



## BRANZ Appraised

Appraisal No. 934 [2016]

## JESANI® SHOWER AND DOOR CHANNELS

Appraisal No. 934 [2016]



### BRANZ Appraisals

Technical Assessments of products for building and construction.



#### Jesani Ltd

PO Box 33 662  
Takapuna 0740  
Auckland

Tel: 0800 JESANI [537 264]

Web: [www.jesani.co.nz](http://www.jesani.co.nz)

Email: [solutions@jesani.co.nz](mailto:solutions@jesani.co.nz)



#### BRANZ

1222 Moonshine Rd,  
RD1, Porirua 5381  
Private Bag 50 908  
Porirua 5240,  
New Zealand  
Tel: 04 237 1170  
[branz.co.nz](http://branz.co.nz)



## Product

- 1.1 Jesani® Shower and Door Channels are stainless steel floor wastes.
- 1.2 The Jesani® Shower Channel is a linear floor waste trough used in showers.
- 1.3 The Jesani® Door Channel is designed for use in doorways between wet and dry areas.

## Scope

- 2.1 Jesani® Shower Channels have been appraised for use as floor wastes to receive and direct intentional discharges from showers to the plumbing system.
- 2.2 Jesani® Door Channels have been appraised for use as floor wastes to receive accidental discharges in the doorway junction between wet and dry areas of buildings.
- 2.3 Jesani® Shower and Door Channels have been appraised for use with concrete floors or timber framed floors in conjunction with a waterproofing membrane protected from physical damage by ceramic or stone tile finishes.

## Building Regulations

### New Zealand Building Code [NZBC]

- 3.1 In the opinion of BRANZ, Jesani® Shower and Door Channels if designed, used, installed and maintained in accordance with the statements and conditions of this Appraisal, will meet or contribute to meeting the following provisions of the NZBC:

**Clause B2 DURABILITY:** Performance B2.3.1 (b), 15 years and B2.3.2. Jesani® Shower and Door Channels meet these requirements. See Paragraph 9.1.

**Clause E3 INTERNAL MOISTURE:** Performance E3.3.2 and E3.3.6. Jesani® Shower and Door Channels contribute to meeting these requirements. See Paragraphs 12.1 and 12.2.

**Clause F2 HAZARDOUS BUILDING MATERIALS:** Performance F2.3.1. Jesani® Shower and Door Channels meet this requirement and will not present a health hazard to people.

**Clause G13 FOUL WATER:** Performance G13.3.1 (a), G13.3.1 (b) and G13.3.1 (d). Jesani® Shower and Door Channels contribute to meeting these requirements. See Paragraphs 10.1 and 11.1 - 11.2.

## Technical Specification

- 4.1 Components supplied by Jesani Ltd are as follows:
- **Jesani® Shower Channels** are manufactured from Grade 304 or 316 stainless steel with welded ends. The troughs are 130 mm high x 210 mm wide and vary in length to suit the shower design. The 50 mm diameter fixture discharge pipe connection is usually positioned centrally but can be located anywhere along the trough. An upstand flange allows the channel to be wall mounted or this flange can be horizontal for other locations in the shower.
  - **Jesani® Door Channels** are manufactured from Grade 304 or 316 stainless steel with welded ends. The troughs are 40 - 50 mm high [dependent on tile thickness] x 175 mm wide and vary in length to suit the door width. The 50 mm diameter floor waste pipe connection can be positioned anywhere along the trough to suit the layout.
- 4.2 Accessories supplied by the building contractor are as follows:
- Stainless steel screws for fixing the channel flange to the wall or floor.
  - BRANZ Appraised wet area waterproofing membrane.
  - Fibre cement sheet tile underlay complying with the requirements of AS/NZS 2908.2 and specified by the manufacturer as being suitable for use as a wet area membrane underlay.
  - Ceramic or stone tile finishes. These tile finishes are outside the scope of this Appraisal.

## Handling and Storage

- 5.1 Jesani® Shower and Door Channels are packaged in cardboard boxes specifically designed to fit the channels. They must be stored in their packaging, under cover and protected from damage until required for installation.

