



Oil & Grit Interceptors

Technical Specifications



Engineering the future of wastewater

Austin Bluewater Oil & Grit Interceptors are the technical solution for the separation of oil & grit from stormwater runoff at fuel stations, car parks, commercial spaces, contracting environments and industrial wash down bays.

Purpose

Oil and grit interceptors are an effective and simple solution to separate and store grits and all types of oils from lightly contaminated storm water and wash-down water. They are required for the separation of heavy solids (sand & grit) and floating hydrocarbons from storm water or wash down areas. They are typically used in industrial and commercial applications where there is potential risk for contamination from hydrocarbon products into waterways.

The multi chambered treatment tank is installed close to the collection point (to ensure the oil reaches the interceptor before it emulsifies or pollutes the area) allowing for the storm water / wash down water to flow into the settlement chambers prior to entering a storm water lateral or disposal system.

The Austin Bluewater Oil & Grit Interceptor is not recommended to be used in applications where large spills of hydrocarbon based materials are a possibility. Please seek professional advice or ensure a suitable engineered solution is provided for large scale applications.

Suitable Applications

The Austin Bluewater Oil & Grit Interceptor can be used in the following applications:

- Driveways
- Loading bays
- Small sealed carparks
- Commercial carwash facilities
- Wash down bays
- Depots or terminals
- Pre-treatment to a retention tank or pond
- Industrial yards

Features

- Multi-chambered tank design - engineered for effective grit and oil separation
- Watertight construction of tank preventing water ingress
- Manufactured using steel reinforced 45mpa commercial strength concrete
- Robust design for commercial applications
- Swift lift anchors to ensure easy manoeuvrability and cartage
- Option to customise design to suit the application including engineers PS1 for loading design.
- Options for cast iron manhole covers
- Customised options for inlet and outlet pipework
- Engineered designs for heavy duty trafficable lids

Approvals & Standards

Built to NZS 3109, Concrete Construction New Zealand Standard

Installation

Austin Bluewater Oil & Grit Interceptors are manufactured with swift lift anchors cast into the body of the tank and are designed to be lifted with chains mounted to a spreader bar.

The tank must be seated on solid compacted and levelled hard fill. The tank must also be back filled with hard fill to avoid settlement.

Ensure your chosen model allows for the correct inlet and outlet size to match the pipework you are connecting to.

Refer to our full installation guide at: www.austinbluewater.co.nz

Unit Maintenance

Your Oil & Grit Interceptor must be maintained to ensure effective interception of oil & grits. The maintenance intervals will be determined by the regularity and volume of the hydraulic loads. The concentration of contaminants will also have an effect as to how often the system will need servicing. These factors will vary depending on the application. Regular removal of trapped grits and oils will ensure this system is always performing at its best.

In all cases, a formalised routine of checking the level of settled grit on the bottom of each chamber and identifying the volume of settled oils on the service of the tank will ensure the correct level of maintenance is determined for your application.

Austin Bluewater recommend that after installation, the system is checked monthly to determine the required level of maintenance.

When the oil retention capacity has reached 40-50%, the chambers must be emptied. All chambers need to be sucked out, removing the settled grits, water and the remaining oils & hydrocarbon pollutants.

The trapped pollutants held within the Oil & Grit Interceptor must be disposed of in accordance with your local authority's regulations. The contents of the tank must be declared to the contracted cleaning company to ensure proper disposal.

Refill the oil and grit interceptor with fresh clean water to allow the system to begin working immediately after cleaning.

Working inside a tank has significant risks. Ensure that anyone considering entering a tank complies with all relevant 'Confined Space Entry' requirements and guidelines. Beware of gases and harmful contaminants that could be present.

Please consult with Austin Bluewater's technical team should you require further information or assistance.

