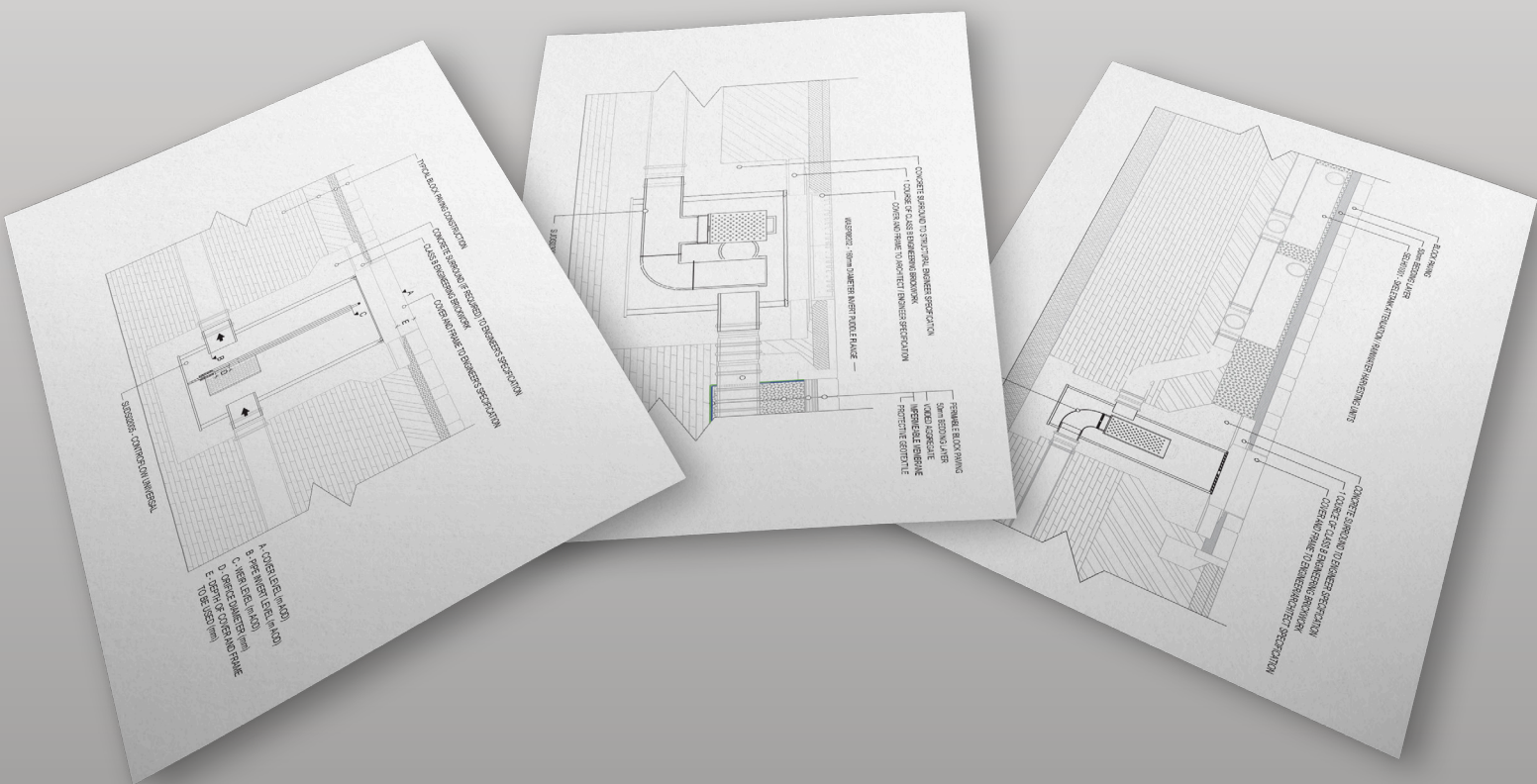


Product Specifications & Details



Contents:

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SUDS01001	Controflow Micro	3
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SUDS08001	Controflow SuDS Basket	17

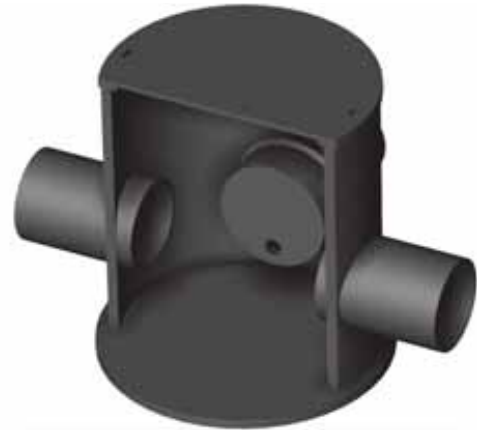
Controflow Product Selector:

	Application	Product Code	Description	Comments
Flow Control Chambers	Permeable Pavement Level Invert	SUDS01001	Controflow Micro	For shallow applications only, max 600mm cover to invert
		SUDS02005	Controflow Universal	Max depth 1.2m
	Permeable Pavement Stepped Invert	SUDS02008	Controflow Housing	Typically Housing, 110mm Ø pipe connections
		SUDS03001	Controflow Commercial	Typically Commercial, 160mm Ø pipe connections
	Swale	SUDS02005	Controflow Universal	Max depth 1.2m
	Skeletank On-Plot Attenuation Tanks	SUDS01101	Controflow Domestic	Prescribed flow rate of 0.2 l/s
	Plastic Crate On-Plot Attenuation Tanks	SUDS01101	Controflow Domestic	If overall depth of tank < 900mm, prescribed flow rate of 0.2 l/s
		SUDS02005	Controflow Universal	Max depth 1.2m
	General Drainage / Site Outfall	SUDS02005	Controflow Universal	Max depth 1.2m

Swale	Swale Inlet / Outlet	SUDS08001	Stainless Steel Mesh Basket and Pipe Guard
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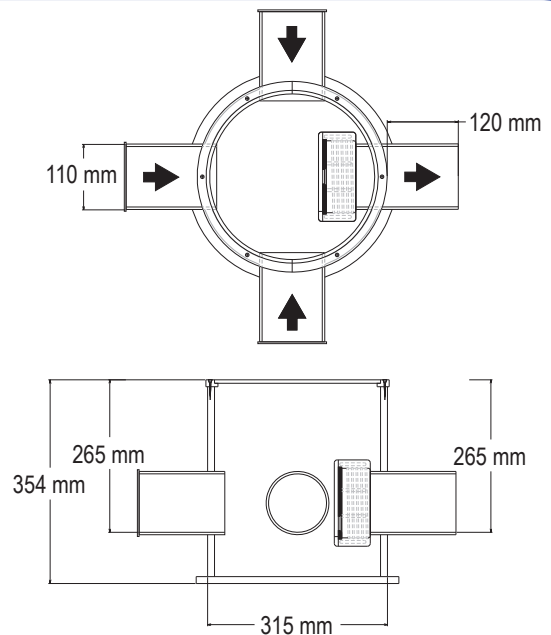
Description

A shallow flow control chamber with a removable, un-guarded circular orifice (to specified diameter), designed to manage pre-filtered outflows from permeable paving or other open graded sub-base constructions. Its small size and low cost make it ideal for check dams between permeable paving compartments. The removable cap locks in position with the orifice at invert level. The chamber is suitable for a maximum depth of 600mm from finished ground level, to the orifice plate and is supplied with three 110mm diameter inlet pipe connection stubs to offer a flexible layout. Supplied with a temporary protective site cover (permanent cover and frame not included).



