

AQ | AQUA ADVANCED

WASTEWATER & IRRIGATION SYSTEM

INFORMATION PACK

- / Brochure
- / Test Results
- / Spec sheets (polymer & concrete)
- / State Approval
- / Global Certification

AQ

AQUA ADVANCED

WASTEWATER & IRRIGATION SYSTEM

AUSTRALIAN MADE & OWNED

20 YEAR TANK WARRANTY · SMALL FOOTPRINT

THE COMPLETE SOLUTION TO RECYCLING HOUSEHOLD WATER



Why choose Aqua Advanced?

The Aqua Advanced Wastewater & Irrigation System is designed to treat all of the wastewater from your laundry, kitchen and bathroom so that it can be safely reused on your lawn and garden.

Required for properties that do not have access to main sewer lines, Aqua Advanced uses similar processes and technologies to that of the sewage treatment plants used in large townships and cities.

Designed and manufactured in Australia, Aqua Advanced is available in both polymer and concrete. The system is a one tank, compact design with small footprint, discreet lid and control box, complete with an alert system. Built with above or below ground irrigation capabilities, making our system the complete solution to recycling household wastewater.

Safe & reliable

- / Aqua Advanced comes with a 20 year tank warranty
- / Manufactured by Everhard Industries - the trusted brand in environmental and wastewater solutions
- / All household water can be connected with the appropriate working capacity system
- / Unobtrusive, odour free, environmentally friendly and safe

Tested to industry standards

- / Aqua Advanced has tested to the requirements of the AS/NZ1546.3 standard and has tested to the Advanced Secondary Standard, see our website for more details around the standards
- / Aqua Advanced has passed a stringent testing program which was undertaken over a period of 34 weeks. Australia has one of the most demanding testing programs worldwide, which ensures the standard of effluent discharged to the environment is world leading

Sustainable & environmental

- / Designed and manufactured by Everhard Industries, Aqua Advanced is 100% Australian made and owned
- / Treating and recycling wastewater minimises the amount of pollution entering waterways, keeping the environment safe
- / Using the water on your garden and lawn reduces your water bill and is also advantageous during drought or through periods of water restrictions

Service & maintenance

- / Service & maintenance is carried out every 3 months by a licensed Service Provider
- / Light routine maintenance is performed by the homeowner ensuring you get the most out of the system and understand the functions and limitations of the system. All details are provided in the Homeowners Manual that is supplied with the purchase of the system

How it works

As water comes from the house into the system, Aqua Advanced carefully treats the wastewater throughout 5 processes - **primary, aeration, clarification, disinfection and irrigation.**

Designed and built with back up mechanisms, alert system and overflow, this ensures complete safety for your home, your family and the environment.



1.

Primary treatment

All wastewater flows into the primary treatment area that allows for the removal of solids and fats from the raw sewage

2.

Aerobic treatment

Settled wastewater flows into an aerobic zone that is pumped with air using an aerator. This zone is fitted with media, which allows for aerobic bacterial growth that biodegrade residual organic material

3.

Clarification

Aerated water undergoes a final clarification. This allows most of the residual solids to settle, which are then pumped back to the primary tank

4.

Disinfection

Where specified by local authorities, clarified water is disinfected. This is achieved by allowing the water to flow over chlorine tablets, providing enough chlorine concentration to eliminate any residual bacteria

5.

Irrigation

When sufficient wastewater has been treated, a pump will activate allowing safe, recycled water to disperse, via the irrigation system

'Aqua Advanced is made
for **Australian homes and
Australian conditions,**
working to conserve the
environment for the future'



Aqua Advanced
- concrete tank

'Our high performing test results means complete safety for your home, your family and the environment'

Aqua Advanced
- polymer tank



**'By purchasing Aqua Advanced
you are supporting Australian
manufacturing and helping us
keep the industry strong'**

Where can I buy?

Everhard Industries has a large network of distributors Australia-wide. Our distributors are wastewater experts who can supply, install and service Aqua Advanced for you.

To find a distributor go to everhard.com.au/where-to-buy

I want to order, what's next?

- / Contact your local distributor for more information and a quote, they will assist you with everything you need to know about installing and maintaining a domestic wastewater system
- / Your local distributor can advise if an independent consultant is required to prepare an Onsite Wastewater Management Report
- / Submit an application form required by your local government authority. Your local distributor can also assist with this
- / Book in your system installation with your local distributor

I'd love more information

Homeowners' hub

Scan the code to access our Homeowners' hub

- handy resources for everything Wastewater & Environmental including Aqua Advanced pre-purchase, purchase and after-purchase information

Installers' all access area

Scan the code to access our Installers' all access area

- professional resources to assist you in supplying, installing and servicing Aqua Advanced

