

# ACO Cantilever Product Information Sheet

**Product Name:**

ACO ThresholdDrain Cantilever

**Product description and intended use:**

ACO Cantilever threshold system is intended to be installed adjacent to entrance doors and complies with the prescribed requirements of E2 External Moisture of the New Zealand Building Code. ThresholdDrain Cantilever frames are available in 1000mm and 2000mm lengths in galvanized or stainless steel (304).

Cantilever threshold system can accommodate five different grate pattern designs complying with Clause 9 - AS 1428.2, Access and Mobility, ensuring safe passage of walking canes and wheelchairs. Four Heelsafe grate options are also offered.

**Product identifier:**

ThresholdDrain Stainless Steel frame Part No. 73048 (1000mm) &amp; 73049 (2000mm)

ThresholdDrain Galvanised Steel frame Part No. 73050 (1000mm) &amp; 73051 (2000mm)

**Place of manufacture:**

Aotearoa New Zealand

Overseas

**Legal and trading name of the manufacturer(s):**

The products disclosed in this Building Product Information Requirement (BPIR) are manufactured in New Zealand using imported components by ACO who may be considered as the manufacturer. The design and intellectual property of the collective final product and imported componentry belong to the ACO Group and ACO Limited, who is considered the manufacturer of this product range.

**Address for service:**

Street name: 35 Te Tiki Road

Suburb: Mangere

City, Country: Auckland, New Zealand

Postcode: 2022

Website: [thresholddrain.co.nz/thresholddrain/](https://thresholddrain.co.nz/thresholddrain/)Email address: [sales@aconz.co.nz](mailto:sales@aconz.co.nz)

Phone number: +64 815 9500

**Legal and trading name of the importer (if applicable):**

ACO Limited

**Address for service:**

Street name:	35 Te Tiki Road	Suburb:	Mangere
City, Country:	Auckland, New Zealand	Postcode:	2022
Website:	www.aconz.co.nz		
Email address:	info@aconz.co.nz		
Phone number:	0800 448 080		
NZBN:	9429030838697		

**Relevant Building Code clauses:**

NBZC E1/AS1 Surface water  
NZBC E1/AS2 Surface water  
NZBC E2/AS1 External moisture

**Statement on how the building product is expected to contribute to compliance:**

## NZBC E1 Surface Water:

- E1.1/E1.2: ACO ThresholdDrain Cantilever threshold system has been designed to safeguard people from injury or illness, and other property from damage caused by surface water.
- E1.3.1/E1.3.2: When installed as per ACO documentation, ACO ThresholdDrain Cantilever will protect property from surface water resulting from an event having a 10% probability of occurring annually or from surface water resulting from an event having a 2% probability of occurring entering a building.
- E1.3.3: When appropriately selected and installed correctly, ACO ThresholdDrain Cantilever will convey surface water to an appropriate outflow using gravity flow where possible, avoid the likelihood of blockages and provide reasonable access for the maintenance and clearing of blockages within the threshold drain system and avoid the likelihood of damage from superimposed loads of normal ground movement.

## NZBC E2 External Moisture:

- E2.7.3.2.1: ACO ThresholdDrain Cantilever system complies with requirements stated in this clause
  - Minimum channel size 150mm x 200mm and a maximum length of 3700mm between outlets.
  - Ability to create a 1:200 fall along length of channel towards a drainage outlet, discharging to the surface water drainage system via a sump.
  - Channel and grate supported independently of the door frame, grating removable to allow access for cleaning and maintenance.
  - Gaps to prevent the wheels of wheel chairs and other mobility aids entering or being trapped in the grate.
  - A Continuous gap of 12mm minimum from door frame and wall cladding.

If properly maintained with normal maintenance, ACO products installed in the correct application and according to ACO's installation instructions will hold their integrity for as long as the adjacent pavement will. ACO ThresholdDrain will meet the requirements of these such building elements as per B2.3.1 (b) 15 years and (c) not less than 5 years.

