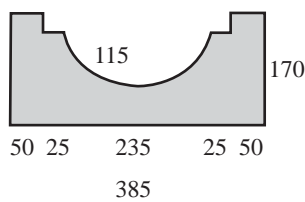
**TYPE 03**  
13 x 1000mm



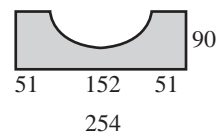
**TYPE 04**  
14 x 1000mm



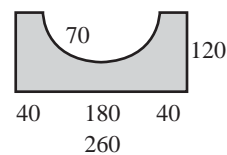
**DRIVEWAY TYPE 15**  
with rebate for  
galv. steel grating



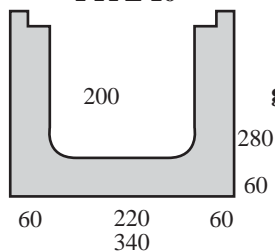
**TYPE 05 x 1000mm**



**TYPE**  
16 x 1000mm



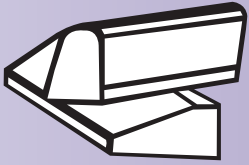
**DRIVEWAY**  
**TYPE 16**



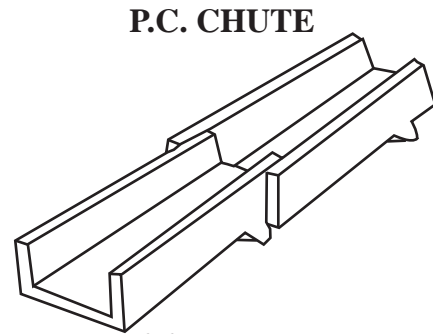
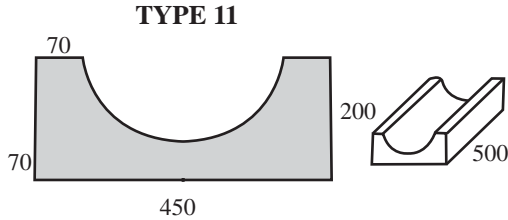
with rebate for  
galv. steel grating



**GALV STEEL GRATING**  
FOR TYPE 15 & 16



## Water Channels

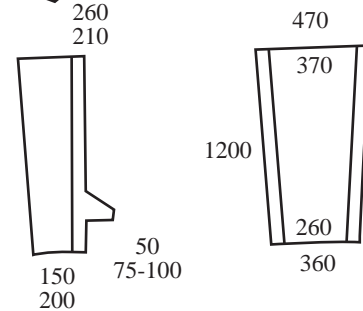
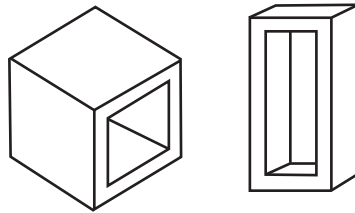


## Grill Blocks

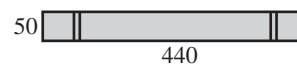
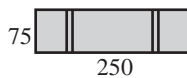
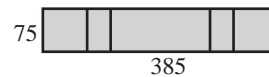
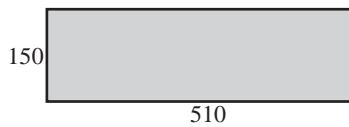
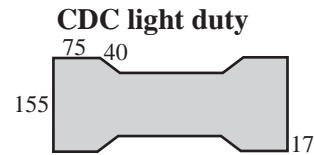
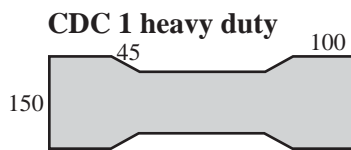
Orders for non standard sizes welcome for any quantity

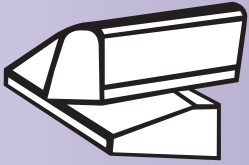
**Grill Blocks**

- 150 x 150 x 150
- 315 x 150 x 115
- 150 x 150 x 110
- 190 x 190 x 190
- 230 x 230 x 150
- 285 x 285 x 110
- 203 x 203 x 110
- 295 x 295 x 110