everhard.com.au | 131 926

Product Name:
Aqua Advanced - Polymer

EI Code:
80700

EP:
1200L/ 8EP

Dimensions:
2671 H x Ø1620

Weight:
453 Kg

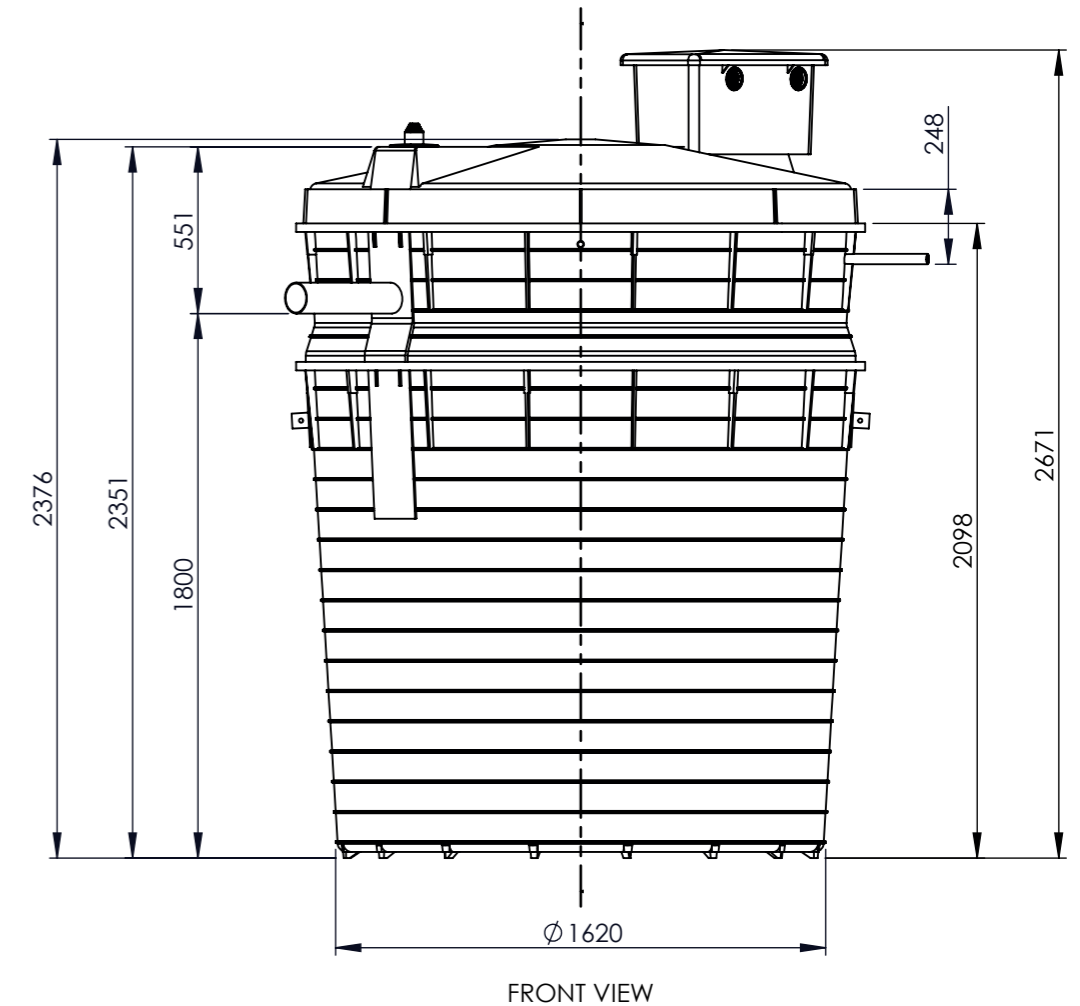
Material:
Polymer



Average Test Results & State Approvals (AS1546.3:2017):

BOD5 (mg/L)	TSS (mg/L)	E.Coli (cfu/100ml)	Vol (litres)	Pump Out Frequency Years
1.25	5.4	.2	4,300	3.3

State	Tank Type	CERT No.	Expiry Date
VIC	Polymer	632	28/09/2025
QLD	Polymer	02/2021	27/01/2026
NSW	Polymer	STS-AWTS053	31/12/2025
NT	Polymer	2021/3682EH	22/02/2026
SA	Polymer	WWP-20074	28/09/2025



Chamber	Volume
Primary 1	714 L
Primary 2	661 L
Aeration	942 L
Clarification	671 L
Disinfection/ Irrigation	253 L
Emergency	1086 L

Disclaimer: All measurements are in millimetres and are subject to change without any prior notice. It is advised for this product to be installed by a professional contractor to ensure installation is correct. Further information is available at www.everhard.com.au

