

THUNDAFLO E2 LEVEL THRESHOLD CHANNEL



MODULAR SYSTEM - Width & Height Adjustment during Installation

Off the shelf Compliant with Level Entry requirements of NZBC E2/AS1 and MOE Weathertightness Design Requirements for New Schools, Version 3, Sept 2020.

Key Features

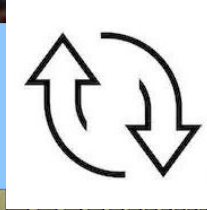
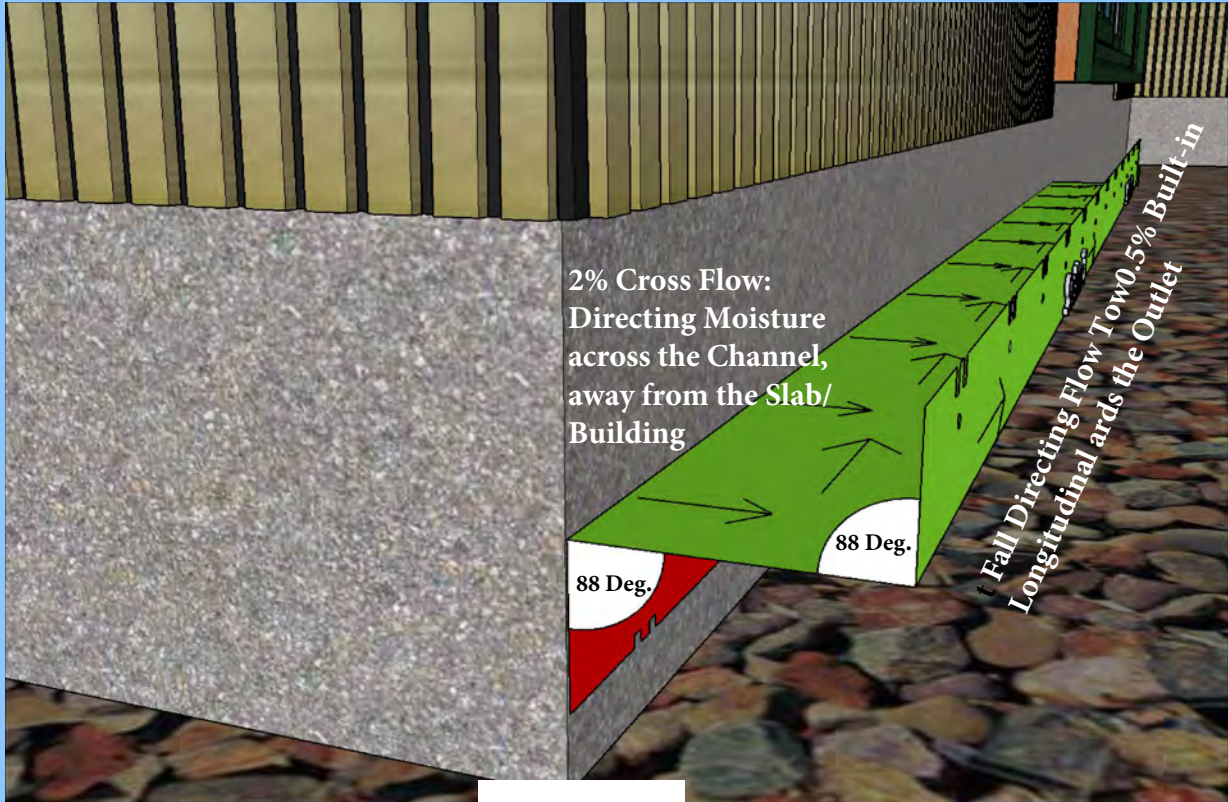
- Built-in-Longitudinal Fall 1:200 along the channel; No need to scree in Fall
- Built-in-Cross Fall 1:50 across the channel to direct moisture away from slab/Building
- Channel Dimensions: 3000mm (L) X 200mm (W) X 150mm (D Min. with 0.5% Fall)
- Easy to Adjust Length, Height and Width (Grate and Varying Building Profile) during installation
- Load Bearing along each section can be Adjusted by Varying the Distance between the Support Systems. For example, 250mm intervals (Vehicle entrance), 500mm (Pedestrian entrance) 750mm & 1000mm (No traffic).
- In-Line Sumps
- Outlets: Knock-outs in Sump and Channel Sections to fit Marley Kerb Outlet
- Corners: External & Internal
- Grating: Laser Cut Stainless, Wedge-wire Stainless, Fibre Reinforced Polymer
- Stainless Steel Grate Widths (Laser Cut & Wedge-wire) : 45mm, 55mm, 65mm, 75mm, 85mm
- FRP Grate Widths: 120mm, & 160mm
- All Exposed Components are Stainless Steel except Fibre Reinforced Grating.
- The Complete System can be Installed prior to Concrete pour: No need to haunch Channel Sections or Scree in Fall and/or Fit grates after Installation.~

3.0 L/m Channel Sections

Four Sections @ 0.5% Built-in-Fall along the section (Depth varies by 15mm per 3000mm length)

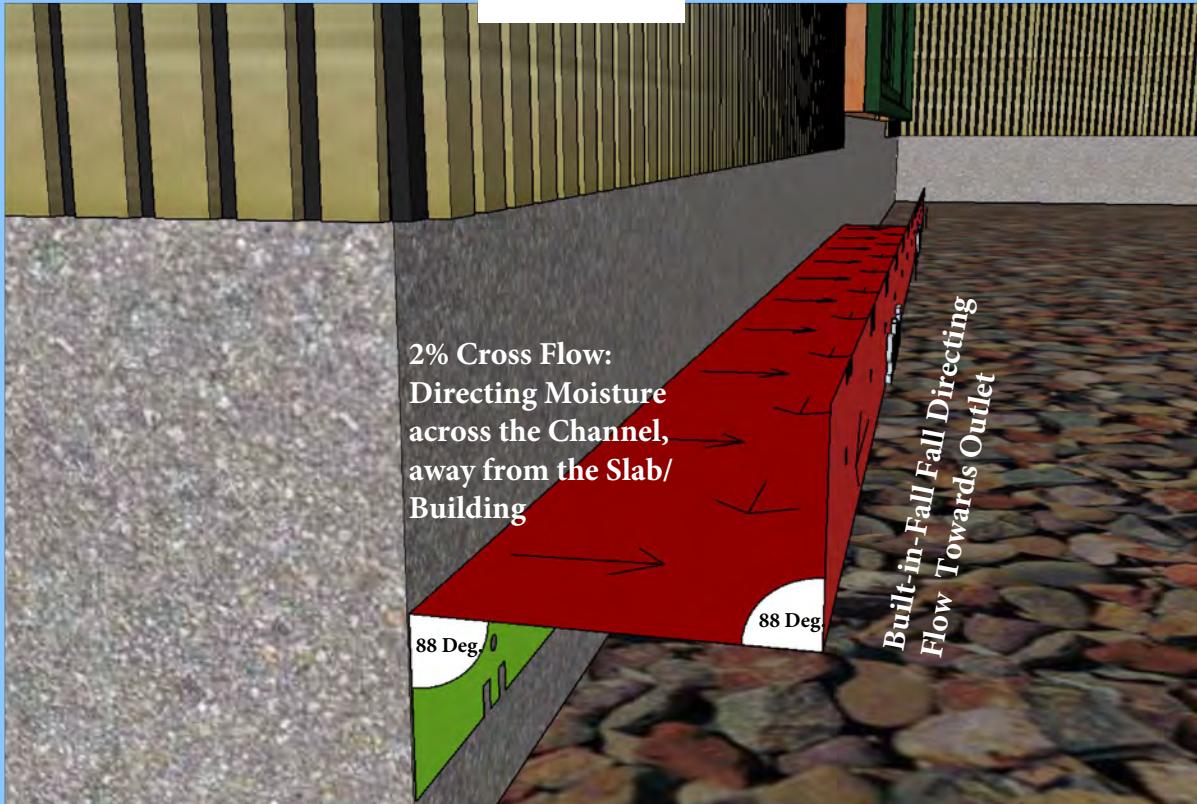
Overall depth change over 4 sections X 15mm = 60mm

