

# Floor waste gully outlet sizing

## Plumbing Advisory Note – July 2019

Floor Waste Gully (FWG) outlets must be sized correctly to the fixture unit load.

The installation of FWGs must be in compliance with AS/NZS3500.2:2018.

Table 4.6.7.9 sets out the minimum size of a FWG outlet relevant to the fixture units discharging into the gully trap.

**Table 4.6.7.9 - Floor waste gully outlet size**

Maximum number of fixture units discharging into gully trap	Minimum nominal size of outlet
3	50 mm
10 (including discharge from not more than one bath)	65 mm
15	80 mm

**Note: A shower outlet may be used as a floor waste gully**

### FWGs with 100 mm outlets

FWGs with 100 mm outlets are not specified in Table 4.6.7.9. They must only be used in trade-waste and commercial applications that warrant larger FWG outlets due to high volume discharges and increased access requirements.

## Legislative requirements

The *National Construction Code Series Volume Three – The Plumbing Code of Australia (PCA)*, Part C specifies the requirements for the design, construction, installation, replacement, repair, alteration and maintenance of any part of a sanitary plumbing system.

### Trade waste and Commercial/Industrial installations.

FWGs with 100 mm outlets should only be installed where required in the following installation types:

- **Trade Waste**

FWG discharging to a grease arrestor may be installed with a 100 mm (PVC) or 110 mm (HDPE) outlet size, to allow greater access for mechanical/hydro jet cleaning of the pipework as the build-up of grease in this type of system is problematic.

- **Commercial/Industrial**

- Where a FWG is accepting the discharges from a Plant room, and the total fixture unit load necessitates a 100 mm outlet size.
- Correctional facilities (where required)
- Where required for high volume discharges.

Contact the Office of the Technical Regulator for more information

Online: [sa.gov.au/otr](http://sa.gov.au/otr)

Email: [otr.plumbregulator@sa.gov.au](mailto:otr.plumbregulator@sa.gov.au)

Phone: 1300 760 311



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## Hospitals and nursing homes may specify 100 mm risers to FWGs.

When 100 mm FWG risers are specified for a specific installation, to comply with AS/NZS 3500.2:2018 the following applies:

- 100 x 65 mm FWGs should be installed if discharging direct to the sanitary drain.
- 100 x 50 mm FWGs may be used in a shower if discharging to a FWG with a minimum 65 mm outlet in the same room.

**Note: AS/NZS 3500.2:2018 Appendix B does not allow a FWG with a 50 mm outlet to discharge directly to a sanitary drain.**

## FGW risers

FWG risers must be installed with an accessible removable grate and have a riser of not less than 80 mm diameter to the finished surface level (100 mm diameter risers are permitted).

The height of the riser from the top of the water seal shall be a maximum of 600 mm in length.

The minimum height of the floor waste gully riser shall conform with AS/NZS 3500.2 Table 4.6.7.7.

For floor waste gullies with submerged inlets, the minimum height shall be 100 mm.

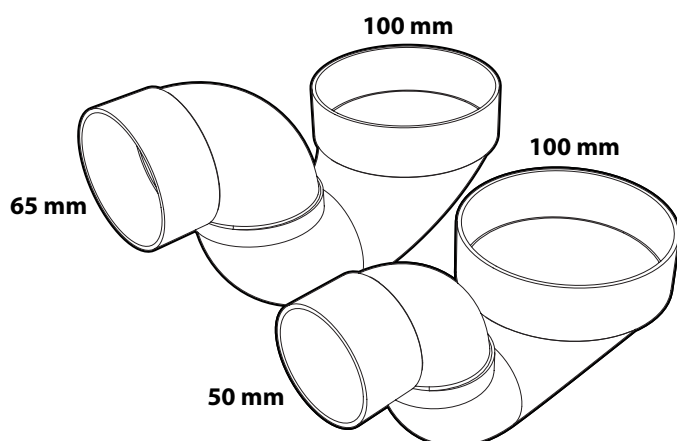


Figure 1 - 100 x 65 and 100 x 50 FWG/shower outlets

**Table 4.6.7.7 - Minimum height of floor waste gully risers**

Waste fixtures connected to gully riser	Size of gully riser	Minimum height (water seal to floor level)	
		88° entry	45° entry
All waste fixtures including maximum one bath	DN 80	200 mm	150 mm
	DN 100	150 mm	100 mm

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