



GAME-CHANGING FLUSH-SILL INNOVATION FROM EZIAL

Patent Number: 2016256750



WHAT LIES BENEATH?

Get the inside story on what separates Ezial's Integrate innovation from inferior market alternatives.



NOT ALL FLUSH FLOOR DOOR SYSTEMS ARE CREATED EQUAL

When it comes to flush sill thresholds, it's what's beneath the surface that matters most. With the demand for perfectly flat room transitions continuing to grow, only Integrate offers a complete system with proven compliance, weatherability and durability built in.

This innovative, all-in-one system boasts fully integrated, high-capacity water drainage and requires absolutely no on-site customisation, ensuring easy installation, reduced labour costs and a guaranteed flush finish every time. Save time and money, while eliminating the risk and cost of overflow and flooding, with Integrate.

INTEGRATE OFFERS COMPLIANCE BUILT IN



FULLY AS1428.1 COMPLIANT
ACCESSIBILITY AND MOBILITY STANDARDS

FULLY AS2047 COMPLIANT
450PA WATER PENETRATION RESISTANCE

AS4586-2013 TESTED
WET PENDULUM SLIP RESISTANT

INTEGRATE FAST FACTS



**ALL-IN-ONE SYSTEM WITH
INTEGRATED DRAINAGE SUMP**



**HIGH-VELOCITY
WATER DRAINAGE**



**DESIGNED TO BLOCK
LEAVES & DEBRIS**



**STYLISH &
CONTEMPORARY**



**PERFECTLY FLAT
ROOM TRANSITIONS**



**EASY ON-SITE
INSTALLATION**

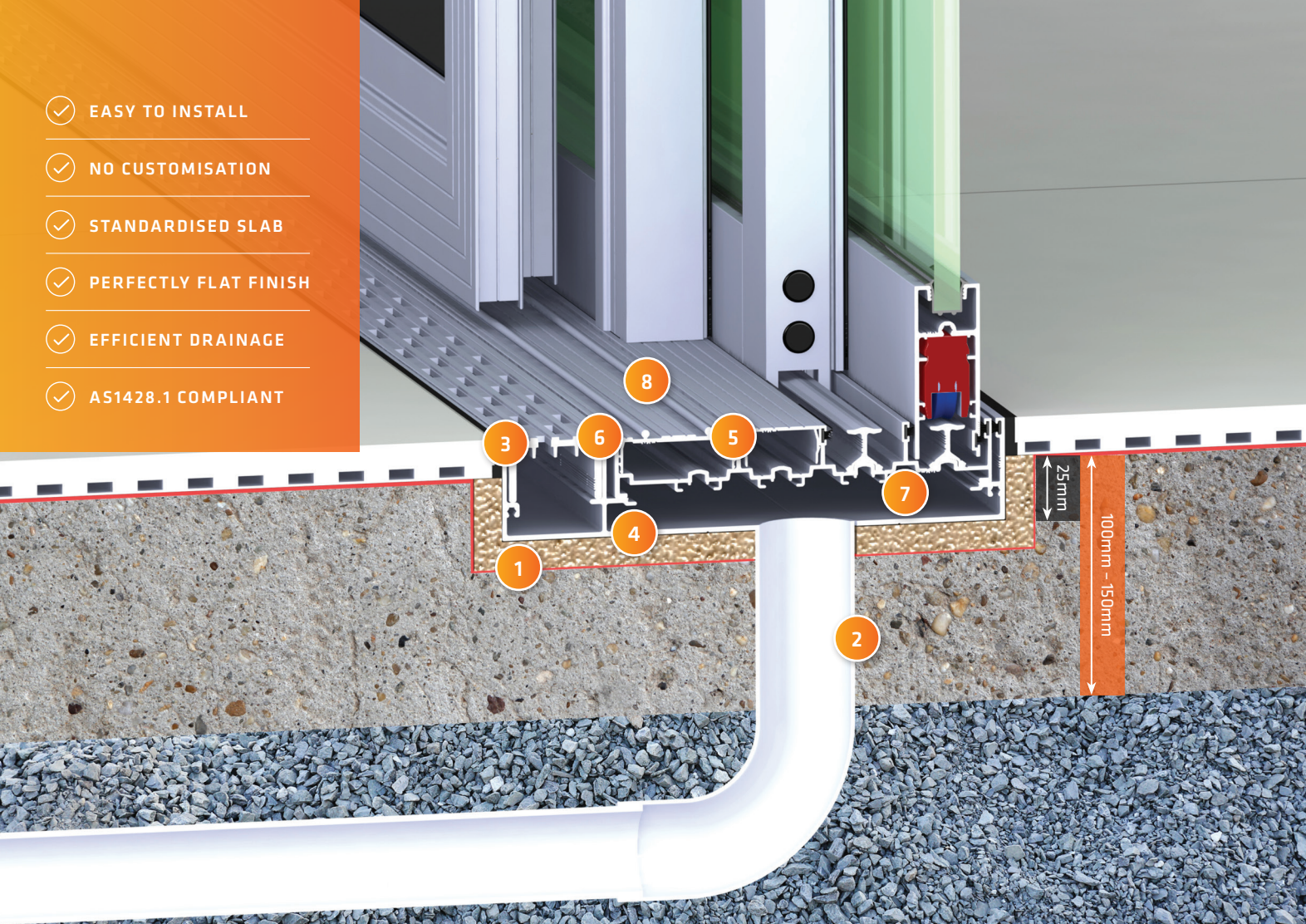


**NO CUSTOM DESIGN
REQUIRED**



**REDUCED
LABOUR COSTS**

- ✓ EASY TO INSTALL
- ✓ NO CUSTOMISATION
- ✓ STANDARDISED SLAB
- ✓ PERFECTLY FLAT FINISH
