



The New OceanGuard – stopping plastic waste with plastic waste

Ocean Protect webinar by Warren Jones, Michael Wicks & Brad Dalrymple
13th July 2023

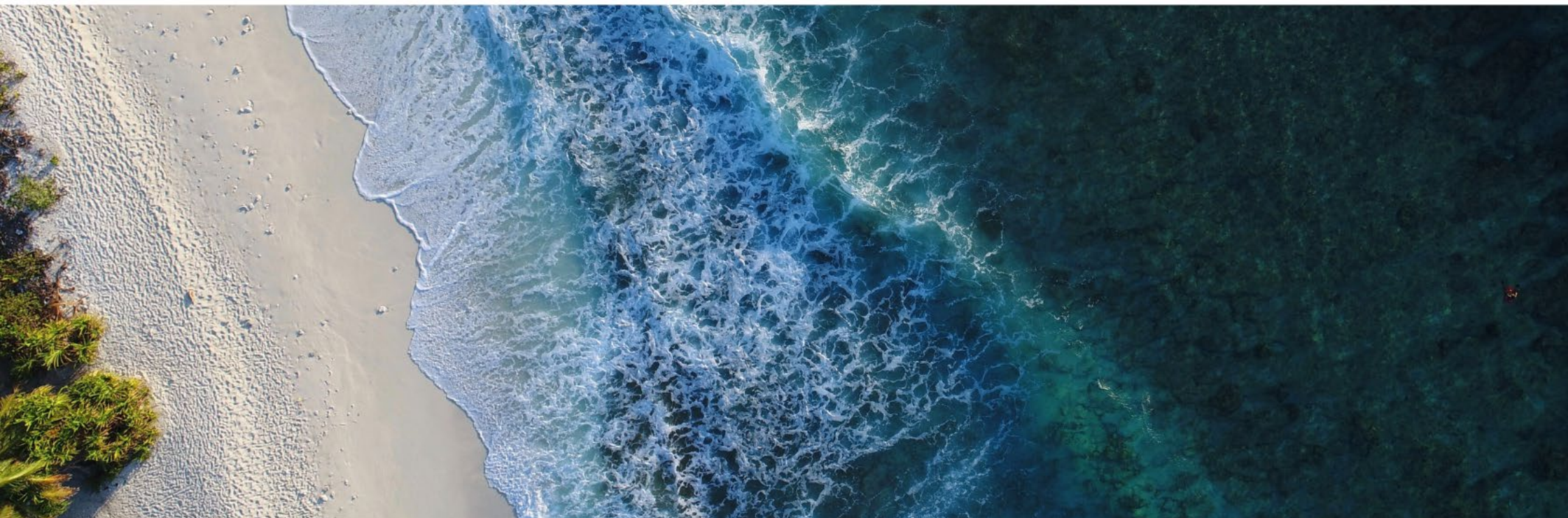
An aerial photograph showing a sandy beach on the left, with green coastal vegetation at the bottom left. The ocean waves are breaking onto the shore, creating white foam. The water transitions from a light turquoise near the beach to a deep blue further out.

**Starts at
12:30pm AEST**



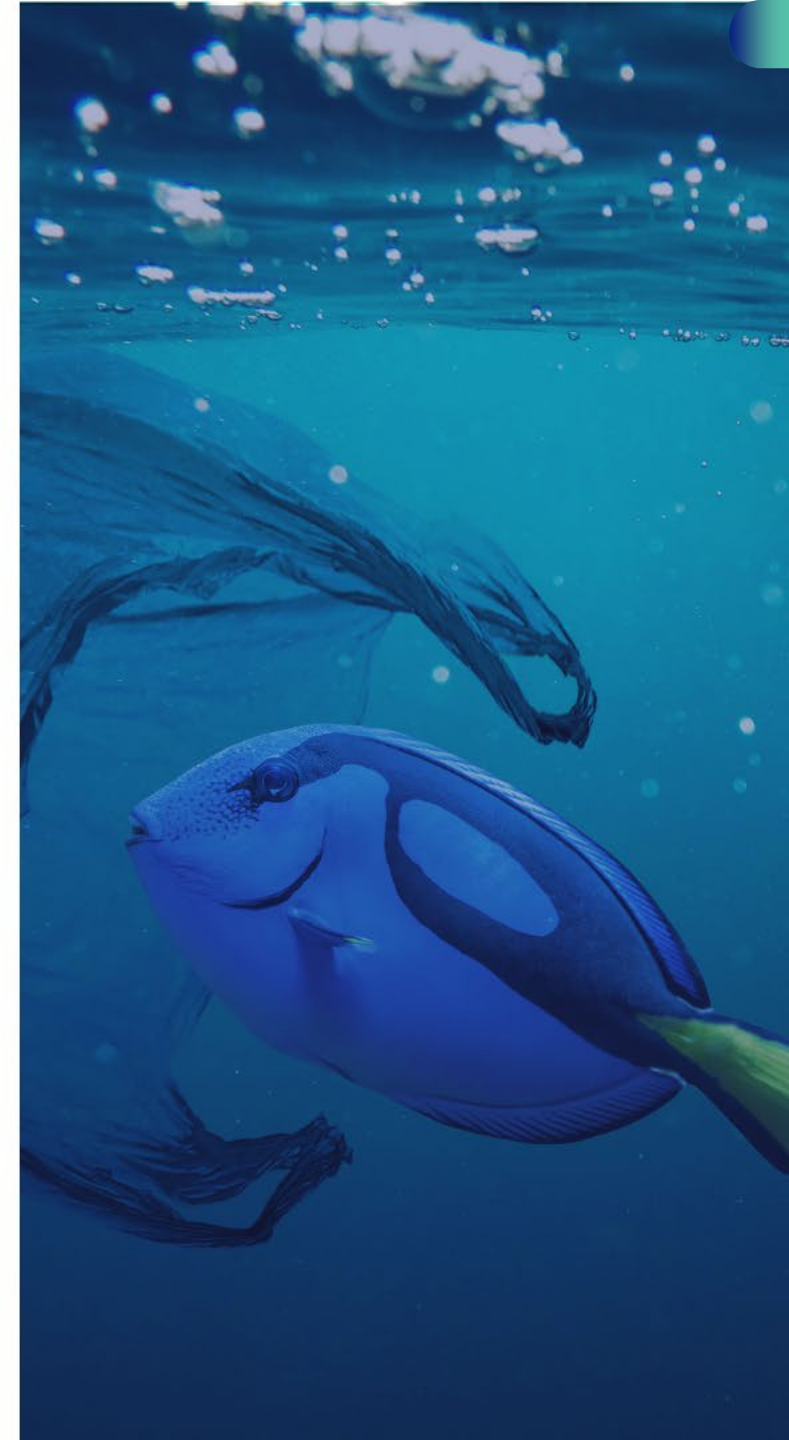
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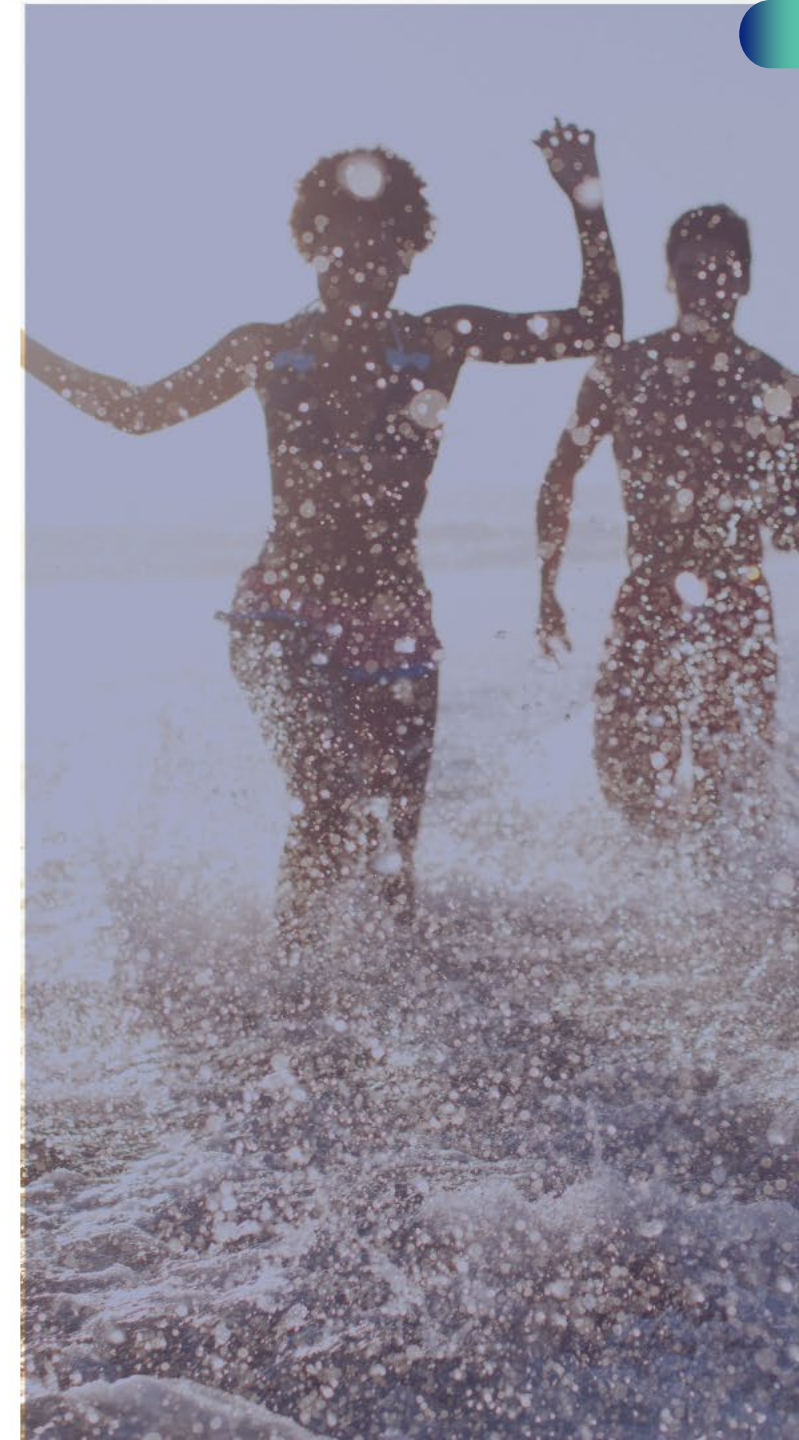
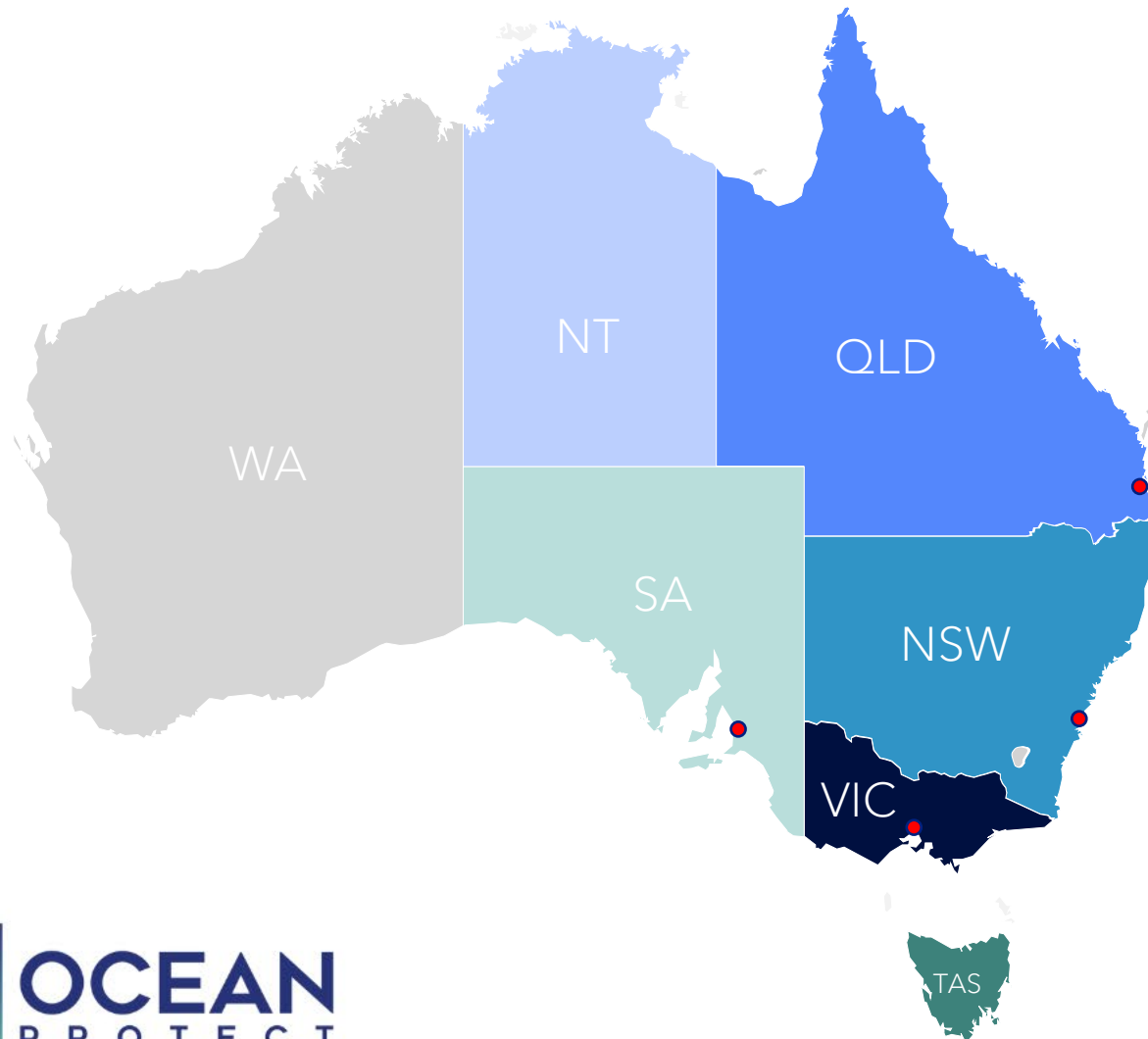