## Channel Drain Covers





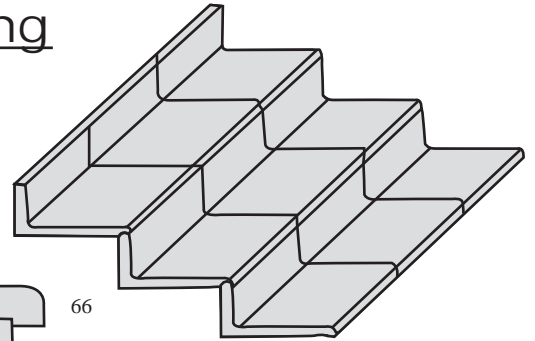
# KALVIS CC

PRECAST CONCRETE SPECIALIST

**Flat Seating**  
605

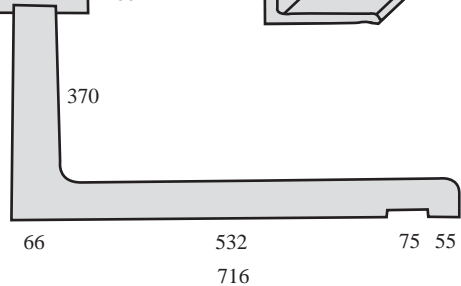


**Pavilion Seating**

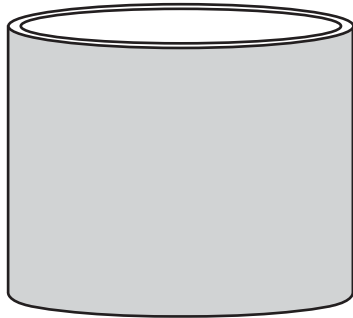


**L. Shaped Seating**

Length of seat 600mm



**Manhole shaft/chamber and covers**



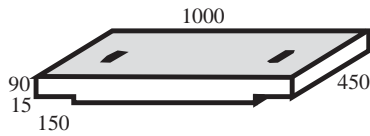
Covers and lids  
in light and heavy duty

- Manhole Shaft
- 750 dia x 500
- 750 dia x 250
- 1000 dia x 500
- 1000 dia x 250