- ✓ EFFICIENT DRAINAGE
- ✓ AS1428.1 COMPLIANT



EZIAL'S GROUND BREAKING INTEGRATE INNOVATION



1. SHALLOW FLAT STANDARDISED SLAB RECESS

Integrate only requires a 25mm shallow flat recess making it easy to form the inside and outside slab in one single pour. Additionally, Integrate features a standardised slab recess detail across each system, eliminating the need for custom slab designs.

2. SINGLE DRAINAGE PIPE *

Integrate's all-in-one drainage sump increases overall water capacity by draining the entire sump from the underside of the sill chamber. This simplifies plumbing requirements, enabling a large diameter single drainage pipe for high-velocity drainage.

3. SERVICEABLE DRAIN GRATE

Any leaves and debris that enter the system through the drain grate are contained in the serviceable drain grate container – away from the drainage pipe. The pre-slotted wall between the sill chamber acts as a secondary filter, significantly reducing the risk of any blockages.

4. ALL-IN-ONE INTEGRATED SYSTEM

Standardised sill and drain grate incorporated into an all-in-one drainage sump. This innovative design is cost effective and easy to install with stock lengths of up to 7.2m readily available.

5. PERFECTLY FLAT FINISH

Innovative all-in-one drainage sump guarantees simple installation and perfectly flat finish every time.

6. COMPLETELY ALUMINIUM

All Integrate components are aluminium, eliminating any corrosion issues caused by the combined use of dissimilar metals.

