

Roofing Logistics New Zealand LTD GAF distributor www.qafroofing.co.nz



Updated 6th December, 2019

TECHNICAL DETAILS FOR 'GAF TPO SINGLE-PLY ROOFING SYSTEM' BRANZ.823



Technical Details as listed are available:

- **101 PARAPET FLASHING 102 - PARAPET FLASHING ALTERNATIVE 103 - DRIP EDGE ALTERNATIVE** 104 - DRIP EDGE DETAIL 105 - BARGE FLASHING **106 - BARGE FLASHING ALTERNATIVE 107 - PARAPET TERMINATION BAR 108 - BARGE TERMINATION BAR** 109 - BARGE WRAP DETAIL 110 - WELDABLE TPO COATED DRIP EDGE FLASHING 201 - CHASE FLASHING ALTERNATIVE 202 - CHASE FLASHING 203 - WALL TRANSITION 204 - SKYLIGHT FLASHING **301 - METAL ROOF TRANSITION 302 - SHINGLE ROOF TRANSITION** 303 - METAL ROOF TO TPO 304 - SHINGLE ROOF TO TPO 305 - TPO - ALUMINIUM JOINERY **306 - SUBSTRATE FLASHING JOINT** 401 - T-JOINT AND JOINT END
- **402 PREFORMED INSIDE CORNER** 403 - FOLDED INSIDE CORNER 404 - FABRICATED INSIDE CORNER **405 - FLUTED OUTSIDE CORNER** 406 - WALL / CURB OUTSIDE CORNER 407 - POST / BALUSTRADE BASE **408 - DRESSED BATTEN DETAIL 501 - PIPE PENETRATION** 502 - SPLIT PIPE BOOT **503 - HIGH TEMPERATURE STACK 504 - POURABLE SEALANT POCKET** 505 - SQUARE TUBE WRAP 506 - DRAIN DROPPER 507 - COATED METAL SCRUPPER 508 - OVER FLOW PARAPET DRAIN **509 - PREMOLDED PIPE BOOT** 601 - FLOOR JACK PEDESTAL - DECK 602 - FLOOR JACK PEDESTAL - TERMINATION 603 - FLOOR JACK PEDESTAL - PAVING TILES 604 - FLOOR JACK PEDESTAL - DOOR SILL

Everguard and Everguard Extreme TPO Roof and Deck Membranes -Technical and Installation Information

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.



CONSTRUCTION DETAILS FOR 'GAF TPO SINGLE-PLY ROOFING SYSTEM'

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 or suspended concrete slabs; and,
- with minimum falls for roofs of 1:30 and decks of 1:40
- with decks that have a maximum area of 40 m2; and ,
- 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 or suspended concrete slab; and,

- situated in specific design wind pressures up to a maximum design differential ultimate limit state (ULS) of 3 kPa; and,

- with the weather tightness design of all junctions for each specific structure being the responsibility of the building designer.

Roofs and decks waterproofed with Everguard and Everguard Extreme TPO Roof and Deck Membrane Systems must be designed and constructed in accordance with the following limitations:

- nominally flat roofs and decks and pitched roofs constructed to drain water to gutters and drainage outlets complying with the NZBC; and,

- with no integral roof gardens; and,

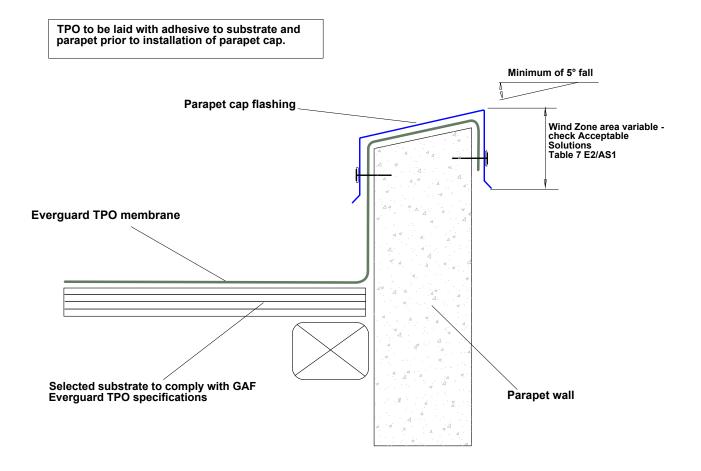
- no steps in level within the deck area, no integral roof gardens and no downpipes direct discharge to decks; and,

- with deck membranes continually protected from physical damage by a pedestrian protection system.

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.

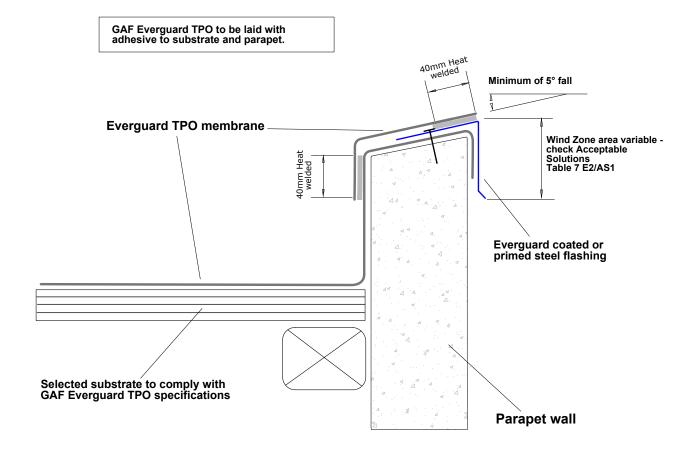
For technical assistance call 0800 423355 or visit www.gafroofing.co.nz





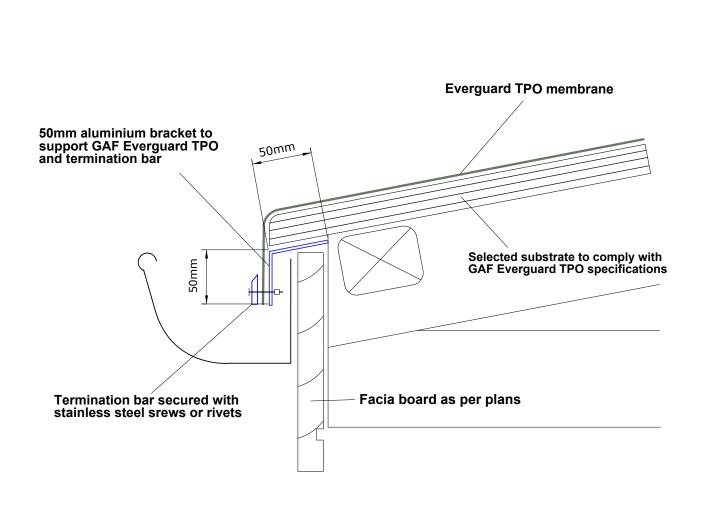
GAE	DRAWING: PARAPET FLASHING	DATE: 10 JUNE 2014	detail: 101	
GAP	DETAILS FOR: EVERGUARD TPO ROOFING	SCALE: N/A		BRANZ Appraised Apprasal No 529





