



WASP
Water Ancillary Specialist Products



PREFABRICATED ORIFICE FLOW CONTROL CHAMBERS

Issue v1: August 2021

For more information please contact 01254 589987 or email sales@selenvironmental.com

Disclaimer

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ORIFICE CHAMBERS



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WASP orifice flow control chambers are bespoke prefabricated, watertight, structured wall chambers, manufactured to suit project-specific requirements. They are supplied with a pre-fitted orifice flow control device and a high-level weir wall.

Each chamber has a 300mm deep sump, which helps to separate and retain silt and other particles from stormwater run-off entering the chamber. The bulkhead on which the orifice unit is mounted is fabricated to include an overflow, the height of which can be set to suit project-specific requirements.

The Health and Safety benefits of using WASP chambers become apparent during handling and installation, due to their strong, lightweight construction and integral lifting points. In addition, off-site fabrication ensures uncompromised, high-quality products being delivered to site ready-to-install, reducing installation time and costs.



Key benefits

- Arrives to site, ready to install
- Orifice device pre-installed
- Watertight, structured wall construction
- Strong, lightweight, One-piece installation
- Made from High-density Polyethylene (HDPE)
- Integral lifting points as standard
- Depths to suit project-specific requirements
- Wide range of diameters available
- Multiple inlet and outlet options
- Ø1200+ Fitted step rungs to BS EN 13101
- Supplied with integral spigot connections
- Easy access for collection and disposal of silt

Chemical resistance

- HDPE is naturally resistant to most chemicals associated with stormwater drainage systems.

Diameter

- 600mm to 2400mm (ID)

Depth

- Up to 3000mm deep

Sump depth

- 300mm deep as a minimum standard.

Inlets/outlets diameter

- 110mm to 976mm (OD)

Colour

- Black

Accessories & Options

- Range of flexible couplings for simple connection to ongoing pipe networks available
- Flap valves
- Built in weir overflow available

Compliance with:

- New Design & Construction Guidance - Section C7.1.1 Sediment Management
- Sewers for Adoption (SfA8) 8th edition
- Components comply with BS EN 13598-2:2020
- Manufactured to Adoptable and Non-Adoptable applications
- Building Regulations - Part H1

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CODE	DESCRIPTION
WASP06102WW	600mm Ø Chamber; 1.5m deep; 4 x spigots; max. 315mm Ø
WASP06251WW	1200mm Ø Chamber; 1.0m deep; 4 x spigots; max. 500mm Ø
WASP06252WW	1200mm Ø Chamber; 1.5m deep; 4 x spigots; max. 500mm Ø
WASP06253WW	1200mm Ø Chamber; 2.0m deep; 4 x spigots; max. 500mm Ø
WASP06254WW	1200mm Ø Chamber; 2.5m deep; 4 x spigots; max. 500mm Ø
WASP06255WW	1200mm Ø Chamber; 3.0m deep; 4 x spigots; max. 500mm Ø
WASP06301WW	1350mm Ø Chamber; 1.0m deep; 4 x spigots; max. 600mm Ø
WASP06302WW	1350mm Ø Chamber; 1.5m deep; 4 x spigots; max. 600mm Ø
WASP06303WW	1350mm Ø Chamber; 2.0m deep; 4 x spigots; max. 600mm Ø
WASP06304WW	1350mm Ø Chamber; 2.5m deep; 4 x spigots; max. 600mm Ø
WASP06305WW	1350mm Ø Chamber; 3.0m deep; 4 x spigots; max. 600mm Ø
WASP06351WW	1500mm Ø Chamber; 1.0m deep; 4 x spigots; max. 600mm Ø
WASP06352WW	1500mm Ø Chamber; 1.5m deep; 4 x spigots; max. 600mm Ø
WASP06353WW	1500mm Ø Chamber; 2.0m deep; 4 x spigots; max. 600mm Ø
WASP06354WW	1500mm Ø Chamber; 2.5m deep; 4 x spigots; max. 600mm Ø
WASP06355WW	1500mm Ø Chamber; 3.0m deep; 4 x spigots; max. 600mm Ø
WASP06401WW	1800mm Ø Chamber; 1.0m deep; 4 x spigots; max. 900mm Ø
WASP06402WW	1800mm Ø Chamber; 1.5m deep; 4 x spigots; max. 900mm Ø
WASP06403WW	1800mm Ø Chamber; 2.0m deep; 4 x spigots; max. 900mm Ø
WASP06404WW	1800mm Ø Chamber; 2.5m deep; 4 x spigots; max. 900mm Ø
WASP06405WW	1800mm Ø Chamber; 3.0m deep; 4 x spigots; max. 900mm Ø