7. STANDARDISED & INTERCHANGEABLE

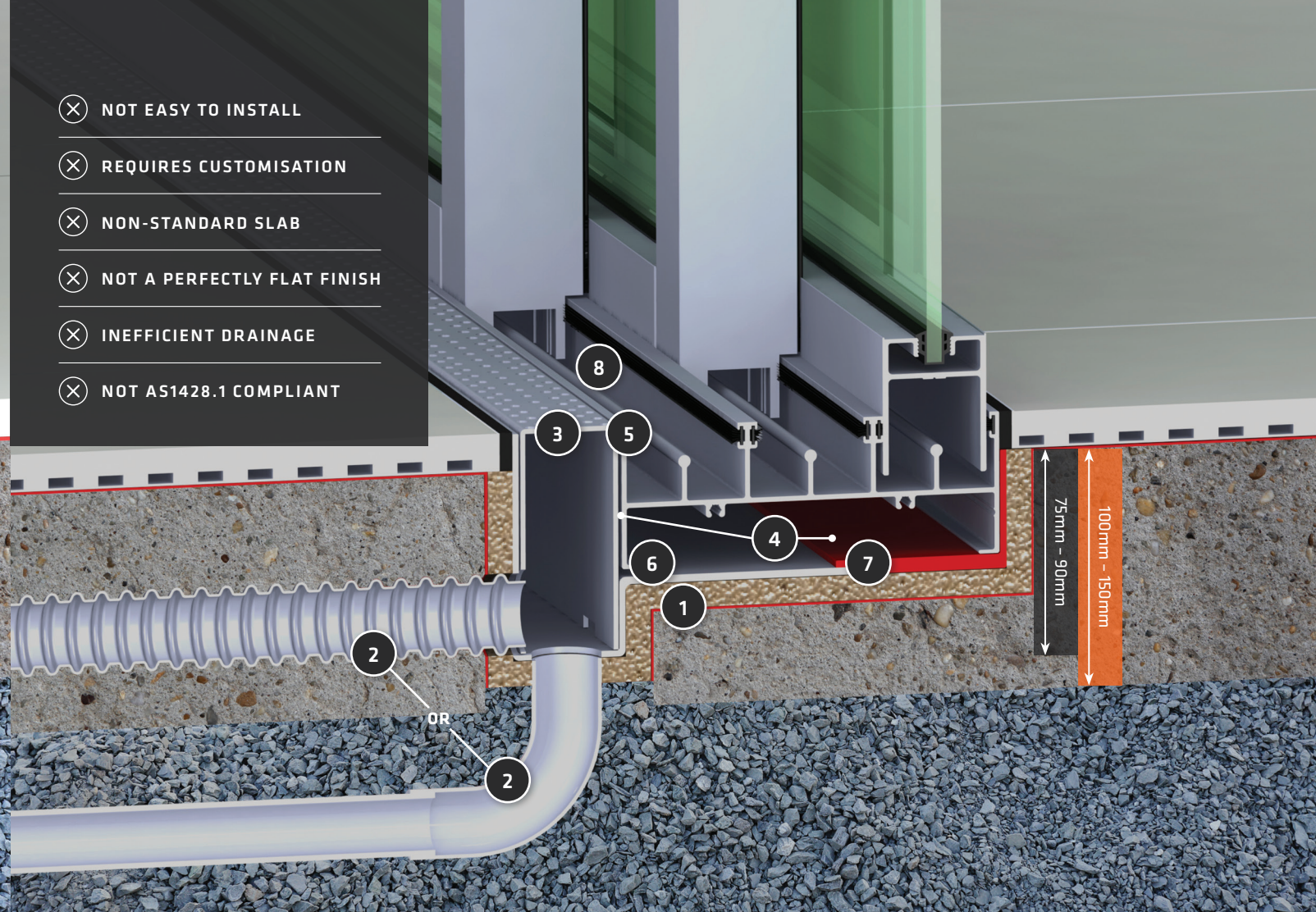
Standard detail for every opening with interchangeable sill sections available to suit multiple door systems and configurations.

8. AS1428.1 COMPLIANT WITH SCREENING

Range of top and bottom rolling sliding door systems designed with only 8mm gaps comply with AS1428.1 accessibility and mobility standards including fully compliant screen track provisions.

*Extra drainage may be required for lengths over 2.5 metres. Consult a professional hydraulic engineer if in doubt.

- ✗ NOT EASY TO INSTALL
- ✗ REQUIRES CUSTOMISATION
- ✗ NON-STANDARD SLAB
- ✗ NOT A PERFECTLY FLAT FINISH
- ✗ INEFFICIENT DRAINAGE
- ✗ NOT AS1428.1 COMPLIANT



OTHER INFERIOR FLUSH FLOOR DOOR SYSTEMS

1. DEEP STEPPED CUSTOMISED SLAB RECESS

90mm deep stepped recess requiring extra-thick slab design in order to accommodate plumbing underneath. Custom slab recess detail required for each system type. Difficult nature of customised slab makes forming inside and outside slab in one pour very difficult, resulting in additional labour to rectify workmanship or the need to pour the inside and outside slabs in two separate processes.