Who is Ocean Protect?

- ④ We stop pollution entering waterways
- ④ 21 years in Australia
- ④ 50,000+ assets
- ④ Servicing 10,000+ filters
- ④ Stopped 16,700+ tonnes of pollution (8+ tonnes every day)



Regions



Key pillars

- ④ Education & advocacy
- ④ Design & install
- ④ Maintenance
- ④ FMP (leasing)
- ④ Products



Education & Advocacy

- ☉ School programs
- ☉ Events
- ☉ Webinars
- ☉ Podcast
- ☉ Associations
- ☉ Political lobbying



Previous Webinars



Introducing the StormFilter PFAS

This webinar, held on 10th June 2023, introduced Ocean Protect's latest innovation – the StormFilter PFAS technology. Per and polyfluoroalkyl substances (PFAS) are a group of manufactured persistent organic chemicals that have been developed and used since the 1940s. The use and application of PFAS has previously been widespread, particularly in aqueous film forming foams for fire-fighting (and associated training) at many military, airport and fire training facilities. The environmental management of PFAS is a high priority for environmental regulators within Australia and globally. The StormFilter PFAS technology is an innovation to our StormFilter technology, which is comprised of one or more structures that house rechargeable, media-filled cartridges that trap particulates and adsorb pollutants from stormwater runoff such as total suspended solids, hydrocarbons, nutrients, metals, and other common pollutants – with over 30,000 installations in Australia to date. The StormFilter PFAS technology, however, utilizes a media blend specifically designed and sized to remove PFAS.

[Read More](#)

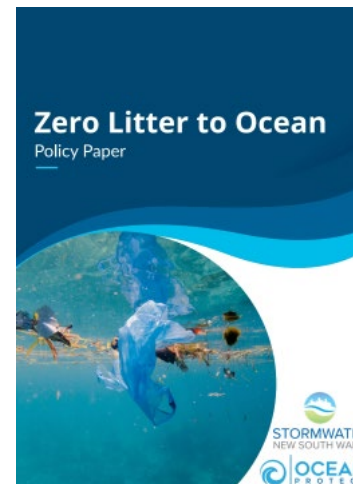
[Downloads](#)



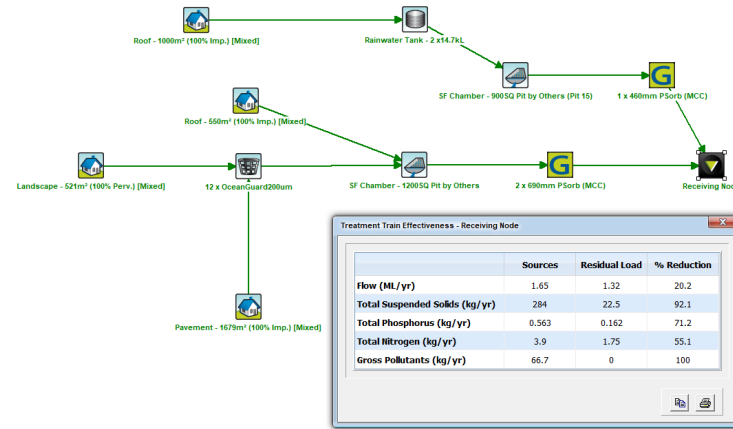
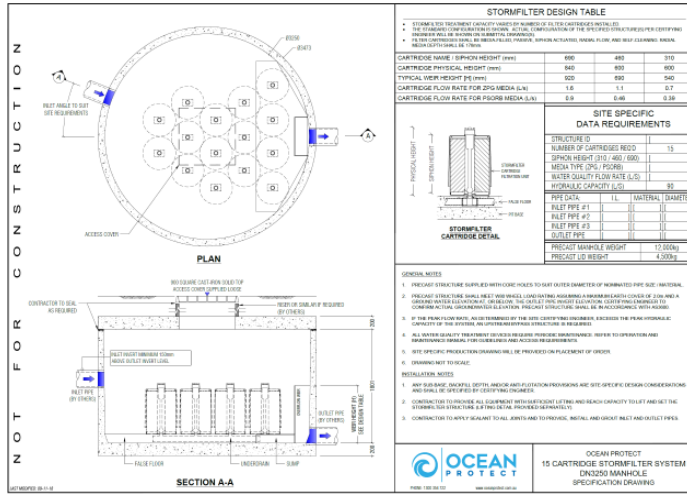
Filtrera biofiltration systems in the 'real world'

Are you keen to see and discuss 'real world' case studies of Filtrera biofiltration systems? Then, please watch this recording of Ocean Protect's webinar 'Filtrera biofiltration systems in the 'real world'', held on 18 May 2023.

Over the last five years, many Filtrera® biofiltration systems have been integrated into new 'water sensitive' urban development projects. In particular, this is often due (at least in part) by the significantly smaller area they require (typically 0.3% of upstream area) relative to conventional biofiltration systems (that use 'sandy loam' media, and often require 3 to 5 times more land) and the growing body of evidence demonstrating their performance and



Design & Install



Maintenance

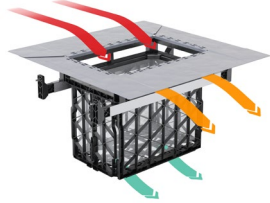


Facilities Management Plan

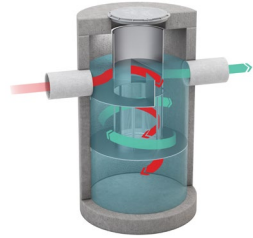
- ④ Complete turnkey solution
- ④ Full warranty of treatment system
- ④ Ensures system functionality
- ④ Long-term budget clarity



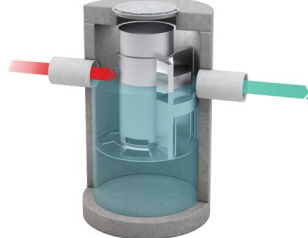
Products



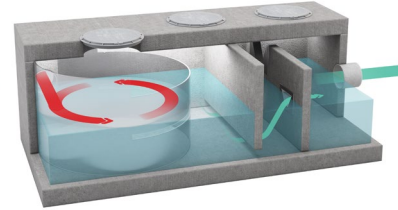
OceanGuard®



OceanSave®

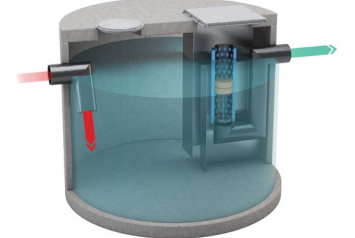


Cascade®



Vortechs™

ALL GPTs



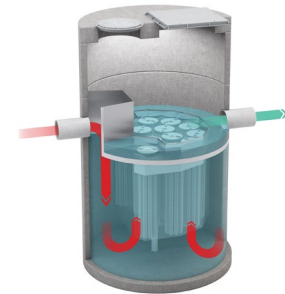
ESK®



StormFilter®



Filterra®



Jellyfish®

Our next webinar

- ② "Five years of treatment performance monitoring for a high flow rate biofiltration system at Western Sydney, Kingswood, NSW"
- ② Thursday, 3rd August, 12:30pm (AEST)
- ② <https://oceanprotect.com.au/webinars/>



