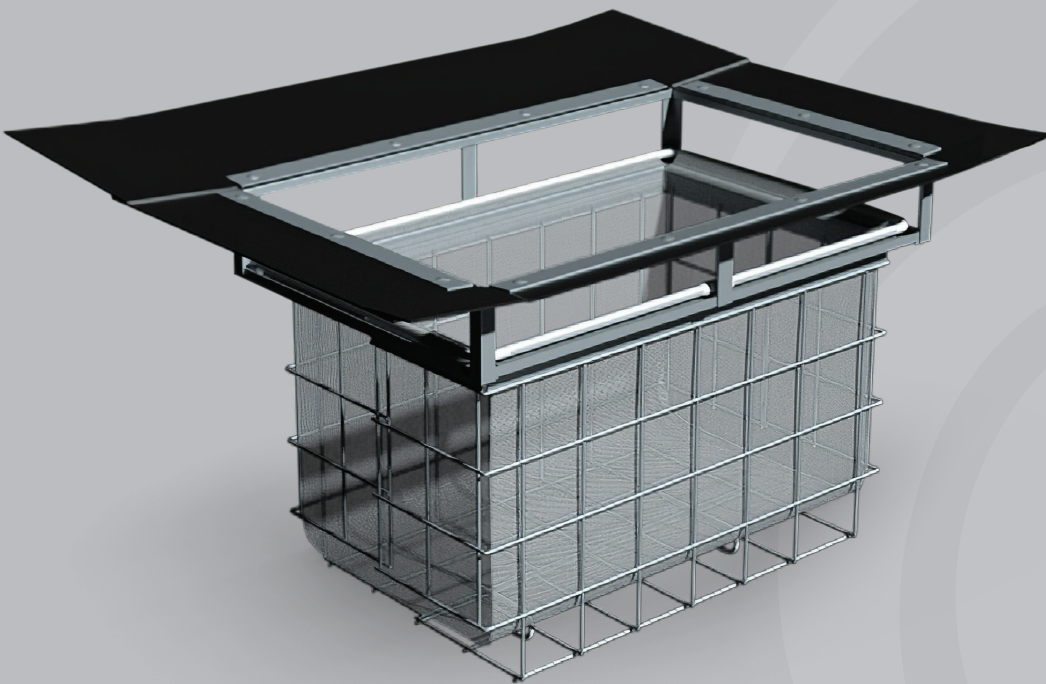


OceanGuard®

Installation Guide



Stopping Pollution Entering Waterways



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Introduction

The purpose of this manual is to advise the safest and most efficient method for installing the OceanGuard®.

This document does not include any details relating to OH&S procedures or requirements related to gully pit installation. It is recommended that all personnel performing installation activities evaluate their own requirements for the compliance with relevant industry regulations and guidelines.

Equipment

Typical tools required for installation include the following:

- Tape measure
 - Marking Template
 - Marking spray paint
 - 8mm masonry drill
 - 5 mm steel drill
 - Pop Riveter for 4.8mm rivets
 - Hammer
 - Stanley knife
 - Straight edge
 - 10mm socket and ratchet
 - Hacksaw
-

