INTRODUCTION

STORMDRAIN

High Capacity Line Drainage

Building on over 25 years of sprayed GRC manufacturing experience and designed by specialists in drainage and concrete slab design. **BCM GRC Ltd** are proud to introduce **STORMDRAIN.**

- Manufactured from "Long Fibre GRC" to incorporate greater strength to weight ratios and enhanced resistance to damage.
- High Capacity allows STORMDRAIN to be laid level.
- The High Capacity of STORMDRAIN aids the design of schemes that require attenuation.
- Longer channel runs, reduced underground pipe work and excavation, reduce site costs.
- Single unit gives a quick and simple installation.
- Stainless Steel Slotted top gives a neat appearance with no lids or gratings to install and maintain.
- Offers all the benefits of GRC including resistance to frost, chemical attack, and road salts.
- Full range of accessories including access ports, silt pits and transition units.
- Easily adapted to different load classes and surface finishes.

STORMDRAIN offers "less cost and less time, every time"

STORMDRAIN

One Channel

Four Surface Finishes

STORMDRAIN

High Capacity Line Drainage

- EASY INSTALLATION
- NO LIDS TO INSTALL OR MAINTAIN
- CAN BE LAID LEVEL

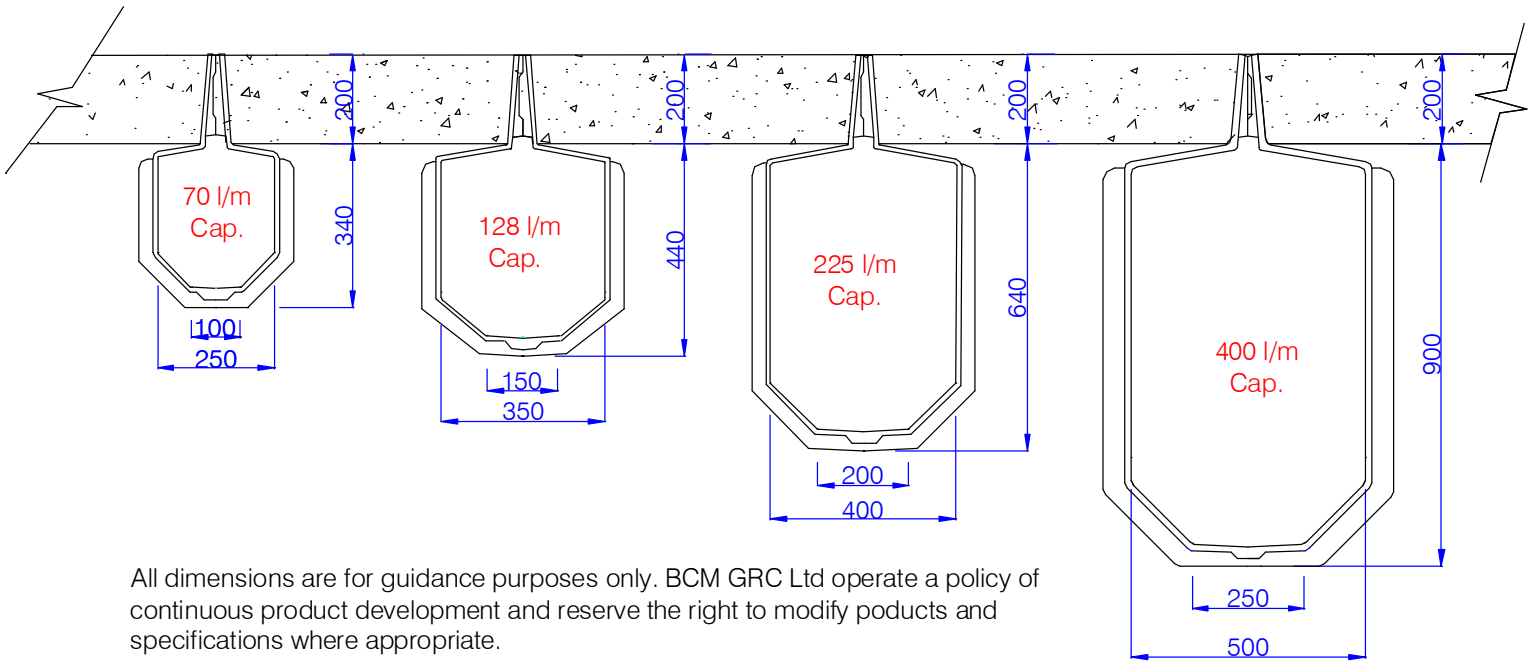
With Stainless Steel Inlet

STORMDRAIN RANGE

STORMDRAIN ™

Channel Range

SD250 SD350 SD400 SD500



All dimensions are for guidance purposes only. BCM GRC Ltd operate a policy of continuous product development and reserve the right to modify poducts and specifications where appropriate.

BCM GRC Ltd.

