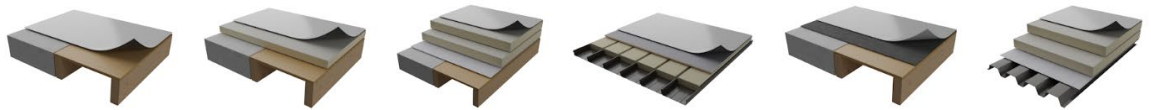




North America's Largest Roofing Manufacturer



GAF EverGuard 1.5mm TPO installed



GAF EverGuard TPO Design Details

6th December 2019

New Zealand GAF Distributor



Product Description

EverGuard and EverGuard Extreme TPO Roof and Deck Membrane Systems are single ply, polyester fabric reinforced, thermoplastic polyolefin (TPO) fully bonded waterproofing sheet membranes for roofs and decks.

Technical Installation Details:

101 - PARAPET FLASHING	401 - T-JOINT AND JOINT END
102 - PARAPET FLASHING ALTERNATIVE	407 - POST / BALUSTRADE BASE
103 - DRIP EDGE ALTERNATIVE	408 - DRESSED BATTEN DETAIL
104 - DRIP EDGE DETAIL	
105 - BARGE FLASHING	501 - PIPE PENETRATION
106 - BARGE FLASHING ALTERNATIVE	502 - SPLIT PIPE BOOT
107 - PARAPET TERMINATION BAR	503 - HIGH TEMPERATURE STACK
108 - BARGE TERMINATION BAR	504 - POURABLE SEALANT POCKET
109 - BARGE WRAP DETAIL	505 - SQUARE TUBE WRAP
110 - WELDABLE TPO COATED DRIP EDGE	506 - DRAIN DROPPER
	507 - COATED METAL SCRUPPER
201 - CHASE FLASHING ALTERNATIVE	508 - OVER FLOW PARAPET DRAIN
202 - CHASE FLASHING	509 - PREMOLDED PIPE BOOT
203 - WALL TRANSITION	510 - ULTRAGUARD ROOF VENT
204 - SKYLIGHT FLASHING	
	601 - FLOOR JACK PEDESTAL - DECK
301 - METAL ROOF TRANSITION	602 - FLOOR JACK PEDESTAL - TERMINATION
302 - SHINGLE ROOF TRANSITION	603 - FLOOR JACK PEDESTAL - PAVING TILES
303 - METAL ROOF TO TPO	604 - FLOOR JACK PEDESTAL - DOOR SILL
304 - SHINGLE ROOF TO TPO	605 - FLOATING TIMBER RAFTER - THRESHOLD
305 - TPO - ALUMINIUM JOINERY	606 - FLOATING TIMBER RAFTER - WALL

Scope of use

EverGuard and EverGuard Extreme TPO Roof and Deck Membrane Systems are for use as roof and deck waterproofing membranes on buildings within the following scope:

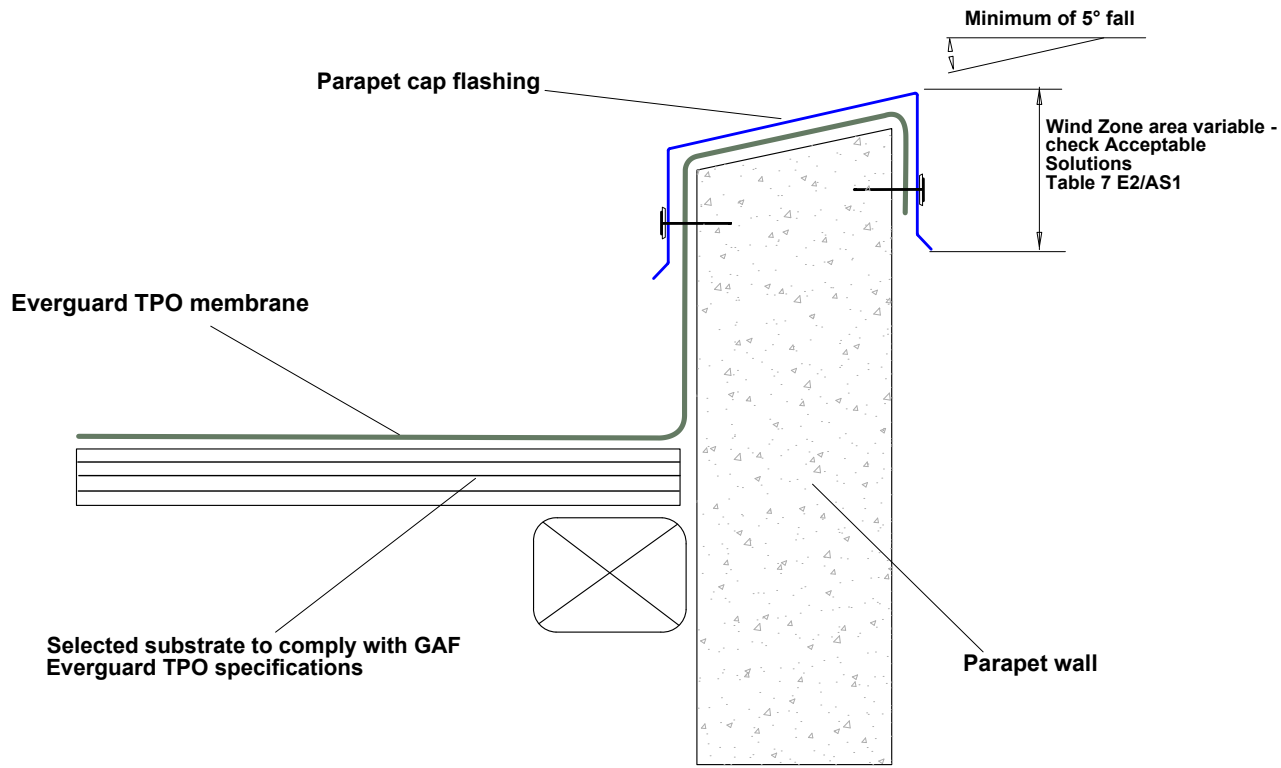
- the scope limitations of NZBC Acceptable Solution E2/AS1, Paragraph 1.1; or,
- the scope limitations of NZBC Acceptable Solution E2/AS1, Paragraph 1.1 with respect to building height and maximum floor plan area when subject to specific structural design; and, with building structures designed and constructed to meet the requirements of the NZBC; and, with substrates of plywood, strandsarking or suspended concrete slabs; and,
- with minimum falls for roofs of 1:30 and decks of 1:40, suspended concrete 1:60, gutters require 1:100 fall,
- situated in NZS 3604 Wind Zones, up to, and including Extra High.

EverGuard and EverGuard Extreme TPO Roof and Deck Membrane Systems are also for use as roof and deck waterproofing membranes on buildings within the following scope:

- subject to specific structural and weather tightness design; and,
- with substrates of plywood, CLT, or suspended concrete slab; and,
- situated in specific design wind pressures up to a maximum design differential ultimate limit state (ULS) of 6 kPa.

The design and construction of the substrate and movement and control joints is specific to each building, and therefore is the responsibility of the building designer and building contractor.

TPO to be laid with adhesive to substrate and parapet prior to installation of parapet cap.



PARAPET FLASHING

Scale: N.T.S.

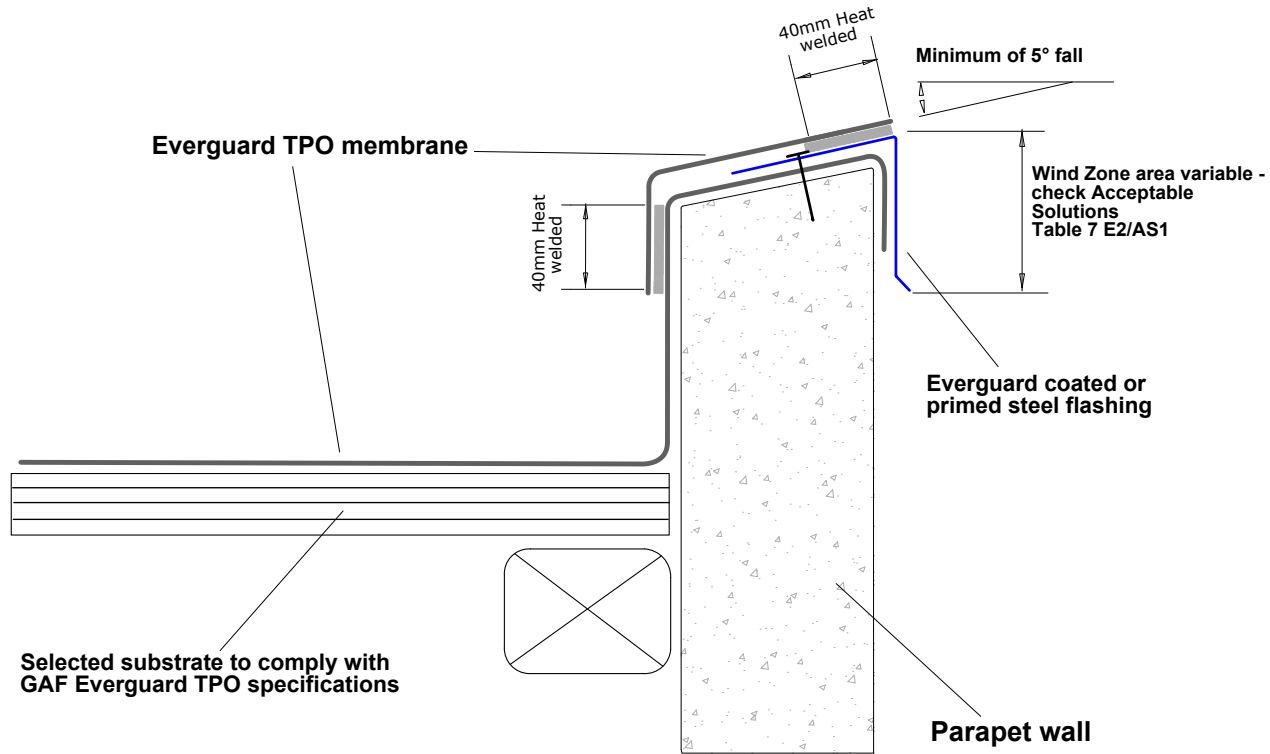


Notes: This detail is in accordance with the BRANZ Appraisal and CodeMark certification. Please contact us for any required customization. © Ultraguard LTD

Technical Support and Advice:
Email: technical@gaf.nz
Call: 0800 42 33 55
Web: www.gafroofing.co.nz/TPO
GAF New Zealand Distributor

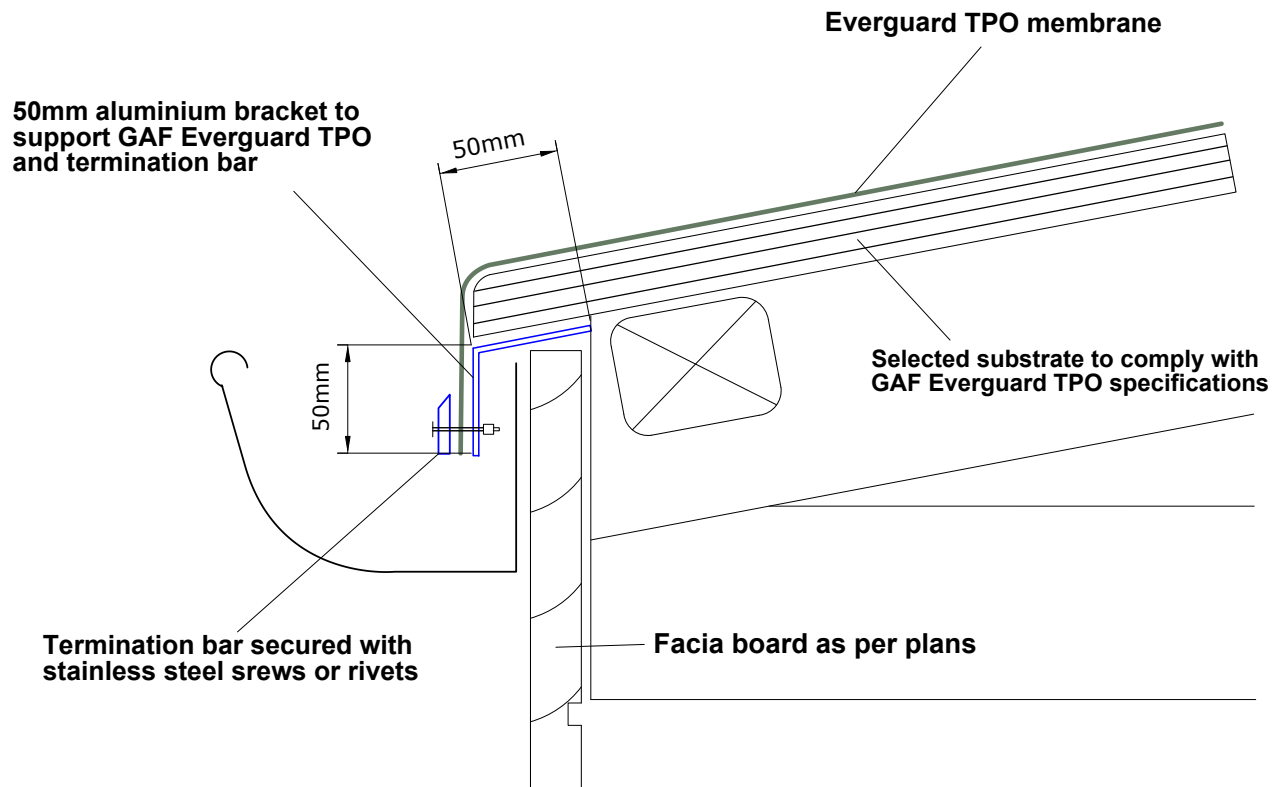
Drawing Title: GAF EverGuard TPO Roofing		
REF: T-101	Date: 06/12/2019	Version: A

GAF Everguard TPO to be laid with adhesive to substrate and parapet.



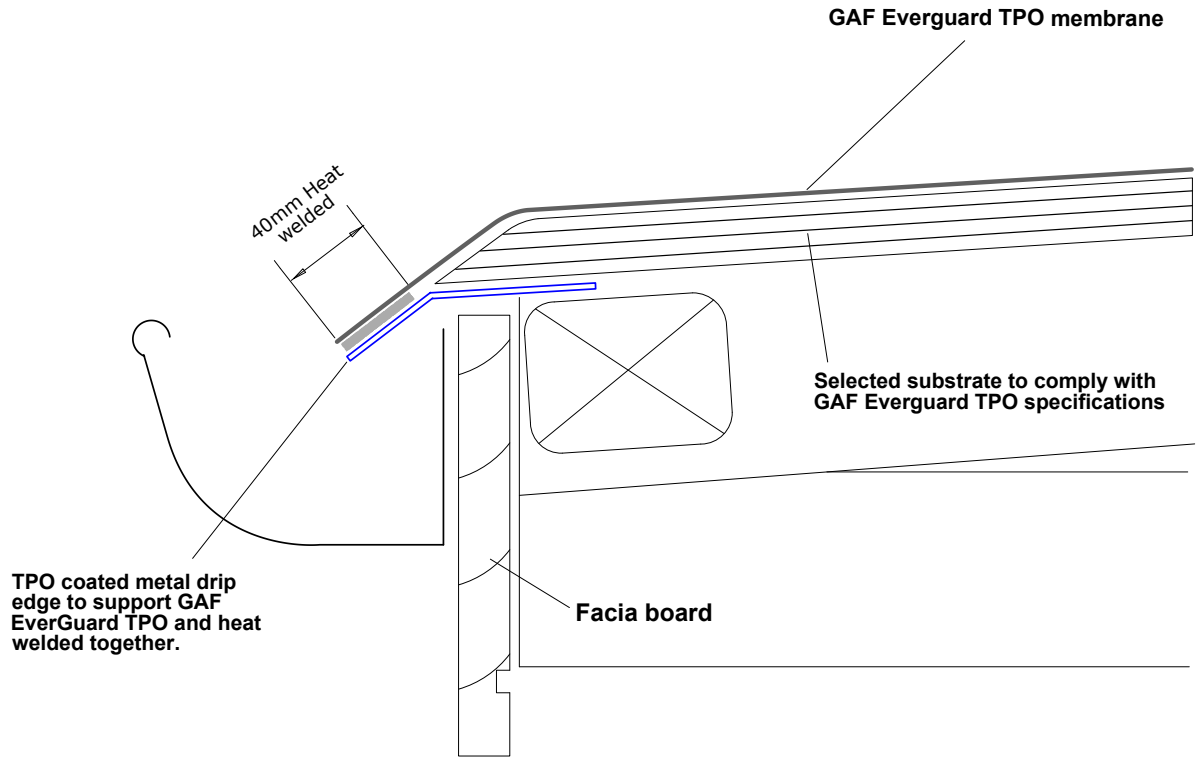
PARAPET WALL ALTERNATIVE

Scale: N.T.S.