Austin Bluewater Oil & Grit Interceptor Range

OG1500	1500L total capacity	100mm transfer pipework	Standard lid
OG1500HD	1500L total capacity	100mm transfer pipework	60kN rated trafficable lid
OG3300	3300L total capacity	100mm transfer pipework	Standard lid
OG3300	3300L total capacity	150mm transfer pipework	Standard lid
OG3300HD	3300L total capacity	100mm transfer pipework	60kN rated trafficable lid
OG3300HD	3300L total capacity	150mm transfer pipework	60kN rated trafficable lid
OG6500	5300L total capacity	100mm transfer pipework	Standard lid
OG6500	5300L total capacity	150mm transfer pipework	Standard lid
OG6500HD	5300L total capacity	100mm transfer pipework	60kN rated trafficable lid
OG6500HD	5300L total capacity	150mm transfer pipework	60kN rated trafficable lid

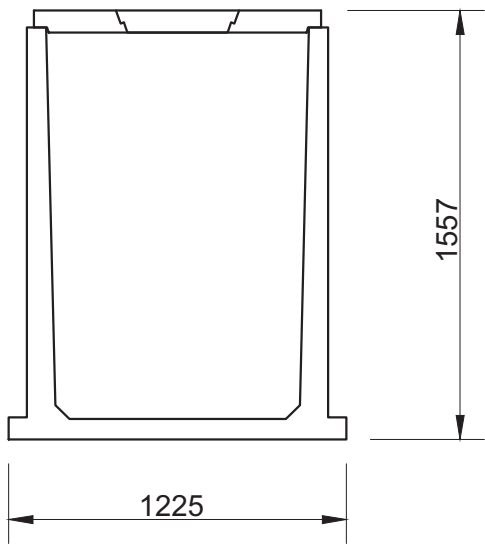
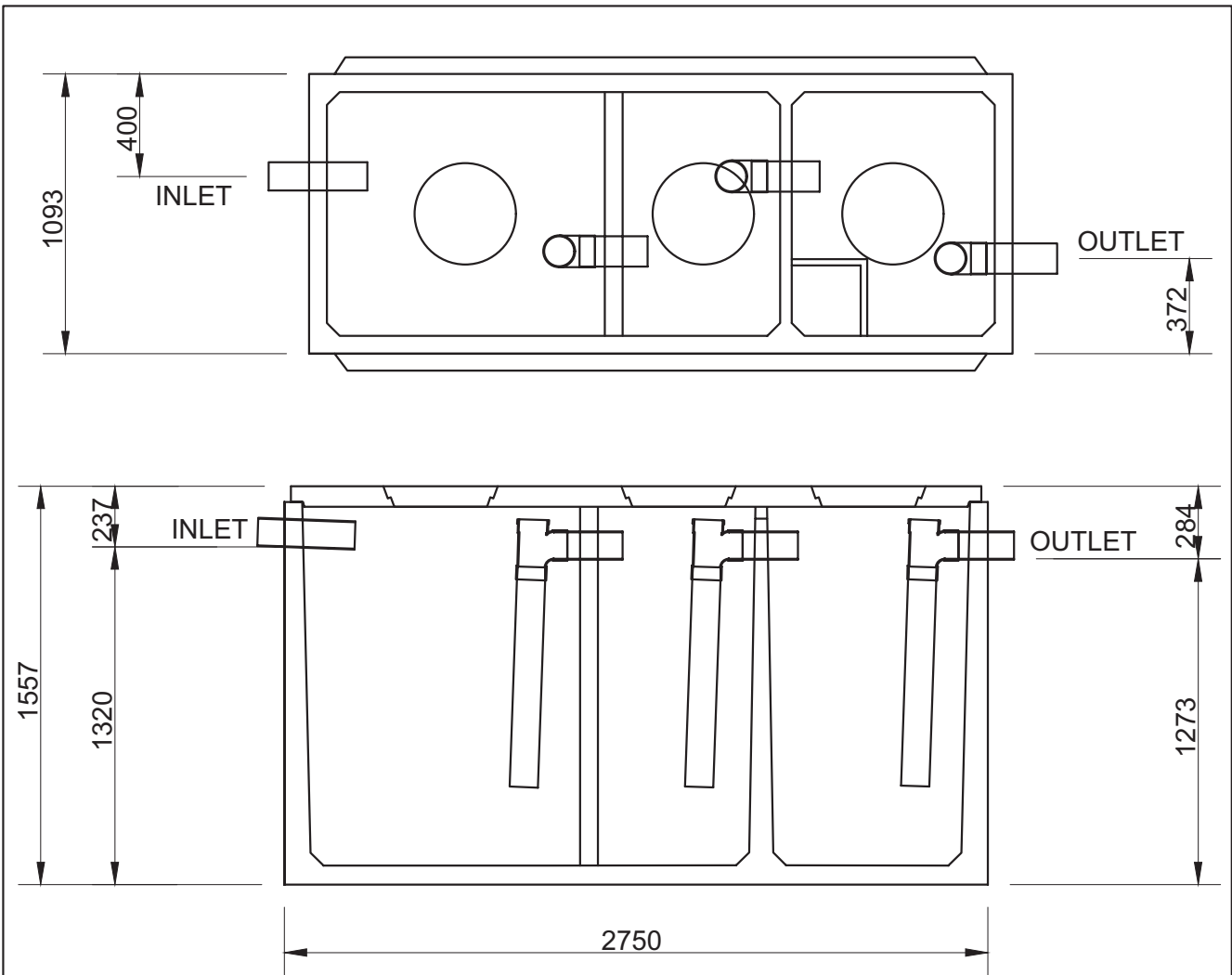
Larger sized inlets/outlets can be installed for customised applications. For dimensions and weights of all systems, visit www.austinbluewater.co.nz or call the Austin Bluewater technical team on 0800 AUSTIN.

