

# Trade waste plumbing requirements

## Plumbing Advisory Note

Revised March 2026

### Requirements exist which are specific to the connection of trade waste pre-treatment devices connected to the sanitary drainage system.

The Office of the Technical Regulator (OTR) regulate the installation of pipework connected to the inlet and outlet of any pre-treatment device, including the associated venting requirements.

The OTR require a hydraulic design to be submitted for all trade waste plumbing installations, the submission must be provided to the OTR 14 days prior to the installation. All trade waste plumbing installations must be booked in for auditing with the OTR.

All trade waste pre-treatment devices shall connect to the sanitary drainage system via a disconnector gully.

### Pre-treatment requirements

Valid authorisation is required before discharging trade waste into the sewer.

An application must be submitted to SA Water for approval to discharge trade waste. SA Water will provide the applicant with the minimum trade waste pre-treatment requirements.

If the trade waste system is not connected to SA Water infrastructure, consult the relevant water industry entity for pre-treatment requirements.

### Venting requirements

The following venting requirements for trade waste apply:

- The South Australia variations within the PCA require a wind driven turbine cowl on the upstream vent that shall be connected to the upstream end of the common discharge pipe connected to the pre-treatment device.
- The minimum size upstream vent connected to the common discharge pipework in DN 80. The vent should be installed between the last 2 fixtures.
- Wind driven turbines shall not be fitted on trade waste stacks that exceed 8 levels in height.

- The chamber vent shall be installed on the downstream end of the chamber close to the outlet and shall be a minimum of DN80 mm.
- The upstream, tank and sealed gully vents associated with trade waste systems shall be vented to atmosphere and not be interconnected to any other vent in accordance with AS/NZ 3500.2 clause 6.9.
- Air admittance valves (AAVs) can only be installed on trade waste branches and trap vents in accordance with AS/NZ 3500.2 clause 6.10.
- Chem vent AAVs can be installed in applications where chemicals or acid are being used (refer to the manufacturer's specifications).
- Charcoal vents shall not be used on trade waste installations.

### Silt traps

Silt traps shall be fit for purpose and constructed of approved materials.

The following fixtures/appliances may be connected to a silt trap:

- potato peelers
- hand basins
- preparation sinks
- kitchen sinks.

NOTE: Pot sinks shall not connect to a silt trap. They shall be connected individually to the trade waste drain.

The maximum length of a DN50 (or smaller) trapped waste pipe discharging to a silt trap is 6 m.

The maximum length of a DN65 (or larger) trapped waste pipe discharging to a silt trap is 10 m.

### Plaster traps

Sinks shall discharge untrapped to a plaster trap. Plaster traps shall discharge to a suitable disconnector gully.

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## Trade waste pipework, equipment and materials

The disconnecter gully on the outlet of the trade waste arrestor shall not have any other waste discharge. It may dilute or alter the quality of the discharge.

The only exemption to this is for the connection of a tundish that is for the sole purpose of providing a point of discharge for an RPZD that is protecting the SA Water required grease arrestor washdown tap. This applies only when it is not practicable to connect a tundish to the sanitary drainage system.

All grease arrestor covers cast in concrete paths shall be at least 50 mm above the surrounding finished ground level to prevent the ingress of surface water.

When selecting the material to be used for connection, it is important to consider:

- hot water discharges such as those from:
  - pasta cookers
  - woks
  - combi ovens
  - dishwashers
- the temperature of the waste water discharges
- the risk of corrosion and degradation.

Note: Glass washers are not required to be connected to a pre-treatment device.

## Food waste disposal units

The installation of food waste disposal units is assessed by SA Water on a case by case basis. Installation is only approved under special circumstances or when alternative solutions don't exist.

## Pumping trade waste discharges to a grease arrestor

When pumping trade waste discharges to a grease arrestor, the following requirements apply:

- The pump station shall be fit for purpose and sized adequately.
- Vents from pumping stations shall be a minimum size of DN 50 and shall be positioned a minimum of 100 mm above the waste inlet.
- Pumps shall be suitable for the application for both temperature and nature of the discharge, for example, fat, solids etc.
- Waste pumped to a grease arrestor shall enter through a 45° junction.
- The minimum length of the drain gravitating to an arrestor is 500 mm.
- An inspection opening shall be installed on the trade waste drain inlet to the arrestor for sampling purposes.

## Connection of fixtures in trade waste installations

The following table lists typical fixtures in a trade waste installation. Specific requirements included in a SA Water Trade Waste Permit may take precedence over those in the table.

- P - Permitted
- GA - Grease arrestor
- NP - Not permitted
- NR - Not required.