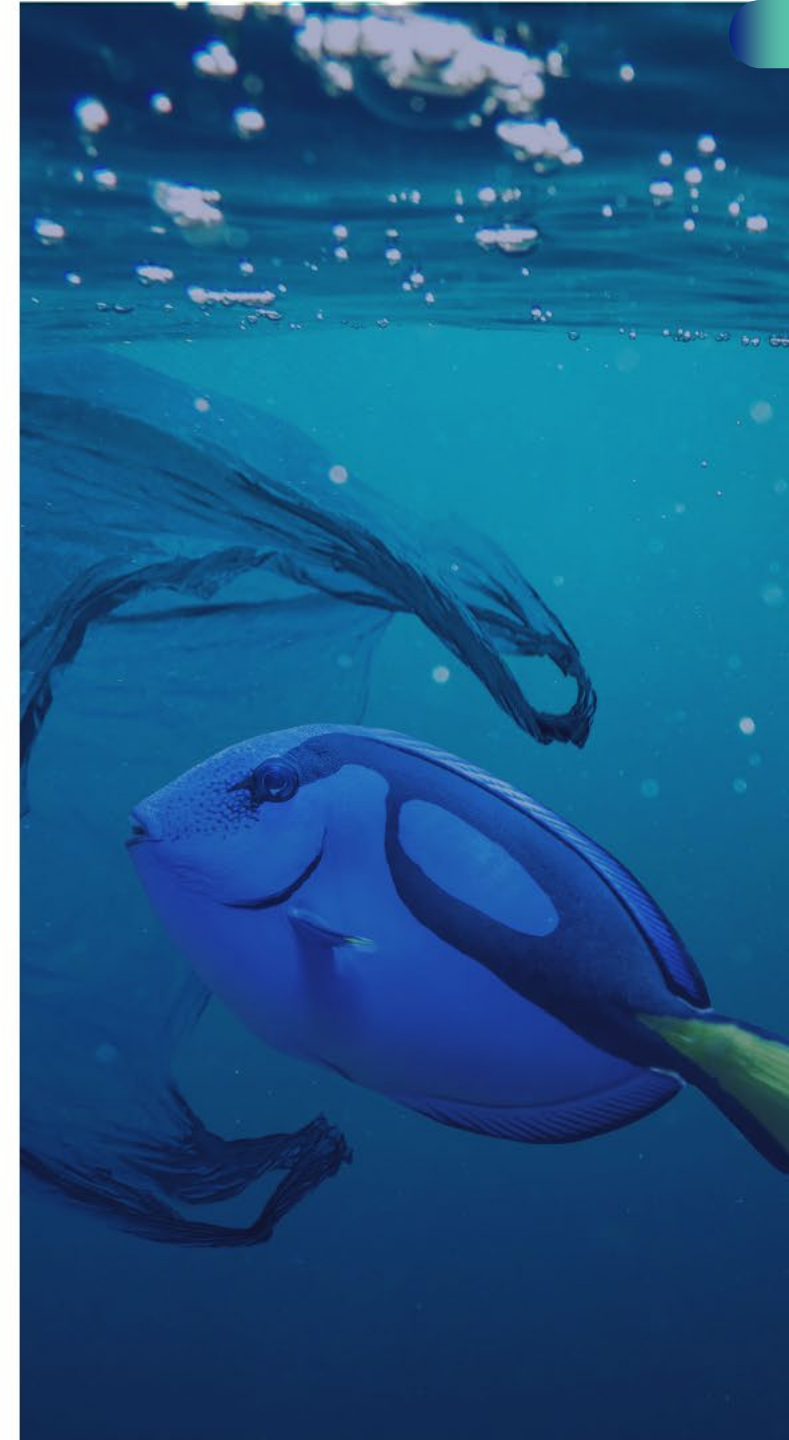
Webinar after that ...


- ④ "Ensuring widespread maintenance of Water Sensitive Urban Design assets"
- ④ Wednesday, 23rd August, 12:30pm (AEST)
- ④ <https://oceanprotect.com.au/webinars/>



Reminders

- ④ Please put all questions in the 'Q&A' panel
- ④ The slides & recording will be made available at www.oceanprotect.com.au/webinars

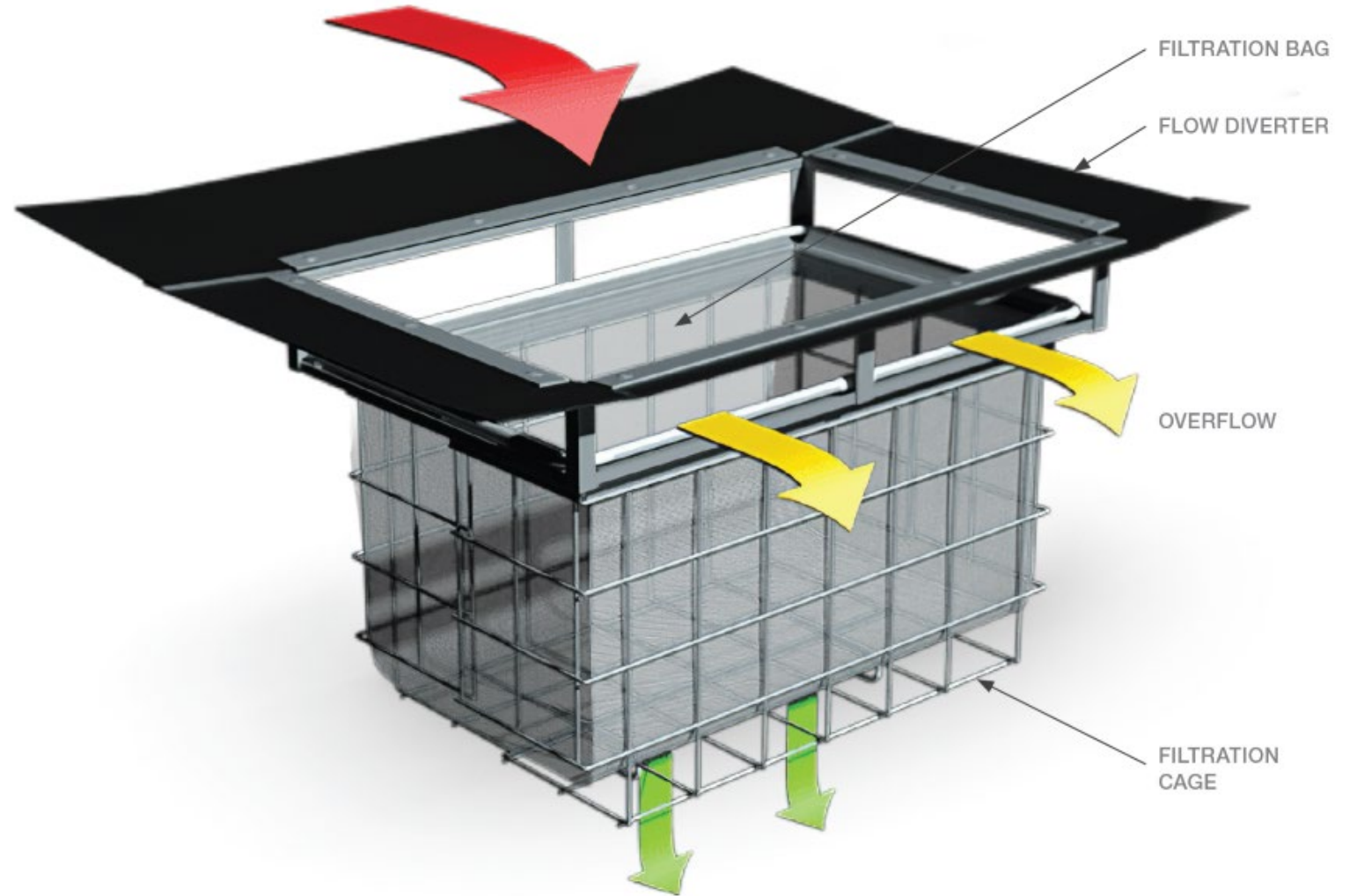


The background is a deep blue underwater scene. Numerous bubbles of various sizes are visible, rising from the bottom left towards the top right. Sunlight rays penetrate the water from the upper right, creating a shimmering effect. The overall texture is fluid and dynamic.

The Current OceanGuard

What is OceanGuard ?

- ⌚ Gully pit basket
- ⌚ Integrated into pits
- ⌚ Different bag options
- ⌚ Ideal for pre-treatment



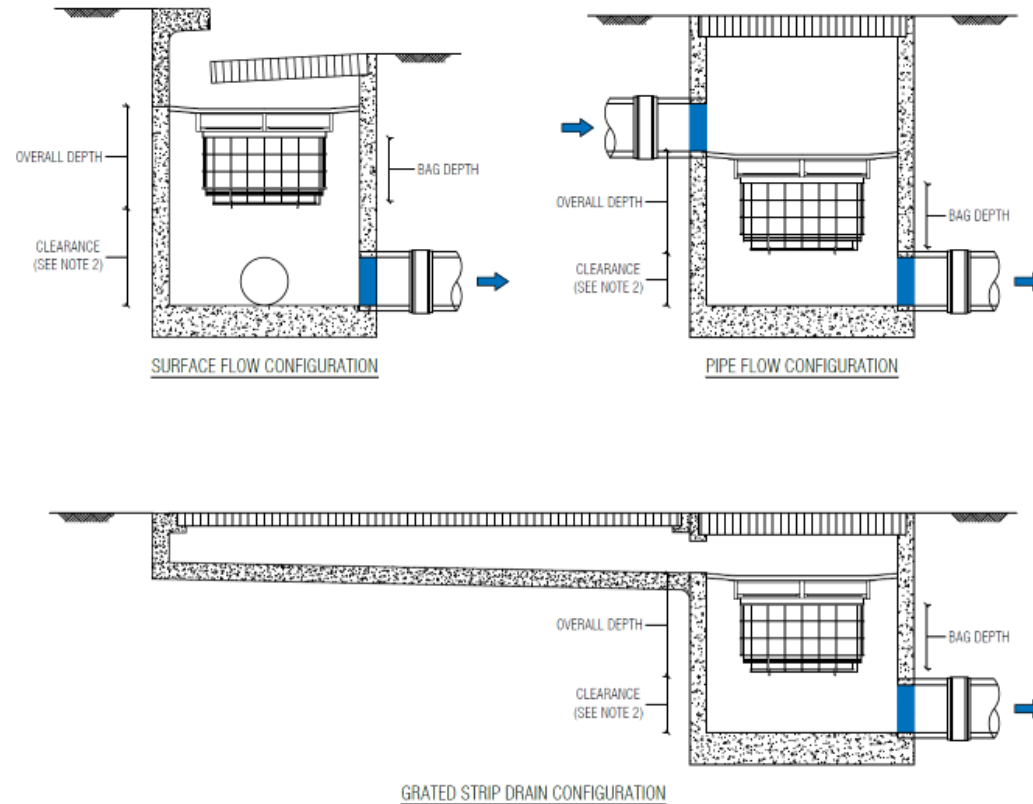
Application

- ⌚ Commercial, industrial & residential areas
- ⌚ Other projects (e.g. roads, airports)



Configuration

- ☉ Surface flow (typical)
- ☉ Pipe flow
- ☉ Grated strip drain
- ☉ 4 sizes
- ☉ 3 depths



PLAN ID	MAXIMUM PIT PLAN DIMENSIONS
S	450mm x 450mm
M	600mm x 600mm
L	900mm x 900mm
XL	1200mm x 1200mm

DEPTH ID	BAG DEPTH	OVERALL DEPTH
1	170	270
2	300	450
3	600	750

PLAN ID	DEPTH ID			
		1	2	3
	S	■	■	■
	M	■	■	■
	L	■	■	■
	XL	■	■	■

Performance

- ④ 4 x 'real world', published studies
- ④ 2 x peer review reports
- ④ Council approved performance values



A review of the application of OceanGuard® in Australia

Date: August 2021

Maintenance



- ⌚ Manual lifting of bag & emptying
- ⌚ Can use vacuum unit
- ⌚ Replace bag (if damaged)