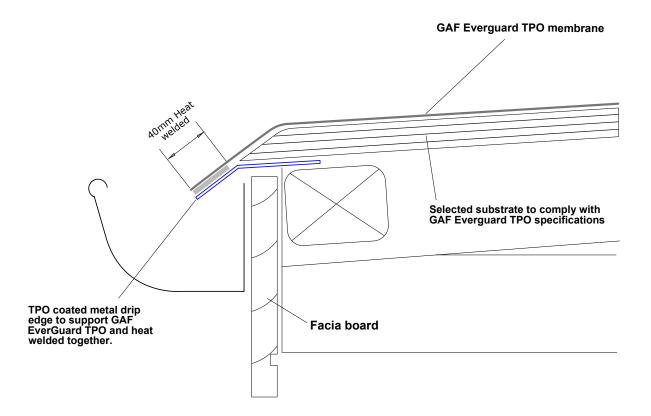
GAE	DRAWING: PARAPET WALL ALTERNATIVE	DATE: 10 JUNE 2014	DETAIL: 102	
GAP	DETAILS FOR: EVERGUARD TPO ROOFING	SCALE: N/A		BRANZ Appraised Apprasal No 529





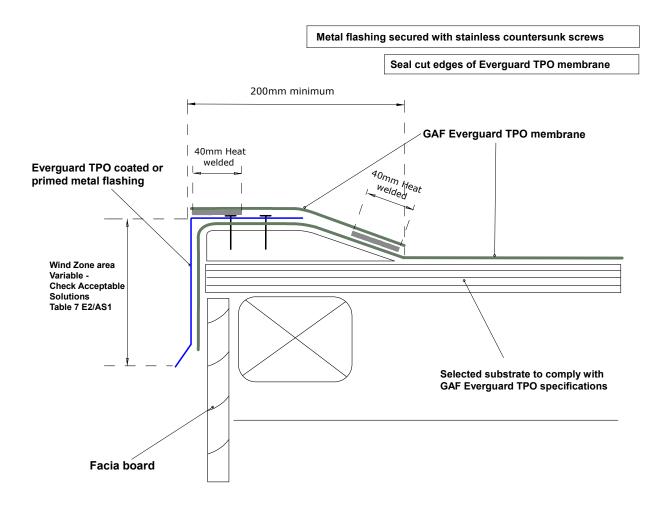
GAE	DRAWING: DRIP EDGE ALTERNATIVE	DATE: 10 JUNE 2014	detail: 103	
GAP	DETAILS FOR: EVERGUARD TPO ROOFING	SCALE: N/A		BRANZ Appraised Apprasal No 529





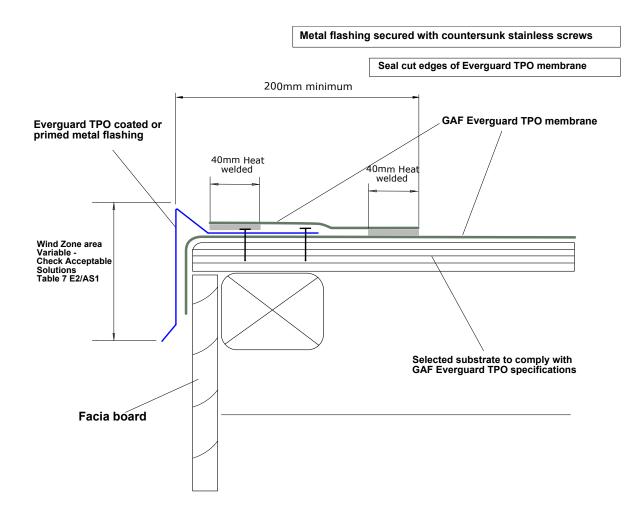
GAE	DRAWING: DRIP EDGE SYSTEM	DATE: 10 JUNE 2014	DETAIL: 104	
GAF	DETAILS FOR: EVERGUARD TPO ROOFING	SCALE: N/A		BRANZ Appraised Apprasal No 529





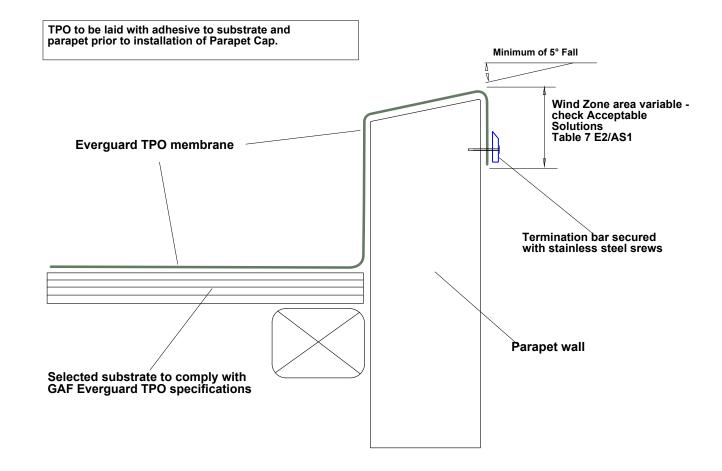
GAE	DRAWING: BARGE FLASHING SYSTEM	DATE: 10 JUNE 2014	detail: 105	
GAP	DETAILS FOR: EVERGUARD TPO ROOFING	SCALE: N/A		BRANZ Appraised Apprasal No 529





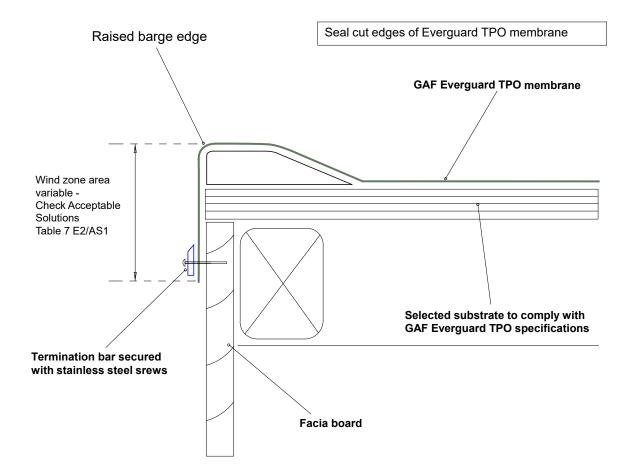
GAE	DRAWING: BARGE FLASHING ALT	DATE: 10 JUNE 2014	DETAIL: 106	
GAP	DETAILS FOR: EVERGUARD TPO ROOFING	SCALE: N/A		BRANZ Appraised Apprasal No 529





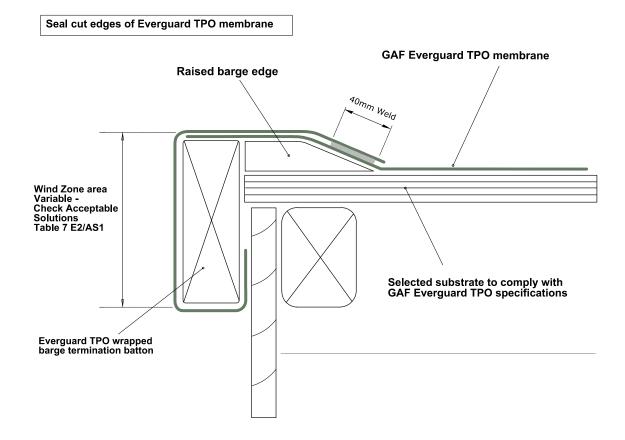
GAE	DRAWING: PARAPET TERMINATION BAR	DATE: 10 JUNE 2014	DETAIL: 107	
GAF	DETAILS FOR: EVERGUARD TPO ROOFING	SCALE: N/A		BRANZ Appraised Apprasal No 529