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Accessories

Flexible Couplings

We can supply flexible couplings for forming joints between WASP chamber spigots and inlet / outlet drainage pipes. A range of diameters and adapters are available to suit most combinations. Where the difference in diameter exceeds 12mm a bush should be used.

The stainless steel and rubber construction allows for greater flexibility and the ability to withstand an internal water pressure of 2.5 bar.

Couplings comply with the requirements of Water Industry Specification WIS 4-41-01 "Specification for flexible couplings for gravity sewerage and drainage pipes".



There are no spot-welds on the shear band having been replaced with fasteners using TOX[®] technology that enhances the corrosion resistance of the couplings. Couplings are secured in place using the screw 'jubilee' type fastener.



Flap Valves

Where your surface water drainage discharges into a watercourse or combined sewer you may require a flap valve to prevent backflow into your drainage collection system.

If required, flap valves can be installed within your catchpit chamber during their manufacture in our factory. A range of diameters are available with a hinged design that ensures full face sealing when closed.



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ORIFICE CHAMBERS

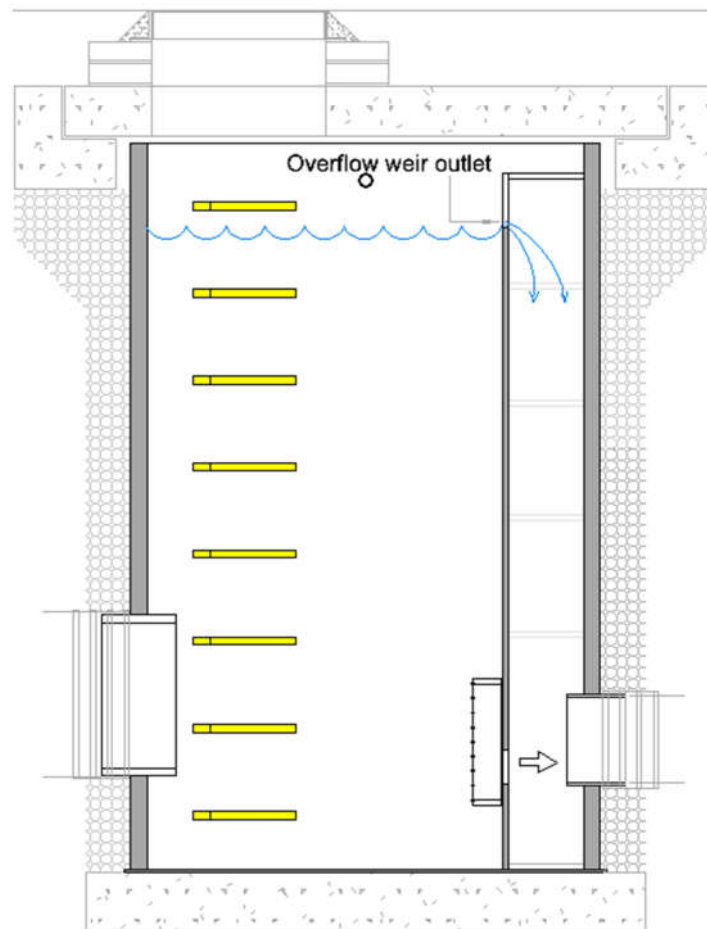


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Overflow Facility

The WASP WW chamber range offers the flexibility to include a fixed height weir overflow. The overflow weir is installed within the bulkhead on which the orifice device is mounted.

The weir can be set to a specific height relative to the outlet pipe invert level.



