

Thursday, 29th July, 2018

GAF Roofing



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.





# 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.

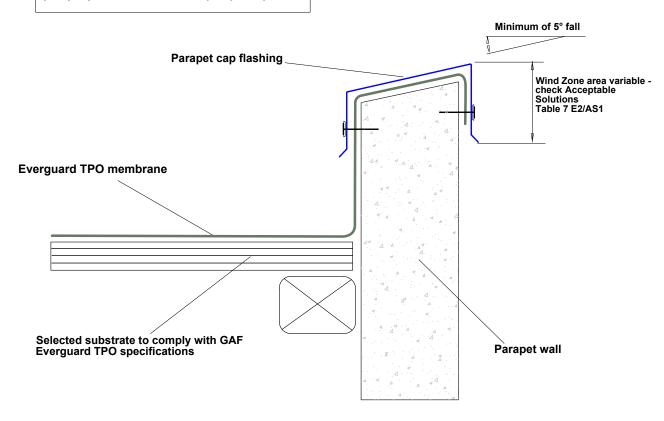
> For technical assistance call 0800 423355 or visit www.gafroofing.co.nz

www.gafroofing.co.nz



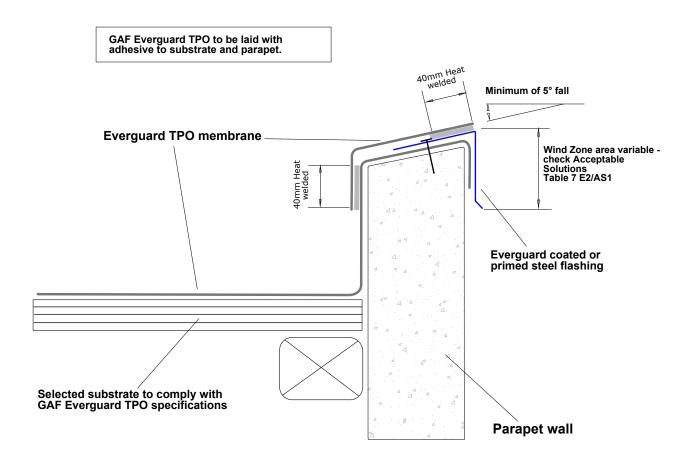
CONSTRUCTION DETAILS FOR 'GAF TPO SINGLE-PLY ROOFING SYSTEM'

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



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

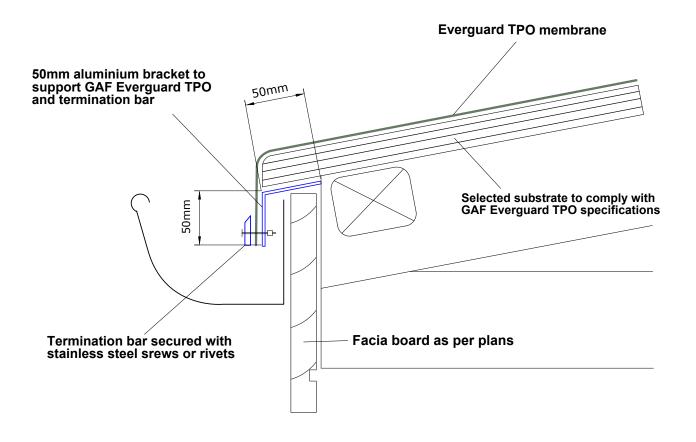




GAE	DRAWING: PARAPET WALL ALTERNATIVE	DATE: 10 JUNE 2014	DETAIL: 102	*
GAF	DETAILS FOR: EVERGUARD TPO ROOFING	SCALE: N/A		BRANZ Appraised Apprasal No 529

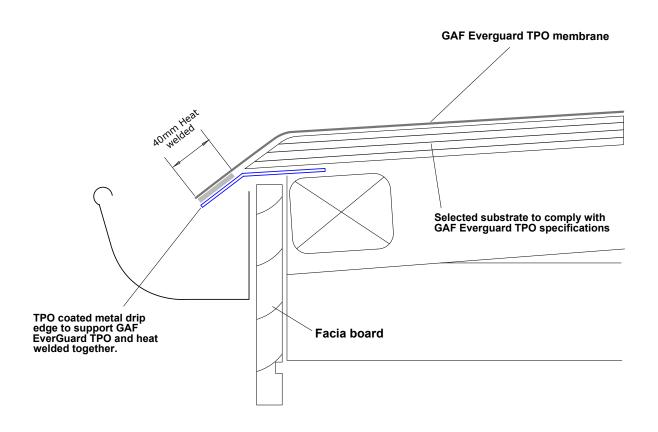
www.gafroofing.co.nz





CAE	DRIP EDGE ALTERNATIVE	DATE: 10 JUNE 2014	DETAIL: 103	M
GAF	DETAILS FOR: EVERGUARD TPO ROOFING	SCALE: N/A		BRANZ Appraised Apprasal No 529

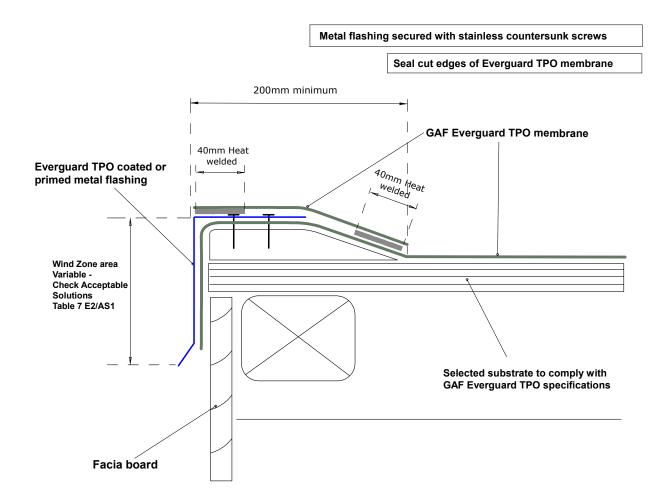




GAE	DRIP EDGE SYSTEM	DATE: 10 JUNE 2014	DETAIL: 104	*
GAF	DETAILS FOR: EVERGUARD TPO ROOFING	SCALE: N/A		BRANZ Appraised Apprasal No 529