Packaging Details

Element	Value	Unit
Packaging unit dimension	557 x 356 x 356 (LxWxD)	mm
Packaging unit weight	TBC	kg
Number of units per pallet	20	nr
Pallet dimensions	1200 x 1200 x 150 (LxWxD)	mm
Pallet weight	TBC	kg



Specification

Element	Value	Unit
Overall width	555	mm
Overall depth	354	mm
Depth to invert	265	mm
Number of spigots	3-IN/1-OUT	nr
Spigot O.D ø	110	mm
Orifice type	Removable screw cap	
Unit weight	TBC	kg
Material	HDPE	

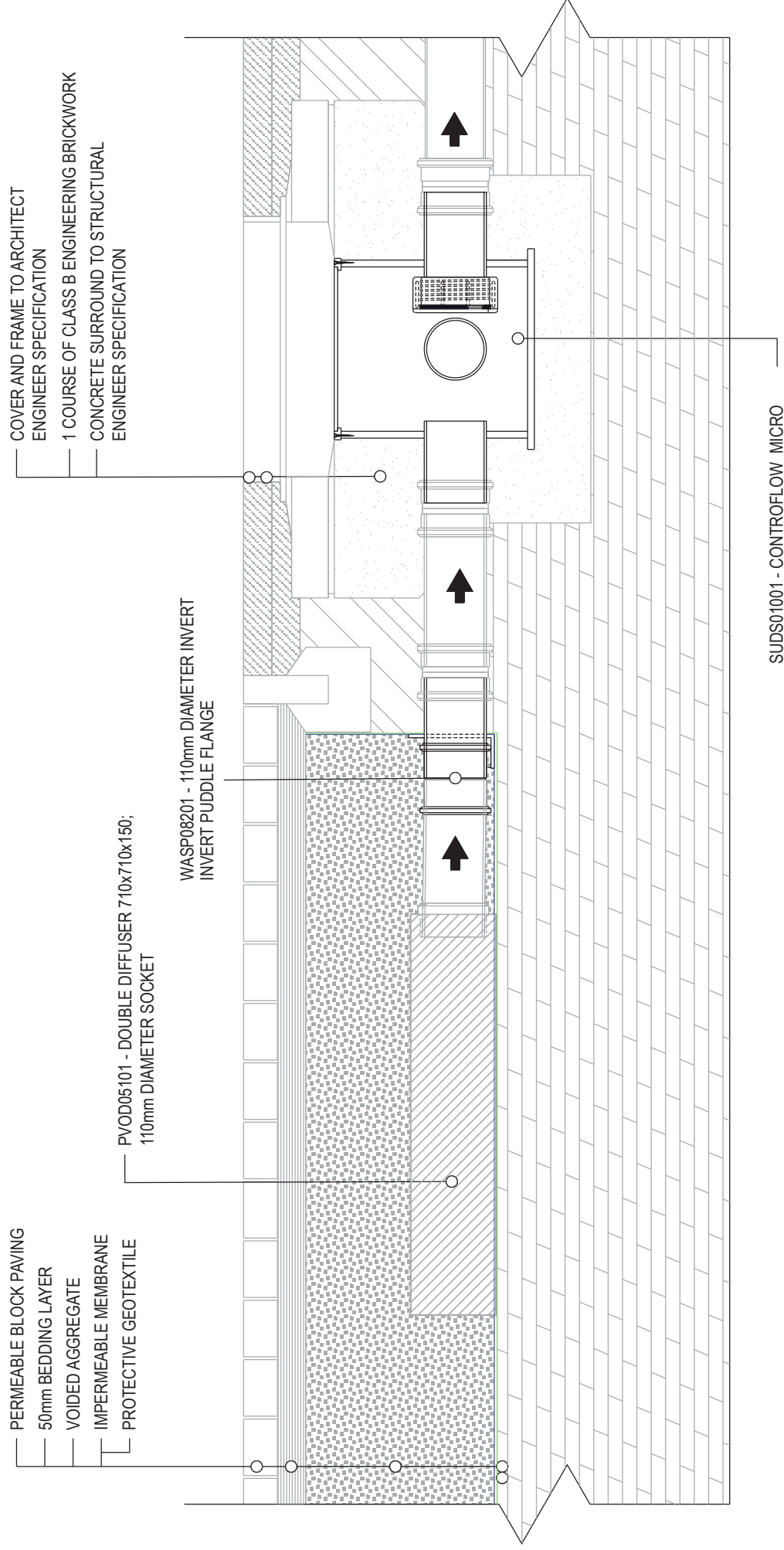
Designed for permeable paving

Suitable for shallow construction

Ideal for check dams

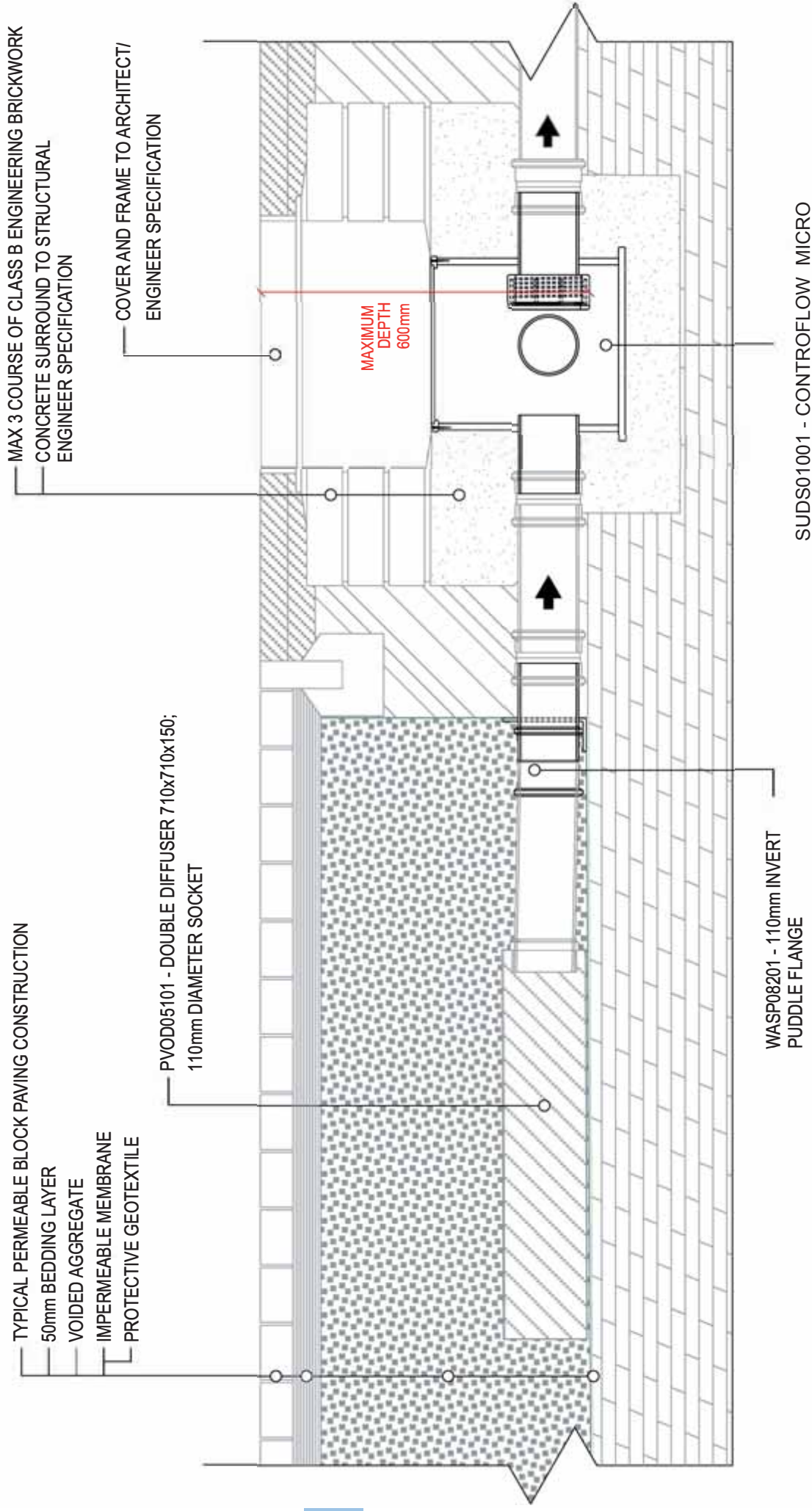
Controflow Micro - Level Invert General Application