Product Name:
Aqua Advanced - Concrete

EI Code:
10700

EP:
1200L/ 8EP

Dimensions:
2890 H x Ø1875

Weight:
3312 Kg

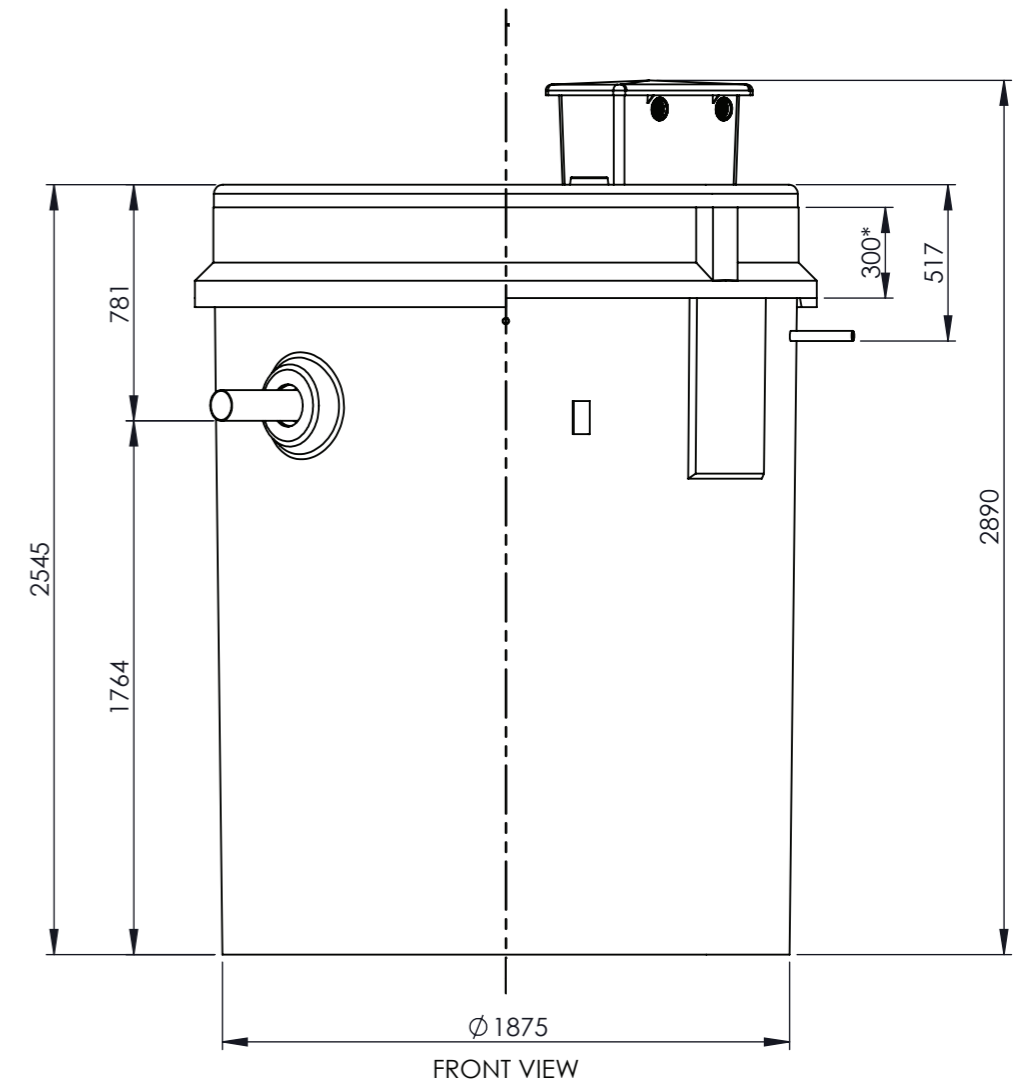
Material:
Concrete



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TREATMENT PLANT APPROVAL 02/2021

Plumbing and Drainage Act 2018

Approval

1. The **Concrete/Poly Aqua Advanced (8EP/1200L)** (“the system”) described in the Specifications and Drawings in the attached Schedule and manufactured by **Everhard Industries Pty Ltd** (“the manufacturer”) (ABN 41 009 690 859) has been assessed in accordance with the Queensland Plumbing and Wastewater Code (QPW Code) dated 26 March 2019.
2. Approval is granted for the advanced secondary quality wastewater treatment system, subject to compliance by the manufacturer with the requirements of the *Plumbing and Drainage Regulation 2018*, and the conditions of approval detailed below.
3. This approval, the conditions of approval and the Schedule comprise the entire Treatment Plant Approval document.
4. Any modification by the manufacturer to the design, drawings or specifications scheduled to this approval must be approved by the Chief Executive.

Conditions of approval

5. The manufacture, installation, operation, service and maintenance of the systems must be in conformity with the conditions of this Treatment Plant Approval.
6. The system when tested by a certification accreditation body in accordance with AS1546.3:2017 was found to comply with the advanced secondary 8EP/1200L level without nutrient reduction effluent criteria and must continue to meet the following requirements:

TABLE 2.1 (AS1546.3:2017)
EFFLUENT COMPLIANCE CRITERIA
FOR AN STS WITH NO NUTRIENT
REDUCTION FACILITIES

Parameter	Secondary effluent		Advanced secondary effluent	
	90% of samples	Maximum	90% of samples	Maximum
BOD ₅	≤20 mg/L	30 mg/L	≤10 mg/L	20 mg/L
TSS	≤30 mg/L	45 mg/L	≤10 mg/L	20 mg/L
<i>E. coli</i> *	≤10 cfu/100 mL	30 cfu/100 mL	≤10 cfu/100 mL	30 cfu/100 mL
FAC	Minimum 0.5 mg/L†	N/A	Minimum 0.5 mg/L†	N/A
Turbidity	N/A	N/A	N/A	5 NTU

* Where disinfection is required.

† Minimum level, not 90% of samples.

Treatment Plant Approval

Approved by: Lindsay Walker

Delegated Authority

Department of Housing & Public Works

7. Each system must be serviced in accordance with the accreditation certificate by Global Certification Pty Ltd on 29 September 2020, and details supplied in the owner's operation and maintenance manual.
8. Each system must be supplied with —
 - (a) a copy of this Treatment Plant Approval document;
 - (b) details of the system;
 - (c) instructions for authorised persons for its installation;
 - (d) a copy of the owner's manual to be given to the owner at the time of installation; and
 - (e) detailed instructions for authorised service personal for its operation and maintenance.
9. At each anniversary of the Treatment Plant Approval date, the supplier must submit to the Chief Executive a list of all systems installed in Queensland during the previous 12 months. Where the Chief Executive is notified of any system failures the Chief Executive may randomly select a number of installed systems for audit. The Chief Executive will notify the supplier's nominated NATA accredited laboratory which systems are to be audited for BOD⁵ and TSS. The sampling and testing of selected systems, if required, is to be done at the supplier's expense. The following results must be reported to the Chief Executive;
 - (a) Address of premises;
 - (b) Date inspected and sampled;
 - (c) Sample identification number;
 - (d) BOD⁵ for influent and effluent; and
 - (e) TSS for influent and effluent.
10. The Chief Executive may, by written notice, cancel this approval if the manufacturer/supplier fails —
 - (a) to comply with one or more of the conditions of approval; or
 - (b) within 30 days, to remedy a breach, for which a written notice been given by the Chief Executive.
11. This approval may only be assigned with the prior written consent of the Chief Executive.
12. This approval expires on 27 January 2026 unless cancelled earlier in accordance with paragraph 10 above.