www.gafroofing.co.nz

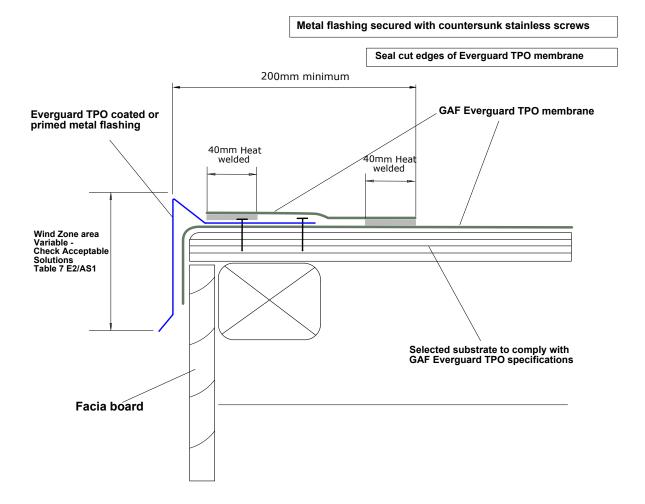




CAE	DRAWING: BARGE FLASHING SYSTEM	DATE: 10 JUNE 2014	DETAIL: 105	**
GAF	DETAILS FOR: EVERGUARD TPO ROOFING	SCALE: N/A		BRANZ Appraised Apprasal No 529



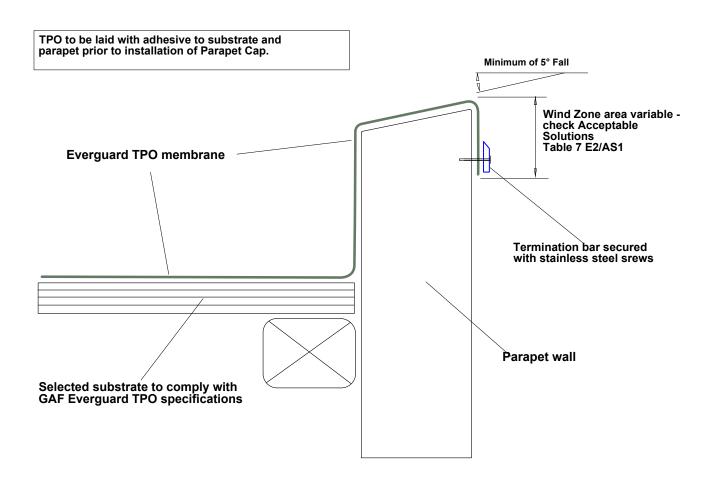




CAE	DRAWING: BARGE FLASHING ALT	DATE: 10 JUNE 2014	DETAIL: 106	**
GAF	DETAILS FOR: EVERGUARD TPO ROOFING	SCALE: N/A		BRANZ Appraised Apprasal No 529



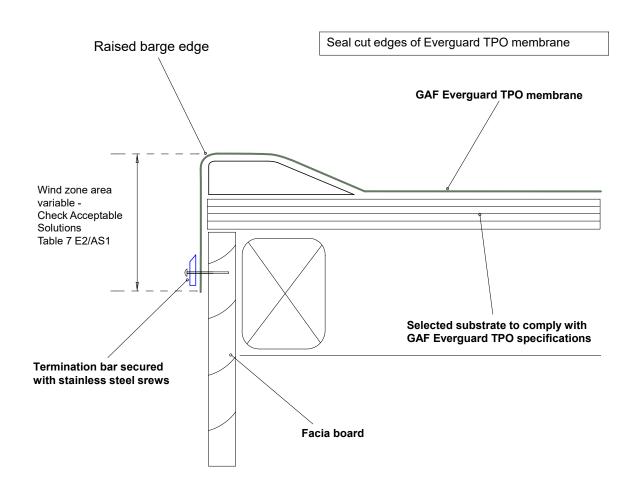




CAE	DRAWING: PARAPET TERMINATION BAR	DATE: 10 JUNE 2014	DETAIL: 107	*
GAF	DETAILS FOR: EVERGUARD TPO ROOFING	SCALE: N/A		BRANZ Appraised Apprasal No 529







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



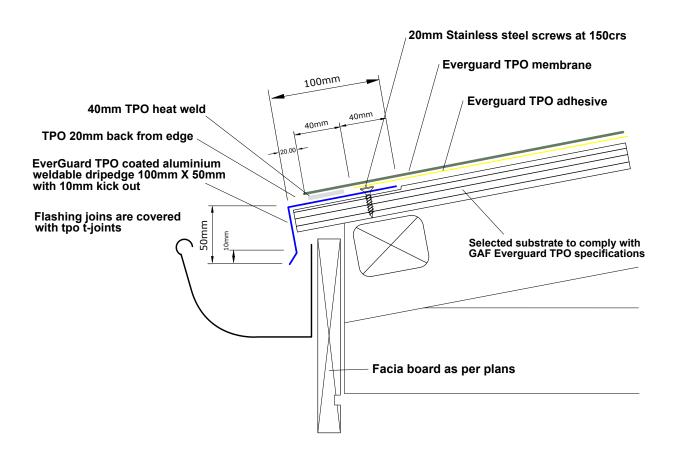


# Seal cut edges of Everguard TPO membrane **GAF Everguard TPO membrane** Raised barge edge 40mm Weld Wind Zone area Variable -Check Acceptable Solutions Table 7 E2/AS1 Selected substrate to comply with GAF Everguard TPO specifications Everguard TPO wrapped barge termination batton

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

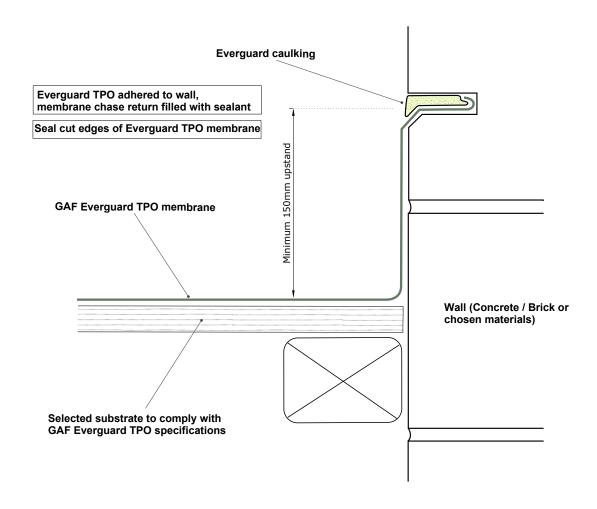






GAE	DRIP EDGE FLASHING	DATE: 01 MARCH 2019	DETAIL: 110	M
GAF	DETAILS FOR: EVERGUARD TPO ROOFING	SCALE: NTS		BRANZ Appraised Apprasal No 529