Components

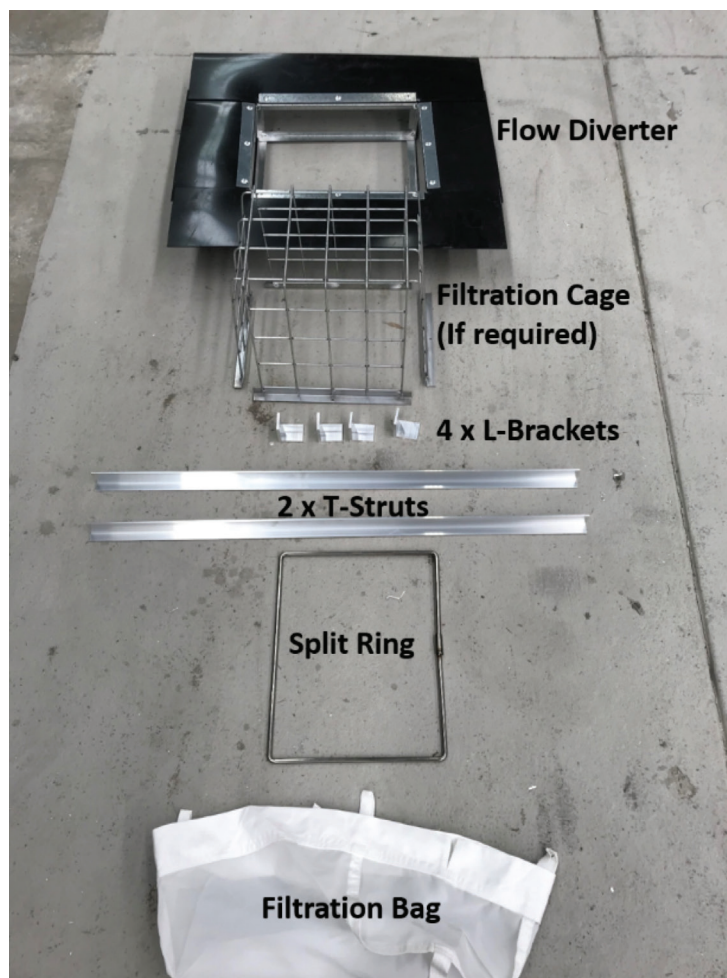


Figure 1: OceanGuard® components

Configurations

The OceanGuard® can fit a range of pits typically found in Australia including, kerb entry, rear entry with grated drain entry as well as field gully pits. There are multiple sizes to suit pits ranging in plan dimensions of 450 x 450mm – 1200 x 1200mm. Additional custom sizes are available to suit circular and non-standard pits.

The standard OceanGuard® installation treats surface flow only (see Figure 2). In some instances, it may be necessary to perform an installation that treats pipe flow, however in this scenario design checks by a suitable qualified engineer need to be undertaken to ensure the upstream catchment is not excessively large. As a guide, inlet pipe sizes should be limited to no larger than DN300mm. Please note that the OceanGuard® technology is not a replacement for an in-line gross pollutant trap. See Figure 3 for configuration details.

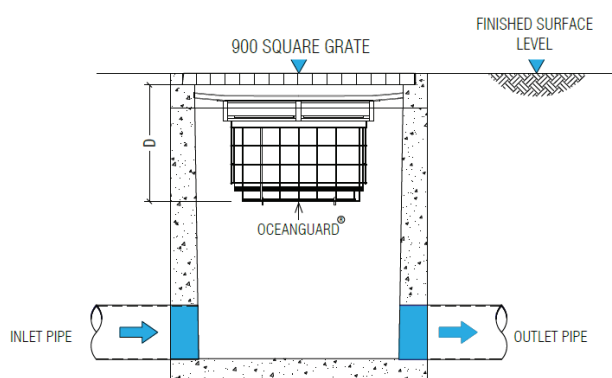


Figure 2: Standard configuration – surface flow

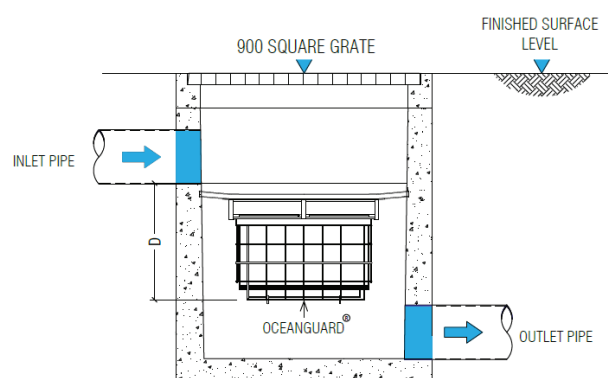


Figure 3: Example configuration – pipe flow

Another typical configuration required, is where the runoff collected by grated strip or trench drains needs to be treated (see Figure 4).