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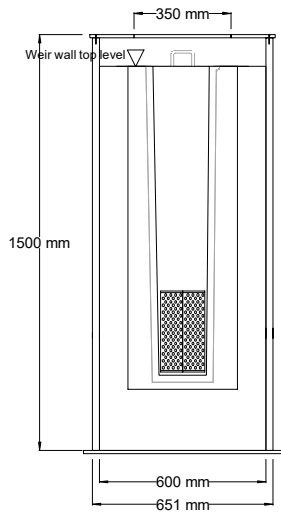
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Technical Details

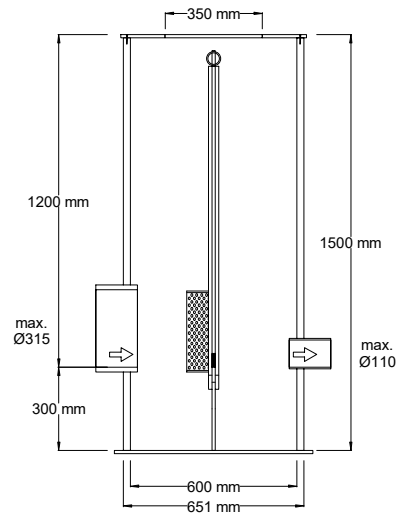
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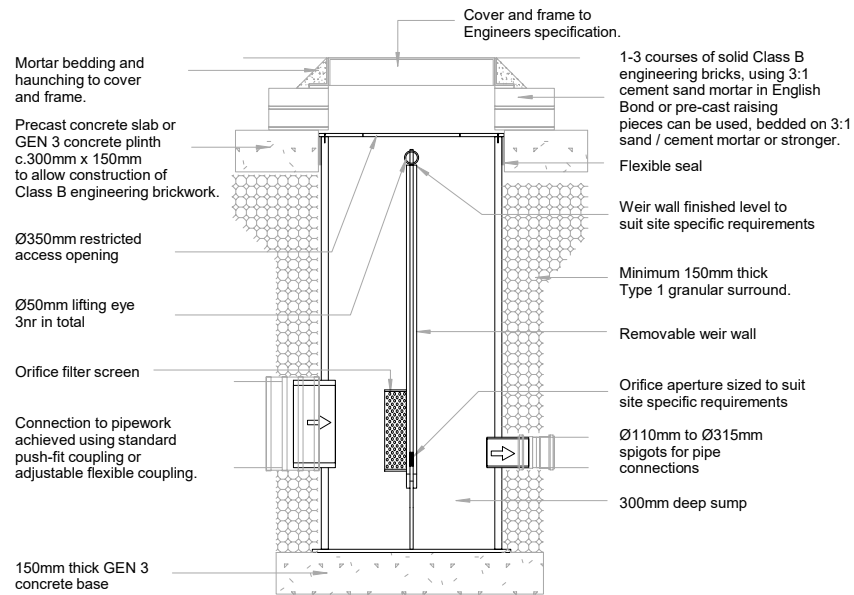
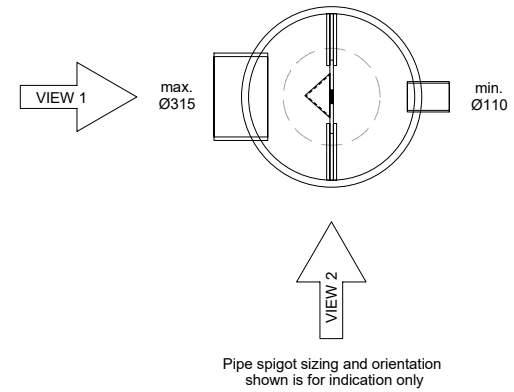
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VIEW 1 (chamber shown WASP06102WW)



VIEW 2 (chamber shown WASP06102WW)

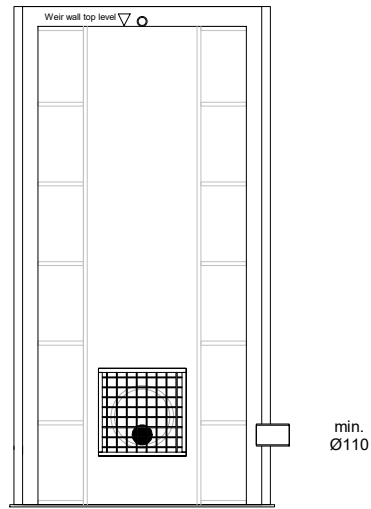


INSTALLATION DETAIL
 WASP06102WW Series
 Prefabricated Orifice Flow Control
 Chamber with Internal Weir Wall
 Ø600 up to 1.5m deep chamber
 By SEL Environmental Tel: 01254 589987