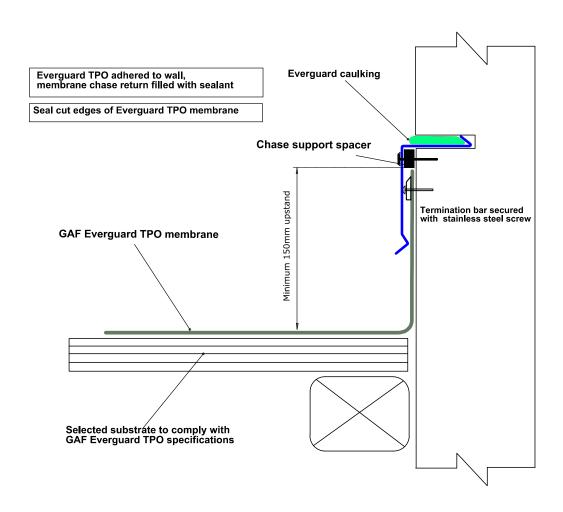




GAE	DRAWING: CHASE FLASHING SYSTEM	DATE: 10 JUNE 2014	DETAIL: 201	M
GAF	DETAILS FOR: EVERGUARD TPO ROOFING	SCALE: N/A		BRANZ Appraised Apprasal No 529

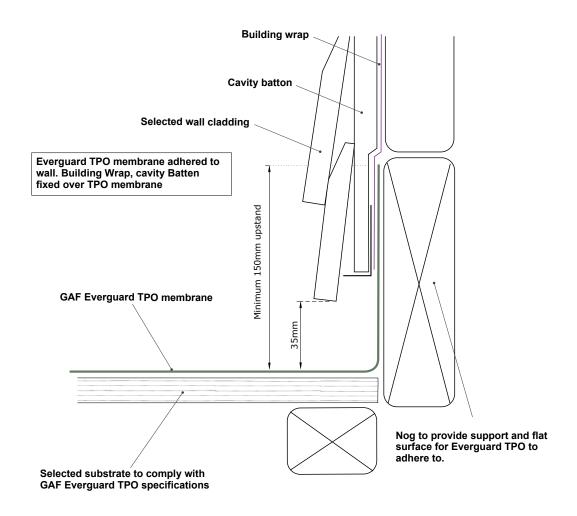






CAE	DRAWING: CHASE FLASHING SYSTEM	DATE: 10 JUNE 2014	DETAIL: 202	*
GAF	DETAILS FOR: EVERGUARD TPO ROOFING	SCALE: N/A		BRANZ Appraised Apprasal No 529

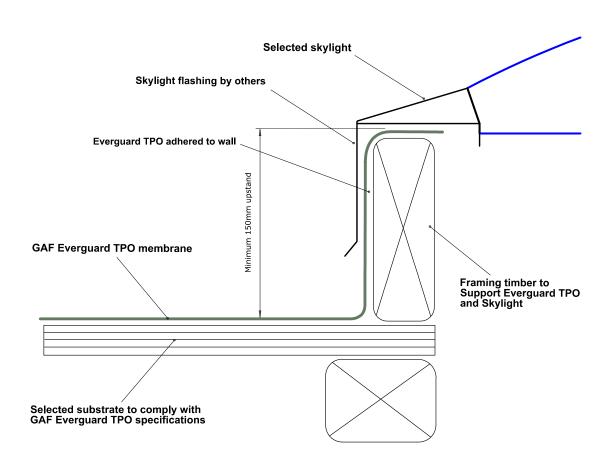




GAF	DRAWING: TRANSITION - WALL	DATE: 10 JUNE 2014	DETAIL: 203	*
	DETAILS FOR: EVERGUARD TPO ROOFING	SCALE: N/A		BRANZ Appraised Apprasal No 529

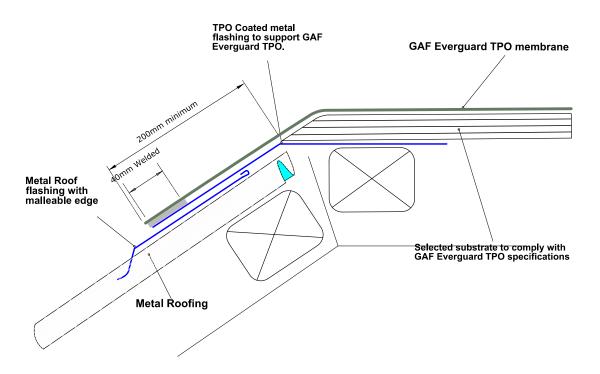






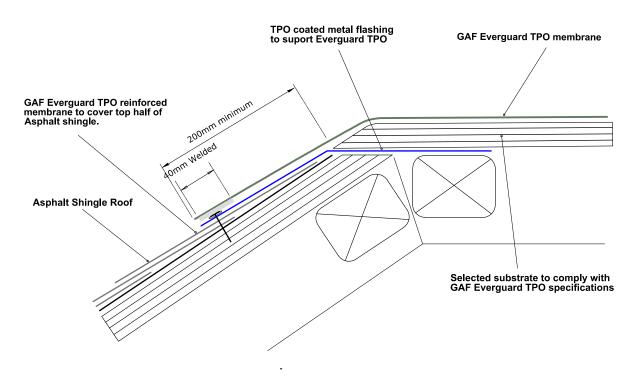
GAF	DRAWING: SKYLIGHT FLASHING	DATE: 10 JUNE 2014	DETAIL: 204	*
	DETAILS FOR: EVERGUARD TPO ROOFING	SCALE: N/A		BRANZ Appraised Apprasal No 529





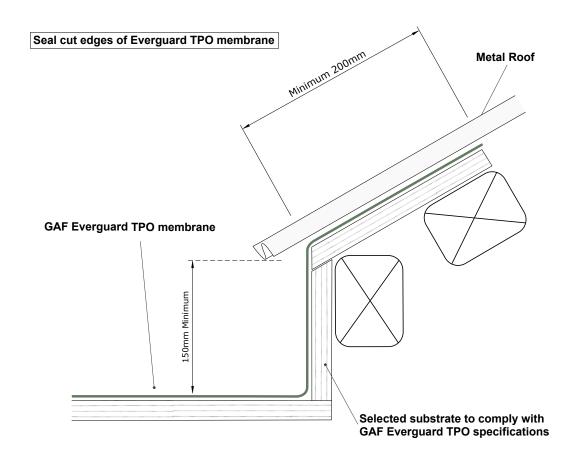
GAF	DRAWING: TRANSITION - METAL ROOF	DATE: 10 JUNE 2014	DETAIL: 301	M
	DETAILS FOR: EVERGUARD TPO ROOFING	SCALE: N/A		BRANZ Appraised Apprasal No 529