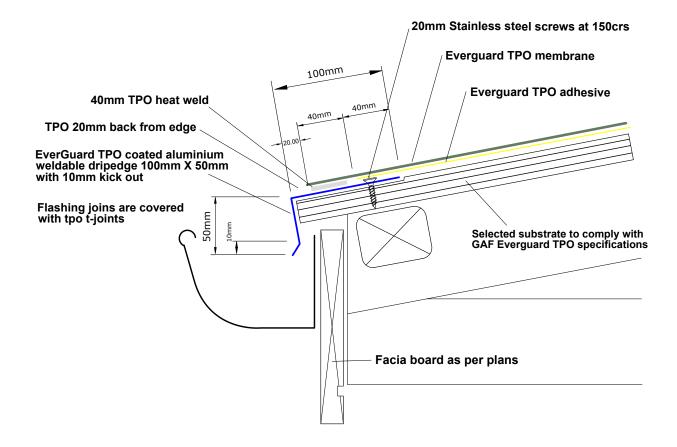
GAE	DRAWING: BARGE TERMINATION BAR	DATE: 10 JUNE 2014	DETAIL: 108	
GAP	DETAILS FOR: EVERGUARD TPO ROOFING	SCALE: N/A		BRANZ Appraised Apprasal No 529





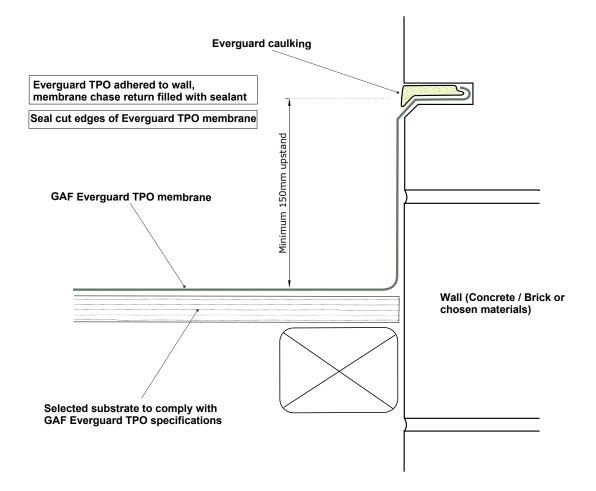
GAE	DRAWING: BARGE WRAP DETAIL	DATE: 10 JUNE 2014	DETAIL: 109	X
GAP	DETAILS FOR: EVERGUARD TPO ROOFING	SCALE: N/A		BRANZ Appraised Apprasal No 529





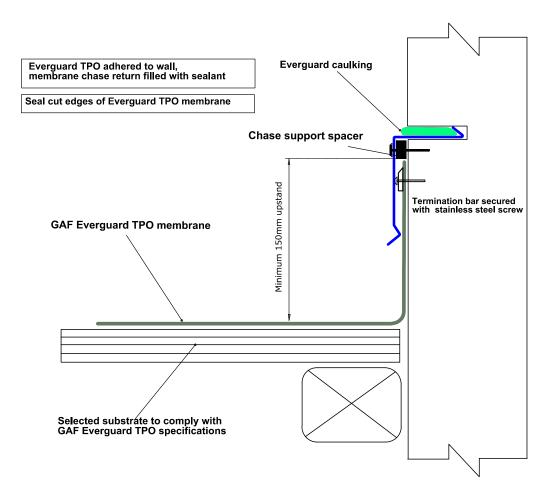
GAE	DRAWING: WELDABLE TPO COATED DRIP EDGE FLASHING	DATE: 01 MARCH 2019	detail: 110	
GAP	DETAILS FOR: EVERGUARD TPO ROOFING	SCALE: NTS		BRANZ Appraised Apprasal No 529





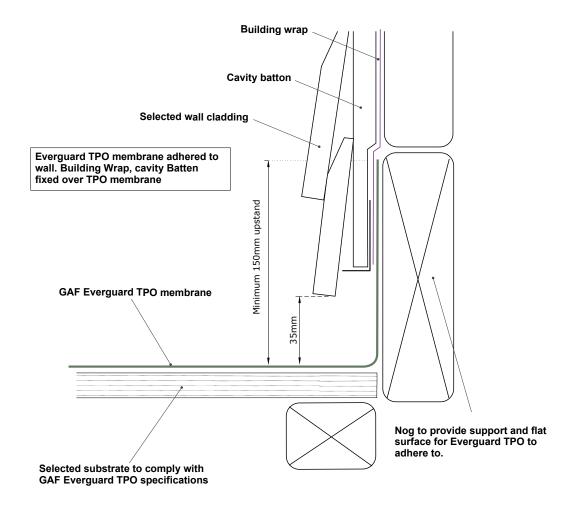
GAE	DRAWING: CHASE FLASHING SYSTEM	DATE: 10 JUNE 2014	DETAIL: 201	
GAP	DETAILS FOR: EVERGUARD TPO ROOFING	SCALE: N/A		BRANZ Appraised Apprasal No 529





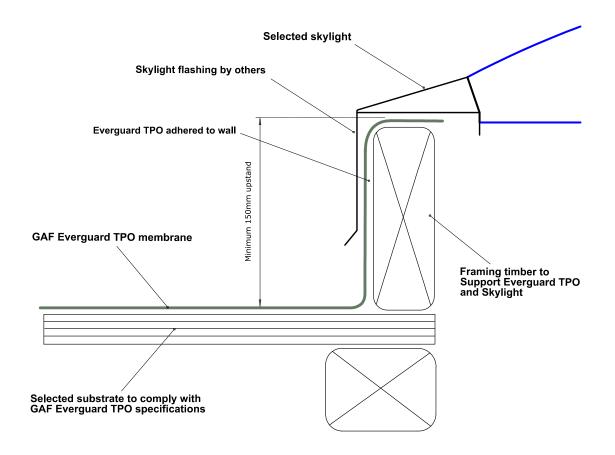
GAE	DRAWING: CHASE FLASHING SYSTEM	DATE: 10 JUNE 2014	DETAIL: 202	
GAF	DETAILS FOR: EVERGUARD TPO ROOFING	SCALE: N/A		BRANZ Appraised Apprasal No 529





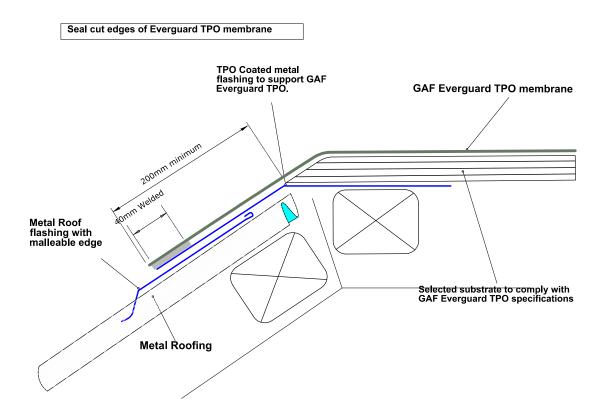
GAF	DRAWING: TRANSITION - WALL	DATE: 10 JUNE 2014	DETAIL: 203	×
	DETAILS FOR: EVERGUARD TPO ROOFING	SCALE: N/A		BRANZ Appraised Apprasal No 529





