



DESIGNER DRAINAGE SOLUTION

**EST. 2010**

**MADE TO DRAIN!**

# PRODUCT MANUAL

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# EXPAND-A-DRAIN<sup>®</sup>

DESIGNER DRAINAGE SOLUTION

GUARANTEED 100% 304 & 316 STAINLESS STEEL



*With*  
**"BOX-TRAP"**  
Technology



# TRIED AND TESTED!

## SHOWER CHANNEL COVER DESIGNS



Solid Cover



Tile Insert  
Cover



Linear Cover

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# *Technical Manual*

*Standard shower channel and custom manufactured products*

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## Standard Shower Channel

### Specification Order Code:

SCH (Length of Channel) S/S (Solid) or  
SCH (Length of Channel) T (Tile) or  
SCH (Length of Channel) PF (Perforated)

Standard channel lengths:

300mm / 485mm / 600mm / 685mm / 785mm  
885mm / 985mm / 1085mm / 1185mm

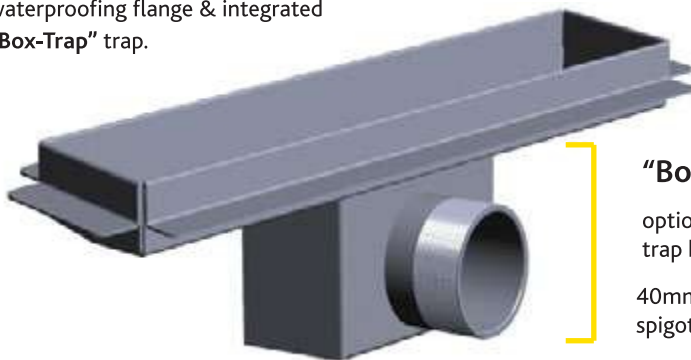


stainless steel solid cover grid  
with grommet openings



removable hair filter with  
underpart neoprene seal  
& plunger

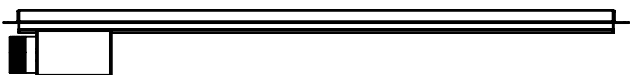
stainless steel channel body with complete  
waterproofing flange & integrated  
"Box-Trap" trap.



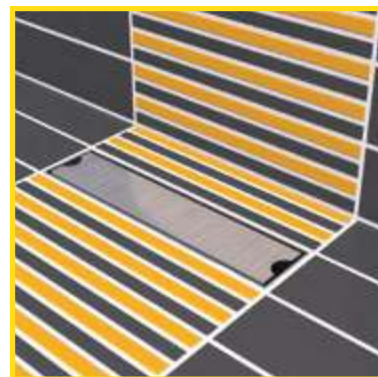
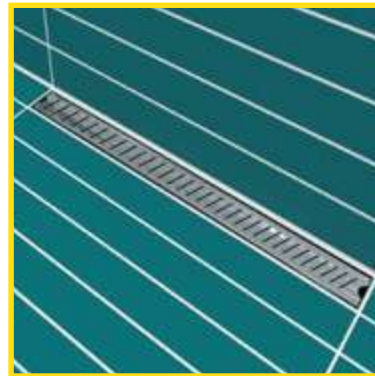
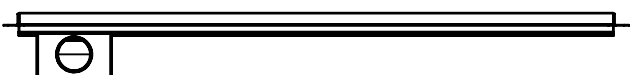
### "Box-Trap"

optional 60mm or 80mm  
trap height

40mm to 50mm threaded  
spigot diameter



Optional: "Box-Trap" position at Channel end / side



### COVER OPTIONS

solid  
cover



tile insert  
cover



linear  
perforated  
cover



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## Tile Inlay Channel

### Specification Code :

SCH (Length of Channel) S/S (Solid) or  
 SCH (Length of Channel) T (Tile) or  
 SCH (Length of Channel) PF (Perforated)

Standard channel lengths:

300mm / 485mm / 600mm / 685mm / 785mm  
 885mm / 985mm / 1085mm / 1185mm

tile - cut to size, inserted to  
 match floor tiles

inner depth of channel : 18mm  
 - adjust slurry mix to accomodate  
 height of tile

stainless steel tile insert  
 cover grid with  
 grommet openings

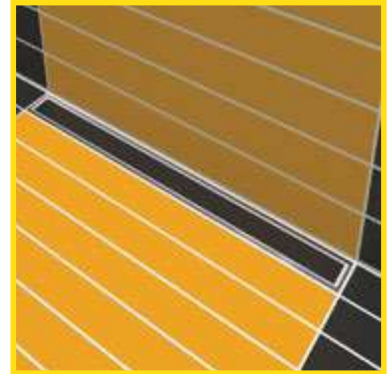
removable hair filter  
 with underpart  
 neoprene seal &  
 plunger

stainless steel channel body with complete  
 waterproofing flange & integrated  
 "Box-Trap" trap.

### "Box-Trap"

optional 60mm or 80mm  
 trap height

40mm to 50mm threaded  
 spigot diameter



### COVER OPTIONS

solid  
 cover



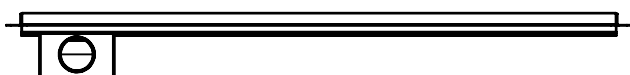
tile insert  
 cover



linear  
 perforated  
 cover



Optional: "Box-Trap" position at Channel end / side



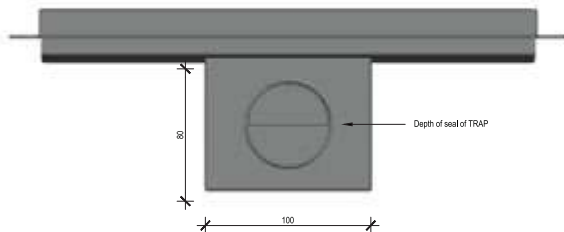
**MADE to DRAIN!**



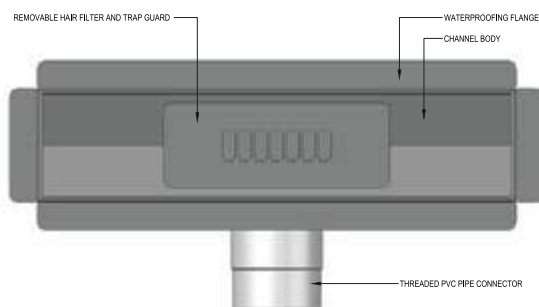