Drawing not to scale

Unit 22 Civic Industrial Park, Whitchurch, Shropshire SY13 1TT

t: 01948 665321 f: 01948 666381 e: bcmgrc@aol.com w: bcmgrc.com

SPECIFICATIONS

STORMDRAIN

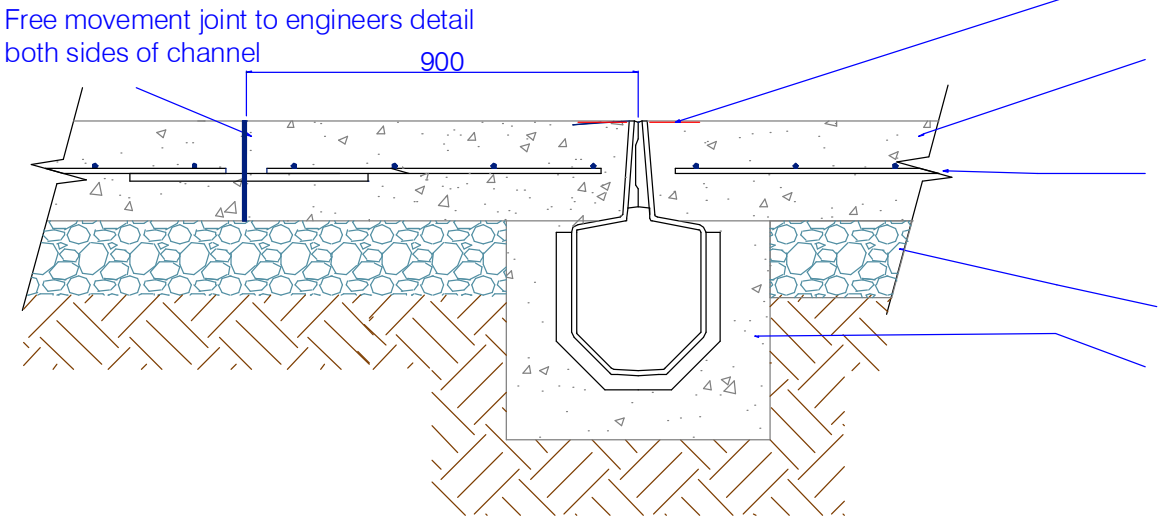
Channel Size	SD 250	SD 350	SD 400	SD500
Capacity:	70 litre/metre	128 litre/metre	225 litre/metre	400 litre/metre
Length:	2000 mm	2000 mm	1500 mm	1500 mm
Overall Width:	270 mm	370 mm	425 mm	530 mm
Internal Width:	250 mm	350 mm	400 mm	500 mm
Overall Depth:	525 mm	625 mm	825 mm	1075 mm
Invert Depth:	505 mm	600 mm	805 mm	1060 mm

INSTALLATION DETAILS

STORMDRAIN™

Typical Construction Details

SD 250



For details on the requirements for larger sizes and higher loadings please contact our sales team.

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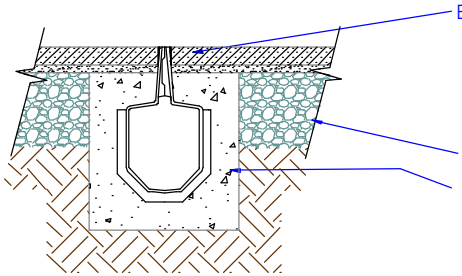
INSTALLATION DETAILS

STORMDRAIN™

Construction Details - Block Paving and Alternative Tarmac Detail.



Block Paving on Sand & Cement Bedding

Hardcore Base

Minimum 200mm Concrete bed & surround, (minimum grade C35)

Reinforcement may be required as per engineers details.

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t:01948 665321 f:01948 666381 e:bcmgrc@aol.com w:bcmgrc.com

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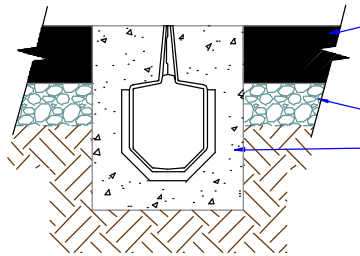
STORMDRAIN™

Construction Details - Flexible Pavement



Tarmac or Block Paving

Hardcore Base

Minimum 200mm Concrete bed & surround, (minimum grade C35)

Reinforcement may be required as per engineer.

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t:01948 665321 f:01948 666381 e:bcmgrc@aol.com w:bcmgrc.com

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The above diagrams show the installation detail for STORMDRAIN in flexible paving and block paving.

ACCESSORIES

Siltpit/Manhole Unit

These universal units can be used as either a siltpit outlet unit or as a mid-run siltpit. All the channel entry holes are pre-cut in the factory, with a manhole adaptor added to the end of the channel, to ensure easy and accurate installation of the STORMDRAIN

They are designed to take a D400 cover & frame, which can be supplied separately.