Lindsay Walker

**Director
Plumbing, Drainage and Special Projects
Building Legislation and Policy**

Date approved: 28 January 2021

Level 7,
63 George Street Brisbane
GPO Box 2457, Brisbane Qld 4001

Telephone +61 7 3008 2557
Facsimile +61 7 3237 1248

Website www.hpw.qld.gov.au

ABN 61 331 950 314

Treatment Plant Approval

Approved by: Lindsay Walker

Delegated Authority

Department of Housing & Public Works

TREATMENT PLANT APPROVAL No. 02/2021
Plumbing and Drainage Act 2018

SCHEDULE

Attachment 1

Drawings and Specifications for the

Concrete/Poly Aqua Advanced (8EP/1200L)

Treatment Plant Approval

Approved by: Lindsay Walker

Delegated Authority

Department of Housing & Public Works

PRODUCT CERTIFICATE OF REGISTRATION



Global Certification Pty Ltd

Number 632

Product Performance Testing

AS 1546.3:2017

Advanced Secondary 1200 L/day or 8EP Level

Issued to

Everhard Industries Pty Ltd

454 Newman Road Geebung Qld 4034

Certification Date: - 29th September 2020

Expiry Date: - 28th September 2025

Product Certified:

Model	Disinfection	Average Results over the Test Period	Servicing Frequency	Discharge	Manufactured and assembled
Aqua Advanced Poly and Aqua Advanced Concrete	Yes	TSS 5.4 mg/l BOD ₅ 1.25mg/l Turbidity 7.6NTU E coli 0.2 CFU/100ml	3 Monthly Service 3.3 yearly sedimentation pump out or as required	Pumped via disinfection/pump chamber with chlorine dispenser	Manufactured and Assembled: At 454Newman Road Geebung Qld 4034 using certified tanks to AS/NZS 1546.1:2008

**The system took 4 weeks to meet the advanced secondary standard.
It is serviced 3 monthly.**

NACE CODES: 3700

This Certificate of Conformance to the Product Certificate Scheme for "Domestic Wastewater Treatment Units (Septic Tanks) and Rainwater Tanks" remains the property of Global Certification Pty. Ltd. and is granted subject to the terms and conditions of the Contract Application, in respect of the Product certified on this page and the attached schedule to the Certification of Conformance, bearing the same number as this certificate.

Date of Issue: 29th September 2020 **Bruce Smith Director**



www.jas-anz.com.au/register

Signed for and on behalf of Global Certification Pty Ltd
PO Box 953 Belconnen ACT 2616