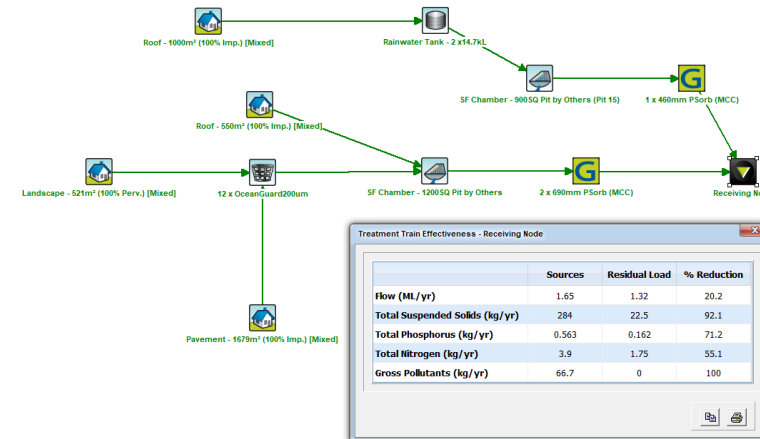
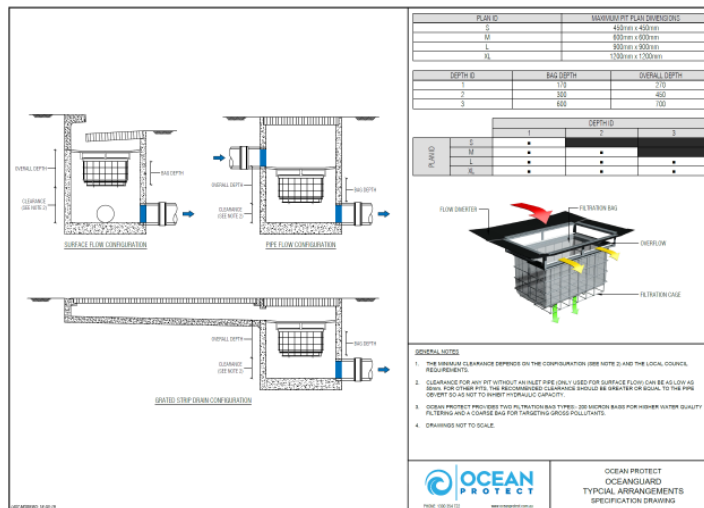
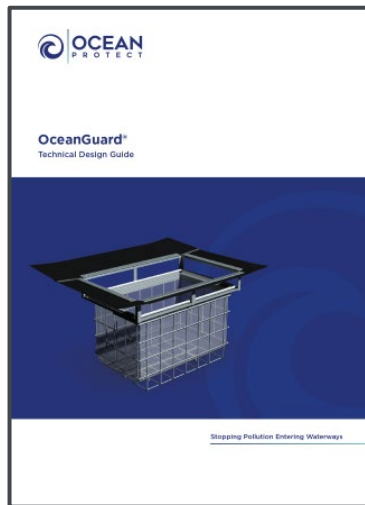
Case studies

© Over 25,000 installed in Australia

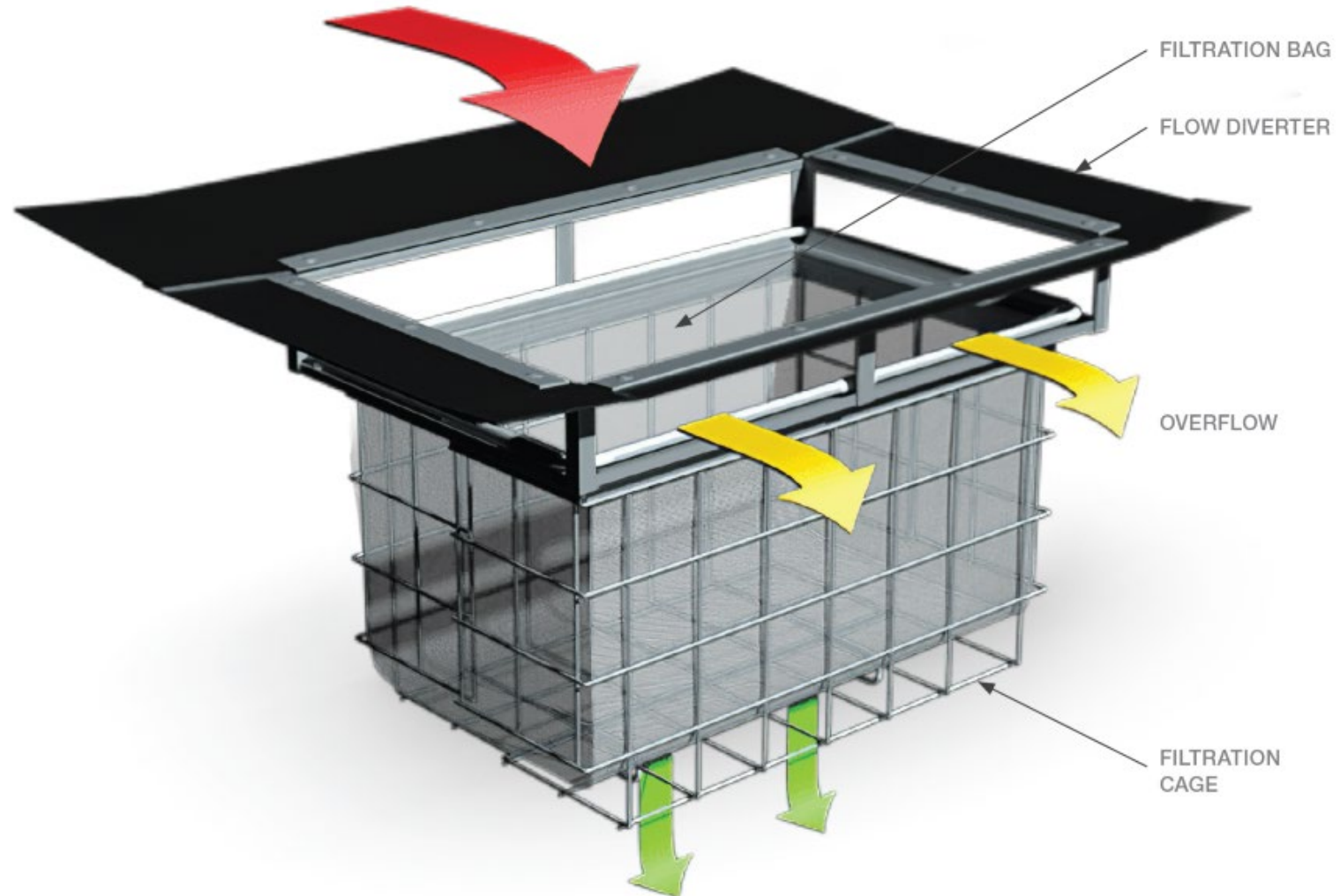


How to specify ?

- ④ <https://oceanprotect.com.au/oceanguard/> (drawings, manuals, review paper)
- ④ Contact Ocean Protect
- ④ OP can do MUSIC modelling & site-specific drawings (no obligation)
- ④ Identifying location(s) of drawings is OK



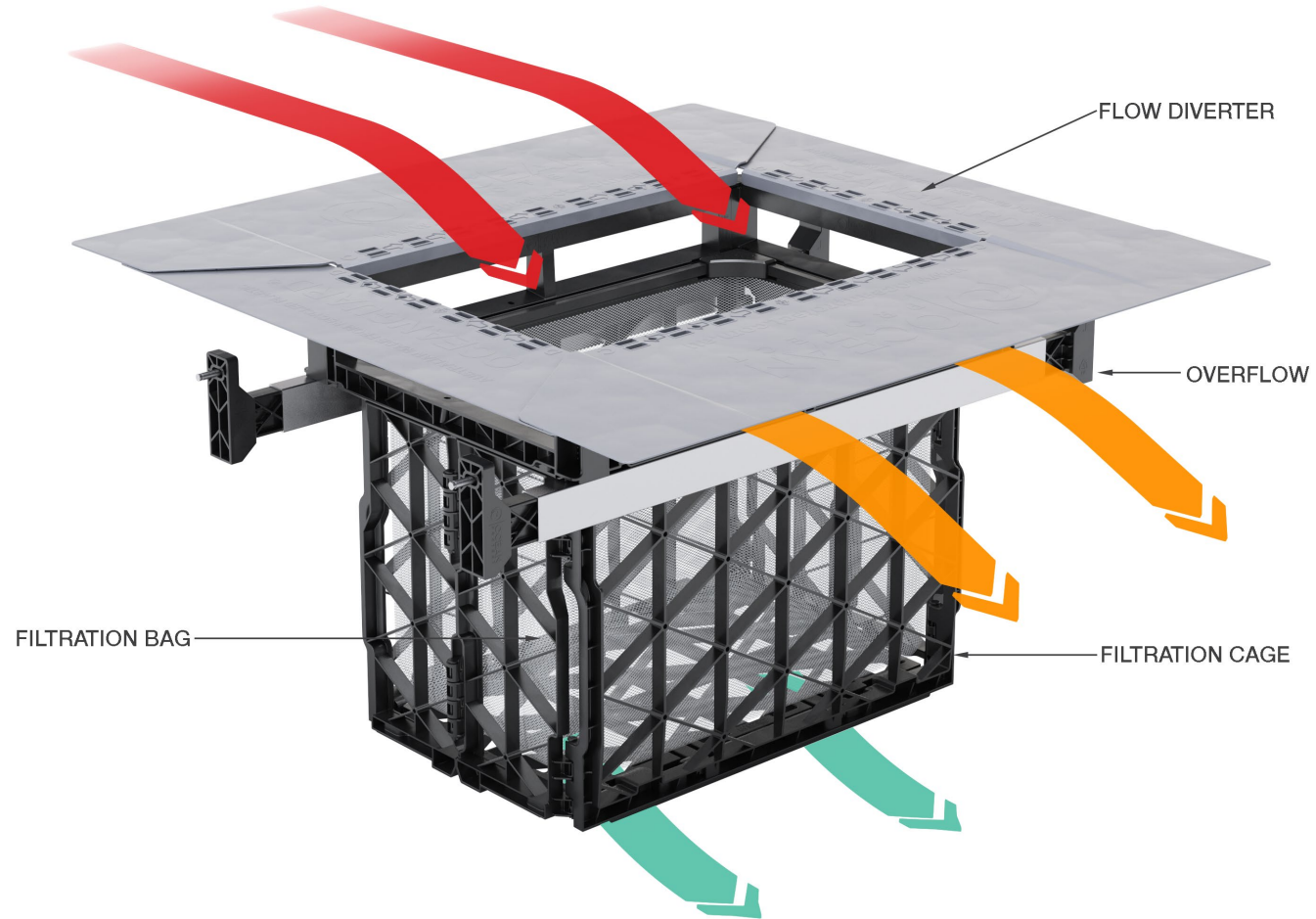
OceanGuard



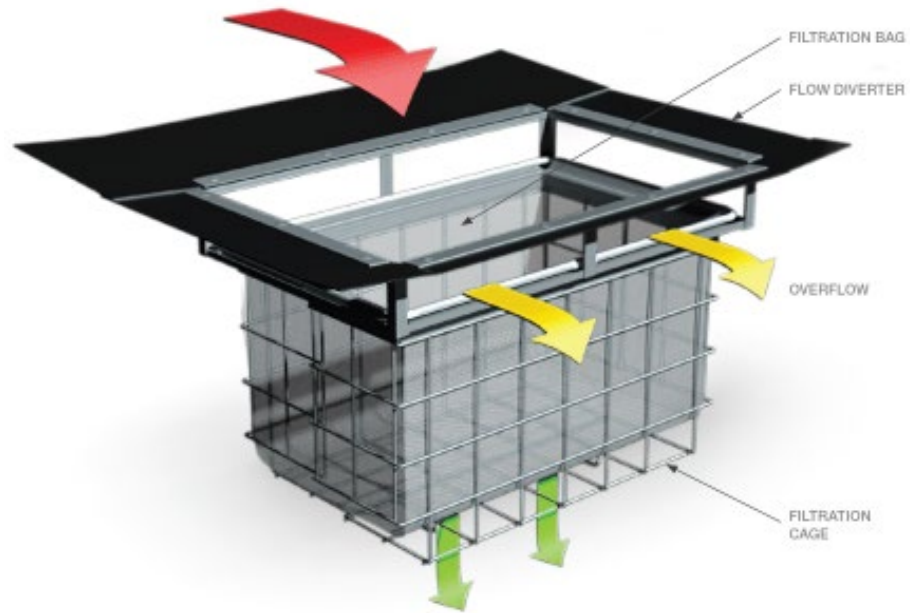
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The New OceanGuard