GAE	DRAWING: TRANSITION - SHINGLE ROOF	DATE: 10 JUNE 2014	DETAIL: 302	**
GAF	DETAILS FOR: EVERGUARD TPO ROOFING	SCALE: N/A		BRANZ Appraised Apprasal No 529



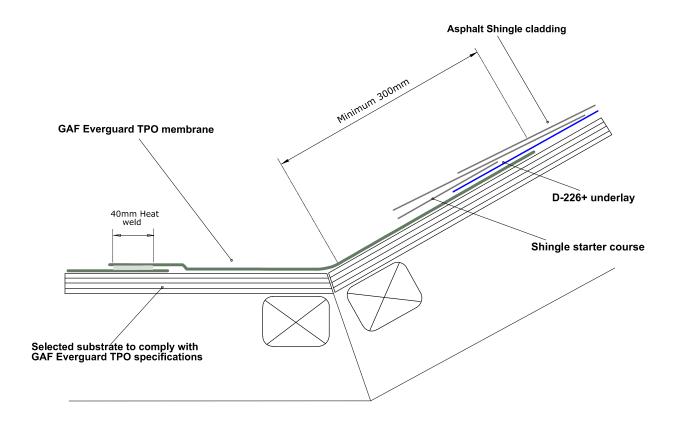


CAE	DRAWING: METAL ROOF TO TPO	DATE: 10 JUNE 2014	DETAIL: 303	*
GAF	DETAILS FOR: EVERGUARD TPO ROOFING	SCALE: N/A		BRANZ Appraised Apprasal No 529



www.gafroofing.co.nz

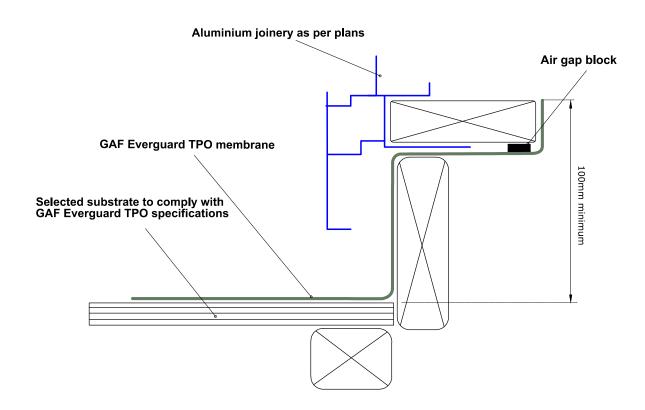




CAE	DRAWING: SHINGLE ROOF TO TPO	DATE: 10 JUNE 2014	DETAIL: 304	**
GAF	DETAILS FOR: EVERGUARD TPO ROOFING	SCALE: N/A		BRANZ Appraised Apprasal No 529

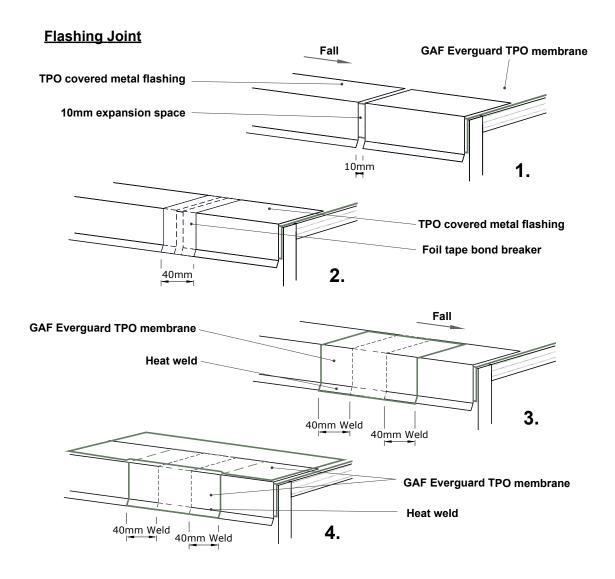
www.gafroofing.co.nz



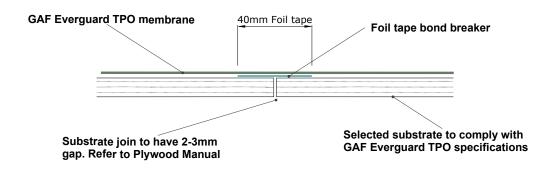


GAF	DRAWING: TPO TO ALUMINIUM JOINERY	DATE: 10 JUNE 2014	DETAIL: 305	*
	DETAILS FOR: EVERGUARD TPO ROOFING	SCALE: N/A		BRANZ Appraised Apprasal No 529





# **Substrate Joint**

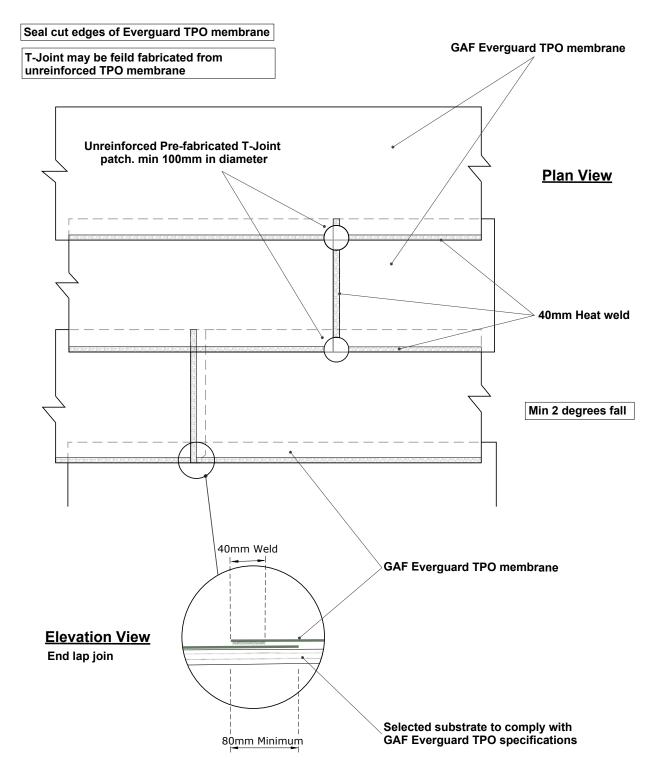


GAF	DRAWING: SUBSTRATE / FLASHING JOINT	DATE: 10 JUNE 2014	DETAIL: 306	*
	DETAILS FOR: EVERGUARD TPO ROOFING	SCALE: N/A		BRANZ Appraised Apprasal No 529