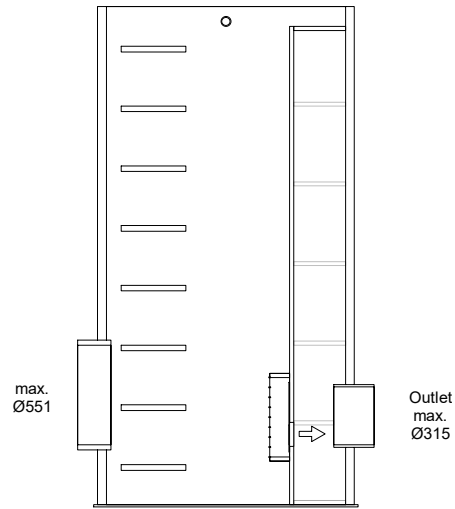


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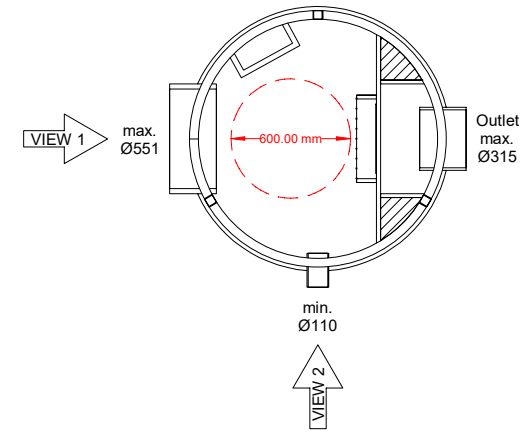
WASP06102WW - Up to 1500mm deep



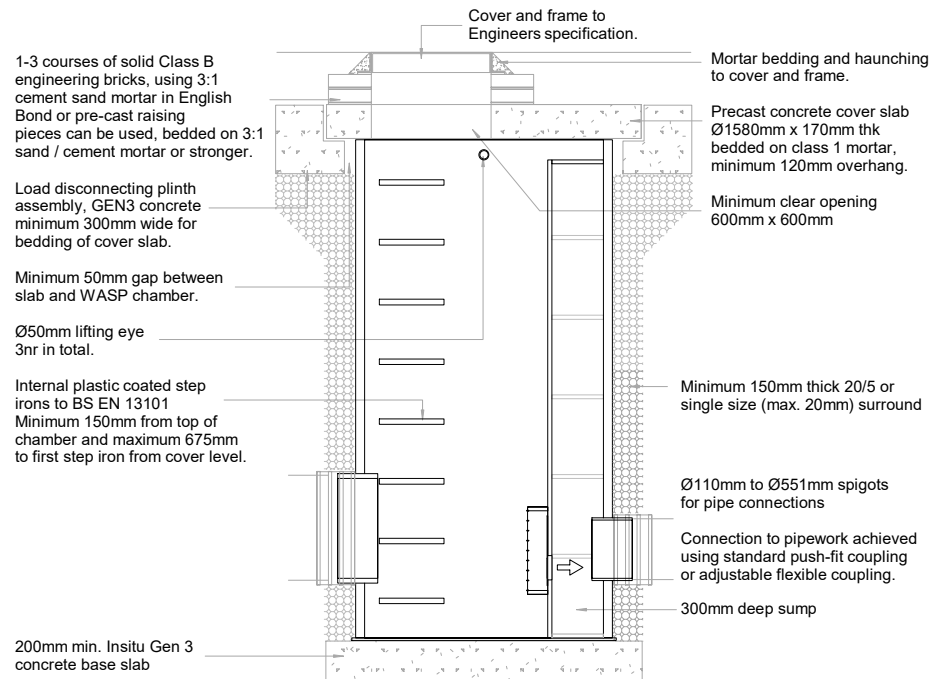
VIEW 1 (chamber shown WASP06254WW)



VIEW 2 (chamber shown WASP06254WW)



