

Thursday, 5th July, 2018

CONSTRUCTION DETAILS FOR 'GAF ASPHALT SHINGLE ROOFING SYSTEM' BRANZ.529 2017

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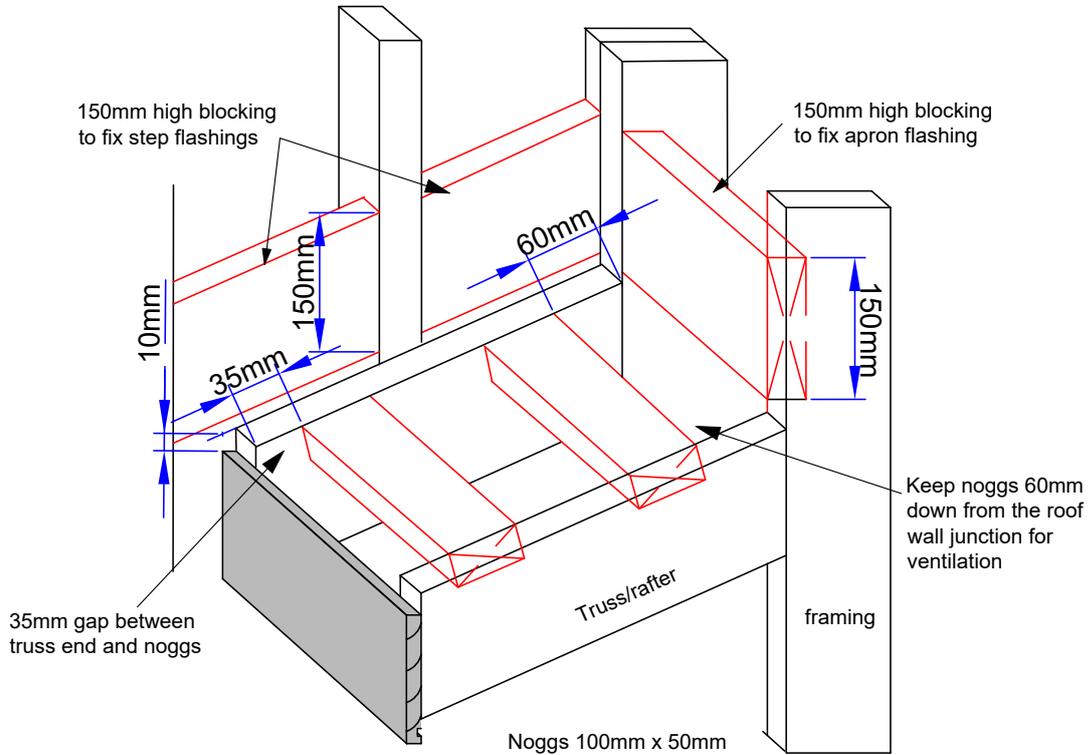
THESE DETAILS HAVE BEEN COLLATED FOR THE BRANZ APPRAISAL USE ONLY. THEY ARE TO SERVE AS A GUIDELINE FOR CORRECT DETAILING OF 'GAF ASPHALT SHINGLE ROOFING SYSTEM'.

WHERE PRODUCT IS TO BE USED IT IS THE DESIGNERS REAPONSIBILITY TO ENSURE THAT THE CORRECT DETAILS ARE SHOWN ON THE PLANS AND SPECIFICATIONS.

ROOFING LOGISTICS NZ LTD. WILL NOT BE HELD RESPONSIBLE OR LIABLE FOR ANY DAMAGES TO PROPERTY OR PRODUCT INSTALLED IN A MANNER OTHER THAN AS DIRECTED BY A TRAINED AND APPROVED APPLICATOR.

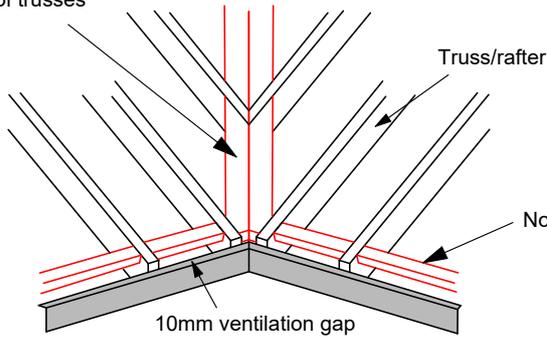
**For technical assistance call 0800 423355
or visit www.gafroofing.co.nz**

