



# SPECIFICATION FOR JESANI® WETROOM DRAINAGE CHANNELS

## 1 SANITARY SYSTEM

### 1.1 Preliminary

Refer to general Conditions of Contract and the Special Conditions in this Specification as appropriate. Read this section in conjunction with all other trade sections.

### 1.2 Compliance

Comply with the New Zealand Building Code 1992 including all revisions and amendments, Verification Methods where appropriate, and construction principles that are embodied in the Acceptable Solutions.

Comply with all relevant provisions and recommendations of:

2908.2:2000 (AS/NZS)	Cellulose-cement products – Flat Sheets
3101.1&2:2006 (NZS)	Concrete Structures Standard
3500.2:2015 (AS/NZS)	Plumbing and drainage Part 2: Sanitary plumbing and drainage
3604:2011 (NZS)	Timber-framed buildings
3958.1:2007 (AS)	Ceramic tiles – Part 1: Guide to the installation of ceramic tiles
AS/NZS 2269.0:2012	Plywood-Structure – art 0: Specifications
NZBC G13	Foul Water

### **1.3 General**

Carry out all works necessary to leave the water, waste, vent, and soil systems serving the sanitary fittings and the plumbing hardware shown on the drawings or specified below in correct working order complete with all ancillary systems (safetrays, floor drains, overflows, relief valves, etc.) required, and with all normal incidentals customarily installed by this trade.

Comply with the Building code, Territorial Authority By-Laws, and statutory authority Regulations as appropriate. Obtain all necessary permits and consents, serve all necessary notices, arrange for all tests, and pay all fees and customary charges in connection with the required works.

### **1.4 Jesani® Wetroom Drainage Channels**

#### **1.4.1 Scope**

Supply Jesani® Wetroom Drainage Channels, as specified herein, to the locations and details shown on the design drawings, complete with all necessary components and accessories required for proper installation and performance. All aspects of this work shall comply with the NZ Building Codes, Jesani® technical literature and installation requirements (check [www.jesani.co.nz](http://www.jesani.co.nz), or email [solutions@jesani.co.nz](mailto:solutions@jesani.co.nz), or call 0800 537 264 for the latest editions), BRANZ Appraisal No. 934 (2016), and other relevant product manufacturers' recommendations.

No substitutions are permitted for Jesani® Wetroom Drainage Channels.

Jesani® Wetroom Drainage Channels are Lifemark® Approved products.

For the purpose of this specification, all Jesani Distributions Ltd associated technical literature and publications including installation instructions, detail drawings and BRANZ Appraisal, is collectively referred to as 'Technical Literature'.

This specification should read in conjunction with other relevant specification sections, in particular Waterproofing and Tiling, as they are interrelated.

The following is a list and/or general descriptions of the extent of the Jesani® Wetroom Drainage Channels works, which are more specifically defined in the contract documents, required for the completion of the contract works:

#### **1.4.2 Requirements**

##### *Safety*

Comply with the Health and Safety at Work Act 2015 (HSWA), and with all relevant Health and Safety at Work Regulations 2016, and with all relevant WorkSafe New Zealand 9WorkSafe) Approved Codes of Practice and WorkSafe Information and Guidance, particularly those for construction and building maintenance.

##### *Warranty*

Jesani Distributions Ltd Warranty – according to the warranty terms and conditions.

### *Substitutions*

Jesani® Wetroom Drainage Channels shall be as specified herein and on the design drawings. The substitution of Jesani® Wetroom Drainage Channels for an alternative brand, system or product is not permitted under any circumstances.

The substitution of a specified Jesani® drainage channel for an alternative Jesani® drainage channel by the Contractor shall only be permitted with the Contract Administrator's written authorisation and shall be at no additional cost to the Principal. Should any resultant extra work and/or redesign work be required to accommodate an alternative Jesani® drainage channel to satisfy design, performance, and compliance requirements, then the cost of these shall be borne by the Contractor.

### *Shop Drawings*

Prior to manufacture, prepare and submit to the Contract Administrator for verification and approval, Shop Drawings for each Jesani® Wetroom Drainage Channel required for the completion of the contract works based on the design drawings.

Drawings shall show the general arrangement, including but not limited to the following aspects of the channel installation:

- fully dimensioned plans and cross sections of each specific channel;
- complete details of the installation construction and floor/wall finishes for each situation;
- the direction of fall(s) to the channel and the channel outlet, and the position of the channel outlet for each situation;
- coordination requirements with other work and trades-where required;
- a schedule of fixings.

### *Inspections & Reporting*

BCA Inspections shall take place at each of the stages as scheduled in the Building Consent. Confirm a written programme to facilitate these inspections, including notification when each stage of the work is ready for inspection.

Carry out all necessary pre-installation and installation inspections.

Complete all necessary Pre-Installation Checklists prior to installation, and all necessary Installation Checklists.

Complete all necessary Final Checklists and Installation Sign-Off Certificates before handing over completed work.

### *Quality Assurance*

Maintain and comply with industry-recognised quality control and assurance procedures to ensure that all stages of the work are carried out to the highest standard.

### *Defective Materials & Work*

Should defective materials and/or works be found at any time before the final acceptance of the work, it shall be rejected. Rejected Jesani® Wetroom Drainage Channels materials and work shall be repaired and/or replaced to the satisfaction of the Contract Administrator without delay and at no additional cost to the Principal.

### *Sanitary Plumbing*

Sanitary Plumbing – refer to separate specification section, Waterproofing or Tiling. A BRANZ Appraised wet area waterproofing membrane must be used with Jesani® Wetroom Drainage Channels. The waterproofing membrane must completely cover the flanges as a minimum (waterproofing the trough is optional) – refer to the design drawings.

### *Tile Finishes*

Tile Finishes – refer to separate specification section, Tiling.

### *Vinyl Finishes*

Vinyl Finishes – refer to separate specification section, Vinyl.

### 1.4.3 Jesani® Door Channel

*Jesani® Standard Door Channel – Grade 304 and 316 Stainless Steel*

*Jesani® Cavity Door Channel – Grade 304 and 316 Stainless Steel*

Jesani® Standard Door and Cavity Door Channels are designed to prevent flooding, as a result of accidental discharges, between a wet area and the dry areas of a building. The linear channel is designed to sit at the threshold of interior doorways. Suitable 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 on the 'wet' side. The Jesani® Door Channel can be classified as an emergency overflow for plumbing purposes.

Jesani® Door Channels are designed to have no water trap and discharge to the open air within the property boundary and to be fitted with a vermin trap to prevent the entry of birds and vermin. Also below cladding and above outside FFL/GL. Alternatively, if you want to connect to a water trap, the door channel outlet needs to be within 1.2m of the water trap. **See Acceptable Solution G13/AS1, Figure 2: Multiple Outlets.** For alternative options, please call to discuss 0800 537 264.

If multiple door channels are being used e.g. multi-level building, they can be plumbed as a dry waste system. **See Acceptable Solution G13/AS1, Figure 3: Floor waste stacks and pipes.**

Channel and removable grate manufactured from Grade 304 stainless steel. All joining of channel parts to be fully welded to form a waterproof trough.

#### **DIMENSIONS:**

- Channel Length: To suit door opening – nominal length as specified herein or on the design drawings.
- Trough: 40mm x 15-20mm (depending on design requirements) – depth as specified herein or on the design drawings.
- Horizontal Flanges: 95mm wide on the wet area side; 40mm wide on the dry area side.
- Outlet Connection: Ø38mm x 30mm long, threaded or spigot stainless steel pipe connection, centrally positioned along trough length – *unless otherwise specified herein or on the design drawings.*

#### **FLANGES:**

- Flanges are formed along both sides of the trough – wide flange to the wet area; narrow flange with upstand along trough edge to the dry area.
- The trough end-plates extend 3-35mm (depending on vinyl, floor tile/covering thicknesses) above the line of the horizontal flanges.

#### **REMOVABLE GRATE:**

- The top of the removable grate shall be sized and manufactured to finish flush with the bathroom finished floor level.
- The length of the grate shall be such that the side-margin (gap) between the grate and the edge of the floor finish shall be mirrored at both ends of the channel and the door opening.

Installed in accordance with the Technical Literature and the locations and details shown on the design drawings.