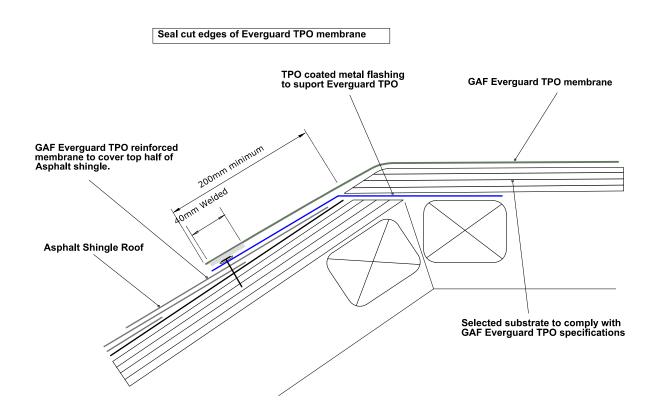
GAF	DRAWING: SKYLIGHT FLASHING	DATE: 10 JUNE 2014	DETAIL: 204	
	DETAILS FOR: EVERGUARD TPO ROOFING	SCALE: N/A		BRANZ Appraised Apprasal No 529





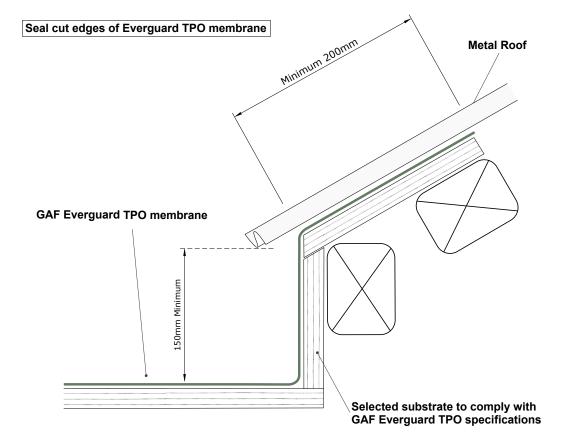
GAF	DRAWING: TRANSITION - METAL ROOF	DATE: 10 JUNE 2014	detail: 301	
	DETAILS FOR: EVERGUARD TPO ROOFING	SCALE: N/A		BRANZ Appraised Apprasal No 529





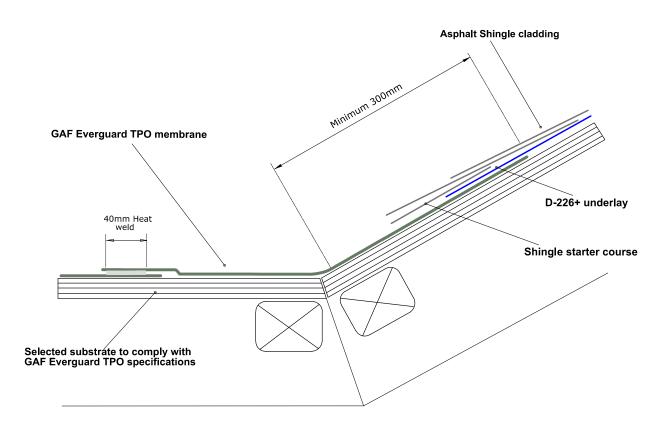
CAE	DRAWING: TRANSITION - SHINGLE ROOF	date: 10 JUNE 2014	DETAIL: 302	
GAP	DETAILS FOR: EVERGUARD TPO ROOFING	SCALE: N/A		BRANZ Appraised Apprasal No 529





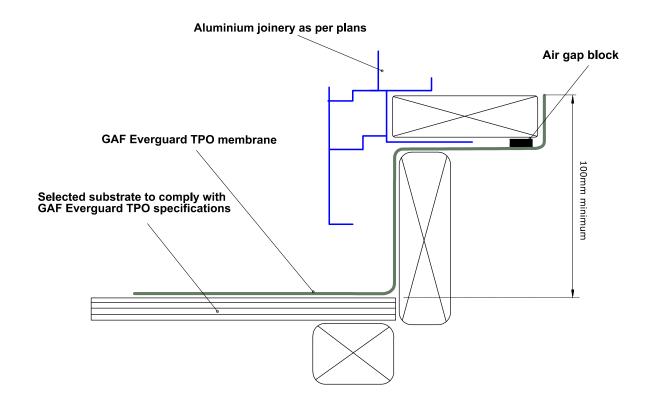
CAE	DRAWING: METAL ROOF TO TPO	DATE: 10 JUNE 2014	DETAIL: 303	
GAF	DETAILS FOR: EVERGUARD TPO ROOFING	SCALE: N/A		BRANZ Appraised Apprasal No 529





GAF	DRAWING: SHINGLE ROOF TO TPO	DATE: 10 JUNE 2014	detail: 304	
	DETAILS FOR: EVERGUARD TPO ROOFING	SCALE: N/A		BRANZ Appraised Apprasal No 529



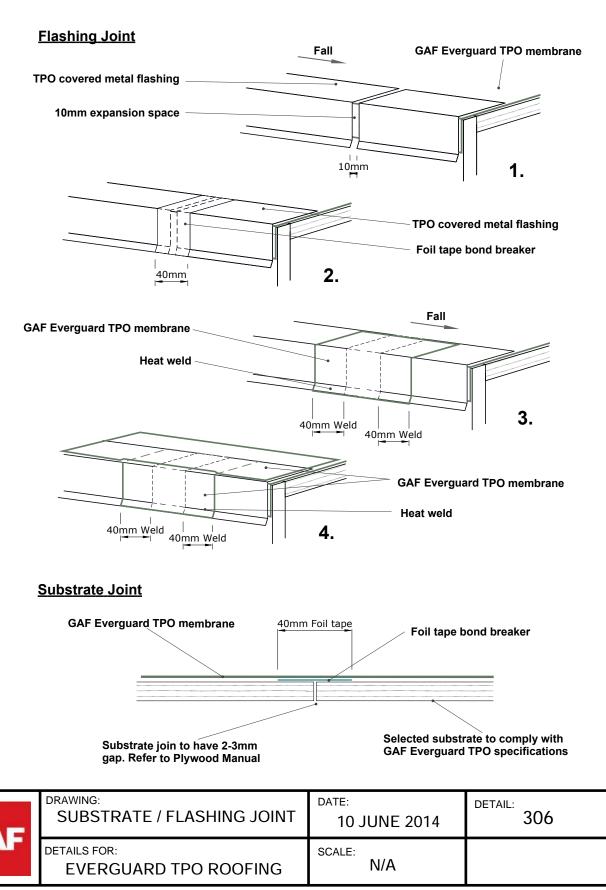


GAF	DRAWING: TPO TO ALUMINIUM JOINERY	DATE: 10 JUNE 2014	DETAIL: 305	
	DETAILS FOR: EVERGUARD TPO ROOFING	SCALE: N/A		BRANZ Appraised Apprasal No 529