### Limitations of the use of the building product:

ACO ThresholdDrain Cantilever drainage system has been designed for compliance in New Zealand with reference to the New Zealand Building Codes (NZBC) listed above.

ACO ThresholdDrain Cantilever is designed for areas accessible only to pedestrians and pedal cyclists.

If ACO ThresholdDrain Cantilever is to be used in areas where acids and dilute alkalis are encountered please refer to the chemical resistance information found here: <https://www.acodrain.co.nz/resources/technical-data.htm>

### Design requirements that would support the use of the building product:

Where level entry accessibility is required.

Scenarios where full access to the level threshold is required for maintenance or inspection as required.

A continuous gap of 12mm minimum is required from door frame and wall cladding.

### Installation requirements:

The complete drainage system shall be by ACO and be installed for its intended purpose. Any deviation or partial use of the specified system and/or improper installation will void all warranties provided by ACO.

Installation of the ThresholdDrain is to be carried out by appropriately qualified personnel to applicable legislative requirements. All work should commence under the direct supervision of a certifying drainlayer as per the Plumbers, Gasfitters and Drainlayers Act 2006.

Please refer to the installation manual and relevant site installation files found on our website. Further site installation support is available: <https://thresholddrain.co.nz/thresholddrain/>

### Maintenance requirements:

Regular inspections of the grated pit are recommended. Frequency will depend on local conditions and environment but should at least occur annually.

Inspections should cover:

- Fully removing grates for clear access.
- Concrete surround & adjacent paving.

All items should be inspected for damage, blockage or movement and compared with site drawings if needed.

Is the building product/building product line subject to warning or ban under section 26?  No