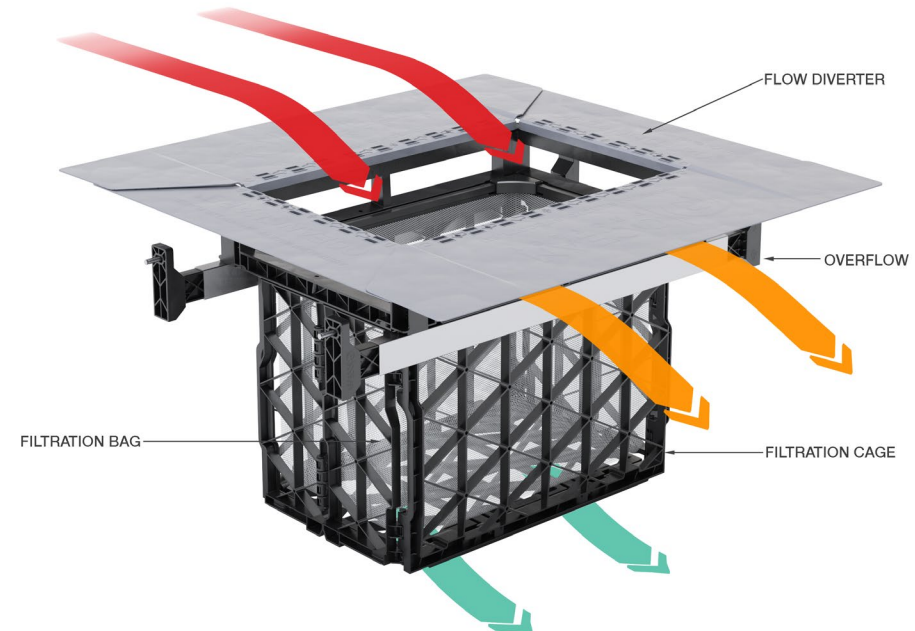
OceanGuard



Old



New



Flow diverter

Old



New

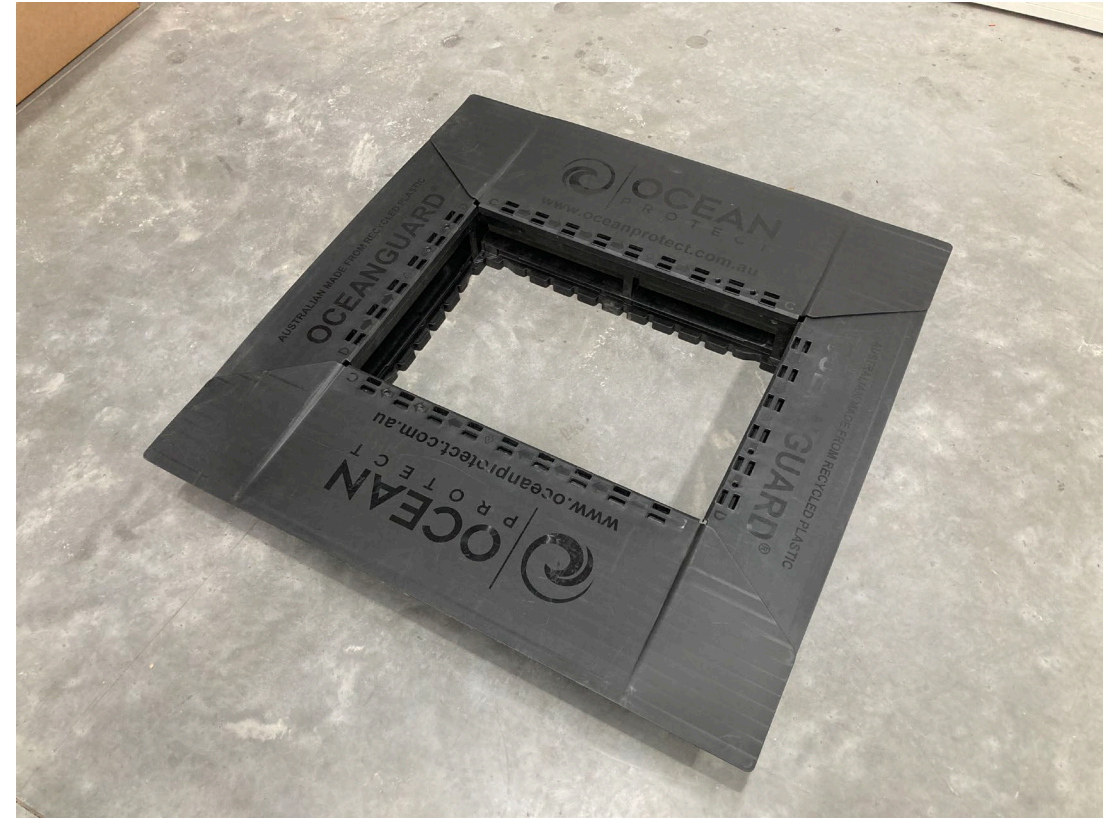


Flow diverter

Old



New



Filtration cage

Old



New



Filtration cage

Old



New



Filtration bag

Old



New



Struts

Old



New



Bolts

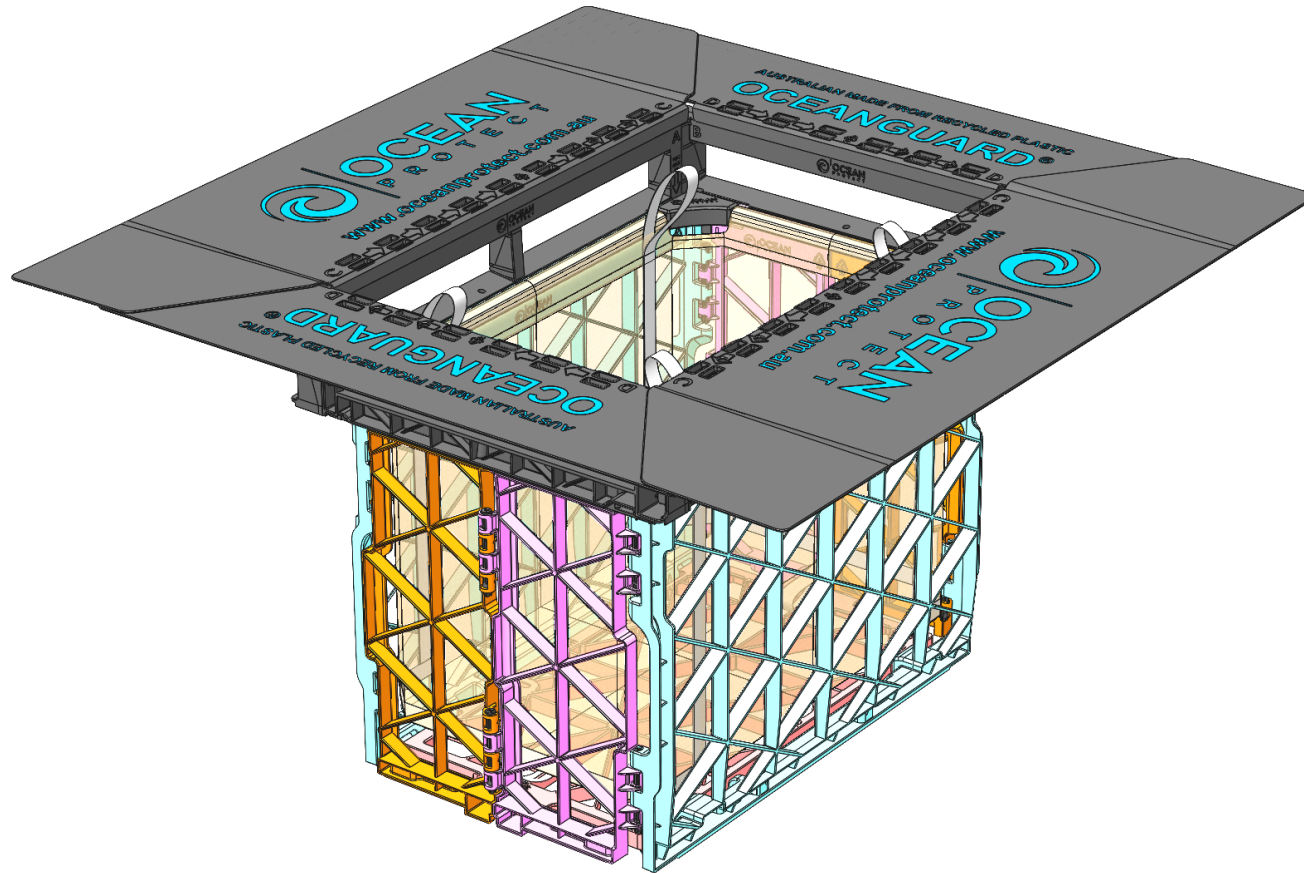
Old



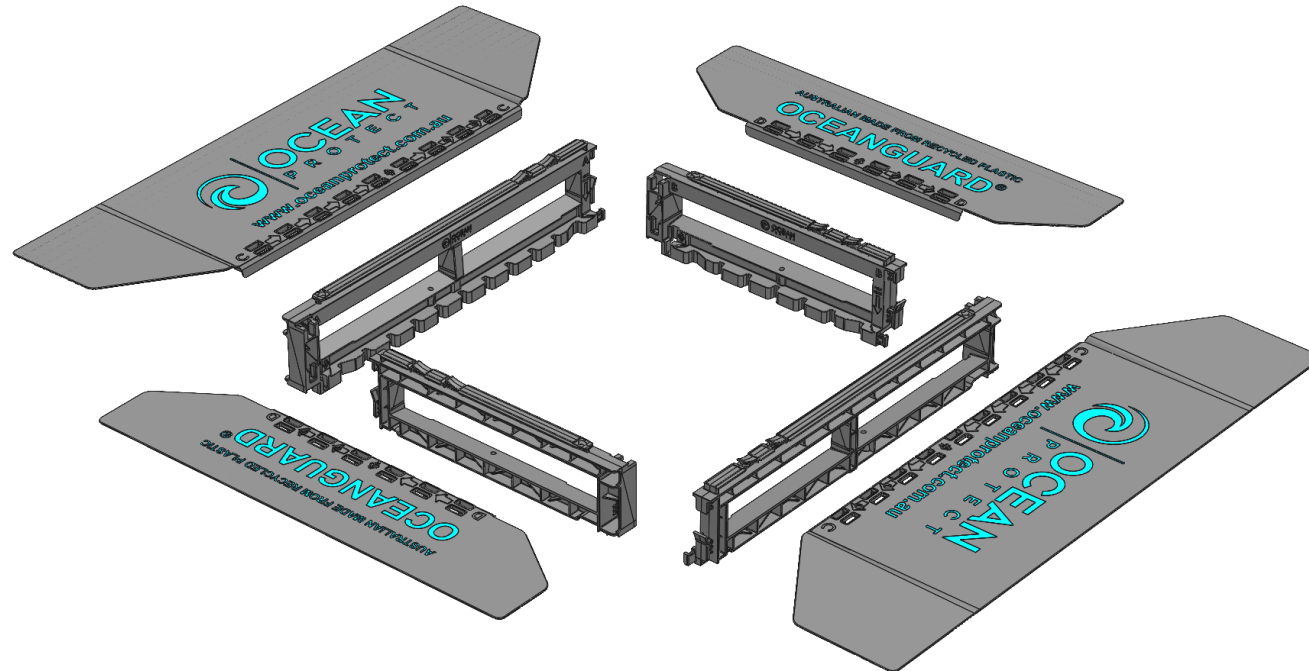
New



Ease of Assembly

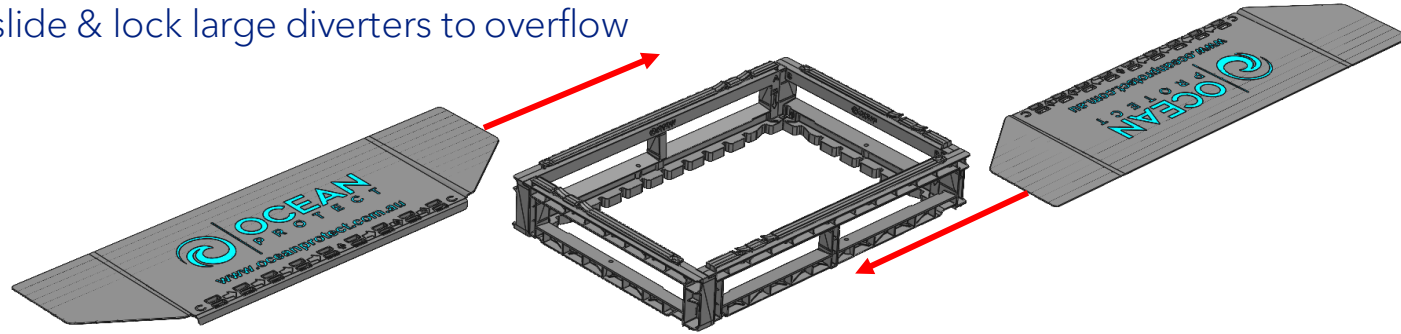