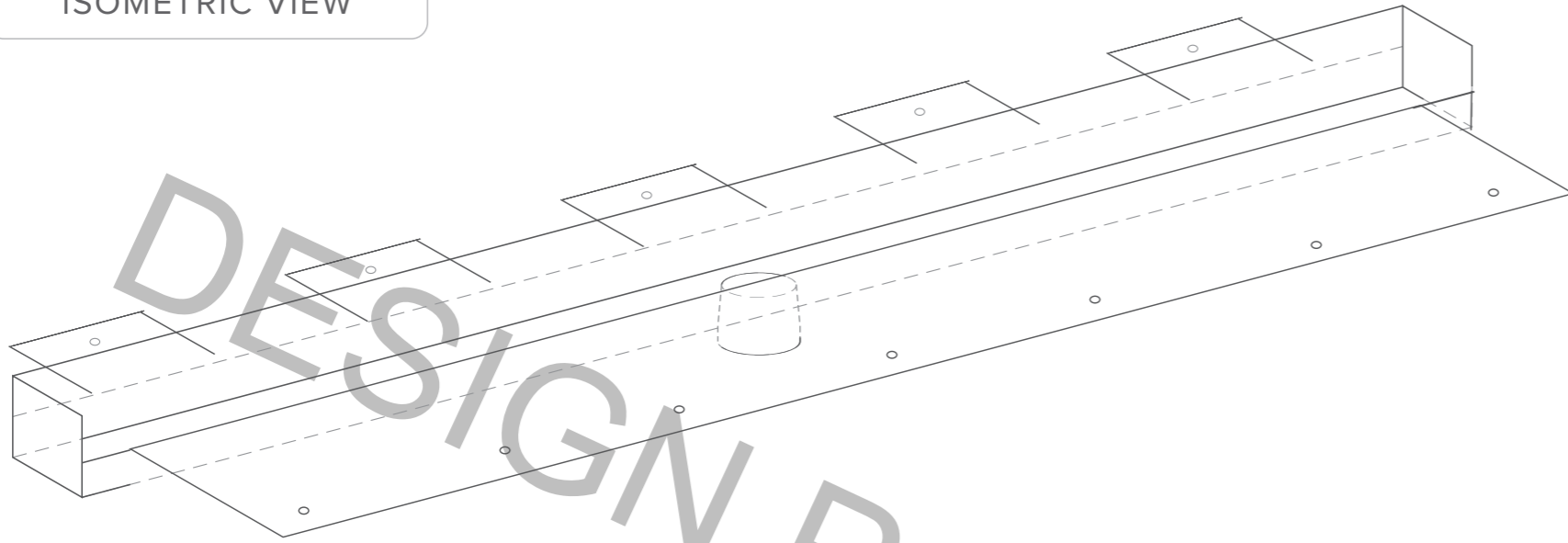
**Nominal Length:**

**Trough Depth:**

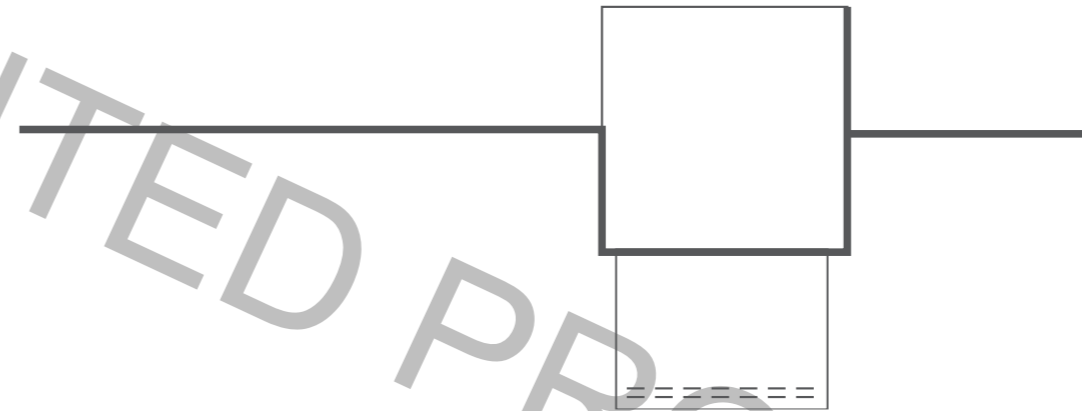
**Outlet Position:**

**Installed Location:**

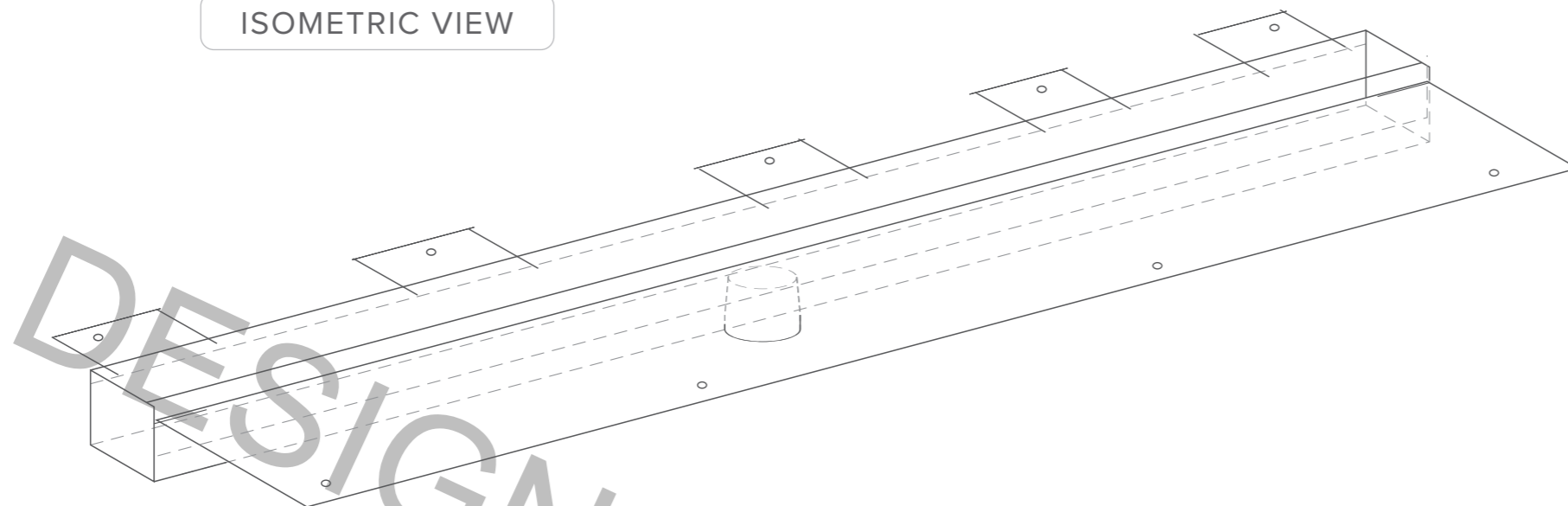
ISOMETRIC VIEW



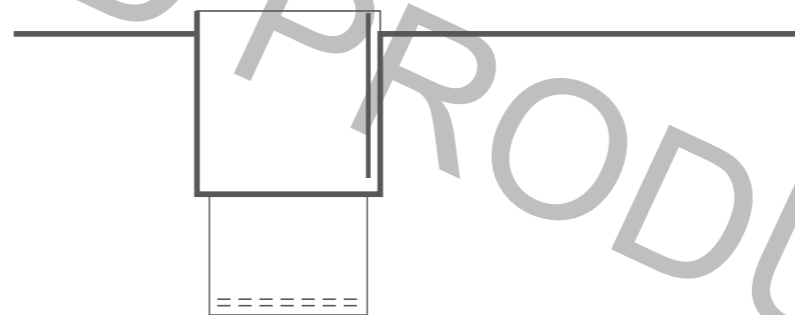
SECTION VIEW



ISOMETRIC VIEW



SECTION VIEW



#### 1.4.5 Jesani® Shower Door Channel

*Jesani® Shower Door Channel – Grade 304 and 316 Stainless Steel*

Jesani® Shower Door Channel. Designed to prevent excess water from the shower area. The linear channel is designed to sit at the threshold of the shower entry. Suitable 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 on the 'wet' side.

The Jesani® Shower Door Channel should be plumbed back to the Shower waste and can be done so using the Jesani® Ultimate Floor Waste Gully System. The shower door channel outlet needs to be within 1.2m of the water trap. **See Acceptable Solution G13/AS1, Figure 2: Multiple Outlets.** For alternative options, please call to discuss 0800 537 264.

Channel and removable grate manufactured from Grade 304 stainless steel. All joining of channel parts to be fully welded to form a waterproof trough.

#### **DIMENSIONS:**

- Channel Length: To suit door opening – nominal length as specified herein or on the design drawings.
- Trough: 40-55mm x 15-20mm (depending on design requirements) – depth as specified herein or on the design drawings.
- Horizontal Flanges: 95mm wide on the wet area side; 40mm wide on the dry area side.
- Outlet Connection: Ø38mm-50mm x 30mm long, threaded or spigot stainless steel pipe connection, centrally positioned along trough length – *unless otherwise specified herein or on the design drawings.*

#### **FLANGES:**

- Flanges are formed around the perimeter of the trough to suit a centre floor installation, with horizontal side flanges (floor).
- The trough end-plates extend 3-35mm (depending on vinyl, floor tile/covering thicknesses) above the line of the horizontal flanges.

#### **REMOVABLE GRATE:**

- The top of the removable grate shall be sized and manufactured to finish flush with the shower/bathroom finished floor level.
- Where the end of the grate abuts a wall, the length of the grate shall be such that the side-margin (gap) between the grate and the edge of the floor finish shall be mirrored at the end of the channel and the finished wall.

Installed in accordance with the Technical Literature and the locations and details shown on the design drawings.