DRIP EDGE ALTERNATIVE

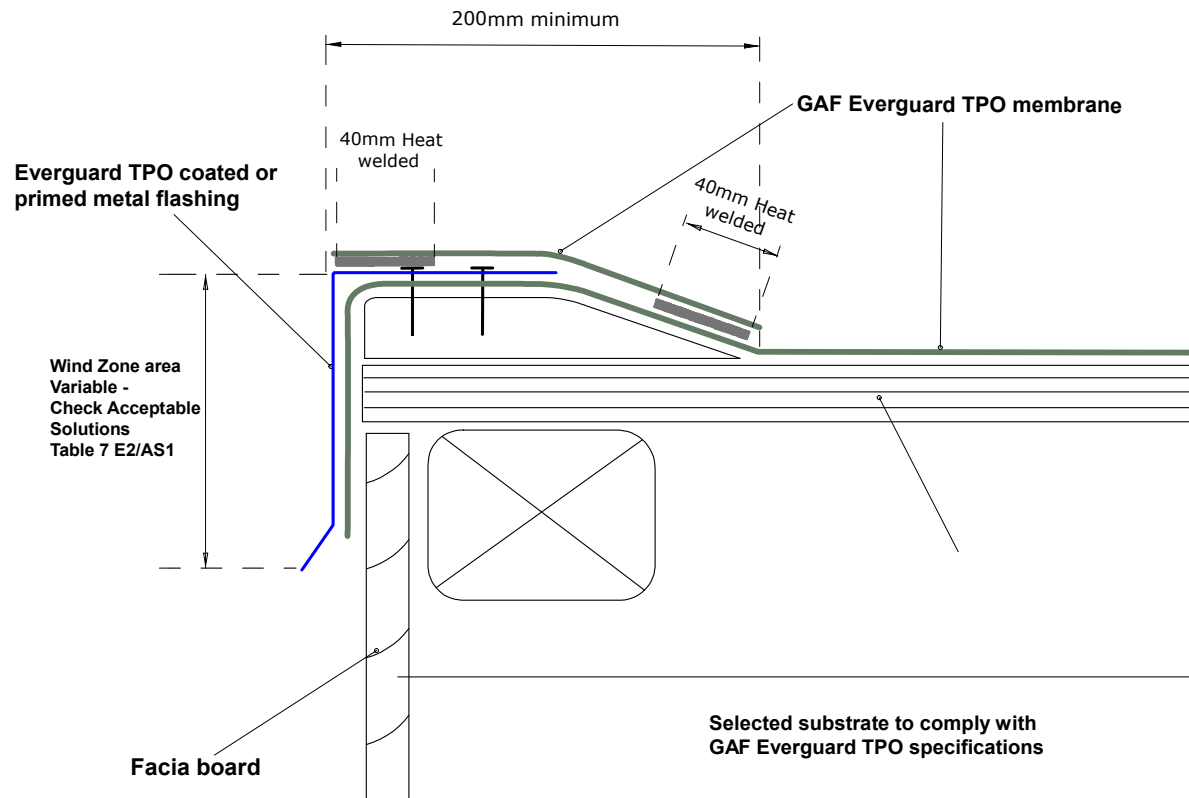
Scale: N.T.S.



DRIP EDGE SYSTEM

Scale: N.T.S.

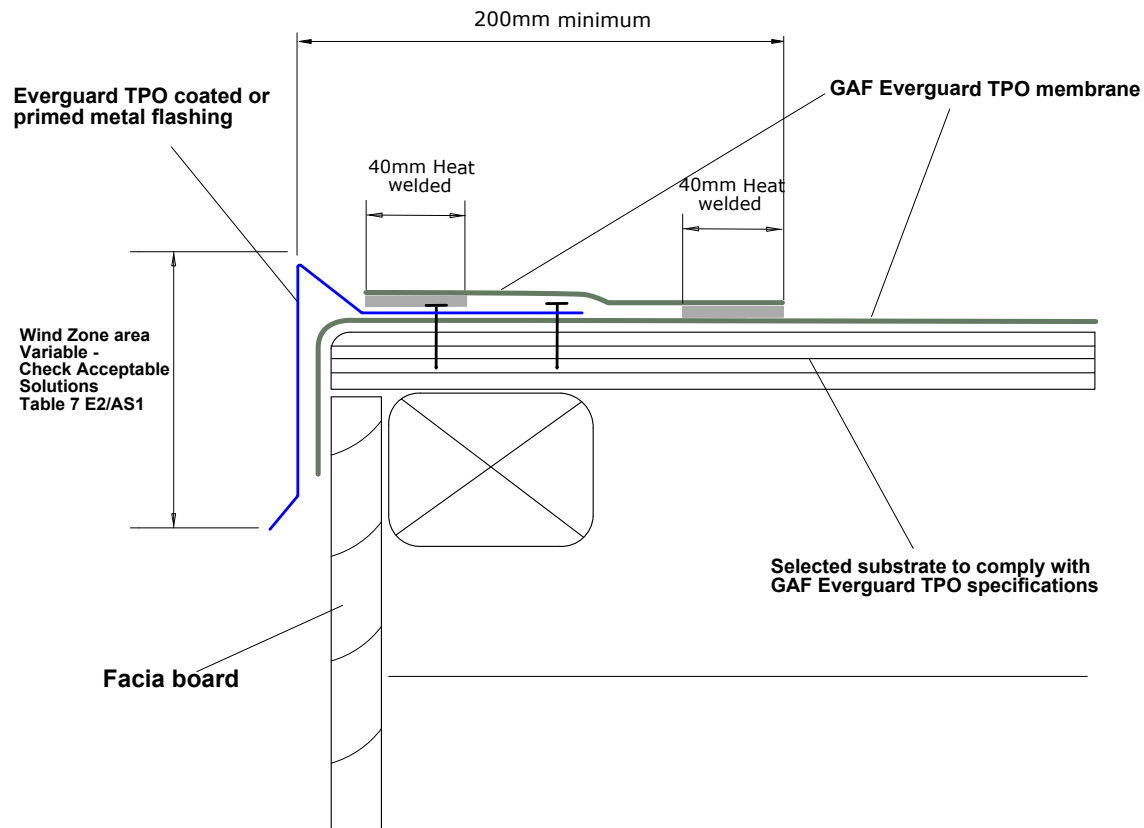
Metal flashing secured with stainless countersunk screws



BARGE FLASHING SYSTEM

Scale: N.T.S.

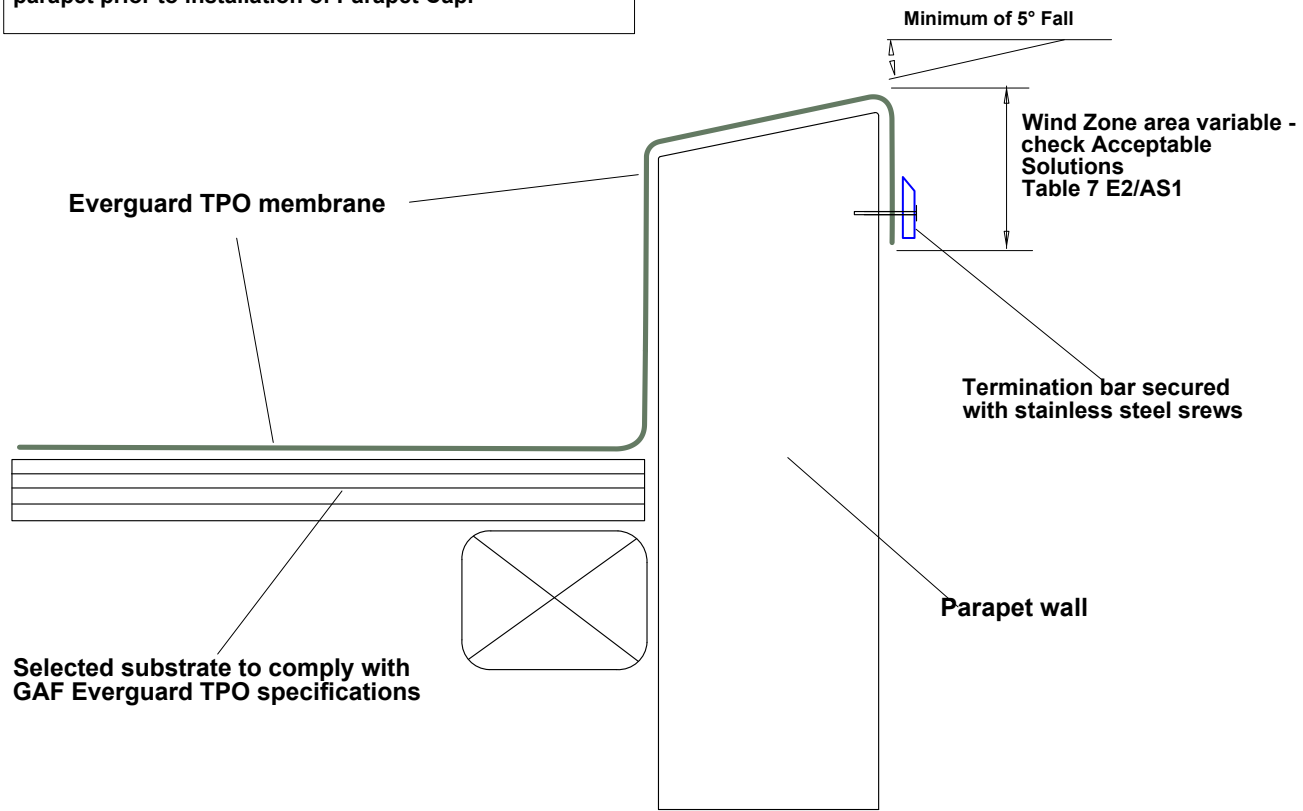
Metal flashing secured with countersunk stainless screws



BARGE FLASHING ALTERNATIVE

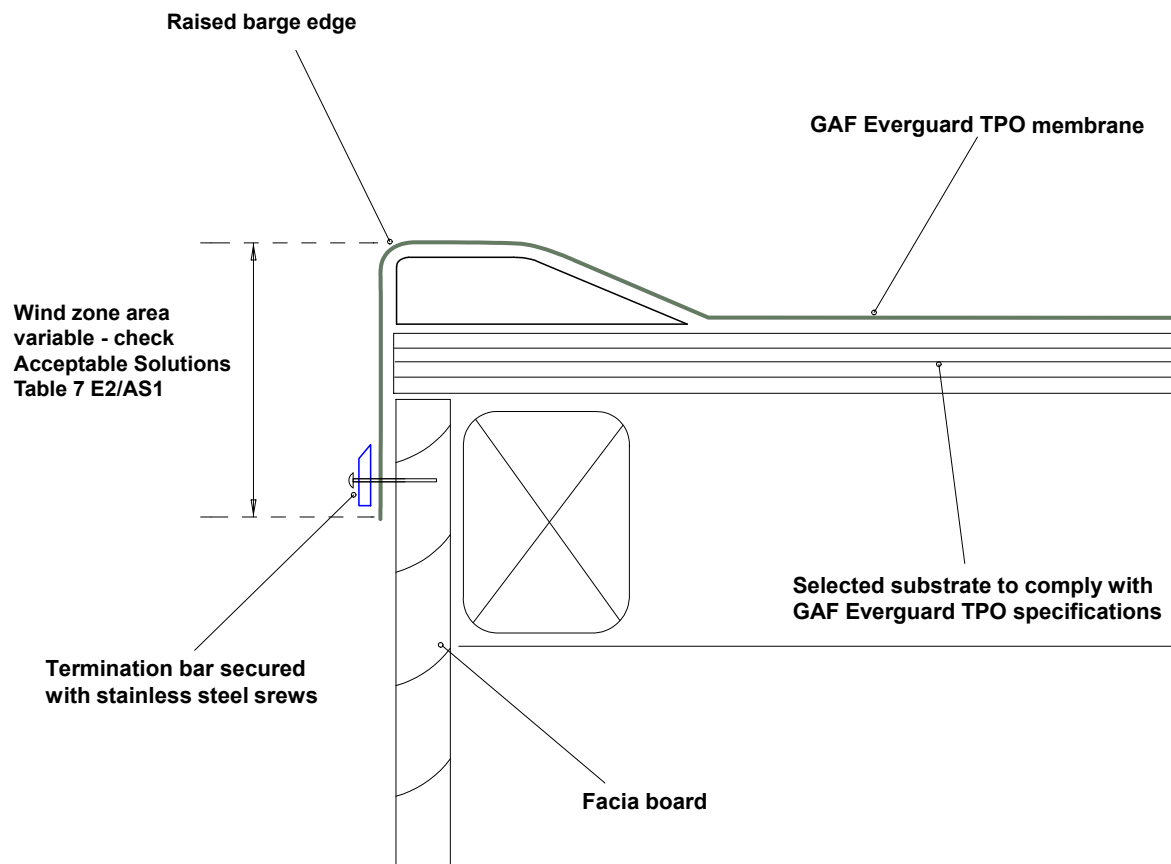
Scale: N.T.S.

TPO to be laid with adhesive to substrate and parapet prior to installation of Parapet Cap.



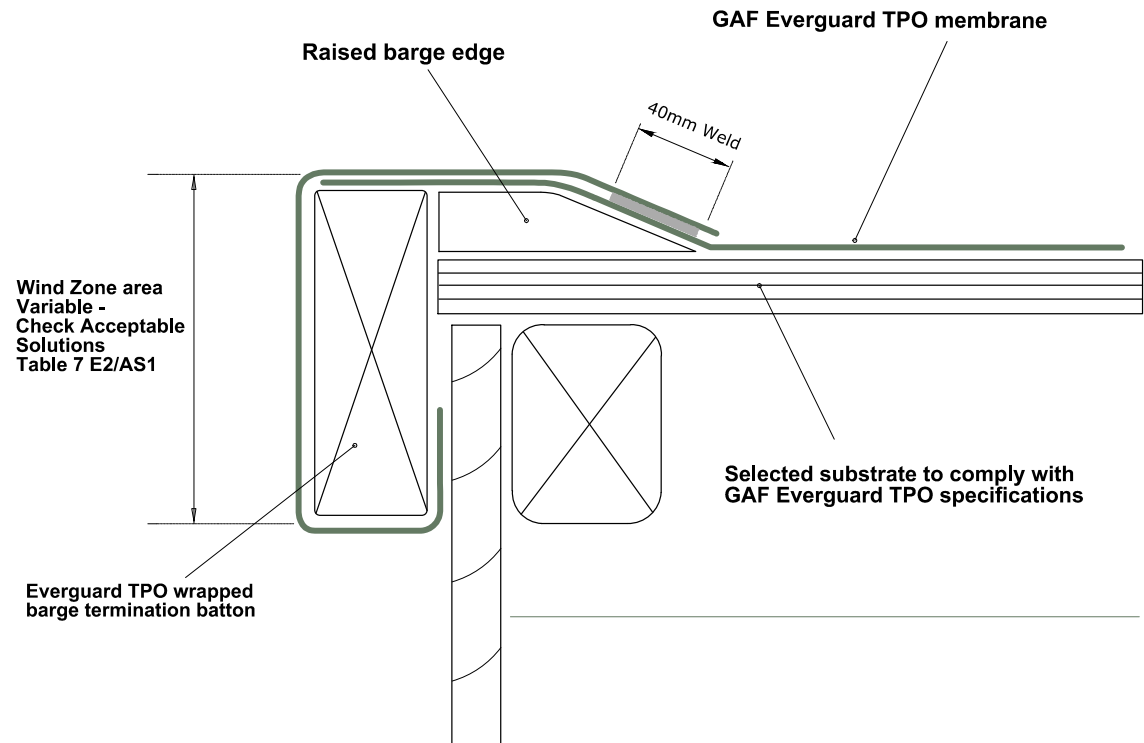
PARAPET TERMINATION BAR

Scale: N.T.S.