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Treatment Plant Approval

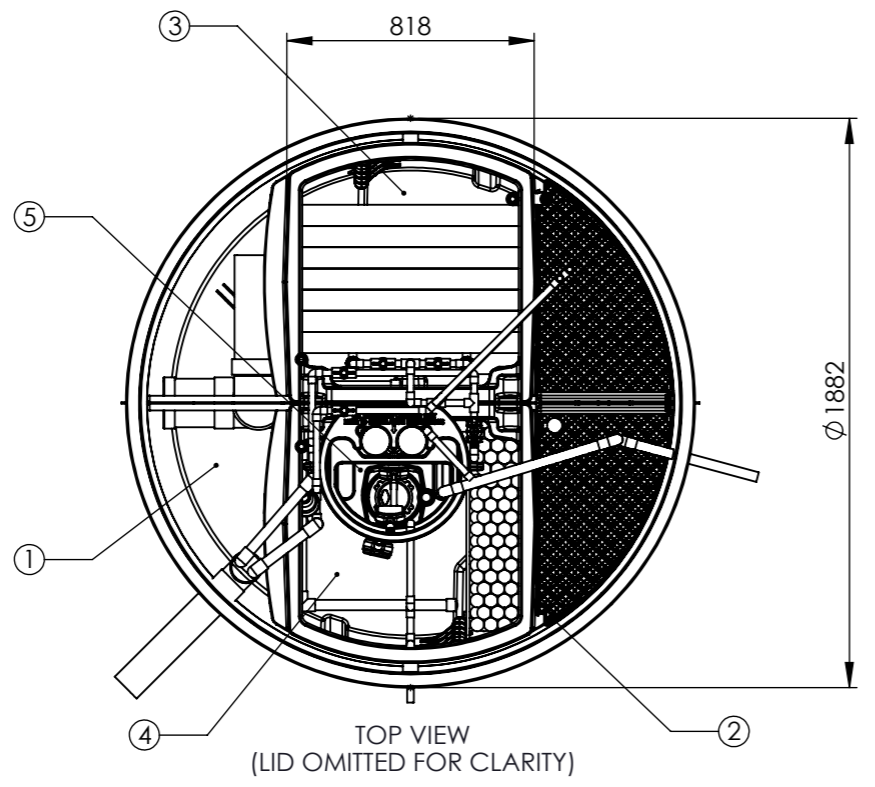
Approved by: Lindsay Walker

Regulatory Authority

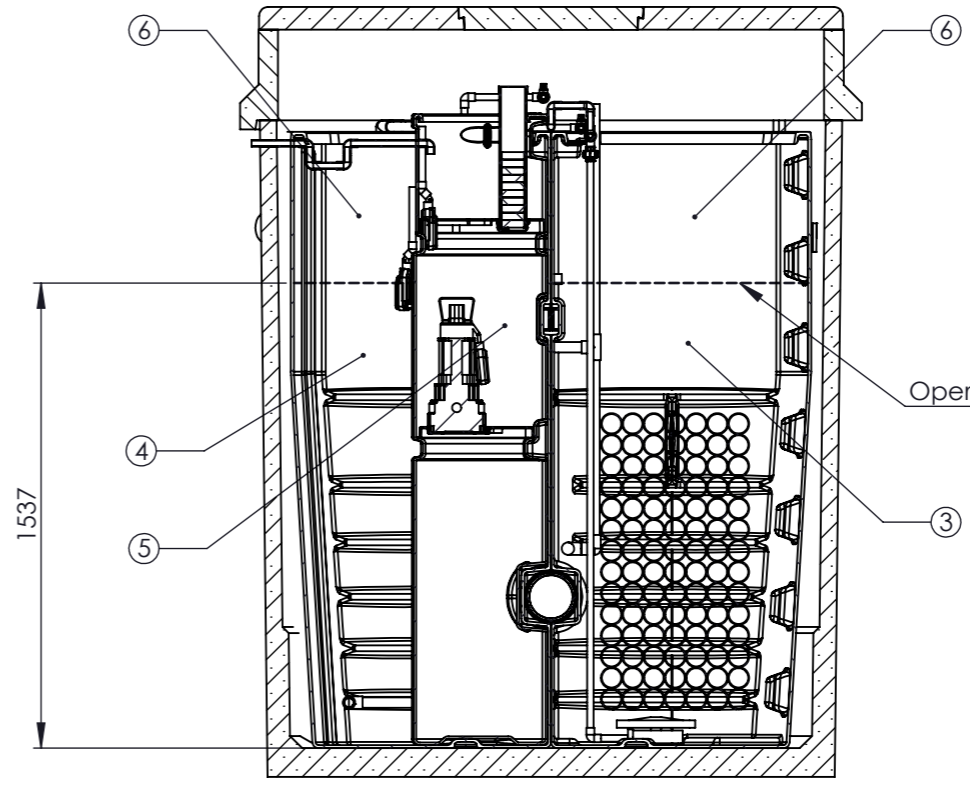
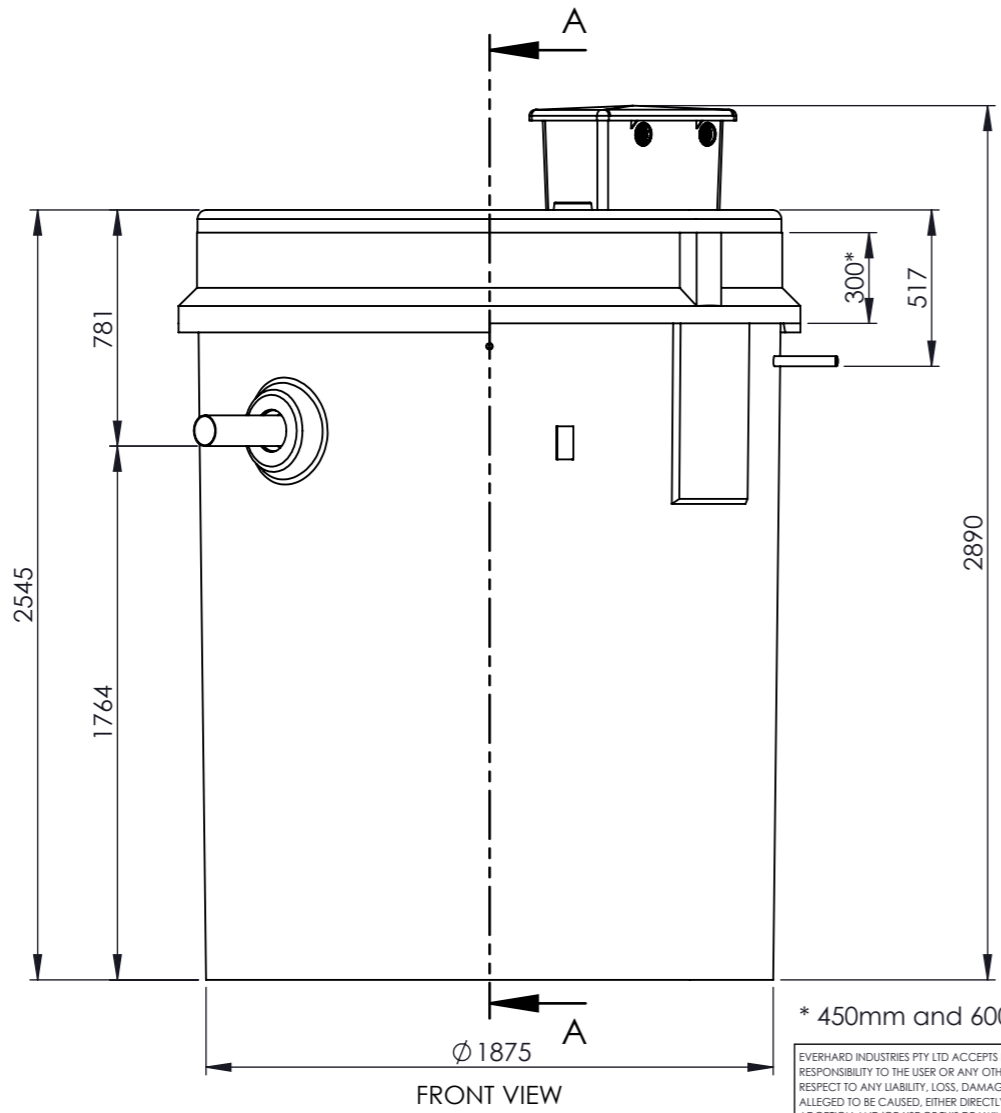
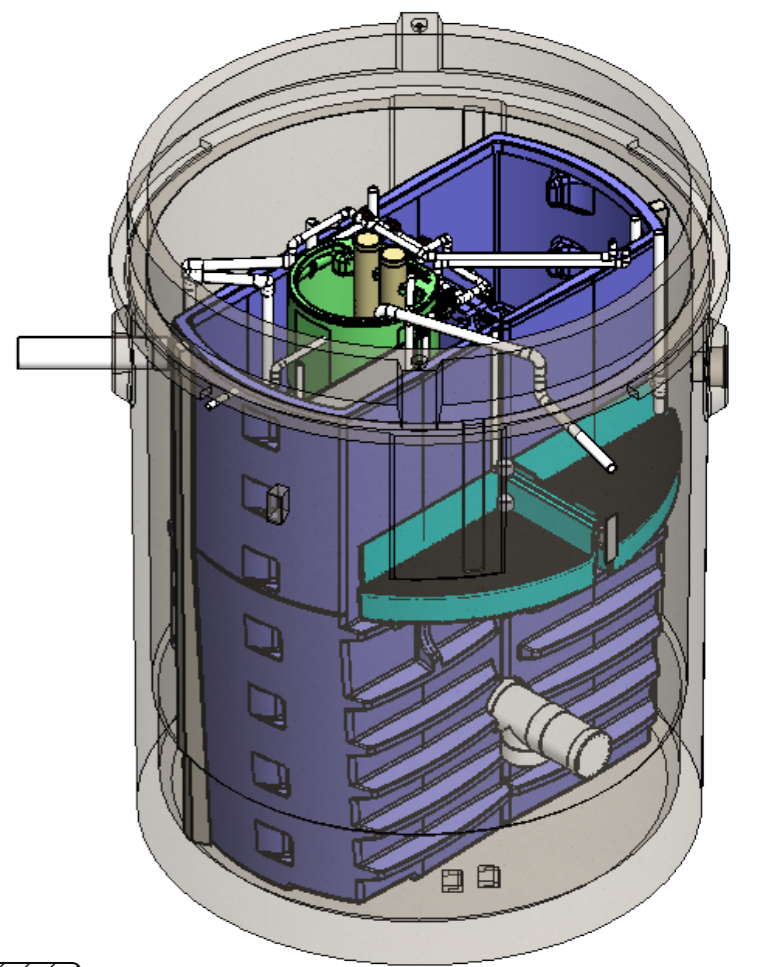
Department of Housing & Public Works