## Standard Technical Components

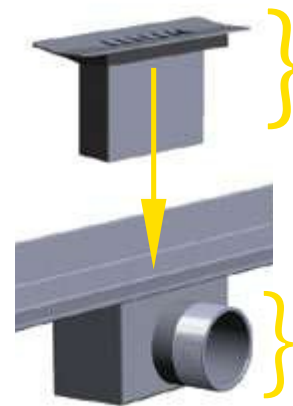
**FRONT ELEVATION**



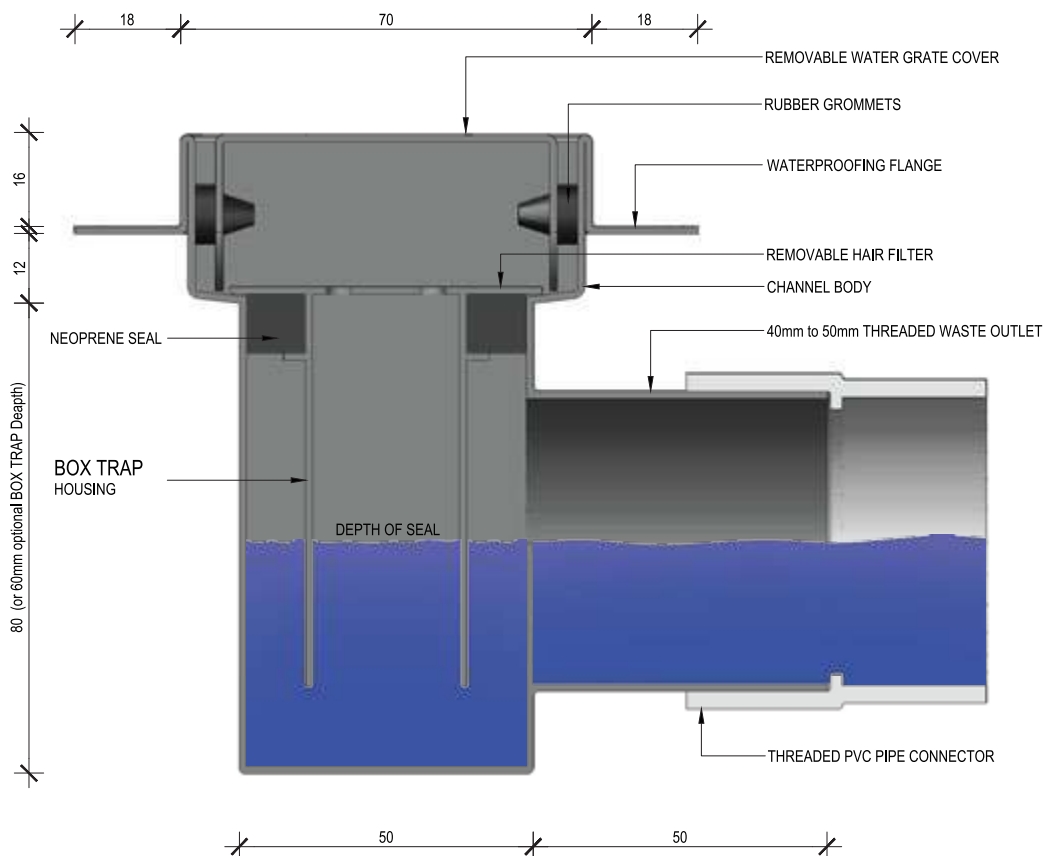
**PLAN VIEW - SHOWING CHANNEL BODY**



**UNIQUE BOX-TRAP SYSTEM  
(REPLACING "P TRAP")**



TRAP created when  
"Hair-Filter Seal"  
is correctly  
inserted into  
the Trap Housing



**COMPLETE CHANNEL DRAIN  
SECTIONAL DRAWING**

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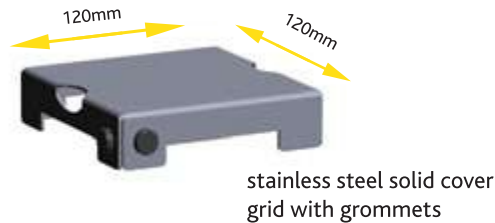


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## 120mm Floor Drain (Horizontal or Corner 45° outlet)

Specification Order Code Horizontal: SCH120mm(M) / SS or T or PF; Corner 45°: SCH120mm(C) / SS or T or PF

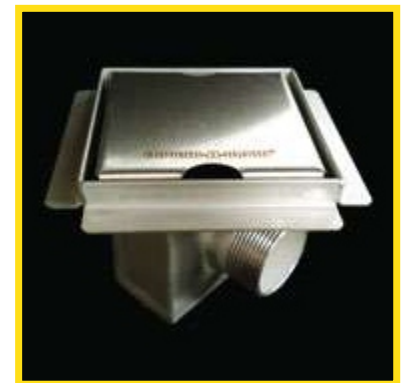
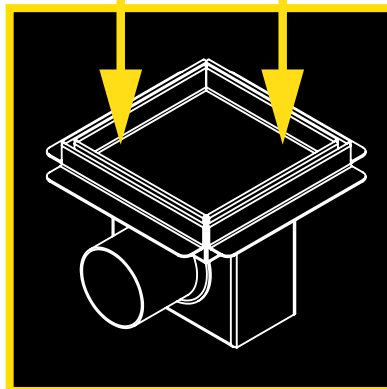


BOX TRAP Components



stainless steel 120mm floor drain body & integrated "Box-Trap"