Pipe spigot sizing and orientation shown is for indication only

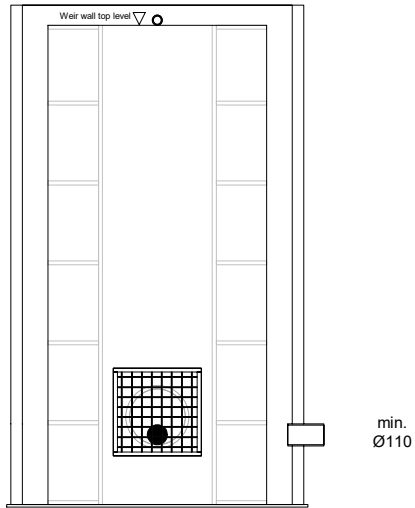


INSTALLATION DETAIL
 WASP06250WW Series
 Prefabricated Orifice Flow Control Chamber with internal Weir Wall
 Ø1200 up to 3.0m deep chamber
 By SEL Environmental Tel: 01254 589987

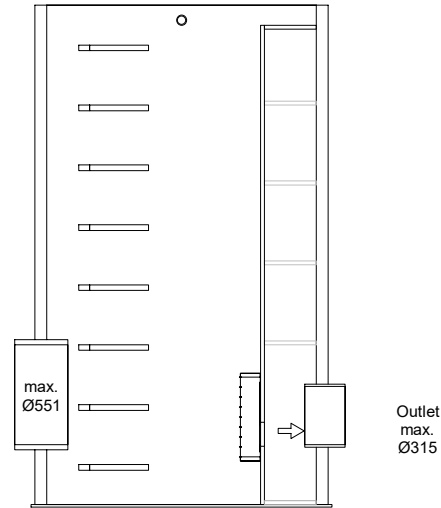


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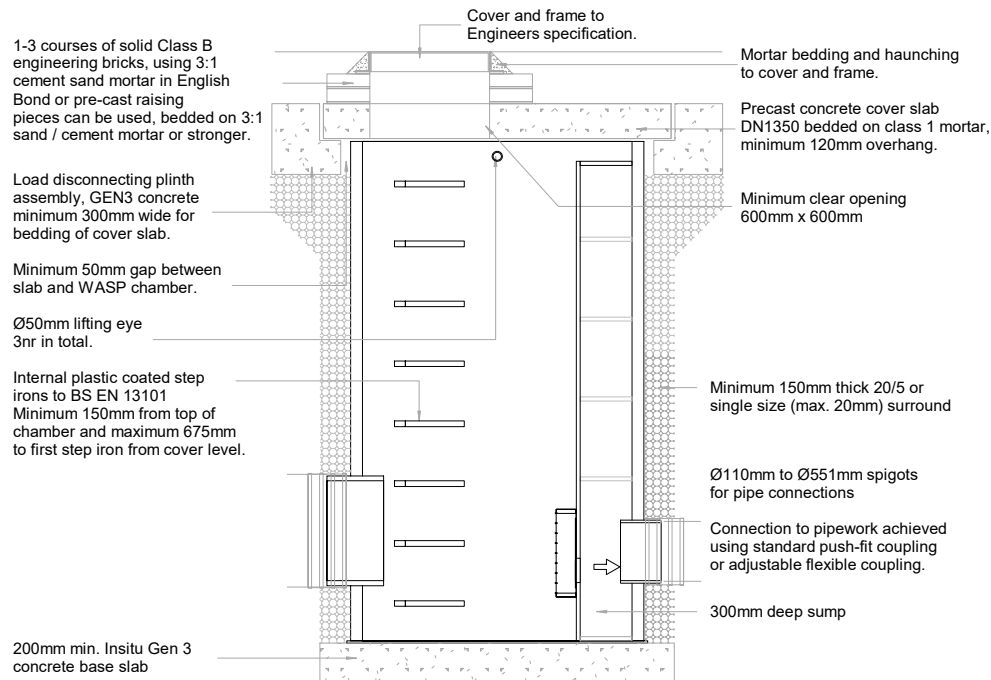
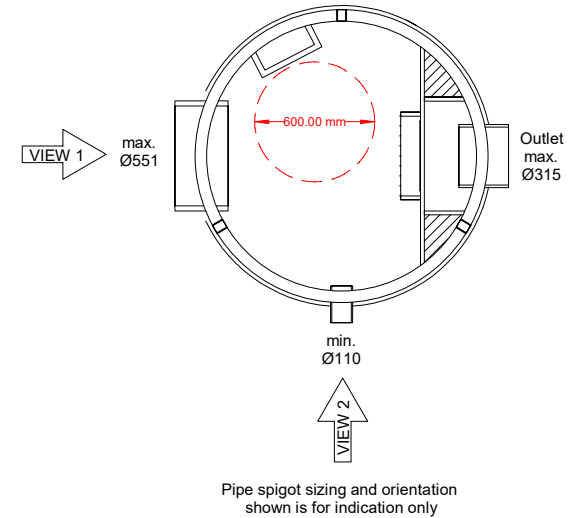
WASP06251WW - Up to 1000mm deep
 WASP06252WW - Up to 1500mm deep
 WASP06253WW - Up to 2000mm deep
 WASP06254WW - Up to 2500mm deep
 WASP06255WW - Up to 3000mm deep