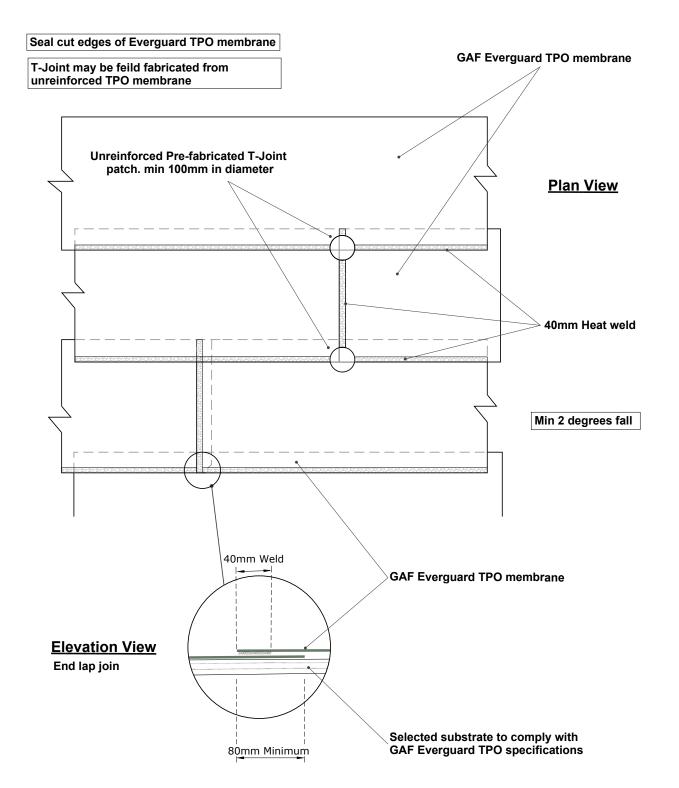


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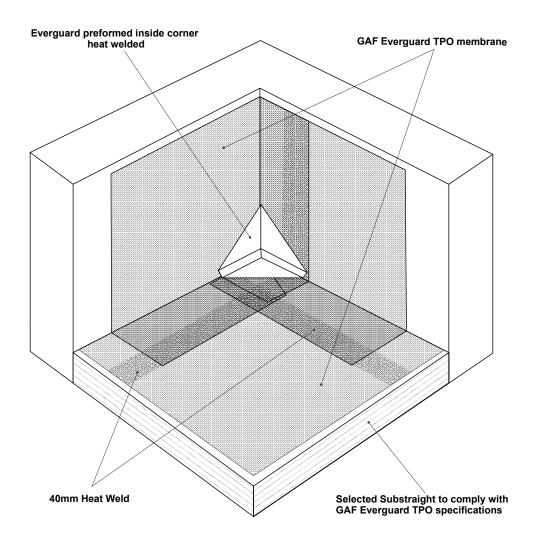
CAE	DRAWING: T-JOINT / END JOINT DETAIL	DATE: 10 JUNE 2014	detail: 401	
GAP	DETAILS FOR: EVERGUARD TPO ROOFING	SCALE: N/A		BRANZ Appraised Apprasal No 529



CONSTRUCTION DETAILS FOR 'GAF TPO SINGLE-PLY ROOFING SYSTEM'

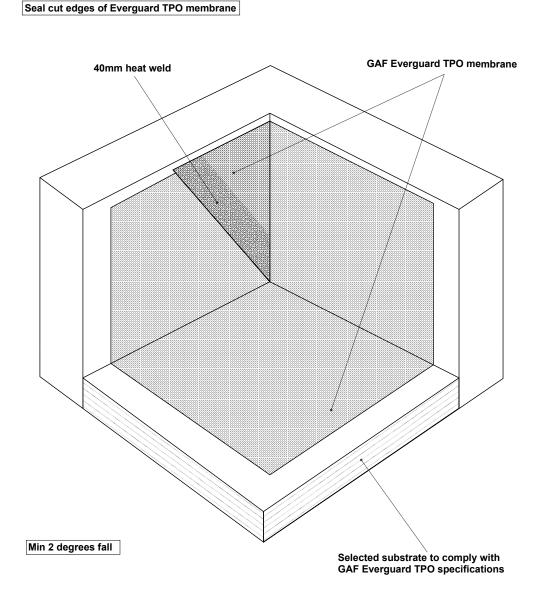
Seal cut edges of Everguard TPO membrane

Min 2 degrees fall



GAF	DRAWING: PRE-FORMED INSIDE CORNER	DATE: 10 JUNE 2014	detail: 402	
	DETAILS FOR: EVERGUARD TPO ROOFING	SCALE: N/A		BRANZ Appraised Apprasal No 529

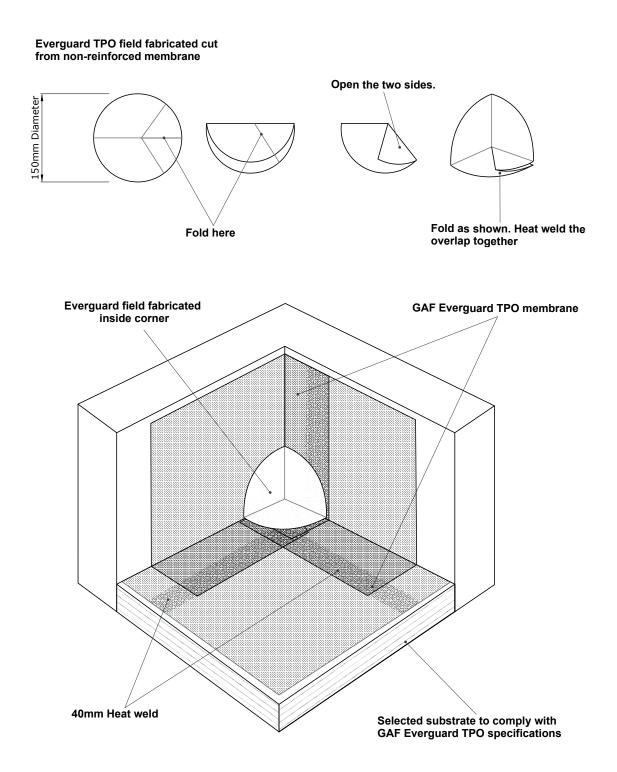




CAE	DRAWING: FOLDED INSIDE CORNER	date: 10 JUNE 2014	detail: 403	
GAF	DETAILS FOR: EVERGUARD TPO ROOFING	SCALE: N/A		BRANZ

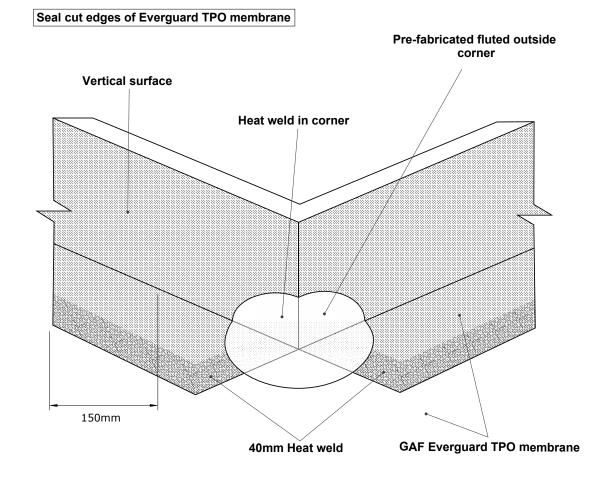






GAF	DRAWING: FABRICATED INSIDE CORNER	DATE: 10 JUNE 2014	detail: 404	
	DETAILS FOR: EVERGUARD TPO ROOFING	SCALE: N/A		BRANZ Appraised Apprasal No 529