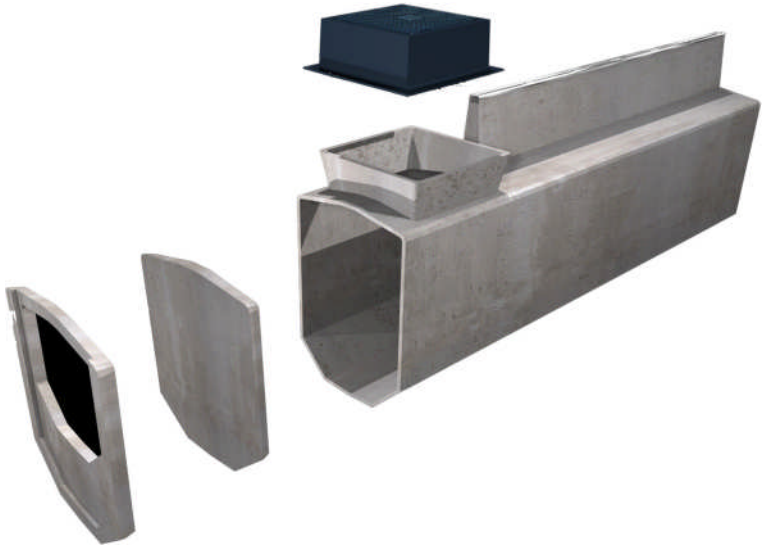
Access Ports

These are available in all STORMDRAIN channel sizes.

They are manufactured as either mid-run access ports or end access ports with end caps included.

The inclusion of a factory cut transition plate turns an access port into a transition unit.

D 400 cover and frame to suit are available separately.



DESIGN CHARTS

STORMDRAIN Laid to Gradient

Gradient	SD250	SD350	SD400	SD500
1/50	12240 m²	28800 m²	59760 m²	111960 m²
1/100	8640 m²	20160 m²	43200 m²	79200 m²
1/200	6120 m²	14400 m²	30240 m²	54000 m²
1/300	5040 m²	11520 m²	24480 m²	43200 m²
1/400	4320 m²	10080 m²	20880 m²	40320 m²
1/500	3960 m²	9360 m²	19080 m²	36000 m²
1/1000	2736 m²	6480 m²	13320 m²	24480 m²

These charts have been designed using a rainfall intensity of 50mm / hour.

If a different figure is required please contact our technical sales team for information.

As a function of its size STORMDRAIN can be laid level.

To use the table on the right the downstream outlet must have a free discharge.

For further information please contact our technical sales team.

STORMDRAIN Laid Level

Channel Run	SD250	SD350	SD400	SD500
30 lin metre	3024 m²	7848 m²	19008 m²	42264 m²
50 lin metre	2520 m²	6552 m²	16416 m²	37008 m²
100 lin metre	1872 m²	5040 m²	12960 m²	29880 m²
125 lin metre	1728 m²	4680 m²	12024 m²	27864 m²
150 lin metre	1656 m²	4464 m²	11160 m²	26064 m²
175 lin metre	1512 m²	4104 m²	10584 m²	24624 m²
200 lin metre	1440 m²	3888 m²	10008 m²	23400 m²

DESIGN CHARTS

STORMDRAIN Laid to Gradient

Gradient	SD250	SD350	SD400	SD500
1/50	170 l/sec	400 l/sec	830 l/sec	1555 l/sec
1/100	120 l/sec	280 l/sec	600 l/sec	1100 l/sec
1/200	85 l/sec	200 l/sec	420 l/sec	750 l/sec
1/300	70 l/sec	160 l/sec	340 l/sec	600 l/sec
1/400	60 l/sec	140 l/sec	290 l/sec	560 l/sec
1/500	55 l/sec	130 l/sec	265 l/sec	500 l/sec
1/1000	38 l/sec	90 l/sec	185 l/sec	340 l/sec

To calculate channel size required at the downstream outlet.

Multiply the maximum drained area (A) by the rainfall intensity (I) and divide by the number of seconds in an hour (3600) therefore A*I/3600 =V. V= velocity in litre/sec.

As a function of its size STORMDRAIN can be laid level.

To use the table on the right the downstream outlet must have a free discharge.

For further information please contact our technical sales team.

STORMDRAIN Laid Level

Channel Run	SD250	SD350	SD400	SD500
30 lin metre	42 l/sec	109 l/sec	264 l/sec	587 l/sec
50 lin metre	35 l/sec	91 l/sec	228 l/sec	514 l/sec
100 lin metre	26 l/sec	70 l/sec	180 l/sec	415 l/sec
125 lin metre	24 l/sec	65 l/sec	167 l/sec	387 l/sec
150 lin metre	23 l/sec	62 l/sec	155 l/sec	362 l/sec
175 lin metre	21 l/sec	57 l/sec	147 l/sec	342 l/sec
200 lin metre	20 l/sec	54 l/sec	139 l/sec	325 l/sec

CONTACT DETAILS

BCM GRC Ltd
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