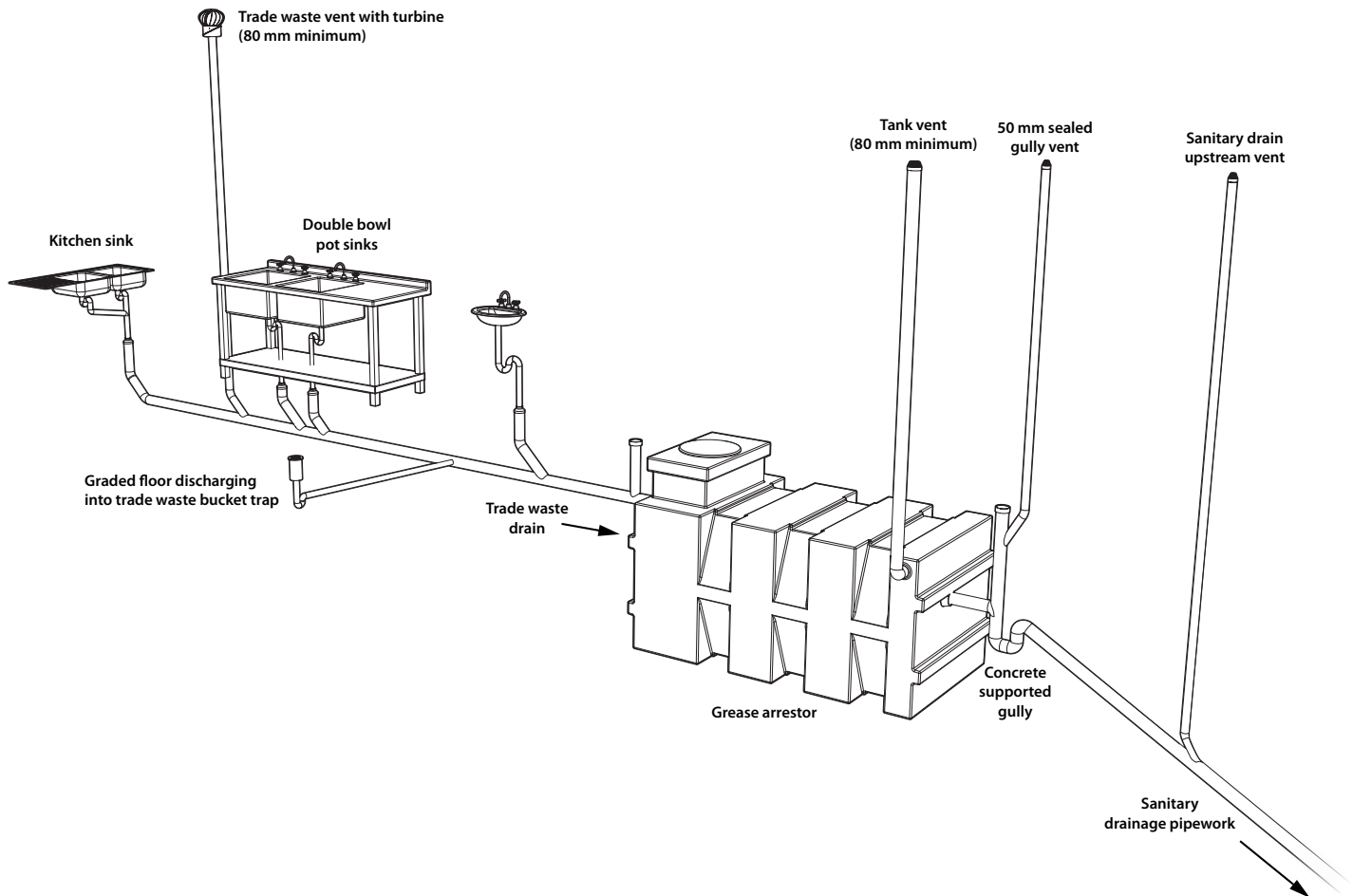
Fixture	Silt trap	Trade Waste drain	Sewer drain	Pre-treatment
Basin in a commercial kitchen	Y	Y	Y	Strainer not required
Commercial kitchen	Y	Y	Y	GA
Bain marie	NP	P	NP	GA
Bar sink	NP	P	P	
Bar sink adjacent coffee machine	NP	P	P	N/R
Cleaners sink in commercial kitchen	NP	P	NP	GA
Dishwasher	NP	P	NP	GA
Food waste disposal	NP	NP	NP	NP
Glass washer	NP	P	P	
Kitchen sink	P	P — strainers 3 mm maximum hole size with fixed secondary strainers	NP	GA
Preparation sink	P	P — strainers 3 mm maximum hole size with fixed secondary strainers	NP	GA
Pot sink	NP	P — strainers 3 mm maximum hole size with fixed secondary strainers	NP	GA
Launderette	P	NP	P	
Commercial laundry	Cooling channel/ screens/ silt trap	NP	P	Refer SA Water guideline
Pasta cooker	Cooling channel/ silt trap	P	NP	GA
Potato peeler for chips	P	P	NP	GA
Refrigerated cabinets	NP	P	P	
Steam oven	NP	P	NP	GA
Wok cooker	NP	P — strainers 3 mm maximum hole size with fixed secondary strainers	NP	GA

### Notes

In applications where silt traps are the only pre-treatment required, they shall discharge to a disconnecter gully.