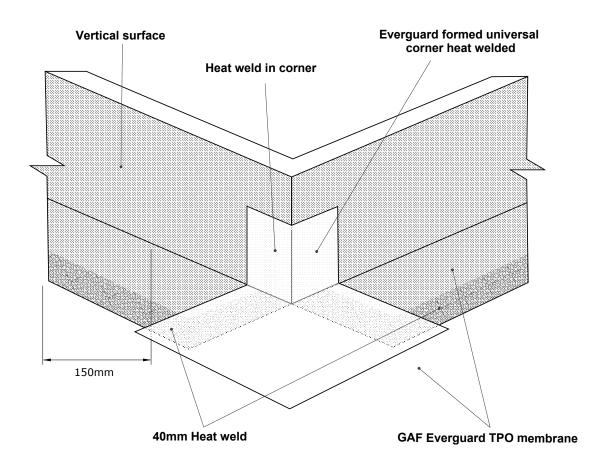


GAF	DRAWING: FLUTED OUTSIDE CORNER	DATE: 10 JUNE 2014	detail: 405	
	DETAILS FOR: EVERGUARD TPO ROOFING	SCALE: N/A		BRANZ Appraised Apprasal No 529



CONSTRUCTION DETAILS FOR 'GAF TPO SINGLE-PLY ROOFING SYSTEM'

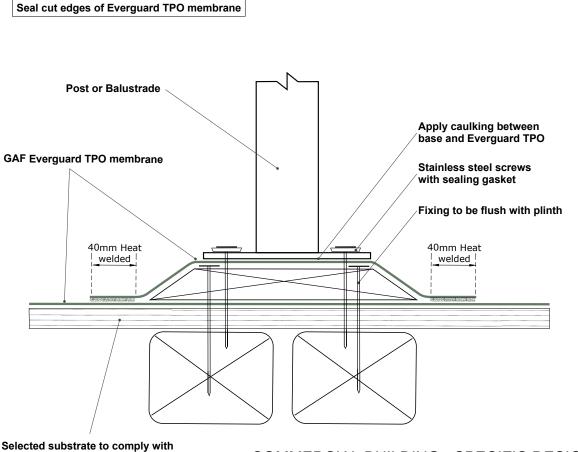
Seal cut edges of Everguard TPO membrane



GAF	DRAWING: WALL / CURB OUTSIDE CORNER	DATE: 10 JUNE 2014	detail: 406	
	DETAILS FOR: EVERGUARD TPO ROOFING	SCALE: N/A		BRANZ Appraised Apprasal No 529



CONSTRUCTION DETAILS FOR 'GAF TPO SINGLE-PLY ROOFING SYSTEM'



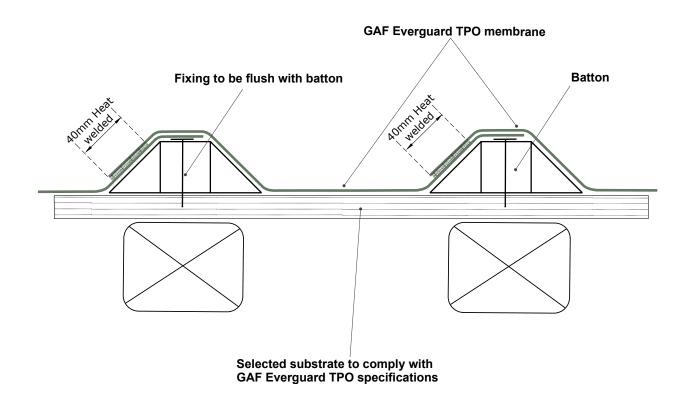
Selected substrate to comply with GAF Everguard TPO specifications

COMMERCIAL BUILDING - SPECIFIC DESIGN

GAF	DRAWING: POST OR BALUSTRADE BASE	DATE: 6 DEC 2019	detail: 407	
	DETAILS FOR: EVERGUARD TPO ROOFING	SCALE: N/A		BRANZ Appraised Apprasal No 529

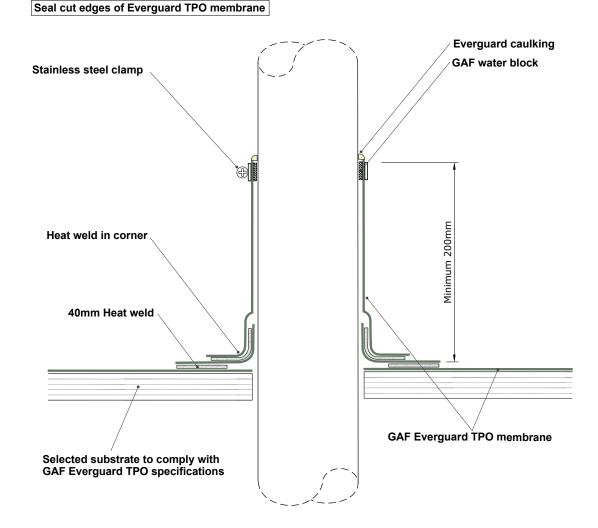






GAF	DRAWING: DRESSED BATTEN	DATE: 10 JUNE 2014	detail: 408	
	DETAILS FOR: EVERGUARD TPO ROOFING	SCALE: N/A		BRANZ Appraised Apprasal No 529



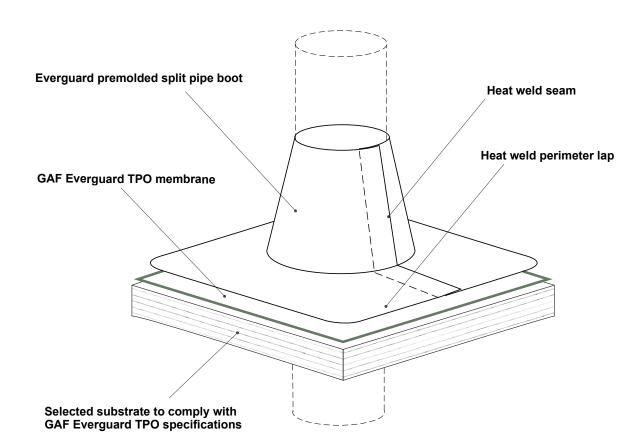


CAE	DRAWING: PIPE PENETRATION	DATE: 10 JUNE 2014	detail: 501	
GAP	DETAILS FOR: EVERGUARD TPO ROOFING	SCALE: N/A		BRANZ Appraised Apprasal No 529



CONSTRUCTION DETAILS FOR 'GAF TPO SINGLE-PLY ROOFING SYSTEM'

Seal cut edges of Everguard TPO membrane

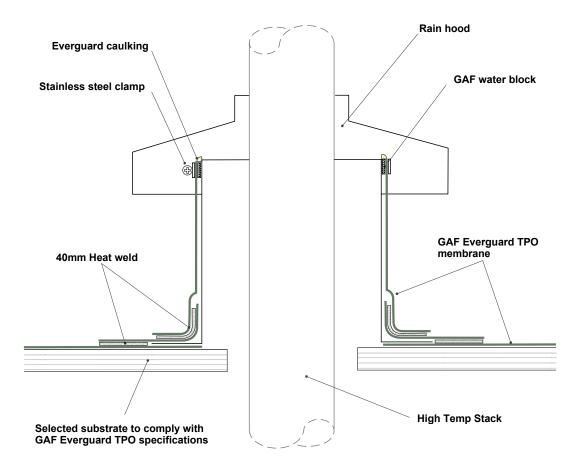


GAF	DRAWING: SPLIT PIPE BOOT	DATE: 10 JUNE 2014	DETAIL: 502	
	DETAILS FOR: EVERGUARD TPO ROOFING	SCALE: N/A		BRANZ Appraised Apprasal No 529