VIEW 1 (chamber shown WASP06304WW)



VIEW 2 (chamber shown WASP06304WW)

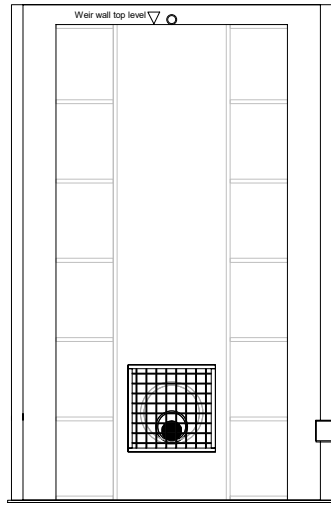


INSTALLATION DETAIL
 WASP06300 Series
 Prefabricated Orifice Flow Control Chamber with Internal Weir Wall
 Ø1350 up to 3.0m deep chamber
 By SEL Environmental Tel: 01254 589987

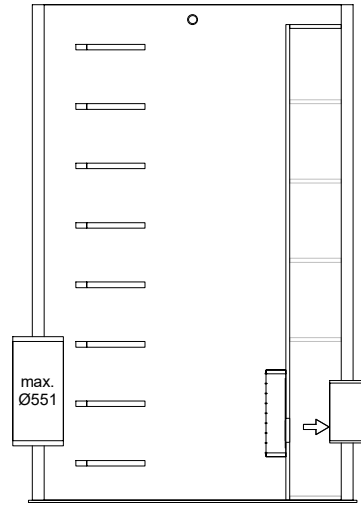


Tel: 01254 589987

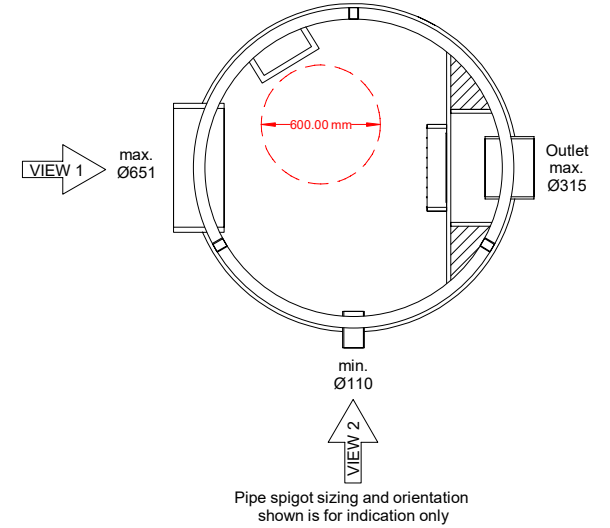
WASP06301WW - Up to 1000mm deep
 WASP06302WW - Up to 1500mm deep
 WASP06303WW - Up to 2000mm deep
 WASP06304WW - Up to 2500mm deep
 WASP06305WW - Up to 3000mm deep