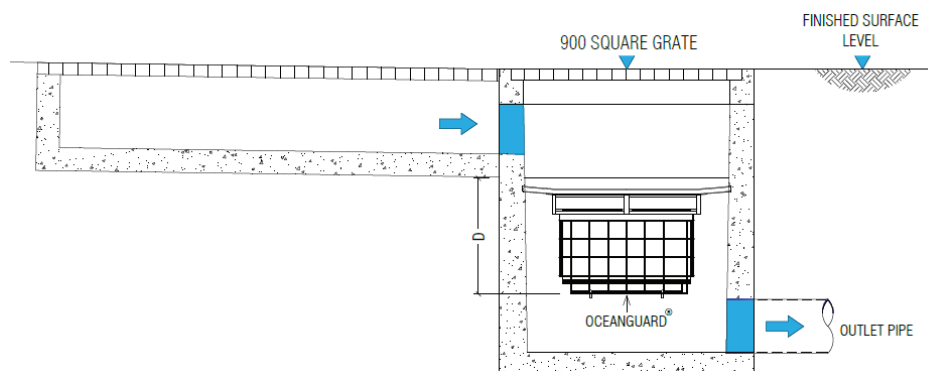


Figure 4: Example configuration – Grated strip/trench drain

Installation Procedure

The aim of all pit insert installations is to install the largest unit into each pit, without influencing the hydraulic performance of the pit or drainage system.

Strut Install

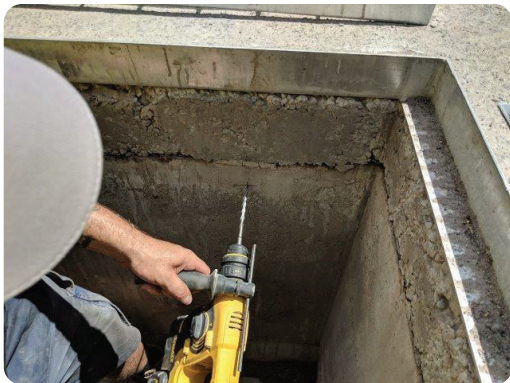
- 1 Measure the internal dimensions of the pit while marking the centre of the pit length, at 150mm down from entry of pit (the height where the struts are to be secured)

Note that the struts can be installed under either the short or long sides of the flow diverter



- 2 Mark the position of the holes for the L-brackets, based on the centre mark

- 3 Using an 8mm masonry drill bit drill holes for the insertion of the Dyna Bolts (4 holes total, 2 per strut)



- 4 Attach **L-brackets** with Dyna Bolts to the pit wall (4 locations)



- 5 Align **T-strut** onto L-brackets and secure with pop rivets, repeat for second strut



Flow Diverter Install

- 1 Measure the internal dimensions of the pit at the height at which the plastic is to sit. If necessary, trim **flow diverter** panels to fit internal dimensions (add an additional 20mm each side to ensure tight pressure fit)



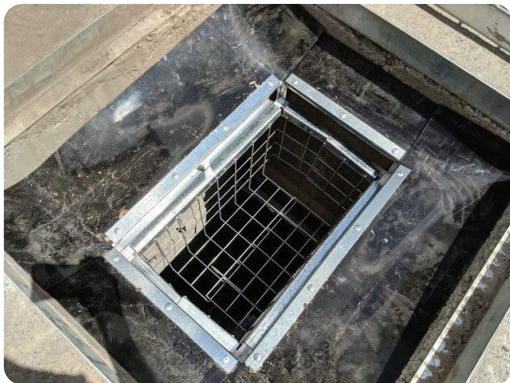
- 2 With the plastic bent slightly upwards (10-20mm fall typical), lower the top section into the pit, guiding the unit so that it locates on the T Sections struts



- 3 Drill a 5mm hole through the flow diverter and into the strut for each T-strut, and secure the flow diverter to the T-strut with a pop rivet. *NOTE: if your OceanGuard requires a Filtration Cage, this step can be skipped and addressed as part of the Filtration Cage Installation*

Filtration Cage Install (if required)

- 1 Lower the **filtration cage** through the flow diverter until the lip of the cage sits on the internal lip



- 2 Drill a 5mm hole through the flow diverter, filtration cage lip and into the strut for each T-strut, and secure the flow diverter to the T-strut with a pop rivet

