

**Section 3: Surface Water Drainage Solutions:****3.4 QualiDrain Channel and Catchpit Drainage System****3.4.3 Definition: Storm Water Channel Drainage****3.4.2 Product introduction:****A 'Storm Water linear Drain and catchpit' designed for ease of installation and ensuring a 'Quality Finish'.**

QualiDrain is an easy to assemble & install all in one linear channel drainage and catchpit system for the collection & harvesting of rainwater & storm water. It consists of 250mm long Polypropylene channels with Glass-fill Nylon Grating; as well as stop-ends; bottom outlet pipe connectors, end-outlets available in two sizes & a u-clip. The system can handle vehicular traffic up to 12.5 tons and is capable of being installed in domestic or light commercial applications. This is a proudly South African product, manufactured in Knysna and a patented world first.

**3.3.3 Key Benefits:**

- a. Protects garages, driveways, pathways or patios from flooding by effectively collecting excess rainwater and distributing to the storm water system.
- b. T-off in any direction without having to use a T piece and just by connecting the QualiDrain at 90 degrees to each other. Can also connect in L or + directions.
- c. When installed in parallel can serve as a catchpit to any required size.
- d. Polypropylene Body is water repellent and therefore has a high flow rate with the minimum required fall.
- e. The external ribbed structure improves anchoring within concrete and provides rigidity & stability.
- f. Glass-filled Nylon seamless grate design is tough, durable & aesthetically pleasing.
- g. The click together System is simple – no junction boxes required.
- h. Less waste – purchase only the components you need.
- i. Supplied with a protective Dust Cover for use during installation.
- j. Easy to shorten.
- k. This lightweight product is easy to transport & install.
- l. Self-cleaning – just flush with clean water.

**3.3.4 Applications:**

- Can be used to control storm water: for example, in domestic driveways foot paths, in front of sliding doors on patios, atriiums, swimming pools and along pavements. Any outdoor ground floor area that would require a linear drain connected to the storm water or rainwater harvesting system.
- Can also be used to construct catchpits of any size by installing them in parallel.

**3.3.5 Manufacturer's Installation Instructions****3.3.5.1 Lay out of suitable draining line:**

- a. Establish the exact lay out that the draining line must follow
- b. Dig the required trench width & depth as follows: a minimum of 350mm wide by a minimum of 250mm deep. Please account for the size of the storm water pipe specified as it might add to the required depth. *(Rule of thumb as follows: The channel including the outlet & the pipe need to lay on a bed of concrete at least 100mm thick)* The length will depend on how many channels you require. Where a catchpit is to be installed ensure that the concrete into which the QualiDrain is floated goes into the spaces between each parallel laid channel
- c. Break through the provided & indicated area of the channels with a sharp Stanley Knife.

- d. Fit the additional components to the channel.

### 3.3.5.2 Position the channels:

- a. Proceed with the concrete cast for creating the channel bed. *(TIP: to obtain a good concrete, mix 3 parts river sand and some 15mm stone aggregate to 1 part cement & add enough water to result in a fluid concrete. Use a maximum of 15mm Ø stone aggregate so as to enable the concrete to reach the less ribbed areas of the channel).*
- b. Wait approximately 1 hour for the concrete to cure slightly before installing the pipework and laying the channels. While the concrete is drying, prepare the channels needed for the drainage line. When in a straight line, simply click the ends together.
- c. When used as a catchpit, use a Stanley Knife to cut out the channel side where indicated and then join the channels in parallel using a U-Connector and silicone glue to ensure they remain joined in position. It is best to turn the channels on their face while doing this and after the silicone has dried, turning them over before placing them into concrete.
- d. Insert the stop ends where required.
- e. If the discharge point is at the end of the linear drain, then use the appropriate stop end to connect either to a 50mm or 75mm outlet pipe. If connecting to a 110mm storm water pipe, connect using a 75mm to 110mm adapter / reducer.
- f. Lay the channels on the concrete bed & link the bottom outlet to the drainage pipes.
- g. Float the channels with the required fall of 3mm per channel.