SUDS01001



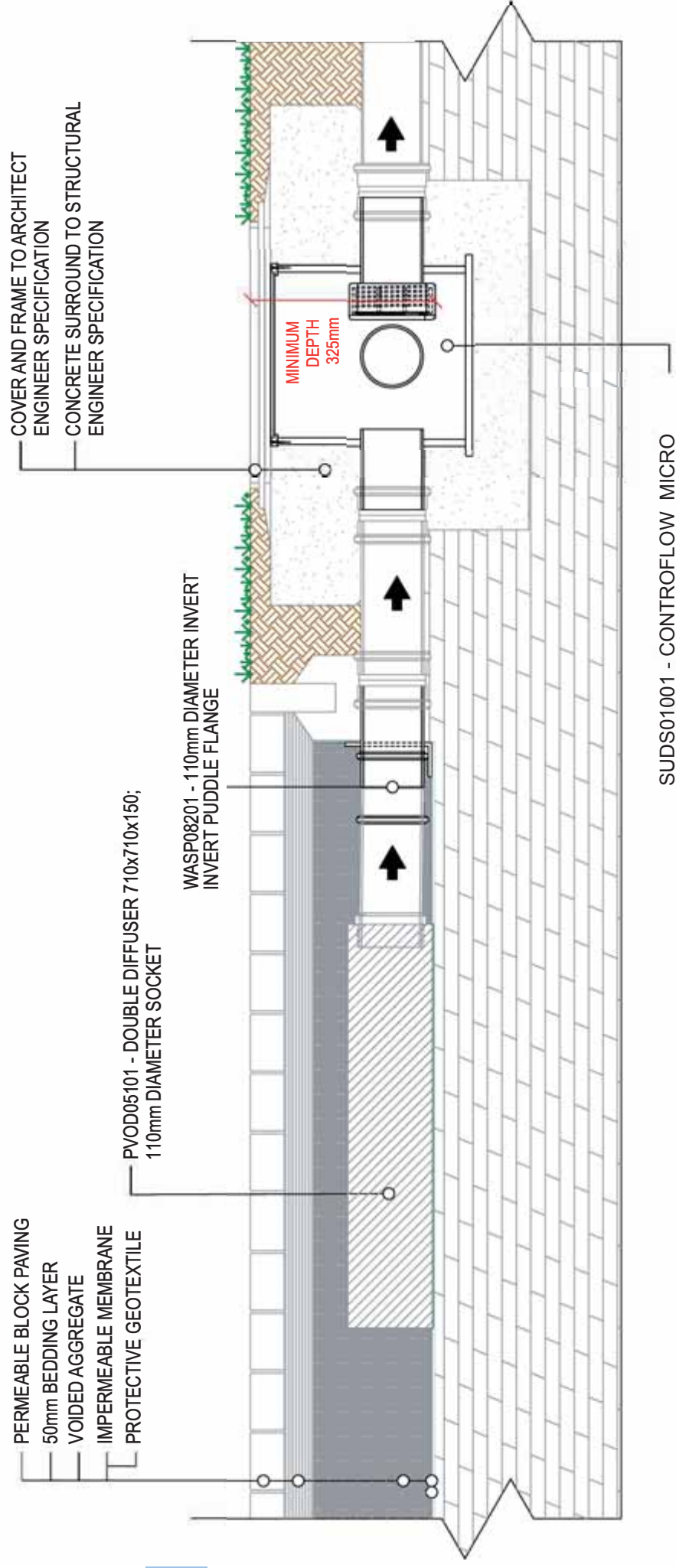
Controflow Micro - Level Invert Maximum Depth Application

SUDS01001



Controflow Micro - Level Invert Minimum Depth Application

SUDS01001



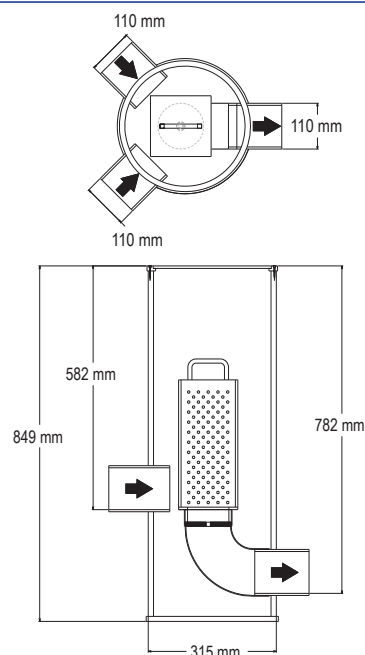
Description

The Controflow Domestic is specifically designed for attenuation on housing developments. The standard 11mm diameter orifice, protected by a removable filter, allows for surface water runoff to be restricted to a flow rate of 0.2 l/s, preferably within the curtilage of each plot to suit the site layout. The chamber is complete with two standard 110mm diameter inlet spigots, and a 200mm sump to accommodate the deposition of any suspended solids. Chambers are supplied with a temporary protective site cover (permanent cover and frame not included).



Packaging Details

Element	Value	Unit
Packaging unit dimension	440 x 852 (WxD)	mm
Packaging unit weight	TBC	kg
Number of units per pallet	TBC	nr
Pallet dimensions	1200 x 1200 x 150 (LxWxD)	mm
Pallet weight	TBC	kg



Specification

Element	Value	Unit
Overall width	436	mm
Overall depth	847	mm
Sump depth	200	mm
Depth to invert of inlet	582	mm
Depth to invert of outlet	782	mm
Inlet Spigot O.D ø	110	mm
Outlet Spigot O.D ø	110	mm
Maximum flow rate	0.2	l/s
Unit weight	TBC	kg
Material	HDPE	