Built-in-Fall Left to Right

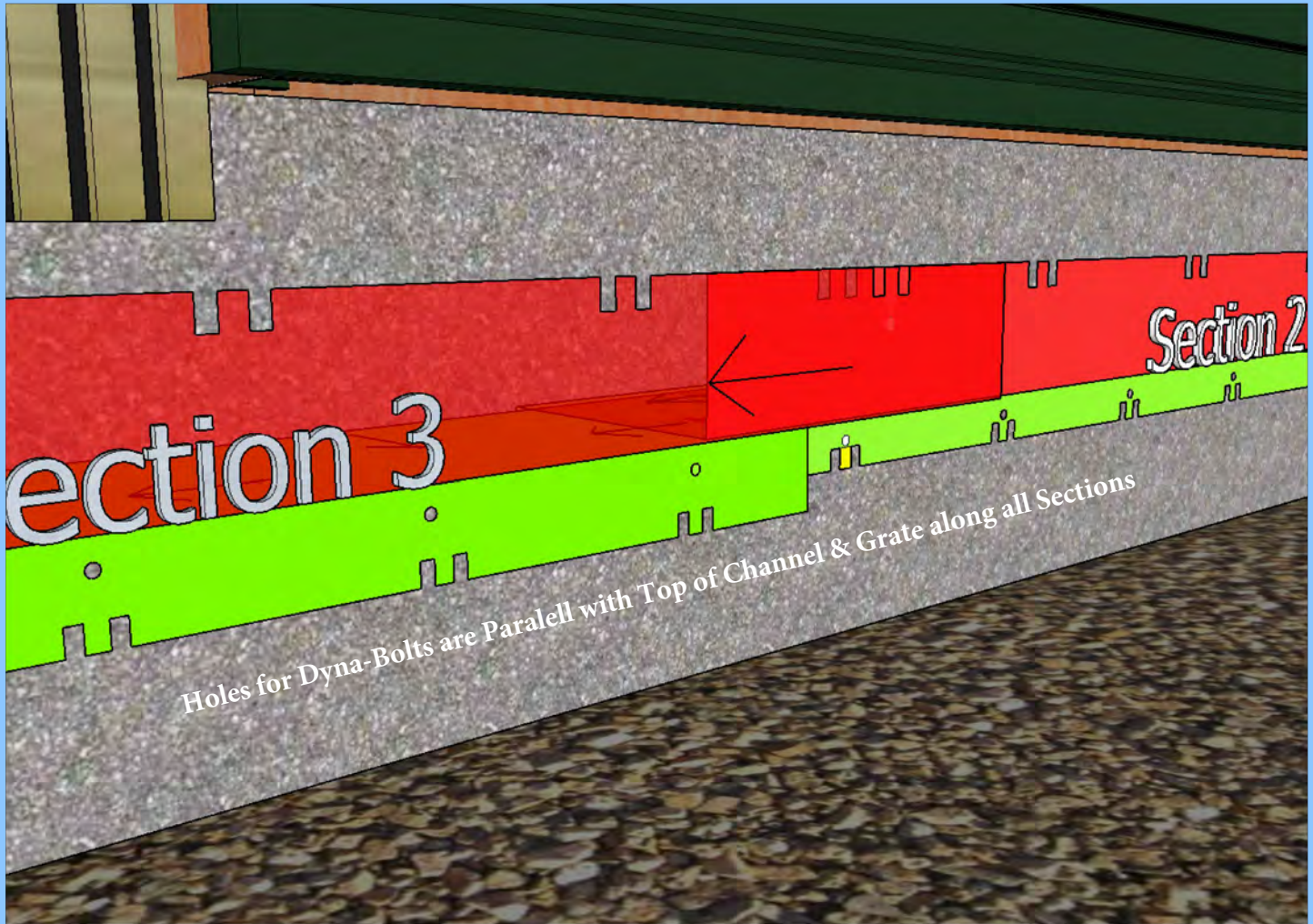


Channel Flipped to Change Direction of Flow

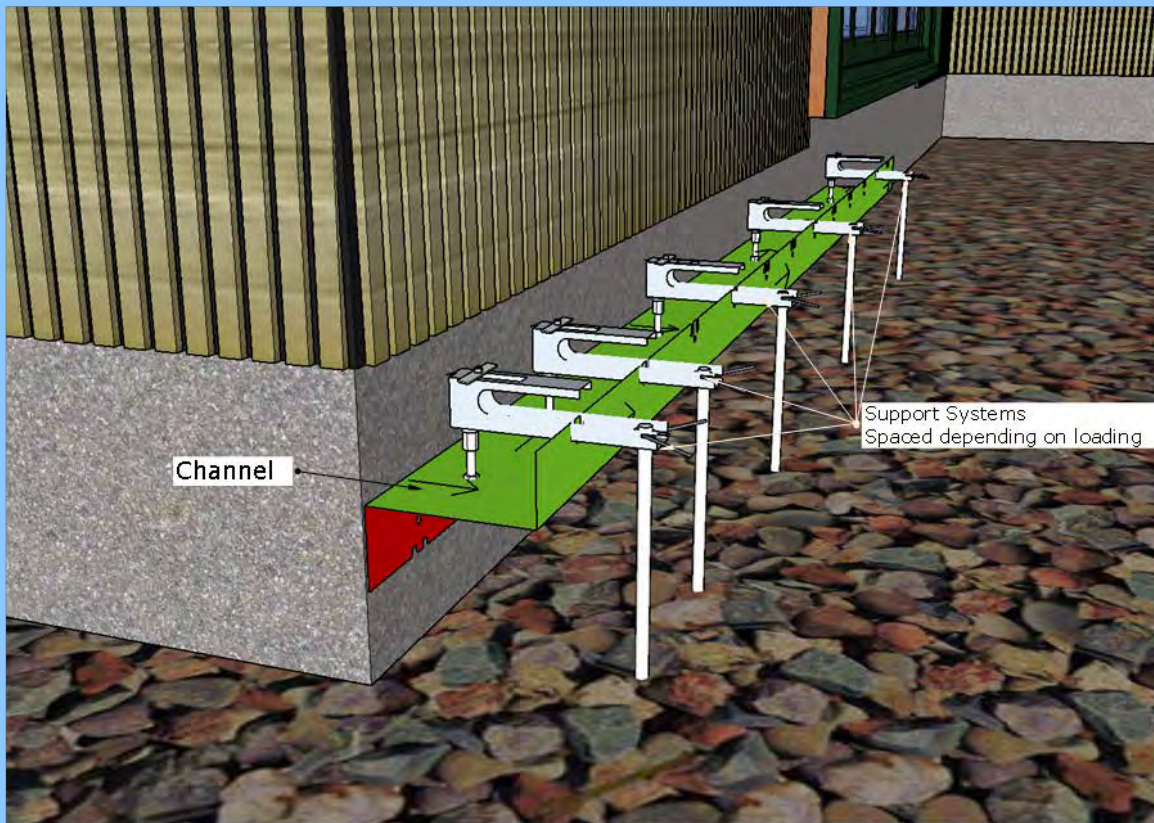
Built-in-Fall Right to Left



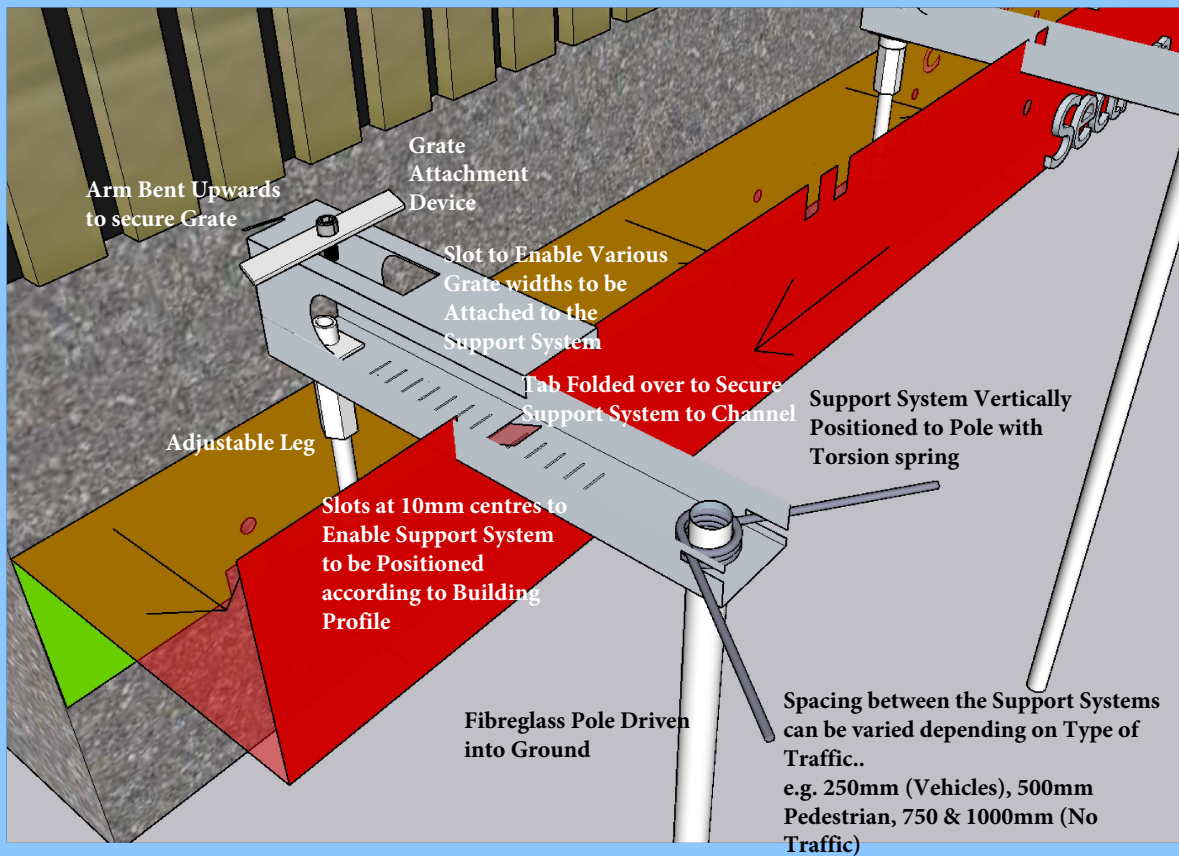
Channels can be Telescoped to Adjust Length