## Technical Literature

- 6.1 Refer to the Appraisals listing on the BRANZ website for details of the current Technical Literature for Jesani® Shower and Door Channels. The Technical Literature must be read in conjunction with this Appraisal. All aspects of design, use, installation and maintenance contained in the Technical Literature and within the scope of this Appraisal must be followed.

## Design Information

### General

- 7.1 Jesani® Shower and Door Channels are designed to be used with a concrete floor or plywood floor substrate and a fibre cement tile underlay. The tile underlay sits 20 mm over the floor flange of the shower or door channel.
- 7.2 The channels must be used in conjunction with a BRANZ Appraised wet area waterproofing membrane adhered to the floor flange of the shower or door channel. The suitability of the bonding of the waterproofing membrane to the Jesani® Shower and Door Channels must be checked with the supplier of the waterproofing membrane.
- 7.3 The concrete floor, timber floor framing, plywood substrate and the fibre cement tile underlay must comply with the requirements of the supplier of the waterproofing membrane.

### Wet Areas

- 8.1 Showers and shower areas must have a minimum fall of 1 in 50 to the Jesani® Shower Channel. In unenclosed showers, falls must extend a minimum of 1500 mm out from the shower rose. Falls must be made in the framing supporting the plywood. Other areas that are subject to water splash or accidental overflow need not have falls in the floor finish.

## Durability

### Serviceable Life

- 9.1 The serviceable life of Jesani® Shower and Door Channels, when subjected to normal conditions of environment and use, is expected to be compatible with the waterproofing membrane and floor finishes to which they are fitted.

## Maintenance

- 10.1 The channel grates are removable for cleaning and to clear blockages.

## Foul Water

- 11.1 The Jesani® Shower Channel must be connected to a PVC fixture discharge pipe which discharges to the sanitary plumbing system designed in accordance with NZBC Acceptable Solution G13/AS1 or AS/NZS 3500.2.
- 11.2 The Jesani® Door Channel must be connected to a PVC floor waste pipe that discharges either outside the building or to the sanitary plumbing system. When used with a water trap, consideration must be given to maintaining the level of water in the trap.

## Internal Moisture

- 12.1 Jesani® Shower and Door Channels are impervious to water and when appropriately designed and installed will prevent water from penetrating behind linings or entering concealed spaces.
- 12.2 The Jesani® Door Channel is suitable for use to contain accidental overflow from sanitary fixtures or sanitary appliances to meet NZBC Clause E3.3.2.

## Installation Information

### Installation Skill Level Requirements

- 13.1 Installation must always be carried out in accordance with the Jesani® Shower and Door Channels Technical Literature and this Appraisal by, or under the supervision of a Licensed Building Practitioner (LBP) with the relevant Licence Class, and/or a Licensed Plumber.

## Installation

### Timber Floor

- 14.1 Jesani® Shower Channels are installed by cutting the correct sized hole for the trough in the plywood substrate. The channel is then screwed into the studs (for wall fixing) or the plywood on either side of the cut slot in the floor (for floor fixing) using the pre-drilled holes in the flanges. The walls are then lined, ensuring a minimum 20 mm overlap over the upstand flange. The floors are lined with a tile underlay, ensuring a minimum 20 mm overlap over the floor flange.
- 14.2 Jesani® Door Channels are installed by cutting the correct sized hole for the trough in the plywood substrate. The flanges of the channel are fixed to the timber framing using the pre-drilled holes, ensuring the wider flange sits on the wet room side of the door. The tile underlay must overlap the floor flange by a minimum of 20 mm. The waterproofing membrane on the wet room side of the door channel must completely cover the flange. On the dry side of the door channel, carpet smooth edge is installed on the door channel flange against the upstand and the carpet fixed accordingly.