Lid Options

Concrete lift out lids come as standard. Lockable heavy duty lids are available on request. Circular 600mm cast iron non vented manhole covers available for heavy duty 60kN rated models.

Other options: Square cast iron non vented manhole covers, cast iron grates for surface collection, concrete lift out lids, Polylok circular lockable lids & risers. Discuss your requirements with your sales engineer.

Contact your Austin Bluewater office or nearest distributor for further information or manufacturing options.



Lid thickness standard at 80mm. Recommended maximum loose soil cover depth - 400mm.

Light Trafficable and heavy duty lids with cast iron frame and grates are available to order. Contact Austin Bluewater technical department.

TANK Weight - including 80 mm lid = 3.6 tonne

Lifting - 4 x Reid 2.5 t eye anchors. When handling an equalising beam must be used to ensure equal loading to all lifting anchors.

Unit supplied with 3 lift out concrete lids as standard. To extend with turrets use 400 dia Farm Tuff pipe.

*100mm pipework shown



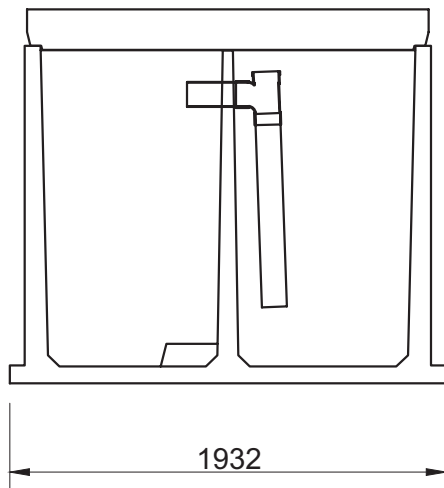
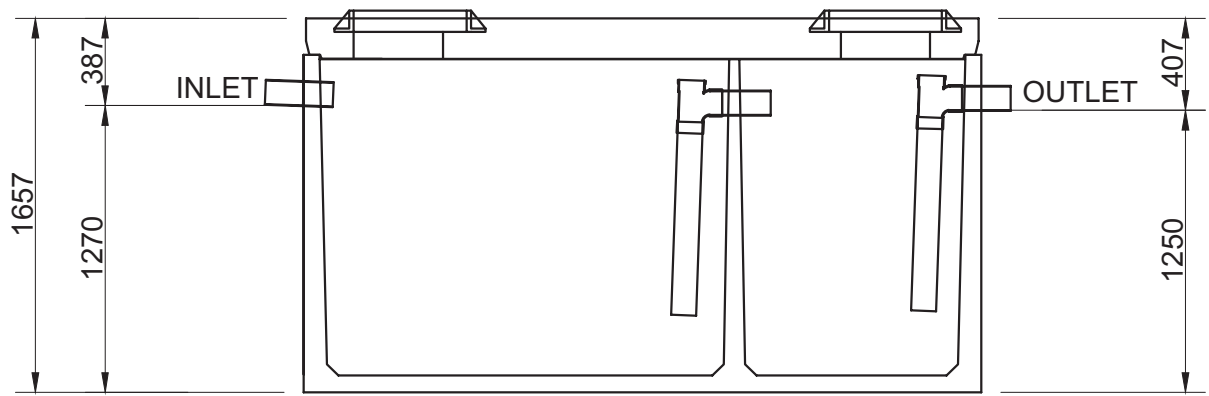
Christchurch Head Office
 20 Illinois Drive, Rolleston
 0800 AUSTIN (0800 287 846)
www.austinbluewater.co.nz