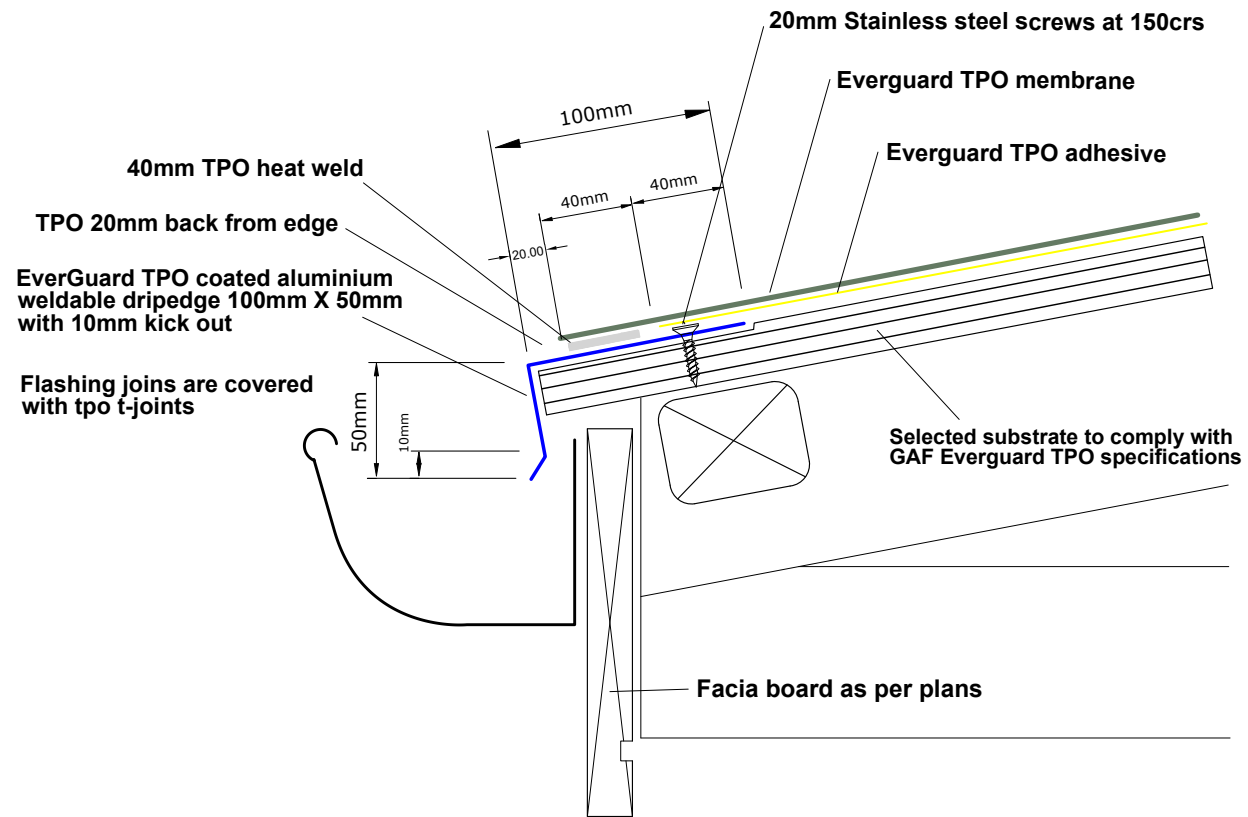
BARGE TERMINATION BAR

Scale: N.T.S.



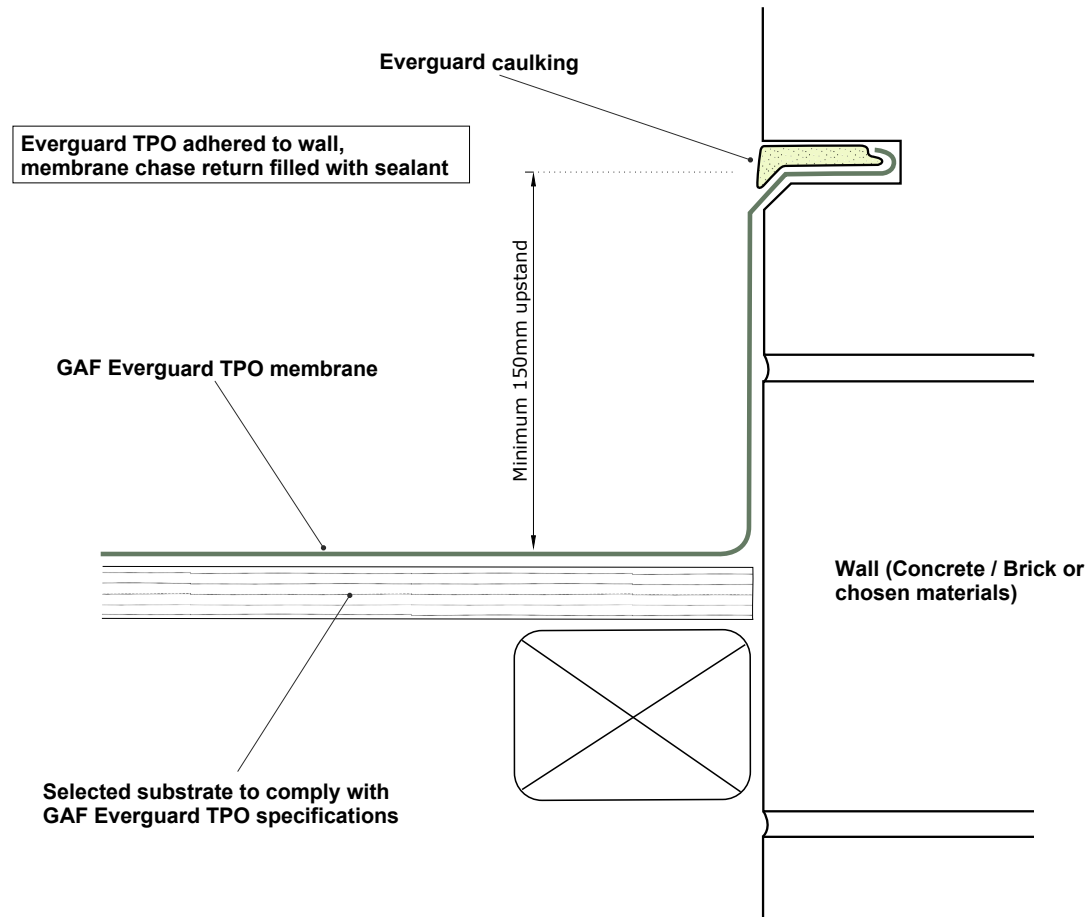
BARGE WRAP DETAIL

Scale: N.T.S.



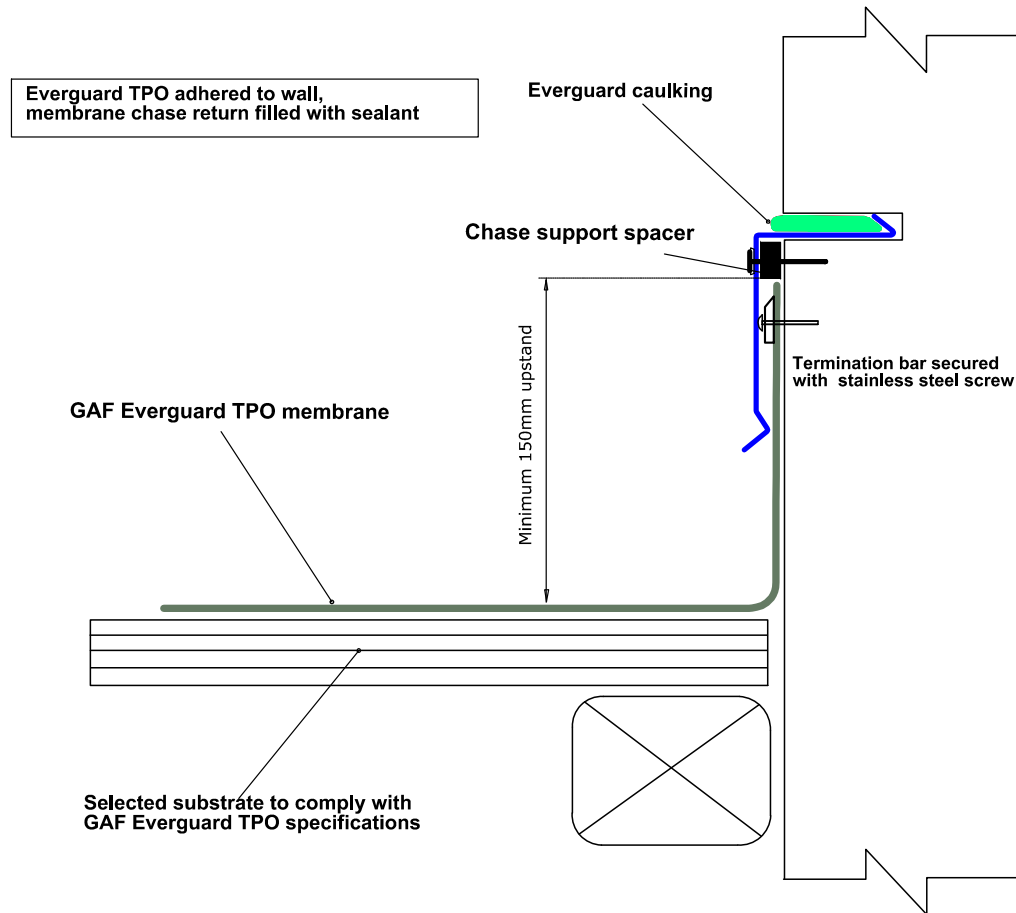
WELDABLE TPO COATED DRIP EDGE FLASHING

Scale: N.T.S.



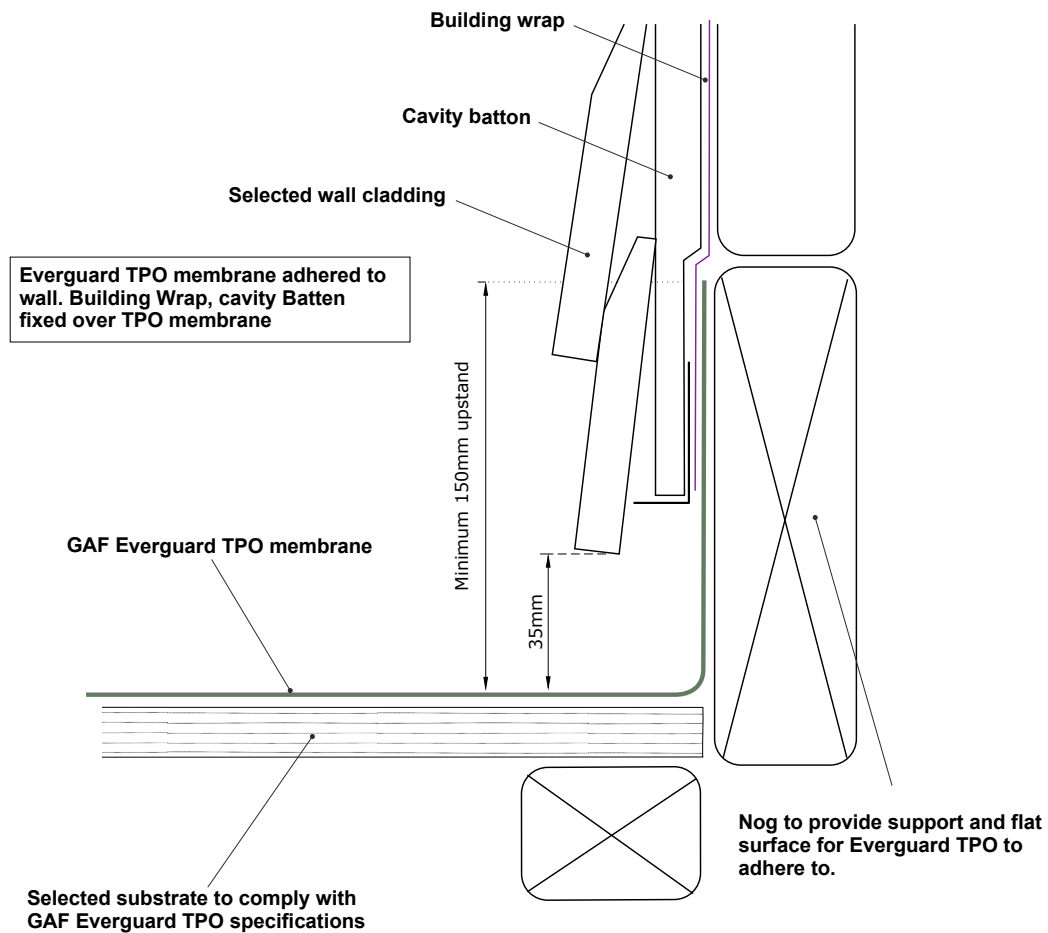
CHASE FLASHING SYSTEM

Scale: N.T.S.



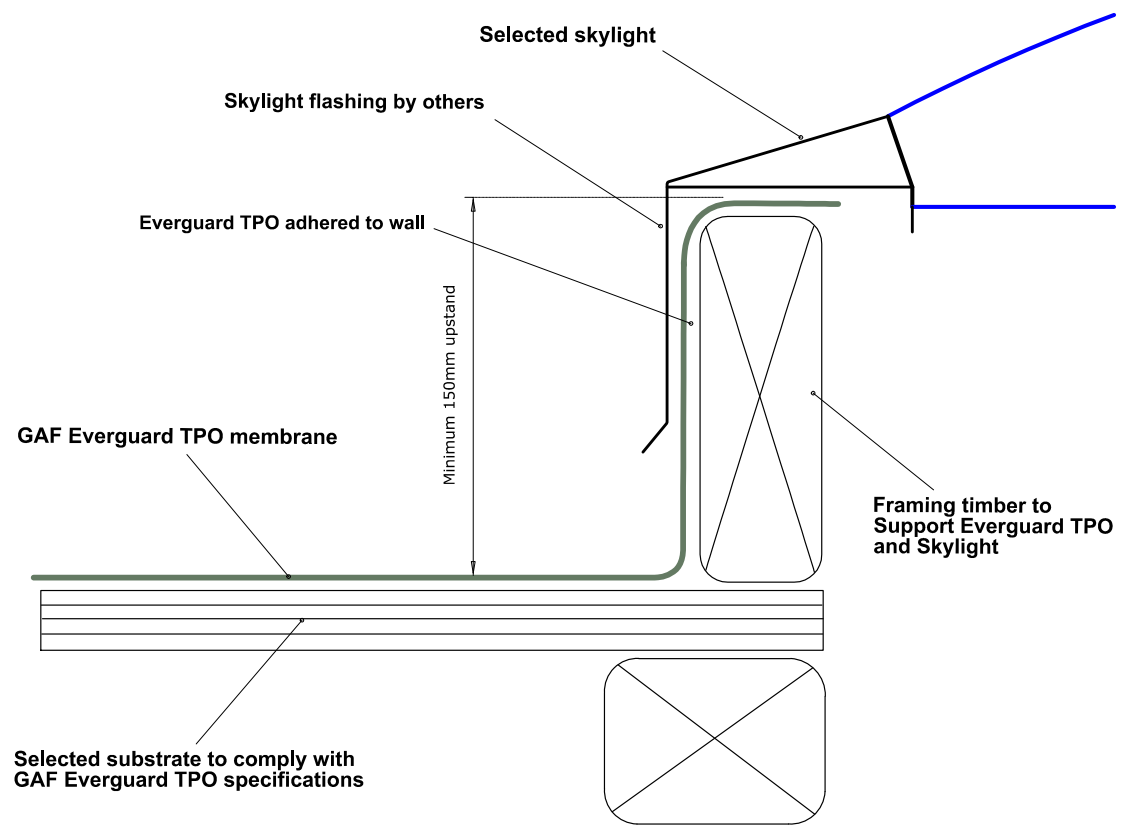
CHASE FLASHING SYSTEM ALTERNATIVE

Scale: N.T.S.