Support Systems are Spaced Depending on Loading



Support Systems



Silicon Sealant Applied along Channel /Slab Interface

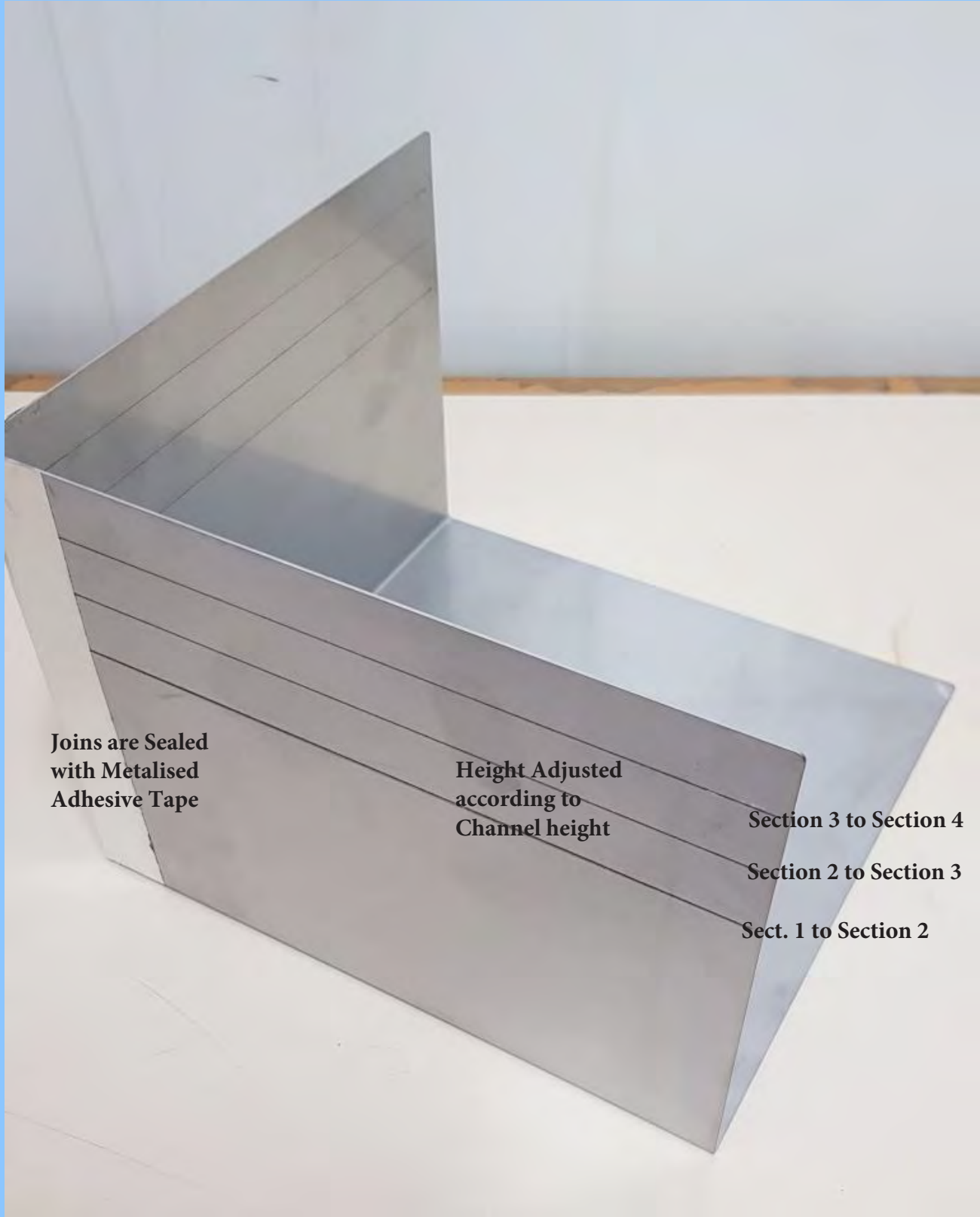


Extended Support Arm

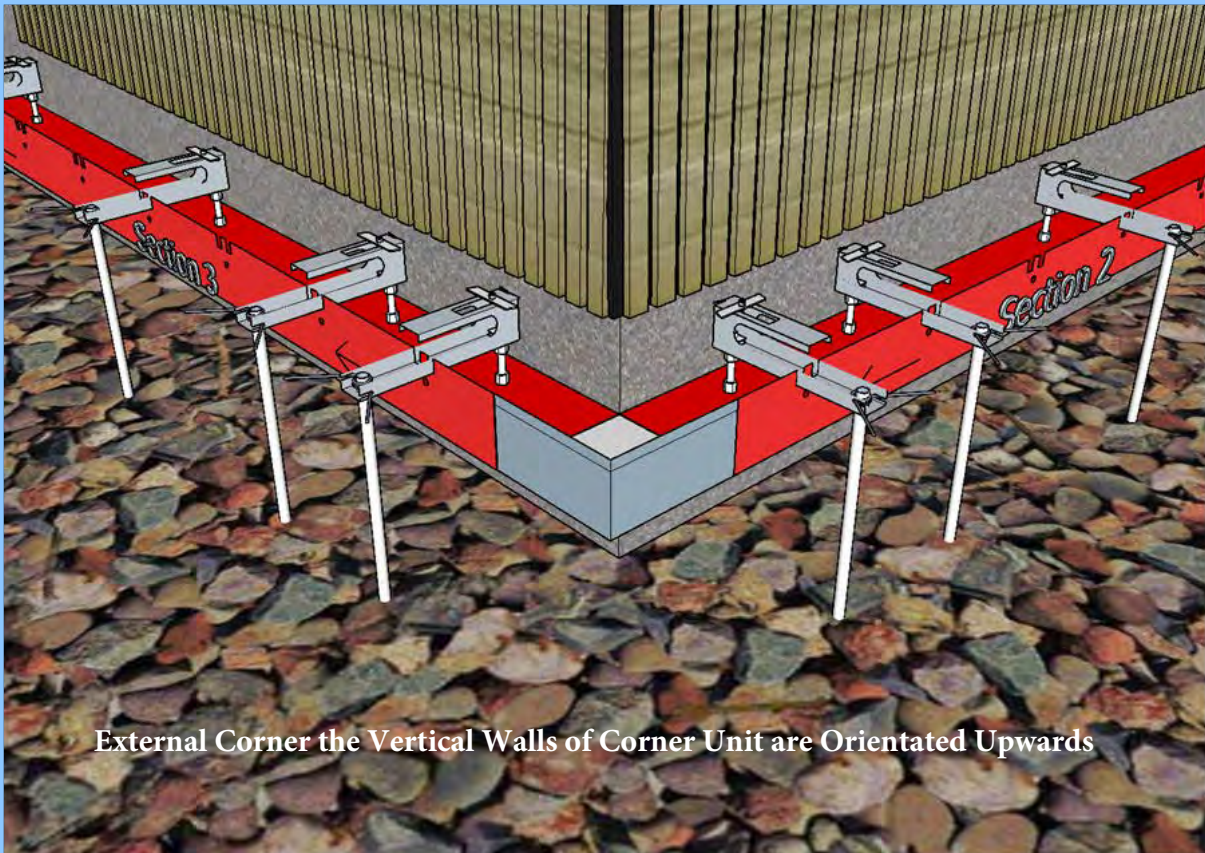
**Front of Support
System is Extended
where Building Profile
is Recessed**