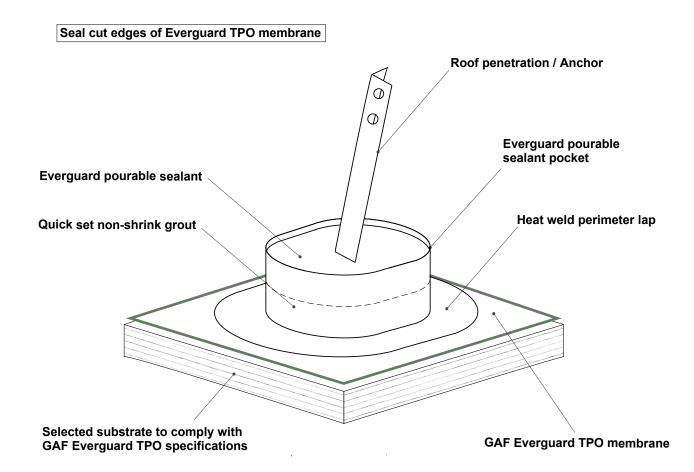
CONSTRUCTION DETAILS FOR 'GAF TPO SINGLE-PLY ROOFING SYSTEM'

Seal cut edges of Everguard TPO membrane



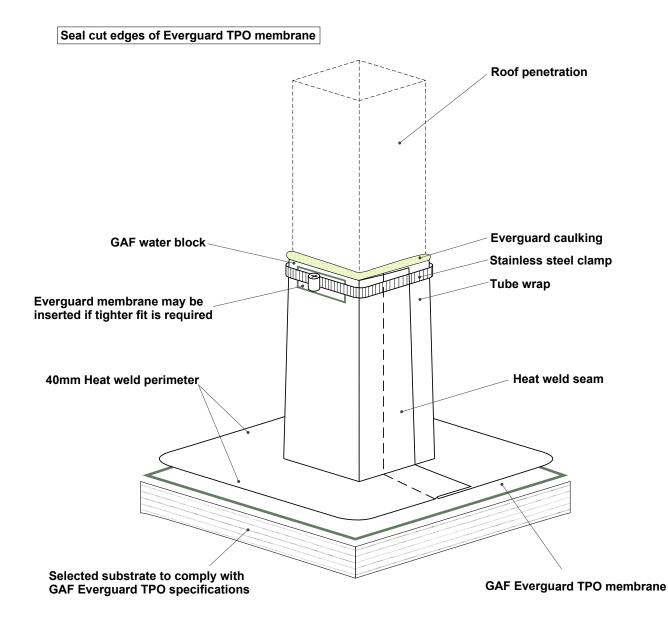
GAF	DRAWING: HIGH TEMP STACK FLASHING	DATE: 10 JUNE 2014	detail: 503	
	DETAILS FOR: EVERGUARD TPO ROOFING	SCALE: N/A		BRANZ Appraised Apprasal No 529





GAF	DRAWING: POURABLE SEALANT POCKET	DATE: 10 JUNE 2014	DETAIL: 504	
	DETAILS FOR: EVERGUARD TPO ROOFING	SCALE: N/A		BRANZ Appraised Apprasal No 529

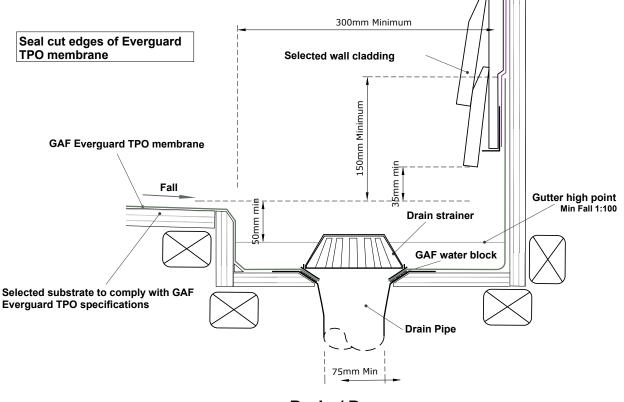




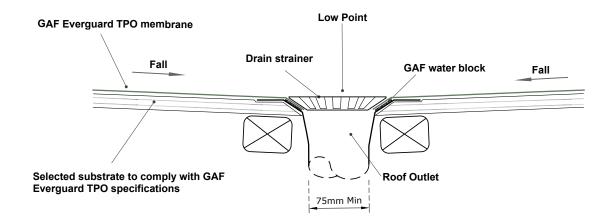
GAF	DRAWING: SQUARE TUBE WRAP	DATE: 10 JUNE 2014	detail: 505	
	DETAILS FOR: EVERGUARD TPO ROOFING	SCALE: N/A		BRANZ Appraised Apprasal No 529



CONSTRUCTION DETAILS FOR 'GAF TPO SINGLE-PLY ROOFING SYSTEM'



Drain / Dropper

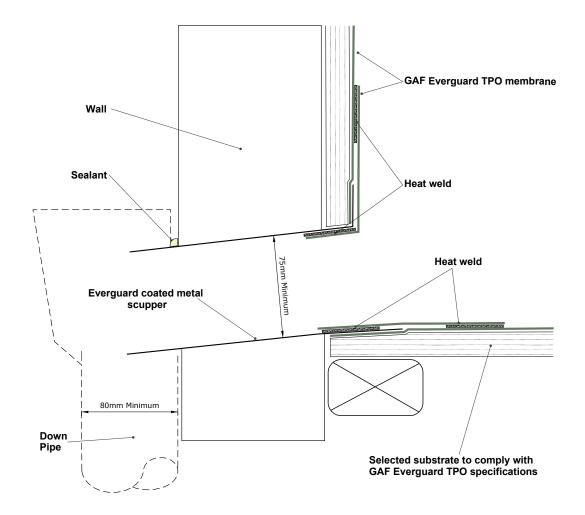


Low Point Outlet

GAE	DRAWING: DRAIN / DROPPER	DATE: 10 JUNE 2014	DETAIL: 506	
GAP	DETAILS FOR: EVERGUARD TPO ROOFING	SCALE: N/A		BRANZ Appraised Apprasal No 529