GAF Asphalt shingle roofing technical documents
Builders Cross Section

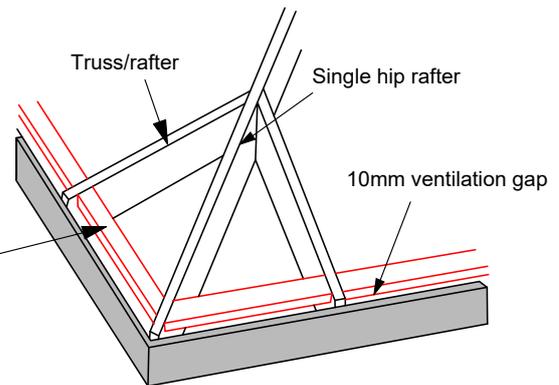


Wall roof intersection

Valley noggs flush with top of trusses

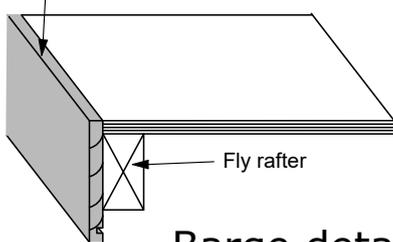


Valley detail

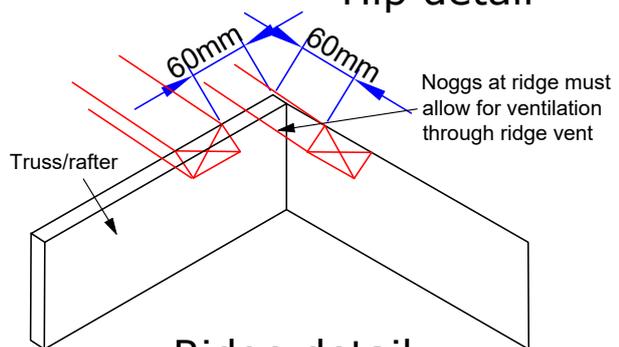


Hip detail

Facia to be flush with plywood substrate

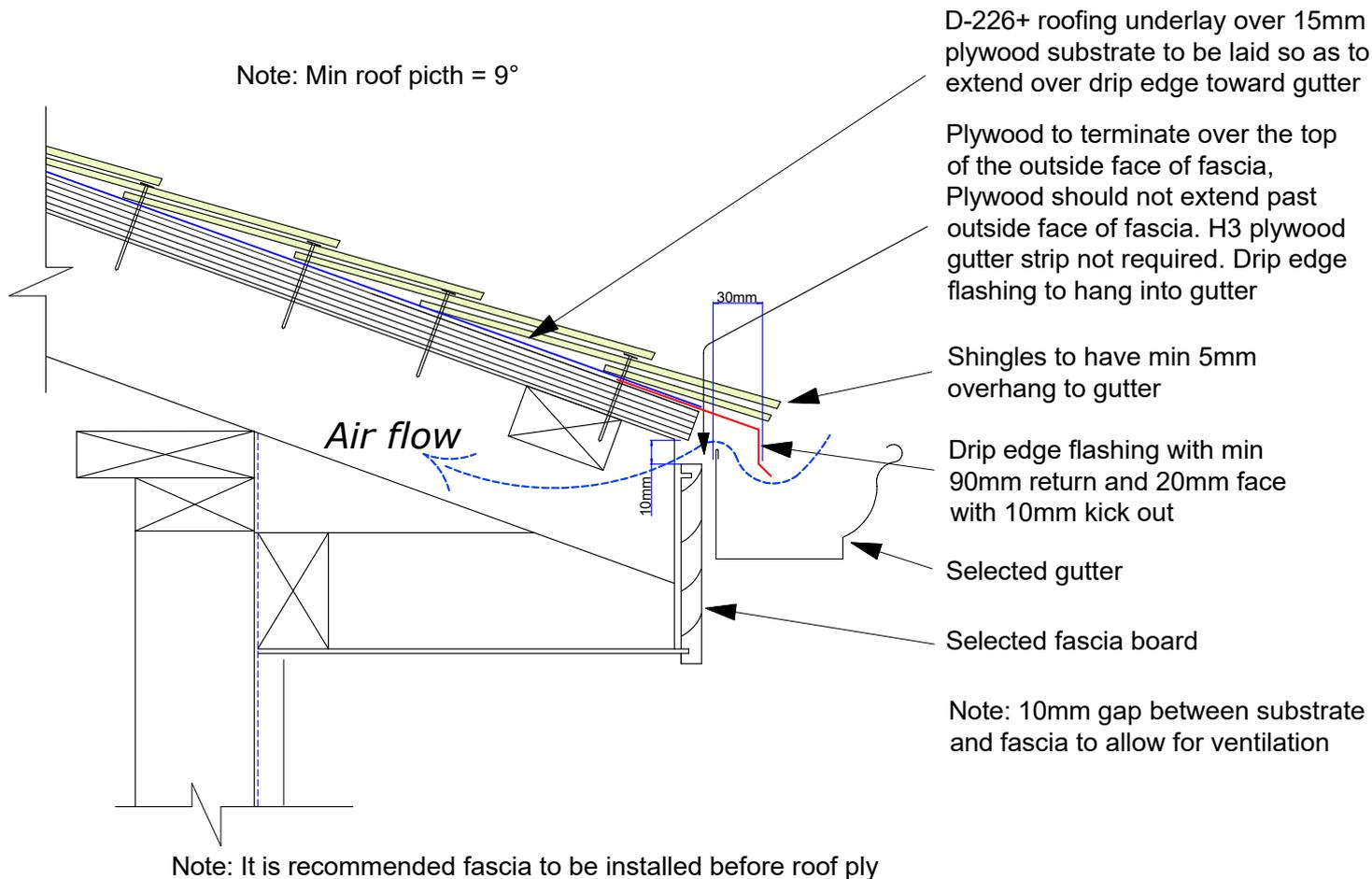


Barge detail



Ridge detail

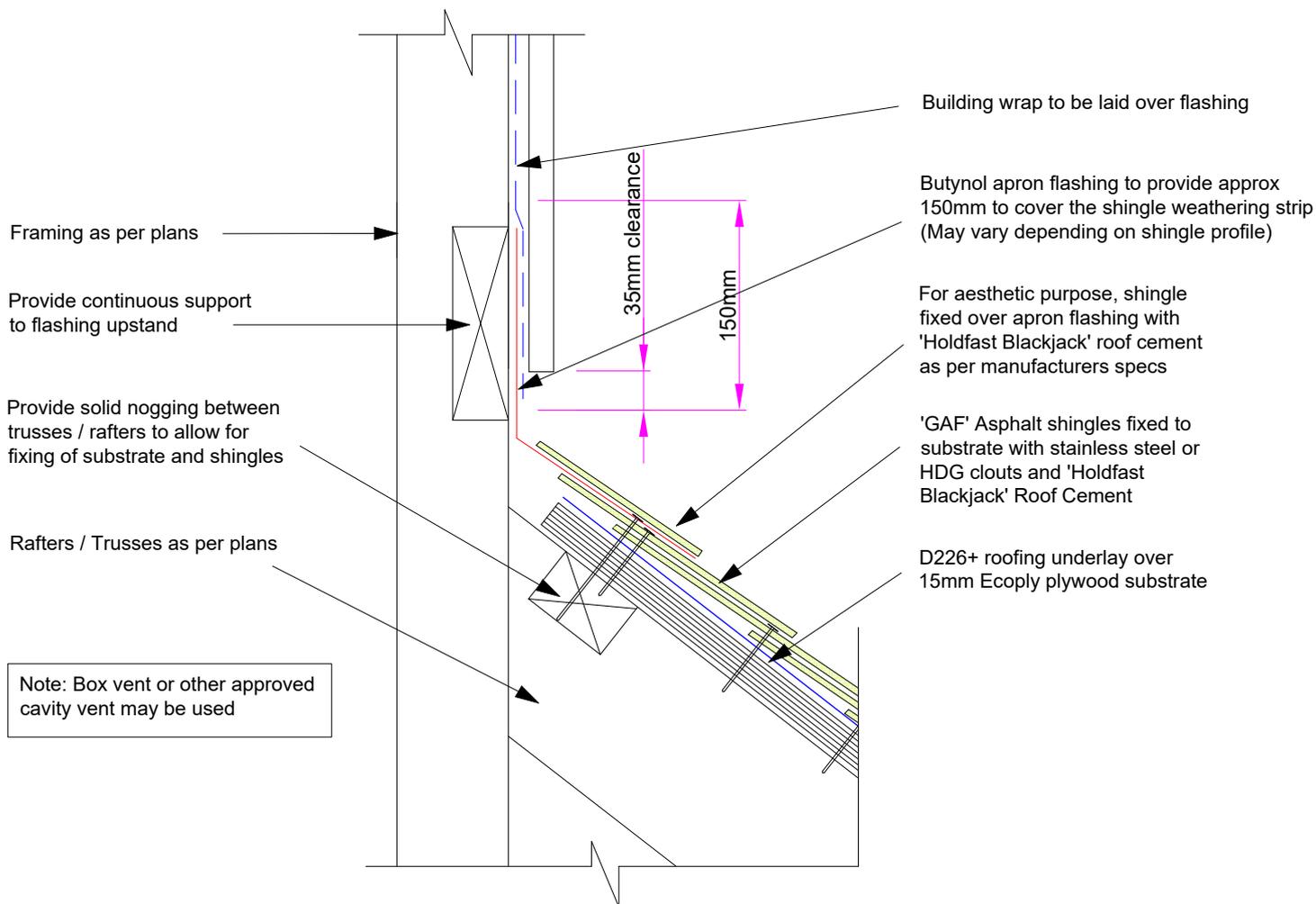
CONSTRUCTION DETAILS FOR 'GAF ASPHALT SHINGLE ROOFING SYSTEM'