www.gafroofing.co.nz



GAF Roofing



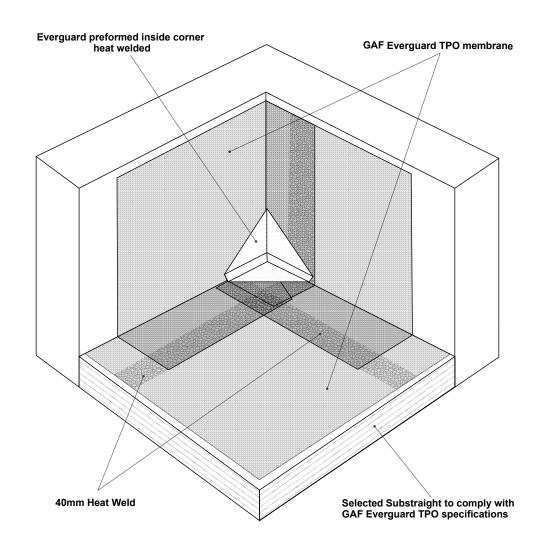
GAF	DRAWING: T-JOINT / END JOINT DETAIL	DATE: 10 JUNE 2014	DETAIL: 401	*4
	DETAILS FOR: EVERGUARD TPO ROOFING	SCALE: N/A		BRANZ Appraised Apprasal No 529



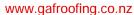


Seal cut edges of Everguard TPO membrane

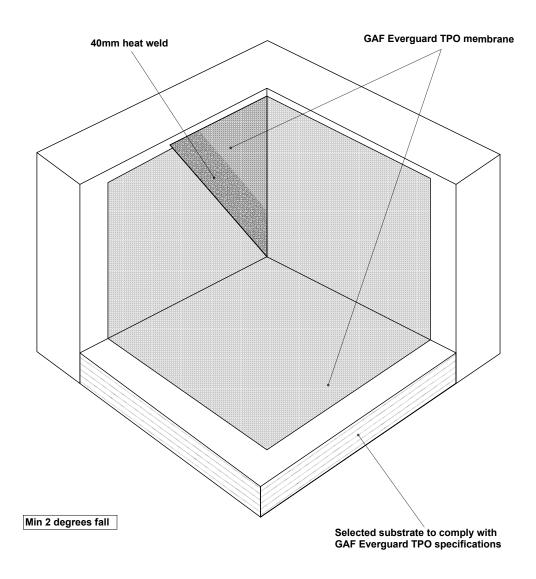
Min 2 degrees fall



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





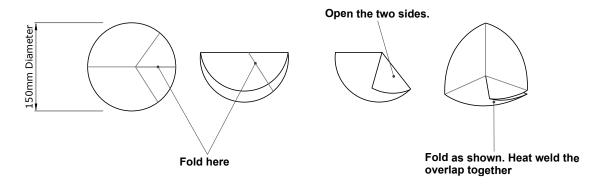


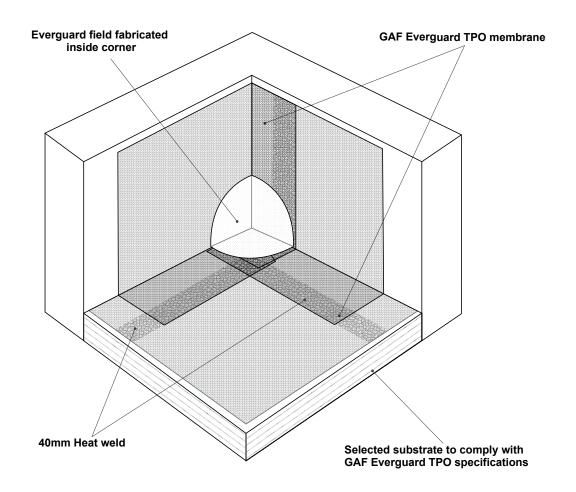
GAF	DRAWING: FOLDED INSIDE CORNER	DATE: 10 JUNE 2014	DETAIL: 403	**
	DETAILS FOR: EVERGUARD TPO ROOFING	SCALE: N/A		BRANZ Appraised Apprasal No 529





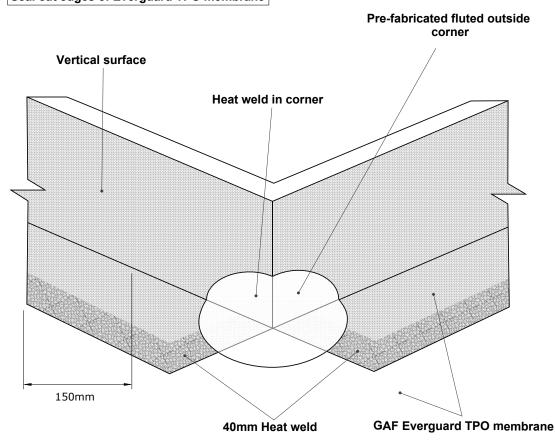
#### **Everguard TPO field fabricated cut** from non-reinforced membrane





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

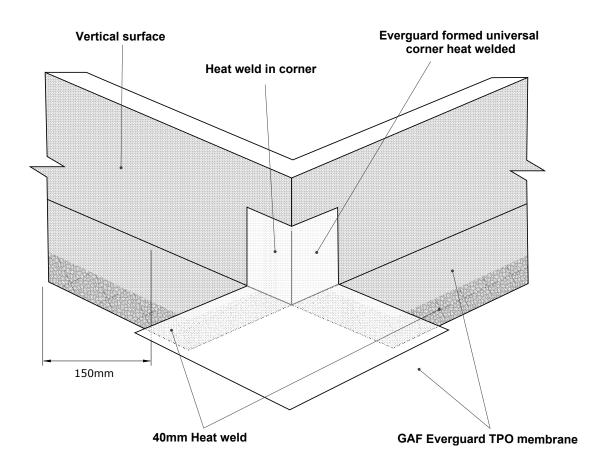




CAE	DRAWING: FLUTED OUTSIDE CORNER	DATE: 10 JUNE 2014	DETAIL: 405	**
GAF	DETAILS FOR: EVERGUARD TPO ROOFING	SCALE: N/A		BRANZ Appraised Apprasal No 529