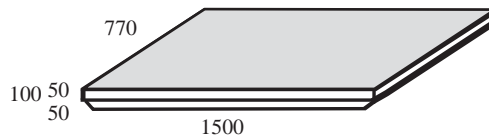


**Ethekwini & Telkom Spec. Products**

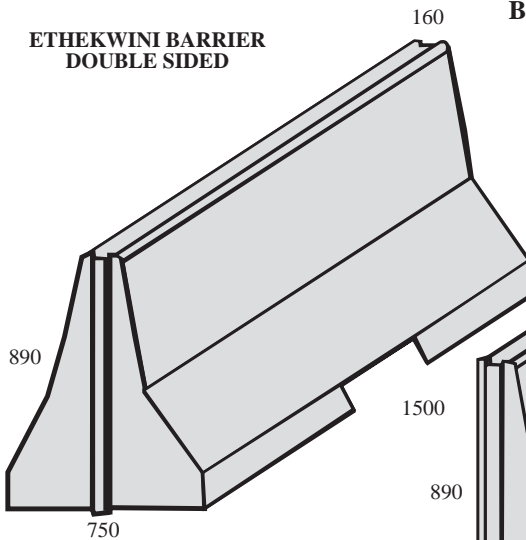
**TELKOM COVER**



**ETHEKWINI ACCESS SLAB**

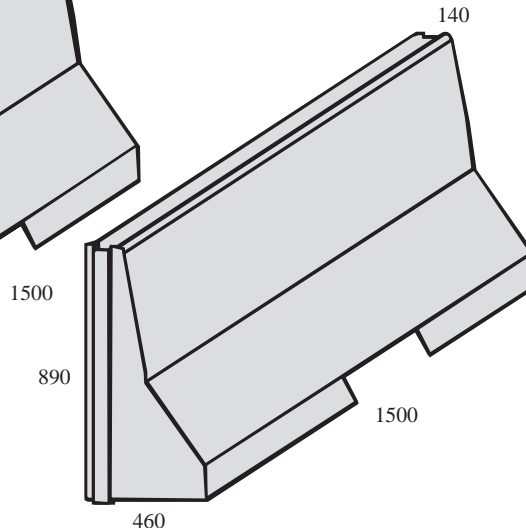


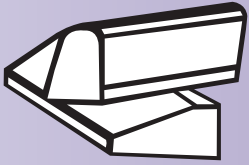
**ETHEKWINI BARRIER DOUBLE SIDED**



**BARRIERS**

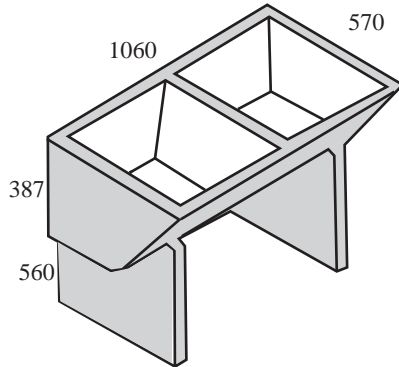
**ETHEKWINI BARRIER SINGLE SIDED**



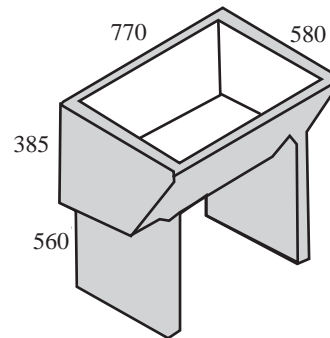


## Wash Troughs

**DOUBLE**

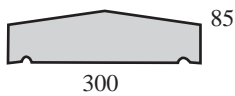


**SINGLE**

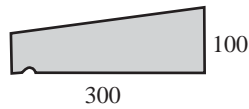


## Wall Capping

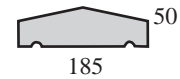
**WC 1**



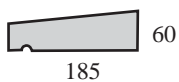
**WC 2**



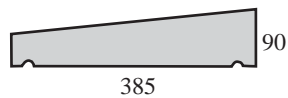
**WC 3**



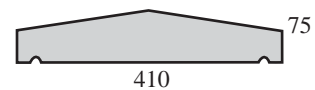
**WC 4**



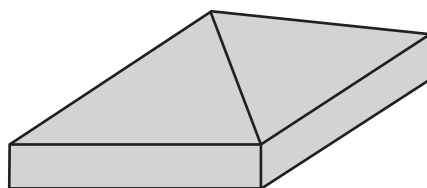
**WC 5**



**WC 6**



## **Square/Capping**



### Standard Sizes

349 x 350 x 138

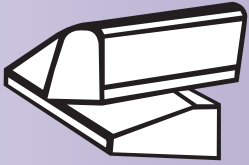
449 x 450 x 138

549 x 550 x 198

649 x 650 x 118

Special size can be  
made to order





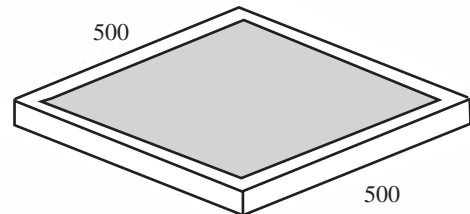
## Pedestrian Paving Slabs

### Finishes

#### Non slip

### Size

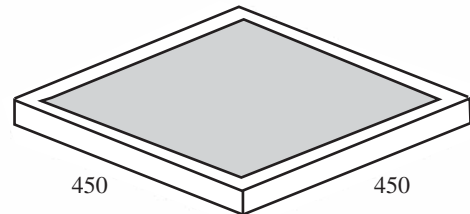
**500 x 500 x 50**  
**450 x 450 x 50**  
**610 x 610 x 50**



**Non slip**

#### Hand-float finish

**500 x 500 x 50**  
**460 x 460 x 40**

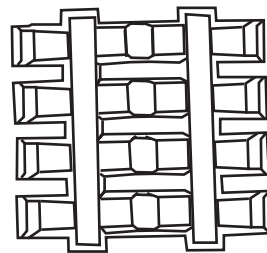


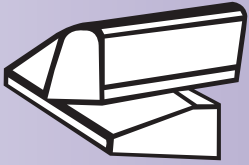
**Hand float finish**

## Grass Blocks

498 x 498mm sq. x 112

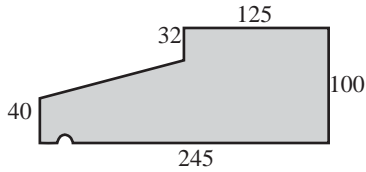
Soil to fill = 0.024 m<sup>3</sup> per sq.