Note: It is recommended fascia to be installed before roof ply

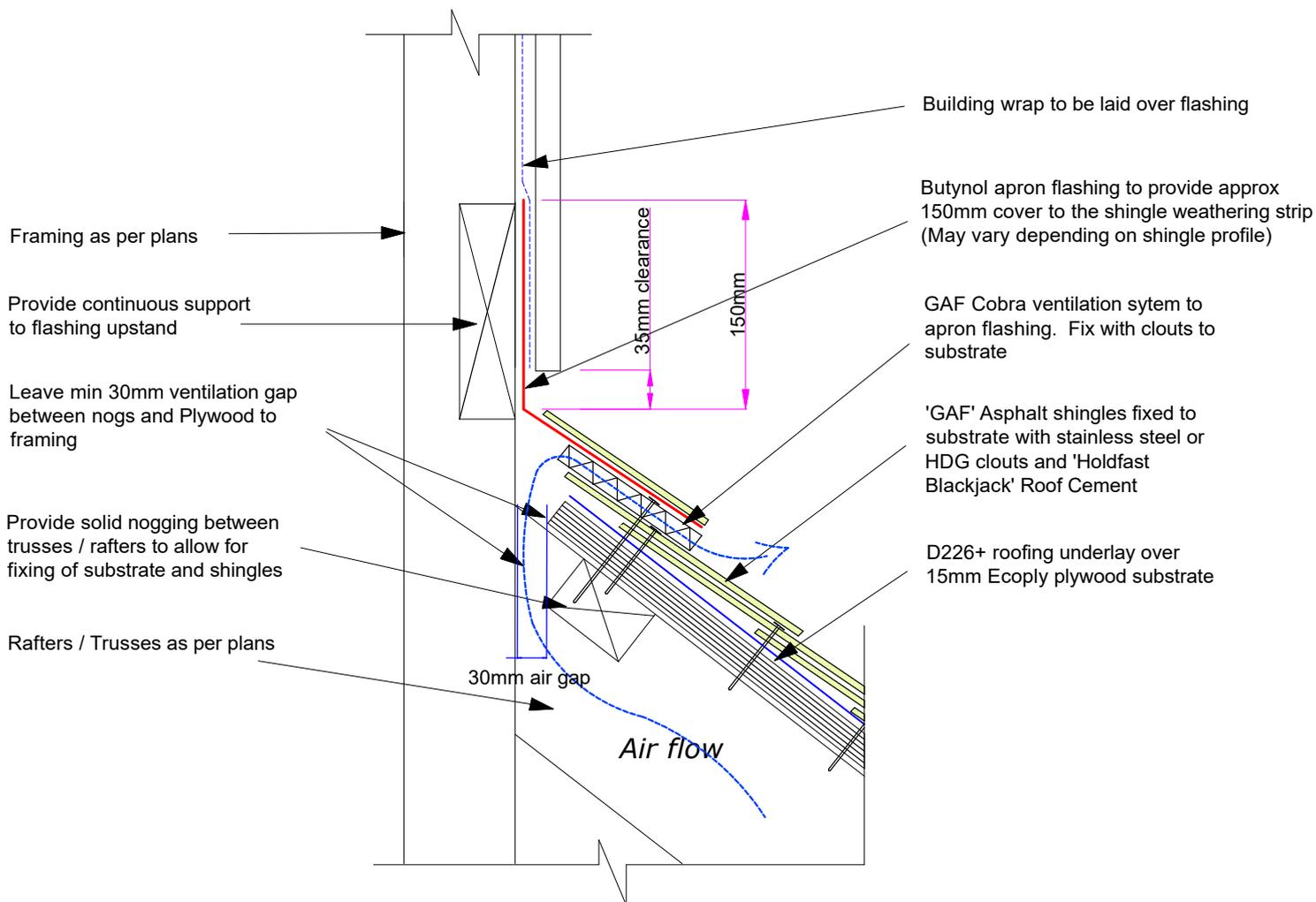
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	DETAILS FOR: ASPHALT SHINGLE ROOFING	SCALE: N/A		

CONSTRUCTION DETAILS FOR 'GAF ASPHALT SHINGLE ROOFING SYSTEM'



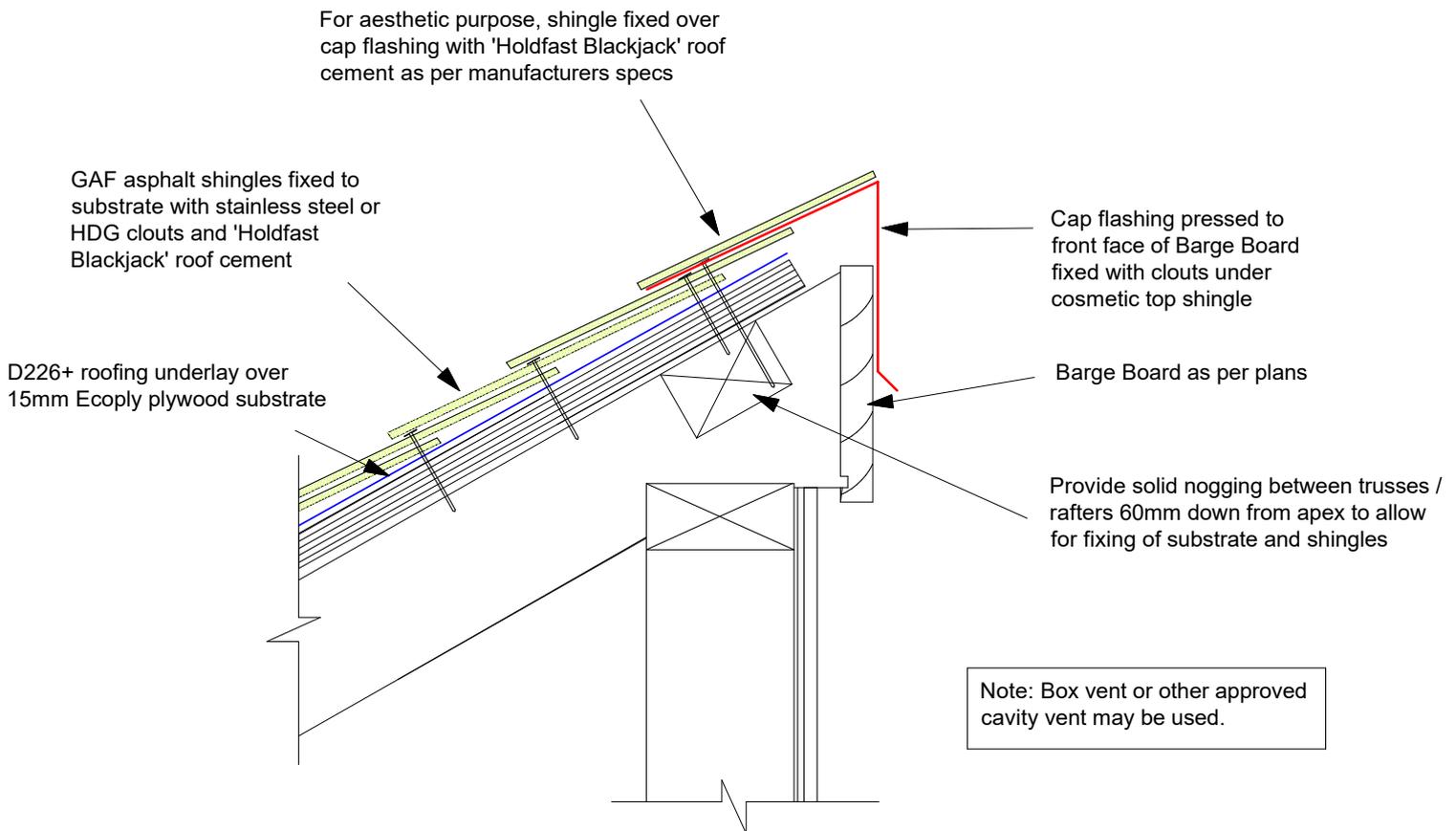
	DRAWING: APRON FLASHING	DATE: 24 JUNE 2018	PAGE: 4	
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CONSTRUCTION DETAILS FOR 'GAF ASPHALT SHINGLE ROOFING SYSTEM'