Top Assembly

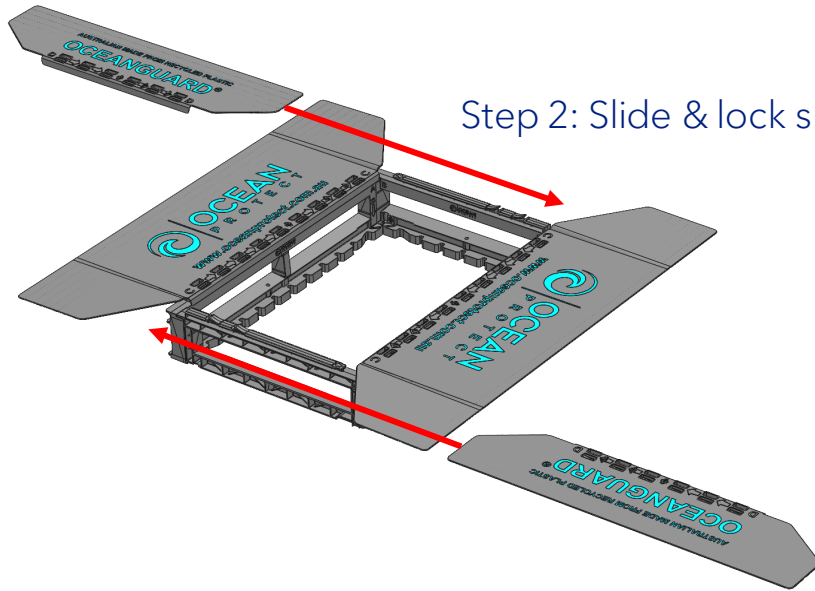


Top Assembly

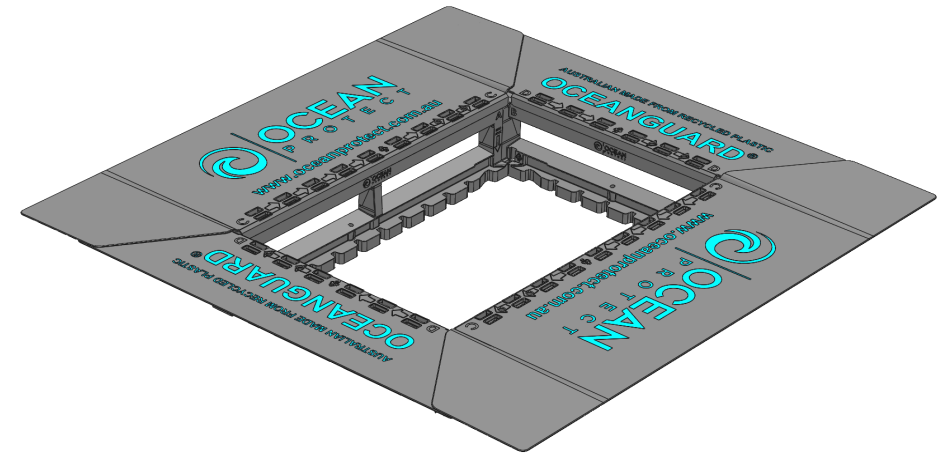
Step 1: slide & lock large diverters to overflow



Step 2: Slide & lock small diverters to overflow.

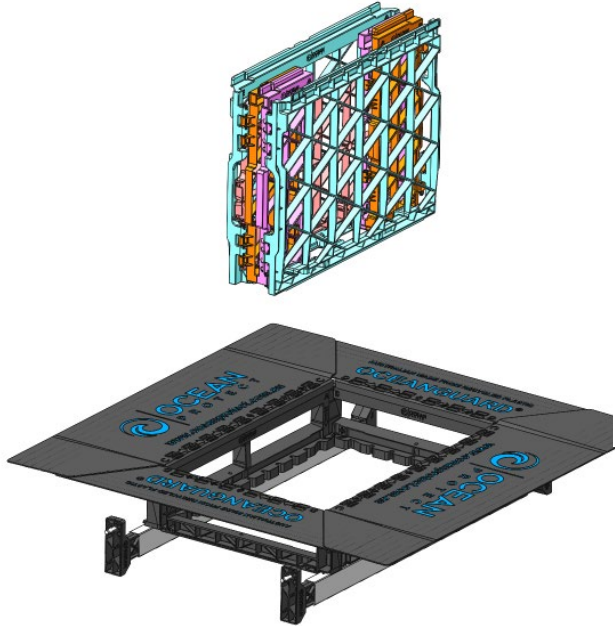


Completed sub assembly

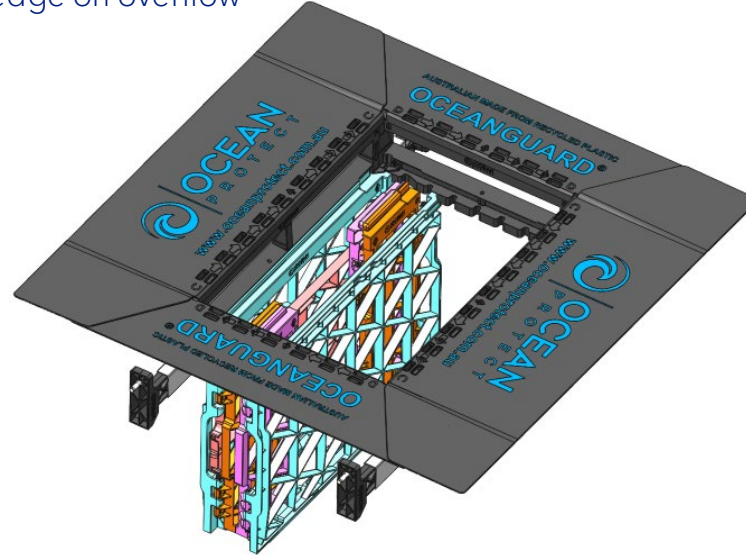


Cage Assembly

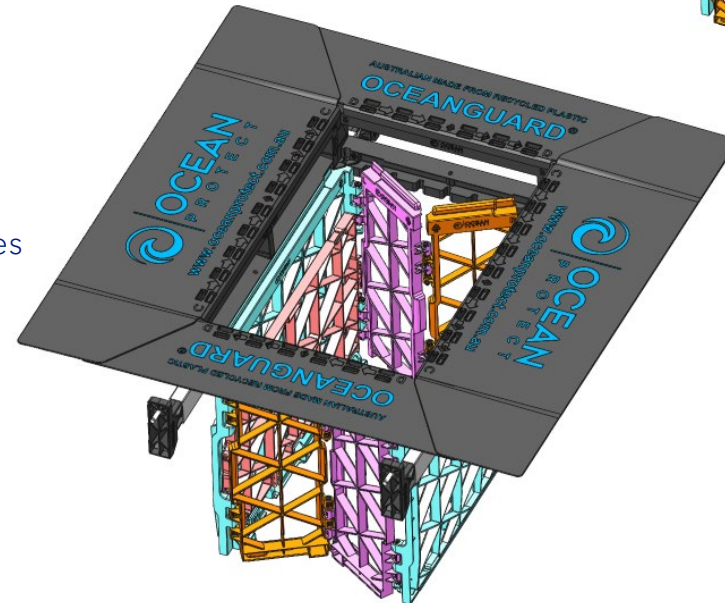
Step 1.
Position collapsed cage
through opening