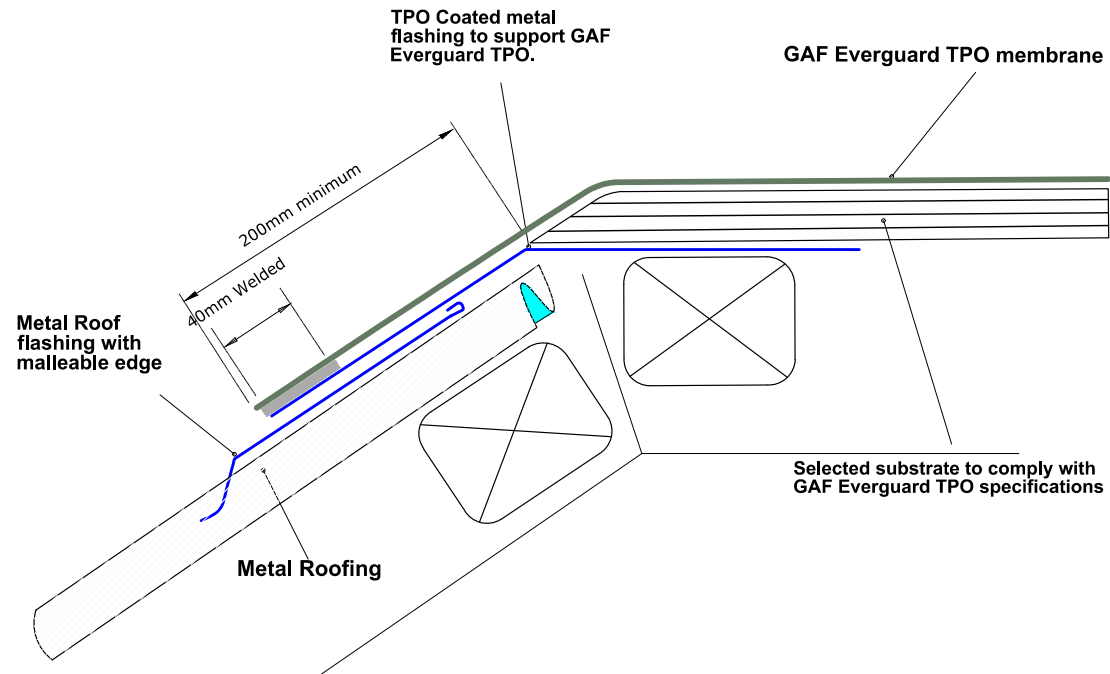
WALL TRANSITION

Scale: N.T.S.



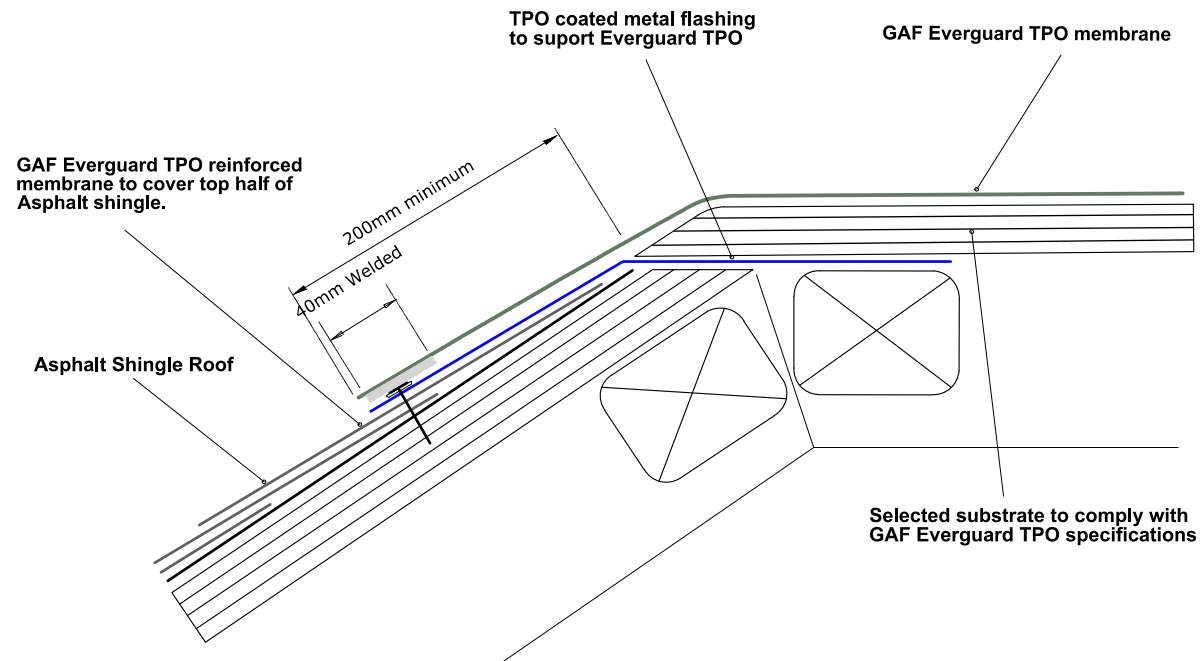
SKYLIGHT FLASHING

Scale: N.T.S.



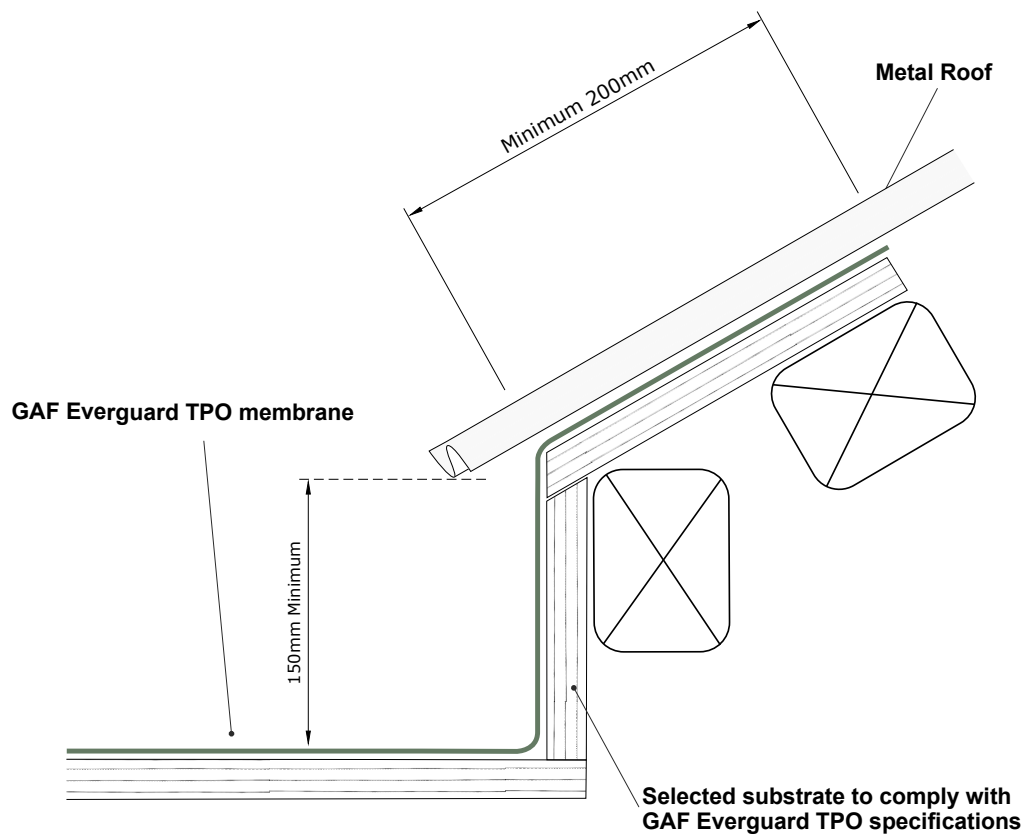
METAL ROOF TRANSITION

Scale: N.T.S.



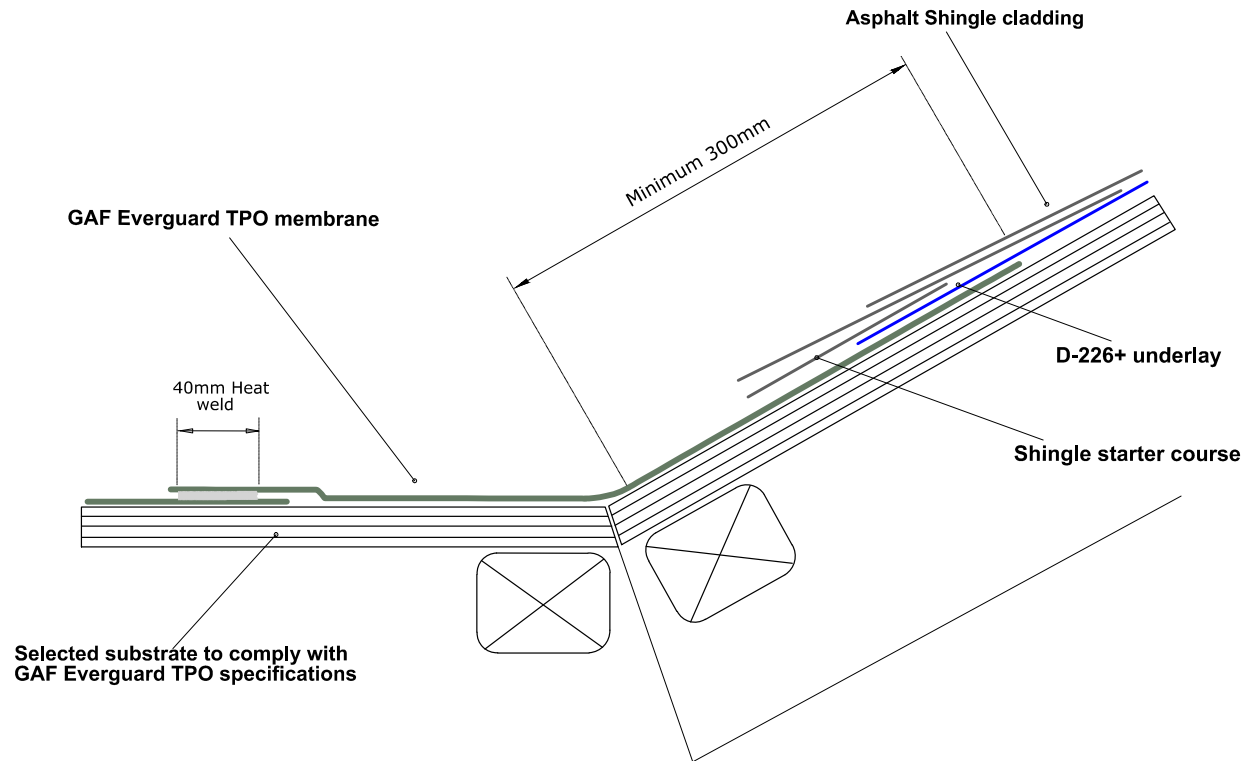
SHINGLE ROOF TRANSITION

Scale: N.T.S.



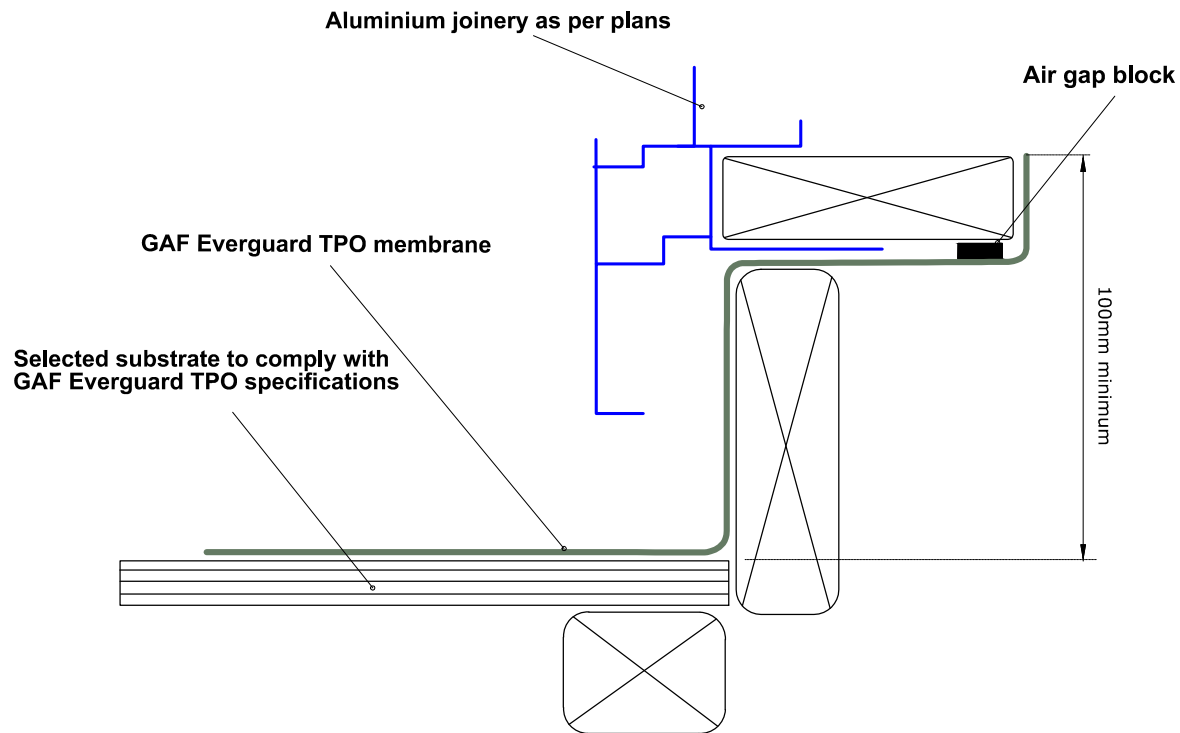
METAL ROOF TO TPO

Scale: N.T.S.



