



On-site domestic wastewater treatment units

Part 4: Domestic greywater treatment systems



This Australian Standard® was prepared by Committee WS-040, On-site Domestic Wastewater Treatment. It was approved on behalf of the Council of Standards Australia on 23 September 2016.

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- Association of Accredited Certification Bodies
 - Association of Rotational Moulders Australasia
 - Australian Building Codes Board
 - Australian Chamber of Commerce and Industry
 - Australian Industry Group
 - Australian Local Government Association
 - Australian Wastewater Treatment Association
 - Australian Water Association
 - Certification Interests (Australia)
 - Department of Housing and Public Works
 - Engineers Australia
 - Environment Protection Authority Victoria
 - Environmental Health Professionals Australia
 - Master Plumbers and Mechanical Services Association of Australia (Victoria)
 - Master Plumbers Australia
 - National Precast Concrete Association of Australia
 - National Recycled Water Regulators Forum
 - NSW Ministry of Health
 - SA Health
 - University of Technology, Sydney
 - Waste Management Association of Australia
 - Water Services Association of Australia
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Australian Standard[®]

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PREFACE

This Standard was prepared by the Standards Australia Committee WS-040, On-site Domestic Wastewater Treatment.

This Standard is part of a series for on-site domestic wastewater treatment units, as follows:

AS/NZS

- 1546 On-site domestic wastewater treatment units
- 1546.1 Part 1: Septic tanks
- 1546.2 Part 2: Waterless composting toilets
- 1546.3 Part 3: Aerated wastewater treatment systems

AS

- 1546.4 Part 4: Domestic greywater treatment systems (this Standard)

This Standard incorporates a Commentary on some Clauses. The Commentary directly follows the relevant Clause, is designated by 'C' preceding the clause number and is printed in italics in a panel. The Commentary is for information only and does not need to be followed for compliance with the Standard.

The terms 'normative' and 'informative' have been used in this Standard to define the application of the appendix to which they apply. A 'normative' appendix is an integral part of a Standard, whereas an 'informative' appendix is only for information and guidance.

The word 'shall' identifies a mandatory requirement for conformity with this Standard. The word 'should' refers to practices which are advised or recommended.

Statements expressed in mandatory terms in notes to tables are deemed to be requirements of this Standard.

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STANDARDS AUSTRALIA

Australian Standard

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Part 4: Domestic greywater treatment systems

SECTION 1 SCOPE AND GENERAL

1.1 SCOPE OF STANDARD

This Standard sets out requirements for the design, commissioning, performance, installation and conformity testing of domestic greywater treatment systems (DGTSs) and associated fittings for single domestic premises where backflow protection is provided in accordance with AS/NZS 3500.1.

DGTSs covered by this Standard are those designed for greywater flows up to a maximum of 1000 L/d, from a population equivalent of up to 10 persons (see Note 3).

NOTES:

- 1 It is not intended that this Standard preclude the use of a DGTS in premises other than single residential applications, provided the source greywater is from domestic activities and the regulatory requirements for that application and jurisdiction are satisfied.
A DGTS that is suitable for treating a given residential population equivalent may not be suitable for some non-residential sites such as restaurants, colleges and offices. The composition of the greywater from such sources may be significantly different to those from residential sources.
- 2 Guidance on installation, operation and maintenance of DGTSs is provided in Appendices E and F respectively.
- 3 DGTSs designed with larger capacities may operate successfully when conforming to this Standard. However, care is needed to ensure that there are no additional technical issues that might influence performance. Simple linear scaling-up is not always appropriate, and more specific design and testing may be necessary.

1.2 EXCLUSIONS

This Standard does not cover—

- (a) sanitary plumbing or drainage systems conveying greywater to the DGTS;
- (b) sanitary plumbing or drainage systems conveying treated greywater from the DGTS for internal re-use or to the land application system (as defined in AS/NZS 1547);
- (c) sanitary plumbing or drainage systems conveying excess or diverted greywater and/or treated greywater from the DGTS to the sewer;
- (d) the land application system;
- (e) greywater diversion devices (see Note 1);
- (f) treatment of spa pool or swimming pool water;
- (g) compliance criteria for nutrient reduction (see Note 2); and
- (h) compliance criteria or test protocol for secondary wastewater treatment systems.