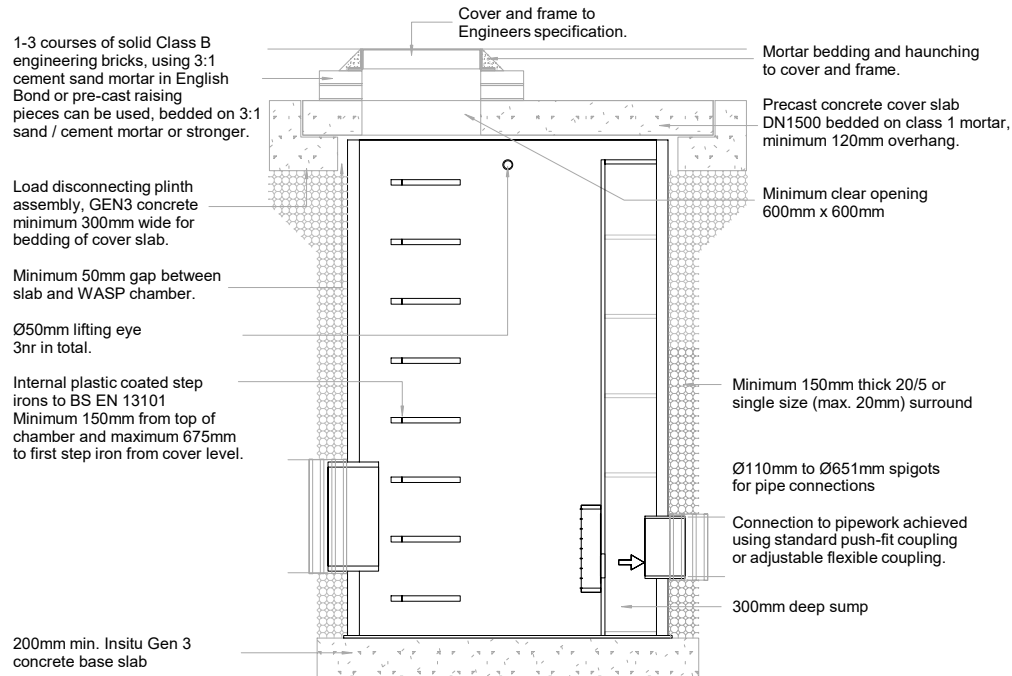
VIEW 1 (chamber shown WASP06354WW)



VIEW 2 (chamber shown WASP06354WW)



Pipe spigot sizing and orientation shown is for indication only

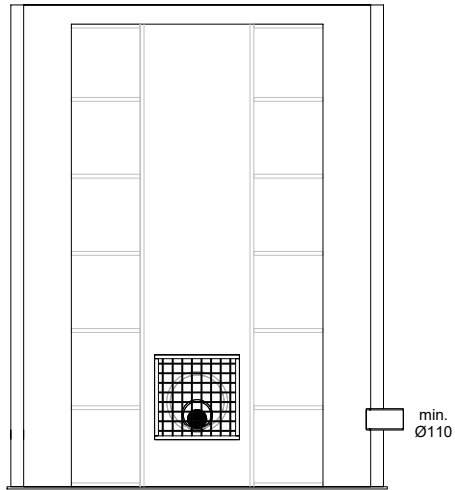


INSTALLATION DETAIL
 WASP06350 Series
 Prefabricated Orifice Flow Control Chamber with Internal Weir Wall
 Ø1500 up to 3.0m deep chamber
 By SEL Environmental Tel: 01254 589987