Designed for housing developments

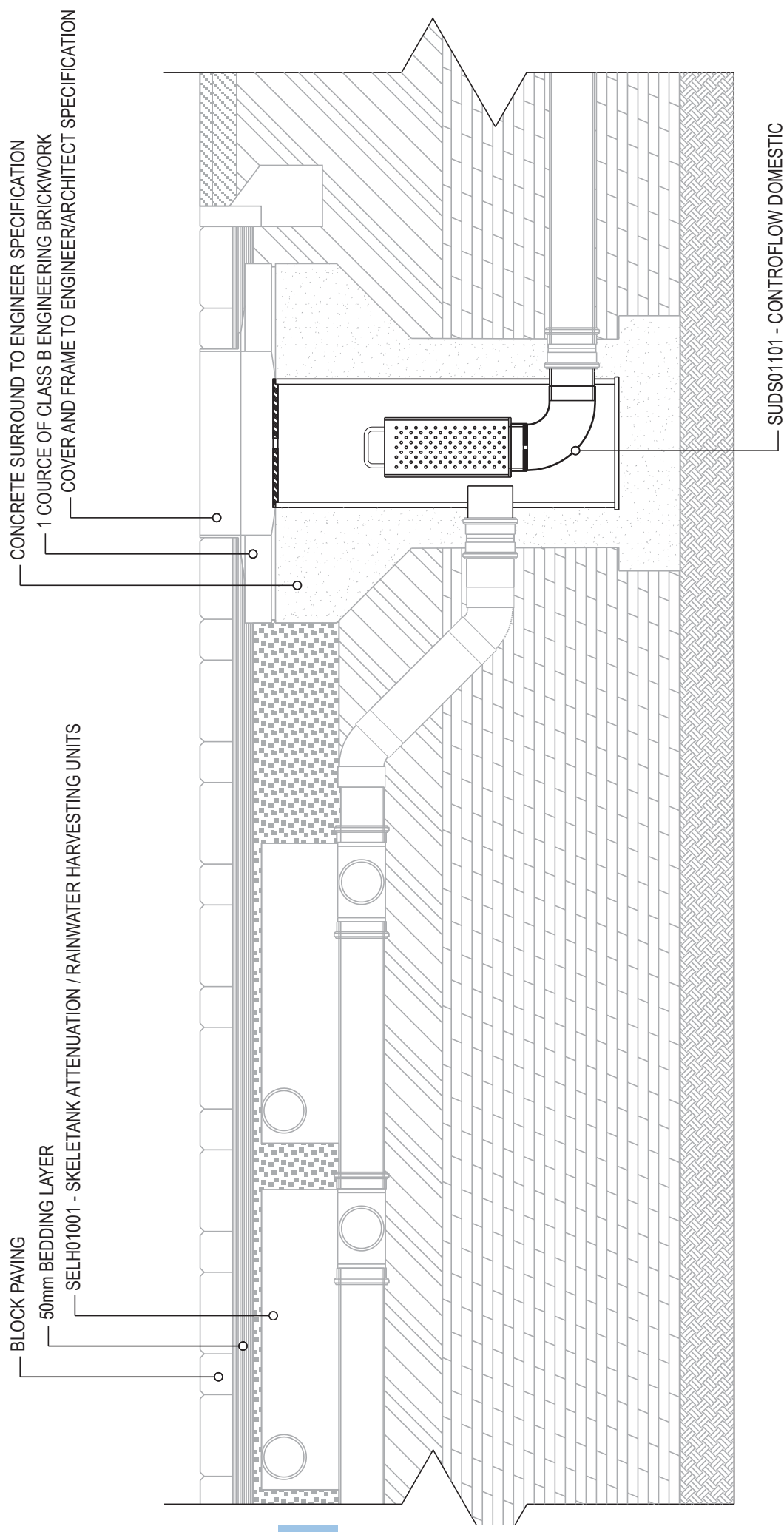
Protected orifice

0.2 l/s restricted flow rate

Controflow Domestic - Stepped Invert Protected Orifice

General Application - Controlling Outlet Flows from Shallow Rainwater Harvesting Tanks

SUDS01101



Description

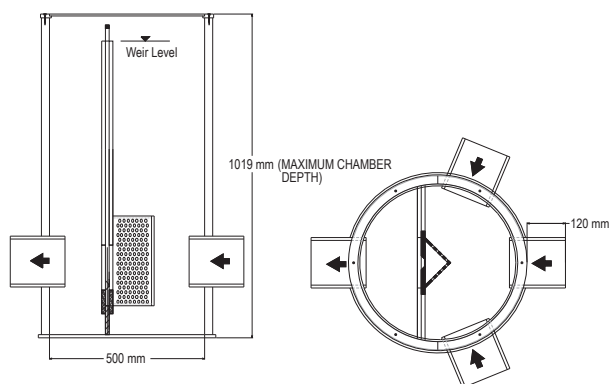
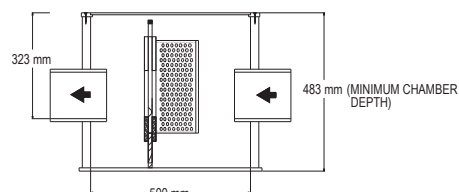
A flexible universal flow control chamber, with level inverts, suitable for any SuDS technique. The slide-out centre plate acts as an overflow weir and contains a circular orifice (to specified diameter), protected by an upstream filter guard. The slide-out centre plate can be temporarily removed to gain access to rod the connections, during regular maintenance services. The Controflow 500 Series Universal Level Invert is available with either 160mm or 110mm diameter connection stubs which offer a flexible layout and is available in depths ranging from 483mm to 925mm. An optional foul air trap is available when connected to the combined sewer. Chambers are supplied with a temporary protective site cover (permanent cover and frame available upon request).



Packaging Details

Element	Value	Unit
Packaging unit dimension	773 x 773 x 1032 (LxWxD)	mm
Packaging unit weight	TBC	kg
Number of units per pallet	8	nr
Pallet dimensions	1200 x 1200 x 150 (LxWxD)	mm
Pallet weight	TBC	kg

*packaging dimensions based on maximum chamber depth



Specification

Element	Value	Unit
Maximum depth of chamber	1019	mm
Minimum depth of chamber	483	mm
Overall width	753	mm
Spigot O.D. ∅	160 or 110	mm
Orifice type	Fixed plate	
Unit weight	TBC	kg
Material	HDPE	

Information Check List

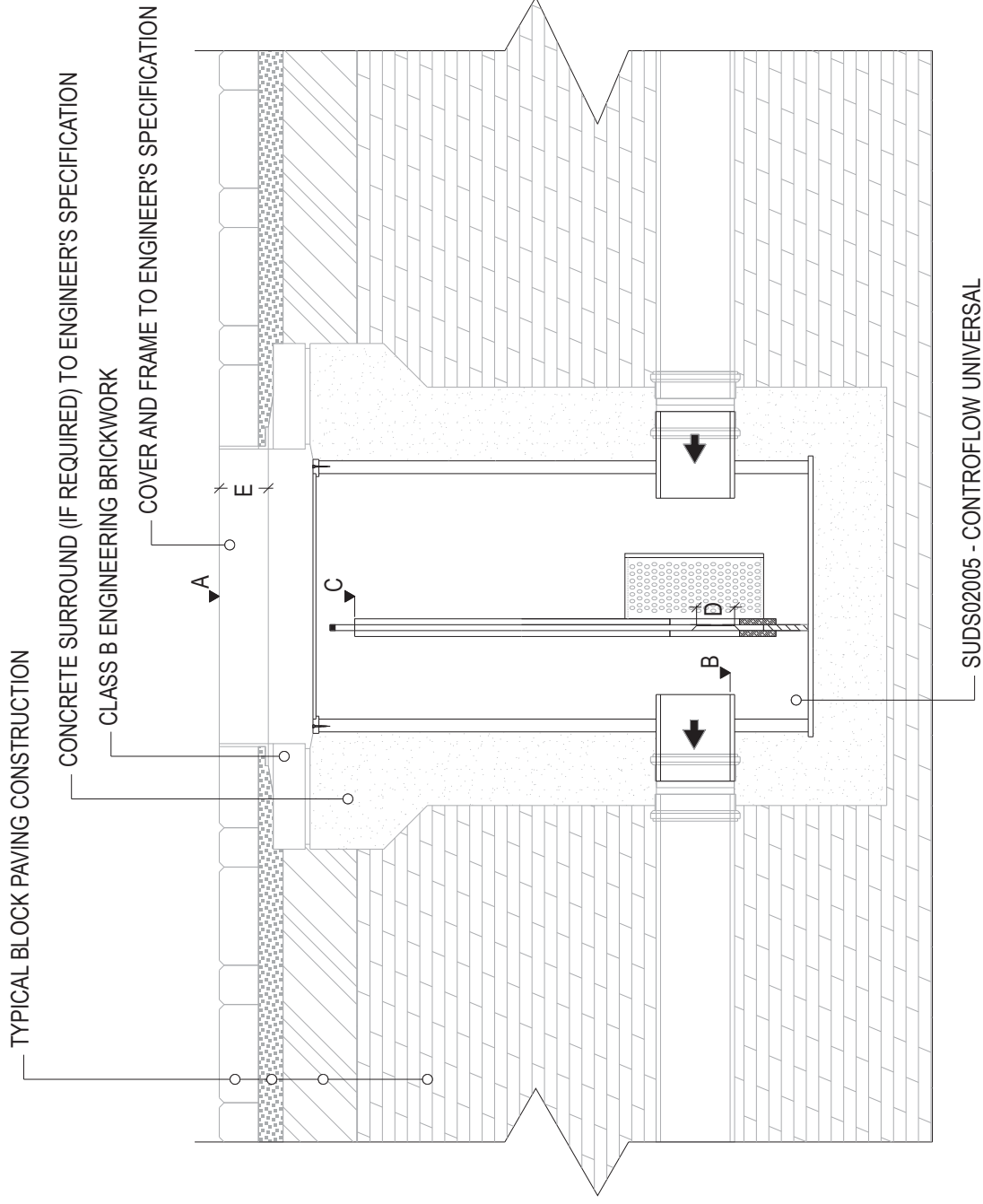
(required prior to order being processed)

Element	Value	Unit
Cover level		m (A.O.D)
Pipe invert level		m (A.O.D)
Weir Level		m (A.O.D)
Orifice diameter		mm
Depth of cover and frame to be used		mm
Spigot Diameter		mm
Number of inlet spigots		nr.