**Nominal Length:**

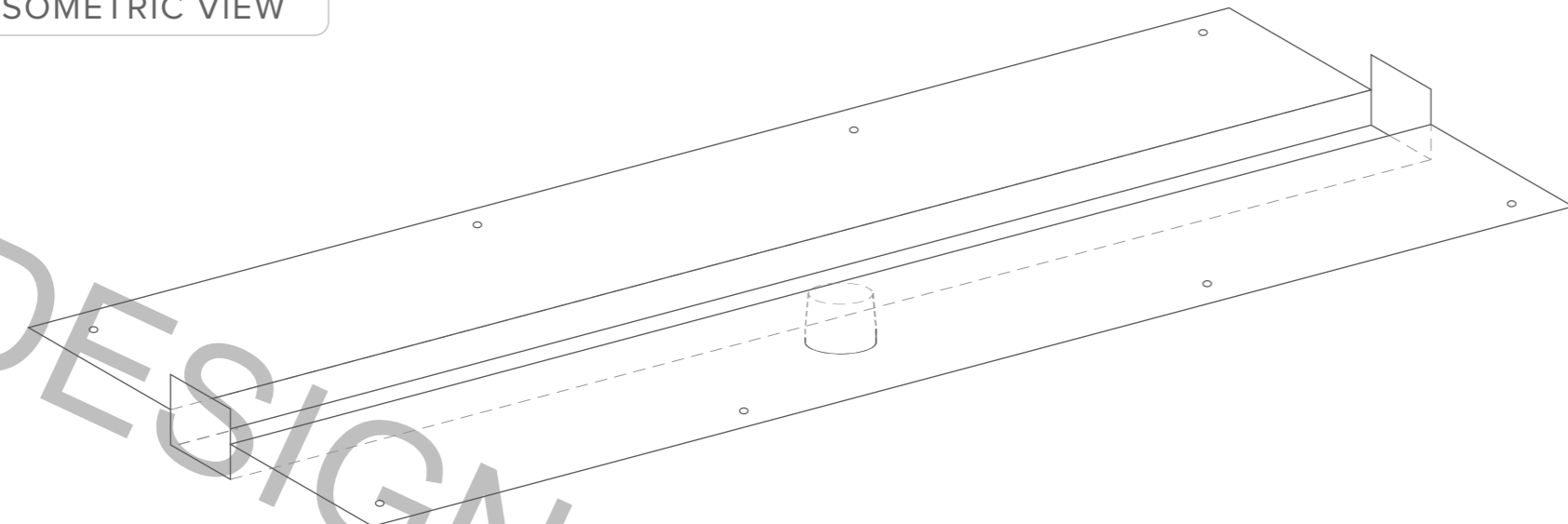
**Trough Depth:**

**Outlet Position:**

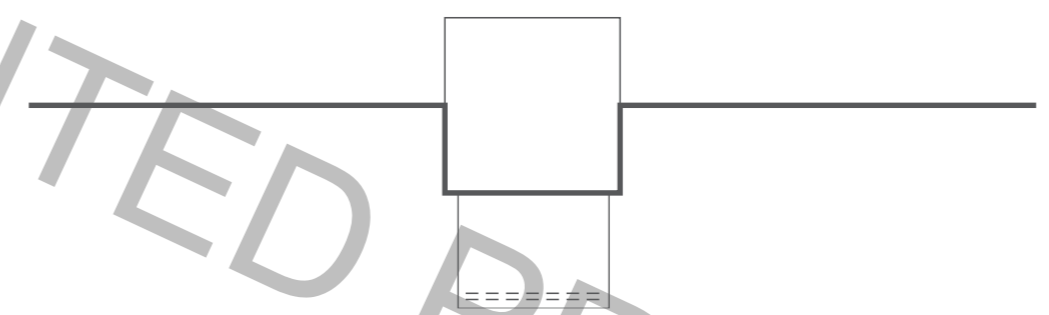
**Installed Location:**



ISOMETRIC VIEW



SECTION VIEW



DESIGN PATENTED PRODUCT



**SHOWER DOOR CHANNEL**

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ALL MEASUREMENTS IN MILLIMETRES

Protected by any one or more of the following  
NZ Registered Design Nos 422194 & 421870  
New Zealand patent application no. NZ 722512

This information is intended solely as a guide for use of Jesani products. Before using you should ensure that the product is suitable for use in the specific application. Nothing in this information constitutes a statement of fitness for particular purpose and appropriate expert advice is to always be obtained. Jesani Ltd makes no warranty regarding the use of this information with non-Jesani products. This drawing is the property of Jesani Ltd.

#### 1.4.6 Jesani® Wall Mounted Shower Channel

*Jesani® Wall Mounted Shower Channel – Grade 304 and 316 Stainless Steel*

Jesani® Wall Mounted Shower Channel. Designed as a Shower Channel waste to receive and direct intentional discharges from showers to the plumbing system. The linear channel is designed to sit against the shower wall. Suitable 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.

Channel and removable grate manufactured from Grade 304 stainless steel. All joining of channel parts to be fully welded to form a waterproof trough.

##### **DIMENSIONS:**

- Length: To suit shower design – nominal length as specified herein or on the design drawings.
- Trough: 100-150mm wide x 15-40mm deep (depending on design requirements) – depth as specified herein or on the design drawings.
- Horizontal Flange: 95mm wide
- Vertical Flange: Extending 90mm above the line of the horizontal flange.
- Outlet Connection: Ø50mm - Ø100mm outlet options x 50mm long, threaded or spigot stainless steel pipe connection, centrally positioned along trough length – unless otherwise specified herein or on the design drawings.

##### **FLANGES:**

- Flanges are formed around the perimeter of the trough to suit a wall-mounted installation, with a vertical flange (wall) and a horizontal flange (floor).
- Where the channel-end abuts a wall, the vertical flange shall be returned across the trough-end and horizontal flange and welded to form a continuous, waterproof skirt.
- Where the channel-end does not abut a wall, the vertical flange shall extend 95mm beyond the end of the trough in the same plane, and the horizontal flange returned to the vertical flange and welded to form a continuous, waterproof skirt.

##### **REMOVABLE GRATE:**

- The top of the removable grate shall be sized and manufactured to finish flush with the shower finished floor level.
- Where the end of the grate abuts a wall, the length of the grate shall be such that the side-margin (gap) between the grate and the edge of the floor finish shall be mirrored at the end of the channel and the finished wall.

Installed in accordance with the Technical Literature and the locations and details shown on the design drawings.

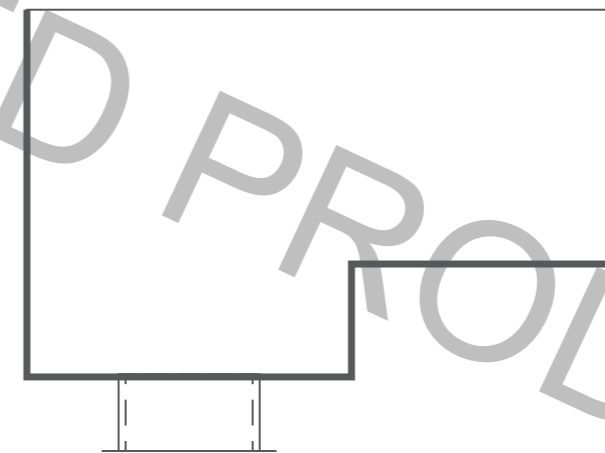
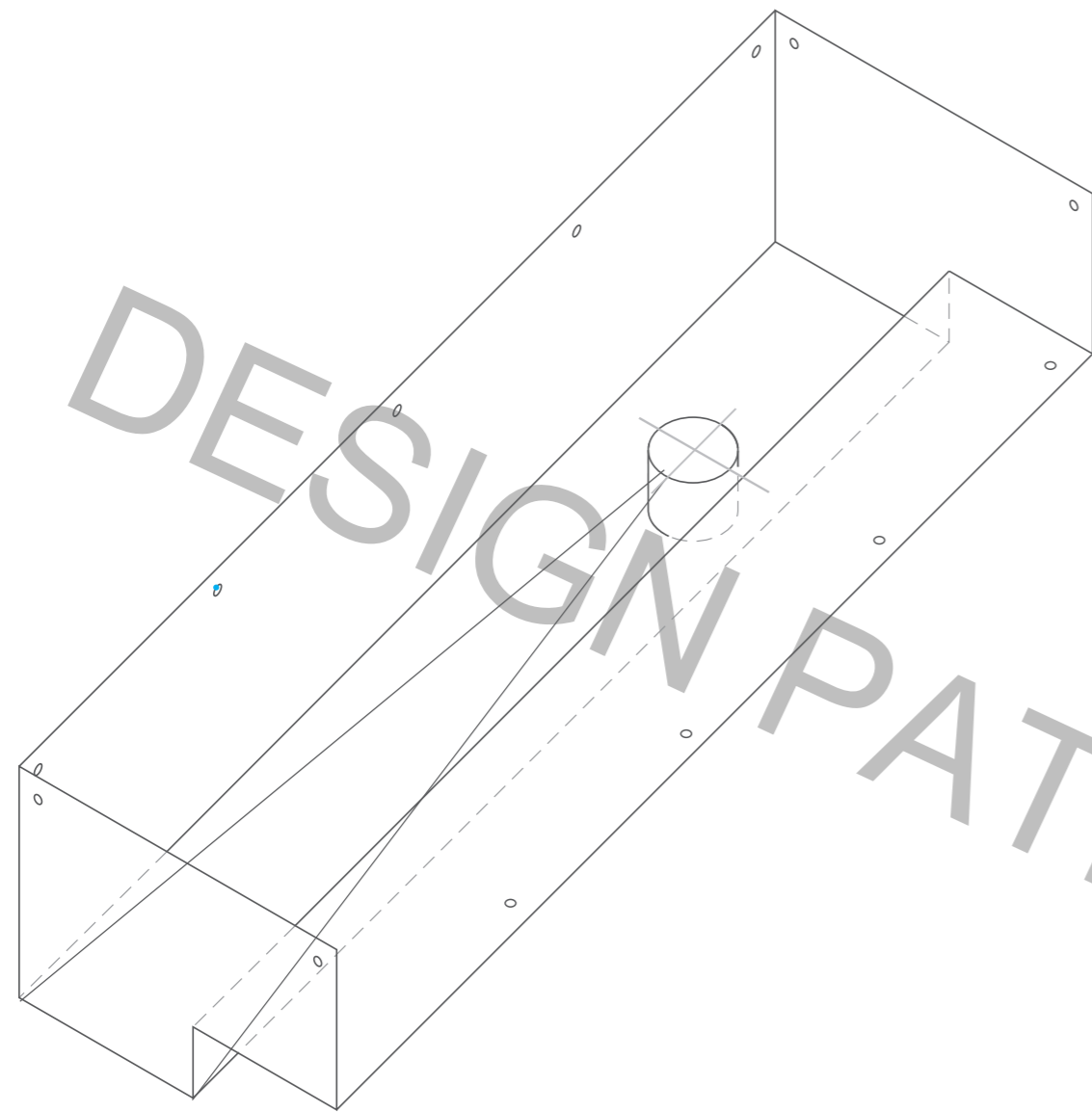
**Nominal Length:**

**Trough Depth:**

**Outlet Position:**

**Installed Location:**

ISOMETRIC VIEW



SECTION VIEW



**WALL MOUNTED SHOWER CHANNEL**

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ALL MEASUREMENTS IN MILLIMETRES

Protected by any one or more of the following  
NZ Registered Design Nos 422194 & 421870  
New Zealand patent application no. NZ 722512

#### 1.4.7 Jesani® Threshold or Centre Shower Channel

*Jesani® Threshold or Centre Shower Channel – Grade 304 and 316 Stainless Steel*

Jesani® Threshold or Centre Shower Channel. Designed as a Shower Channel waste to receive and direct intentional discharges from showers to the plumbing system. The linear channel is designed to sit in the threshold entry to the shower or the central shower area. Suitable 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.