Tile inlay option

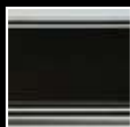


### COVER OPTIONS

solid cover



tile insert cover



x-style perforated cover



### COVER OPTIONS

solid cover



tile insert cover



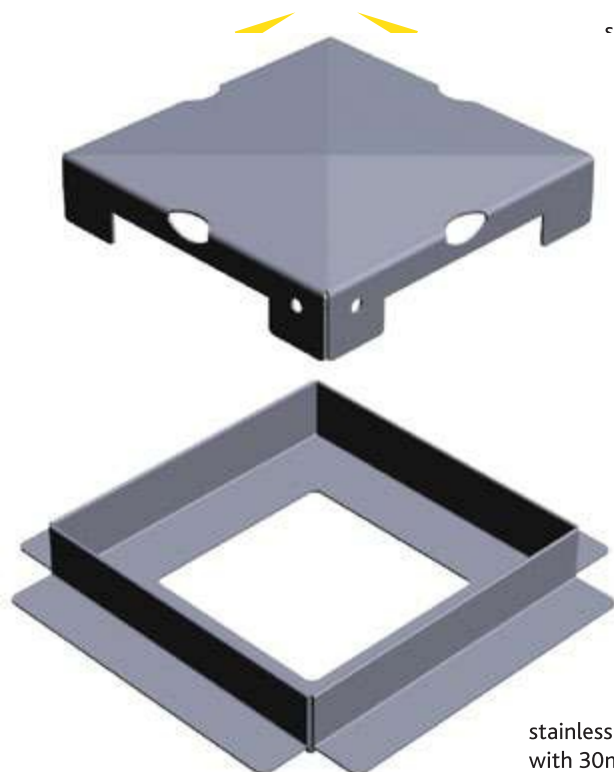
x-style perforated cover



## 200mm X 200mm Floor / Patio Drain Cover with base framework - designed to fit over full-bore dome

Specification Order Code :

SCH200mm - P-110out / SS - (apex or flat) or T or PF

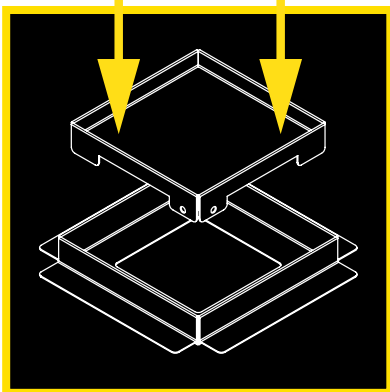


stainless steel apex solid cover grid  
options :  
flat cover grid with or  
without anti-vandal feature  
perforated design on spec

20mm Height by  
35mm width waterproofing  
flange

stainless steel base framework  
with 30mm water-proofing flange,  
designed to fit over full-bore dome

Tile inlay option



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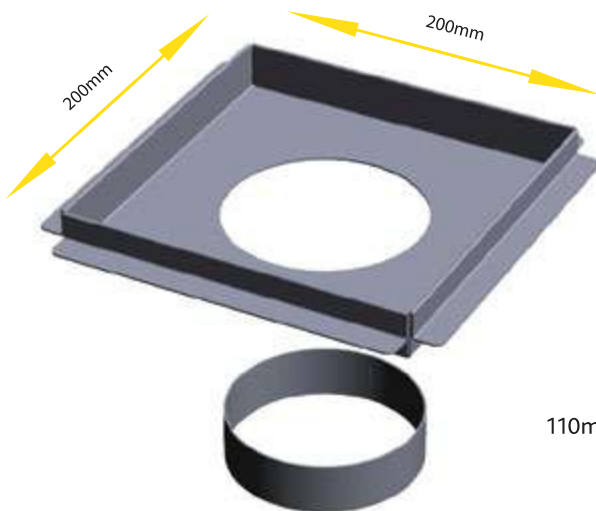
## 200mm X 200mm Floor / Patio Drain Cover with 110mm or 75mm vertical outlet

Specification Order Code :

SCH200mm - P-110out / SS - (apex or flat) or T or PF



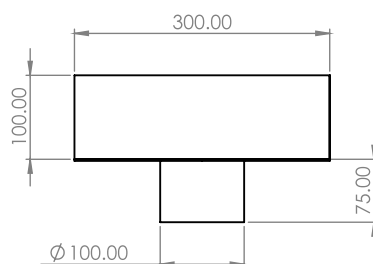
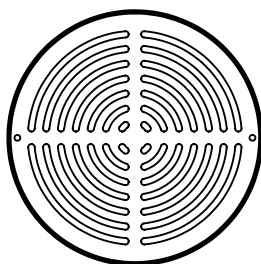
stainless steel flat solid cover grid  
Options :  
- flat cover grid and / or  
anti-vandal feature  
- perforated design on spec