A.O.D - Above Ordinance Datum

Controflow Universal - Level Invert Protected Orifice General Application

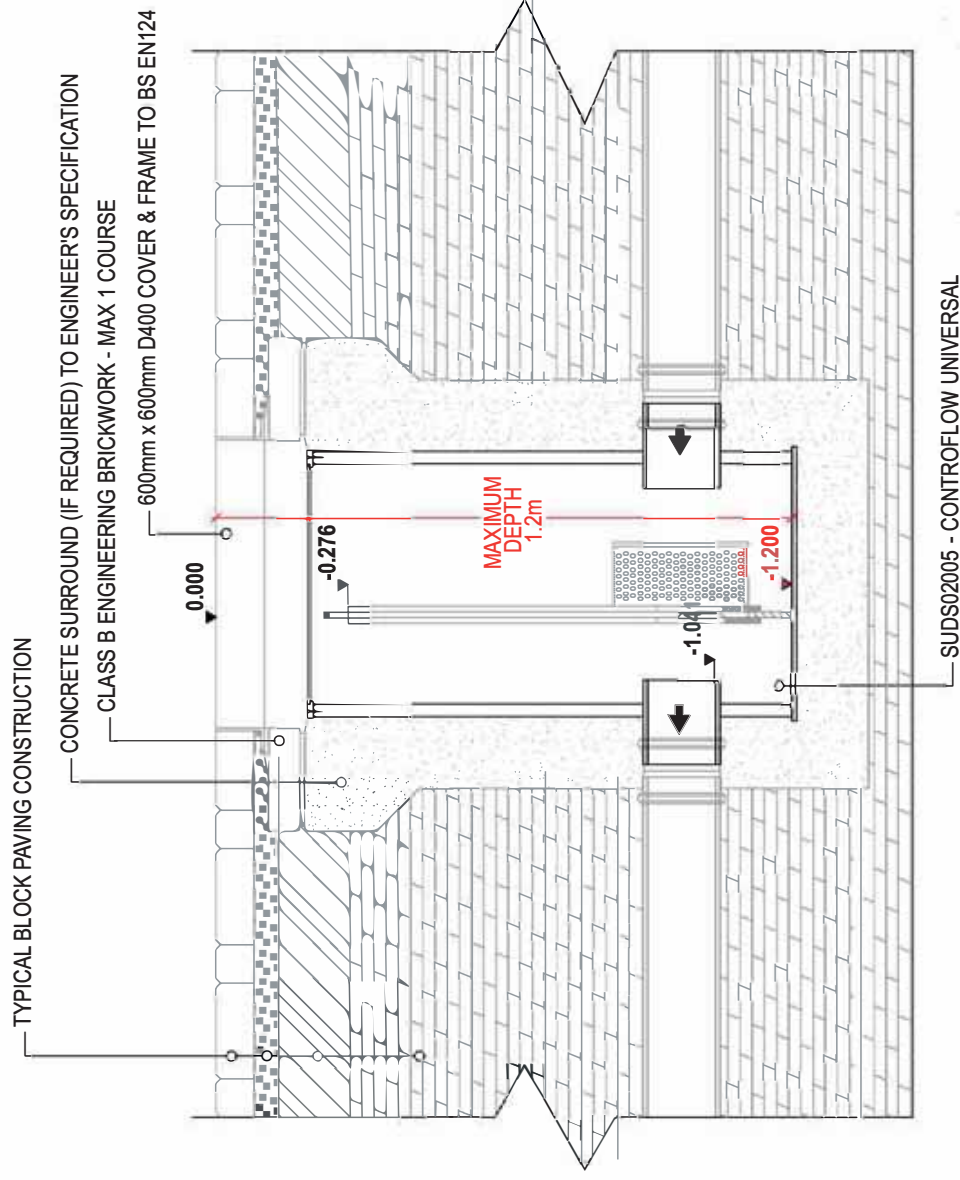
SUDS02005



- A - COVER LEVEL (m AOD)
- B - PIPE INVERT LEVEL (m AOD)
- C - WEIR LEVEL (m AOD)
- D - ORIFICE DIAMETER (mm)
- E - DEPTH OF COVER AND FRAME TO BE USED (mm)