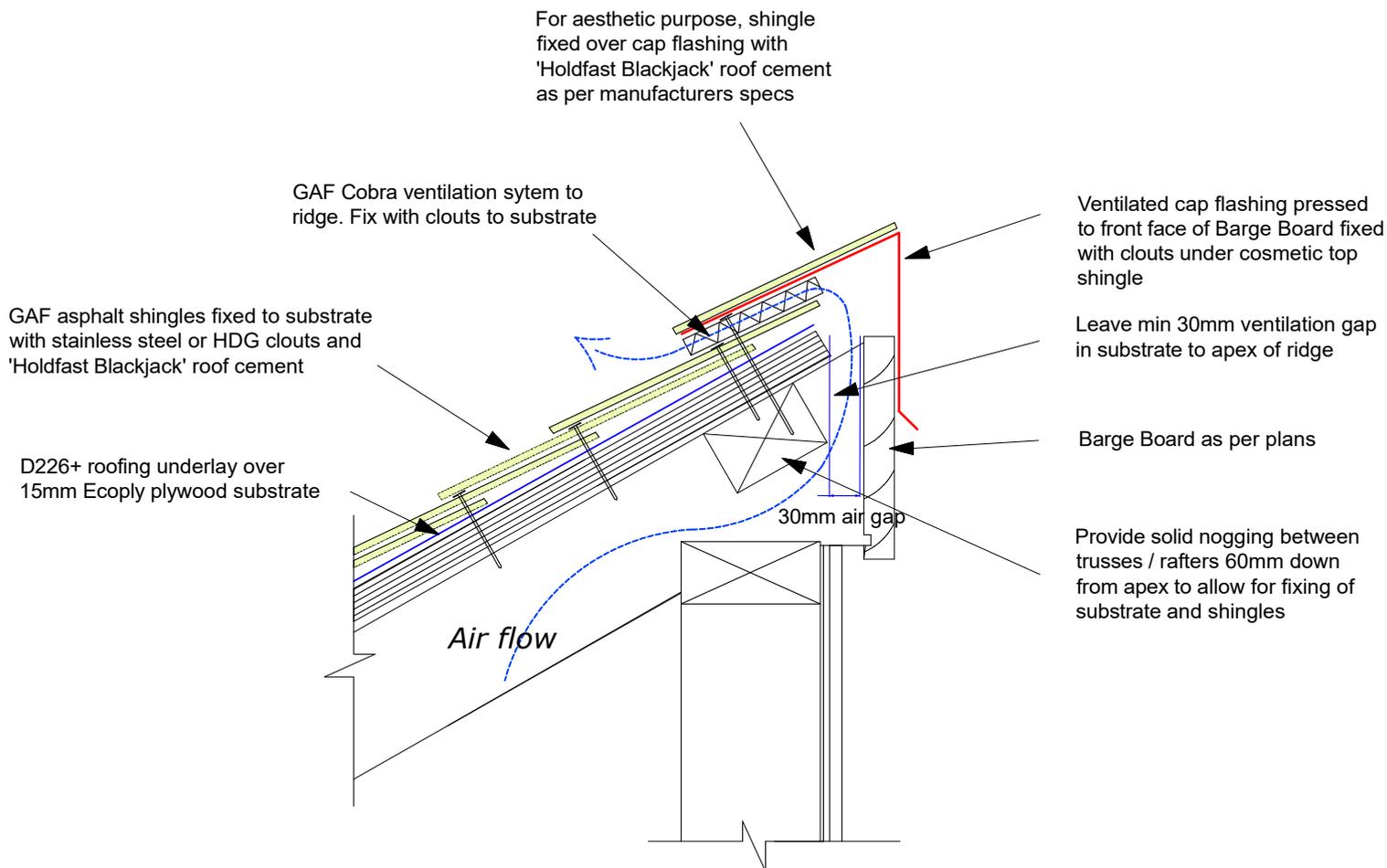
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	DETAILS FOR: ASPHALT SHINGLE ROOFING	SCALE: N/A		

CONSTRUCTION DETAILS FOR 'GAF ASPHALT SHINGLE ROOFING SYSTEM'



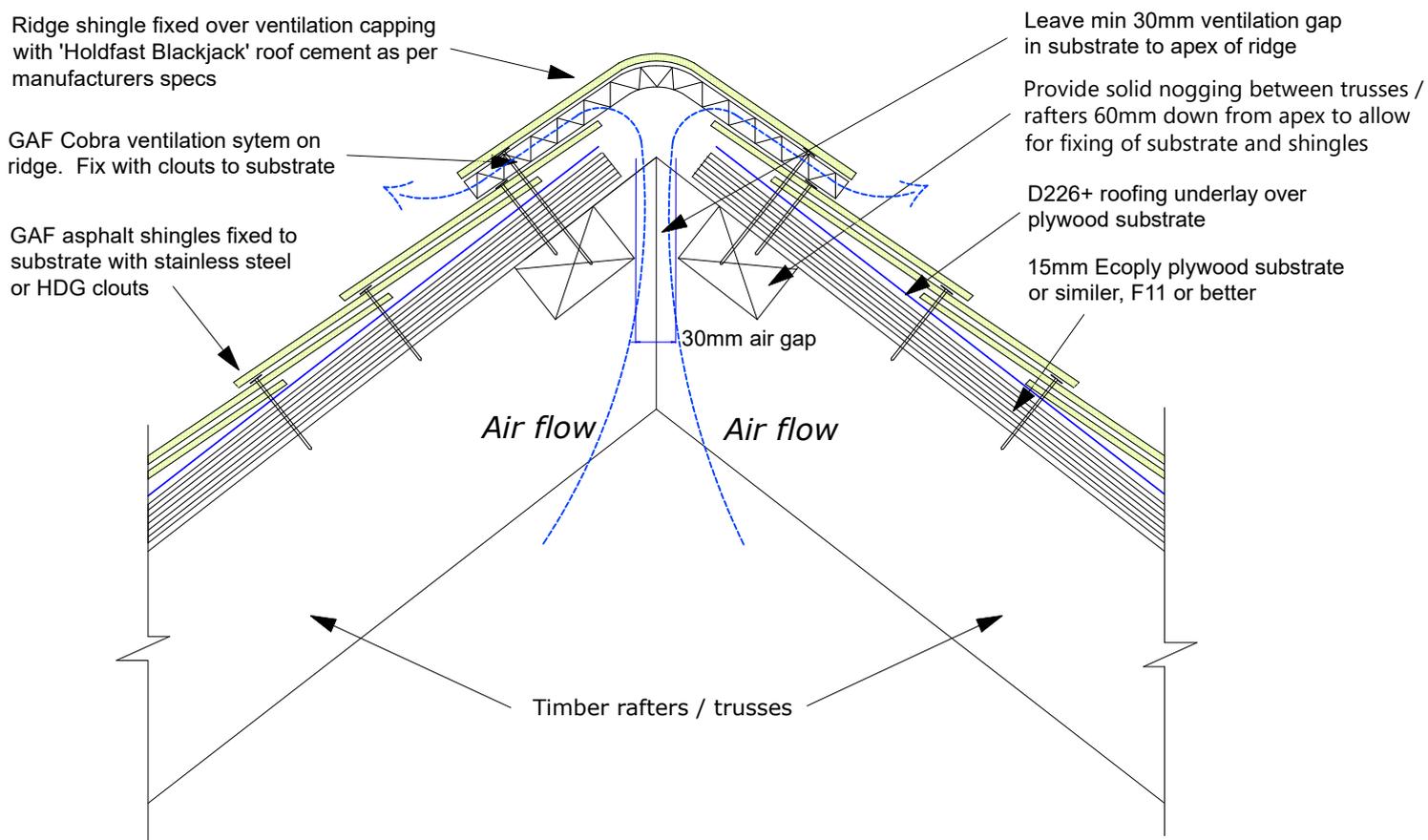
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CONSTRUCTION DETAILS FOR 'GAF ASPHALT SHINGLE ROOFING SYSTEM'