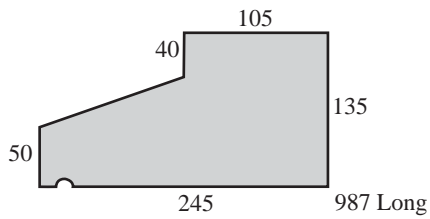


## Sills A

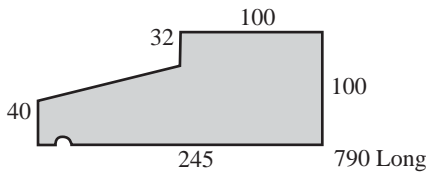
**S1 245 x 100**



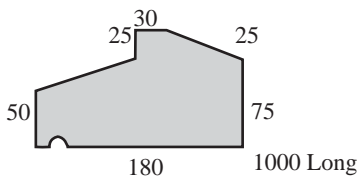
**S3 245 x 135**



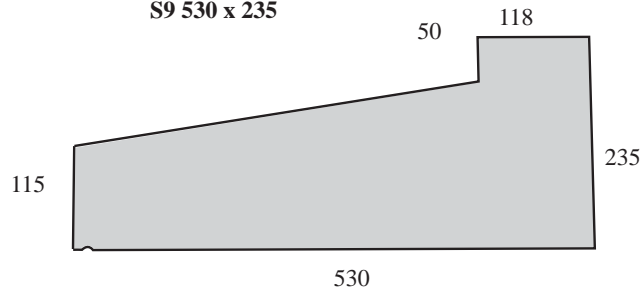
**S5 245 x 100**



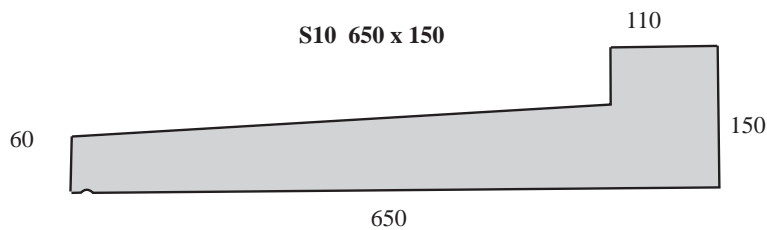
**S7 180 x 75**



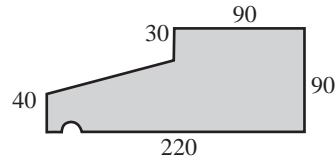
**S9 530 x 235**



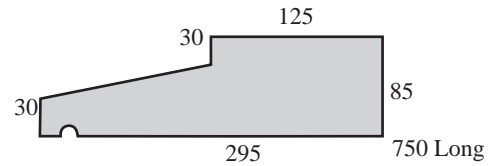
**S10 650 x 150**



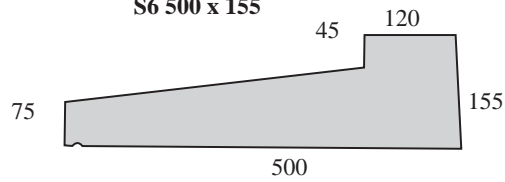
**S2 220 x 90**



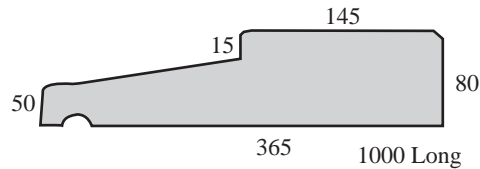
**S4 295 x 85**



**S6 500 x 155**

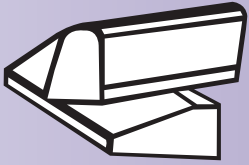


**S8 365 x 80**



**BOOK LEAF CILL**

NOTE: Sills will only be manufactured on request

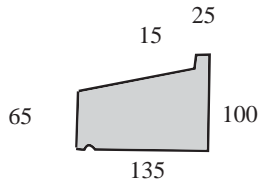


# KALVIS CC

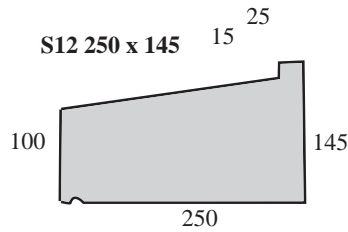