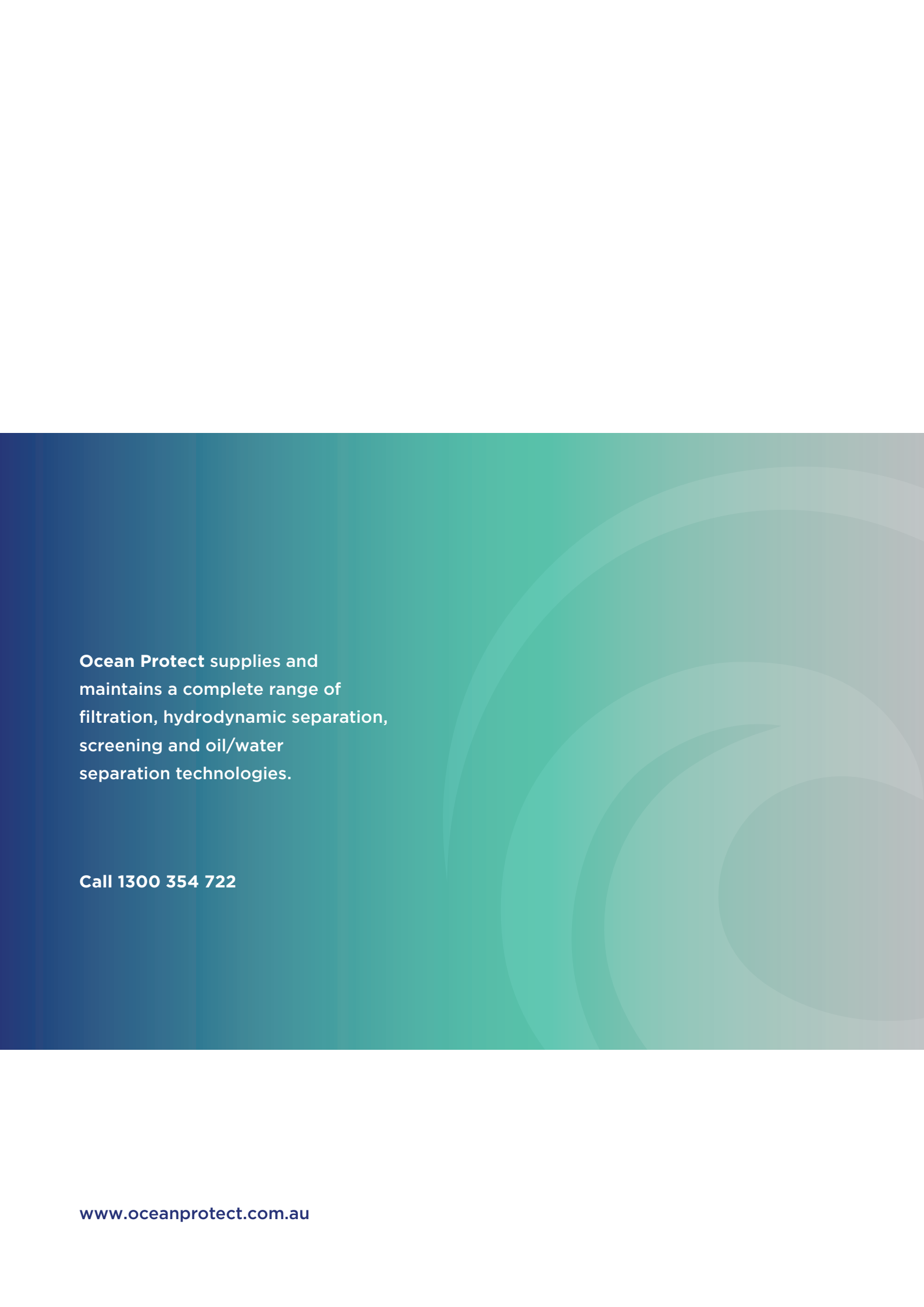
Filtration Bag Install

- 1 Open the **split ring** by pulling apart at the connection point and thread the **filtration bag** onto the stainless steel split ring



- 2 Lower the bag into the pit ensuring and pull the internal filter mesh downwards to ensure a secure fit with the top section





Ocean Protect supplies and maintains a complete range of filtration, hydrodynamic separation, screening and oil/water separation technologies.

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