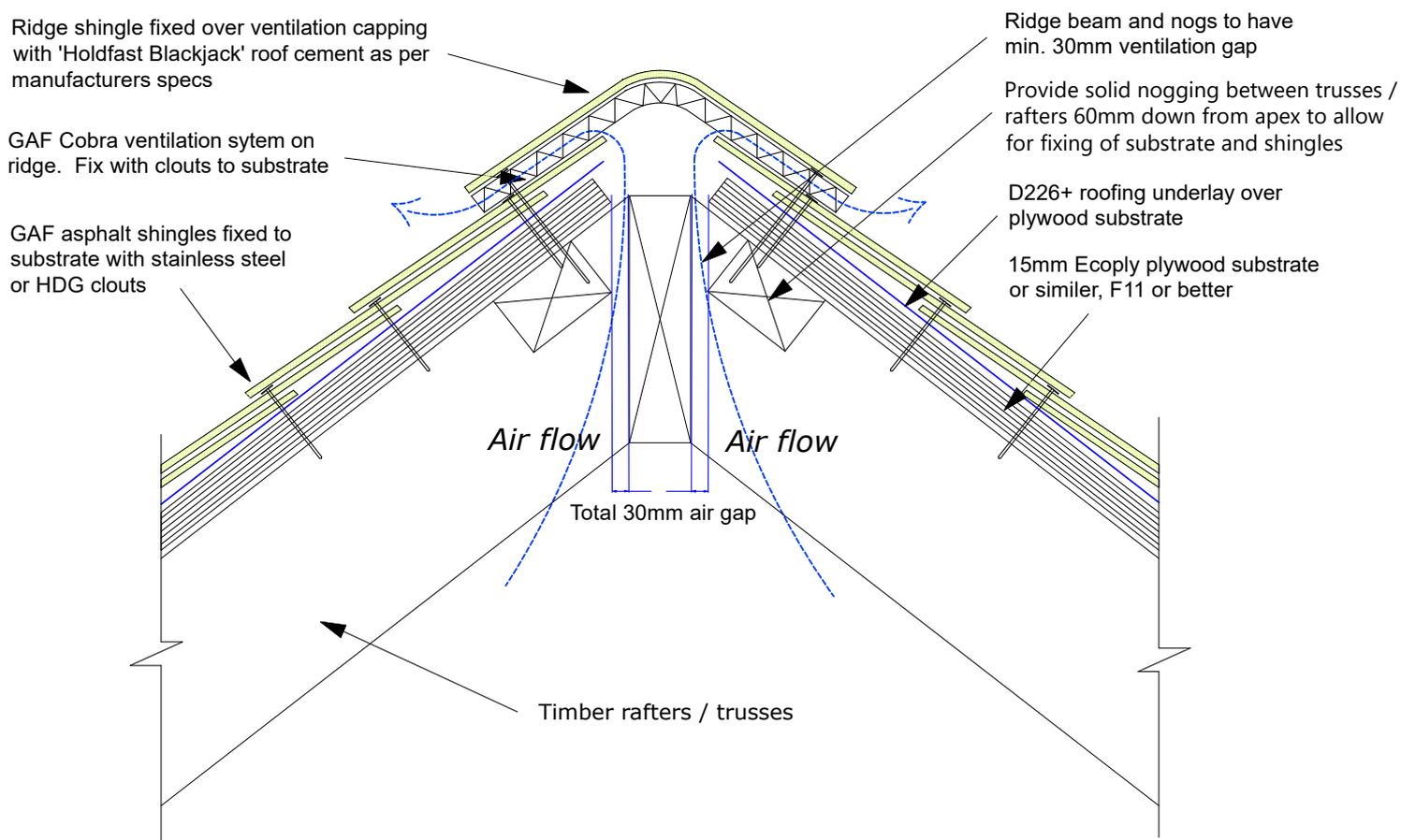
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CONSTRUCTION DETAILS FOR 'GAF ASPHALT SHINGLE ROOFING SYSTEM'



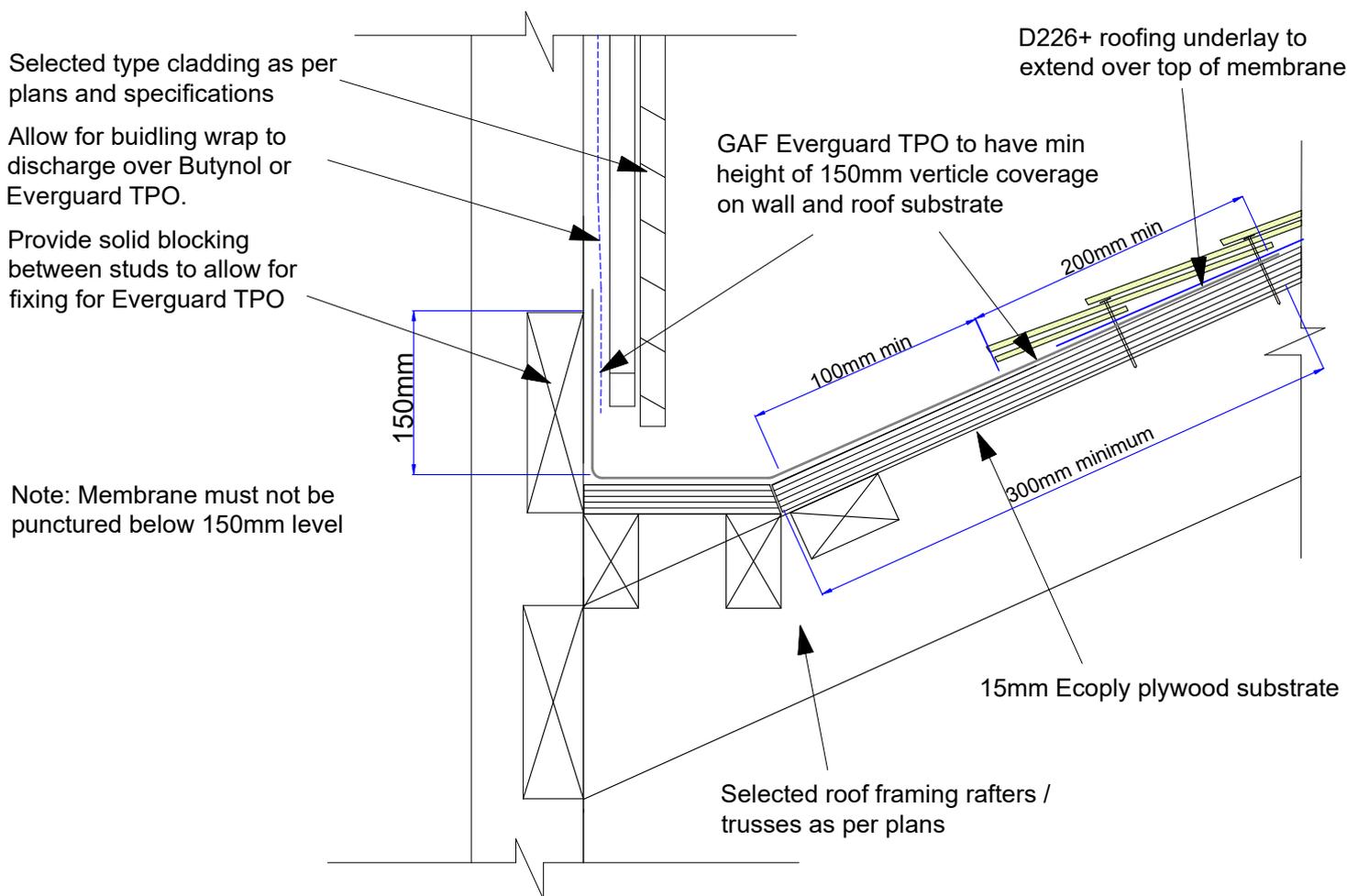
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CONSTRUCTION DETAILS FOR 'GAF ASPHALT SHINGLE ROOFING SYSTEM'