110mm outlet pipe



## Custom Specified Diameter Circular Floor / Patio Drain



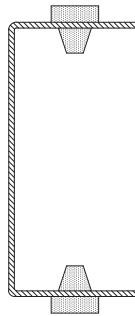
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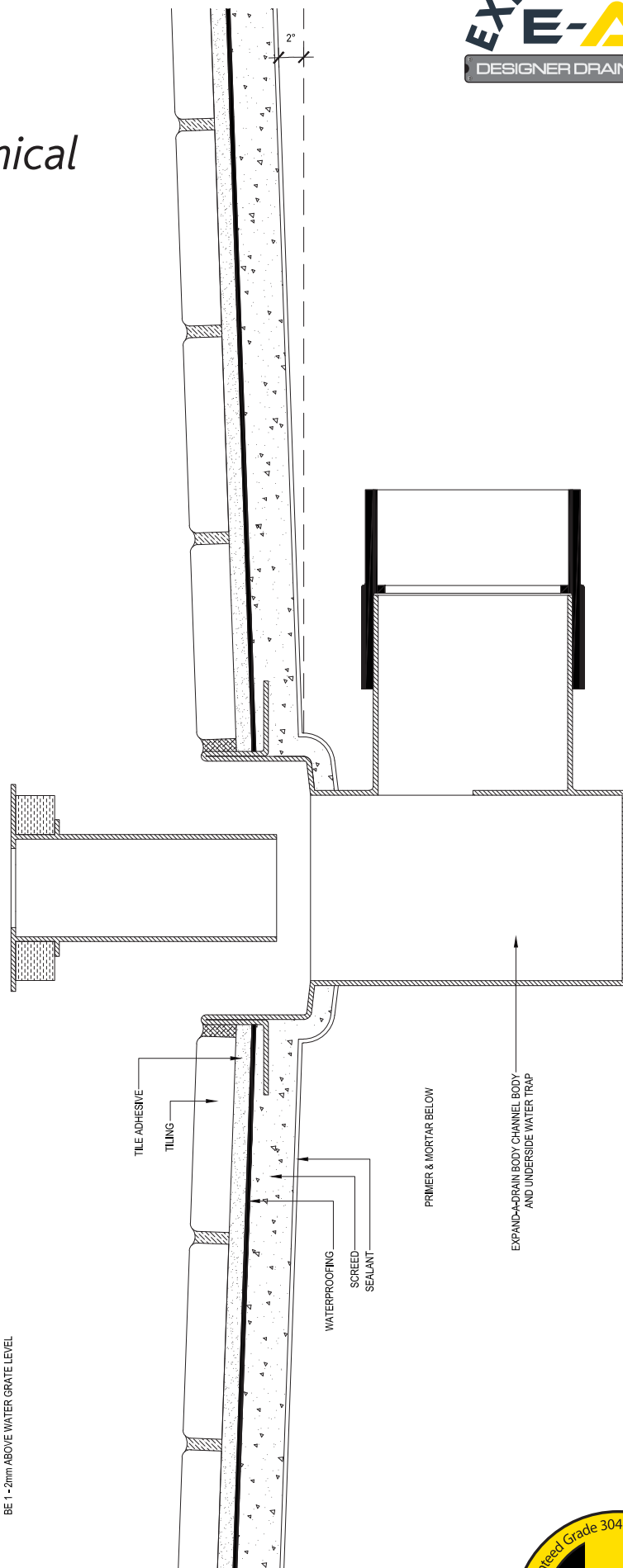
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# Installation Technical Drawing



**INSTALLATION:**  
GRADIENT SUGGESTED AT MAXIMUM TWO DEGREES TO  
ALLOW FOR AMPLE WATERFLOW. TILING DETAIL TO EDGE  
OF WATER CHANNEL CASING. TILING TOP LEVEL SHOULD  
BE 1 - 2mm ABOVE WATER GRATE LEVEL



**SECTION INDICATING CORRECT INSTALLATION**  
SCALE 1:1

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## *Installation Instructions WET SERVICES*

