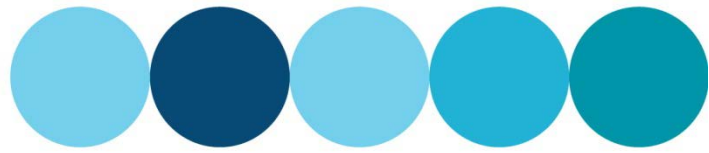


Approval certificate

Trade waste pre-treatment product



Applicant: Viking Plastics Engineering Pty Ltd
Postal address: 143 Woodlands Drive Braeside VIC 3195

Attention: David Brumby
Web: vikingplastics.com.au
Email: info@vikingplastics.com.au

Manufacturer: Viking Plastics Engineering Pty Ltd
Address: 143 Woodlands Drive Braeside VIC 3195

Product/device description

The Viking range of passive grease arrestors are designed to trap and remove grease, fat and oil from commercial kitchens. Viking trade waste tanks are manufactured from sheet polypropylene (PP) and/or polyethylene (HDPE) materials, the majority of these materials are UV stabilised. Construction methods are described as 'Thin-skin' or 'Paneltim™'.

Thin-skin below ground tanks are manufactured from 6mm thick PP and must be surrounded with 100mm of concrete during installation. Keying strips on the exterior of the tank allow reinforcing bars to be placed around the tank and secure the tank into the concrete. *Paneltim™* tanks are manufactured from PP or PE material with a 50mm thick closed cell honeycomb type structure, with a wall thickness of 4.5mm.

Below ground tanks are fitted with concrete infill access covers manufactured to Australian Standards to suit expected traffic conditions. The lids provide full access to the inside of the tank for maintenance purposes.

Below ground tanks can be supplied with riser extensions to suit required invert levels if need be.

Paneltim™ above ground tanks and are self-supporting. These tanks can be fitted with either screw-in access openings or hinged access lids. Hinged lids provide access to the tank for maintenance purposes. Screw-in lids are suitable for smaller tanks up to 4000L.

Thin-skin above ground tanks are fitted with external steel support frames.

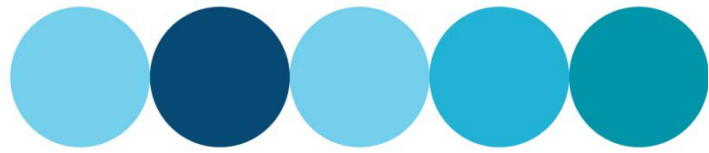
The product range offers six different sizes for each material and installation type.