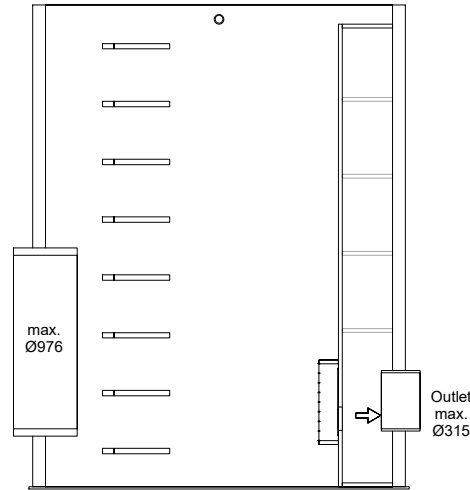


Tel: 01254 589987

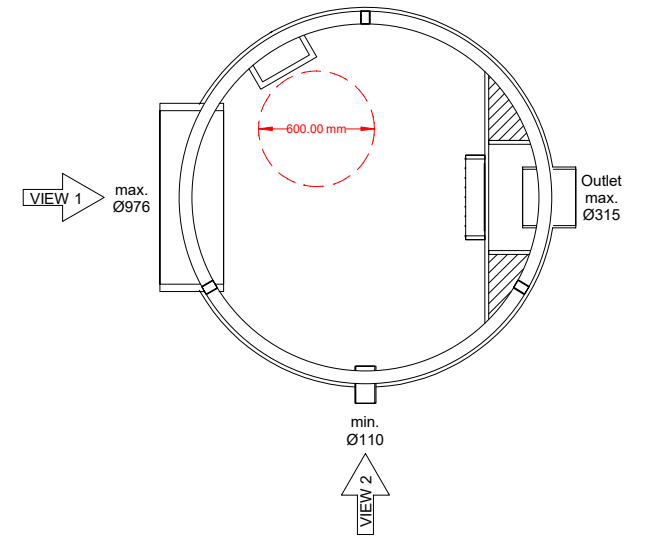
WASP06351WW - Up to 1000mm deep
 WASP06352WW - Up to 1500mm deep
 WASP06353WW - Up to 2000mm deep
 WASP06354WW - Up to 2500mm deep
 WASP06355WW - Up to 3000mm deep



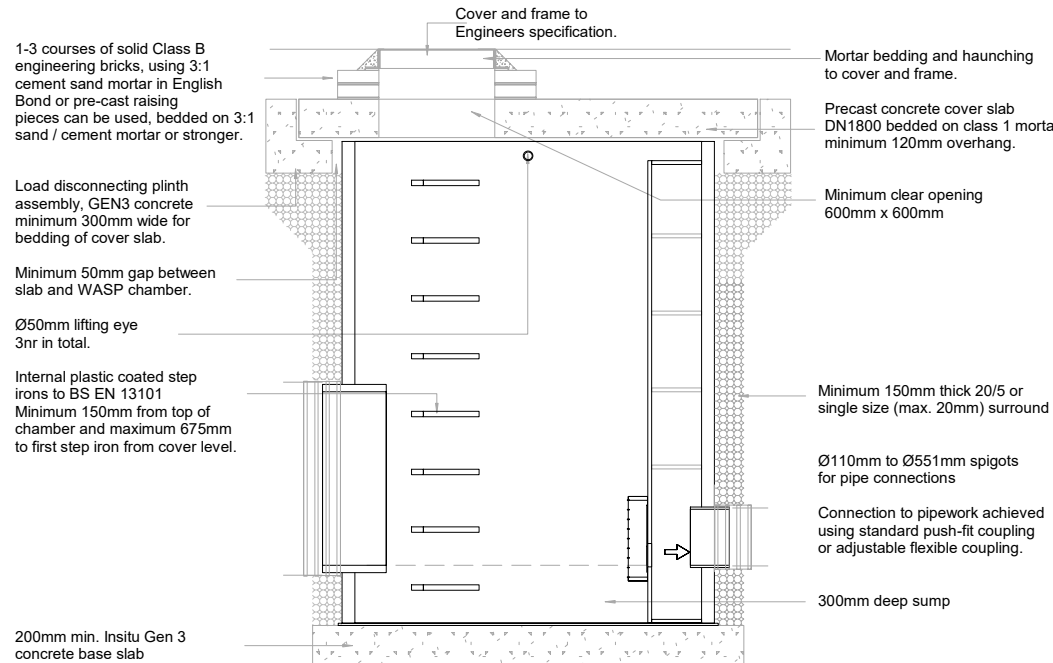
VIEW 1 (chamber shown WASP06404WW)



VIEW 2 (chamber shown WASP06404WW)



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INSTALLATION DETAIL
 WASP06400WW Series
 Prefabricated Orifice Flow Control
 Chamber with Internal Weir Wall
 Ø1800 up to 3.0m deep chamber
 By SEL Environmental Tel: 01254 589987



Tel: 01254 589987

WASP06401WW - Up to 1000mm deep
 WASP06402WW - Up to 1500mm deep
 WASP06403WW - Up to 2000mm deep
 WASP06404WW - Up to 2500mm deep
 WASP06405WW - Up to 3000mm deep

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End of Document

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