### Concrete Floor

- 14.3 Jesani® Shower and Door Channels are installed by boxing out the area required for the channels, ensuring the concrete floor can be constructed with the correct falls later. The channel is then installed, connecting with the waste pipe. Concrete is packed around the channel to allow it to sit firmly in position and allowed to dry for a minimum of 12 hours. The concrete for the remainder of the shower base is then poured, ensuring correct falls to the channel from all areas. Once the concrete has dried, nylon plugs and screws are used to hold the channel in place using the pre-drilled holes.

### Waterproofing and Tiling

- 14.4 The waterproofing membrane is finished onto the flanges ensuring the outlet is not covered. It is optional to waterproof into the trough. The grate is then inserted into the Jesani® Shower or Door Channel.
- 14.5 Tiling must be undertaken in accordance with AS 3958.1 and BRANZ 'Good Practice Guide – Tiling'.

### Inspections

- 15.1 The installation of Jesani® Shower and Door Channels should be inspected for watertightness at the same time as the membrane inspection. The pipework connection should be inspected along with the plumbing system inspection.

## Basis of Appraisal

The following is a summary of the technical investigations carried out:

### Tests

- 16.1 Adhesion tests of a number of BRANZ Appraised waterproofing membranes to the flanges of the drainage channels have been carried out by BRANZ. The results were reviewed by BRANZ experts and found to be satisfactory.

### Other Investigations

- 17.1 An assessment was made of the durability of Jesani® Shower and Door Channels by BRANZ technical experts.
- 17.2 Site and laboratory inspections were carried out by BRANZ to examine the practicability of installation.

### Quality

- 18.1 The manufacture of Jesani® Shower and Door Channels has been examined by BRANZ, and details regarding the quality and composition of the materials used were obtained by BRANZ and found to be satisfactory.
- 18.2 The quality of materials, components and accessories supplied by Jesani Ltd is the responsibility of Jesani Ltd.
- 18.3 The quality of installation on site is the responsibility of the floor channel installer and the membrane installer. Connection to the floor waste pipe is the responsibility of the installing plumber.

### Sources of Information

- AS/NZS 2908.2:2000 Cellulose-cement products – flat sheet
- AS/NZS 3500.2:2015 Plumbing and drainage – Sanitary Plumbing and Drainage
- AS 3958.1: 2007 Ceramic Tiles - Guide to the installation of ceramic tiles.
- Ministry of Business, Innovation and Employment Record of Amendments for Compliance Documents and Handbooks.
- The Building Regulations 1992.
- Good Practice Guide – Tiling, BRANZ, October 2015.




In the opinion of BRANZ, **Jesani® Shower And Door Channels** are fit for purpose and will comply with the Building Code to the extent specified in this Appraisal provided they are used, designed, installed and maintained as set out in this Appraisal.

The Appraisal is issued only to **Jesani Ltd**, and is valid until further notice, subject to the Conditions of Appraisal.

### Conditions of Appraisal

1. This Appraisal:
  - a) relates only to the product as described herein;
  - b) must be read, considered and used in full together with the Technical Literature;
  - c) does not address any Legislation, Regulations, Codes or Standards, not specifically named herein;
  - d) is copyright of BRANZ.
2. **Jesani Ltd**:
  - a) continues to have the product reviewed by BRANZ;
  - b) shall notify BRANZ of any changes in product specification or quality assurance measures prior to the product being marketed;
  - c) abides by the BRANZ Appraisals Services Terms and Conditions.
  - d) Warrants that the product and the manufacturing process for the product are maintained at or above the standards, levels and quality assessed and found satisfactory by BRANZ pursuant to BRANZ's Appraisal of the product.
3. BRANZ makes no representation or warranty as to:
  - a) the nature of individual examples of, batches of, or individual installations of the product, including methods and workmanship;
  - b) the presence or absence of any patent or similar rights subsisting in the product or any other product;
  - c) any guarantee or warranty offered by **Jesani Ltd**.
4. Any reference in this Appraisal to any other publication shall be read as a reference to the version of the publication specified in this Appraisal.
5. BRANZ provides no certification, guarantee, indemnity or warranty, to **Jesani Ltd** or any third party.

For BRANZ



**Chelydra Percy**

Chief Executive

Date of Issue:

23 September 2016