

Tasmanian Plumbing Code 1994

PART C1 - PRODUCT AUTHORISATION REPORT and CONDITIONS No. BSR0444/2005

TYPE OF PRODUCT:	Greywater diversion valve assembly
TITLE:	NYLEX GREYWATER DIVERTA™ Model: GYWATDIV65R
APPLICANT:	Nylex Corporation Pty Ltd - ABN: 21 084 725 002 Trading As: Nylex Water Conservation 50-70 Stanley Drive, Somerton, Vic. 3062 Contact: Nylex Water Conservation Tel: 1300 139 169
MANUFACTURER:	Nylex Corporation Pty Ltd - ABN: 21 084 725 002 50 – 70 Stanley Drive Sumerton Victoria 3062
PRODUCT DESCRIPTION:	<ul style="list-style-type: none"> • The Greywater Diverta™ (<i>GWD</i>) is a greywater diversion device that receives wastewater from a laundry trough, washing machine, hand basin, shower or bath and diverts it to an approved subsurface land application system. • The <i>GWD</i> includes a gate valve assembly which when operated diverts the greywater to the subsurface land application system. • The <i>GWD</i> is fitted with a gas-tight inspection/access opening to enable servicing and cleaning of removable parts eg stainless steel basket-strainer which screens lint, hair and other non-liquid material from the wastewater. • The coarse screened greywater is delivered from the <i>GWD</i> to the subsurface land application system for uptake by plants and vegetation. • Should the <i>GWD</i> become blocked or the land application system become overloaded at any time the <i>GWD</i> has an inbuilt overflow feature that redirects the greywater back to the primary on-site waste water management system. • All connections 65mm DWV • Maximum fixture unit rating of 15
SPECIFICATION:	Constructed from PVC-U and ABS plastics, and stainless steel components with serviceable nitrile-rubber water/gas seals. Removable stainless steel mesh basket strainer (~1mm mesh).
SUPPORTING DOCUMENTS:	<ul style="list-style-type: none"> • Application and product description dated 9 February 2005 • 'Greywater Diverta™ Installation and Operation Instructions' manual • Appendix 1b Nylex Laundry V2 181004.pdf • Specifications provided on CDROM (DIER Ref. No. F0013305)
CONDITIONS OF AUTHORISATION:	See Schedule 1 for conditions See Schedule 2 for identification image
NOTE:	<p>The Greywater Diverta™ is not permitted for installation in Sewered Areas.</p> <p>This authorisation does not represent an endorsement of this product by the Minister or the Department of Infrastructure, Energy and Resources.</p> <p>This authorisation replaces the authorisation granted to the Grey Water Saver authorised under this number (BSR0444/2003)</p>

SCHEDULE 1**CONDITIONS OF ACCREDITATION FOR NYLEX GREYWATER DIVERTA™ .****Definitions**

In this schedule:

Act means the *Building Act 2000*.

AS/NZS 1547 means the Joint Australian/New Zealand Standard “AS/NZS 1547:2000 On-site domestic-wastewater management”;

DIER means “the Department of Infrastructure, Energy and Resources”;

DESIGNER means “a person who has a expertise in the area of designing on-site waste water management systems and may include but not be restricted to appropriately trained professional engineers, soil scientists, land surveyors and plumbers”;

Permit means “a Permit issued by the permit authority having jurisdiction pursuant to the Act and the Tasmanian Plumbing Regulations”;

TPC means the “Tasmanian Plumbing Code”.

1. General conditions

The *Greywater Diverta™ (GWD)* is authorised for use in certain plumbing installations in Tasmania in accordance with Specification C1.8.3 of the TPC, subject to the following conditions:

1.1. The *GWD* must not be used to reduce the design capacity of the primary on-site waste water management system;

1.2. Only *GWD*'s displaying Standards Australia TypeTest Mark AS52: 460 Licence No.: PST20057 are permitted to be installed;

1.3. The *GWD* is authorised for use to divert domestic greywater originating from a shower, bath, hand basin, clothes washing machine or laundry trough and must not be used to divert:

- i. kitchen wastewater;
- ii. toilet wastewater;
- iii. wastewater from a laundry that is likely to contain faecal contamination (eg soiled nappies);
- iv. wastewater resulting from the bathing of animals; or
- v. wastewater from swimming pool/spa overflow or filter backwash;

1.4. A copy of the following information shall be provided by the manufacturer to each purchaser of a *GWD*:

- i. statement of warranty;
- ii. ***Greywater Diverta™ Installation and Operation Instructions***; and
- iii. this report and conditions;