Corner Unit



External Corner



Internal Corner

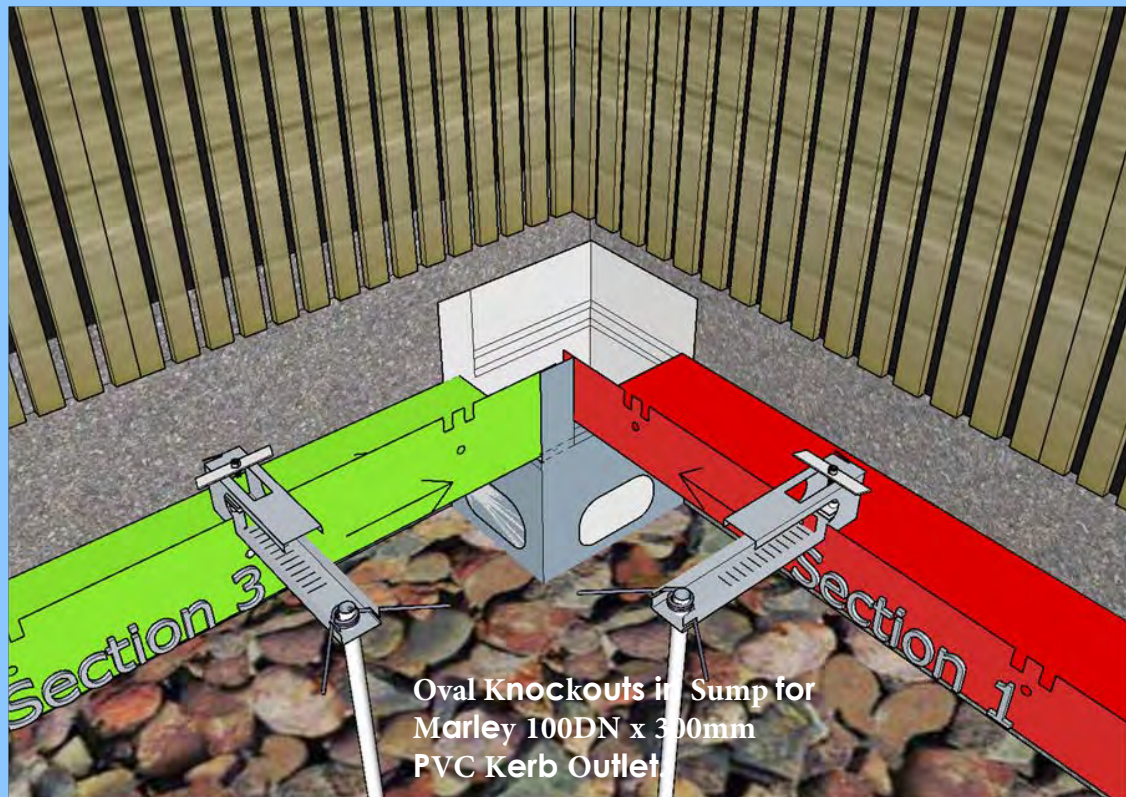


IN-LINE SUMP

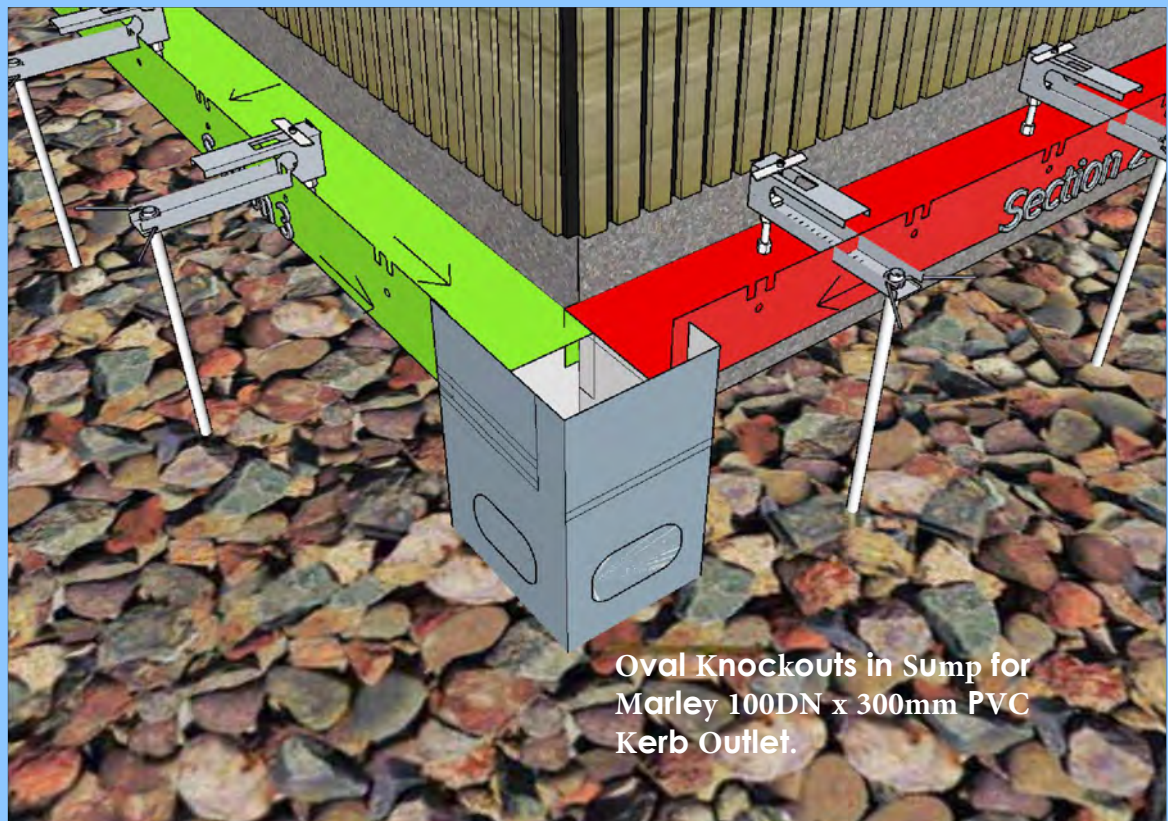
Provision for Channel
Inlet on four sides.
Sumps can be located
at corners or between
channels on a straight
section

