

**Assessment Schedule for the
StormCleanser™ Hydrodynamic
Separator as manufactured by FP
McCann**



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1. SCOPE

This schedule specifies the requirements for the StormCleanser™ Hydrodynamic Separator as manufactured by FP McCann for the removal of suspended solids from surface water.

It is applicable to units specified in Table 1 when the flow does not exceed the stated maximum treatment flow rate.

Unit diameter (mm)	Maximum Treatment Flow Rate (l/s)
900	25
1050	33
1200	43
1500	67
1800	96
2100	131
2400	172
2700	217
3000	268
3300	387
4000	477

2. PRODUCT DESCRIPTION

2.1 Introduction

The StormCleanser™ is designed to remove suspended solids (TSS), and floatable debris from the storm water run-off. Water and pollutants enter the system

via the inlet pipe and separation channel arrangement.

Low energy vortex flow patterns allow the floatables to gather and solids to settle to the bottom of the treatment chamber for subsequent removal. Re-suspension of the solids is minimised by provision of a baffle plate positioned above the solids storage sump. Floatable debris is retained within the Hydrodynamic Separator allowing easy access for suction cleansing. Storm water surges in excess of the maximum flow rate, overflow a weir, bypass the treatment zone and directly discharge through the outlet pipe.

The StormCleanser™ has no moving parts, requires no power and is installed within standard precast reinforced concrete base units and concrete rings. All internal flow components are manufactured in stainless steel.

The StormCleanser™ can be used independently or as part of a surface water treatment train. It can function as either pre-treatment or as a standalone device.

The StormCleanser™ system is designed as a flow-through structure with settling and/or separation zones within the structure. Flows in excess of the maximum treatment flow rate by-pass the vortex treatment zone

2.2 Applicable standards

There are no applicable performance standards for a vortex separator system. Performance requirements shall comply with the following protocol:

- British Water Code of Practice: Assessment of Manufactured Treatment Devices Designed to Treat Surface Water Runoff ⁽¹⁾.

2.3 Approval History

The StormCleanser™ Hydrodynamic Separator was originally awarded WRC Approved® certification in December 2020:

- PT/475/1220

This is the first re-approval of the system.

3. REQUIREMENTS AND TESTING

3.1 Materials and components

Separator components shall be fabricated with Stainless Steel 1.4301, in accordance with the listed material composition and mechanical properties in BS EN 10088-2:2024⁽²⁾.

Anchor bolts and fittings used in site installations should be manufactured from stainless steel 1.4301 in accordance with the listed material composition and mechanical properties in BS EN 10088-1:2023⁽³⁾.

The Neoprene gasket shall comply with the requirements of BS EN 681-1⁽⁴⁾.

3.2 Type Testing

The StormCleanser™ shall be tested in accordance with New Jersey Department of Environmental Protection Laboratory Protocol (NJDEPLP) and meet the following requirements:

- Captured material shall not be washed out of the storage sump under high flow conditions. NJDEPLP, Section 4.
- TSS Annualized Weighted Removal Efficiency for chosen MTR shall be >50%, for particles up to 1000 microns with an average of 63 microns. NJDEPLP, Section 5.

FP McCann have provided calculations to demonstrate conversion to the BWCoP to a satisfactory level of efficacy. This is therefore acceptable to demonstrate compliance with the BWCoP.

3.3 Manufacture

To ensure the quality and performance of the StormCleanser™ Hydrodynamic Separator, the manufacturing process shall include appropriate systems for the:

- Specification of component materials;
- Verification component materials received are to specification;
- Handling and storage of all component materials and finished units;
- Detailed drawing / schedule for manufacture
- Manufacture / assembly of StormCleanser™ Hydrodynamic Separator and
- Fabrication and quality control of workmanship.

The production of the StormCleanser™ Hydrodynamic Separator and related quality control procedures shall comply with requirements to ensure the stated performance of the product is reliably achieved.

3.4 Installation

When installed in accordance with the installation documentation^(5,6,7), the StormCleanser™ Hydrodynamic Separator shall be reasonably expected to perform as described.

PT/586/0126-AS (January 2026)

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4. APPROVAL

The StormCleanser™ Hydrodynamic Separator has been audited and successfully met all the requirements stated within this assessment schedule

Signed:

Valid until 31st December 2030

7. STORMCLEANSER™ Operation and Maintenance Manual.

5. REFERENCES

1. British Water Code of Practice: Assessment of Manufactured Treatment Devices Designed to Treat Surface Water Runoff, 2016.
2. BS EN 10088-2:2024, Stainless steels. Technical delivery conditions for sheet/plate and strip of corrosion resistant steels for general purpose.
3. BS EN 10088-1:2023, Stainless steels. List of stainless steels
4. BS EN 681-1:1996 Elastomeric seals. Material requirements for pipe joint seals used in water and drainage applications. Vulcanized rubber
5. STORMCLEANSER™ On-Site Installation manual.
6. STORMCLEANSER™ Factory Fitted Installation Manual.