Chamber	Volume
1 Primary 1	915 L
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6 Emergency	1142 L



Treatment Plant Approval
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 Delegated Authority
 Department of Housing & Public Works

* 450mm and 600mm Riser Optional

EVERHARD INDUSTRIES PTY LTD ACCEPTS NO LIABILITY OR RESPONSIBILITY TO THE USER OR ANY OTHER PERSON OR ENTITY WITH RESPECT TO ANY LIABILITY, LOSS, DAMAGE OR INJURY CAUSED OR ALLEGED TO BE CAUSED, EITHER DIRECTLY OR INDIRECTLY, BY THE ADOPTION AND/OR USE OF THIS DRAWING. THIS INCLUDES, BUT IS NOT RESTRICTED TO, ANY INTERRUPTION OF SERVICES, LOSS OF ACTUAL OR ANTICIPATED BUSINESS, INCOME, AND PROFITS, OR CONSEQUENTIAL DAMAGES ARISING FROM, OR ASSOCIATED WITH THE USE OF ANY PRODUCT MADE IN ACCORDANCE WITH THIS DRAWING. FURTHERMORE, THIS DRAWING MUST NOT BE ASSUMED TO BE AN EQUIVALENT TO, OR A SUBSTITUTE FOR, ANY GENERAL USAGE OR PROJECT SPECIFIC DESIGN UNLESS ANALYSED AND APPROVED AS SUCH BY AN INDEPENDANT AND APPROPRIATELY QUALIFIED PROFESSIONAL. ARRANGING FOR ANY SUCH ASSESSMENT IS THE RESPONSIBILITY OF THE CUSTOMER PURCHASING THE PRODUCT SHOWN IN THIS DRAWING FROM EVERHARD INDUSTRIES PTY LTD. IT IS THE USERS RESPONSIBILITY TO ENSURE THE APPROPRIATE PRODUCT IS SELECTED AND THAT THE CORRECT SCALE WHEN USING A DRAWING IS UTILISED.

EVERHARD INDUSTRIES
 Everything Water
 454 NEWMAN ROAD
 GEEBUNG, QLD, 4034
 PH : (07) 3637 6444
 FAX : (07) 3265 2111

DO NOT SCALE DRAWING
 UNLESS OTHERWISE SPECIFIED:
 DIMENSIONS ARE IN MILLIMETERS
 THIRD ANGLE PROJECTION
 DEBUR AND BREAK SHARP EDGES
 SURFACE FINISH:

TOLERANCES:
 XX = ±2
 X.X = ±0.2
 X.XX = ±0.02

	NAME	SIGNATURE	DATE	MATERIAL:
DRAWN	K.Smerdon		15/09/2020	Concrete
CHK'D	R.Tomlinson		23/09/2020	
APP'V'D				