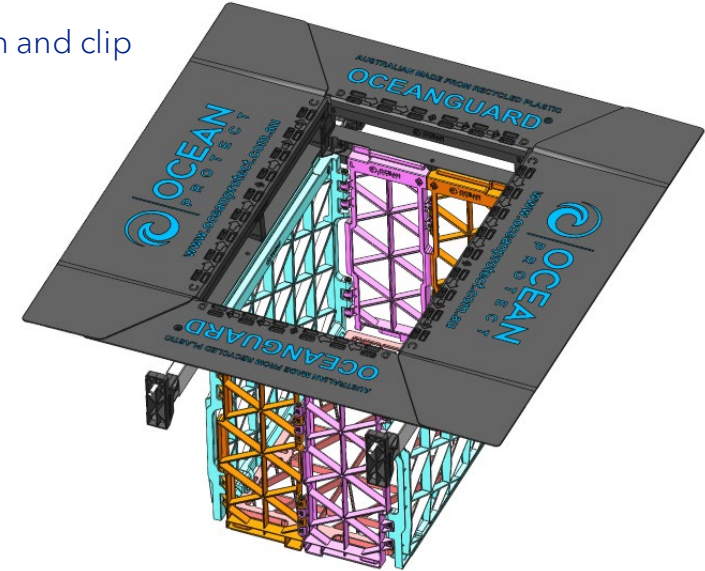
Step 2.
Locate one side of cage into
ledge on overflow



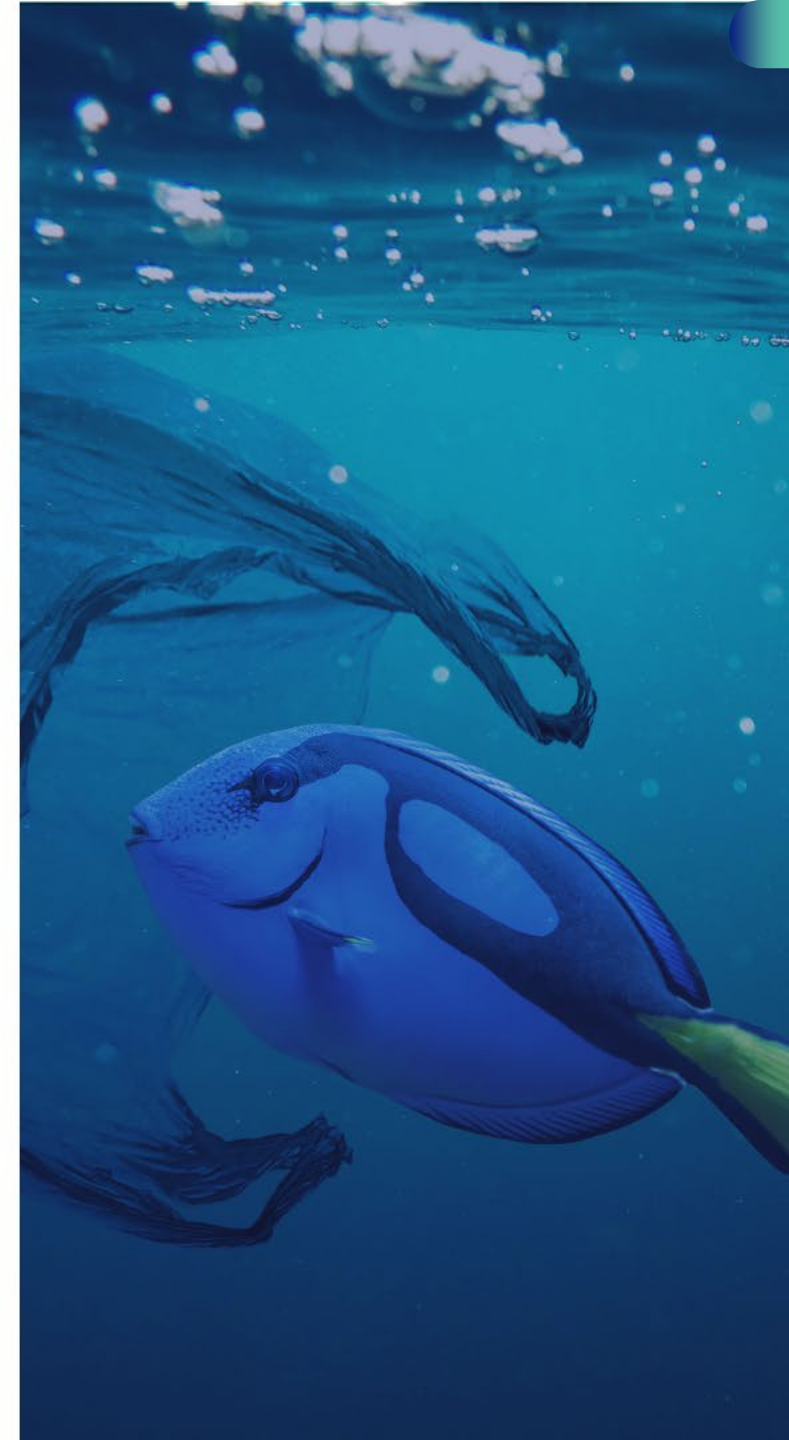
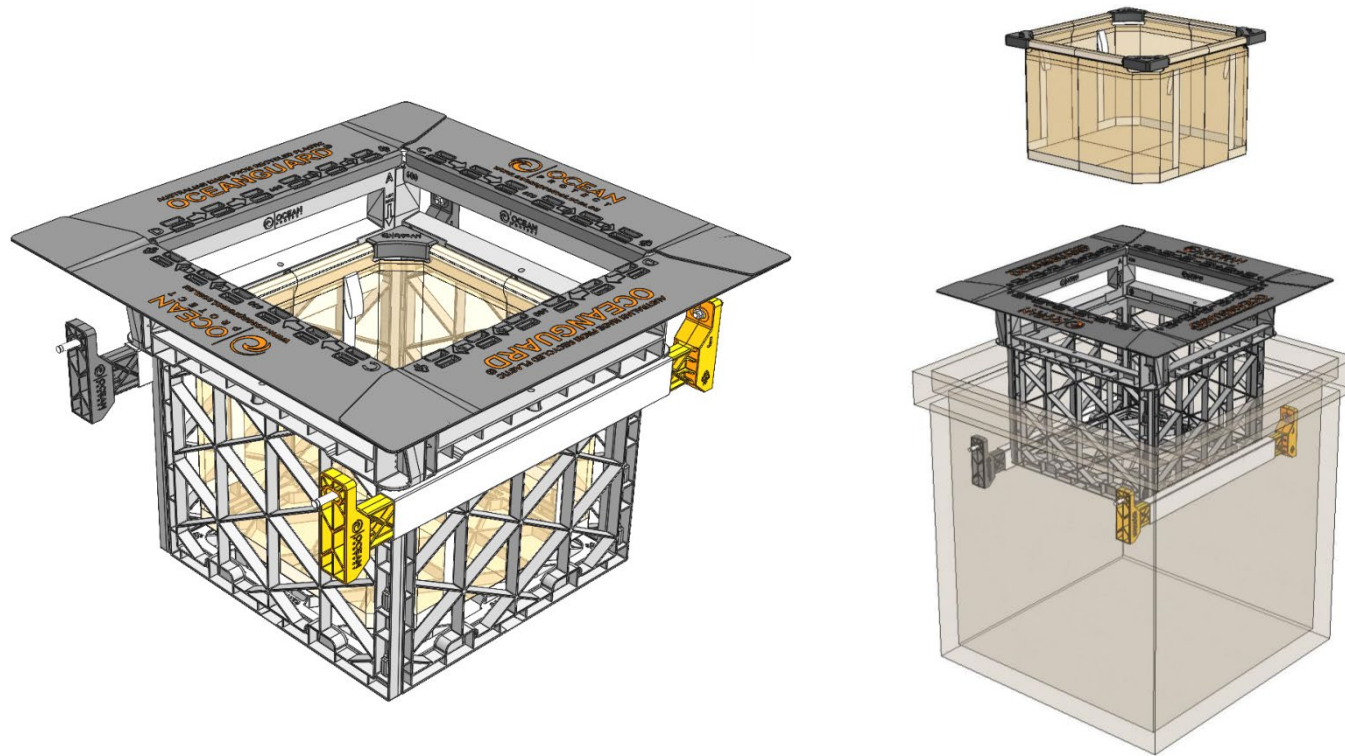
Step 3.
Expand cage sides



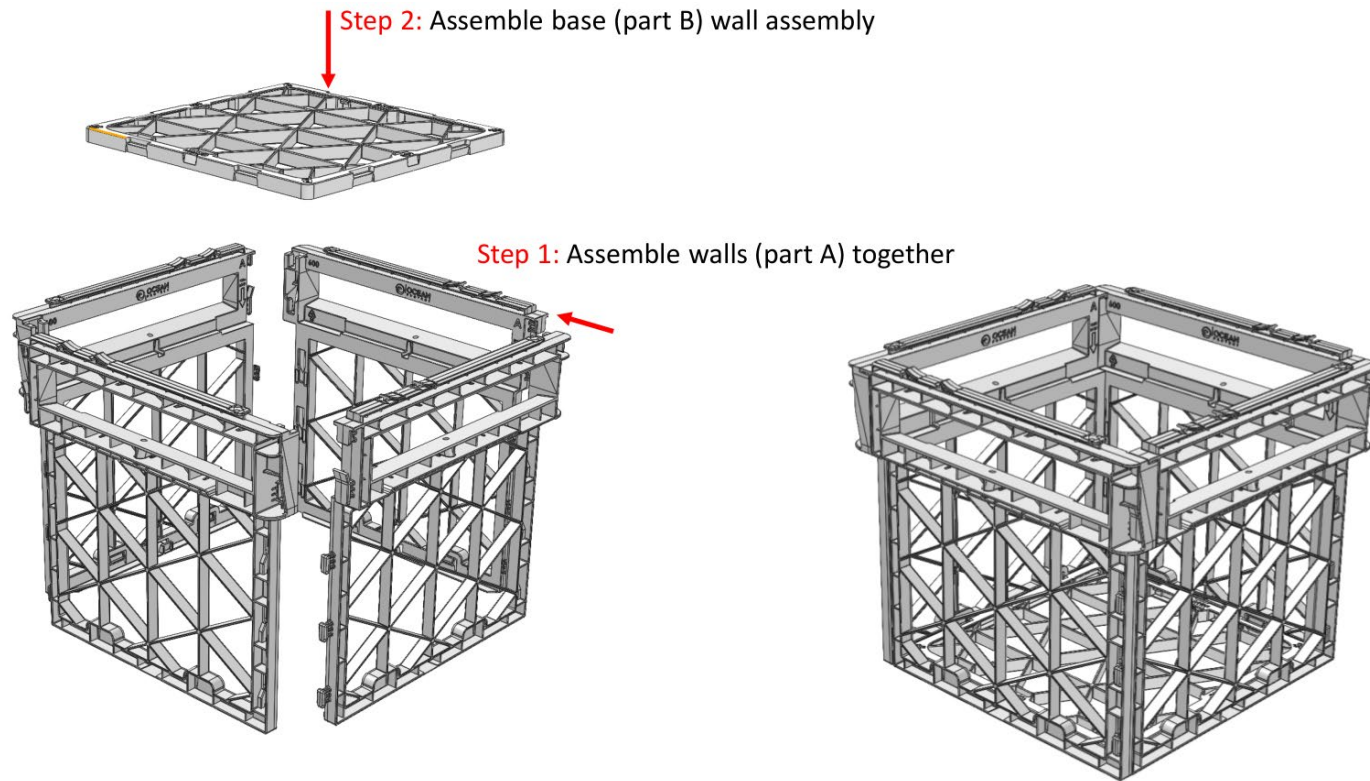
Step 4.
Fold base down and clip
into place