PRECAST CONCRETE SPECIALIST

## Sills B

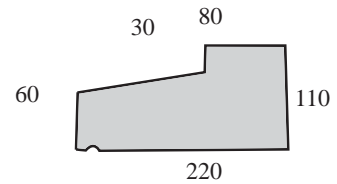
**S11 135 x 100**



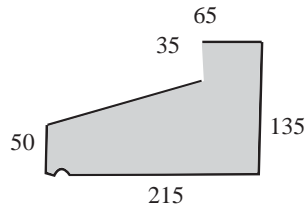
**S12 250 x 145**



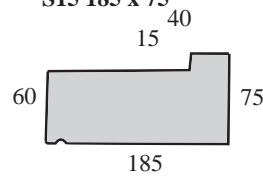
**S13 220 x 110**



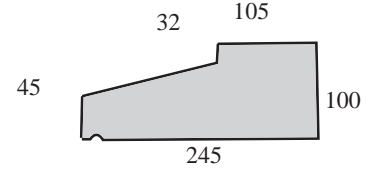
**S14 215 x 135**



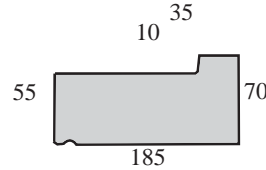
**S15 185 x 75**



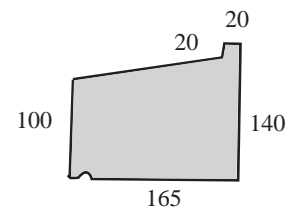
**S16 245 x 100**



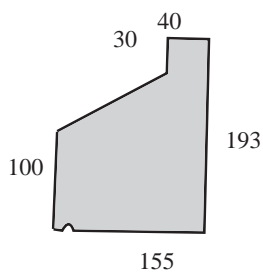
**S18 185 x 70**



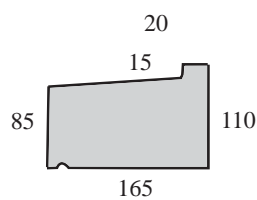
**S19 165 x 140**



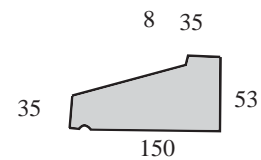
**S17 155 x 193**



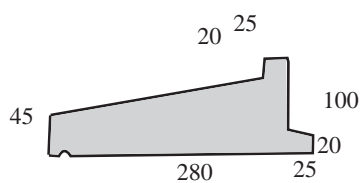
**S20 165 x 110**



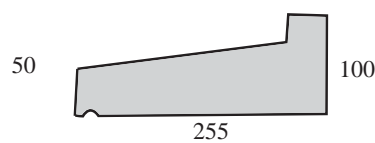
**S21 150 x 53**



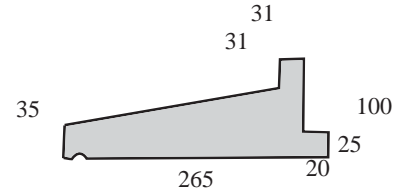