SHINGLE ROOF TO TPO

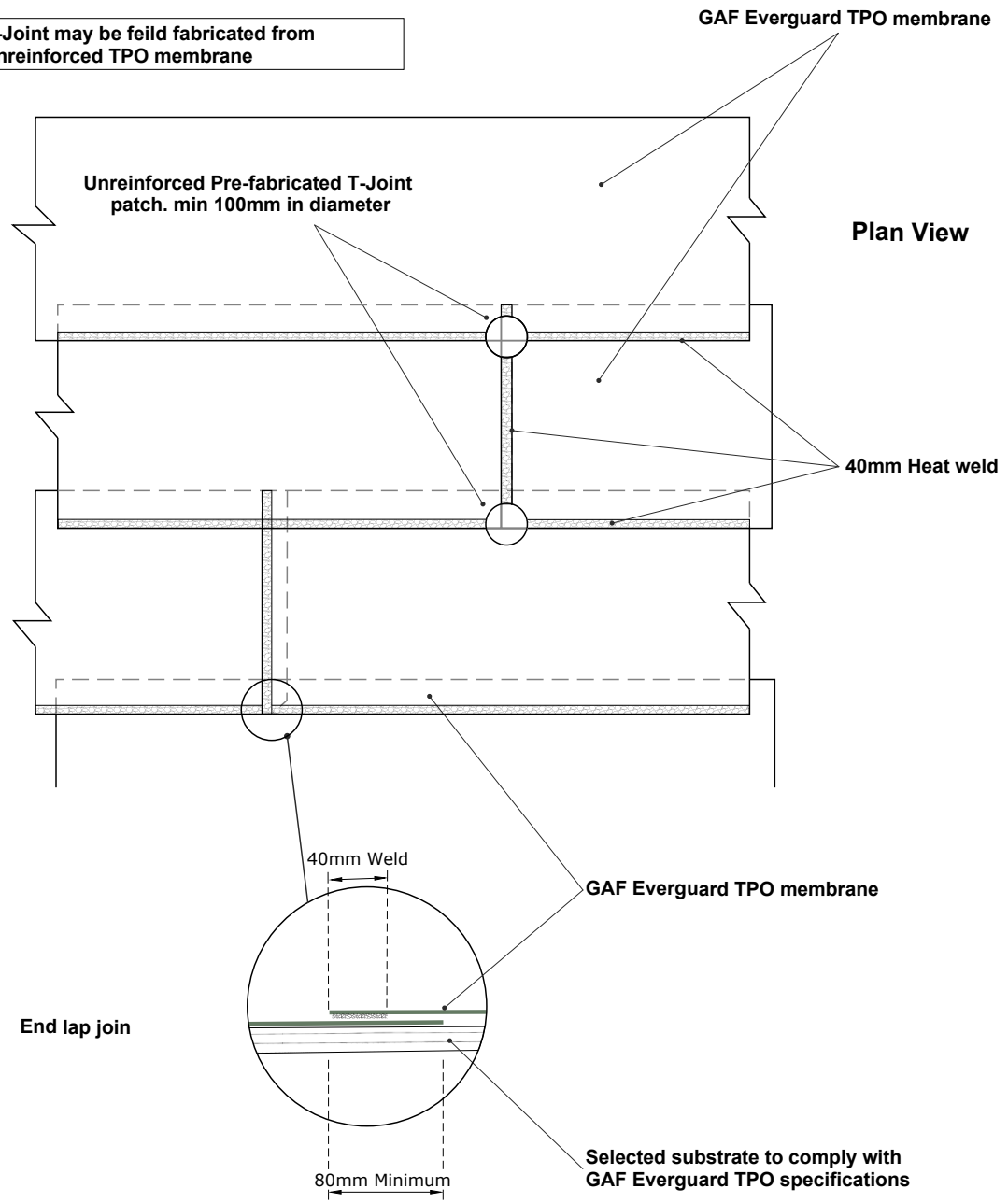
Scale: N.T.S.



TPO TO ALUMINIUM JOINERY

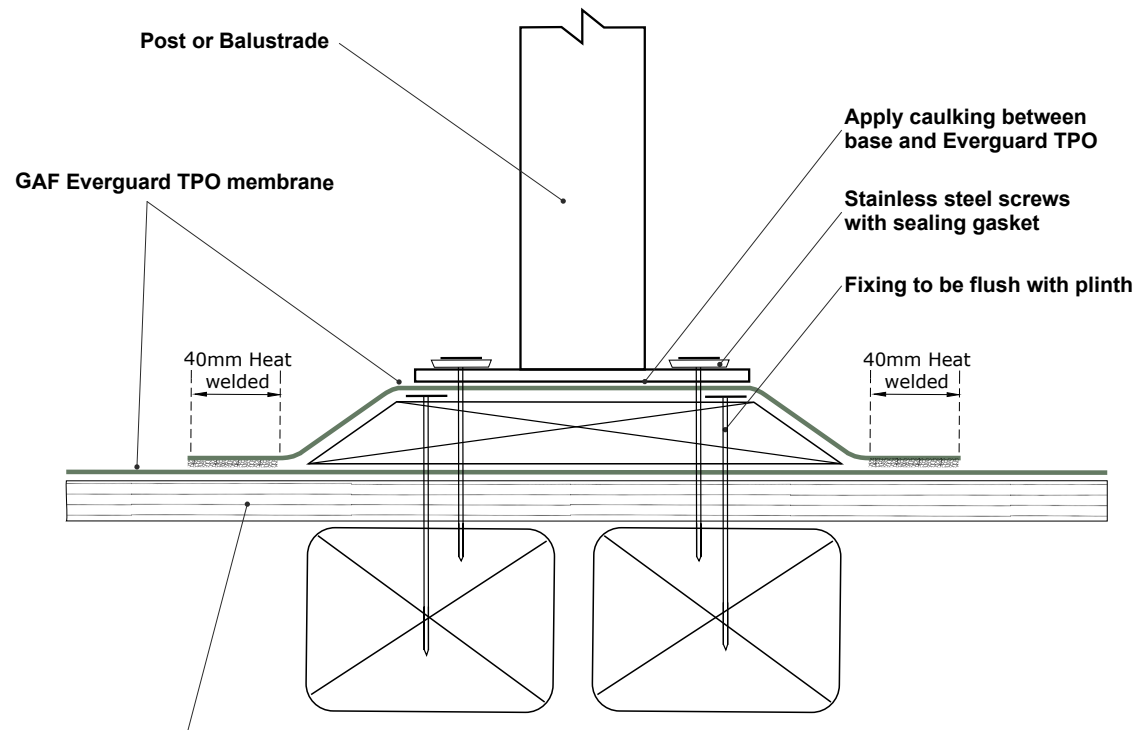
Scale: N.T.S.

T-Joint may be field fabricated from unreinforced TPO membrane



T-JOINT END JOINT DETAIL

Scale: N.T.S.

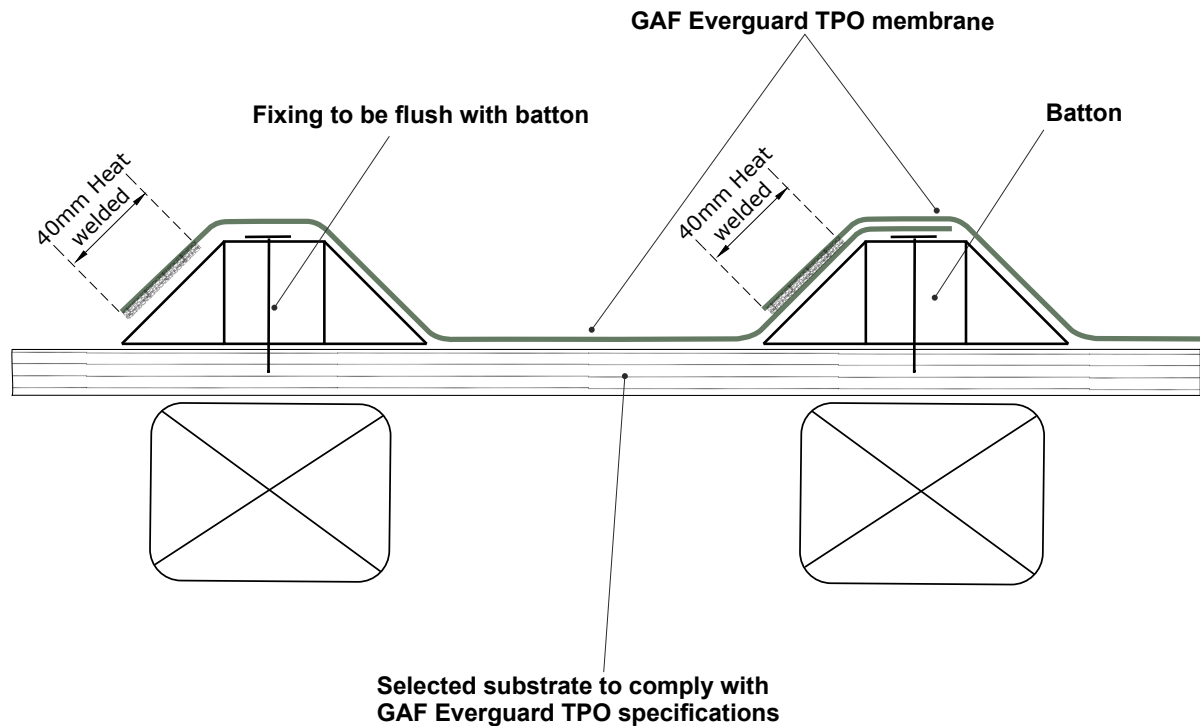


Selected substrate to comply with GAF Everguard TPO specifications

COMMERCIAL BUILDING - SPECIFIC DESIGN

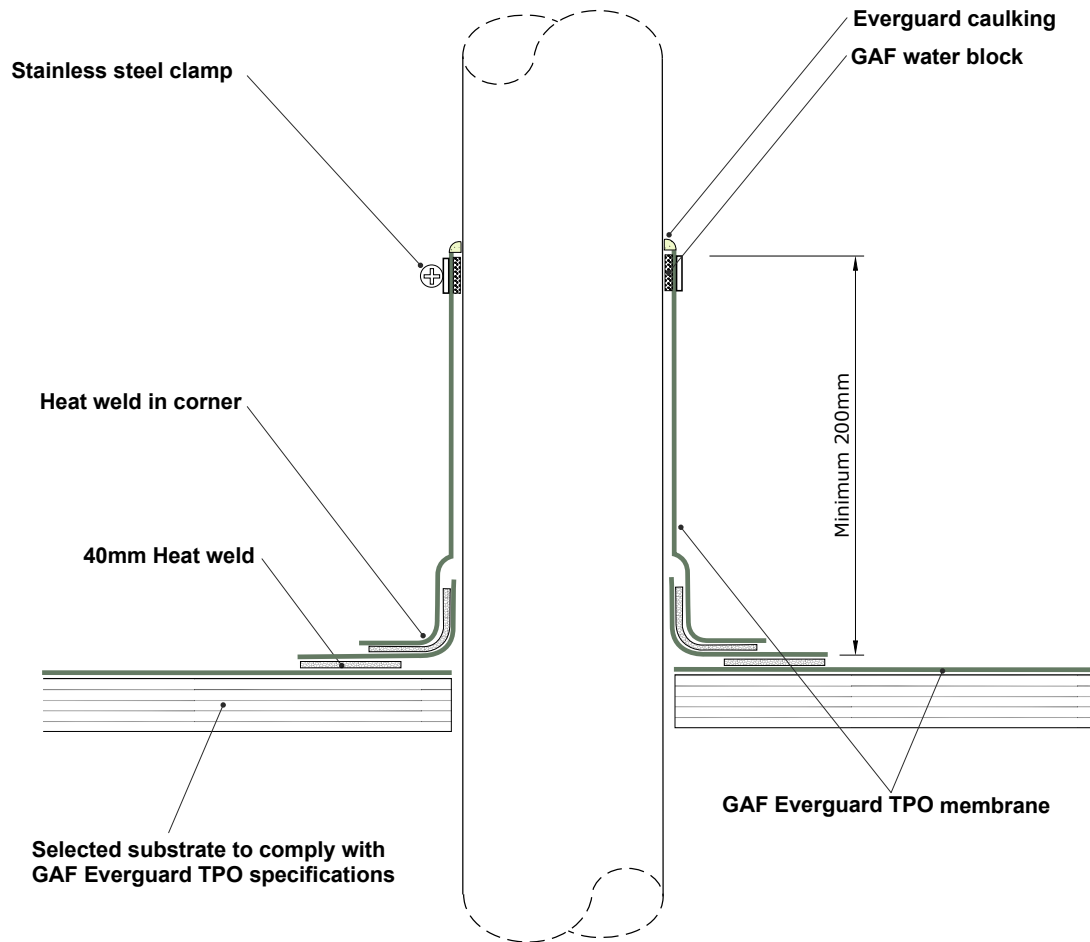
POST OR BALUSTRADE BASE

Scale: N.T.S.



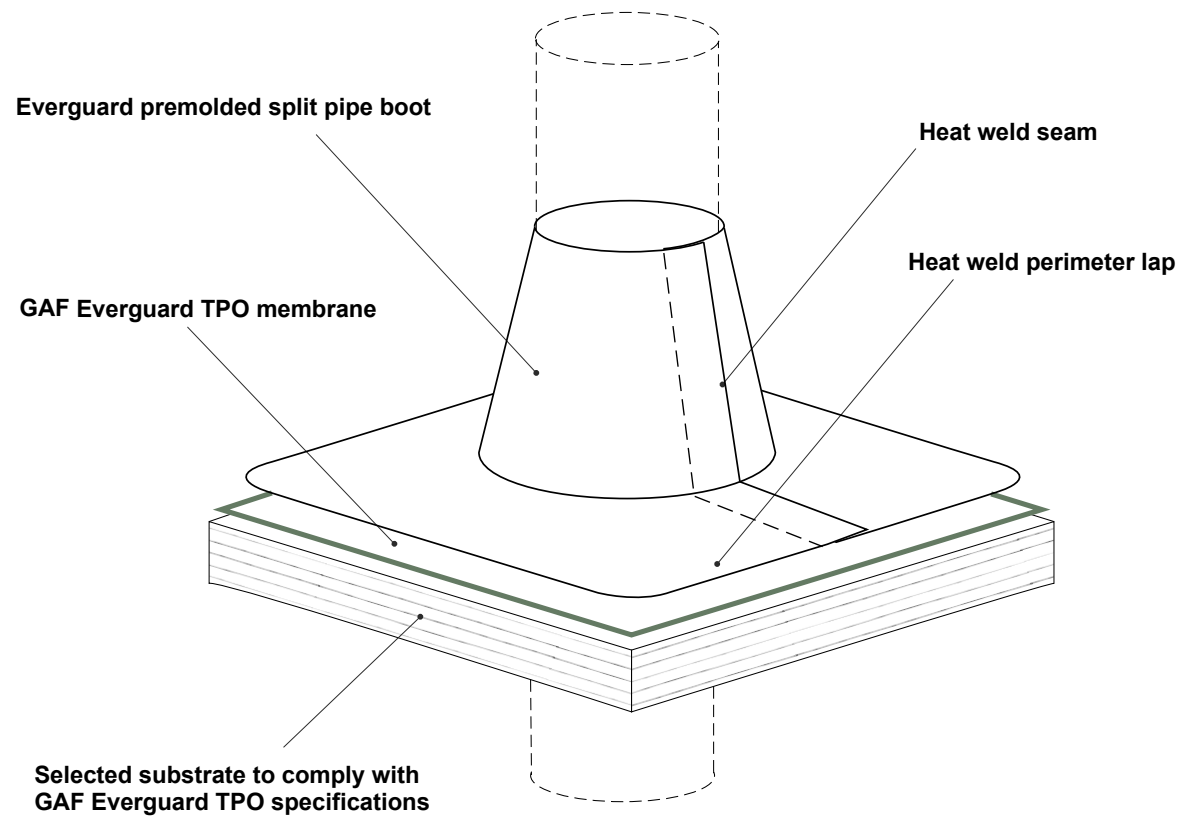
DRESSED BATTEN

Scale: N.T.S.



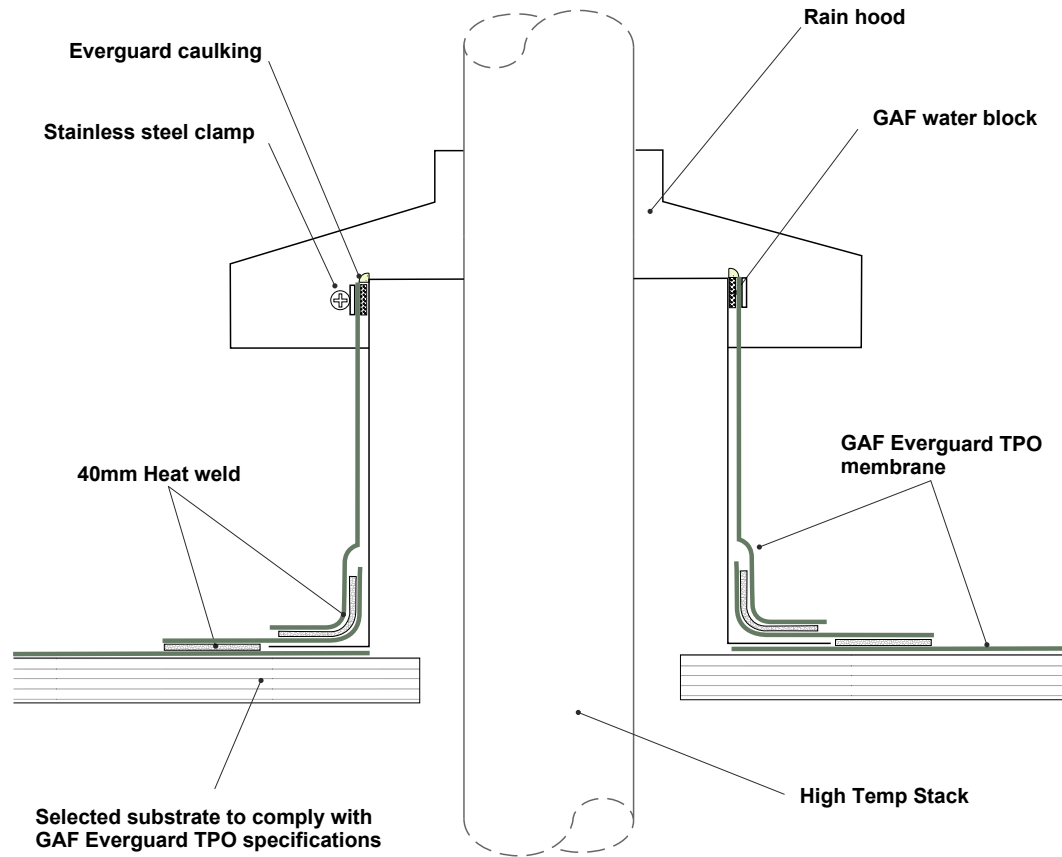
PIPE PENETRATION

Scale: N.T.S.