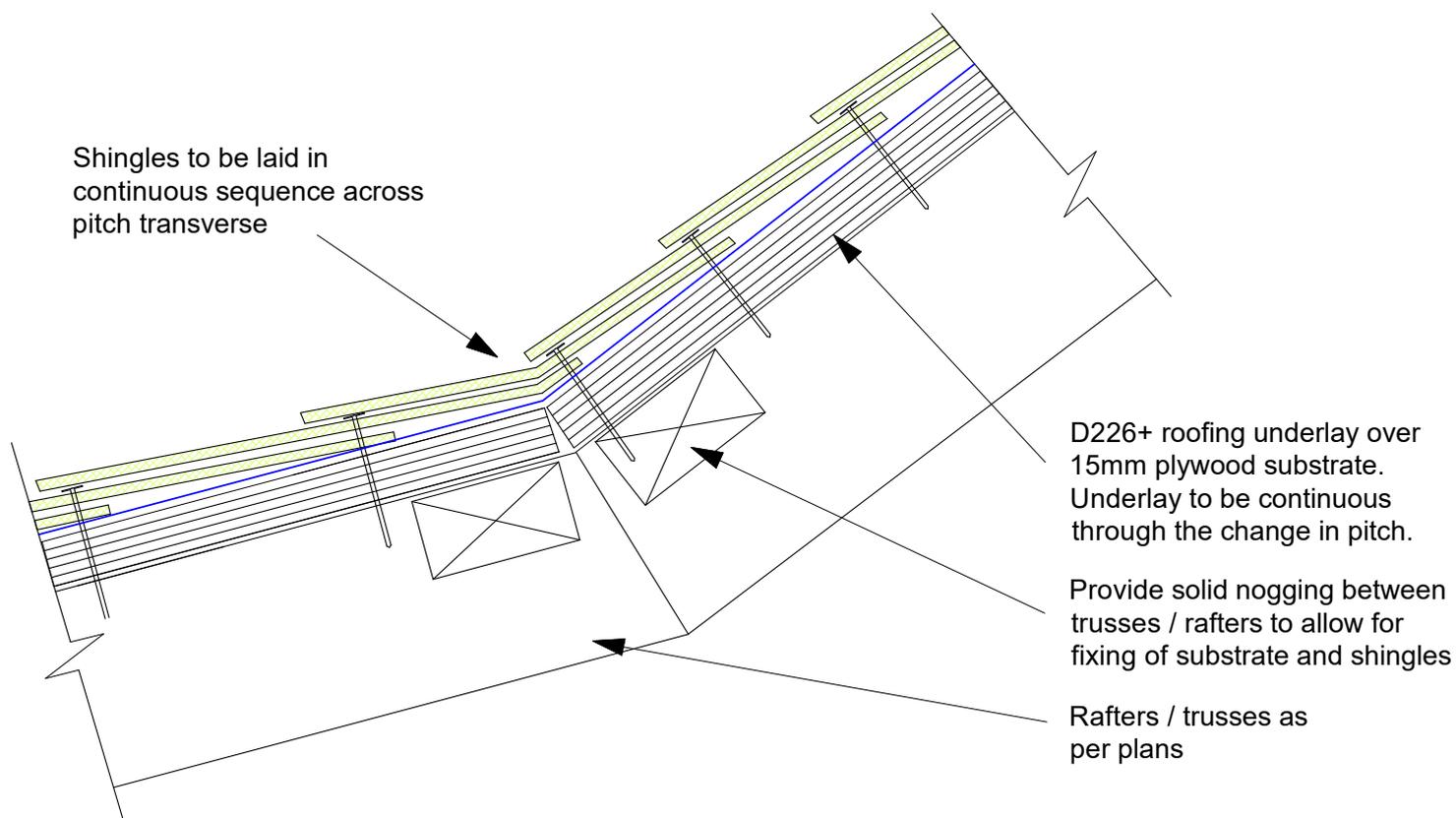
	DRAWING: RIDGE BEAN CLADDING	DATE: 30 JAN 2021	PAGE: 8.1	
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CONSTRUCTION DETAILS FOR 'GAF ASPHALT SHINGLE ROOFING SYSTEM'



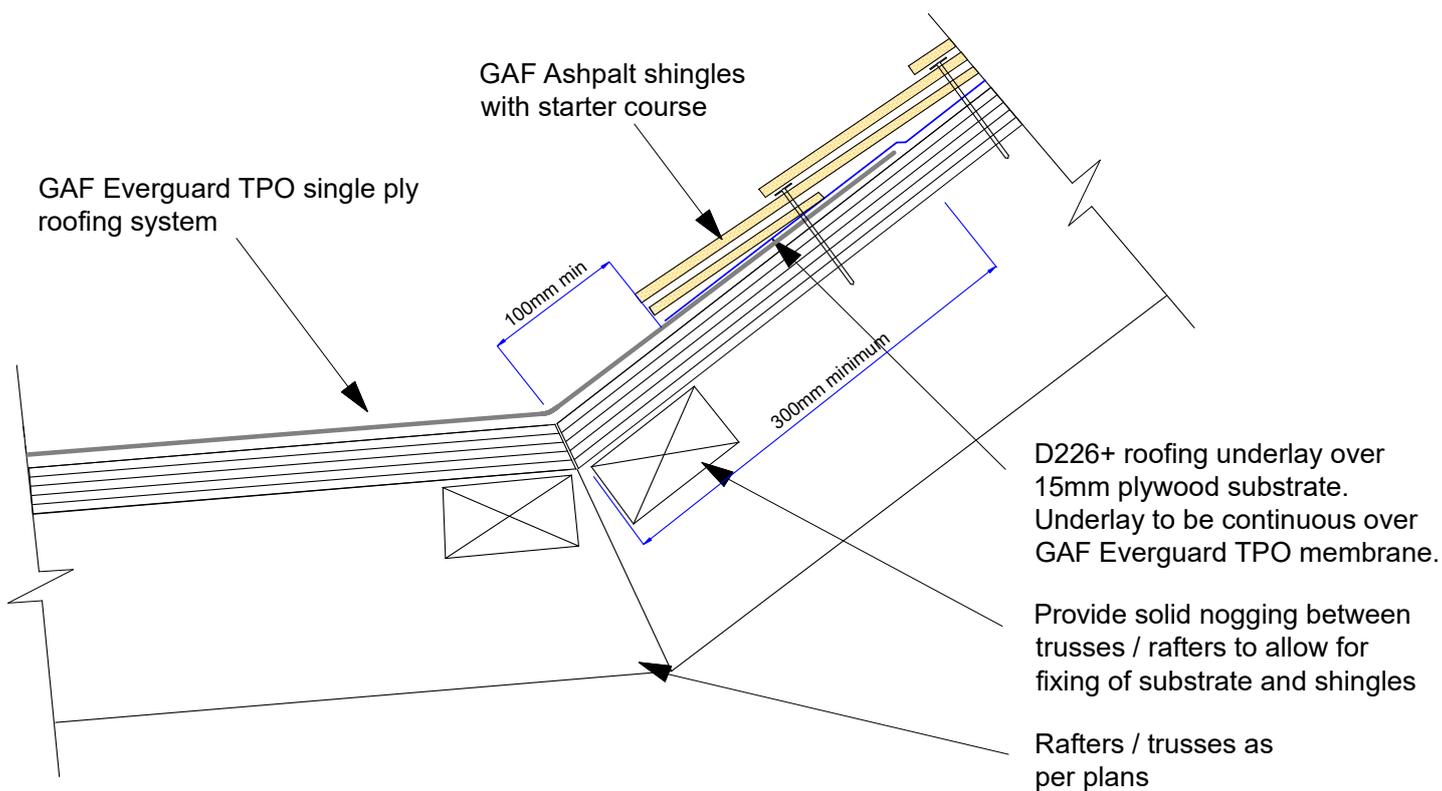
	DRAWING: SLOPE TO WALL DETAIL	DATE: 24 JUNE 2018	PAGE: 9	
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CONSTRUCTION DETAILS FOR 'GAF ASPHALT SHINGLE ROOFING SYSTEM'