**Knockouts for
Marley 100DN x
300mm PVC
Kerb Outlet.**

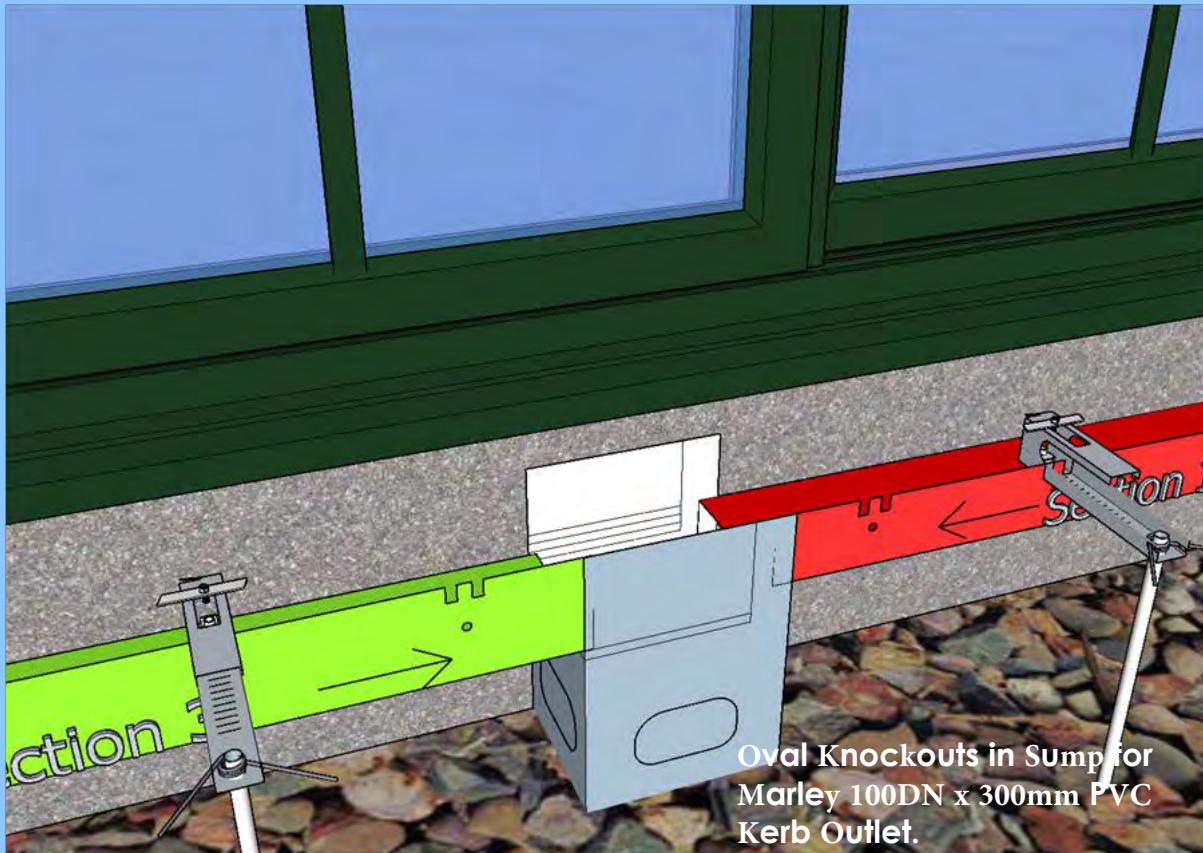
IN-LINE SUMP - INTERNAL CORNER



IN-LINE SUMP - EXTERNAL CORNER



IN-LINE SUMP Along a straight Section



Side Outlet

Each channel & Sump has "knockouts" where a Marley Kerb outlet can be attached.

Marley 100DN x 300mm White PVC Kerb Outlet.

These are available from Bunnings SKU 00857609

Copy link for details:
https://www.bunnings.co.nz/marley-100dn-x-300mm-white-pvc-kerb-outlet_p00857609