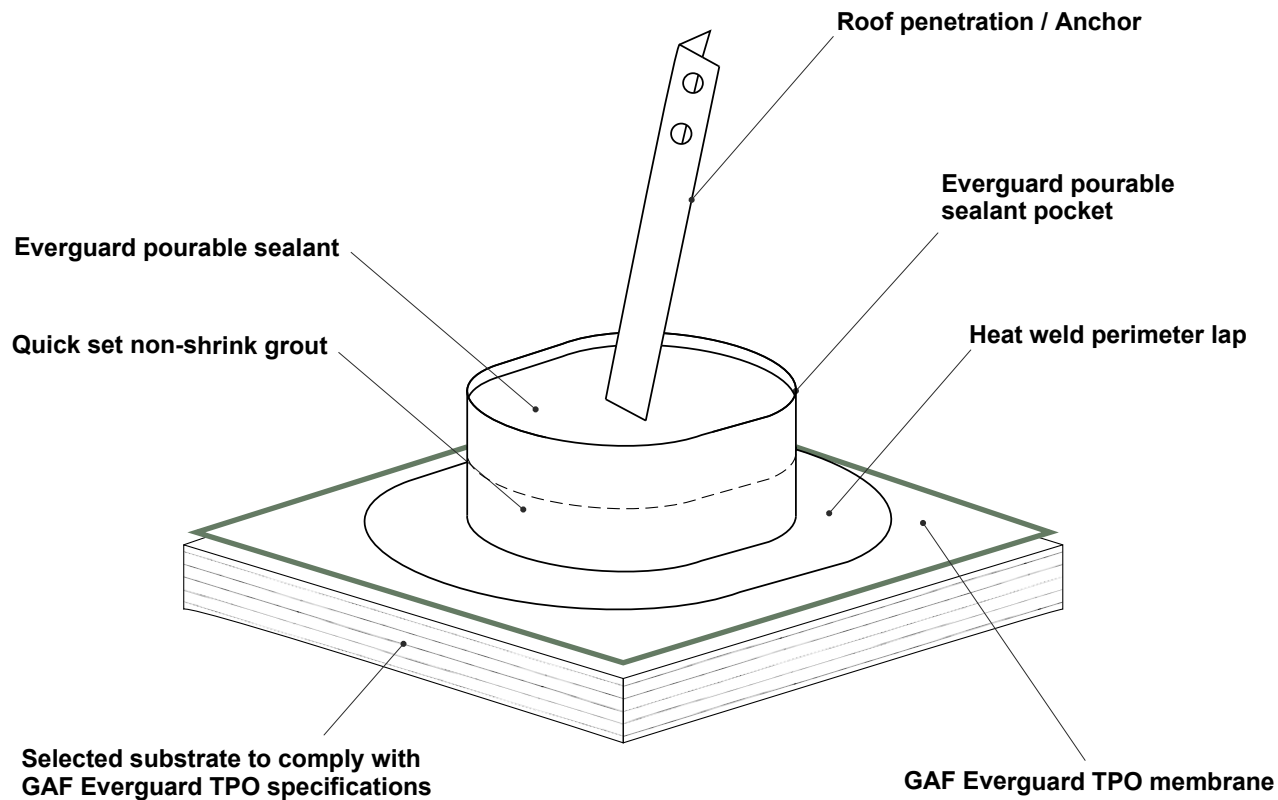
SPLIT PIPE BOOT

Scale: N.T.S.



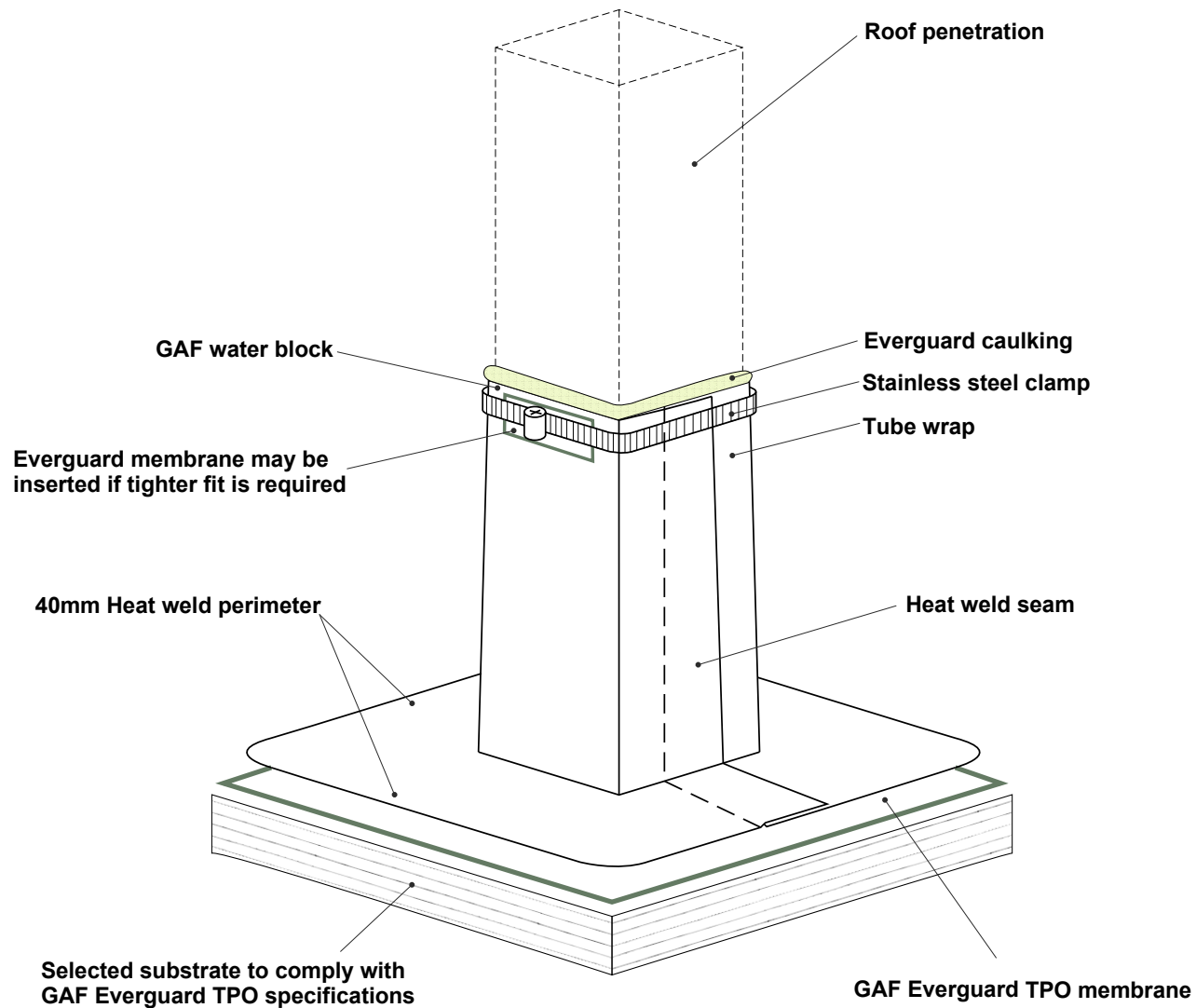
HIGH TEMP STACK FLASHING

Scale: N.T.S.



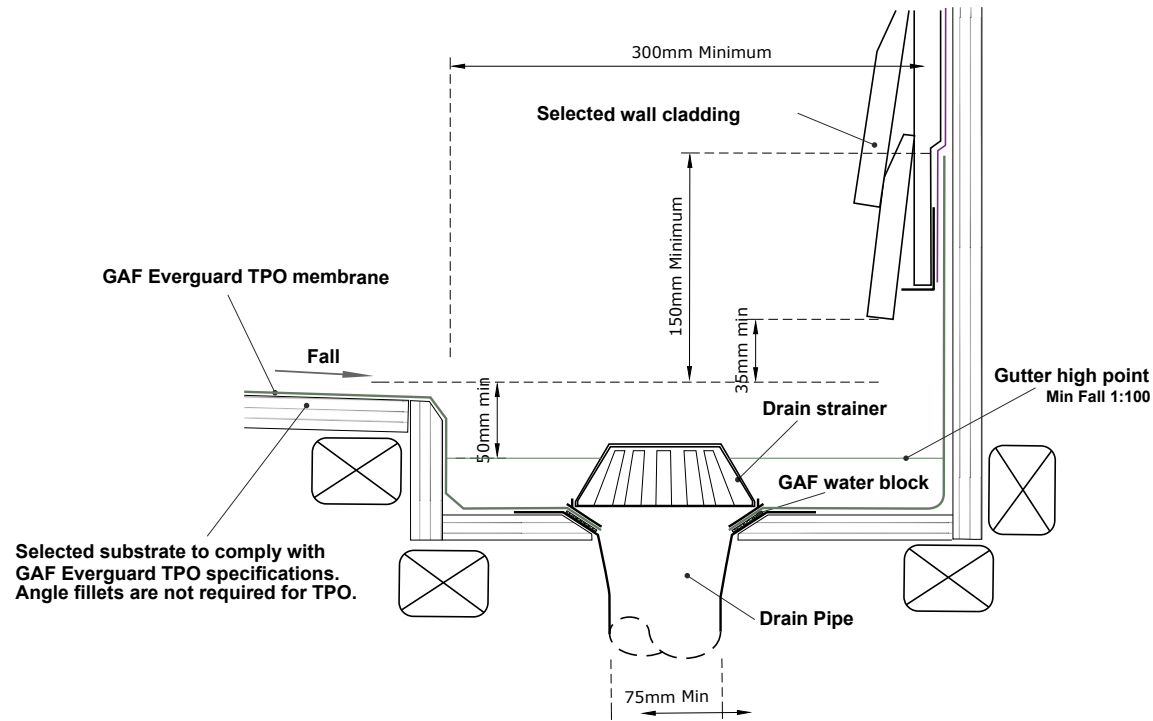
POURABLE SEALANT POCKET

Scale: N.T.S.

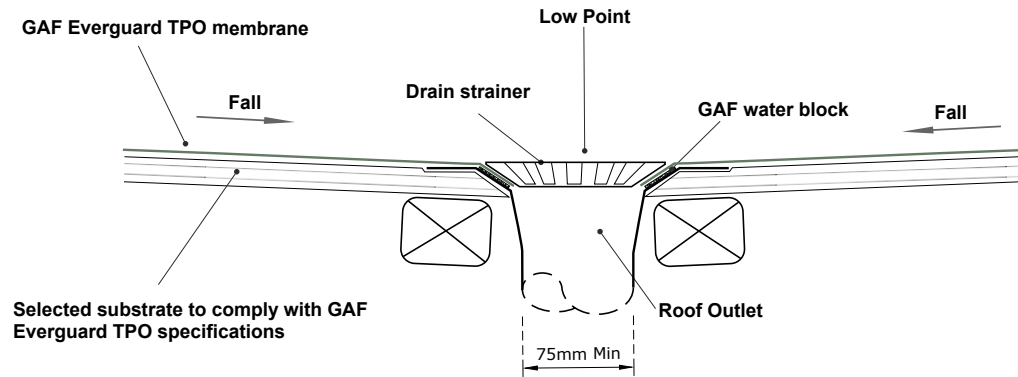


SQUARE TUBE WRAP

Scale: N.T.S.