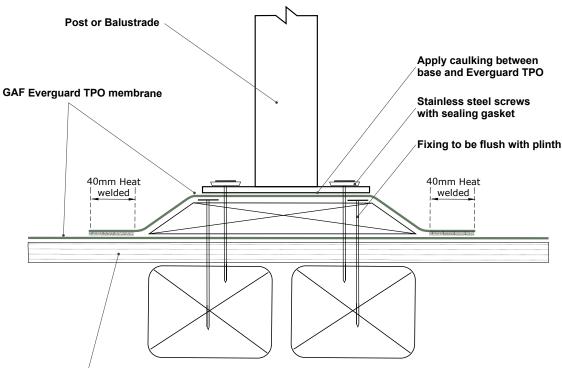




CAE	DRAWING: WALL / CURB OUTSIDE CORNER	DATE: 10 JUNE 2014	DETAIL: 406	**
GAF	DETAILS FOR: EVERGUARD TPO ROOFING	SCALE: N/A		BRANZ Appraised Apprasal No 529



#### Seal cut edges of Everguard TPO membrane

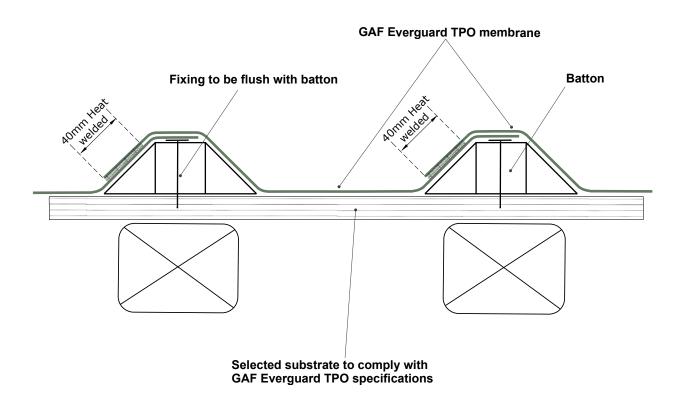


Selected substrate to comply with **GAF Everguard TPO specifications** 

CAE	DRAWING: POST OR BALUSTRADE BASE	DATE: 10 JUNE 2014	DETAIL: 407	M
GAF	DETAILS FOR: EVERGUARD TPO ROOFING	SCALE: N/A		BRANZ Appraised Apprasal No 529

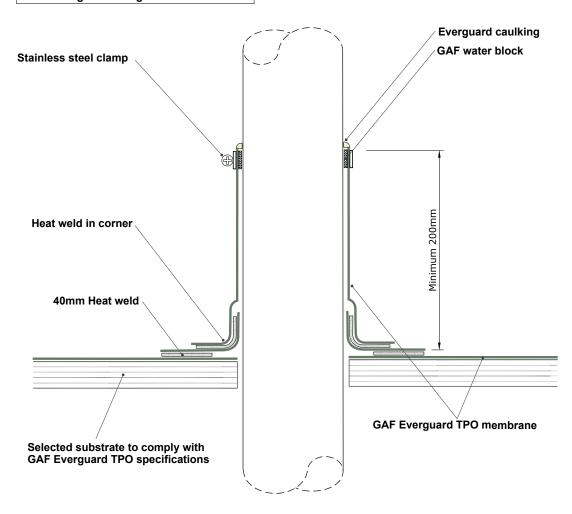






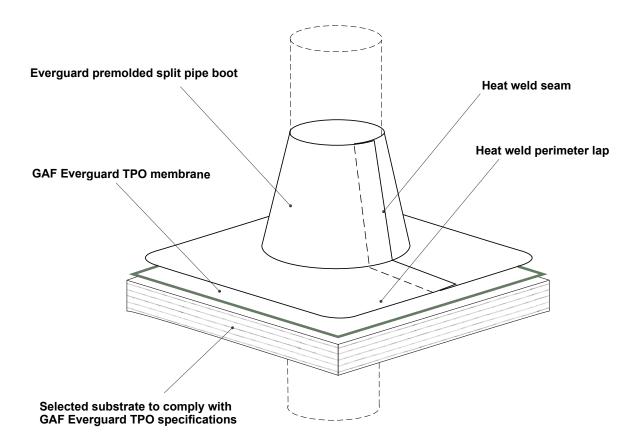
CAE	DRESSED BATTEN	DATE: 10 JUNE 2014	DETAIL: 408	*
GAF	DETAILS FOR: EVERGUARD TPO ROOFING	SCALE: N/A		BRANZ Appraised Apprasal No 529





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

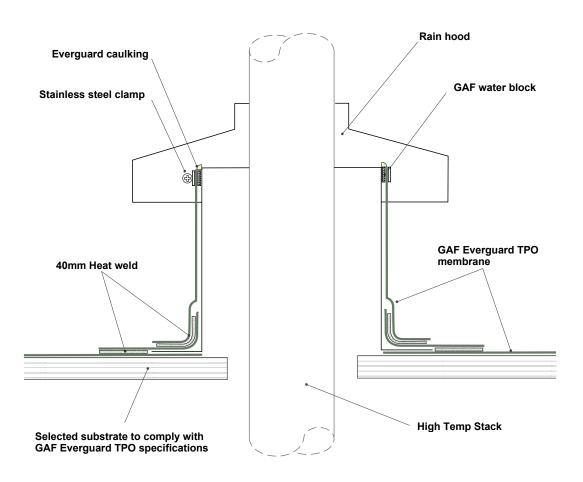




CAE	DRAWING: SPLIT PIPE BOOT	DATE: 10 JUNE 2014	DETAIL: 502	*
GAF	DETAILS FOR: EVERGUARD TPO ROOFING	SCALE: N/A		BRANZ Appraised Apprasal No 529



GAF Roofing



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





# Seal cut edges of Everguard TPO membrane Roof penetration / Anchor 0 **Everguard pourable** sealant pocket **Everguard pourable sealant** Heat weld perimeter lap Quick set non-shrink grout