In-Line Sump with Marley Kerb Outlet

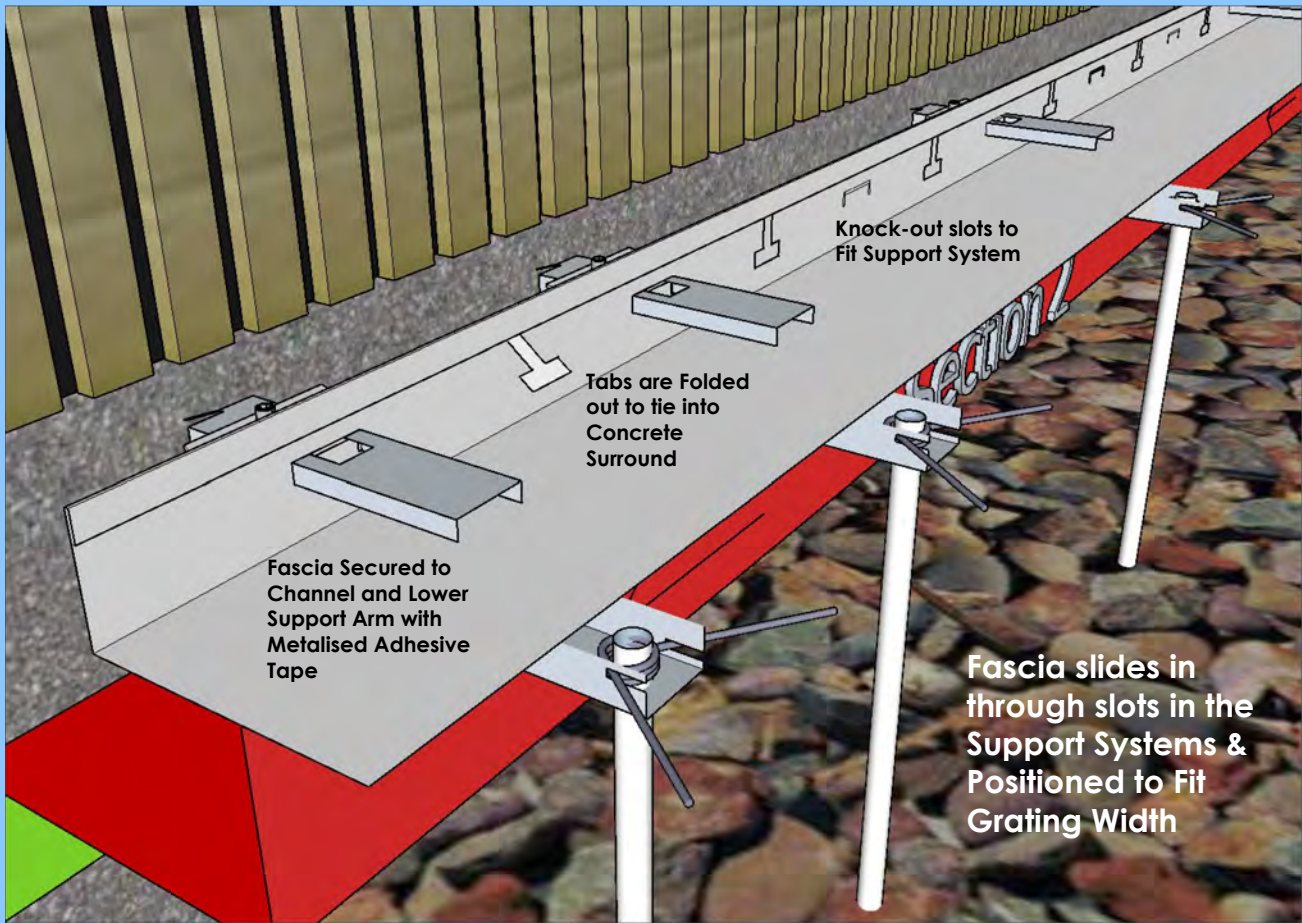


End Cap

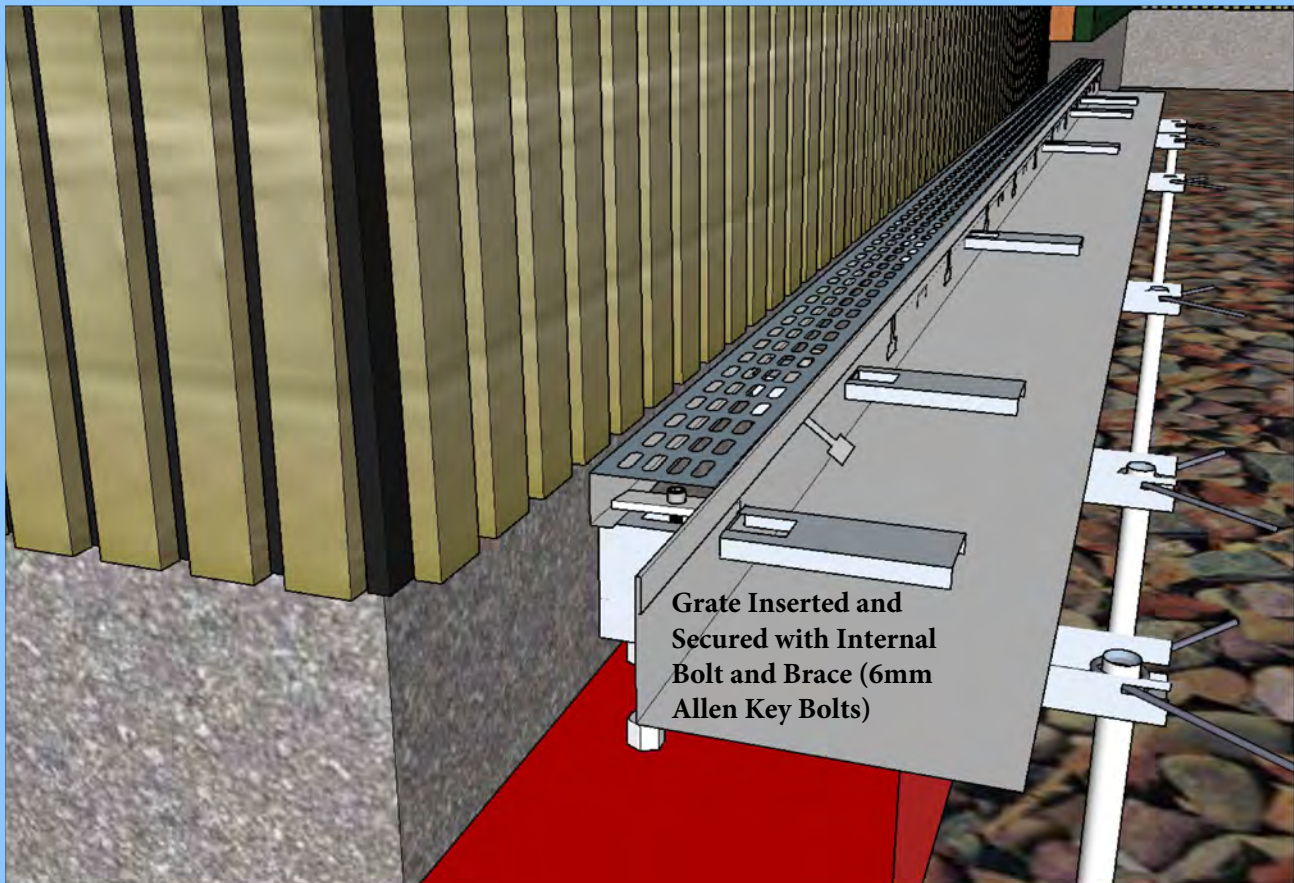


End Cap Secured with Metalised Tape

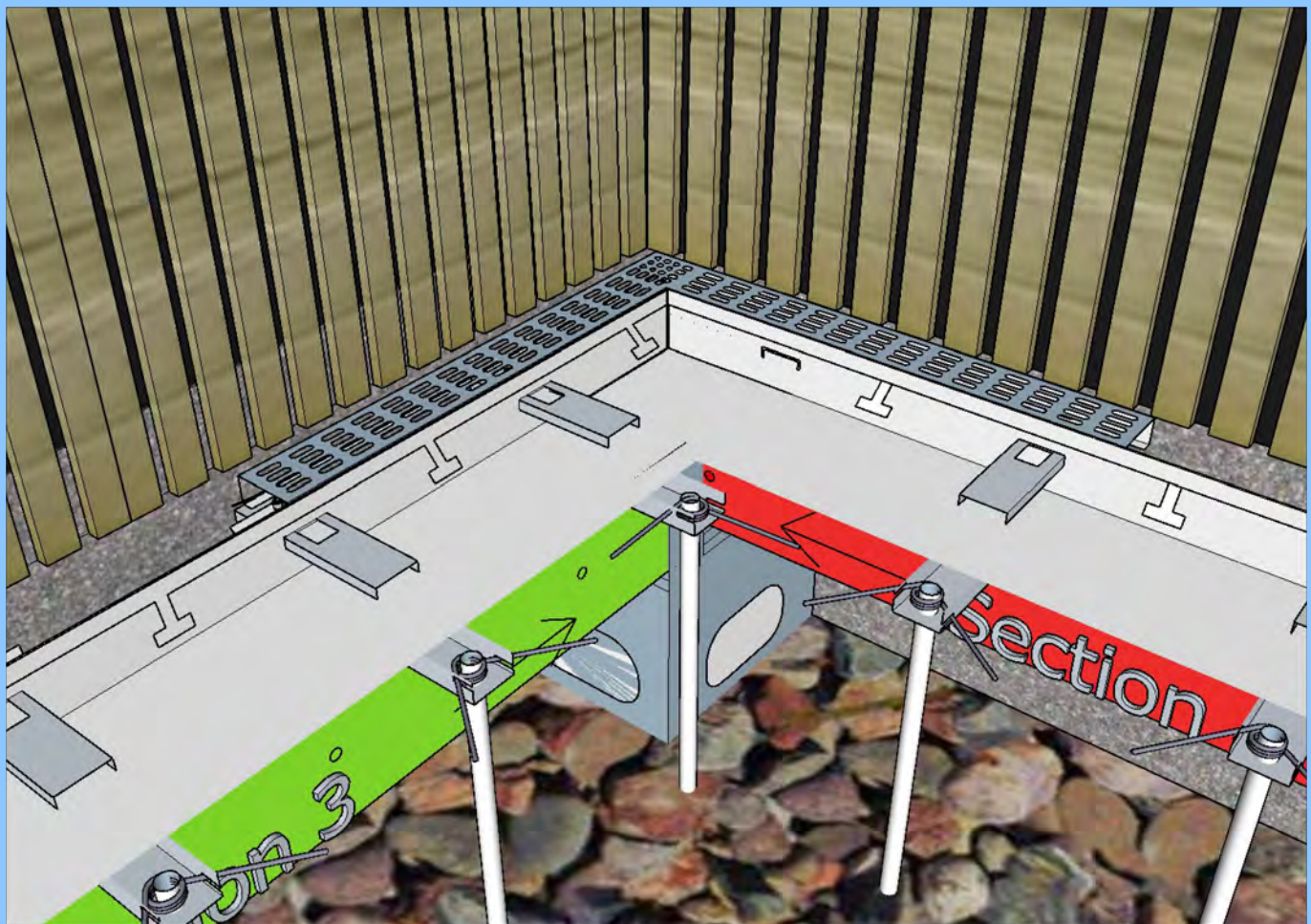
FASCIA



Grates



Grate Corners -
Widths: 45mm, 55mm, 65mm, 75mm, 85mm
Length: 500 X 500 OD



Pavers



316 Stainless Wedge-Wire Grating



Wedge-Wire Grate Corner



Fibre Reinforced Polymer (FRP) Grating High Strength, Non Slip Surface

Widths: 120mm, 160mm,

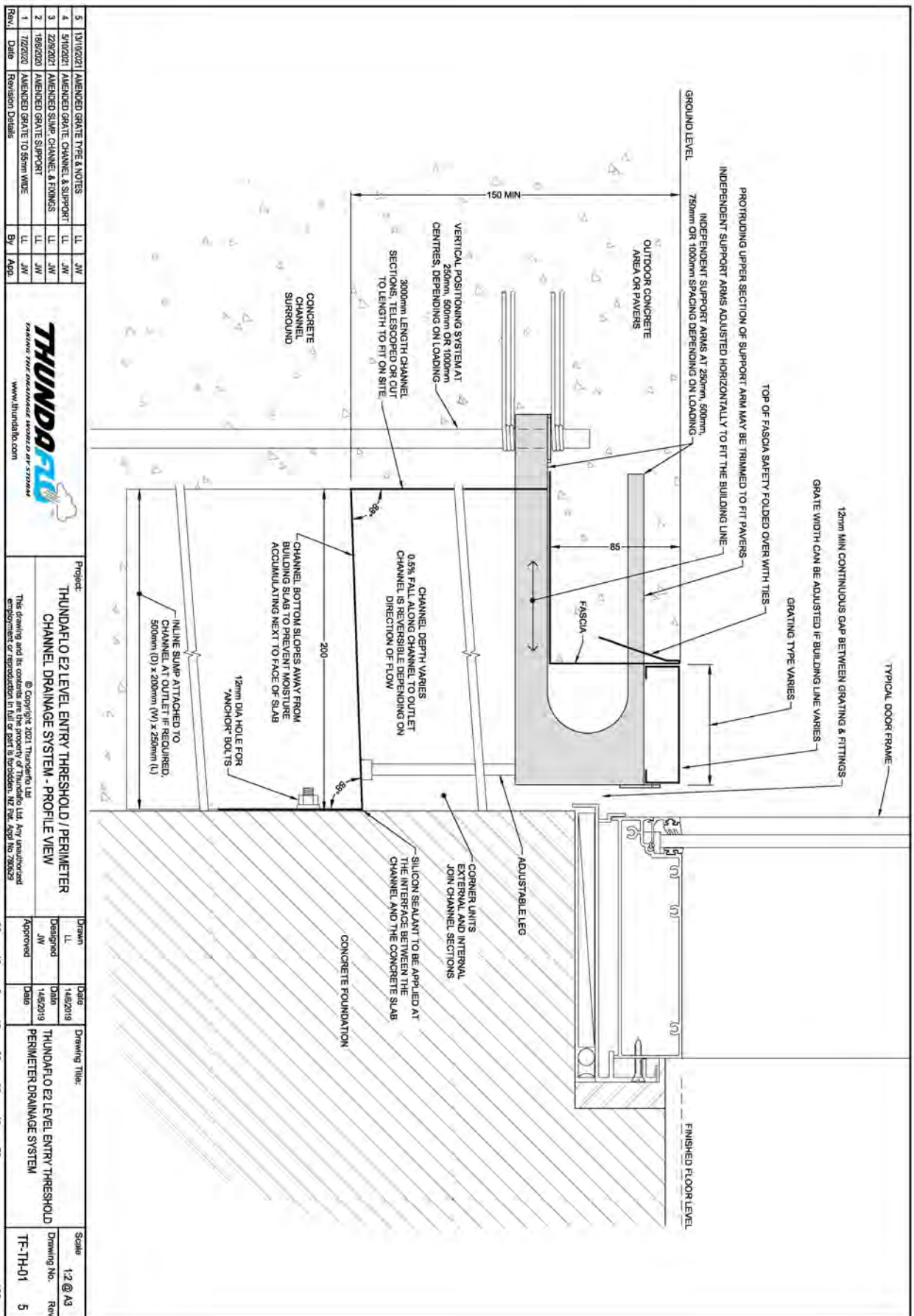


FRP Grating Fasteners



DRAWING - PROFILE VIEW

Standard Non-Extended Support