1.5. The piped irrigation trench system detailed in the manufacturers literature does not form part of this authorisation and may only be used where it has been demonstrated to the permit authority that the system meets the relevant requirements of AS/NZS 1547;

1.6. The certificate of authorisation and report must not be used in any form of advertising, packing or labelling of the product;

2. ***Installation conditions***

2.1. The ***GWD*** is only permitted to be installed where an approved on-site waste water management system is installed or is to be installed;

2.2. The ***GWD*** must only be installed in conjunction with a special plumbing permit issued under the Act and Plumbing Regulations;

2.3. The ***GWD*** must be supplied, constructed and installed in accordance with the design and specifications submitted to SAI Global for Product Certification dated 3 November 2003;

2.4. The ***GWD*** must be easily accessible to the owner and be located and oriented in accordance with the following:

- i. the operating and instruction label must be in a position where it is readily visible;
- ii. unobstructed access must be available for the owner to the inspection opening, filter basket, diverter valve and any other components requiring maintenance/servicing;

2.5. A copy of the “***Greywater Diverta™ Installation and Operation Instructions***” manual, and these Conditions of Authorisation must be supplied with an application for a special plumbing permit to install a ***GWD***;

2.6. All plumbing work must be carried out in accordance with the requirements of the Act and Plumbing Regulations;

2.7. A ***GWD*** must not be installed where an Overflow Relief Gully (ORG) is not present. The overflow weir of the ***GWD*** must be at least 150mm above the ORG;

2.8. Each sub-surface irrigation area must indicate the presence of buried pipes by:

- i. using underground marking tape to AS/NZS 2648.1; or
- ii. by signage. Signs must be prominently displayed with words on a white background with red lettering at least 20mm high (in accordance with AS 1319, Safety signs for the occupational environment). The sign must state:

**Recycled greywater pipework
installed below. DO NOT DIG**

3. *Operational conditions*

The owner must ensure that the products collected by the **GWD** filter are to be disposed of in a hygienic manner which is not harmful to the environment or the on-site waste water management system;

3.1. The **GWD** must not divert wastewater that:

- i. has been contaminated by faecal matter (i.e. soiled nappies);
- ii. has been used in the preparation of food;
- iii. has been used to wash domestic animals; or
- iv. contains potentially harmful substances (i.e. hair dyes and bleaches);

3.2. Detergents high in sodium (i.e. greater than 20g/wash) must not be used in wastewater being diverted through the **GWD**;

3.3. All detergents used in the wastewater to be discharged are to be of a low phosphorus type and be in the region of a neutral pH level;

3.4. The **GWD** must not be used to divert more than a 1000 litres of greywater a day;

4. *Waste Discharges*

4.1. Effluent permitted to be diverted through the **GWD** must:

- i. not be applied above the land surface or allowed to reach the land surface;
- ii. not be discharged directly into or reach any stormwater drainage system, water course or contaminate any domestic water supply;
- iii. discharge to the environment by means of subsurface irrigation only and in a manner that the effluent is contained within the premises at all times to the satisfaction of the Council; and

4.2. The effluent reuse system must be assessed, designed and constructed in accordance with the appropriate provisions of AS/NZS 1547;

4.3. Surface irrigation of greywater from the **GWD** must not be permitted at any time;

5. *Monitoring and maintenance conditions*

Regular monitoring and maintenance of the system must be carried out to ensure the **GWD** and its associated land application system are operating properly.

5.1. The owner or occupier of the premises where the **GWD** is installed must take all reasonable precautions to ensure that the wastewater is not ponding, running off-site, negatively impacting on soil stability, causing odours, causing environmental harm or causing risk to public health.

5.2. Inspection openings and covers are to be installed with each associated trench irrigation system to facilitate the monitoring of the effluent level in each trench and the maintenance and clearing of blockages, and must comply with the following:

- a) inspection openings and covers must:
 - i. be located to give adequate access to monitor the performance of the irrigation system;
 - ii. have a cross sectional area of not less than 7, 500 mm²;
 - iii. be extended to the finished ground level;
 - iv. provide a durable and watertight seal;
 - v. be durable and able to withstand superimposed loads; and
 - vi. be provided with covers which are easily removable and replaceable;

5.3. Maintenance and servicing of the **GWD** and its associated land application system must be carried out in accordance with the manufacturers and system designers instructions to ensure the system is operating properly;

5.4. Where monitoring identifies the need for remedial action, this information must be communicated to the permit authority having jurisdiction.

SCHEDULE 2

GREYWATER DIVERTA™

Nylex
Greywater
Diverta™



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AS 52:460 Lic 20057
Standards Australia

Type Tested