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

Approval Number	Model	Make	Install Type ¹	Capacity (L)	Width (mm)	Length (mm)	Height ³ (mm)	Access Lid Type	Inlet/Outlet Diameter (mm)	Inlet Height ⁷ (mm)	Outlet Height ⁷ (mm)
AN-070-01	WP9BG540	Thin-Skin	Below	540	750 ²	1,250	900	Cast iron concrete infill	100	225	300
AN-070-02	WP9BG730	Thin-Skin	Below	730	750 ²	1,400	1,000	Cast iron concrete infill	100	225	300
AN-070-03	WP9BG1000	Thin-Skin	Below	1,000	750 ²	1,400	1,260	Cast iron concrete infill	100	225	300
AN-070-04	WP9BG1250	Thin-Skin	Below	1,250	750 ²	1,400	1,500	Cast iron concrete infill	100	225	300
AN-070-05	WP9BG1500	Thin-Skin	Below	1,500	750 ²	1,900	1,400	Cast iron concrete infill	100	225	300
AN-070-06	WP9BG2000	Thin-Skin	Below	2,000	750 ²	2,400	1,420	Cast iron concrete infill	100	225	300
AN-070-42	WP9BG4000	Thin-Skin	Below	4,000	900 ²	2,900 ²	1,830	Cast iron concrete infill	100	400	475
AN-070-43	WP9BG5000	Thin-Skin	Below	5,000	900 ²	4,000 ²	1,500	Cast iron concrete infill	100	400	475
AN-070-44	WP9BG6000	Thin-Skin	Below	6,000	900 ²	4,000 ²	2,000	Cast iron concrete infill	100	400	475
AN-070-45	WP9BG7500	Thin-Skin	Below	7,500	1,200 ²	4,000 ²	1,870	Cast iron concrete infill	100	400	475
AN-070-46	WP9BG10000	Thin-Skin	Below	10,000	1,400 ²	4,000 ²	2,100	Cast iron concrete infill	100	400	475
AN-070-07	WP9AG540	Thin-Skin	Above	540	750 ⁴	1,250 ⁴	960	Gas tight plastic	100	225	300
AN-070-08	WP9AG730	Thin-Skin	Above	730	750 ⁴	1,500 ⁴	980	Gas tight plastic	100	225	300
AN-070-09	WP9AG1000	Thin-Skin	Above	1,000	900 ⁴	1,500 ⁴	1,060	Gas tight plastic	100	225	300
AN-070-10	WP9AG1250	Thin-Skin	Above	1,250	900 ⁴	1,500 ⁴	1,250	Gas tight plastic	100	225	300
AN-070-11	WP9AG1500	Thin-Skin	Above	1,500	900 ⁴	2,000 ⁴	1,130	Gas tight plastic	100	225	300
AN-070-12	WP9AG2000	Thin-Skin	Above	2,000	900 ⁴	2,200 ⁴	1,300	Gas tight plastic	100	225	300
AN-070-13	WPT9AG540	PanelTim	Above	540	870 ⁴	1,390 ⁴	906 ⁴	Gas tight plastic	100	225	300
AN-070-14	WPT9AG730	PanelTim	Above	730	830 ⁴	1,540 ⁴	1,006 ⁴	Gas tight plastic	100	225	300
AN-070-15	WPT9AG1000	PanelTim	Above	1,000	1,030 ⁴	1,790 ⁴	1,006 ⁴	Gas tight plastic	100	225	300
AN-070-16	WPT9AG1250	PanelTim	Above	1,250	1,030 ⁴	2,140 ⁴	1,006 ⁴	Gas tight plastic	100	225	300
AN-070-17	WPT9AG1500	PanelTim	Above	1,500	1,030 ⁴	2,140 ⁴	1,140 ⁴	Gas tight plastic	100	225	300
AN-070-18	WPT9AG2000	PanelTim	Above	2,000	1,030 ⁴	2,340 ⁴	1,310 ⁴	Gas tight plastic	100	225	300
AN-070-19	WPT9BG540	PanelTim	Below	540	1,000 ⁵	1,600 ⁵	950 ⁶	Cast iron concrete infill	100	225	300
AN-070-20	WPT9BG730	PanelTim	Below	730	1,000 ⁵	1,800 ⁵	1,050 ⁶	Cast iron concrete infill	100	225	300
AN-070-21	WPT9BG1000	PanelTim	Below	1,000	1,000 ⁵	1,800 ⁵	1,310 ⁶	Cast iron concrete infill	100	225	300
AN-070-22	WPT9BG1250	PanelTim	Below	1,250	1,000 ⁵	1,800 ⁵	1,550 ⁶	Cast iron concrete infill	100	225	300
AN-070-23	WPT9BG1500	PanelTim	Below	1,500	1,000 ⁵	2,400 ⁵	1,450 ⁶	Cast iron concrete infill	100	225	300
AN-070-24	WPT9BG2000	PanelTim	Below	2,000	1,000 ⁵	2,800 ⁵	1,470 ⁶	Cast iron concrete infill	100	225	300
AN-070-25	WPT9AG2500 ⁸	PanelTim	Above	2,500	1,030	2,950	1,360	Gas tight plastic	100	225	300
AN-070-26	WPT9AG3000 ⁸	PanelTim	Above	3,000	1,130	3,150	1,360	Gas tight plastic	100	225	300
AN-070-27	WPT9AG4000 ⁸	PanelTim	Above	4,000	1,480	3,150	1,360	Gas tight plastic	100	225	300
AN-070-28	WPT9AG5000 ⁸	PanelTim	Above	5,000	1,630	3,150	1,480	Gas tight plastic	100	225	300
AN-070-29	WPT9AG6000 ⁸	PanelTim	Above	6,000	1,930	3,150	1,480	Gas tight plastic	100	225	300
AN-070-30	WPT9AG7500 ⁸	PanelTim	Above	7,500	1,930	3,750	1,560	Gas tight plastic	100	225	300
AN-070-31	WPT9AG10000 ⁸	PanelTim	Above	10,000	2,130	4,150	1,610	Gas tight plastic	100	225	300