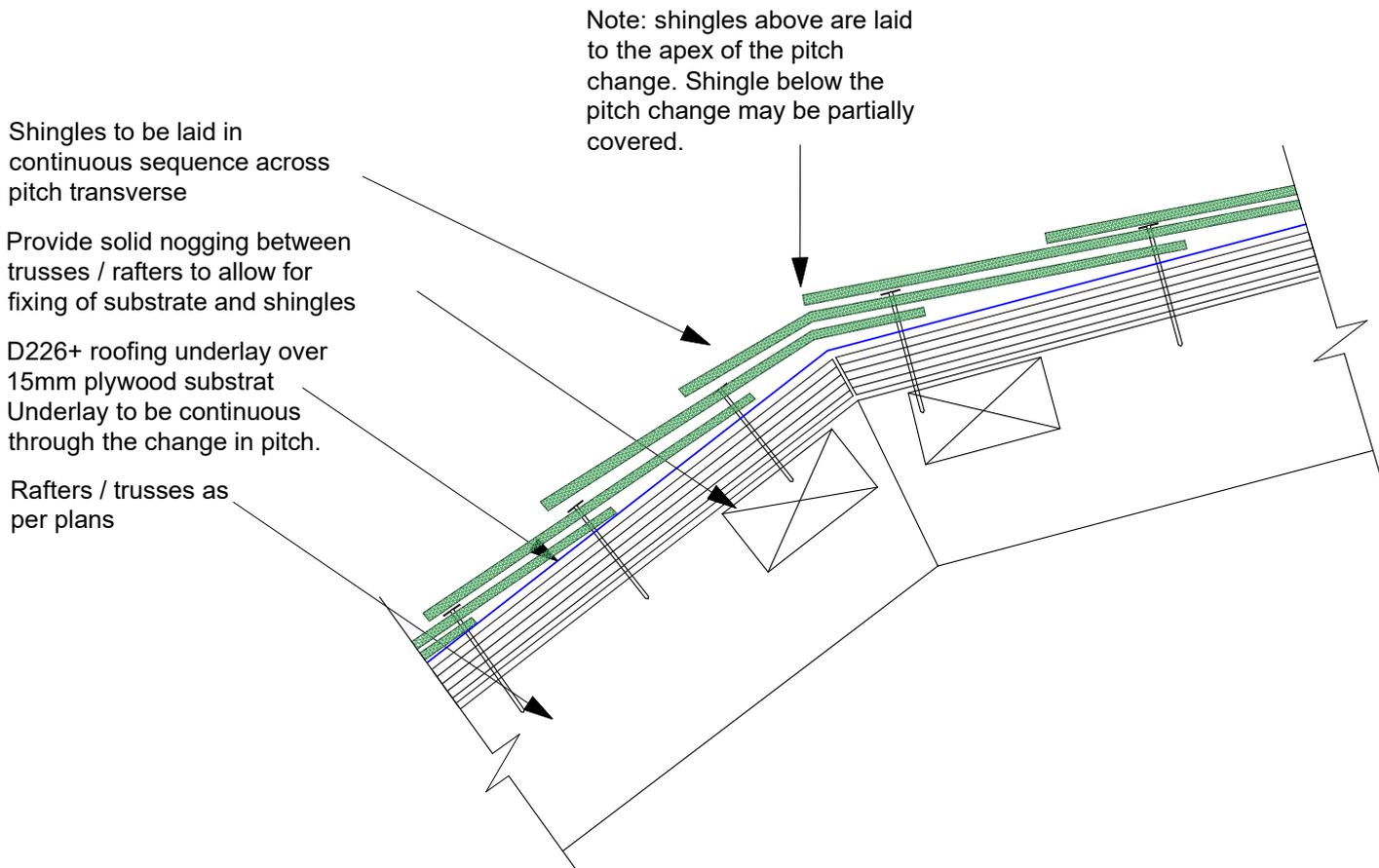
	DRAWING: PITCH CHANGE DETAIL	DATE: 24 JUNE 2018	PAGE: 10	
	DETAILS FOR: ASPHALT SHINGLE ROOFING	SCALE: N/A		

CONSTRUCTION DETAILS FOR 'GAF ASPHALT SHINGLE ROOFING SYSTEM'



	DRAWING: FLAT ROOF MEMBRANE TRANSITION	DATE: 30 JAN 2021	PAGE: 10.1	
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CONSTRUCTION DETAILS FOR 'GAF ASPHALT SHINGLE ROOFING SYSTEM'



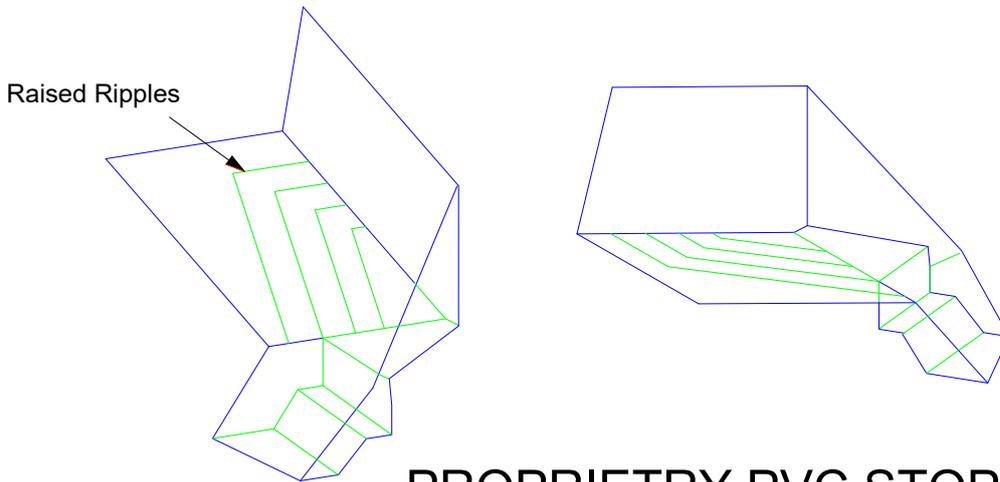
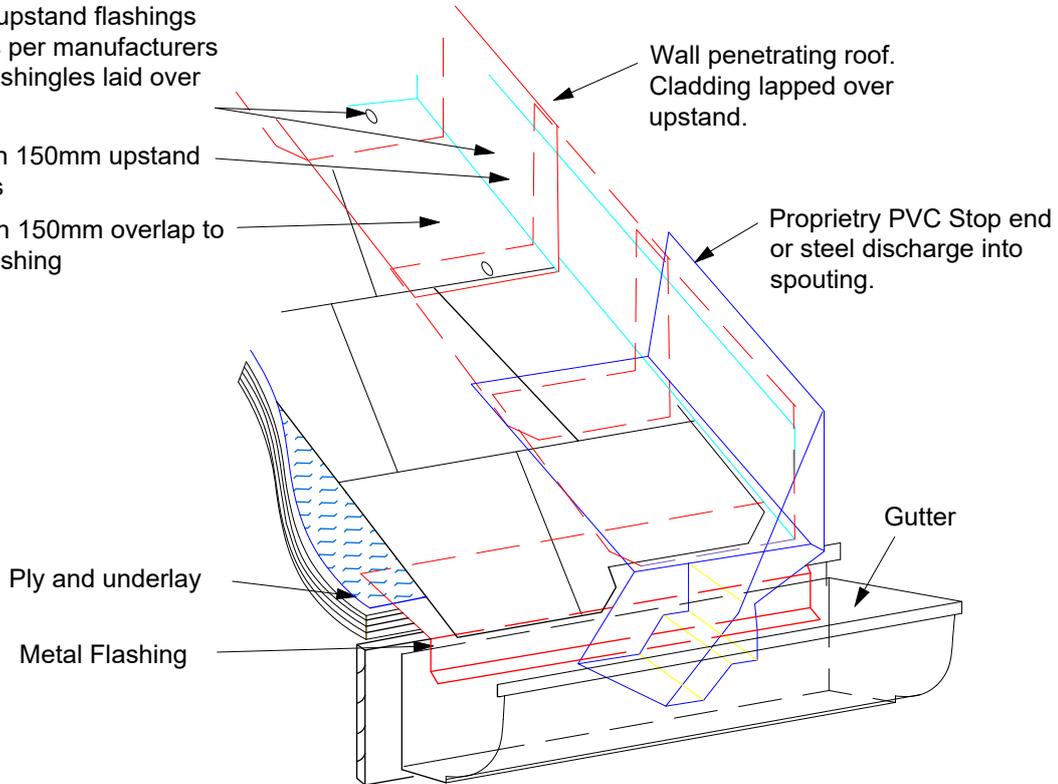
	DRAWING: PITCH CHANGE - MANSARD	DATE: 16 FEB 2021	PAGE: 10.2	
	DETAILS FOR: ASPHALT SHINGLE ROOFING	SCALE: N/A		