Channel and removable grate manufactured from Grade 304 stainless steel. All joining of channel parts to be fully welded to form a waterproof trough.

##### **DIMENSIONS:**

- Channel Length: To suit shower design – nominal length as specified herein or on the design drawings.
- Trough: 65-140mm wide x 15-40mm deep (depending on design requirements) – width and depth as specified herein or on the design drawings.
- Horizontal Flanges: 90mm wide
- Vertical End Flange (where required):  
Extending 90mm above line of the horizontal flange.
- Outlet Connection: Ø50mm - Ø100mm x 50mm long, threaded or spigot stainless steel pipe connection, centrally positioned along trough length – unless otherwise specified herein or on the design drawings.

##### **FLANGES:**

- Flanges are formed around the perimeter of the trough to suit a centre floor installation, with horizontal side flanges (floor).
- Where the channel-end abuts a wall, a vertical flange, extending 90mm above the line of the horizontal flange, shall be returned across the trough-end and the width of the horizontal flanges and welded to form a continuous, waterproof skirt.
- Where the channel-end does not abut a wall, the horizontal flange shall be returned in the same plane at the trough-end and welded to form a continuous, waterproof skirt.

##### **REMOVABLE GRATE:**

- The top of the removable grate shall be sized and manufactured to finish flush with the shower finished floor level.
- Where the end of the grate abuts a wall, the length of the grate length shall be such that the side-margin (gap) between the grate and the edge of the floor finish shall be mirrored at the end of the channel and the finished wall.

Installed in accordance with the Technical Literature and the locations and details shown on the design drawings.

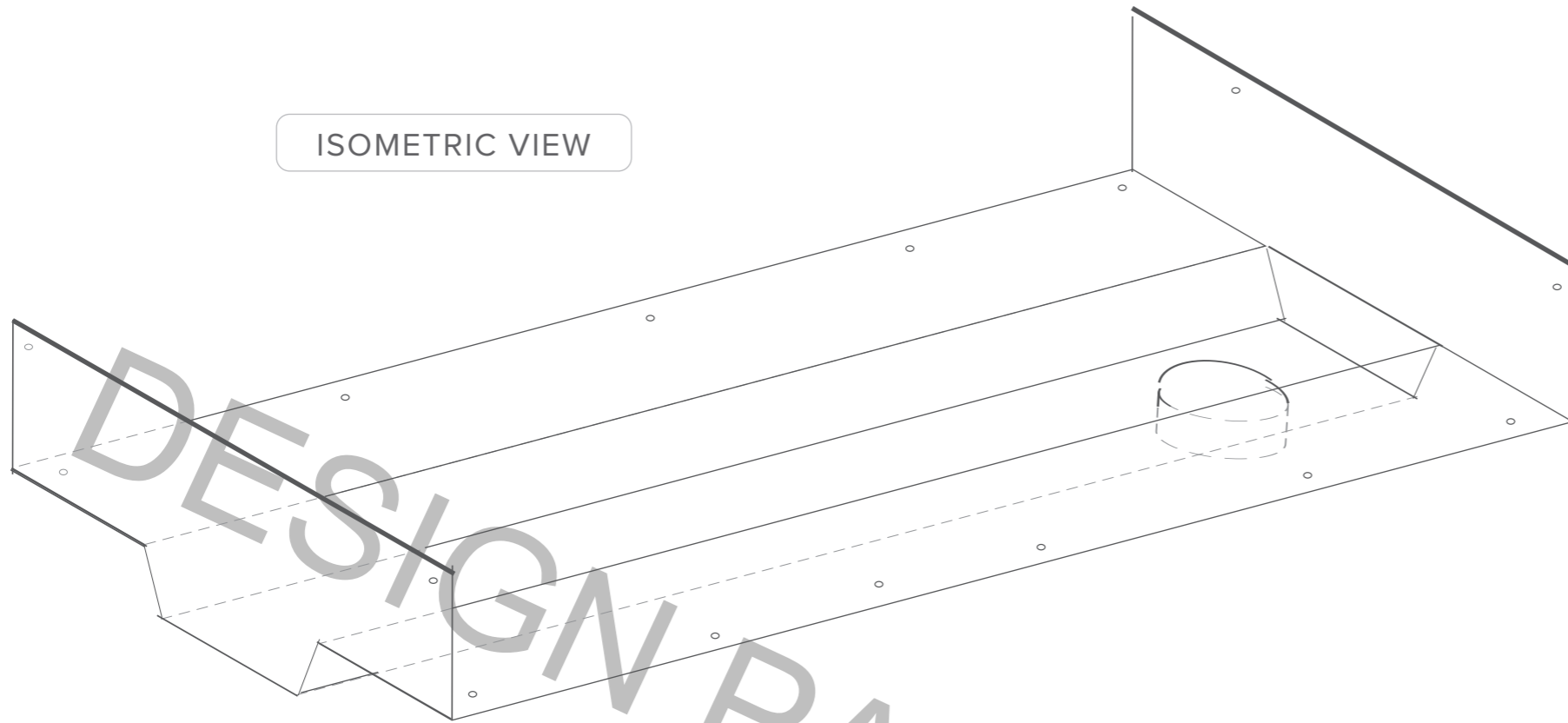
**Nominal Length:**

**Trough Width & Depth:**

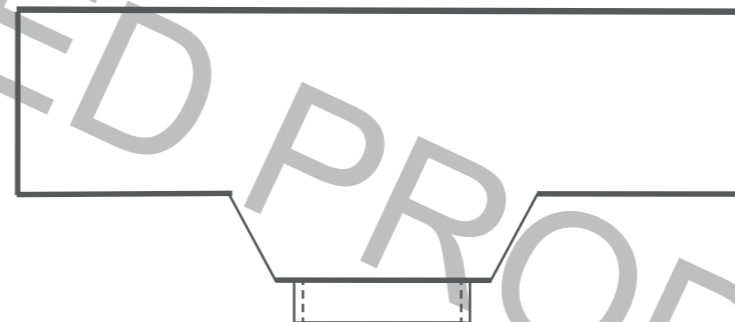
**Outlet Position:**

**Installed Location:**

ISOMETRIC VIEW



SECTION VIEW



**JESANI**  
WETROOM DESIGN SOLUTIONS

**THRESHOLD/CENTRE SHOWER  
CHANNEL**

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ALL MEASUREMENTS IN MILLIMETRES

Protected by any one or more of the following

NZ Registered Design Nos 422194 & 421870  
New Zealand patent application no. NZ 722512

#### 1.4.8 Jesani® Vinyl Clamp Shower Channel

*Jesani® Vinyl Clamp Shower Channel – Grade 304 and 316 Stainless Steel*

Jesani® Vinyl Clamp Shower Channel. Designed as a Shower Channel waste to receive and direct intentional discharges from showers to the plumbing system. The linear channel is designed to sit in the shower area. Suitable for use with concrete floors or timber framed floors in conjunction with the clamping system for a vinyl membrane finish.

Channel and removable grate manufactured from Grade 304 stainless steel. All joining of channel parts to be fully welded to form a waterproof trough.

##### **DIMENSIONS:**

- Channel Length: To suit shower design – nominal length as specified herein or on the design drawings.
- Trough: 115-140mm wide x 20-40mm deep (depending on design requirements) – width and depth as specified herein or on the design drawings.
- Horizontal Flanges: 30mm wide
- Vertical End Flange (where required):  
Extending 90mm above line of the horizontal flange.
- Outlet Connection: Ø50mm - Ø100mm x 50mm long, threaded or spigot stainless steel pipe connection, centrally positioned along trough length – unless otherwise specified herein or on the design drawings.

##### **FLANGES:**

- Flanges are formed around the perimeter of the trough to suit a centre floor installation, with horizontal side flanges (floor).
- Where the channel-end abuts a wall, a vertical flange, extending 90mm above the line of the horizontal flange, shall be returned across the trough-end and the width of the horizontal flanges and welded to form a continuous, waterproof skirt.
- Where the channel-end does not abut a wall, the horizontal flange shall be returned in the same plane at the trough-end and welded to form a continuous, waterproof skirt.

##### **REMOVABLE GRATE:**

- The top of the removable grate shall be sized and manufactured to finish flush with the shower finished floor level.

Installed in accordance with the Technical Literature and the locations and details shown on the design drawings.