**S22 280 x 100**



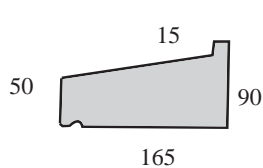
**S23 255 x 100**



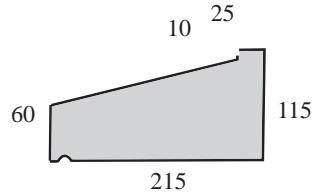
**S24 265 x 100**



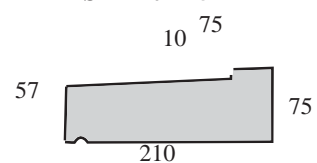
**S25 165 x 90**



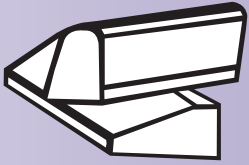
**S26 215 x 115**



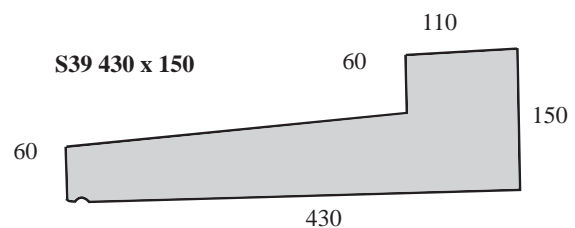
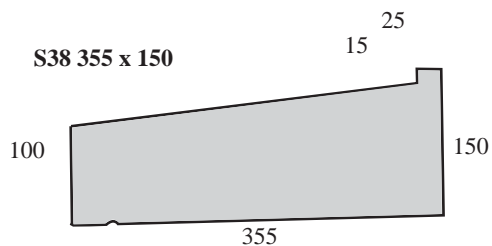
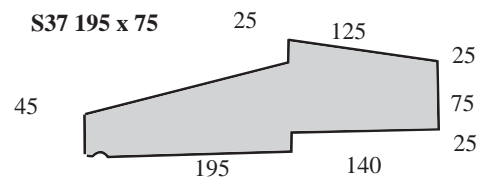
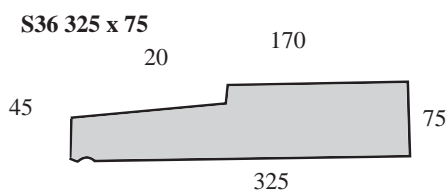
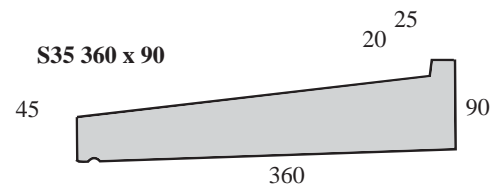
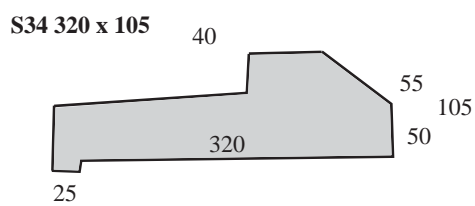
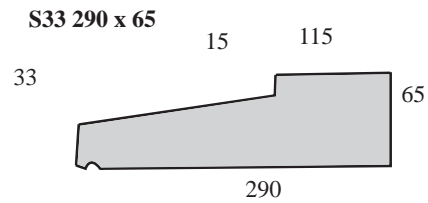
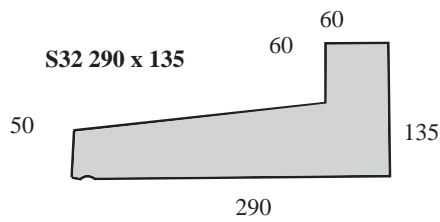
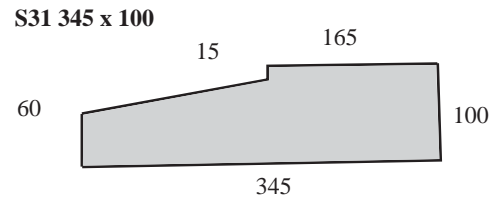
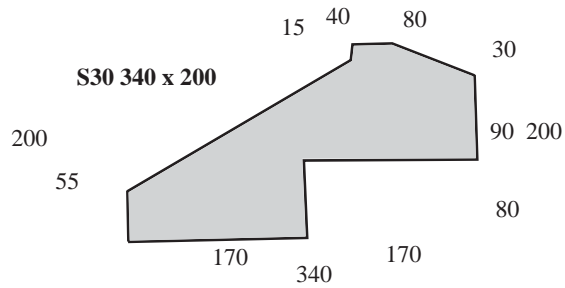
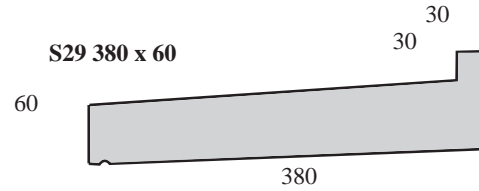
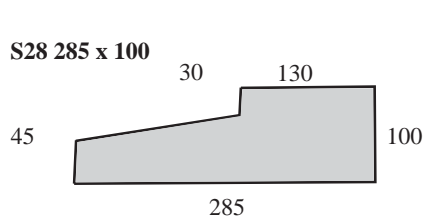
**S27 210 x 75**