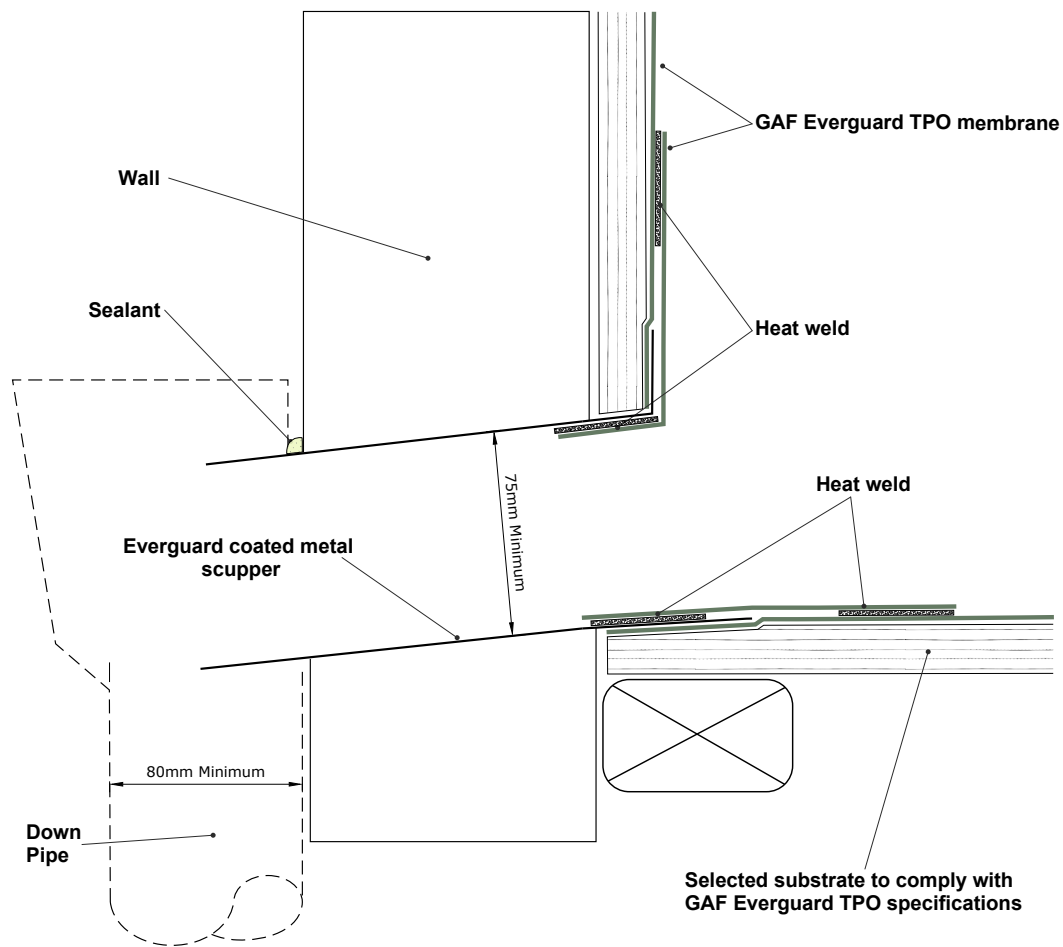
Drain / Dropper



Low Point Outlet

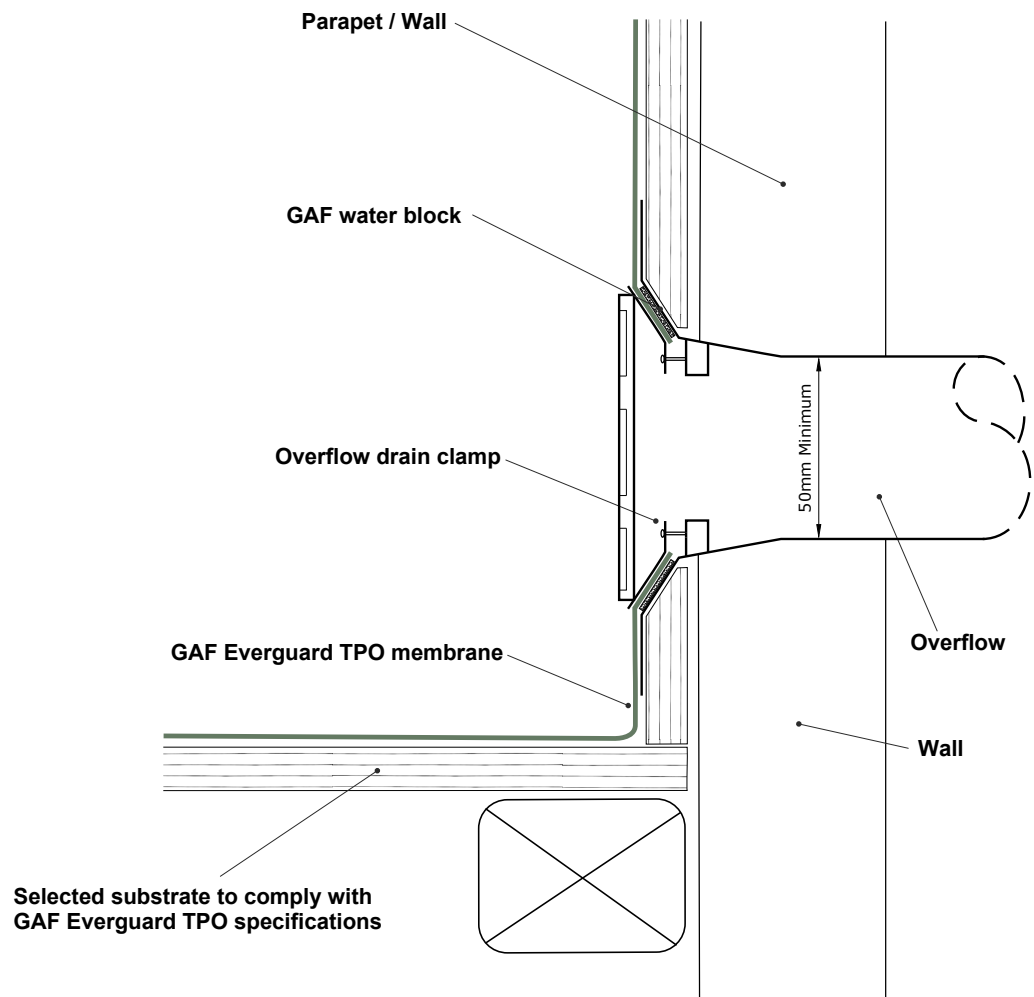
DRAIN SYSTEM

Scale: N.T.S.



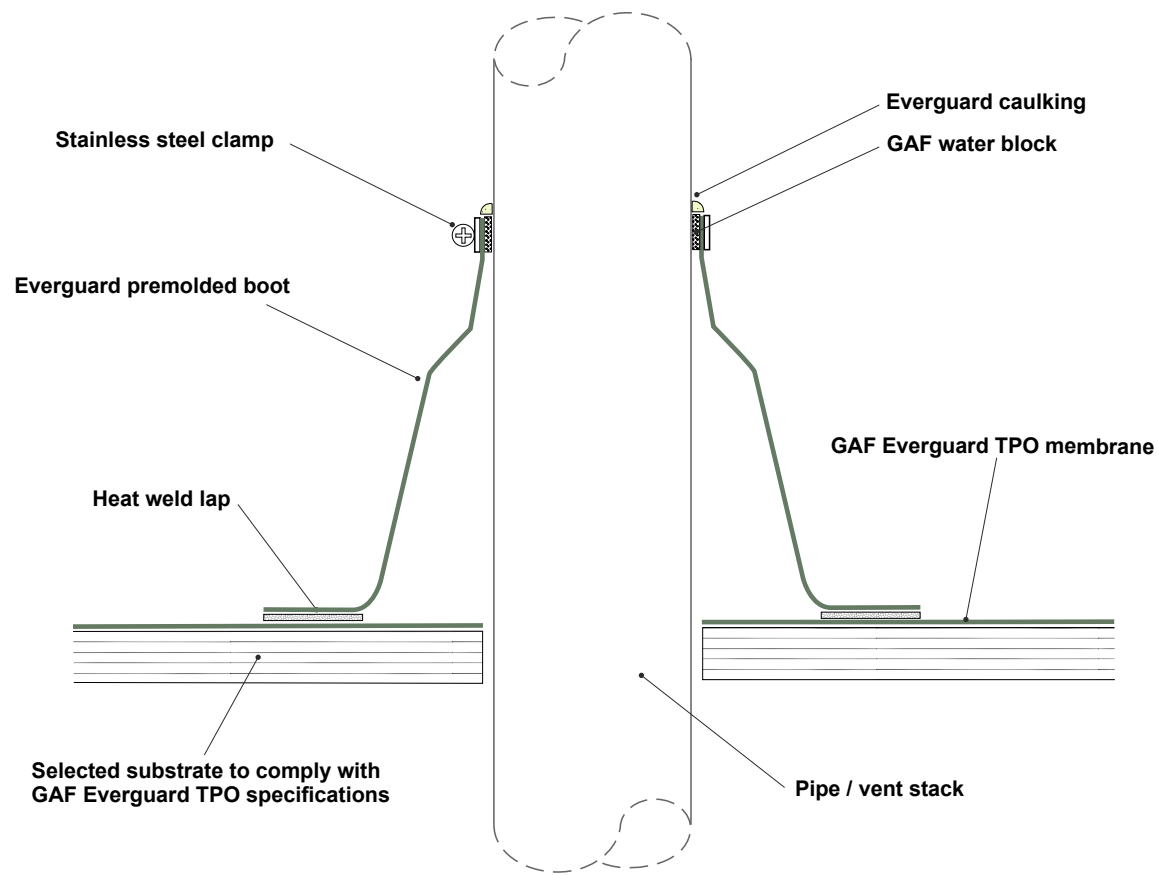
COATED METAL SCRUPPER

Scale: N.T.S.



OVERFLOW PARAPET DRAIN

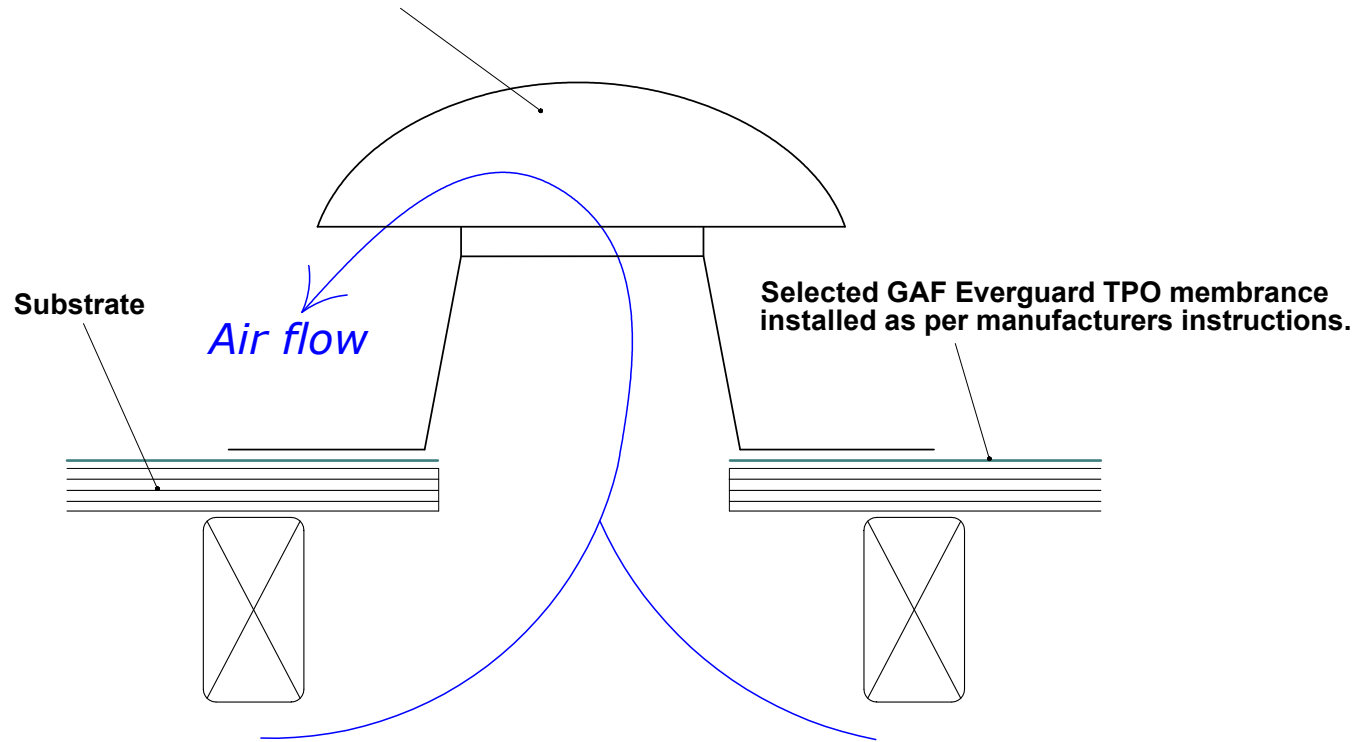
Scale: N.T.S.



PREMOLDED PIPE BOOT

Scale: N.T.S.

**Masterflow TPO vent for TPO and Torch system.
Aluminium powder coated in white, grey or black with
an inside diameter of 115-160mm.**

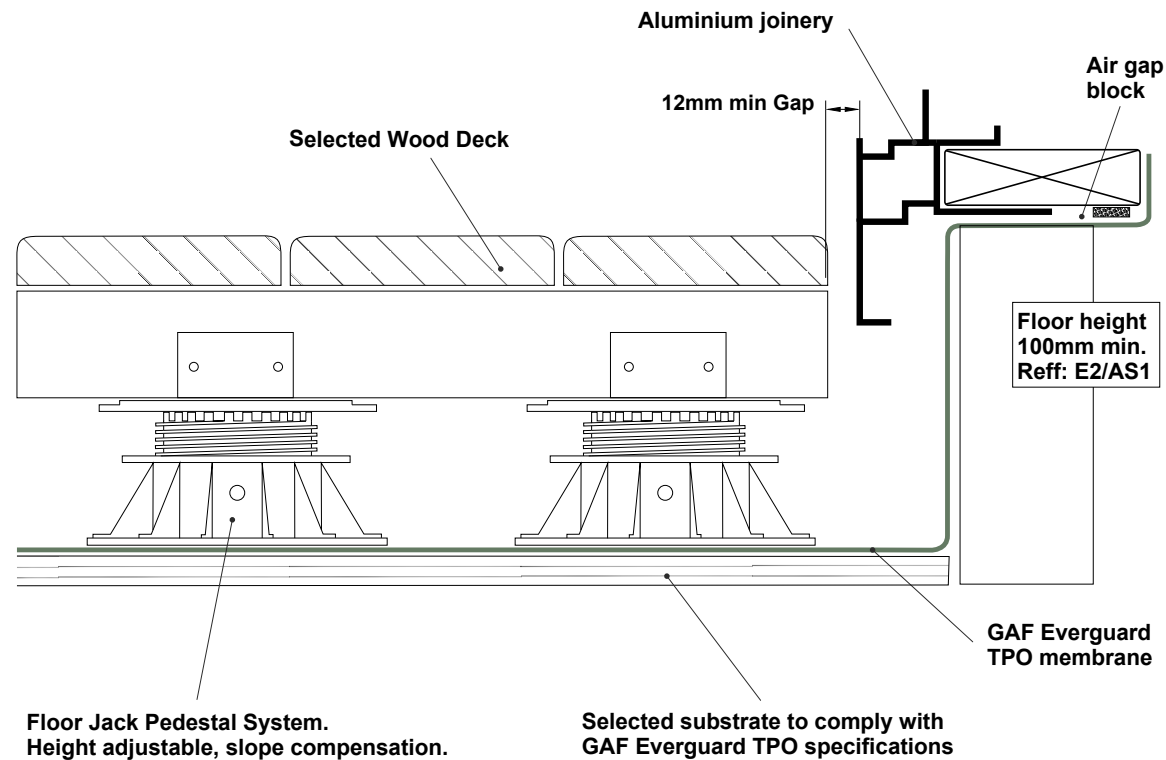


Design notes:

1. Use 2 GAF Masterflow vents per 70m2 area. Ensure cross flow ventilation between blocking supports.
2. Castellated battens can be used under plywood substrate or 20mm holes applied to the blocking.
3. Substrate to comply with GAF substrate checklist readiness sheet www.gafroofing.co.nz/tpo-docs/
4. Ventilation is not required with PIR ISO insulation board substrate.

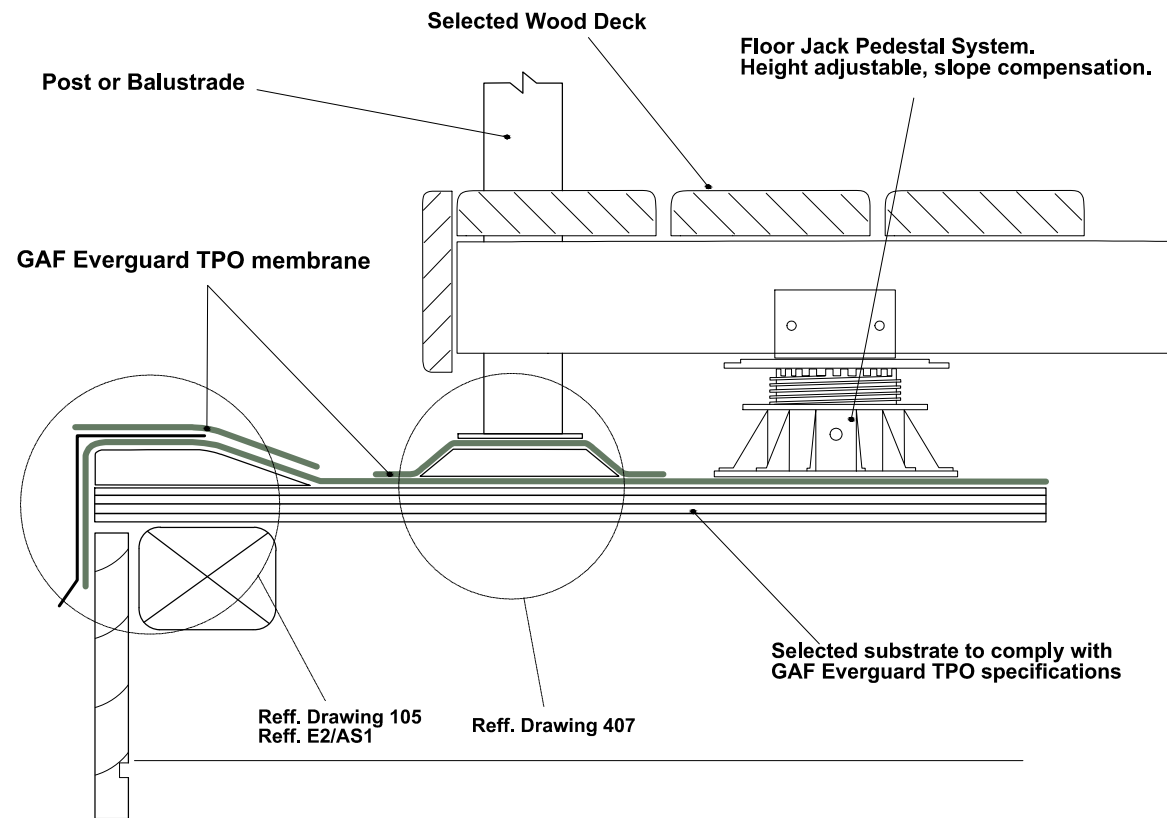
MASTERFLOW VENT

Scale: N.T.S.



