

Approval certificate

Trade waste pre-treatment product



Applicant: GRAF Australia Pty Ltd
Postal address: 43b Sparks Road, Henderson 6166 WA

Attention: Ingrid Custodio
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Manufacturer: GRAF Australia Pty Ltd & Otto Graf GmbH
Address: 43b Sparks Road, Henderson 6166 WA and Teningen, Germany

Product description

The GRAF Australia range of averaging dilution pits are designed for waste streams comprising of acids and bases that are combined within the pit volume so that the accepted pH range is achieved. GRAF averaging dilution pits must not receive any incompatible waste streams that interfere with the pre-treatment performance.

A maximum of two SC 2000 units in series can be arranged to form a maximum of up to 4000 litre operating capacities for installations within Water Corporation's area of operations.

Any proposed installation of a SC 3000, SC 4000, SC 5000 or SC 10000 unit is first subject to a formal Water Corporation Trade Waste plumbing assessment (and approval) of the overall waste stream processes to determine if the SC 3000, SC 4000, SC 5000 or SC 10000 unit is the most appropriate form of pre-treatment. The SC 3000, SC 4000, SC 5000 or SC 10000 units can only be installed as single units.

GRAF trade waste tanks are manufactured from roto-moulded polyethylene (PE) materials, which are UV stabilised.

The approval certificate applies to the pre-treatment devices of the following sizes:

Approval Number	Model	Make	Installation Type	Width (mm)	Length (mm)	Height ¹ (mm)	Access Lid Type ²	Inlet / Outlet Diameter (mm) ³	Inlet Height ⁴ (mm)	Outlet Height ⁴ (mm)
AN-100-01	SC	2000 L	Below	1,180	3,000	1,100	Various	110 / 110	1,520	785
AN-100-02	SC	3000 L	Below	1,415	3,000	1,340	Various	110 / 110	1,760	1,030
AN-100-03	SC	4000 L	Below	1,565	3,000	1,520	Various	110 / 110	1,920	1,190
AN-100-04	SC	5000 L	Below	1,735	3,000	1,685	Various	110 / 110	2,080	1,315
AN-100-06	SC	10000 L	Below	2,240	3,490	2,290	Various	110 / 110	2,710	1,880

1: Not including riser or lid cover; 2: Polyethylene, cast iron, stainless steel and concrete infill; 3: 160 mm & 200 mm also available; 4: From base.

Special conditions of approval

1. The product shall be sized to ensure the discharge meets the Corporation's [Trade Waste Acceptance Criteria](#).
2. The product shall be *supplied* with manufacturer's installation instructions and recommended procedures for operation and maintenance.
3. The product shall be *installed* and *serviced* strictly in accordance with the manufacturer's written instructions and the *Plumbing Standards*, with particular emphasis on the following:
 - a. *Assembly and Installation Instructions Trade Waste Range* (MNL-087_6, received Wed 15 May 2024).
 - b. *Operation and Maintenance Instructions Averaging Dilution Pit SC Series* (MNL-089_3, received Wed 03 Jan 2024).
 - c. *Operational Log* (FRM-117_1, received Tue 28 May 2024)
 - d. A Trade Waste Sampling Point (TWSP) must be installed according to the Corporation's typical drawings.
4. This approval certificate is not a stand-alone document and **must be read** in conjunction with the following Water Corporation's *Typical Drawings for Trade Waste*:
 - a. [Trade Waste Sampling Point \(HX33-11-30\)](#)
 - b. [Sealed trade waste sampling points \(HX33-10-10\)](#)
5. A maintenance contract is to be in place to ensure the ongoing reliability of the product and that discharges to sewer comply with Water Corporation's [Acceptance Criteria for Trade Waste](#).
6. Water Corporation must be notified within fourteen (14) days upon installation of the product.
7. The use of emulsifying agents upstream of the product must not occur. Such instructions must be noted on operating documentation.
8. The product chosen must be suitably sized to avoid surge conditions.
9. Clear access for the purposes of maintenance or servicing of the pre-treatment device must be maintained at all times.
10. This approval certificate is not an endorsement of the product by Water Corporation, and no claim shall be made in advertising, promotion or other manner to the effect.
11. Water Corporation accepts no responsibility for the effective operation, performance or efficiency of the product. This approval is not an engineering approval or structural endorsement.
12. The proponent of the approved product must formally seek a request for re-approval of the product no later than three (3) months before the assigned **Validity Period** has expired from the **Date Issued** of this approval certificate.
13. Water Corporation reserves the right to vary any requirements at any time. Any application of this condition normally occurs after consultation with the manufacturer, supplier and end business user connected to Water Corporation's sewer.

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Special conditions of approval (continued)

14. Water Corporation shall be notified in writing if the pre-treatment device is withdrawn from sale.
15. The proponent of the approved product accepts that the information provided in this document shall be made publicly available.

General conditions of approval

Approval shall be **suspended** where any of the following conditions are not met:

1. If there is a breach of the Special Conditions.
2. The assigned **Validity Period** has expired from the **Date Issued** of this approval certificate.
3. The product shall be manufactured in accordance with Water Corporation's requirements at the time of approval.
4. The product shall be manufactured to comply according to the details noted in the drawings referenced below, in addition to any further details provided by the proponent when seeking this approval.
5. The product supplied for use in Water Corporation's area of operations shall comply with the requirements shown on this approval certificate. Sizes, classes, lengths or other product variables which are available with the product but which are not approved as listed on this approval certificate shall not be offered by the supplier for use in Water Corporation's area of operations.
6. All discharges to sewer associated with this product must not exceed Water Corporation's *Trade Waste Acceptance Criteria*. Where the discharge *has* or is *likely* to exceed the *Trade Waste Acceptance Criteria* then the Corporation may direct a *specific* or *ongoing* maintenance requirement to be followed.
7. Prior to any business (which is connected to Water Corporation's sewer) installing this product the business must apply to Water Corporation for a *Trade Waste Permit* for approval to discharge.
8. If this certificate has been issued to the manufacturer of this product then it is the responsibility of the manufacturer to ensure all current and future suppliers / vendors of this product are provided a copy of this approval certificate.

Approval shall be **reviewed** where any of the following conditions occur:

1. The product is manufactured with either different materials, methods of manufacture, location of manufacture, source of raw materials, component subcontractors or models to that at the time of approval.
2. The ownership of the primary manufacturer or any subcontractors is varied from that at time of approval.
3. The standards and/or specifications to which the product was required to comply with at the time of approval have been amended or revised. It is the responsibility of the proponent to immediately advise Water Corporation of any changes to the proponent's drawings and installation, operation and maintenance manuals made at the time of approval.
4. The product has been found to sustain damage or provide unsatisfactory performance on a number of occasions considered excessive by Water Corporation, when handled, stored, assembled or installed in accordance with the supplier's or manufacturer's written instructions.

Approved drawing(s):	GRAF Averaging Dilution Pit SC 2000 (article 31.0204, dated 2024.05.08)
	GRAF Averaging Dilution Pit SC 3000 (article 31.0205, dated 2024.05.08)
	GRAF Averaging Dilution Pit SC 4000 (article 31.0206, dated 2024.05.08)
	GRAF Averaging Dilution Pit SC 5000 (article 31.0207, dated 2024.05.08)
	GRAF Averaging Dilution Pit SC 10000 (article 31.0209, dated 2024.05.08)

Authorising person: Stephen Jerkovic (Team Leader – Investigations)

Date issued 28 May 2024

Validity period: Two (2) years