Controflow Universal - Level Invert Protected Orifice Maximum Depth Application

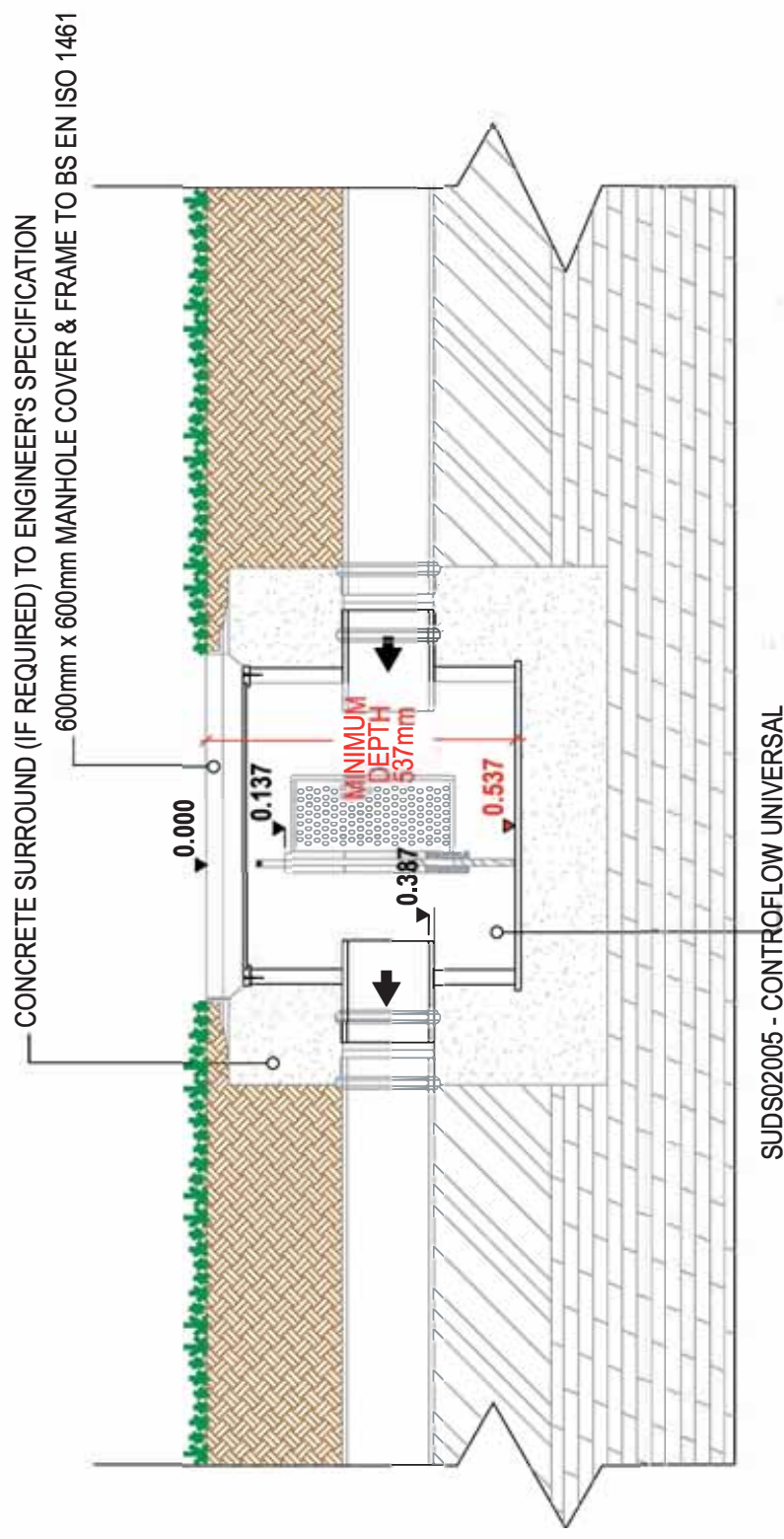
SUDS02005



NOTE: IN ACCORDANCE WITH BUILDING REGULATIONS H1, CLEARANCE OF BLOCKAGES, TABLE 11. SHOULD THE DEPTH OF THE CHAMBER FROM INVERT LEVEL, TO THE TOP OF THE SPECIFIED COVER EXCEED 1.2 METRES, A RESTRICTED ACCESS COVER NO GREATER THAN 350mm MUST BE USED FOR HEALTH AND SAFETY REASONS TO DETER ENTRY.

Controflow Universal - Level Invert Protected Orifice Minimum Depth Application

SUDS02005



NOTE: IN ACCORDANCE WITH BUILDING REGULATIONS H1, CLEARANCE OF BLOCKAGES, TABLE 11. SHOULD THE DEPTH OF THE CHAMBER FROM INVERT LEVEL, TO THE TOP OF THE SPECIFIED COVER EXCEED 1.2 METRES, A RESTRICTED ACCESS COVER NO GREATER THAN 350mm MUST BE USED FOR HEALTH AND SAFETY REASONS TO DETER ENTRY.

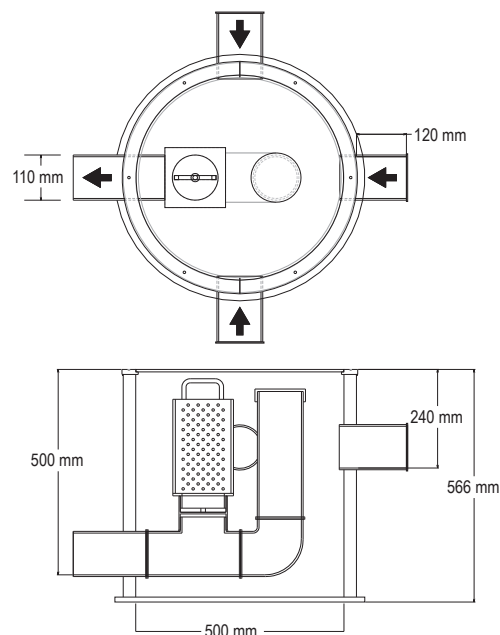
Description

A standard flow control chamber with a single, guarded orifice (to specified diameter), designed to manage outflows from permeable paving or other open graded sub-base construction. Controflow Housing 110mm Diameter Stubs Stepped Invert chambers simplify the construction of transitions from shallow permeable paving to deeper constructions or pipe outfalls. The protective guard and orifice cap are removable, and the rodding access upstand can act as an overflow with its cap removed. Three 110mm diameter inlet pipe connection stubs offer layout flexibility. Supplied with a temporary protective site cover (permanent cover and frame not included).



Packaging Details

Element	Value	Unit
Packaging unit dimension	805 x 568 (WxD)	mm
Packaging unit weight	TBC	kg
Number of units per pallet	6	nr
Pallet dimensions	1200 x 1200 x 150 (LxWxD)	mm
Pallet weight	TBC	kg



Specification

Element	Value	Unit
Overall width	803	mm
Overall depth	566	mm
Number of spigots	3-IN/1-OUT	nr
Inlet spigot $\varnothing$ O.D.	110	mm
Outlet spigot $\varnothing$ O.D.	110	mm
Maximum flow	10	l/s
Minimum flow	0.2	l/s
Unit weight	20	kg
Material	HDPE	

Ideal for permeable paving

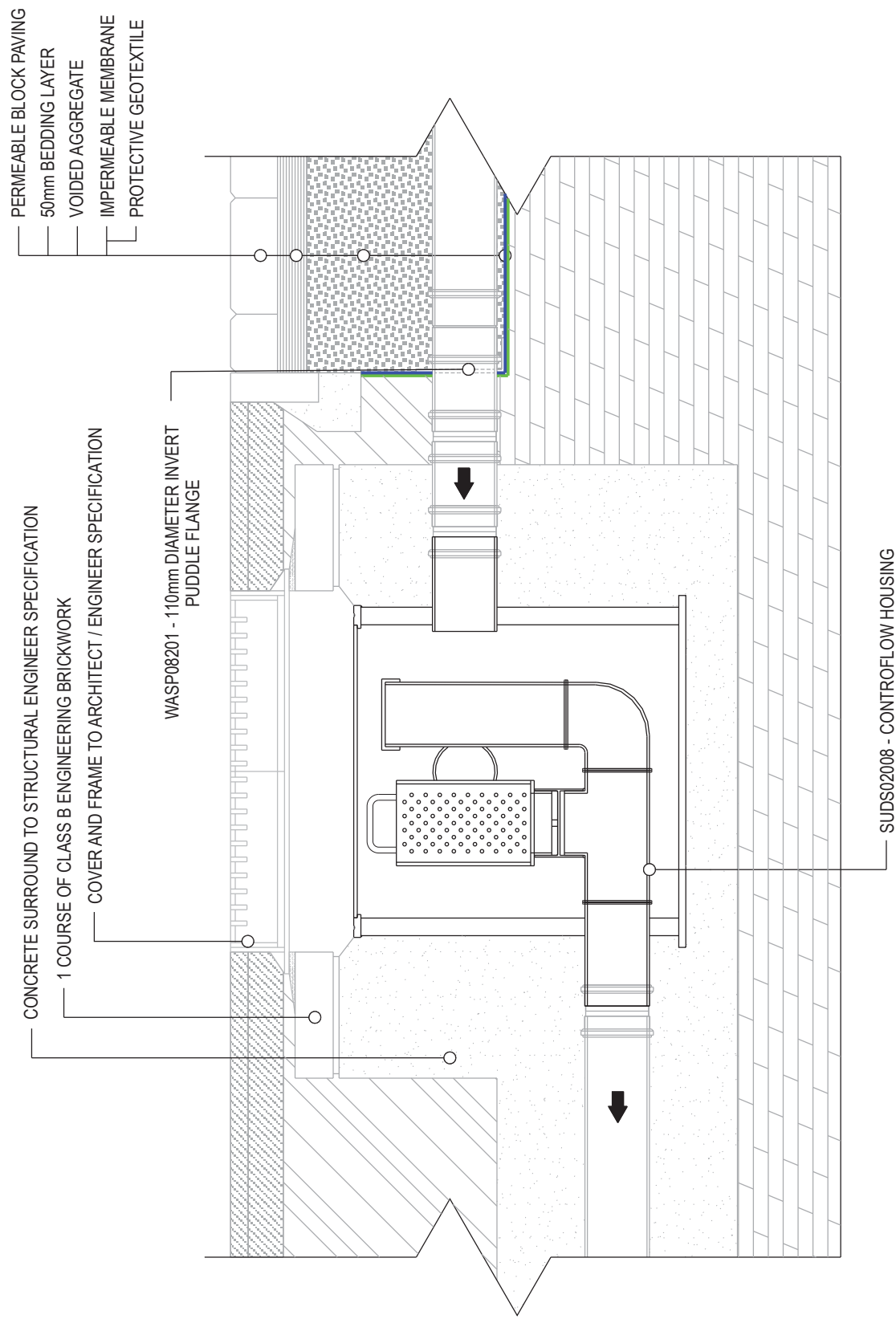
Simplifies construction

Orifice guard and rodding access

Controflow Housing - 110 Ø Stubs Stepped Invert Roddable

General Application - Controlling Water Flow from Permeable Paving Systems to Sewers in Domestic Applications