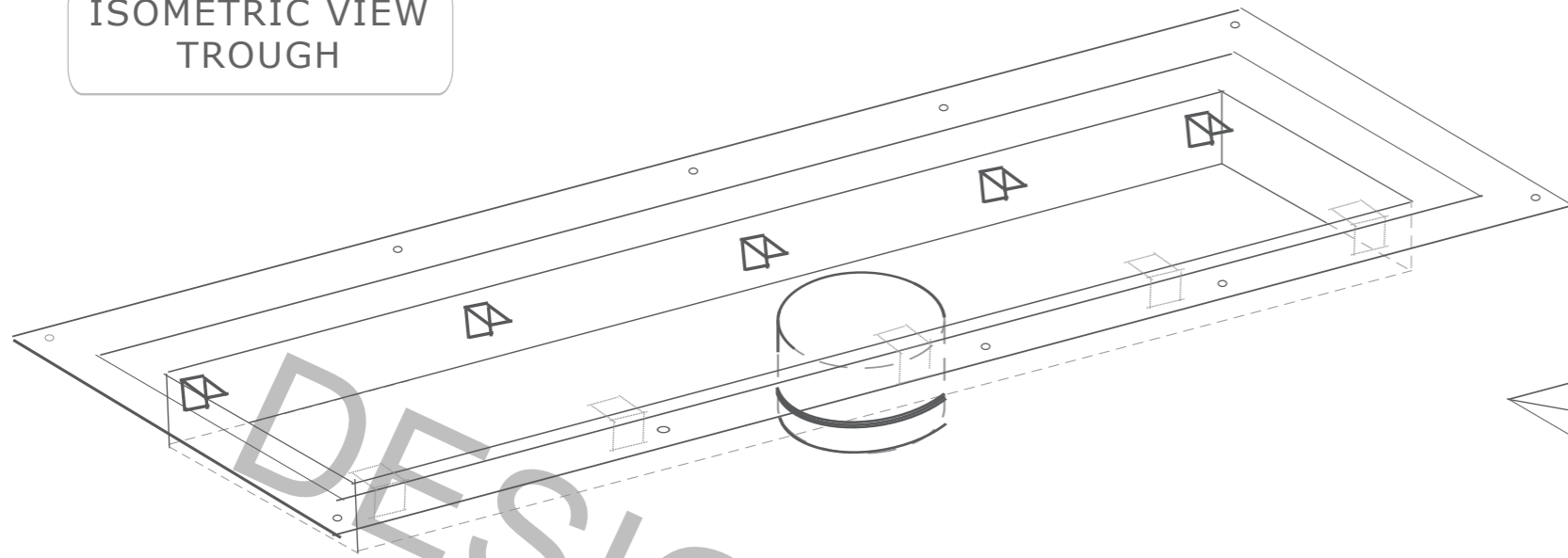
**Nominal Length:**

**Trough Width & Depth:**

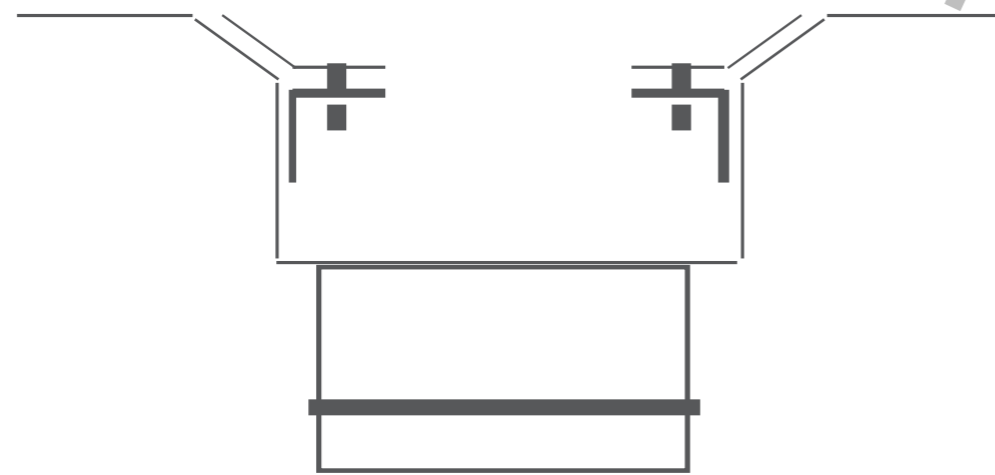
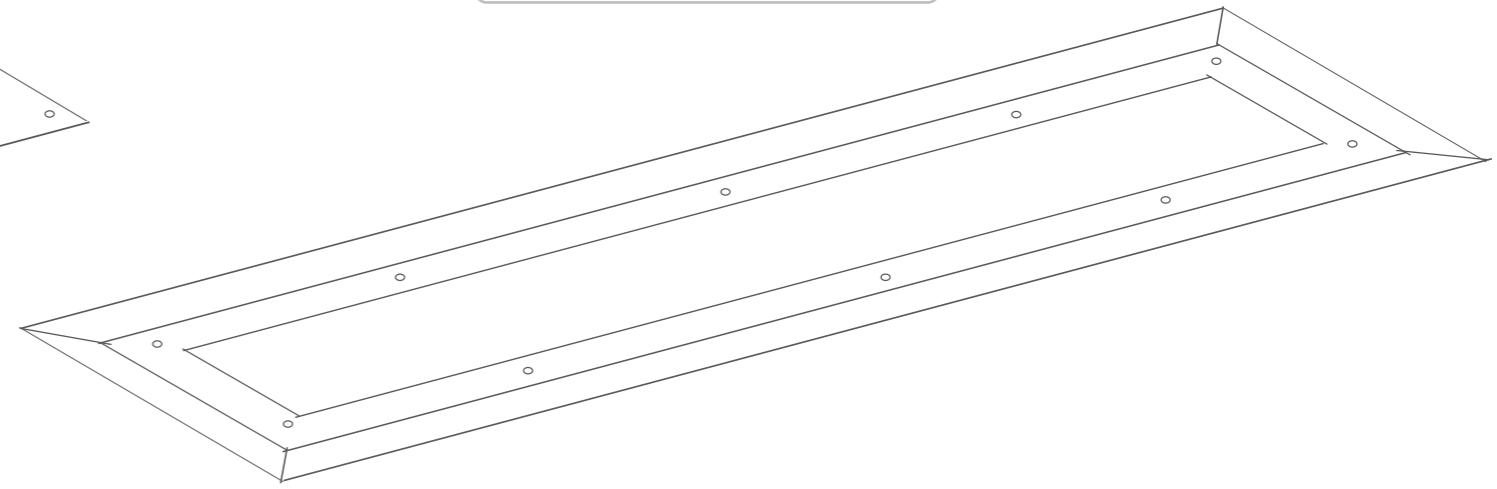
**Outlet Position:**

**Installed Location:**

ISOMETRIC VIEW  
TROUGH



ISOMETRIC VIEW  
CLAMPING FLANGE



SECTION VIEW

#### 1.4.9 Jesani® Slimline Channel

*Jesani® Slimline Channel – Grade 304 and 316 Stainless Steel*

Jesani® Slimline Channel. Designed as an additional wetroom drainage channel option to direct unintentional overflow away. The linear channel is designed to sit against the perimeter wall behind a freestanding bath or at the base of a shower-over-bath installation. Suitable 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.

Channel and removable grate manufactured from Grade 304 stainless steel. All joining of channel parts to be fully welded to form a waterproof trough.

##### **DIMENSIONS:**

- Length: To suit bathroom design – nominal length as specified herein or on the design drawings.
- Trough: 50-80mm side x 15-20mm deep (depending on design requirements) – width and depth as specified herein or on the design drawings.
- Horizontal Flange: 95mm wide.
- Vertical Flange: Extending 90mm above the line of the horizontal flange.
- Outlet Connection: Ø38mm - Ø50mm x 30mm long, threaded or spigot stainless steel pipe connection, centrally positioned along trough length – unless otherwise specified herein or on the design drawings.

##### **FLANGES:**

- Flanges are formed around the perimeter of the trough to suit a wall-mounted installation, with a vertical flange (wall) and a horizontal flange (floor).
- Where the channel-end abuts a wall, the vertical flange shall be returned across the trough-end and horizontal flange and welded to form a continuous, waterproof skirt.
- Where the channel-end does not abut a wall, the vertical flange shall extend 95mm beyond the end of the trough in the same plane, and the horizontal flange returned to the vertical flange and welded to form a continuous, waterproof skirt.

##### **REMOVABLE GRATE:**

- The top of the removable grate shall be sized and manufactured to finish flush with the shower/bathroom finished floor level.
- Where the end of the grate abuts a wall, the length of the grate shall be such that the side-margin (gap) between the grate and the edge of the floor finish shall be mirrored at the end of the channel and the finished wall.

Installed in accordance with the Technical Literature and the locations and details shown on the design drawings.