Approval certificate

Trade waste pre-treatment product



Approval Number	Model	Make	Install Type ¹	Capacity (L)	Width (mm)	Length (mm)	Height ³ (mm)	Access Lid Type	Inlet/Outlet Diameter (mm)	Inlet Height ⁷ (mm)	Outlet Height ⁷ (mm)
AN-070-32	WPT2500BG ⁵	PanelTim	Below	2,500	1,400 ⁵	3,000 ⁵	1,510 ⁶	Cast iron concrete infill	100	225	300
AN-070-33	WPT3000BG ⁵	PanelTim	Below	3,000	1,400 ⁵	3,400 ⁵	1,500 ⁶	Cast iron concrete infill	100	225	300
AN-070-34	WPT4000BG ⁵	PanelTim	Below	4,000	1,400 ⁵	3,400 ⁵	1,880 ⁶	Cast iron concrete infill	100	225	300
AN-070-35	WPT5000BG ⁵	PanelTim	Below	5,000	1,400 ⁵	4,500 ⁵	1,750 ⁶	Cast iron concrete infill	100	225	300
AN-070-36	WRT3000BG ⁵	PanelTim	Below	3,000	1,300 ⁵	3,400 ⁵	1,675 ⁶	Cast iron concrete infill	100	225	300
AN-070-37	WRT4000BG ⁵	PanelTim	Below	4,000	1,300 ⁵	3,400 ⁵	2,055 ⁶	Cast iron concrete infill	100	225	300
AN-070-38	WRT5000BG ⁵	PanelTim	Below	5,000	1,600 ⁵	3,900 ⁵	1,725 ⁶	Cast iron concrete infill	100	225	300
AN-070-39	WRT6000BG ⁵	PanelTim	Below	6,000	1,600 ⁵	4,300 ⁵	1,825 ⁶	Cast iron concrete infill	100	225	300
AN-070-40	WRT7500BG ⁵	PanelTim	Below	7,500	1,700 ⁵	4,300 ⁵	2,005 ⁶	Cast iron concrete infill	100	225	300
AN-070-41	WRT10000BG ⁵	PanelTim	Below	10,000	2,000 ⁵	4,500 ⁵	2,225 ⁶	Cast iron concrete infill	100	225	300

1: Above or Below Ground; 2: Internal; 3: Not including lid cover; 4: External; 5: Includes base; 6: Does not include base or lid cover; 7: From top of tank; 8: The MEDIUM and LARGE units can only be installed as single units. Where the installation of the MEDIUM or LARGE units are proposed then a formal Water Corporation Trade Waste plumbing assessment of the overall waste stream processes must first be made (and approved) to determine if the MEDIUM or LARGE unit is the most appropriate form of pre-treatment.

Special conditions of approval

- The product shall be *supplied* with manufacturer's installation instructions and recommended procedures for operation and maintenance.
- The product shall be *installed* and *maintained* strictly in accordance to the following Viking documentation:
 - Thin-Skin Tank Below Ground Installation Guidelines (September 2017)
 - Paneltim® Tank Below Ground Installation Guidelines (September 2017)
 - Riser Installation Guidelines – Thin Skin Tank (September 2017)
 - Riser Installation Guidelines – Paneltim™ (September 2017)
 - Installation & Cleaning Guidelines - above ground tanks (September 2017)
- This approval certificate is not a stand-alone document and **must be read** in conjunction with the following Water Corporation documents:
 - Typical Drawings for Trade Waste – Grease Arrestor (HX33-10-00)*
 - Grease Arrestor Installation Guidelines (PUB-23-B)*
- A maintenance contract is to be in place to ensure the ongoing reliability of the product.
- Water Corporation must be notified within fourteen (14) days upon installation of the product
- The use of emulsifying agents upstream of the product must not occur. Such instructions must be noted on operating documentation.
- The product chosen must be suitably sized to avoid surge conditions.
- Clear access for the purposes of maintenance or servicing of the pre-treatment device must be maintained at all times.
- 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.
- 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.
- 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.
- 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.
- Water Corporation shall be notified in writing if the pre-treatment device is withdrawn from sale.
- The proponent of the approved product accepts that the information provided in this document shall be made publically available.

General conditions of approval

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

- If there is a breach of the Special Conditions.
- The assigned **Validity Period** has expired from the **Date Issued** of this approval certificate.
- The product shall be manufactured in accordance with Water Corporation's requirements at the time of approval.
- The product shall be manufactured to comply according to the details noted in the approved drawings noted below, in addition to any further details provided by the proponent when seeking this approval.
- 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.
- All discharges to sewer associated with this product must not exceed Water Corporation's *Trade Waste Acceptance Criteria*.
- 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.
- 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:

- 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.
- The ownership of the primary manufacturer or any subcontractors is varied from that at time of approval.
- The standards and/or specifications to which the product was required to comply with at the time of approval have been amended or revised.
- The product has been found to sustain damage or provide unsatisfactory performance on occasions of number considered excessive by Water Corporation, when handled, stored, assembled or installed in accordance with the supplier's or manufacturer's written instructions.

Approval certificate

Trade waste pre-treatment product



Approved drawing(s):

1. Grease Interceptor Thin-Skin Below Ground WA (Sep 2017)
2. Grease Interceptor Thin-Skin Above Ground WA (Sep 2017)
3. Grease Interceptor WA Above Ground Panel-Tim (Sep 2017)
4. Grease Interceptor Panel Tim Below Ground WA (Sep 2017)
5. Grease Interceptor WA Above Ground Panel-Tim Large (Sep 2017)
6. Grease Interceptor WA Above Ground Panel-Tim Medium (Sep 2017)
7. Grease Interceptor WA Below Ground Panel-Tim Large (Sep 2017)
8. Grease Interceptor Thin-Skin Below Ground Large WA (May 2018)

Authorising person:

Stephen Jerkovic (Team Leader – Investigations)

Date issued

31 July 2018

Validity period:

Two (2) years