### 3.3.5.3 Flanking the Channels:

- a. Backfill with concrete ensuring that all hard-to-reach areas are filled.

**Congratulations you are a proud installer/owner of another Seaqual High Quality finished product.**

### 3.3.6 Maintenance

**NOTE: It is important to keep the Channel Drain well maintained and clean. This should be done regularly according to a maintenance plan, or when: -**

- The storm / surface water has become noticeable slow while draining away.
- The storm / surface water has become blocked and cannot drain away.

**In which case apply the following: -**

- 3.3.6.1 Check that debris has not formed a blockage on the surface of the grate. If this is the case, simply remove and discard the debris.
- 3.3.6.2 Carefully remove the grate and inspect the channel & outlet for foreign matter.
- 3.3.6.3 Clean the channel by removing foreign matter and discard.
- 3.3.6.4 Test the system by flushing only fresh water through the channel (as it could be connected to a water harvest system) and once satisfied carefully replace the grate.
- 3.3.6.5 Should the problem persist, call a qualified Plumber to check the pipeline for blockages.

**\*\*Should any technical assistance be needed during your installation please call our help line 044 382 3484 from Monday - Thursday from 8am till 5pm and Fridays from 8am till 3pm. Alternatively send an email to [tech@seaqual.co.za](mailto:tech@seaqual.co.za). \*\***

**Please contact our Head Office for alternative Product Technical Data Sheets.**

#### 1. Mufle 4All Channel Drainage System

# Seaqual Technical Data Sheet – QualiDrain



## 3.3.7 QualiDrain Drainage System Product Data

### 3.3.7.1 Table A:

Item Colour:	Body & Grate - Black	Body & Grate - Grey	Body & Grate - Sandstone	Body & Grate – Terracotta	Body & Grate - Green
Product Code:	200070	200079	200081	200082	200083
Product Image:					
External Dimensions: L x B x H in mm	250mm x 143mm x 153mm	250mm x 143mm x 153mm	250mm x 143mm x 153mm	250mm x 143mm x 153mm	250mm x 143mm x 153mm
Internal Dimensions: L x B x H in mm	256mm x 100mm x 97mm	256mm x 100mm x 97mm	256mm x 100mm x 97mm	256mm x 100mm x 97mm	256mm x 100mm x 97mm
Weight in kg:	0.850 kg	0.850 kg	0.850 kg	0.850 kg	0.850 kg
Bottom outlet 1 ID Ø	45.5 mm	45.5 mm	45.5 mm	45.5 mm	45.5 mm
Bottom outlet 1 OD Ø	50 mm	50 mm	50 mm	50 mm	50 mm
Bottom outlet 2 ID Ø	70.5 mm	70.5 mm	70.5 mm	70.5 mm	70.5 mm
Bottom outlet 2 OD Ø	75 mm	75 mm	75 mm	75 mm	75 mm
Minimum reduce length to	152mm	152mm	152mm	152mm	152mm
Grate Holes	11mmx11mm 80 diamond holes	11mmx11mm 80 diamond holes	11mmx11mm 80 diamond holes	11mmx11mm 80 diamond holes	11mmx11mm 80 diamond holes
Grate Dimensions:	22mm 31mm centre	22mm 31mm centre	22mm 31mm centre	22mm 31mm centre	22mm 31mm centre
Protection Feature	Dust Cover provided	Dust Cover provided	Dust Cover provided	Dust Cover provided	Dust Cover provided
Product Application	Linear Channel drainage for removal of surface / storm water / Catchpit	Linear Channel drainage for removal of surface / storm water / Catchpit	Linear Channel drainage for removal of surface / storm water / Catchpit	Linear Channel drainage for removal of surface / storm water / Catchpit	Linear Channel drainage for removal of surface / storm water / Catchpit
Design Information					
CAD	Yes	Yes	Yes	Yes	Yes
Revit	Yes	Yes	Yes	Yes	Yes
Packaging Information					
Packaging info	Printed Sleeve	Printed Sleeve	Printed Sleeve	Printed Sleeve	Printed Sleeve
Items / Outer Box	12	12	12	12	12
Total Weight of Outer Box	12.835kg	12.835kg	12.835kg	12.835kg	12.835kg
Dimensions of Outer Box	520 L x 280 W x 620 H	520 L x 280 W x 620 H	520 L x 280 W x 620 H	520 L x 280 W x 620 H	520 L x 280 W x 620 H
Product Barcode	6009880161720	6009880161782	6009880161799	6009880161805	6009880161713
Outer Box Barcode	16009880161727	16009880161789	16009880161796	16009880161802	16009880161710