2. MULTIPLE DRAINAGE PIPES REQUIRED

Offers limited water capacity draining from multiple small-diameter pipes beneath the deep separate drainage channel OR horizontally through the vertical face via multiple small-diameter 25mm flexible pipes at 900mm intervals. In order to retain sufficient fall, these flexible horizontal pipes are plumbed higher than the lowest point in the drainage channel, leading to permanent water collection at the bottom of the channel. This is problematic and can lead to health and environmental hazards arising from stagnant water.

3. INEFFICIENT DRAINAGE

The drain grate is installed directly over the drainage channel. Draining directly from the external drainage channel allows leaves and debris to enter and block the smaller drainage pipes, increasing the risk of blockages, overflow and flooding.

4. MULTIPLE SEPARATE COMPONENTS

Other systems use an expensive separate stainless steel drain grate – only available in 1m lengths. Additional requirements for custom-made stainless steel flashing or multi-part aluminium extrusions result in long lead times and expensive custom labour costs. Max lengths of 3.6m require multiple joins, further slowing installation time and accuracy.

5. DISJOINTED FINISH

Precisely assembling multiple disjointed components relies heavily on the accuracy of the slab recess and the skill of the installer, making it difficult to achieve a perfectly flat floor finish.

6. CORROSION ISSUES

Galvanic corrosion issues caused through the use of stainless steel together with aluminium.

7. CUSTOM & RESTRICTED

Custom design for every situation drastically reduces the range of suitable door systems and configurations.

8. NOT COMPLIANT & LIMITED SCREENING

Large gaps greater than 8mm do not comply with AS1428.1 while offering very limited screening options.

SUMP / FRAME SIZES

- 40mm deep x 100mm wide sump compatible with 50mm door and window systems
- 40mm deep x 150mm wide sump compatible with 101.6mm door and window systems
- 40mm deep x 200mm wide sump compatible with 150mm door and window systems

MAXIMUM OPENING SIZE

- 3.1m high x 18m wide

MAXIMUM PANEL SIZE

- 3.1m high x 3.2m wide

MAXIMUM PANEL WEIGHT

- 300kgs

MAXIMUM NO. OF PANELS

- 4 left + 4 right (8 in total) – Sliding
- 8 left + 8 right (16 in total) – Bifold

GLAZING RANGE

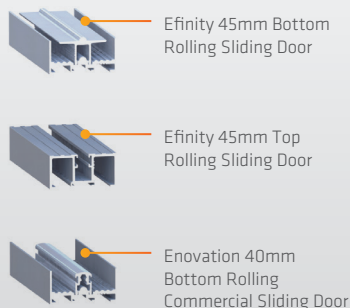
- 5mm - 13.5mm (single glaze)
- 13mm - 30mm (double glaze)

TEST RESULTS

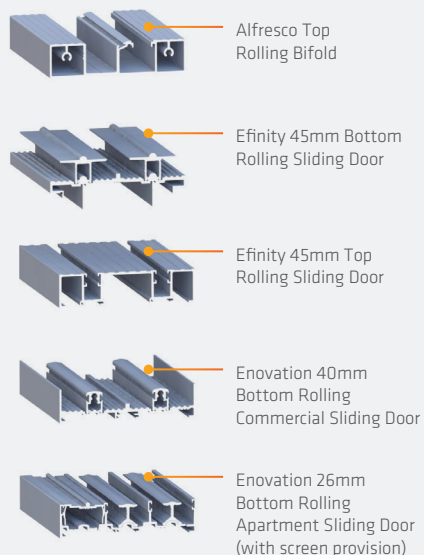
- 26mm Sliding Door with Integrated 101.6mm Outer Frame
- Test Report Number: AZT0332.16
- Test Sample Size: 2000mm H x 2000mm W – OX
- Test Sample Type: Sliding / Fixed Door with Integrate Sill
- Water Penetration: 450Pa
- Air Infiltration: @75Pa + 0.32 / s / m² - 0.08 / s / m²

INTEGRATE IS COMPATIBLE WITH THE FOLLOWING EZIAL SYSTEMS

100MM SUMP



150MM SUMP



200MM SUMP