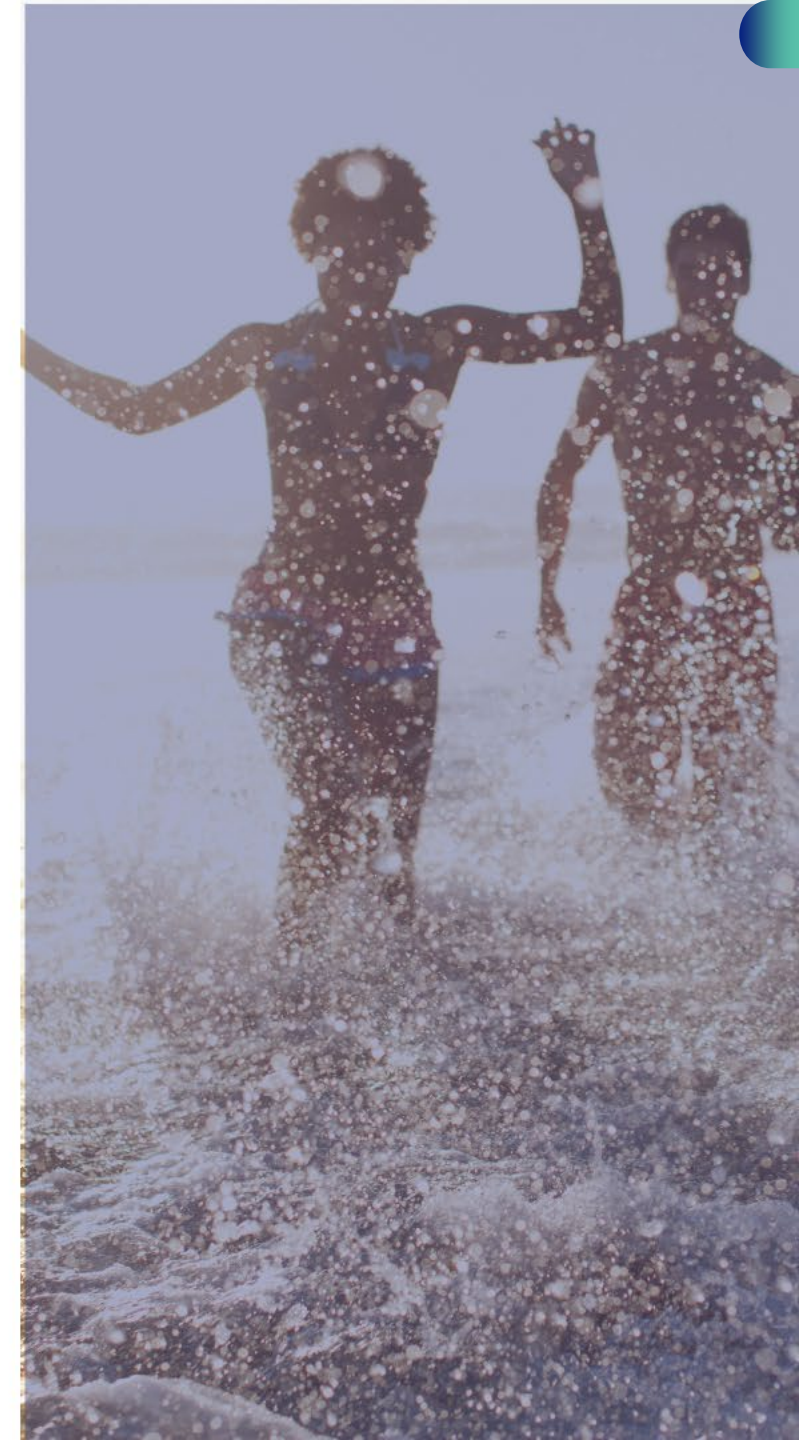
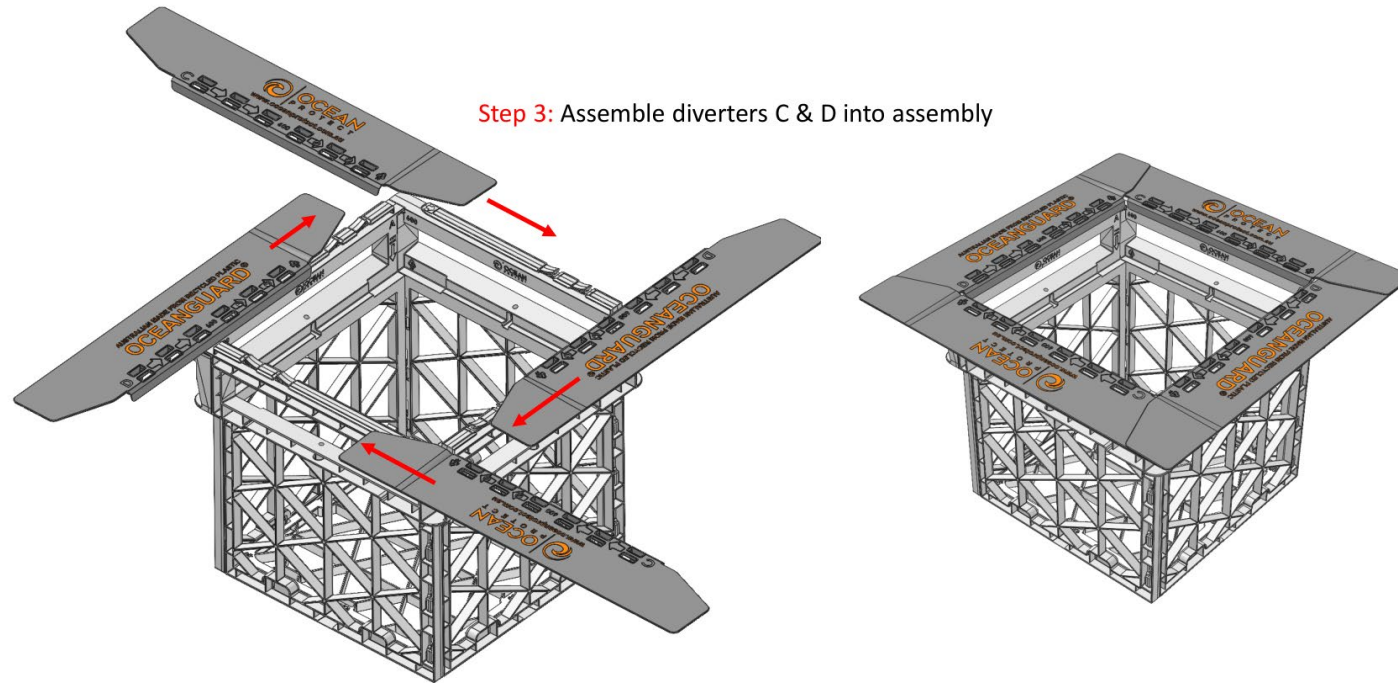
Medium & Small OceanGuard



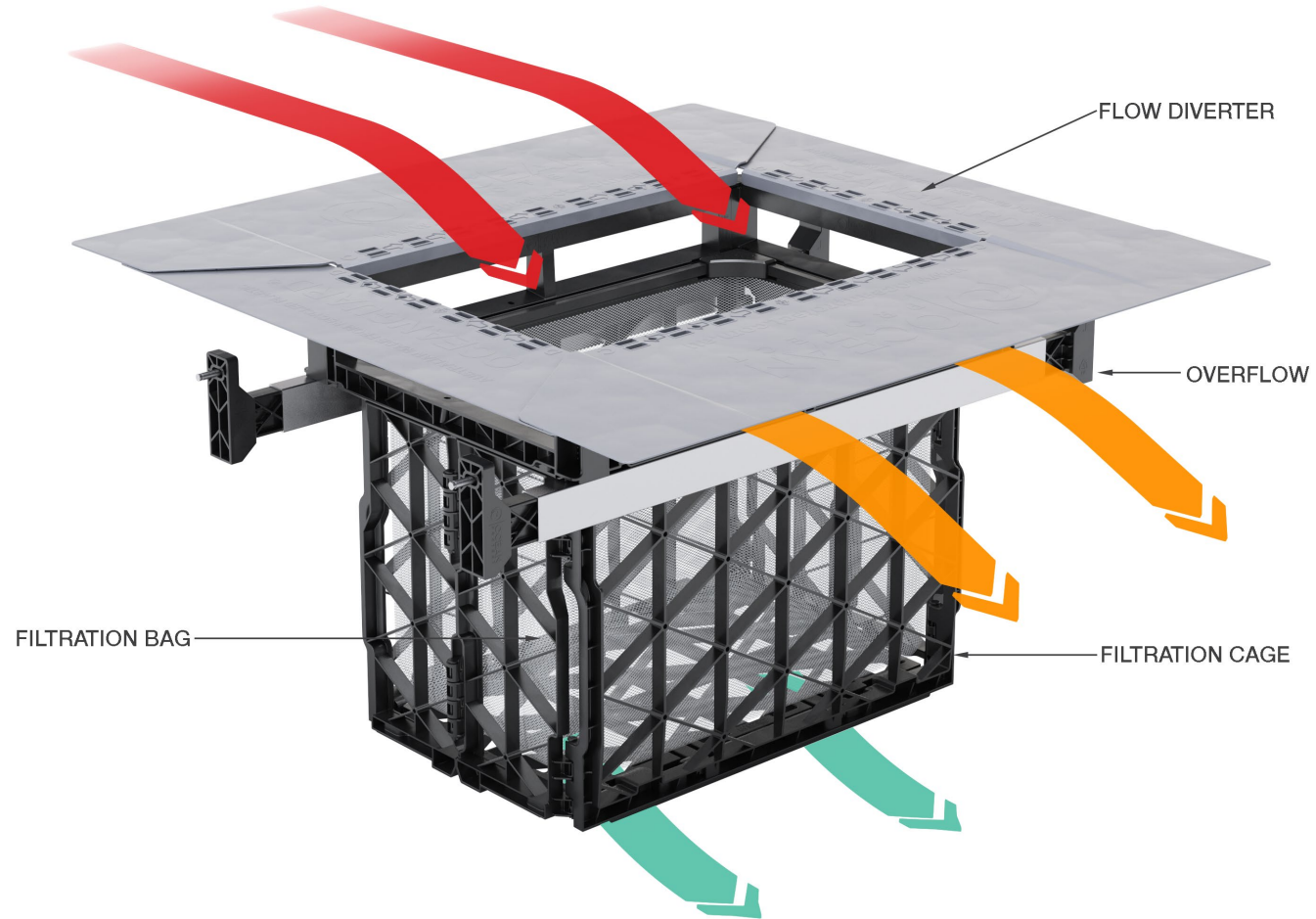
Medium & Small OceanGuard



Medium & Small OceanGuard



OceanGuard



Benefits

- ⌚ Same performance as V1
- ⌚ Lighter
- ⌚ Easier to install
- ⌚ Australian made
- ⌚ 90% made from plastic waste





www.oceanprotect.com.au

1300 354 722

THANK YOU

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