# Seaqual Technical Data Sheet – QualiDrain



## 3.3.7.2 QualiDrain Accessories Product Data

Product:	QualiDrain Kit End Outlet 50mm x 1	QualiDrain Kit End Outlet 75mm x 1	QualiDrain Kit U-Clip x 1	QualiDrain Kit Stop-end x 1
Product Code:	200071	200072	200073	200074
Product Image:				
Barcode:	6009880161737	6009880161744	6009880161751	6009880161768
Dimensions: L x B x H in mm	50mm Ø 45.5mm Ø L = 115mm B= 5mm H=121mm	75mm Ø 70.5mm Ø L = 115mm B= 5mm H=121mm	117mmx5mmx133mm	115mmx5mmx121mm
Weight in kg:	0.070kg	0.065kg	0.030kg	0.070kg
Product / bag	1	1	1	1

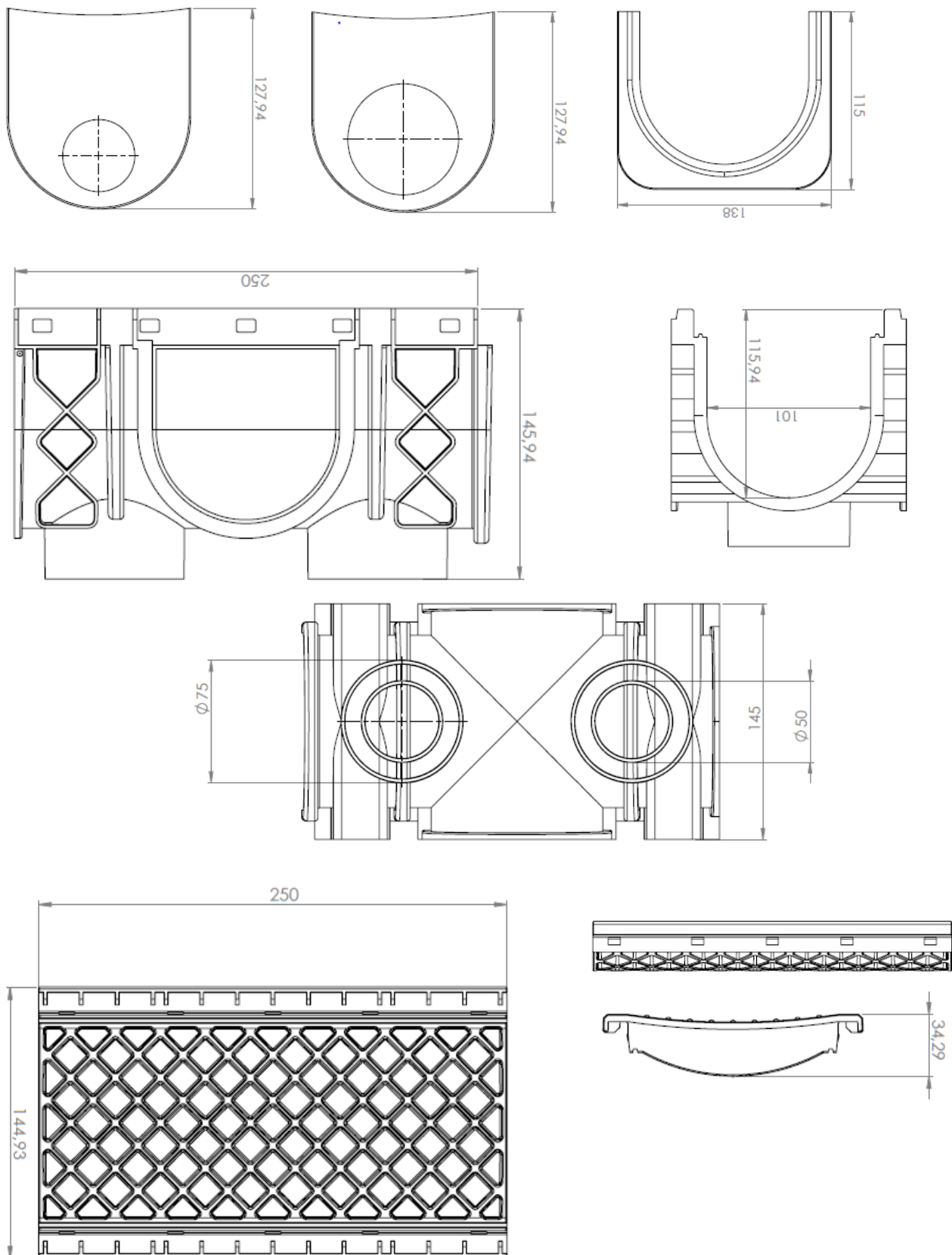
## 3.3.8 Terms & Conditions of Product Warranty