Rev.	Date	Revision Details	By	App.
5	13/10/2021	AMENDED GRATE TYPE & NOTES	LL	JW
4	5/10/2021	AMENDED GRATE, CHANNEL & SUPPORT	LL	JW
3	22/9/2021	AMENDED SLUMP CHANNEL & FININGS	LL	JW
2	19/9/2020	AMENDED GRATE SUPPORT	LL	JW
1	1/2/2020	AMENDED GRATE 1050mm WIDE	LL	JW



Project:
THUNDAFLO E2 LEVEL ENTRY THRESHOLD / PERIMETER CHANNEL DRAINAGE SYSTEM - PROFILE VIEW

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Drawn	Date	Design	Date	Approved	Date	Scale
LL	14/6/2018	JW	14/6/2019			1:2 @ A3

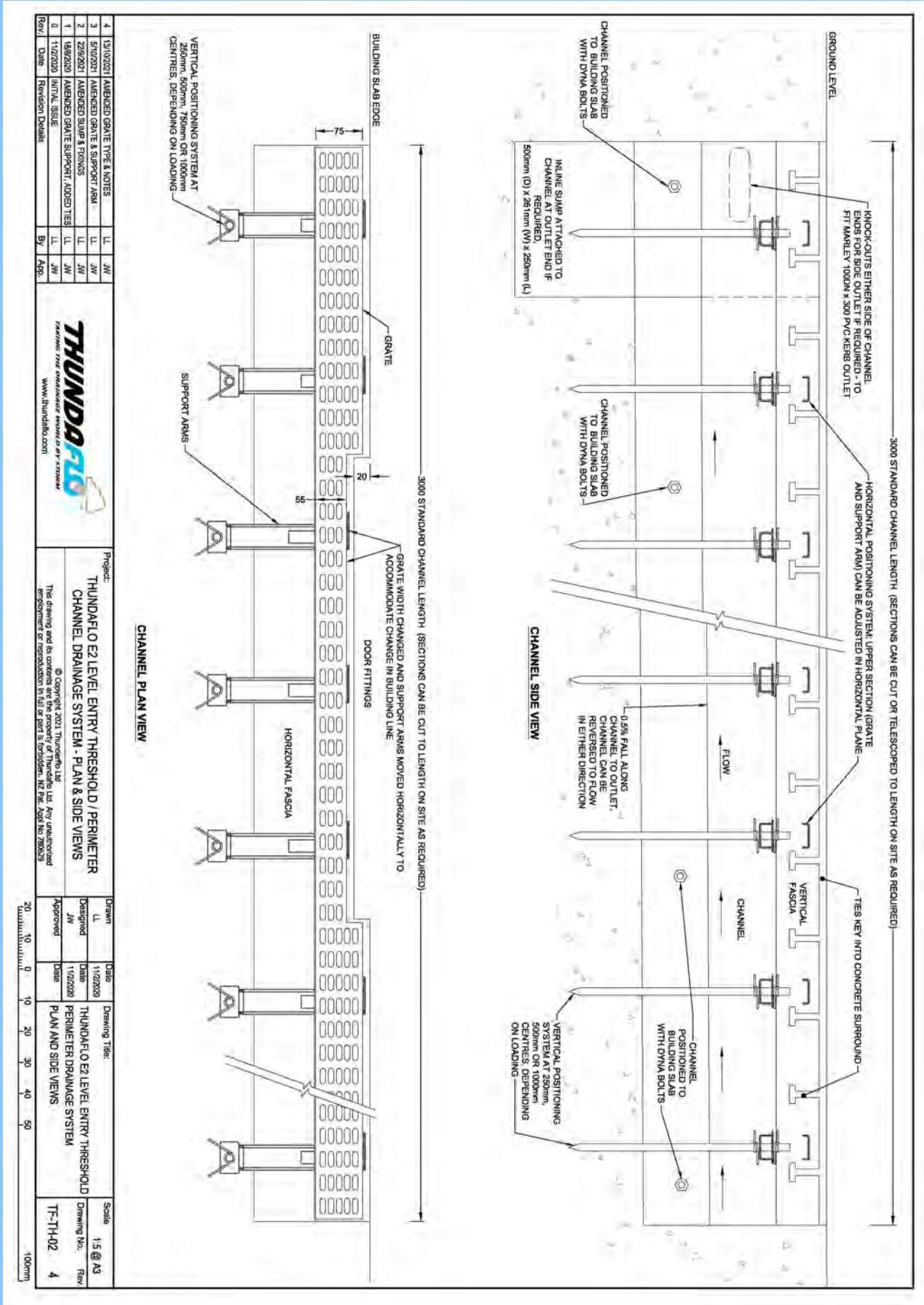
Drawing Title:
THUNDAFLO E2 LEVEL ENTRY THRESHOLD PERIMETER DRAINAGE SYSTEM