SUDS02008



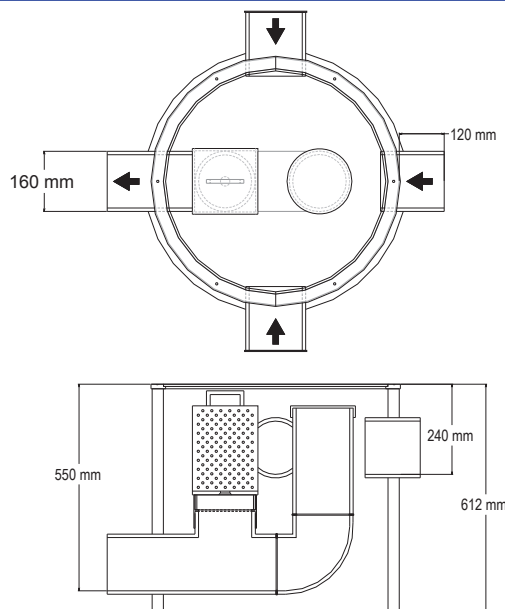
Description

A larger diameter, standard flow control chamber with a single, guarded orifice (to specified diameter), designed to manage outflows from permeable paving or other open graded sub-base construction. Controflow Commercial 160mm Diameter Stubs Stepped Invert chambers simplify the construction of transitions from shallow permeable paving to deeper constructions, or pipe outfalls. The protective guard and orifice cap are removable, and the rodding access upstand can act as an overflow with its cap removed. Three 160mm diameter inlet pipe connection stubs offer layout flexibility. Supplied with a temporary protective site cover (permanent cover and frame not included).



Packaging Details

Element	Value	Unit
Packaging unit dimension	840 x 616 (WxD)	mm
Packaging unit weight	TBC	kg
Number of units per pallet	TBC	nr
Pallet dimensions	1200 x 1200 x 150 (LxWxD)	mm
Pallet weight	TBC	kg



Specification

Element	Value	Unit
Overall width	836	mm
Overall depth	612	mm
Number of spigots	3-IN/1-OUT	nr
Inlet spigot ø O.D.	160	mm
Outlet spigot ø O.D.	160	mm
Maximum flow	TBC	l/s
Minimum flow	TBC	l/s
Unit weight	TBC	kg
Material	HDPE	0

Ideal for permeable paving

Simplifies construction

Orifice guard and rodding access

Controflow Commercial - 160 Ø Stubs Stepped Invert Roddable

General Application - Controlling Water Flow from Permeable Paving Systems to Sewers in Commercial Applications

SUDS03001

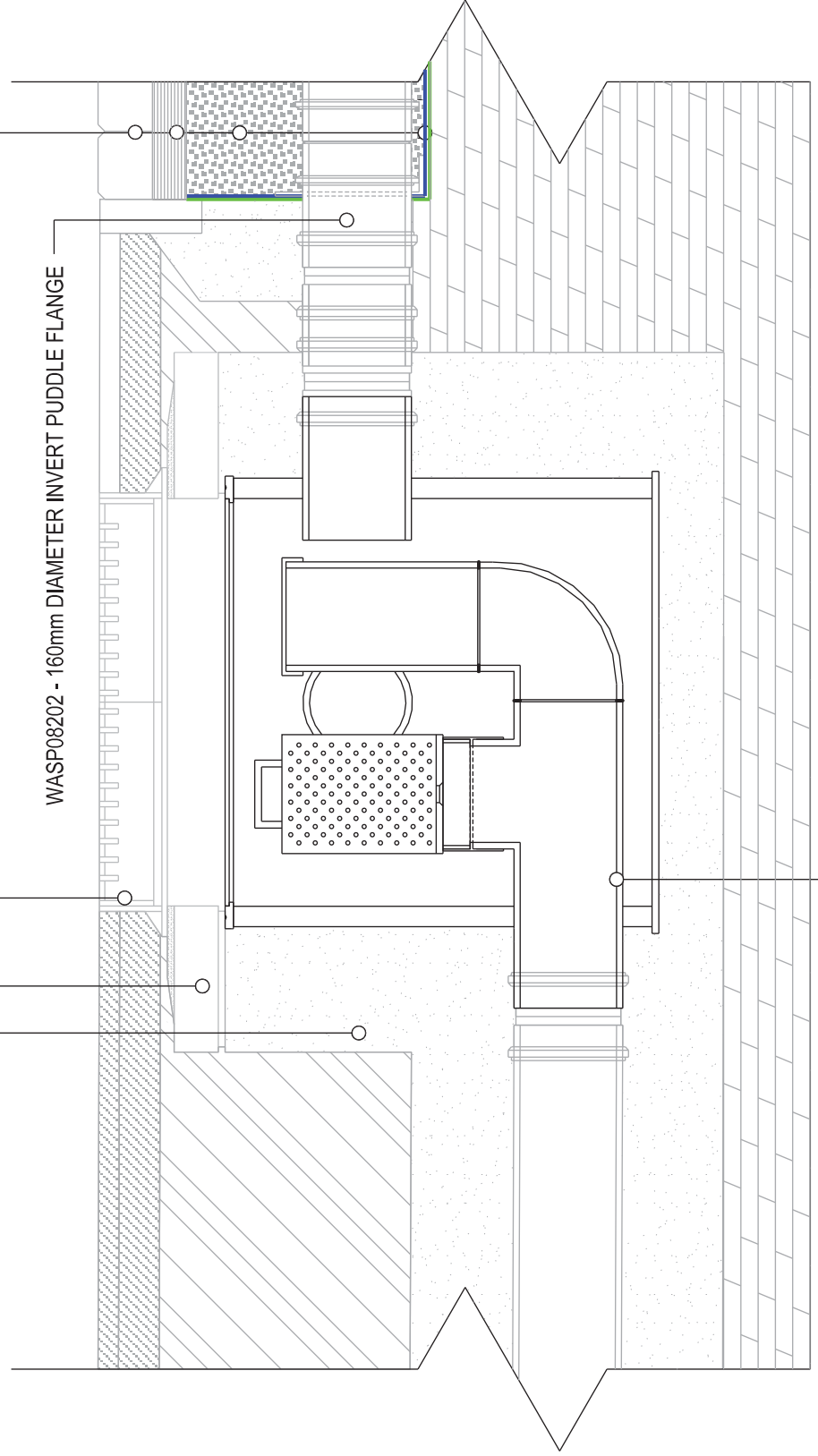
- PERMABLE BLOCK PAVING
- 50mm BEDDING LAYER
- VOIDED AGGREGATE
- IMPERMEABLE MEMBRANE
- PROTECTIVE GEOTEXTILE