For further information on SA Water's Trade Waste Information, please visit [sawater.com.au](http://sawater.com.au).

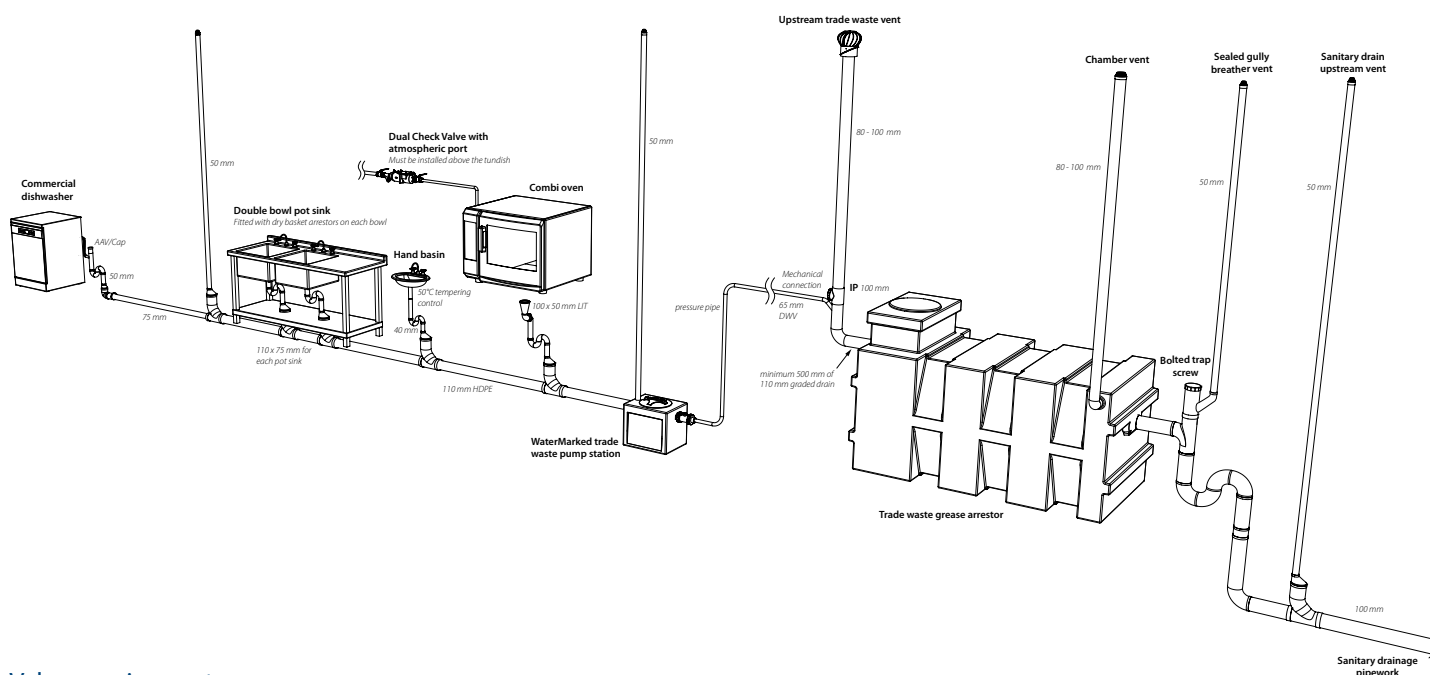
# Typical trade waste installation



## Notes

1. Vents associated with trade waste systems shall be vented to atmosphere and not be interconnected to any other vent.
2. SA water requires a tap to be installed/ located within 5 m of the arrester/pit for cleaning and maintenance purposes. The tap shall have an appropriate high hazard individual backflow prevention device complying with the Plumbing Code of Australia (PCA).
3. Sealed gully breather vent may interconnect with tank vent, this interconnection shall be a minimum of 300 mm above lowest fixture connected to arrester.

# Alternate trade waste installation



## Valve requirements

- Combi Ovens require a low hazard individual backflow prevention device for ovens without an in place cleaning system. Ovens with an in place cleaning system require a high hazard individual backflow prevention device.
- Basins require temperature control via a tempering valve (50°C max).
- The network utility operators drinking water supply from the authority requires containment protection in accordance with the PCA at the point of connection to the water meter.
- A wash down tap is required by the grease arrester that is protected via a high hazard individual backflow prevention device no greater than 5 m away from the arrester.
- Any external hose taps that are within 18 m of the grease arrester will also require cross-connection via a high hazard individual backflow prevention device.

## Additional information

For more information about trade waste installations visit [https://www.sawater.com.au/\\_data/assets/pdf\\_file/0009/165591/Basic-Pre-treatment-Devices-Design-Installation-and-Accessibility-v3.pdf](https://www.sawater.com.au/_data/assets/pdf_file/0009/165591/Basic-Pre-treatment-Devices-Design-Installation-and-Accessibility-v3.pdf)

**Contact the Office of the Technical Regulator for more information**

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