**Nominal Length:**

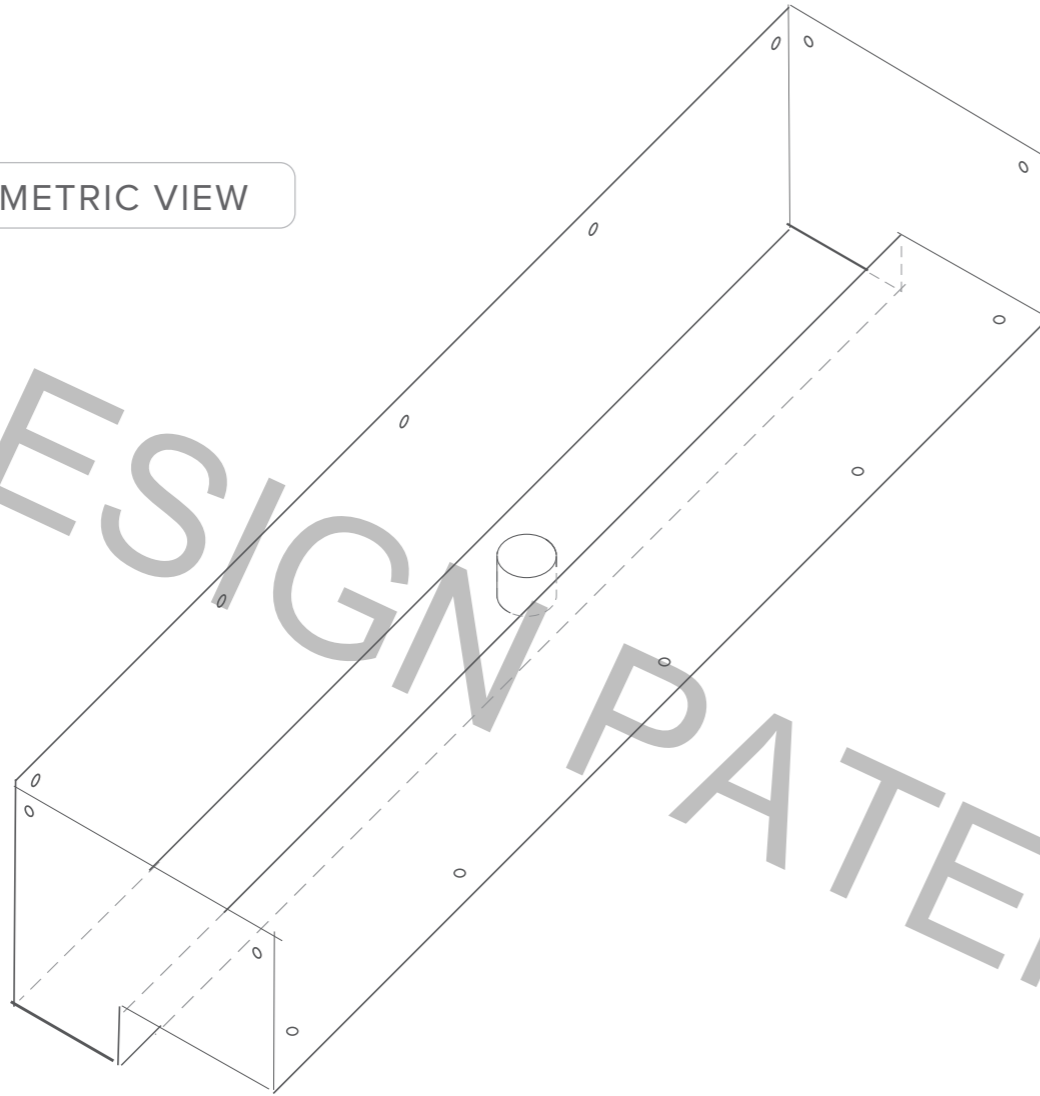
**Trough Width & Depth:**

**Outlet Position:**

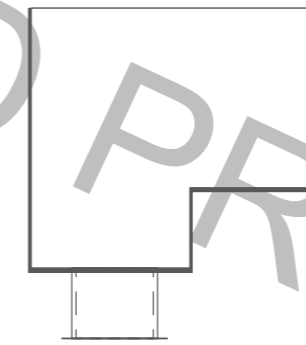
**Installed Location:**



ISOMETRIC VIEW



SECTION VIEW



#### 1.4.10 Jesani® Appliance Channel

*Jesani® Appliance Channel – Grade 304 and 316 Stainless Steel*

Jesani® Appliance Channel. Designed to prevent flooding, as a result of accidental discharges from appliances to the dry areas of a building. The linear channel is designed to sit in a predetermined position around a plumbed appliance, e.g. washing machine, dishwasher or a plumbed fridge.

Suitable for use with concrete floors or timber floors in conjunction with a waterproofing membrane protected from physical damage by ceramic or stone tile finishes on the 'wet' side. The Jesani® Appliance Channel can be classified as an emergency overflow for plumbing purposes.

Jesani® Appliance Channels are designed to have no water trap and discharge to the open air within the property boundary and to be fitted with a vermin trap to prevent the entry of birds and vermin. Alternatively, if you want to connect to a water trap, the appliance channel outlet needs to be within 1.2m of the water trap. **See Acceptable Solution G13/AS1, Figure 2: Multiple Outlets.** For alternative options, please call to discuss 0800 537 264.

If multiple appliance channels are being used e.g. multi-level building, they can be plumbed as a dry waste system. **See Acceptable Solution G13/AS1, Figure 3: Floor waste stacks and pipes.**

Channel and removable grate manufactured from Grade 304 stainless steel. All joining of channel parts to be fully welded to form a waterproof trough.

##### **DIMENSIONS:**

- Channel Length: To suit design and installation requirements – nominal length as specified herein or on the design drawings.
- Trough: 40mm wide x 15-20mm (depending on design requirements) – depth as specified herein or on the design drawings.
- Horizontal Flanges: 95mm wide on the wet area side; 40mm wide on the dry side.
- Outlet Connection: Ø38mm x 30mm long, threaded or spigot stainless steel pipe connection, centrally positioned along trough length – unless otherwise specified herein or on the design drawings.

##### **FLANGES:**

- Flanges are formed along both sides of the trough – wide flange to the wet area; narrow flange with the upstand along trough edge to the dry area.
- The trough end-plates extend 3-35mm (depending on floor tile/covering thicknesses) above the line of the horizontal flanges.

##### **REMOVABLE GRATE:**

- The top of the removable grate shall be sized & manufactured to finish flush with the Tile or Vinyl finished floor level.
- The length of the grate shall be such that the side-margin (gap) between the grate and the edge of the floor finish shall be mirrored at both ends of the channel and the door opening.

Installed in accordance with the Technical Literature and the locations and details shown on the design drawings.

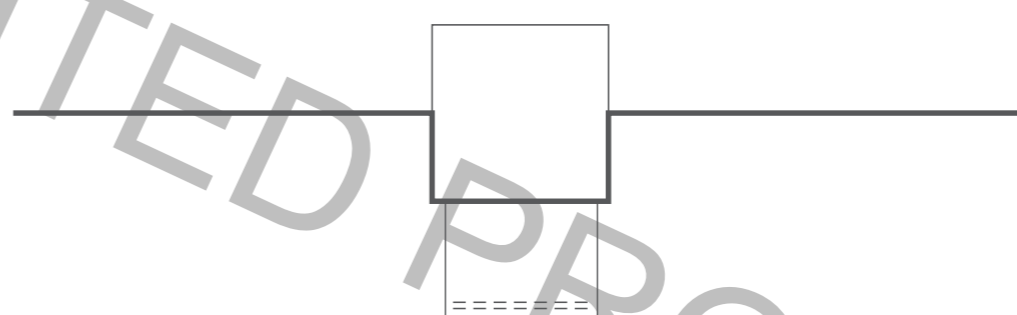
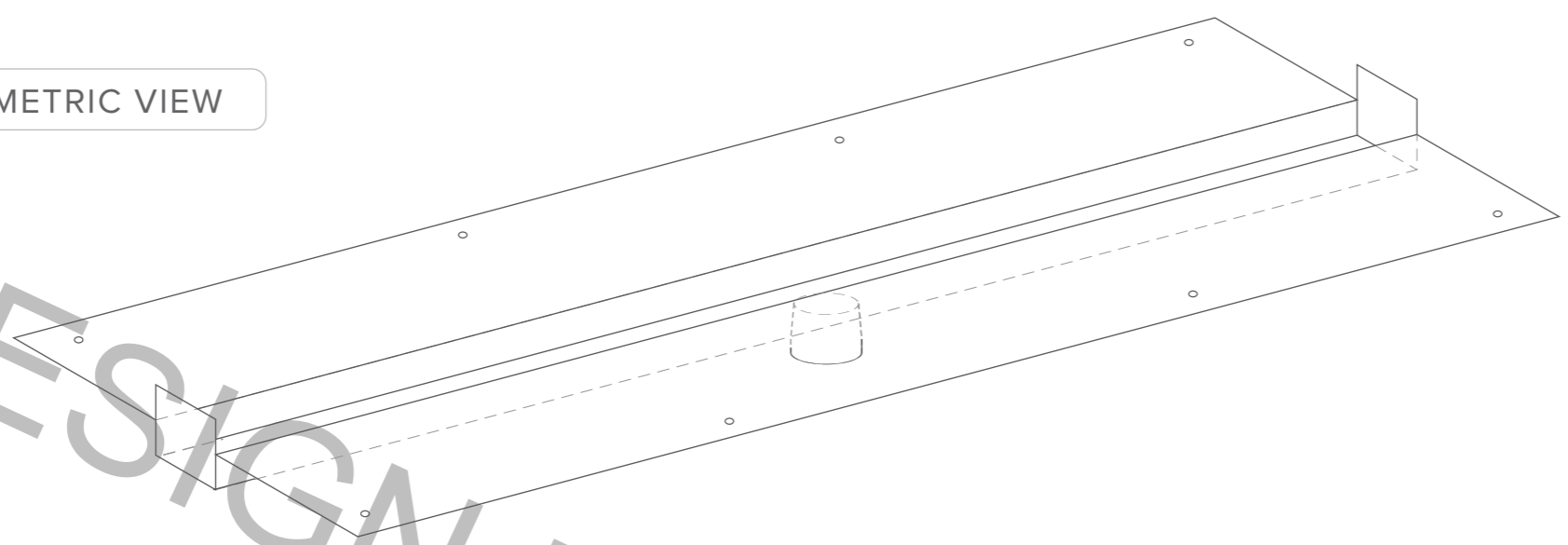
**Nominal Length:**

**Trough Depth:**

**Outlet Position:**

**Installed Location:**

ISOMETRIC VIEW



SECTION VIEW



APPLIANCE CHANNEL

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ALL MEASUREMENTS IN MILLIMETRES

Protected by any one or more of the following  
NZ Registered Design Nos 422194 & 421870  
New Zealand patent application no. NZ 722512

This information is intended solely as a guide for use of Jesani products. Before using you should ensure that the product is suitable for use in the specific application. Nothing in this information constitutes a statement of fitness for particular purpose and appropriate expert advice is to always be obtained. Jesani Ltd makes no warranty regarding the use of this information with non-Jesani products. This drawing is the property of Jesani Ltd.

#### **1.4.11 Accessories**

##### *Supplied Fixings*

**Timber Screw Fixings.** Grade 304 stainless steel, countersunk head, self-drilling screws for fixing the channel flange to the wall and/or floor. Fix through factory pre-drilled holes.

**Concrete Fixings.** Nail In Nylon Anchors, countersunk head, for fixing the channel flange to the floor. Fix through factory pre-drilled holes.

#### **1.4.12 Co-Operation**

Co-operate with other trades to ensure that all preliminary and preparatory works are completed to specification and as shown on the design drawings.

Co-ordinate with other trades to install Jesani® Wetroom Drainage Channels as required.

#### **1.4.13 Workmanship**

Where required by the NZ Building Act 2004 it is the building contractor's responsibility to ensure that all restricted building work is carried out by a Licenses Building Practitioner.

Installation work shall be carried out by suitably qualified and experienced installers, familiar with the specified products and the required construction and installation techniques, in accordance with the Technical Literature and to comply with the NZ Building Code.

Install Jesani® Wetroom Drainage Channels to the correct alignment – true to line and level and finished floor level, etc, - as indicated on the design drawings.

Consult Jesani Distributions Ltd regarding any detail where a standard installation detail does not exist.

All work shall be such as to leave a neat, efficient, and robust installation, to the required standard, free from damage and defects.

Make all necessary provisions to protect adjacent finished work and surfaces from damage during installation.

#### **1.4.14 Delivery & Handling**

Take delivery of materials and accessories undamaged and in good condition. Reject any item found to be defective or damaged and contact the manufacturer/supplier for replacement.

Store Jesani® Wetroom Drainage Channels undercover, clear of the floor, on a level surface, and protected from damage and contamination in accordance with the manufacturer's requirements. Ensure items are kept horizontal and free from imposed loads and bending until required for installation.