Drawing No.: TF-TH-01
Rev.: 5



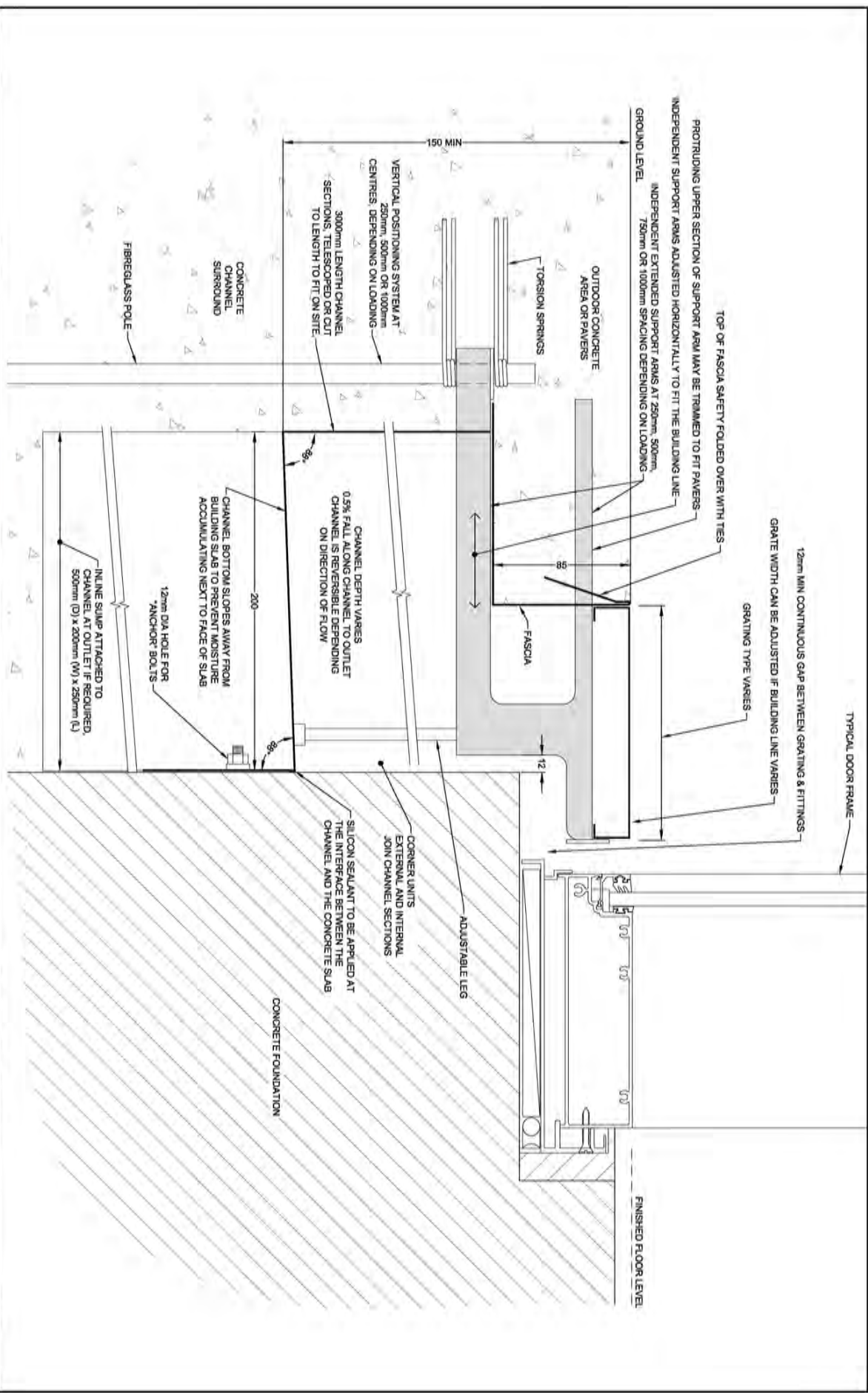
DRAWING - SIDE AND PLAN VIEWS

Non-Extended Support Arm



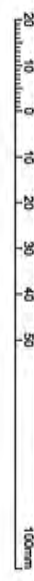
DRAWING - PROFILE VIEW

Extended Support Arm

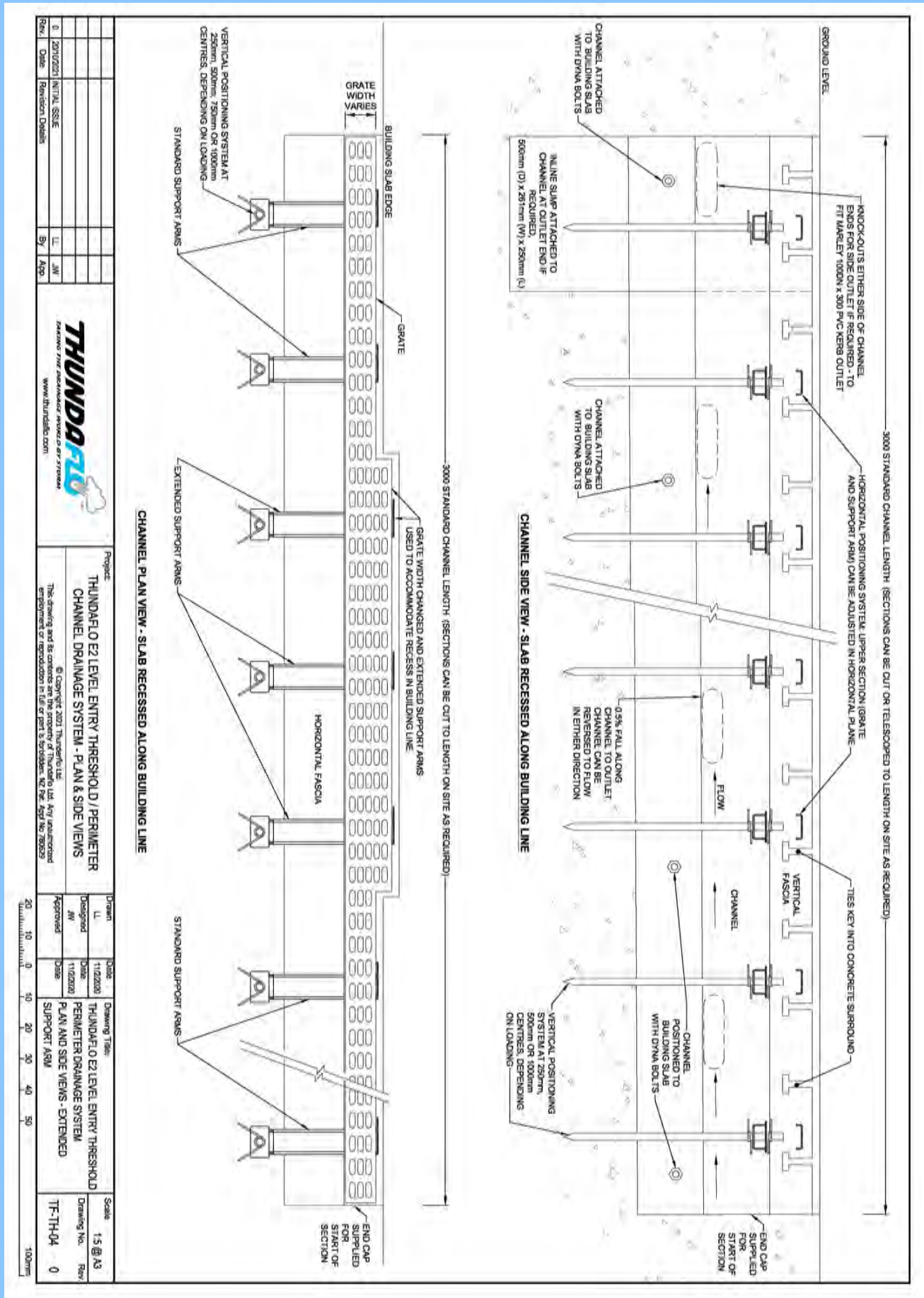


Rev/	Date	Revision Details	By	App.
0	20/02/21	INITIAL ISSUE	LL	JW

<p>THUNDAFLO MAKING THE PROVEN HEAVY DUTY SURFACE DRAINAGE SYSTEM</p>		<p>Project:</p> <p>THUNDAFLO E2 LEVEL ENTRY THRESHOLD / PERIMETER CHANNEL DRAINAGE SYSTEM - PROFILE VIEW</p> <p>© Copyright 2021 Thundaflo Ltd This drawing and its contents are the property of Thundaflo Ltd. Any unauthorised employment or reproduction in full or part is forbidden. NZ Pat. Appl. No. 780629</p>	
Drawn	Date	Drawing Title	Scale
LL	14/6/2018	THUNDAFLO E2 LEVEL ENTRY THRESHOLD PERIMETER DRAINAGE SYSTEM	1:2 @ A3
Designed	Date		Drawing No.
JW	14/6/2018		TF-TH-03
Approved	Date		Rev
		EXTENDED SUPPORT ARM	0



DRAWING - SIDE AND PLAN VIEWS Extended Support Arm



Rev	Date	Revision Details	By	App
0	20/10/2021	INITIAL ISSUE	LL	JW



Project:
THUNDAFLO E2 LEVEL ENTRY THRESHOLD / PERIMETER CHANNEL DRAINAGE SYSTEM - PLAN & SIDE VIEWS

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Drawn	Date	Design Title	Scale
LL	11/10/2020	THUNDAFLO E2 LEVEL ENTRY THRESHOLD PERIMETER DRAINAGE SYSTEM PLAN AND SIDE VIEWS - EXTENDED SUPPORT ARM	1:5 @ A3
Designed	Date		Rev
JW	11/10/2020		0
Approved	Date		Rev

100mm

COMPONENTS SUPPLIED

- Channel Sections: 3000mm Lengths, Sections 1,2,3,4 as required
- Fascia: 3000mm Lengths
- Support Systems:
 - Support Arm
 - Adjustable Leg & Nuts
 - Fibre-glass Pole & Torsion Spring
 - Grate Attachment Device
- Grating:
 - 3000mm Lengths (Laser Cut & Wedge-wire)
 - 3600mm Lengths (FRP)
- End Caps
- Dyna-bolts: Three per 3000mm channel Section
- In-Line Sumps: If Required
- Corners (Channel & Grating): If Required
- Metalised Adhesive Tape: 20 L/m Roll per 18 L/m Channel