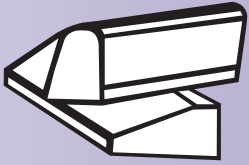
NOTE: Sills will only be manufactured on request



## Sills C

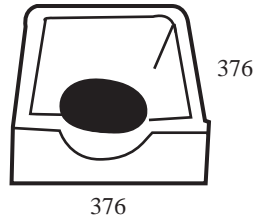


NOTE: Sills will only be manufactured on request

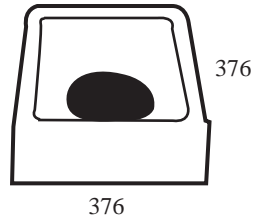


## Gulleys

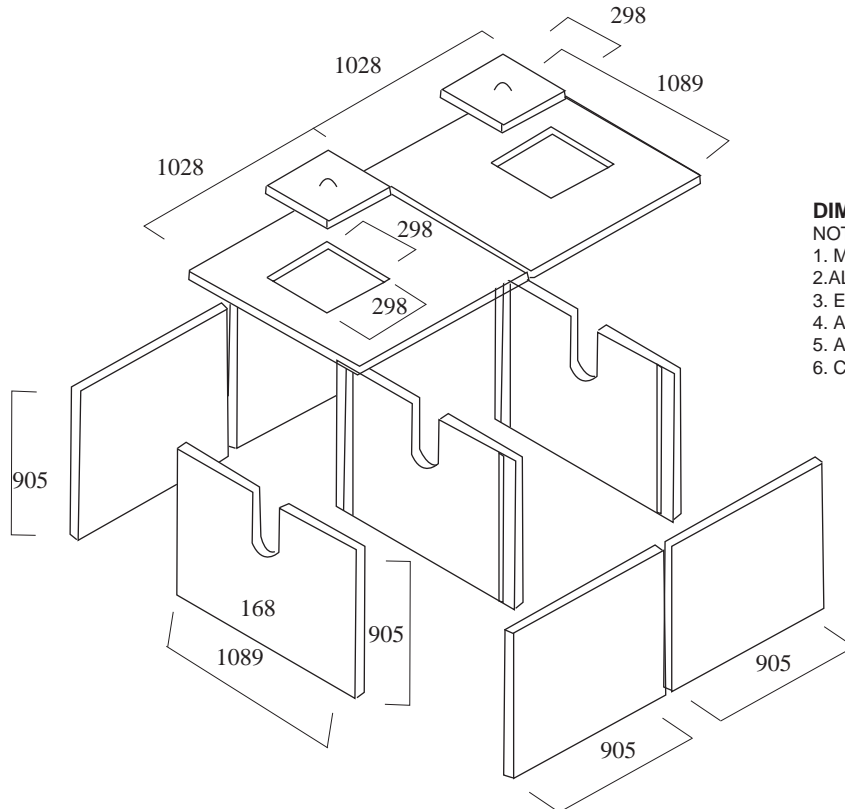
Storm Water Gully Top



Gully Top



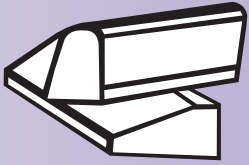
## Septic Tank



**DIMENSIONS:**

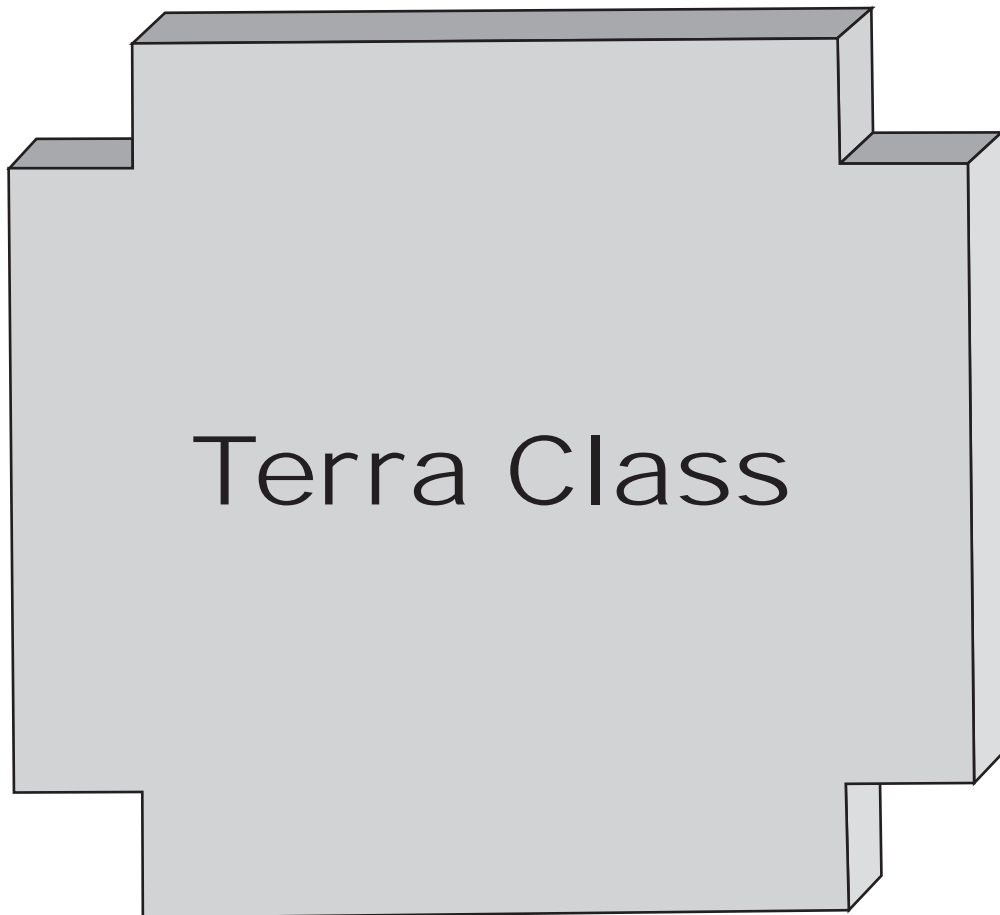
**NOTE:**

1. MASS: 998KG
2. ALL SECTIONS 50mm THICK
3. EFFECTIVE INTERNAL DIMENSIONS: 905 x 905 x 915
4. ALL SECTIONS LIGHTLY RE-INFORCED
5. ADDITIONAL COMPARTMENTS
6. CAPACITY, 620 LITRES /COMPARTMENT