On the conditions appearing below Seaqual warrants that the products it manufactures are free from defect for the periods set out in Warranty Period column for use in the manner described in the Application column.

Seaquals range of products are made from different types of plastics which determines their longevity. Research into the various plastics Seaqual uses indicates that the life expectancy of the various materials ranges from 50 to 100 years and for this reason Seaqual can confidently offer the lengthy warranties set out in the schedule. Under this warranty Seaqual undertakes to replace any item that does not last for the period of the warranty provided that the following conditions are met:-

- 3.3.8.1. Any failure of the product has not been caused by abuse of the Product;
- 3.3.8.2. The Product has been correctly installed in terms of the Installation Instructions provided by Seaqual;
- 3.3.8.3. In the case of floor drains / full-bores / sumps no corrosive liquids have been poured into or through the Product;
- 3.3.8.4. The purchase receipt pertaining to the purchase of the Product or details of where purchased are provided;
- 3.3.8.5. The claim is submitted on line to the Technical Director, Seaqual (Pty) Ltd at tech@seaqual.co.za or in writing to Seaqual at 5 Fechter Street, Knysna Western Cape;
- 3.3.8.6. Photographs of the defective Product are submitted with the claim, Seaqual reserving the right to call for the defective Product itself should the photographs be insufficient evidence of any alleged defect (this within Seaquals sole discretion);
- 3.3.8.7. The claim is limited to the actual replacement of any defective product at no cost to the purchaser/claimant and does not cover any consequential losses that the purchaser may contend he or she has suffered.

**NOTE: The 10 year warranty excludes any component of the product which is not manufactured by Seaqual such as the rubber seals, nuts and bolts. These items carry a 2 year warranty against manufacturer defects. Please note that Seaqual cannot be held responsible for inaccurate installation processes.**

**3.3.9 Drawings & Product Images**

CAD & Revit files are available upon request in writing: [tech@sequal.co.za](mailto:tech@sequal.co.za)

### 3.3.10 Certifications

Sequal (Pty) Ltd is ISO9001:2015 Certified.

#### **WHOLLY MANUFACTURED IN SOUTH AFRICA – Tariff Heading / HS Code 3922.90.90**

These products are available through most Plumbing Merchants within South Africa and can be viewed on our website: <http://www.seaqual.co.za>.

Request for quotations or placing of Orders can be sent to [orders@seaqual.co.za](mailto:orders@seaqual.co.za)