Oil & Grit Interceptor

3300 Litre Capacity

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Product code:	Scale: NTS
Typical OG33	Drawn: GN
	Date: 07/17
	Rev: Jul 2017



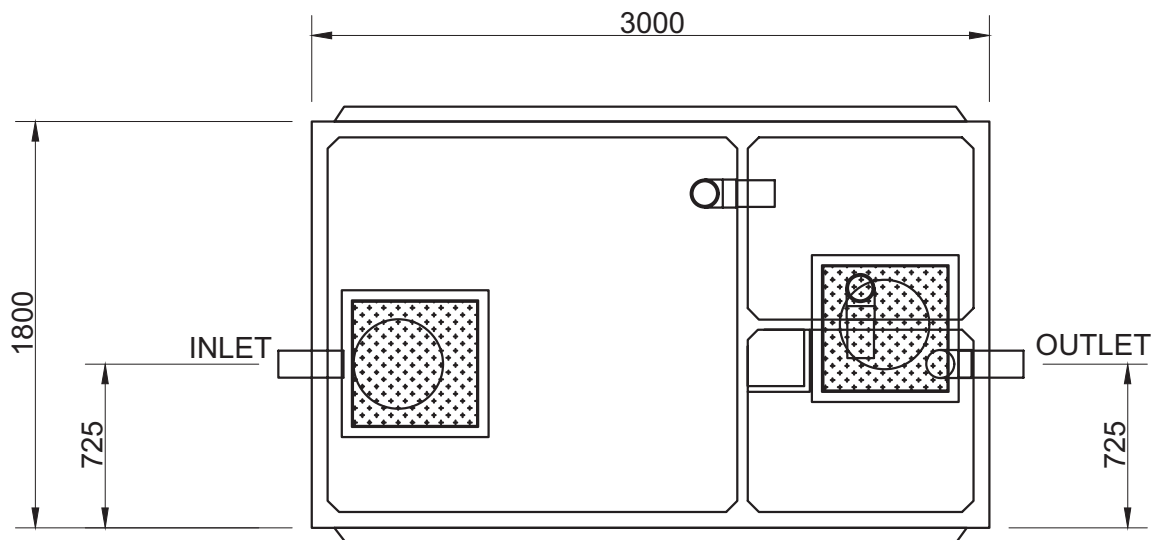
Class 1 - Trafficable lid

TANK Weight - including 180mm lid = 6.8 tonne

Lifting - 4 number Reid 2.5t eye anchors. When handling, an equalising beam must be used to ensure equal load to all lifting anchors.

Note: Lid openings can be customised for specific requirements - please speak to your Austin Bluewater representative.

*100mm pipework shown



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Oil & Grit Interceptor HD

6500 Litre Capacity

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Product code:

**Typical
 OG65HD**

Scale: NTS

Drawn: GN

Date: 07/18

Rev:

Jul 2018





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