THE OFFTAKE CAPACITY OF THIS PRODUCT RELIES ON A CLEAR WASTE PIPE SYSTEM DESIGN

1. A suitable ground recess of approximately 25mm is required before channel installation begins. The integrated stainless steel trap is 80mm in height with a 100mm x 50mm base, the mid section of slab (should concrete apply) should therefore be 'cored' before installation. (An engineer should be consulted with before any such 'core-drill!!)
2. Once the channel has been positioned into the 'recess' and supported with the channel stabilisers (under), the channel surface should be 'spirit' levelled to establish the required parallel position before mortar fill! (Channel surface must be parallel to ground level).
3. A suitable water-proofing membrane (paint-on or 'torch' on) should be applied onto the flange around the channel body. Failure on the contractor's behalf to apply this membrane could lead to leakage around the drain and rising damp on lower and upper floor levels. (Choice of membrane product lies with the contractor's preferred brand)
4. The 50mm Stainless Steel threaded spigot is fitted at its end with a white PVC threaded CONNECTOR, this Marley connector is SABS approved.  
**Plumber's tape must be applied to threaded spigot to guarantee watertight connection.**
5. The standard channel - body perimeter height is practical for tiling and concrete finishes. Should tiling exceed the body height, then the tiles adjoining the channel edge should be 'bull-nosed' before installation.

NB: SLOPE of finished FLOOR LEVEL at 2mm ( 2 degrees) should fall towards the drain channel as this will avoid 'leakage' from the shower and avoid 'pooling' on the floor.

6. The sealed hair filter which is positioned under the cover grid, should be kept clear of loose mortar and grout during installation. Hence the black sticker cover guard which is removed before contractor's first -flush, ensure the hair filter is re-sealed if removed!
7. A 'scotch-guard' sponge & water only can be used to clean-off any residue build-up in or on the drain surfaces, no chemical household cleaners are required!



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## Technical Specifications

|                    |                                                                                                                                                                                                                                                                                                                                                               |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MATERIAL :         | Grade 304 stainless-steel                                                                                                                                                                                                                                                                                                                                     |
| FINISHES :         | Brushed (grid & b2 (body)                                                                                                                                                                                                                                                                                                                                     |
| FEATURES :         | Integrated water-proofing flange and anti-odour trap. Compact trap casing for multiple level installations<br>Universal Floor Drain with removable grease trap basket                                                                                                                                                                                         |
| DESIGN :           | Dutch over-bend features provide a neat visible surface finish                                                                                                                                                                                                                                                                                                |
| "BOX-TRAP":        | All products are manufactured with our unique "Box-Trap" - anti-odour trap                                                                                                                                                                                                                                                                                    |
| SPECIAL FEATURES : | <ul style="list-style-type: none"> <li>- The 'SOLID' cover grids are a practical proprietary design feature</li> <li>- Avoids hair clogging on their surfaces</li> <li>- Waste water is channelled out via side slots</li> <li>- The 'SOLID' cover grid integrates with any tile pattern design</li> <li>- Conceals the outlet and drained wastes.</li> </ul> |
| LENGTHS :          | CHANNELS: -300mm / 485mm / 685mm / 785mm / 885mm / 985mm<br>1085mm / 1185mm<br>FLOOR DRAINS:- 120mm x 120mm and 200mm x 200mm                                                                                                                                                                                                                                 |
| WIDTHS :           | Interior shower channels @ 70mm widths                                                                                                                                                                                                                                                                                                                        |
| HEIGHTS :          | Channel height @ 25mm, Trap height @ 60mm or 80mm                                                                                                                                                                                                                                                                                                             |
| INLET :            | Seven singular slot openings                                                                                                                                                                                                                                                                                                                                  |
| OUTLET :           | 50MM (shower); external outlets of 50mm / 75mm / 110mm (vertical or horizontal)                                                                                                                                                                                                                                                                               |
| FLOW RATE :        | 32 to 42 LITRES/MIN (internal); 60 to 75 LITRES/MIN (external)                                                                                                                                                                                                                                                                                                |
| LOAD :             | An even load of 750kg can be carried across the channels                                                                                                                                                                                                                                                                                                      |
| OUTLET POSITION :  | Central for shower; position of outlet on custom products can be specified                                                                                                                                                                                                                                                                                    |