— CONCRETE SURROUND TO STRUCTURAL ENGINEER SPECIFICATION

— 1 COURSE OF CLASS B ENGINEERING BRICKWORK

— COVER AND FRAME TO ARCHITECT / ENGINEER SPECIFICATION

WASP08202 - 160mm DIAMETER INVERT PUDDLE FLANGE

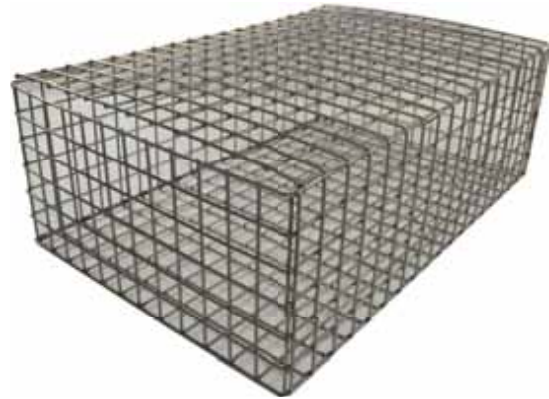


Controflow SuDS Basket

SUDS08001

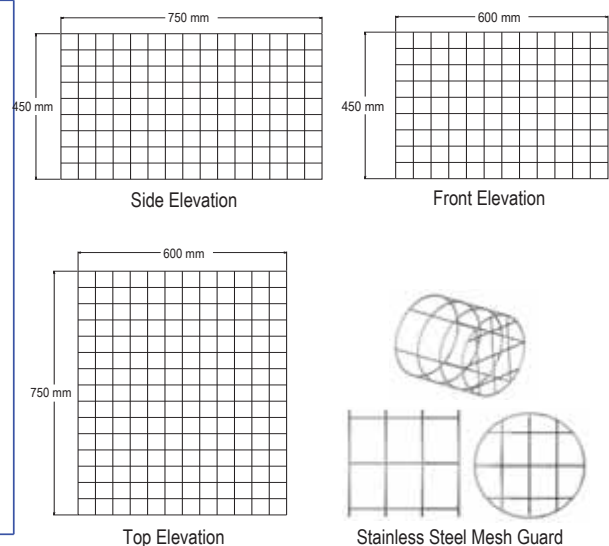
Description

The Controflow SuDS Stainless Steel Mesh Basket serves as a decorative and functional inlet, or outlet, to swales. The Controflow SuDS Basket are to be filled with 50mm - 80mm stone, and installed in accordance with site specific drawings and specifications. All baskets are supplied with a stainless steel mesh pipe guard, sized to suit the inlet or outlet pipe.



Packaging Details

Element	Value	Unit
Packaging unit dimension	750x600x450 (LxWxD)	mm
Packaging unit weight	TBC	kg
Number of units per pallet	8	nr
Pallet dimensions	1200x1200x150 (LxWxD)	mm
Pallet weight	TBC	kg



Specification

Element	Value	Unit
Unit width	600	mm
Unit Length	750	mm
Unit depth	450	mm
Basket lid mesh Ø	5	mm
Basket body mesh Ø	3	mm
Mesh aperture	50	mm
Unit weight	TBC	kg
Material	Stainless Steel	

*Stainless steel mesh guard sized to suit inlet/outlet pipe

Stainless steel construction

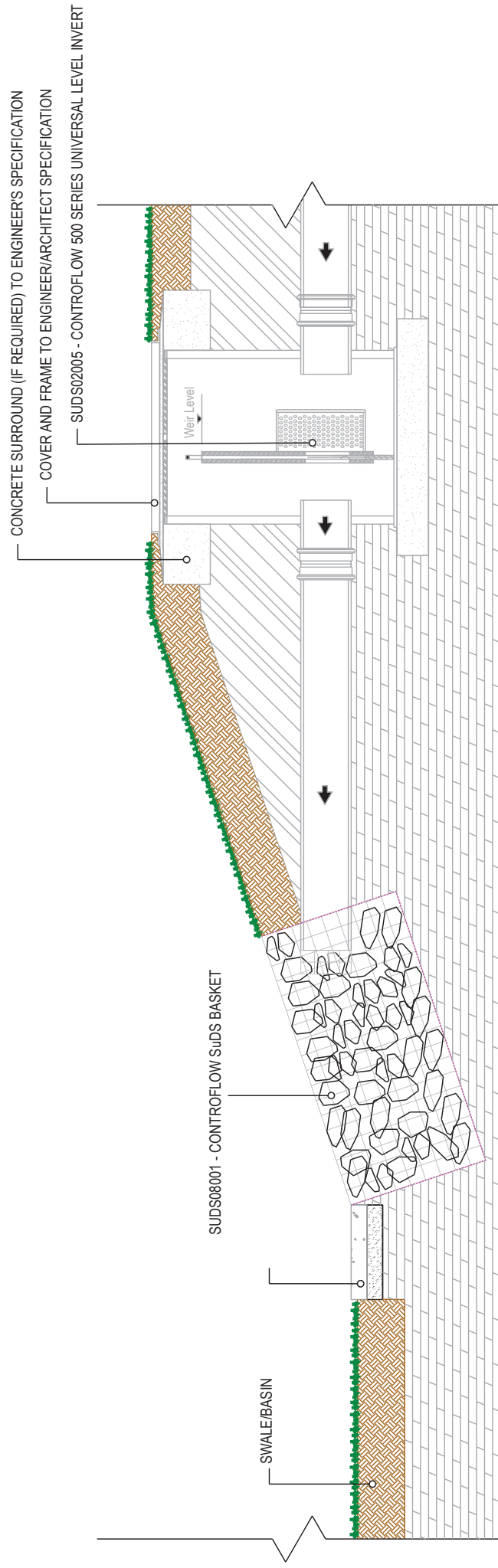
Stainless steel pipe mesh guard

Decorative and functional

Controflow SuDS Basket - Stainless Steel Mesh Basket 750x600x450

Example Application 01 - Basket Inlet from Flow Control Chamber to Swale

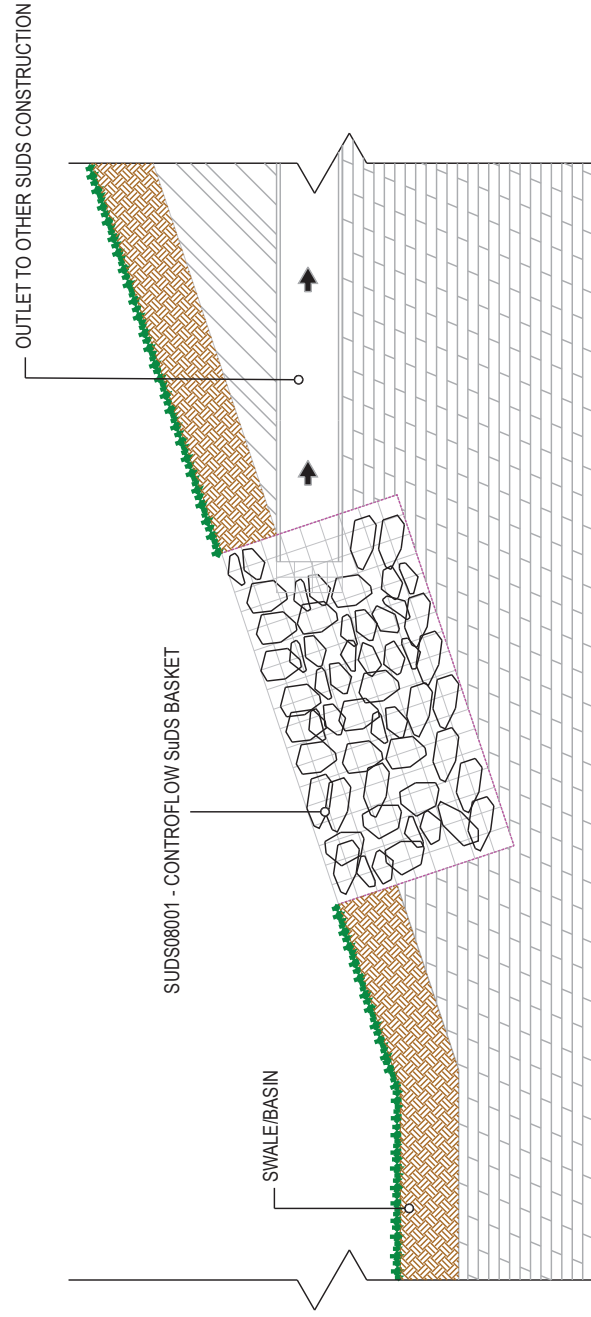
SUDS030001



Controflow SuDS Basket - Stainless Steel Mesh Basket 750x600x450

Example Application 02 - Basket Outlet from Swale to Other SuDS Construction

SUDS03001





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