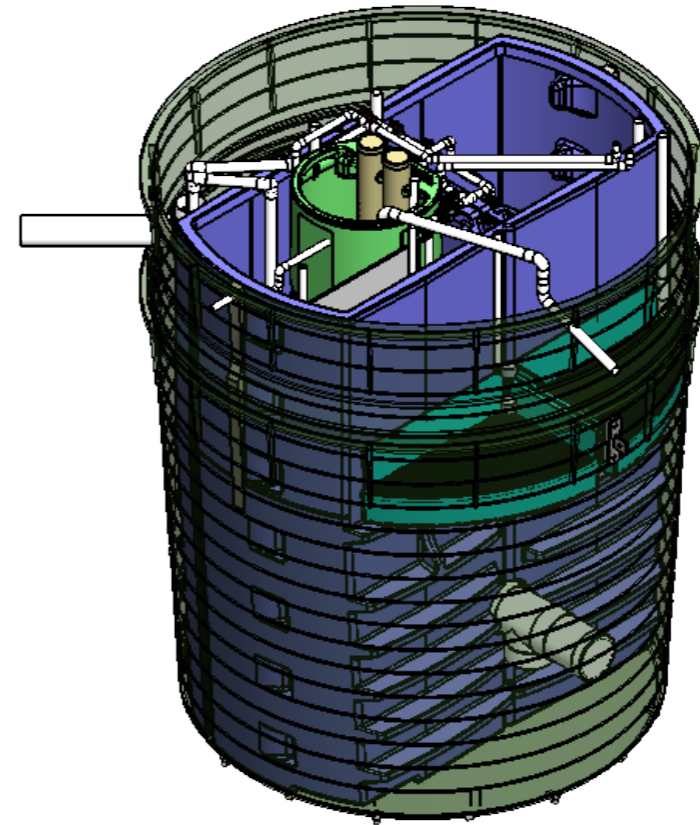
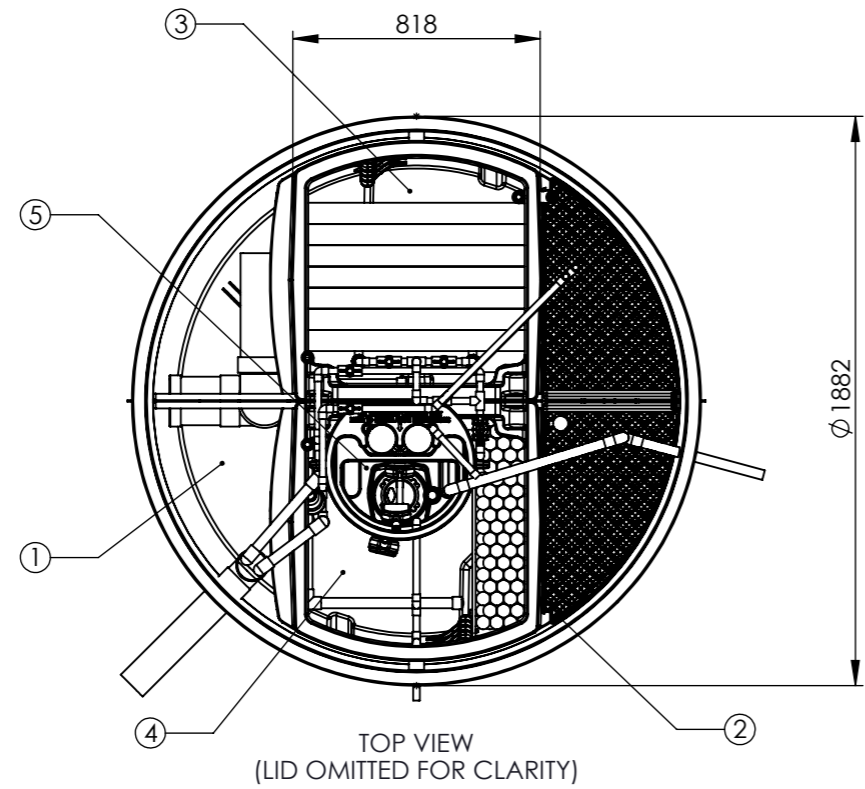
ESTIMATED WEIGHT: kg