### TYPICAL SPECIFICATION :

Length eg. 885mm Expand a Drain with SOLID, TILE or PERFORATED Cover Grid - with integrated under-part trap and perimeter waterproofing flange.  
Grade 304 Stainless Steel (brushed/B2), heat-weld fitted with PVC Marley connector

ORDER CODE :     SCH 885MM Expand a Drain EAD Steel

### SUITABLE APPLICATIONS :

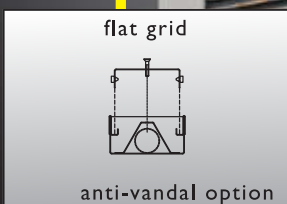
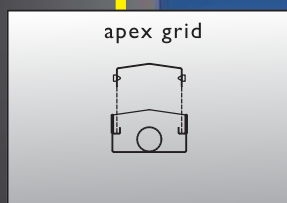
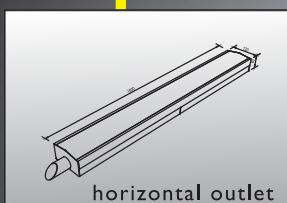
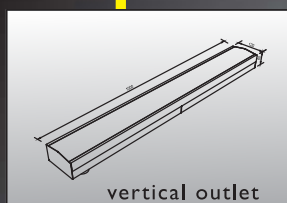
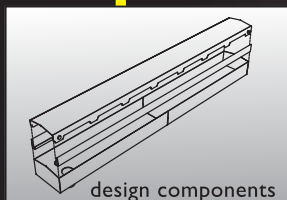
showers (walk-in & standard), residential & hospitality, hospitals, prisons, gymnasiums, schools, exterior showers, entrances and doorways (semi-storm), balconies & pathways



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## Exterior STORM WATER Drainage - Custom Manufactured patios - walkways - entrances



### FEATURES:

- Standard Length - 3000mm x 120mm x 60mm as well as custom specified lengths
- Materials – grade 304 'brushed' stainless steel - Inland (316 - coastal)
- Solid grid cover - conceals outlet and prevents debris build-up in channel
- Optional "Anti-Vandal" grid lock mechanism



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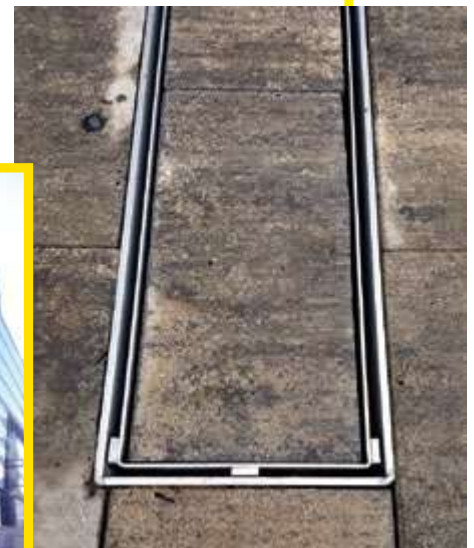
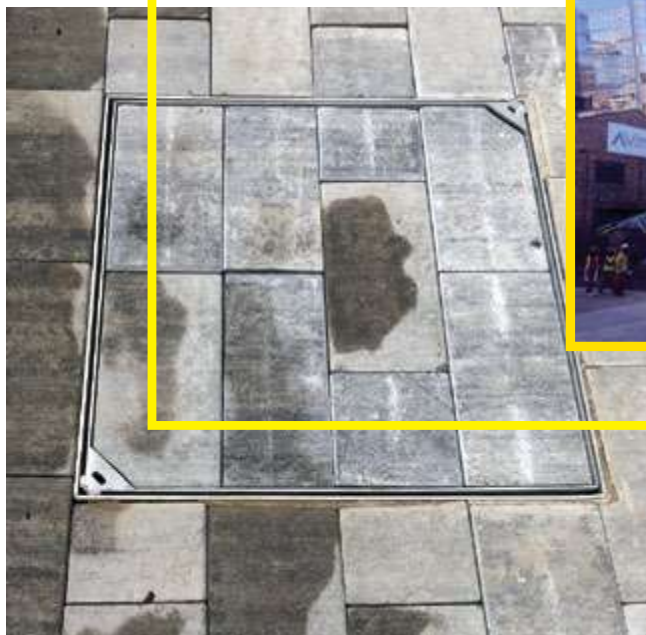