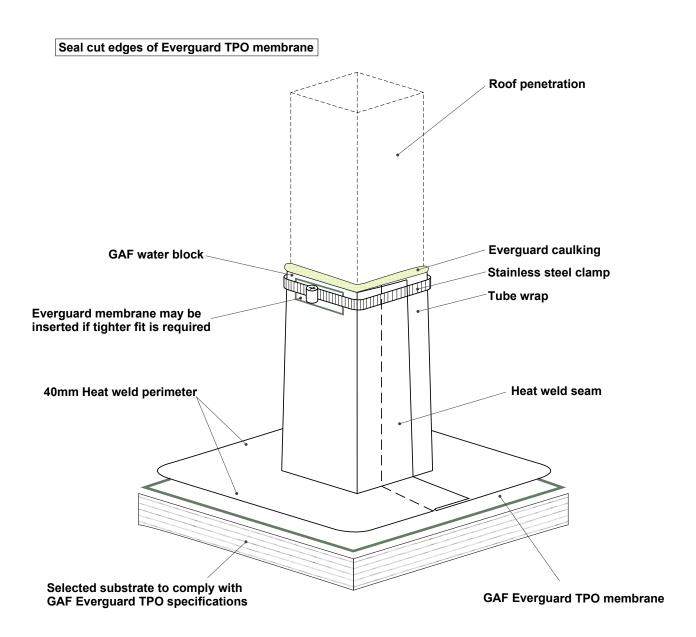
CAE	DRAWING: POURABLE SEALANT POCKET	DATE: 10 JUNE 2014	DETAIL: 504	*
GAF	DETAILS FOR: EVERGUARD TPO ROOFING	SCALE: N/A		BRANZ Appraised Apprasal No 529

**GAF Everguard TPO membrane** 

Selected substrate to comply with

**GAF Everguard TPO specifications** 



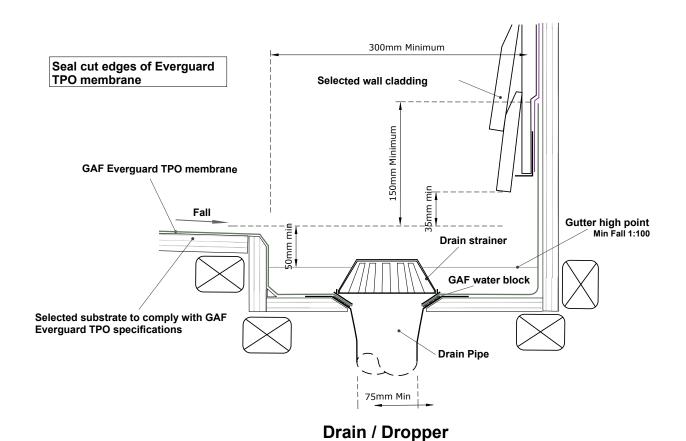


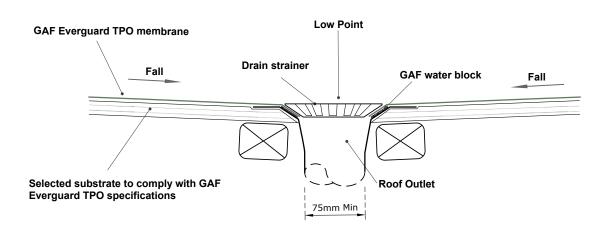
CAE	DRAWING: SQUARE TUBE WRAP	DATE: 10 JUNE 2014	DETAIL: 505	M
GAF	DETAILS FOR: EVERGUARD TPO ROOFING	SCALE: N/A		BRANZ Appraised Apprasal No 529

www.gafroofing.co.nz

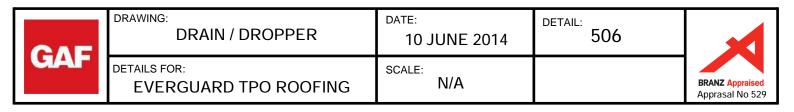


CONSTRUCTION DETAILS FOR 'GAF TPO SINGLE-PLY ROOFING SYSTEM'

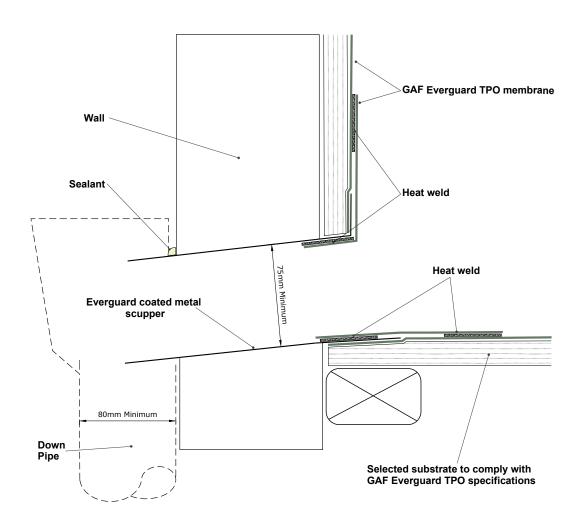




# **Low Point Outlet**

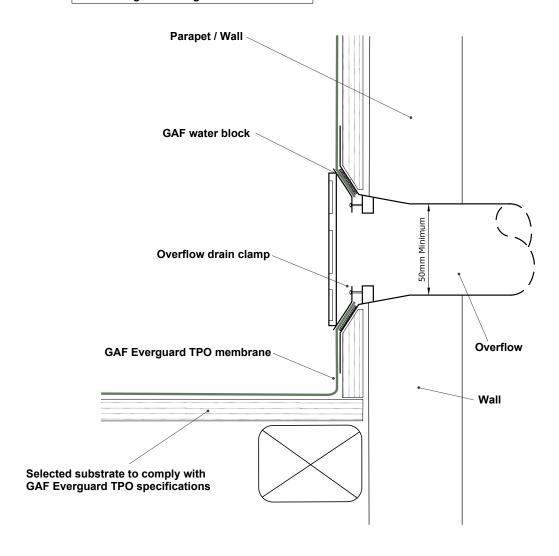






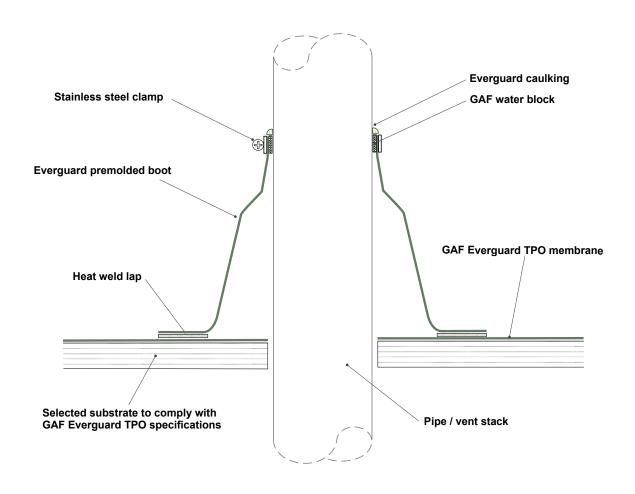
CAE	DRAWING: COATED METAL SCRUPPER	DATE: 10 JUNE 2014	DETAIL: 507	×
GAF	DETAILS FOR: EVERGUARD TPO ROOFING	SCALE: N/A		BRANZ Appraised Apprasal No 529