PROJECT:
Aqua Advanced
 TITLE:
Concrete System Assembly

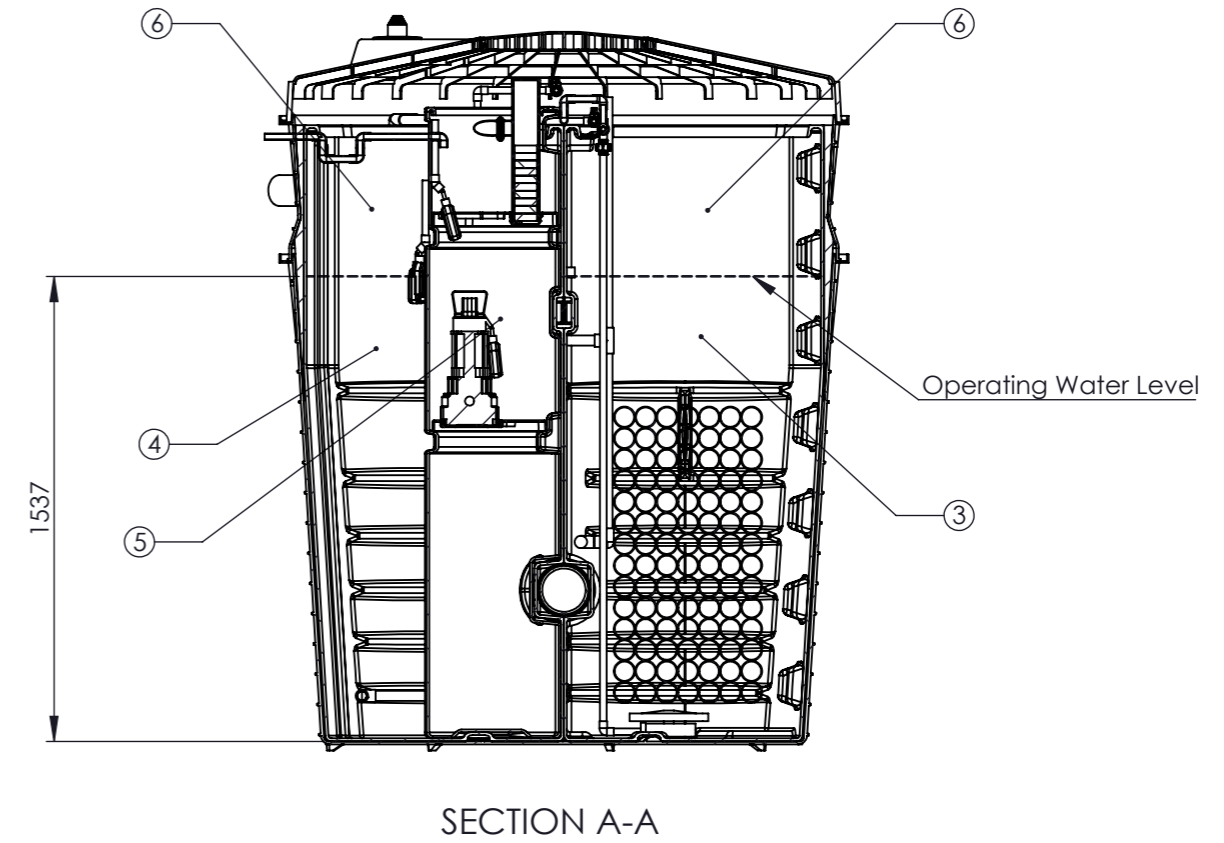
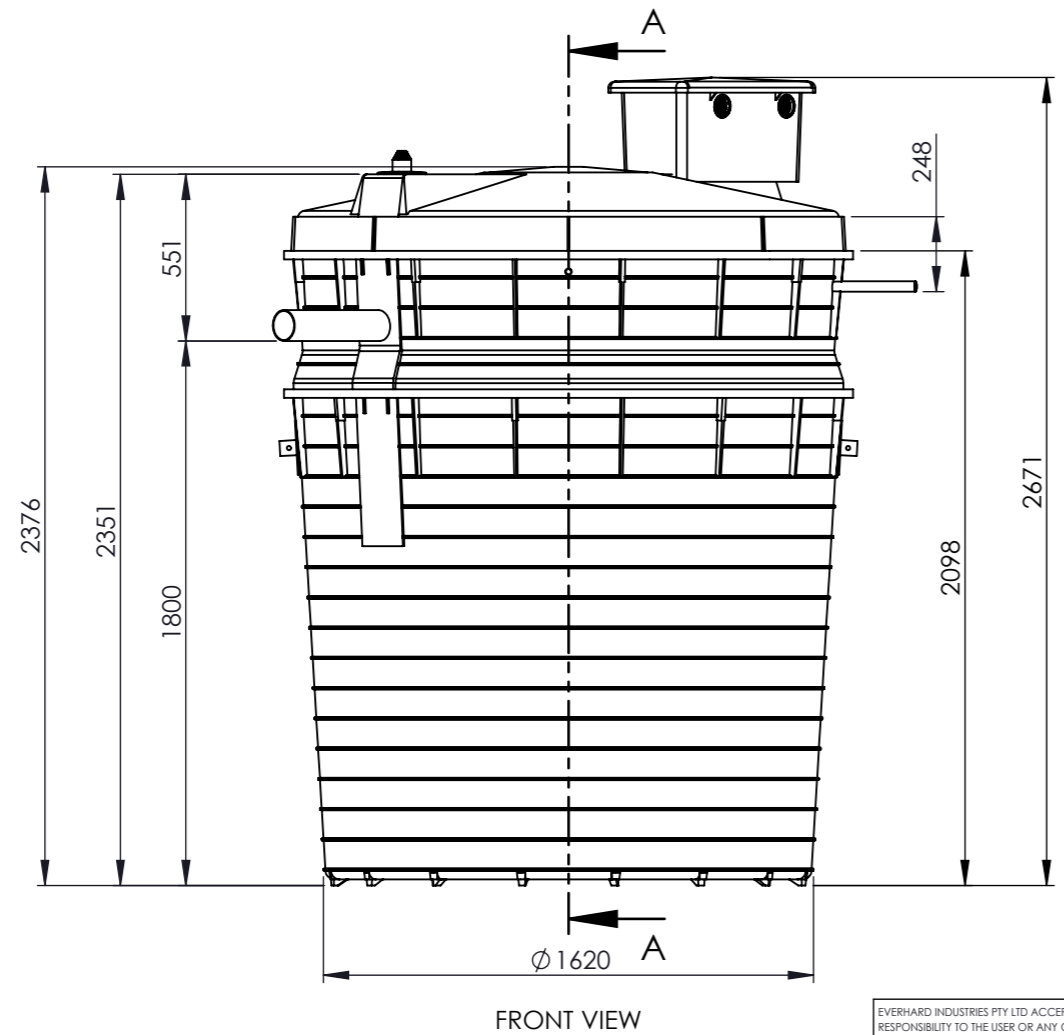
DWG NO.	REVISION
C07585	0

PRODUCT CODE: SHEET 1 OF 1 SCALE: 1:25

Chamber	Volume
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Treatment Plant Approval
 Approved by: Lindsay Walker
 Delegated Authority
 Department of Housing & Public Works

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 SURFACE FINISH:

TOLERANCES:
 XX = ±2
 X,X = ±0.2
 X.XX = ±0.02

MATERIAL:
 Polypropylene

ESTIMATED WEIGHT: kg

PROJECT:
Aqua Advanced
 TITLE:
Polymer System Assembly

DWG NO. **P07584**

REVISION **0**

SCALE: 1:25

SHEET 1 OF 1

A
B
C
D
E
F

A
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F

1 2 3 4 5 6 7 8

PRODUCT CERTIFICATE OF REGISTRATION



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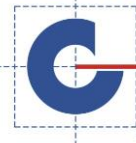
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