HQ Bedfordview  
 JHB 2017



Sasol Head Quarters  
 Sandton JHB 2016

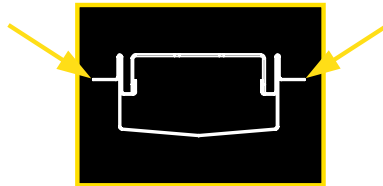


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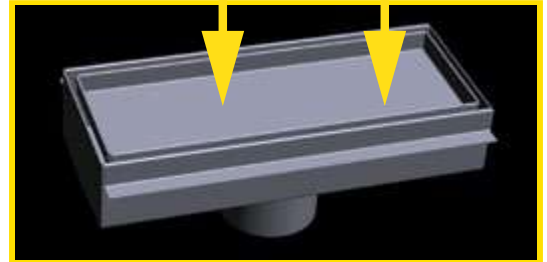
## Solid Line Channel Drainage - Custom Specified Manufactured from Grade 304 / 316 Stainless-Steel



illustration showing  
specified channel with tile  
inlay option and water-  
proofing flange



Tile inlay option



## New SLOT Stormwater Channels - Custom Specified



SLOT Covers can be specified as narrow as 20mm, and can be supplied with or without a perforated cover. The channels can accommodate either a 110mm vertical outlet or a side or front 50mm horizontal outlet.

Manufactured in either a 304 (inland) or a 316 (coastal) stainless steel brushed material.

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## Custom Manufactured Projects Portfolio



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## *Technical Specifications - Storm Water Drainage*

|                   |                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MATERIAL:         | Grade 304 stainless-steel (inland) and Grade 316 stainless steel (coastal)                                                                                                                                                                                                                                                                                                                             |
| FINISHES :        | Brushed stainless steel                                                                                                                                                                                                                                                                                                                                                                                |
| FEATURES:         | Integrated water-proofing flange and anti - odour free trap. Compact trap casing for multiple level installations.                                                                                                                                                                                                                                                                                     |
| DESIGN:           | Dutch over-bend features provide a neat visible surface finish                                                                                                                                                                                                                                                                                                                                         |
| SPECIAL FEATURES: | Option of SOLID, TILE or PERFORATED <ul style="list-style-type: none"> <li>- The 'SOLID' cover grids are a practical proprietary design feature</li> <li>- Avoids hair debris from entering the channel</li> <li>- Waste water is channelled out via side slots</li> <li>- The 'SOLID' cover grid integrates with any tile pattern design</li> <li>- Not a hinderance to pedestrian traffic</li> </ul> |
| LENGTHS:          | The storm-water channel lengths are manufactured to a maximum of 3 meter lengths, multiple lengths are then welded on site in order to create a continual length of channel                                                                                                                                                                                                                            |
| WIDTHS:           | Standard width of 120mm (custom can be specified)                                                                                                                                                                                                                                                                                                                                                      |
| HEIGHTS:          | Standard height of 60mm (custom can be specified)                                                                                                                                                                                                                                                                                                                                                      |
| INLET:            | Inlet diameters range from 50mm to 110mm                                                                                                                                                                                                                                                                                                                                                               |
| OUTLET:           | Outlet diameters range from 50mm to 110mm with either a horizontal or vertical spiggot supplied                                                                                                                                                                                                                                                                                                        |
| FLOW RATE:        | Measured at an approximate 86 litres/minute                                                                                                                                                                                                                                                                                                                                                            |
| LOAD CAPACITY:    | An even load of 1200kg can be carried across the channels                                                                                                                                                                                                                                                                                                                                              |
| OUTLET POSITION:  | The position of outlets are specified before manufacture                                                                                                                                                                                                                                                                                                                                               |
| CONNECTIVITY:     | PVC welded connectors or direct into the full-bore outlet/s                                                                                                                                                                                                                                                                                                                                            |

### SUITABLE APPLICATIONS:

- Any position where direct storm-water drainage solutions are required
- Interior multiple drainage solutions - Gym Showers, Corridors etc

S



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