Do not use damaged or defective materials, or products that are beyond their designated shelf life.

Should a problem be encountered with any Jesani® product during use or delivery, immediately contact Jesani Distributions Ltd on 0800 537 264. Do not continue to use the product that is not performing to specification or expectation. Keep the product in question and where possible, the packaging and/or manufacturer's details.

Handle products in accordance with the manufacturer's requirements and in a manner that prevents damage and marking and does not reduce its performance.

Installers shall be familiar with, and comply with, the manufacturer's safe handling requirements and precautions for use, and shall use appropriate safety gear as necessary.

Installers shall conform to all relevant WorkSafe NZ Guidelines and Codes of Practice – including the OSH Guidelines For the Provision of Facilities and General Safety in the Construction Industry.

#### **1.4.15 Preparation**

##### *General*

Prior to installation, carry out all necessary inspections of substrates in accordance with the Technical Literature. Do not commence installation until all necessary preliminary work by others is complete and to the required standard. The commencement of work on each section of the installation shall be deemed to indicate full acceptance by the Installer that all preparatory work by other trades is complete and to the required standard.

Substrates must be structurally sound and dimensionally stable and in the correct alignment, true to line, level and grade (for built-in falls)

Shower and shower areas must have a minimum fall of 1:50 to the shower waste channel, and with all falls sloping to the channel. Falls must be built into the substrate unless alternative pre-formed shower base options are specified.

Confirm the location of all movement control joints prior to the commencement of the works.

##### **Concrete Floors:**

-Concrete floors must be to a specific engineering design meeting the requirements of the NZ Building Code, such as NZS 3101 or NZS 3604 concrete slab-on-ground floors.

##### **Timber Framed Floors:**

-Timber framed floors must comply with NZS 3604, or where specific engineering is used, the framing shall be of at least equivalent stiffness to the framing provisions of NZS 3604 or comply with the serviceability criteria of AS/NZS 1170.

##### **Plywood Sheet Flooring:**

-Plywood sheet material must comply with AS/NZS 2269 and be installed in accordance with the manufacturer's requirements.

-Plywood floors in wet areas must be a minimum H3.2 treated.

##### **Fibre Cement Compressed Sheet Flooring:**

-Fibre cement compressed sheet must be manufactured to and comply with AS/NZS 2908.2 and be installed in accordance with the manufacturer's requirements.

-Fibre cement compressed sheet floors in wet areas must be specified by the manufacturer as being suitable for use as a wet area substrate.

### **Fibre Cement Sheet Tile Underlay**

-Fibre cement sheet tile underlay must be manufactured to and comply with AS/NZS 2908.2 and be installed in accordance with the manufacturer's requirements.

-Fibre cement sheet tile underlay used in wet areas must be specified by the manufacturer as being suitable for use as a wet area substrate, in internal wet areas.

NOTE-It is recommended to install the Jesani® Channel flanges under the Fibre Cement Sheet Tile Underlay.

### **Pre-Formed Shower Base**

-Pre-Formed Shower Base can be installed under or over the Jesani Channel Flanges and to be installed in accordance with the manufacturer's requirements.

-Pre-Formed Shower Base used in wet areas must be specified by the manufacturer as being suitable for use as a wet area substrate, in internal wet areas.

### **Under Tile Heating**

-The Bathroom floor may have a 5-7mm height difference due to the Under Tile Heating only being installed on the Bathroom Floor side.

-Consideration to the installation of Underfloor Tile Heating is recommended due to the thickness build-up of 5-7mm on the floor with regards to the top of the tile finish matching the top of the grill finish. This is evident when choosing either a Shower Door Channel or Threshold/Centre Shower Channel as the flooring on either side of the channel is required to be level with the finished grill.

-Installation of the Under Tile Heating to be completed in accordance with the manufacturer's requirements.

#### 1.4.16 Installation

##### JESANI® STANDARD DOOR CHANNEL and JESANI® CAVITY DOOR CHANNEL

###### *Timber Framed Floor*

The Jesani® Standard Door and Cavity Door Channel is installed on a timber-framed floor by:

- Ensure you have the correct plumbing set up as per **Acceptable Solution G13/AS1**:
  - a. Dry waste
  - b. Multiple outlets – **See Figure 2: Multiple Outlets**
  - c. Dry waste system – **See Figure 3: Floor waste stacks and pipes.**
- Cutting the correct size slot for the trough in the flooring substrate (plywood or other sheet flooring material).
- Check for high points in the flooring, as the finished tile height is the top of the grill
- The channel fitted into the cut slot, ensuring the wider horizontal flange situated on the 'wet' side of the door opening.
- The Channel is then screw-fixed to floor framing either side using the pre-drilled holes in the horizontal flanges.
- The 'wet' side flooring substrate is covered with a tile underlay, ensuring a minimum 20mm overlap over the horizontal flange.
- The waterproof membrane must completely cover the flange on the 'wet' side of the channel.
- The grate is inserted into the channel.
- Connection to the waste pipe must be carried out before the floor cavity is permanently closed and prior to completion of the works.
- Floor tiles on the 'wet' side of the channel shall finish flush with the trough edge.
- Vinyl on the 'wet' side of the channel shall finish flush against the internal upstand
- Floor coverings on the 'dry' side of the channel shall finish against the flange upstand.

###### *Concrete Floor*

The Jesani® Standard Door and Cavity Door Channel is installed on a concrete floor by:

- Ensure you have the correct plumbing set up as per **Acceptable Solution G13/AS1**:
  - a. Dry waste
  - b. Multiple outlets – **See Figure 2: Multiple Outlets**
  - c. Dry waste system – **See Figure 3: Floor waste stacks and pipes.**
- Boxing out the area required for the channel.
- Check for high points in the flooring, as the finished tile height is the top of the grill
- The channel is then installed into the rebated area, ensuring the wider horizontal flange situated on the 'wet' side of the door opening, and connected to the waste pipe.
- Concrete is poured and compacted around the channel to allow it to sit firmly in position, and the concrete allowed to dry for a minimum of 12 hours.
- The concrete for the remainder of the floor is then poured.
- When the concrete has dried, the channel is fixed to the concrete floor with nail-in nylon plugs using the pre-drilled holes in the horizontal flanges.
- The waterproof membrane must completely cover the flange on the 'wet' side of the channel.
- The grate is inserted into the channel.
- Floor tiles on the 'wet' side of the channel shall finish flush with the trough edge.
- Vinyl on the 'wet' side of the channel shall finish flush against the internal upstand
- -Floor coverings on the 'dry' side of the channel shall finish against the flange upstand.

## JESANI® SHOWER DOOR CHANNEL

### *Timber Framed Floor*

The Jesani® Shower Door Channel is installed on a timber-framed floor by:

- Ensure you have the correct plumbing set up as per **Acceptable Solution G13/AS1**:
  - a. Dry waste
  - b. Multiple outlets – **See Figure 2: Multiple Outlets**
  - c. Dry waste system – **See Figure 3: Floor waste stacks and pipes.**
- Cutting the correct size slot for the trough in the flooring substrate (plywood or other sheet flooring material) and the channel fitted into the slot.
- Check for high points in the flooring, as the finished tile height is the top of the grill
- The channel is then screw-fixed to the floor framing either side using the pre-drilled holes in the horizontal flanges.
- The flooring substrate is covered with a tile underlay, ensuring a minimum 20mm overlap over the horizontal flange.
- The waterproof membrane must completely cover the horizontal flanges and into the front face of the channel trough. It is optional to waterproof the trough, however, ensure the outlet is not covered.
- Underfloor Heating will provide a height variation from the bathroom side of channel to the shower side of channel. Consideration is necessary to ensure a level finish of both sides of channel to match the finished grill height.
- The grate is inserted into the channel.
- Connection to the waste pipe must be carried out before the floor cavity is permanently closed and prior to completion of the works.
- Floor tiles either side of the channel shall finish flush with the trough edge.

### *Concrete Floor*

The Jesani® Shower Door Channel is installed on a concrete floor by:

- Ensure you have the correct plumbing set up as per **Acceptable Solution G13/AS1**:
  - a. Dry waste
  - b. Multiple outlets – **See Figure 2: Multiple Outlets**
  - c. Dry waste system – **See Figure 3: Floor waste stacks and pipes.**
- Boxing out the area required for the channel, ensuring the concrete floor can be constructed with the correct falls.
- Check for high points in the flooring, as the finished tile height is the top of the grill
- The channel is then installed into the rebated area and connected to the waste pipe.
- Concrete is poured and compacted around the channel to allow it to sit firmly in position, and the concrete allowed to dry for a minimum of 12 hours.
- The concrete for the remainder of the floor is then poured either side, ensuring correct falls are achieved.
- When the concrete has dried, the channel is fixed to the concrete floor using nail-in nylon plugs using the pre-drilled holes in the horizontal flange(s).
- The waterproof membrane must completely cover the horizontal flanges and into the front face of the channel trough. It is optional to waterproof the trough, however, ensure the outlet is not covered.
- Underfloor Heating will provide a height variation from the bathroom side of channel to the shower side of channel. Consideration is necessary to ensure a level finish of both sides of channel to match the finished grill height.
- The grate is inserted into the channel.
- Floor tiles either side of the channel shall finish flush with the trough edge.



