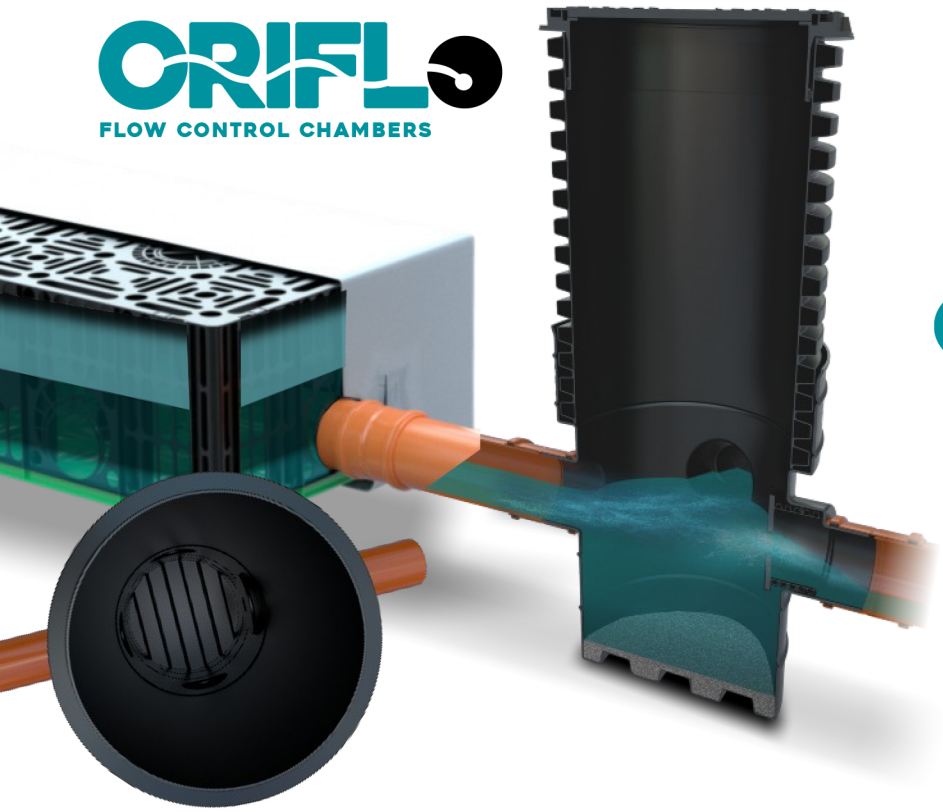
ORIFLO
FLOW CONTROL CHAMBERS



P SERIES MODEL: **OFCP450**

OVERVIEW

The ORIFLO OFCP450 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 proven to support SuDS, in regards the overall storage and land requirement on site and from various storage systems, like smaller modular/crate attenuation systems and permeable paving.

APPLICATION

Designed for installation downstream of cellular/crate attenuation and irrigation systems, as well as permeable paving, where solids and debris will have been already removed upstream.

DESCRIPTION

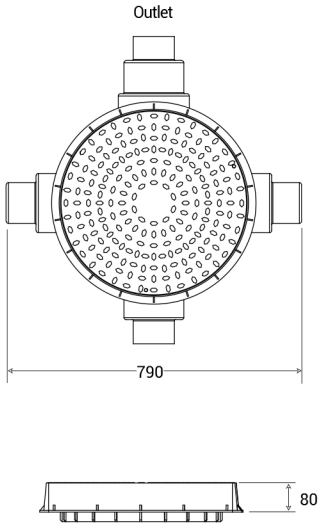
450mm diameter, single piece - factory built units, delivered to site ready to install. Featuring a robust, impact resistant, rota moulded base with four moulded pipe spigots that accommodate 110/160mm EN 1401 pipe fittings. All spigots have blind ends, that can be cut off on site if required. Units are supplied with a circular section, 35KN loading access cover.

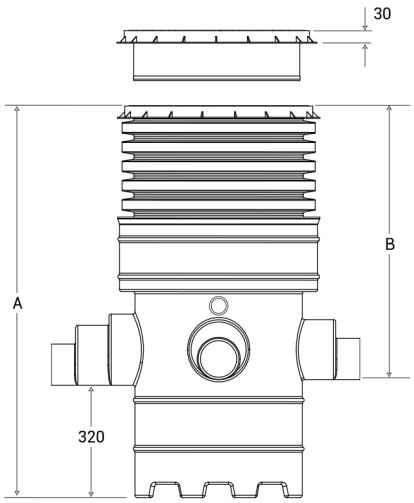
COMPLIANCE

- Design & Construction Guidance - April 2020. Section C7.12 - Flow Control Device
- Building Regulations - Part H1
- New DCG (Design and Construction Guidance) states; In Adoptable applications, this type of flow control device, is designed with a minimum 50mm orifice diameter

FEATURES & BENEFITS

- Single piece unit delivered ready to install, reducing installation time and costs
- Chemically resistant rota moulded polyethylene base with heavy duty ribbed bottom
- Lightweight - No machinery or lifting equipment required
- Quick and simple to install
- Offers significant onsite savings against PCC and other traditional construction methods, as they need no construction or wet trades
- Available in three standard depths
- Inlet options- 3 x 110 /160mm diameter spigot connections
- Outlet options - 110/160mm diameter spigot connections
- Removable Orifice Plate - Available in various orifice diameters
- Orifice Plate can be changed easily should the hydraulics and flow rates change due to future development
- Access shafts are easily trimmed to suit required invert
- 320mm sump depth for catchment of suspended fines
- Can be installed in granular backfill





PRODUCT CODE	INLET PIPEWORK Ø	OUTLET PIPEWORK Ø	OVERALL DEPTH A	INVERT INLET B	APPROX. WEIGHT
	mm	mm	mm	mm	kg
OFCP450/1	**110 & 160**	**110 & 160**	**1050**	**730**	**17**
OFCP450/1.5*	**110 & 160**	**110 & 160**	**1525**	**1205**	**24**
OFCP450/2*	**110 & 160**	**110 & 160**	**1980**	**1660**	**28**

* Orifice plates in these units cannot be removed if installed with restricted access cover. So other access methods should be considered, if you require full access for removal. However given the application of these units, the orifice should not need to be removed.

. . To calculate the specific orifice diameter from a prescribed restricted flow rate, you can use the flow rate calculator on our website: **www.turtleenviro.co.uk/oriflo**

60yr
Design Life

Manufactured in the UK