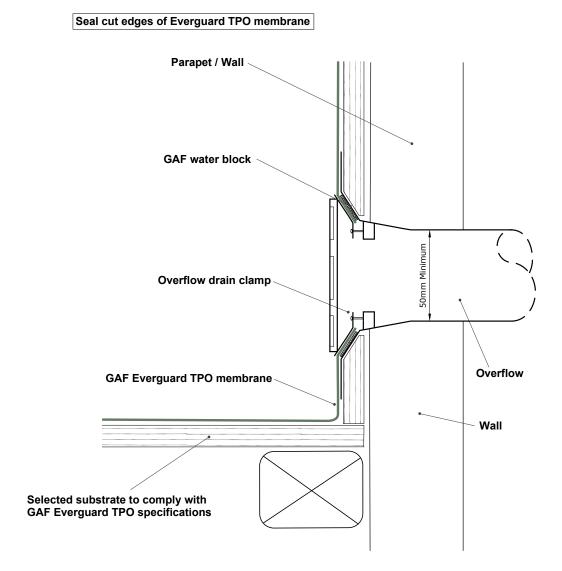






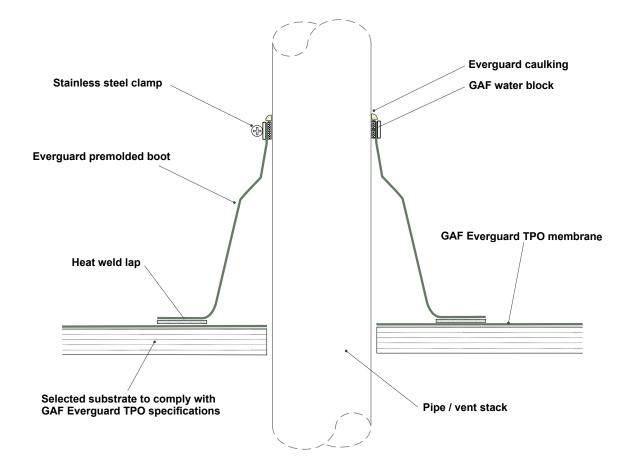
GAE	DRAWING: COATED METAL SCRUPPER	DATE: 10 JUNE 2014	DETAIL: 507	
GAP	DETAILS FOR: EVERGUARD TPO ROOFING	SCALE: N/A		BRANZ Appraised Apprasal No 529





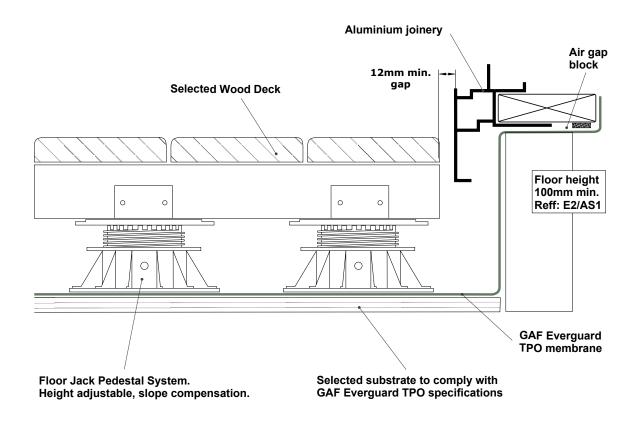
CAE	DRAWING: OVERFLOW PARAPET DRAIN	DATE: 10 JUNE 2014	DETAIL: 508	
GAP	DETAILS FOR: EVERGUARD TPO ROOFING	SCALE: N/A		BRANZ Appraised Apprasal No 529





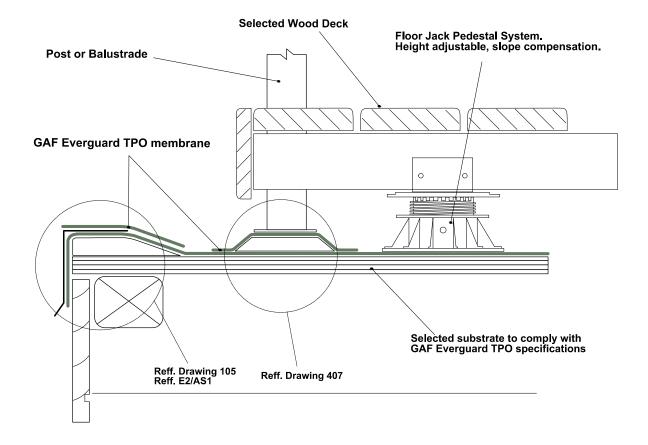
GAE	DRAWING: PREMOLDED PIPE BOOT	DATE: 10 JUNE 2014	DETAIL: 509	
GAP	DETAILS FOR: EVERGUARD TPO ROOFING	SCALE: N/A		BRANZ Appraised Apprasal No 529





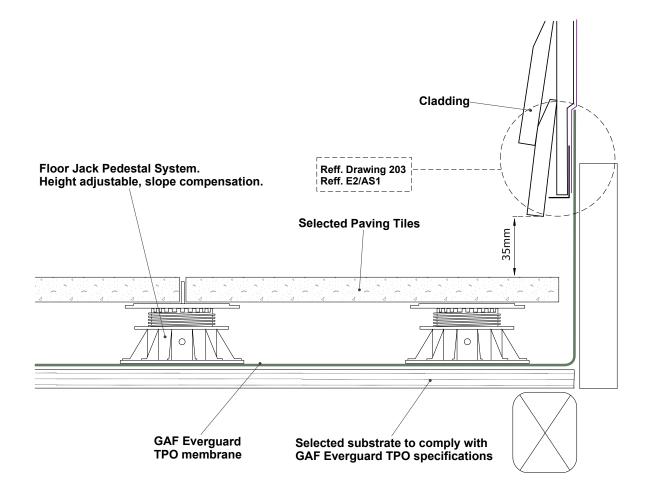
GAF	DRAWING: FLOOR JACK PEDESTAL - DECK	DATE: 10 JUNE 2014	detail: 601	
	DETAILS FOR: EVERGUARD TPO ROOFING	SCALE: N/A		BRANZ Appraised Apprasal No 529





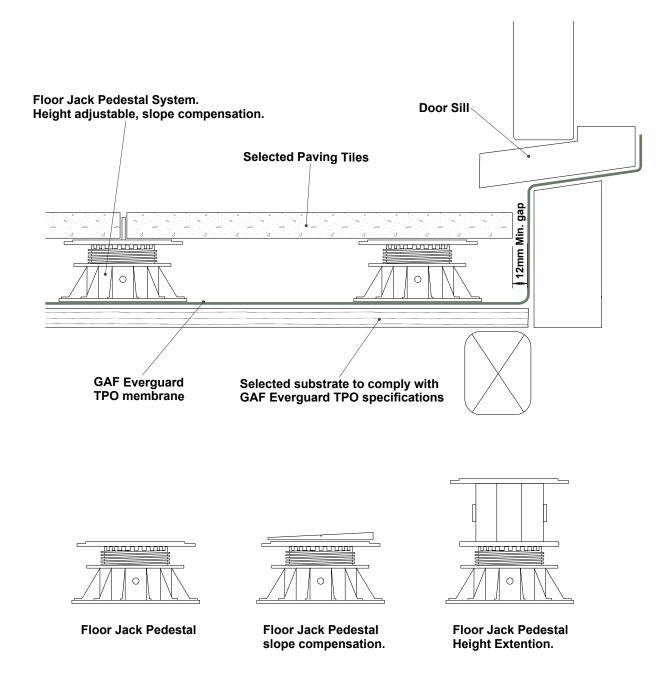
GAF	DRAWING: FLOOR JACK PEDESTAL - TERMINATION	DATE: 10 JUNE 2014	DETAIL: 602	
	DETAILS FOR: EVERGUARD TPO ROOFING	SCALE: N/A		BRANZ Appraised Apprasal No 529





GAF	DRAWING: FLOOR JACK PEDESTAL - PAVING TILES	DATE: 10 JUNE 2014	detail: 603	
	DETAILS FOR: EVERGUARD TPO ROOFING	SCALE: N/A		BRANZ Appraised Apprasal No 529





GAF	DRAWING: FLOOR JACK PEDESTAL - DOOR SILL	DATE: 10 JUNE 2014	detail: 604	
	DETAILS FOR: EVERGUARD TPO ROOFING	SCALE: N/A		BRANZ Appraised Apprasal No 529