



P SERIES – UNPROTECTED ORIFICE

MODEL: OFCP300160

OVERVIEW

Low discharge rates, particularly from new housing developments is becoming commonplace and regularly stipulated by the Local Lead Flood Authorities (LLFA's). For this reason the requirement for a proven method of reducing flows from new housing sites, individual housing plots and new builds are becoming a significant part of SuDS design and overall flood management.

The ORIFLO OFCP300160 is classed as an unprotected orifice plate – flow control chamber, designed to support SuDS management and the sewer infrastructure as part of a designed attenuation system helping prevent flooding by controlling the flow into the main sewer. The strategic use of smaller flow control units has been proven to support SuDS, in regards to the overall storage and land requirement on site and from various storage systems, like smaller modular/crate attenuation systems and permeable paving.

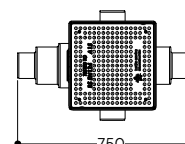
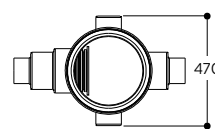
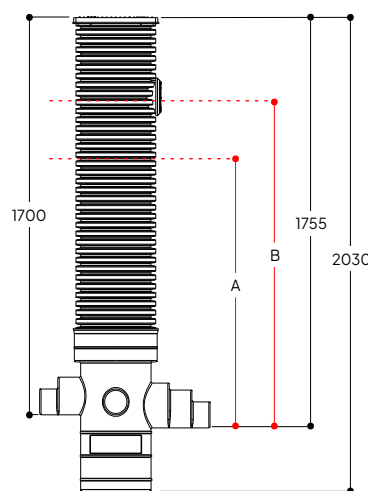
SPECIFICATION

300mm diameter, single piece - factory built units, delivered to site ready to install. Featuring a robust, impact resistant, rota moulded base with four moulded pipe spigots. The main inlet and outlet have the option of either 110mm and 160mm BS EN 1401 connections, whilst the two further side inlets offer 110mm BS EN 1401 connections. All inlet spigots have blind ends that can be cut off on site if required.

Designed to facilitate such discharge flows from 0.5 to 24 litres per second with a design head of between 250mm and 1405mm.

GUIDANCE DOCUMENTS

- ① BS 8582 9.6
- ② CIRIA75310.2, 20.5 Compliance
- ③ Design & Construction Guidance – April 2020. Section C7.12 – Flow Control Device



TECHNICAL DATA

A - MaxHead - Attenuation height (Light traffic):	1205mm
B - MaxHead - Attenuation height (Pedestrian):	1405mm
Minimum restricted discharge achievable:	0.5 l/p/s
Maximum restricted discharge achievable:	20 l/p/s
Minimum design head:	250mm
Maximum design head:	1405mm
Recommended minimum orifice Ø (Adoptable):	50mm
Recommended minimum orifice Ø (Non Adoptable):	20mm
Main inlet & outlet connections:	110/160mm
Side Connections:	110mm
Access Cover rating:	A15
Approx. Weight:	19kg



What information do we need to design your ORIFLO chamber?

- The Design Flow – Maximum Discharge
- The Design Head – Invert to Top Water Level
- Pipework sizes and configurations
- Invert Depths

Or just click below to use the flow rate calculator on our website:

www.turtleenviro.co.uk/oriflo