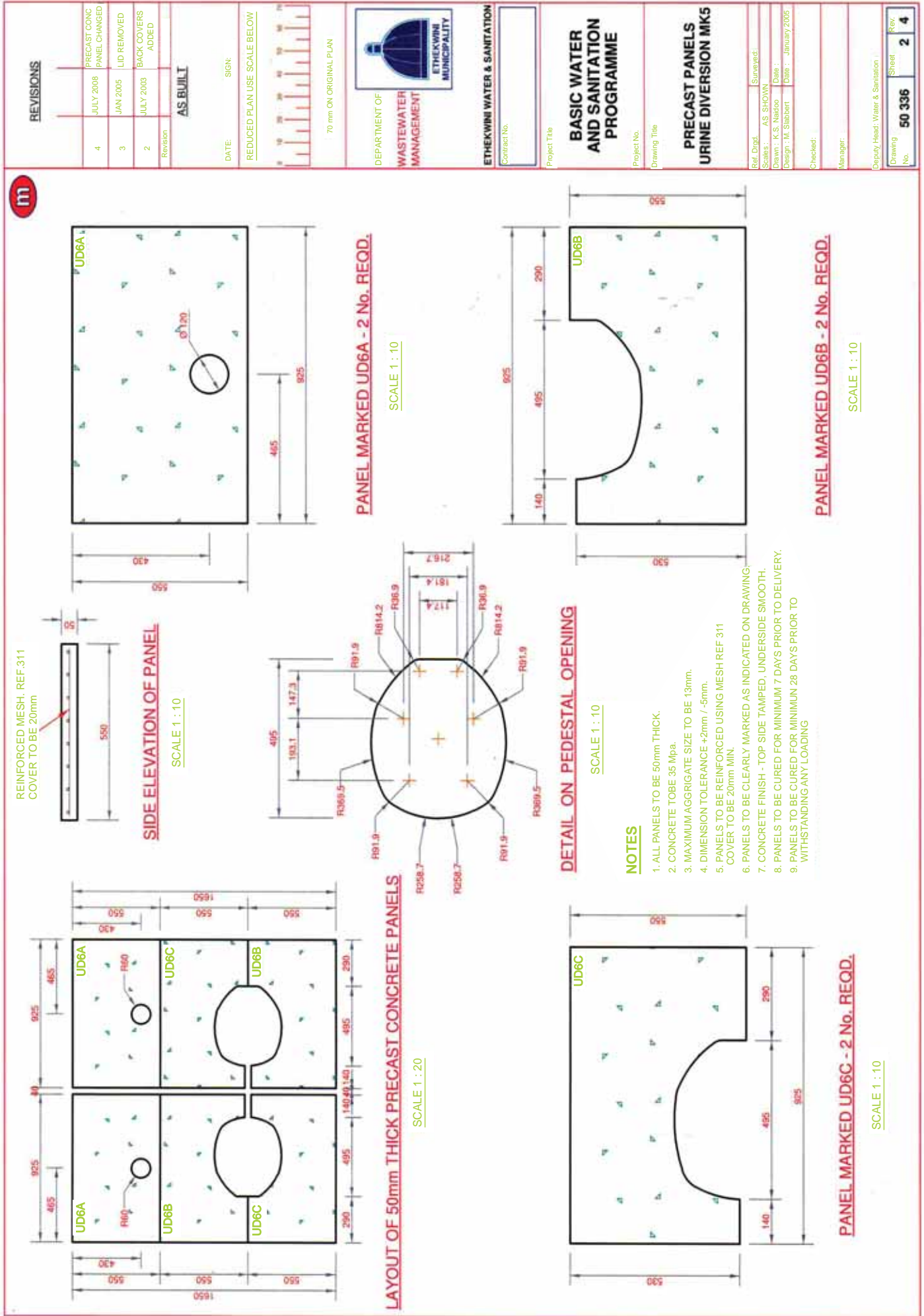


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Approved manufacturer of Reinforced Earth products in KZN



# Precast Panels

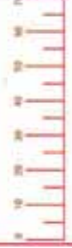


## REVISIONS

Revision	Date	Description
4	JULY 2008	PRECAST CONC PANEL CHANGED
3	JAN 2005	LID REMOVED
2	JULY 2003	BACK COVERS ADDED
<b>AS BUILT</b>		

DATE: \_\_\_\_\_ SIGN: \_\_\_\_\_

REDUCED PLAN USE SCALE BELOW



70 mm ON ORIGINAL PLAN



DEPARTMENT OF WASTEWATER MANAGEMENT

ETHEKWINI WATER & SANITATION

Contract No. \_\_\_\_\_

Project Title

**BASIC WATER AND SANITATION PROGRAMME**

Project No. \_\_\_\_\_

Drawing Title

**PRECAST PANELS URINE DIVERSION MKS**

Ref. Dred. \_\_\_\_\_

Scale: AS SHOWN

Drawn: K.S. Ndlovu

Date: \_\_\_\_\_

Design: M. Sibbert

Date: January 2005

Checked: \_\_\_\_\_

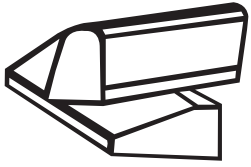
Manager: \_\_\_\_\_

Deputy Head: Water & Sanitation

Drawing No.	50 336	Sheet	2	Rev.	4
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## NOTES

1. ALL PANELS TO BE 50mm THICK.
2. CONCRETE TO BE 35 Mpa.
3. MAXIMUM AGGREGATE SIZE TO BE 13mm.
4. DIMENSION TOLERANCE +2mm / -5mm.
5. PANELS TO BE REINFORCED USING MESH REF 311 COVER TO BE 20mm MIN.
6. PANELS TO BE CLEARLY MARKED AS INDICATED ON DRAWING.
7. CONCRETE FINISH - TOP SIDE TAMPED, UNDERSIDE SMOOTH.
8. PANELS TO BE CURED FOR MINIMUM 7 DAYS PRIOR TO DELIVERY.
9. PANELS TO BE CURED FOR MINIMUM 28 DAYS PRIOR TO WITHSTANDING ANY LOADING



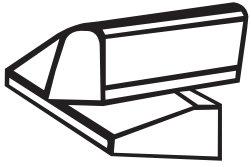
**KALVIScc**  
PRECAST CONCRETE SPECIALIST



## **DURBAN BEACH FRONT (KERBS)**







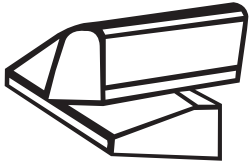
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## Warwick (Barrier kerbs & reinforced earth)



## M41 (KERBS)





**KALVIScc**  
PRECAST CONCRETE SPECIALIST

## Town Gardens (Seating)