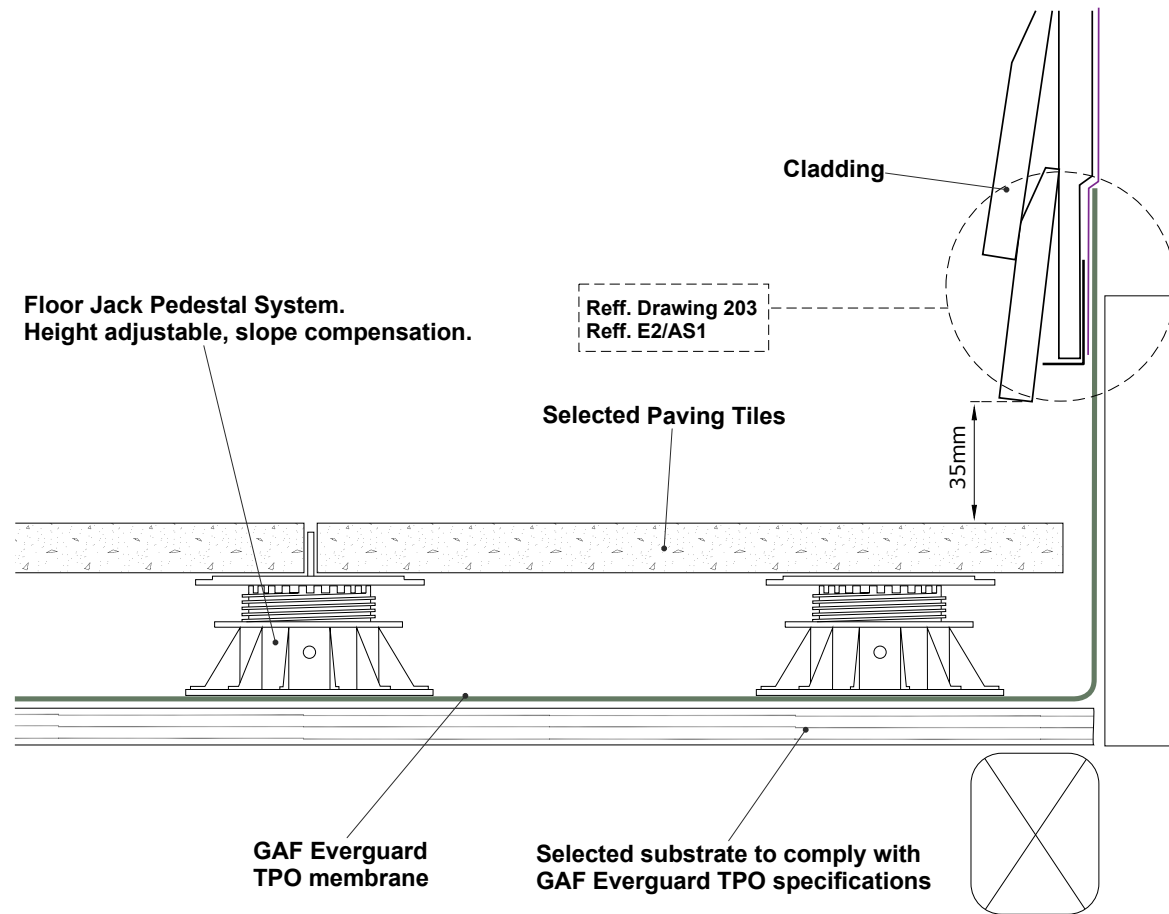
FLOOR JACK PEDESTAL - DECK

Scale: N.T.S.



FLOOR JACK PEDESTAL -TERMINATION

Scale: N.T.S.



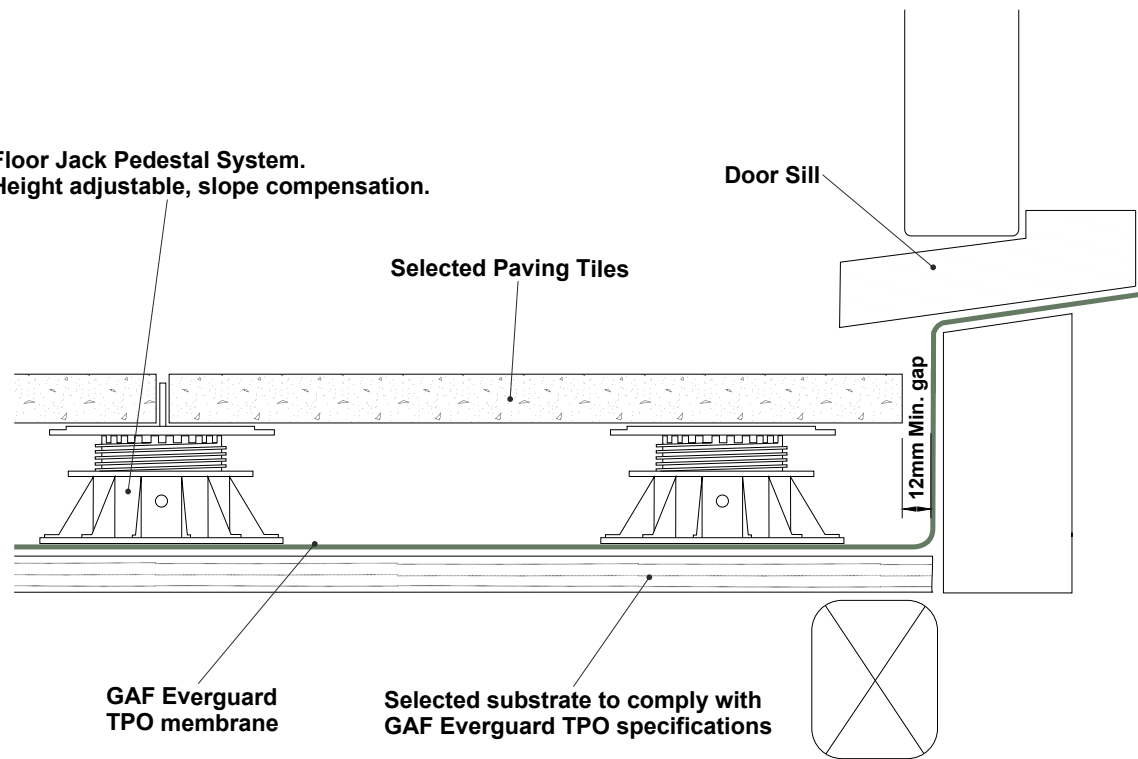
FLOOR JACK PEDESTAL -PAVING TILES

Scale: N.T.S.

Floor Jack Pedestal System.
Height adjustable, slope compensation.

Door Sill

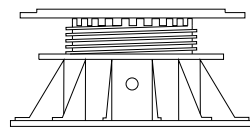
Selected Paving Tiles



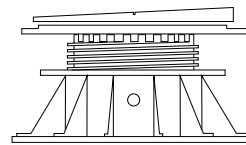
GAF Everguard
TPO membrane

Selected substrate to comply with
GAF Everguard TPO specifications

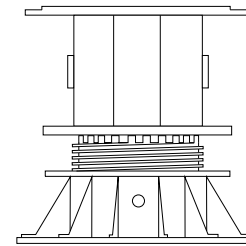
12mm Min. gap



Floor Jack Pedestal



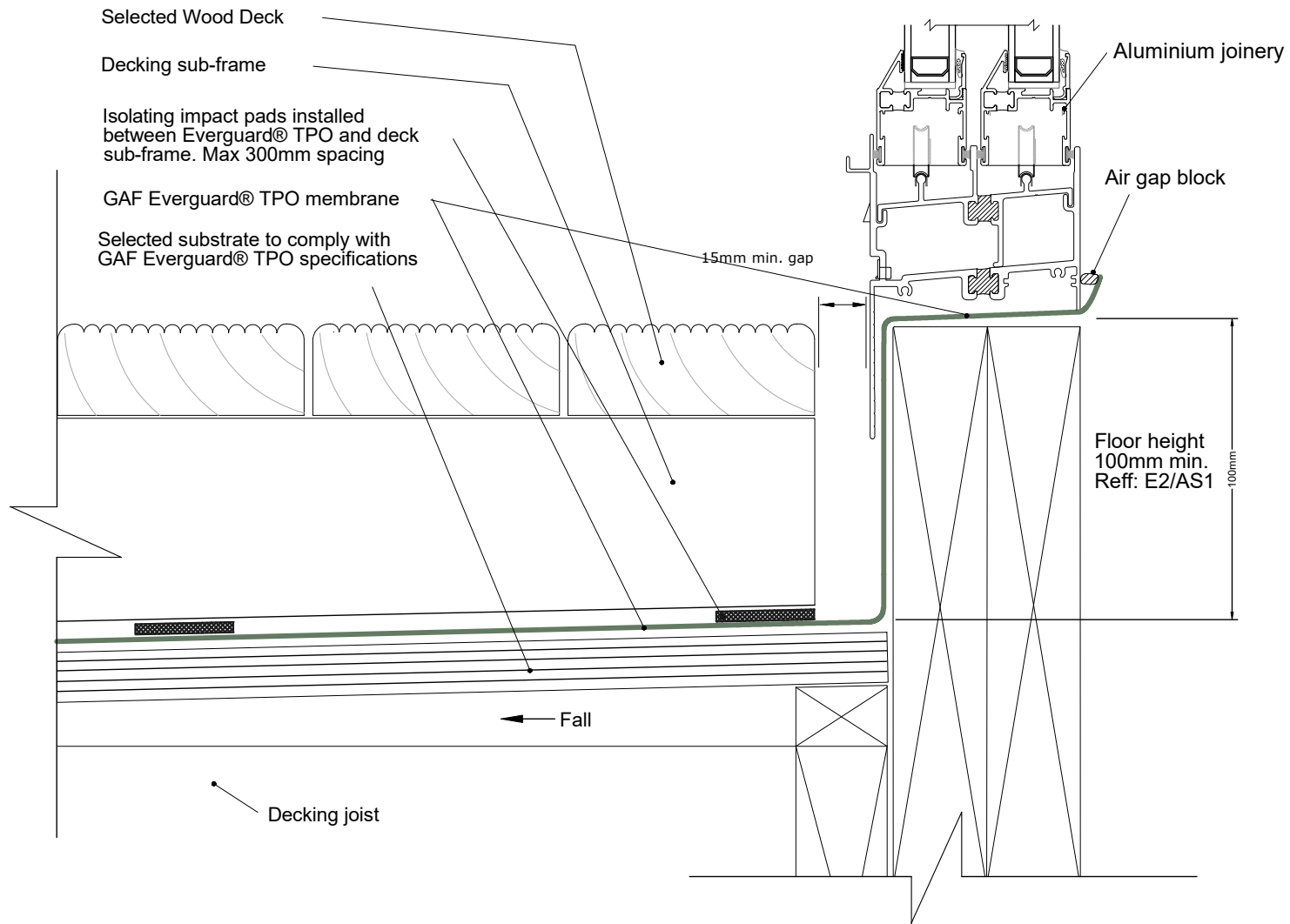
**Floor Jack Pedestal
slope compensation.**



**Floor Jack Pedestal
Height Extension.**

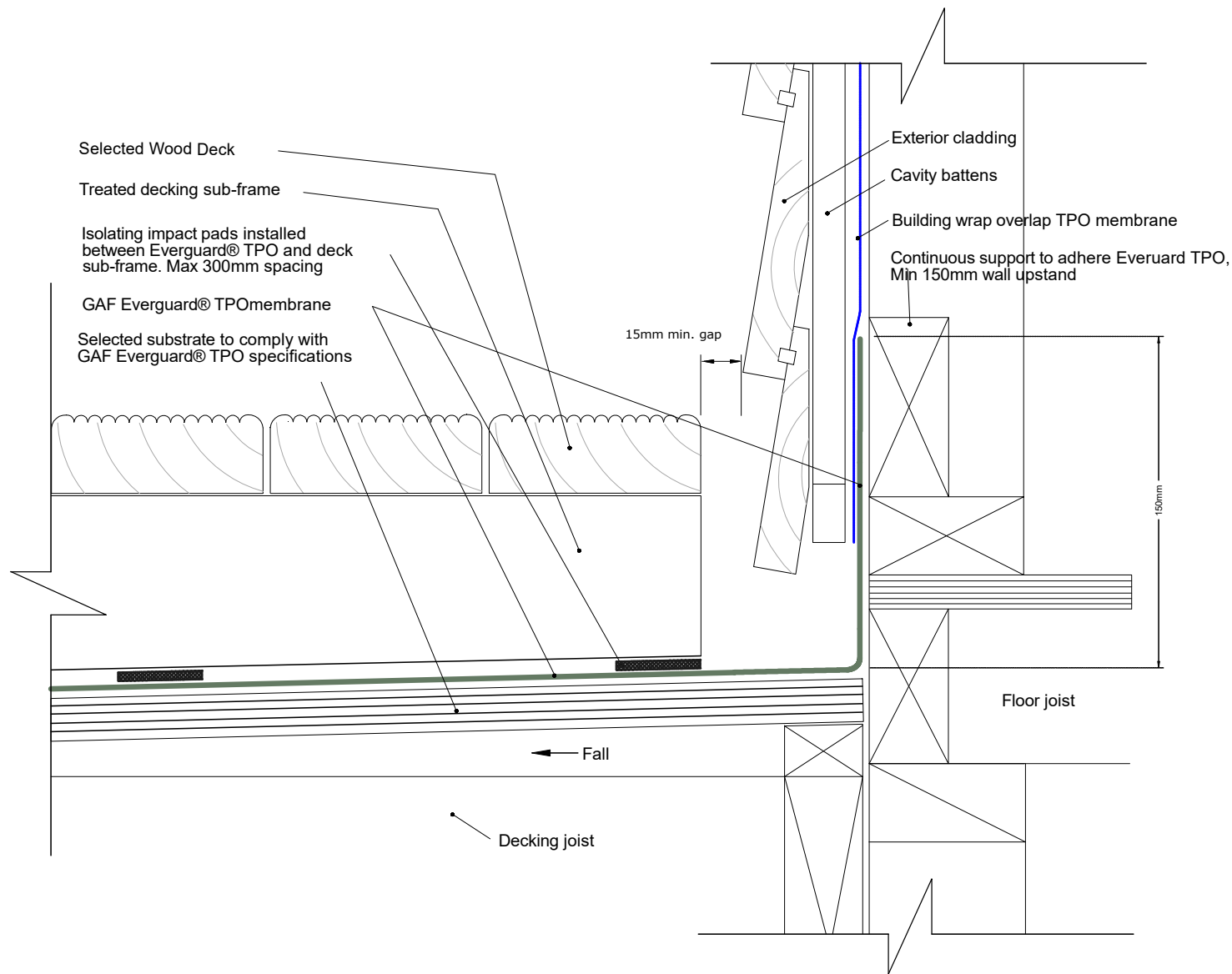
FLOOR JACK PEDESTAL - DOOR SILL

Scale: N.T.S.



FLOATING TIMBER RAFTER - THRESHOLD

Scale: N.T.S.



FLOATING TIMBER RAFTER - WALL

Scale: N.T.S.

Contact Information

TPO LOGISTICS NZ LTD
New Zealand GAF Distributor Office
15 Kahikatea Flat Rd RD4
Dairy Flat, Auckland 0794

TPO Warehouse (green building)
Pick-up, Deliveries and Training
14 Kahikatea Flat Rd RD4
Dairy Flat, Auckland 0794
(Opposite side from office)

Direct Office Contacts
tpoorders@gaf.nz | info@gaf.nz
gafroofing.co.nz | 0800 42 3355

Office Hours
8:30am – 5pm
Monday to Friday



**New Zealand
Distributor**

UltraGuard[®]
Roofing Systems



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0800 423355