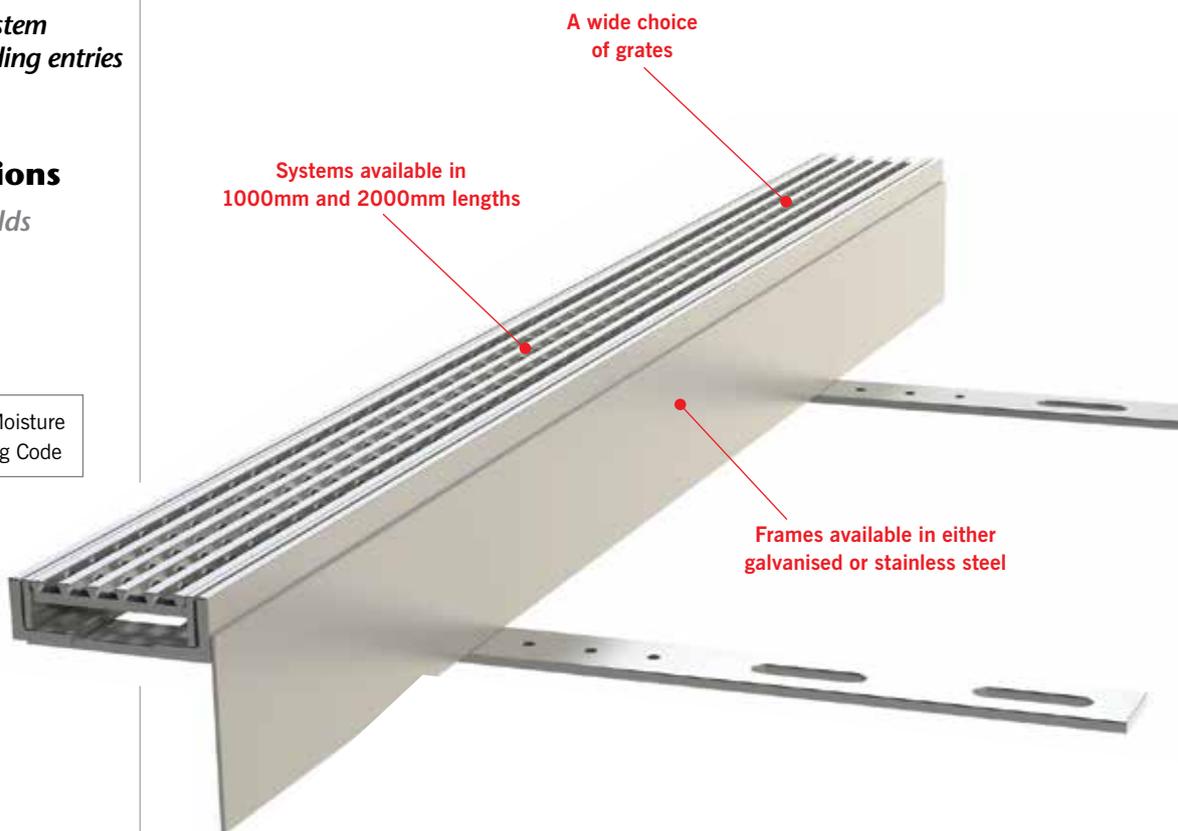
## ThresholdDrain

*Cantilever drainage system for level threshold building entries*

### Typical Applications

- Level entry thresholds
- Balconies
- Outdoor decks
- Entertaining areas

Meets clause E2 External Moisture of the New Zealand Building Code



## Product Table

Frames				
	Description	Part No.	Length mm	Weight kg
	ThresholdDrain Stainless Steel Frame <sup>1</sup>	73048	1000	6.8
	ThresholdDrain Stainless Steel Frame <sup>1</sup>	73049	2000	13.3
	ThresholdDrain Galvanised Steel Frame <sup>2</sup>	73050	1000	6.5
	ThresholdDrain Galvanised Steel Frame <sup>2</sup>	73051	2000	12.8

Grates						
	Description	Part No.	Length mm	Weight kg	Slot Size mm	Intake Area mm <sup>2</sup>
	<b>Perforated</b>					
	Stainless Steel <sup>1</sup>	95165	1000	1.8	6.5Ø	10,325
	Galvanised Steel <sup>2</sup>	94699	1000	1.8	6.5Ø	10,325
	<b>Slotted</b>					
	Stainless Steel <sup>1</sup>	95545	1000	1.8	34.5 x 10	12,260
	Galvanised Steel <sup>2</sup>	95537	1000	1.8	34.5 x 10	12,260
	<b>Stainless 5 Star Heelsafe® Anti-Slip</b>					
	Stainless Steel <sup>1</sup>	141761	1000	2.7	21 x 5	30,135
	<b>Longitudinal</b>					
	Stainless Steel <sup>1</sup>	141475	1000	1.6	50 x 5	24,000
	Galvanised Steel <sup>2</sup>	141476	1000	1.6	50 x 5	24,000
	<b>Iron Intercept Heelsafe® Anti-Slip</b>					
	Ductile Iron	95553	500	3.3	38 x 8	11,615

1. Grade 304 stainless steel

2. Galvanised steel frames and grates are not recommended in seaspray zones. For NZ seaspray zones, refer to Department of Building and Housing – Simple house acceptable solution SH/AS1 Clause 2.5.2 and Figure 2.4.

### ACO Limited

www.aconz.co.nz

#### Head Office:

35 Te Tiki Road  
Mangere, Auckland 2022  
New Zealand

#### Sales Hotline:

Tel: 0800 448 080  
Fax: +64 (0)9 255 5114  
Email: info@aconz.co.nz

#### Follow us on



© 2015 ACO Limited. All reasonable care has been taken in compiling the information in this document. All recommendations and suggestions on the use of ACO products are made without guarantee since the conditions of use are beyond the control of the company. It is the customer's responsibility to ensure that each product is fit for its intended purpose and that the actual conditions are suitable. ACO Limited, pursues a policy of continuous product development and reserves the right to amend specifications without notice.