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

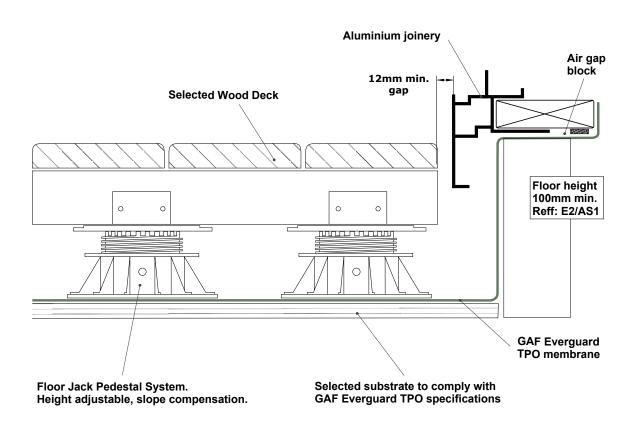




CAE	DRAWING: PREMOLDED PIPE BOOT	DATE: 10 JUNE 2014	DETAIL: 509	*
GAF	DETAILS FOR: EVERGUARD TPO ROOFING	SCALE: N/A		BRANZ Appraised Apprasal No 529



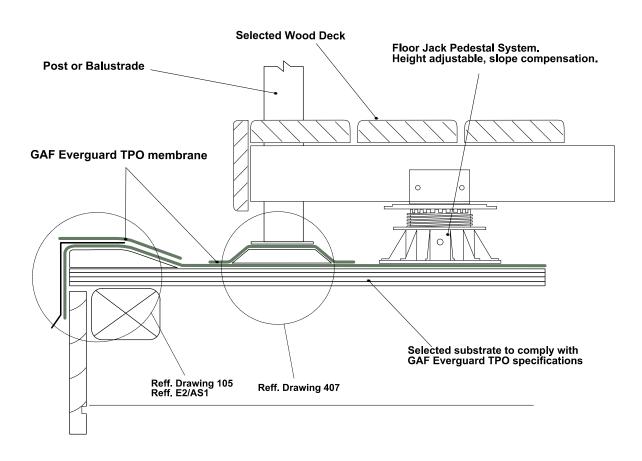




GAF	DRAWING: FLOOR JACK PEDESTAL - DECK	DATE: 10 JUNE 2014	DETAIL: 601	*
	DETAILS FOR: EVERGUARD TPO ROOFING	SCALE: N/A		BRANZ Appraised Apprasal No 529



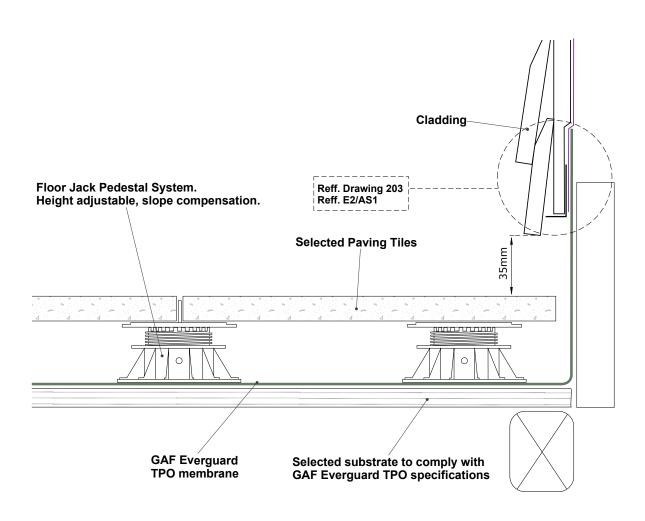
GAF Roofing



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

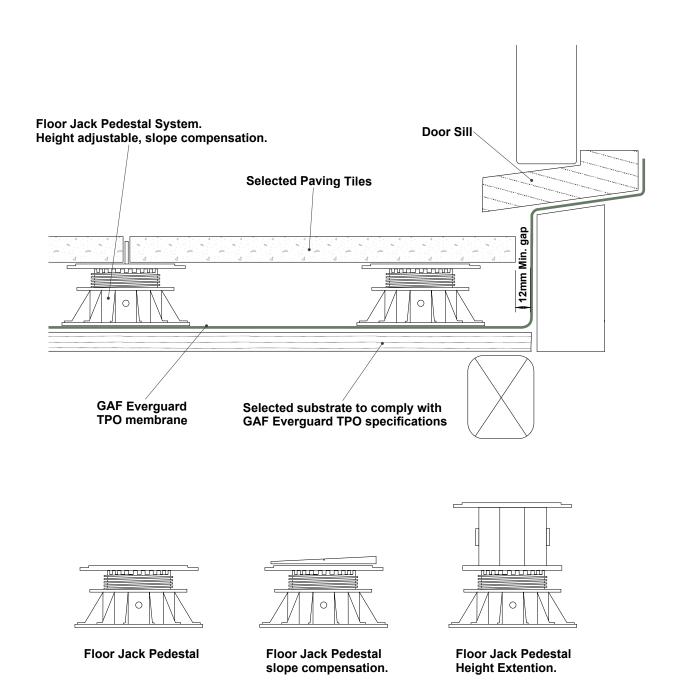
www.gafroofing.co.nz





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





GAF	DOOR SILL	DATE: 10 JUNE 2014	DETAIL: 604	M
	DETAILS FOR: EVERGUARD TPO ROOFING	SCALE: N/A		BRANZ Appraised Apprasal No 529