## JESANI® WALL MOUNTED SHOWER CHANNEL

### *Timber Framed Floor*

The Jesani® Wall Mounted Shower Channel is installed on a timber-framed floor by:

- Cutting the correct size slot for the trough in the flooring substrate (plywood or other sheet flooring material) and the channel fitted into the slot.
- The channel is then screw-fixed to wall framing using the pre-drilled holes in the flanges.
- The walls are then lined, ensuring a minimum 20mm overlap over the vertical flange.
- The flooring substrate is covered with a tile underlay, ensuring a minimum of 20mm overlap over the horizontal flange.
- The waterproof membrane must completely cover the horizontal flanges and into the front face of the channel trough. It is optional to waterproof the trough, however, ensure the outlet is not covered.
- The grate is inserted into the channel.
- Connection to the waste pipe must be carried out before the floor cavity is permanently closed and prior to completion of the works.
- Floor tiles shall finish flush with the trough edge.
- Wall tiles to finish 10mm above the bottom of the trough

### *Concrete Floor*

The Jesani® Wall Mounted Shower Channel is installed on a concrete floor by:

- Boxing out the area required for the channel, ensuring the concrete floor can be constructed with the correct falls.
- The channel is then installed into the rebated area and connected to the waste pipe.
- Concrete is poured and compacted around the channel to allow it to sit firmly in position, and the concrete 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 are achieved.
- When the concrete has dried, the channel is fixed to the concrete floor using nail-in nylon plugs using the pre-drilled holes.
- For wall-fixed installations, the vertical flange is screw-fixed to wall framing or to concrete/masonry walls using the pre-drilled holes.
- The waterproof membrane must completely cover the horizontal flanges and into the front face of the channel trough. It is optional to waterproof the trough, however, ensure the outlet is not covered.
- The grate is inserted into the channel.
- Floor tiles shall finish flush with the trough edge.
- Wall tiles to finish 10mm above the bottom of the trough

## JESANI® THRESHOLD OR CENTRE SHOWER CHANNEL

### *Timber Framed Floor*

The Jesani® Threshold or Centre Shower Channel is installed on a timber-framed floor by:

- Cutting the correct size slot for the trough in the flooring substrate (plywood or other sheet flooring material) and the channel fitted into the slot.
- The channel is then screw-fixed to floor framing using the pre-drilled holes in the flanges.
- The flooring substrate is covered with a tile underlay, ensuring a minimum 20mm overlap over the horizontal flange.
- The waterproof membrane must completely cover the horizontal flanges and into the front face of the channel trough. It is optional to waterproof the trough, however, ensure the outlet is not covered.
- Underfloor Heating will provide a height variation from the bathroom side of channel to the shower side of channel. Consideration is necessary to ensure a level finish of both sides of channel to match the finished grill height.
- The grate is inserted into the channel.
- Connection to the waste pipe must be carried out before the floor cavity is permanently closed prior to completion of the works.
- Floor tiles either side of the channel shall finish flush with the trough edge.
- Wall tiles at either end of channel to finish 10mm above the bottom of the trough.

### *Concrete Floor*

The Jesani® Threshold or Centre Shower Channel is installed on a concrete floor by:

- Boxing out the area required for the channel, ensuring the concrete floor can be constructed with the correct falls.
- The channel is then installed into the rebated area and connected to the waste pipe.
- Concrete is poured and compacted around the channel to allow it to sit firmly in position, and the concrete 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 are achieved.
- When the concrete has dried, the channel is fixed to the concrete floor using nail-in nylon plugs using the pre-drilled holes in the horizontal flange(s).
- The waterproof membrane must completely cover the horizontal flanges and into the front face of the channel trough. It is optional to waterproof the trough, however, ensure the outlet is not covered.
- Underfloor Heating will provide a height variation from the bathroom side of channel to the shower side of channel. Consideration is necessary to ensure a level finish of both sides of channel to match the finished grill height.
- The grate is inserted into the channel.
- Floor tiles either side of the channel shall finish flush with the trough edge.
- Wall tiles at either end of channel to finish 10mm above the bottom of the trough.

## JESANI® VINYL CLAMP SHOWER CHANNEL

### *Timber Framed Floor*

The Jesani® Vinyl Clamp Channel is installed on a timber-framed floor by:

- Cutting the correct size slot for the trough in the flooring substrate (plywood or other sheet flooring material) and the channel fitted into the slot.
- The channel is then screw-fixed to floor and/or wall framing using the pre-drilled holes in the horizontal and/or vertical flanges.
- The waterproof membrane must completely cover the horizontal flanges.
- Ensure vinyl finishes in the clamping zone for the clamping system to be installed correctly.
- The grate is inserted on top of the clamping carriage.
- Connection to the waste pipe must be carried out before the floor cavity is permanently closed and prior to completion of the works.

### *Concrete Floor*

The Jesani® Vinyl Clamp Channel is installed on a concrete floor by:

- Boxing out the area required for the channel, ensuring the concrete floor can be constructed with the correct falls.
- The channel is then installed into the rebated area and connected to the waste pipe.
- Concrete is poured and compacted around the channel to allow it to sit firmly in position, and the concrete 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 are achieved.
- When the concrete has dried, the channel is fixed to the concrete floor using nail-in nylon plugs using the pre-drilled holes in the horizontal flange(s).
- The waterproof membrane must completely cover the horizontal flanges.
- Ensure vinyl finishes in the clamping zone for the clamping system to be installed correctly.
- The grate is inserted on top of the clamping carriage.

## JESANI® SLIMLINE CHANNEL

### *Timber Framed Floor*

The Jesani® Slimline Channel is installed on a timber floor by:

- Cutting the correct size slot for the trough in the flooring substrate (plywood or other sheet flooring material) and the channel fitted into the slot
- The channel is then screw-fixed to wall and floor framing using the pre-drilled holes in the horizontal and vertical flanges.
- The walls are then lined, ensuring a minimum 20mm overlap over the vertical flange.
- Where specified, the flooring substrate is covered with a tile underlay, ensuring a minimum 20mm overlap over the horizontal flange.
- The waterproof membrane must completely cover the horizontal flanges and into the front face of the channel trough. It is optional to waterproof the trough, however, ensure the outlet is not covered.
- The grate is inserted into the channel.
- Connection to the waste pipe must be carried out before the floor cavity is permanently closed and prior to the completion of the works.
- Floor tiles shall finish flush with the trough edge.
- Wall tiles to finish 10mm above the bottom of the trough.

### *Concrete Floor*

The Jesani® Slimline Channel is installed on a concrete floor by:

- Boxing out the area required for the channel.
- The channel is then installed inside the formwork and connected to the waste pipe.
- Concrete is poured and compacted around the channel to allow it to sit firmly in position, and the concrete allowed to dry for a minimum of 12 hours.
- The concrete for the remainder of the floor is then poured.
- When the concrete has dried, the channel is fixed to the concrete floor using nail-in nylon plugs using the pre-drilled holes in the horizontal flange.
- The vertical flange is screw-fixed to wall framing or to concrete/masonry walls using the pre-drilled holes in the vertical flange.
- The waterproof membrane must completely cover the horizontal flanges and into the front face of the channel trough. It is optional to waterproof the trough, however, ensure the outlet is not covered.
- The grate is inserted into the channel.
- Floor tiles shall finish flush with the trough edge.
- Wall tiles to finish 10mm above the bottom of the trough.

## JESANI® APPLIANCE CHANNEL

### *Timber Framed Floor*

The Jesani® Appliance Channel is installed on a timber-framed floor by:

- Ensure you have the correct plumbing set up as per **Acceptable Solution G13/AS1**:
  - a. Dry waste
  - b. Multiple outlets – **See Figure 2: Multiple Outlets**
  - c. Dry waste system – **See Figure 3: Floor waste stacks and pipes.**
- Cutting the correct size slot for the trough in the flooring substrate (plywood or other sheet flooring material).
- The channel fitted into the cut slot, ensuring the wider horizontal flange situated on the 'wet' side of the door opening.
- The channel is then screw-fixed to floor framing either side using the pre-drilled holes in the horizontal flanges.
- The 'wet' side flooring substrate is covered with a tile underlay, ensuring a minimum 20mm overlap over the horizontal flange.
- The waterproof membrane must completely cover the flange on the 'wet' side of the channel.
- The grate is inserted into the channel.
- Connection to the waste pipe must be carried out before the floor cavity is permanently closed and prior to completion of the works.
- Floor tiles on the 'wet' side of the channel shall finish flush with the trough edge.
- Vinyl on the 'wet' side of the channel shall finish flush against the internal upstand.
- Floor coverings on the 'dry' side of the channel shall finish against the flange upstand.

### *Concrete Floor*

Jesani® Appliance Channel is installed on concrete floor by:

- Ensure you have the correct plumbing set up as per **Acceptable Solution G13/AS1**:
  - a. Dry waste
  - b. Multiple outlets – **See Figure 2: Multiple Outlets**
  - c. Dry waste system – **See Figure 3: Floor waste stacks and pipes.**
- Boxing out the area required for the channel.
- The channel is then installed inside the formwork, ensuring the wider horizontal flange situated on the 'wet' side of the door opening, and connected to the waste pipe.
- Concrete is poured and compacted around the channel to allow it to sit firmly in position, and the concrete allowed to dry for a minimum of 12 hours.
- The concrete for the remainder of the floor is then poured.
- When the concrete has dried, the channel is fixed to the concrete floor with nail-in nylon plugs using the pre-drilled holes in the horizontal flanges.
- The waterproof membrane must completely cover the flange on the 'wet' side of the channel.
- The grate is inserted into the channel.
- Floor tiles on the 'wet' side of the channel shall finish flush with the trough edge.
- Vinyl on the 'wet' side of the channel shall finish flush against the internal upstand.
- Floor coverings on the 'dry' side of the channel shall finish against the flange upstand.

#### **1.4.17 Completion**

Check the Jesani® Wetroom Drainage Channels have been correctly installed in accordance with the manufacturer's requirements to the locations, layout and details shown on the design drawings. Ensure each drainage channel is connected to the associated plumbing and there is unobstructed drainage flow at the channel outlet.

Check the drainage channel installation is correctly positioned and aligned for subsequent tiled floor finishes and other adjacent floor coverings where applicable.

Check the installation for damage and defects. Carry out any necessary repairs/replacement to the required standard. Replace drainage channels where repair is not possible or unacceptable.

Leave this work complete, in full working order and to the required standard.

Leave surrounding surfaces clean and free of rubbish and debris. Remove all rubbish and excess material from the site.

Issue the Owner a copy of the Jesani Distributions Ltd maintenance requirements, and a copy of the Jesani Distributions Ltd Warranty.

Where required, issue all required As-Built Documentation to the relevant parties.