

Accrete SERIES 2 Two Stage Level Threshold Grate System

Product Technical Statement: 111700



Captures stormwater and cladding water and allows a step free transition from indoors to outdoors

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Level of assurance needed to demonstrate NZ Building Code Compliance

Supporting documentation should include self-assessment and technical information by manufacturer



Accrete confirms that this minimum level of assurance has been met or exceeded by the following:

CodeMark

[E2](#)

Technical Statement

Scope of use

The Accrete Two Stage Series 2 Channel and Grate system has been designed to solve all level threshold situations where the end user requires a step free transition from the outdoors to inside.

The Stainless Steel channel is custom made with inbuilt fall running to either the inline sumps or dropper outlets to eliminate the need to either box out channel or screed the fall on site.

The Specifically design lock in cross braces not only keep the channel in shape during installation, but also create a patented lock in system for the grates to stop any movement in them.

Once the channel is installed the grates are custom made with a variety of slot pattern options at the desired width to allow for the required 12mm grate to cladding/joinery gap.

The Accrete two stage channel and grate systems all provide a nice straight outside channel edge to finish up against with tiles, pavers or exposed aggregate concrete with the grate widths changing to allow for different cladding types and joinery situations.

At Accrete Design we custom make all our products and although our Two Stage systems are made to Class A load rating we can certainly increase this after some consultation to establish your requirements.

New Zealand Building Code (NZBC)

The product will, if employed in accordance with the supplier's installation and maintenance requirements, assist with meeting the following provisions of the building code:

- **Clause E1 Surface water:** Performance E1.3.1, E1.3.2, E1.3.3, E1.3.3(a), E1.3.3(b), E1.3.3(c), E1.3.3(d), E1.3.3(e), E1.3.3(f)
- **Clause E2 External moisture:** Performance E2.3.1, E2.3.2, E2.3.3, E2.3.4, E2.3.5, E2.3.6, E2.3.7, E2.3.7(a), E2.3.7(b), E2.3.7(c)

Evidence

The product meets the requirements set out in the following documents, or relevant parts of cited standards within the documents:

NZBC E1/AS1 Surface water

NZBC E2/AS1 External moisture

AS/NZS 3500.3 Plumbing and drainage – stormwater drainage

Supporting Evidence

The product has and can make available the following additional evidence to support the above statements:



CodeMark

[E2](#)

Use in Service History

The product has been used extensively through out New Zealand on many new school builds, Retirement Villages and private residences.

Installations of note would be the Christchurch Central Library, and Christchurch Town Hall to name only a couple.

Product Criteria

Company Contact Details



Company: Accrete Design and Engineering

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Accrete SERIES 2 Two Stage Level Threshold Gate System

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Design requirements

The Accrete Two Stage series channel and grate system has been designed to meet the NZBC E2 7.3.2 Level threshold for ground level. figure 17B

Installation requirements

When installing the Accrete Two Staged system, simply set the channel against the foundation with the top edge of the channel sitting at the external FFL. The channel has the fall built in, so simply bolt together the custom made sections of channel follow as easy to follow numbered layout drawings.

Corner units, inline sumps/outlets are all made for you in our factory so there is no need to cut the channel to length, we've already made it to the supplied foundation measurements.

Maintenance requirements

With the Accrete Design patented channel cross supports the grate is held tightly in place but yet is easily removable to allow the channel to be cleared of any debris and cleaned out.

Company Product Information

Relationships



New Zealand Made



Date last validated: **13 September 2021**



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