CONSTRUCTION DETAILS FOR 'GAF ASPHALT SHINGLE ROOFING SYSTEM'

Butynol or upstand flashings installed as per manufacturers specs with shingles laid over

Provide min 150mm upstand to flashings

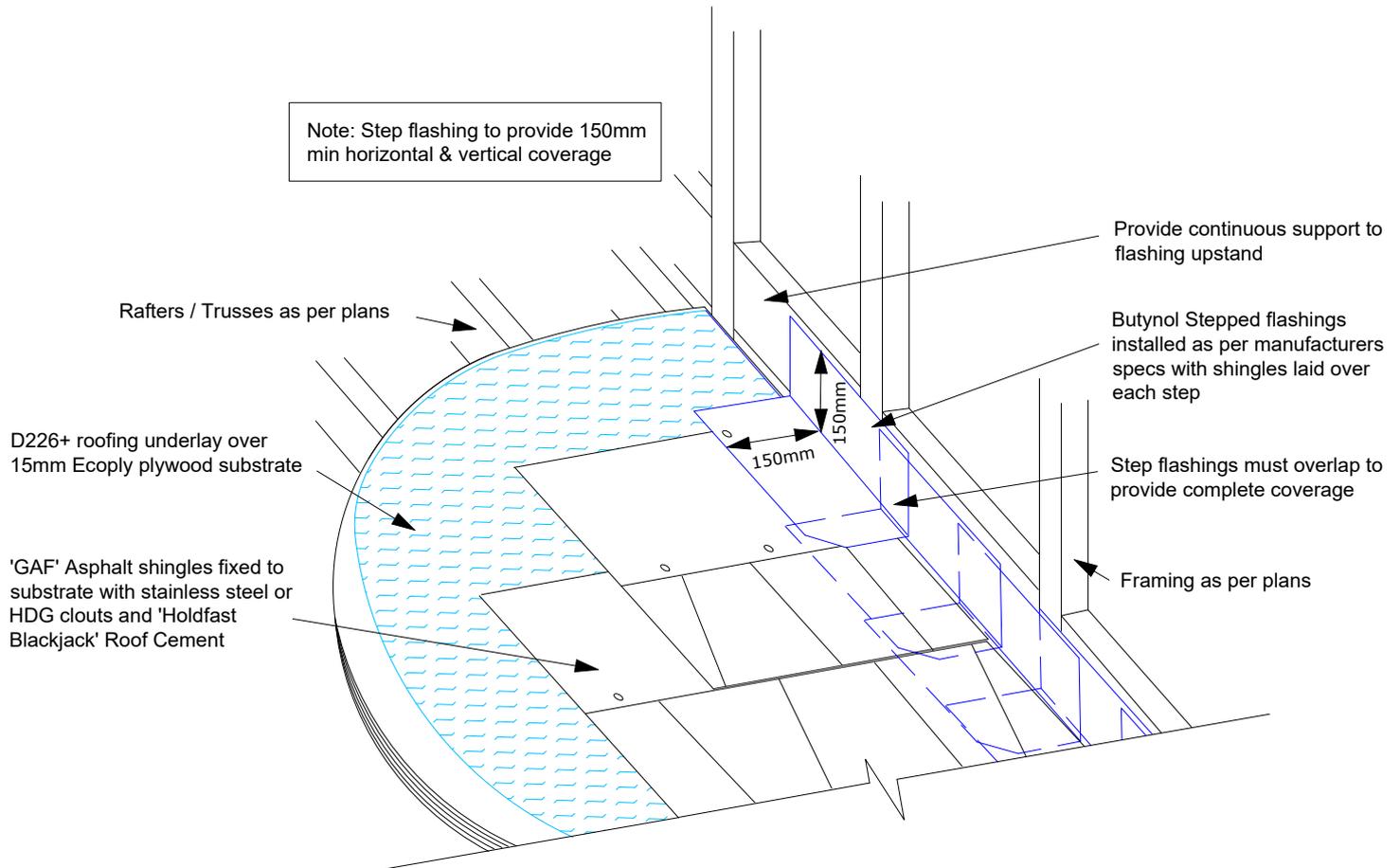
Provide min 150mm overlap to upstand flashing



PROPRIETARY PVC STOP END ONE PIECE FLASHING

	DRAWING: GUTTER WALL JUNCTION	DATE: 24 JUNE 2018	PAGE: 11	
	DETAILS FOR: ASPHALT SHINGLE ROOFING	SCALE: N/A		

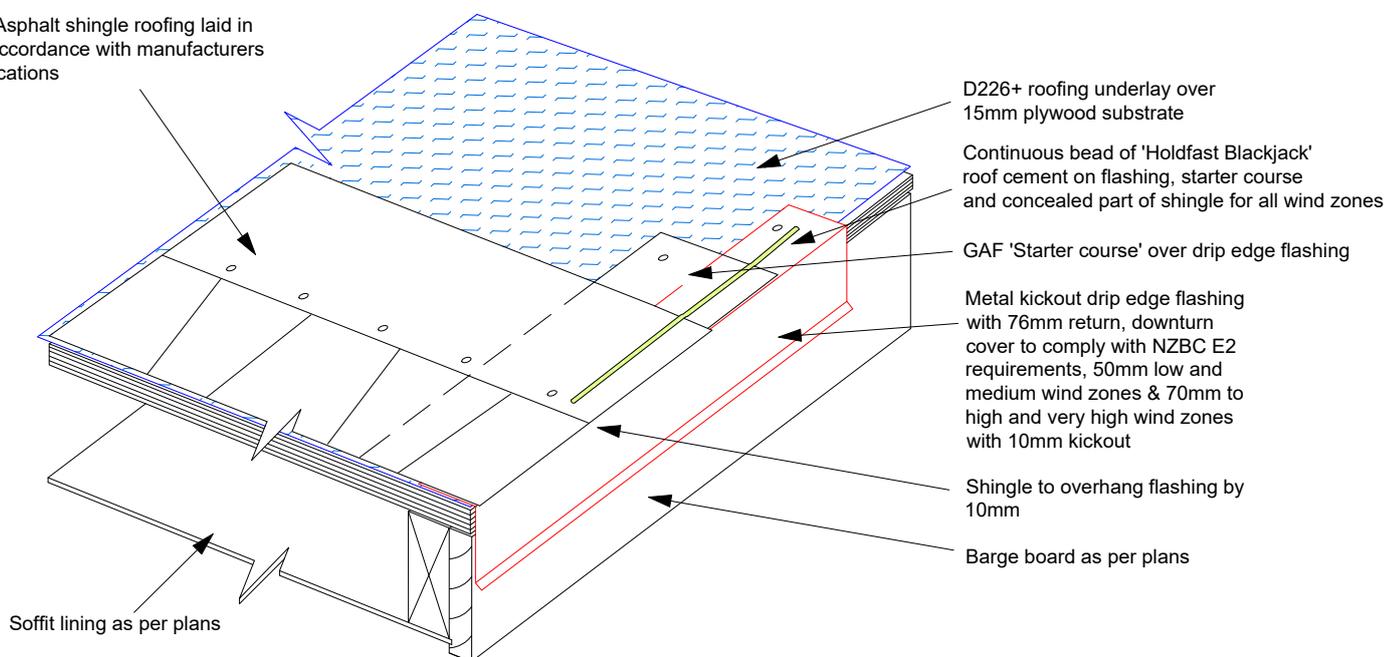
CONSTRUCTION DETAILS FOR 'GAF ASPHALT SHINGLE ROOFING SYSTEM'



	DRAWING: STEP FLASHING DETAIL	DATE: 24 JUNE 2018	PAGE: 12	
	DETAILS FOR: ASPHALT SHINGLE ROOFING	SCALE: N/A		

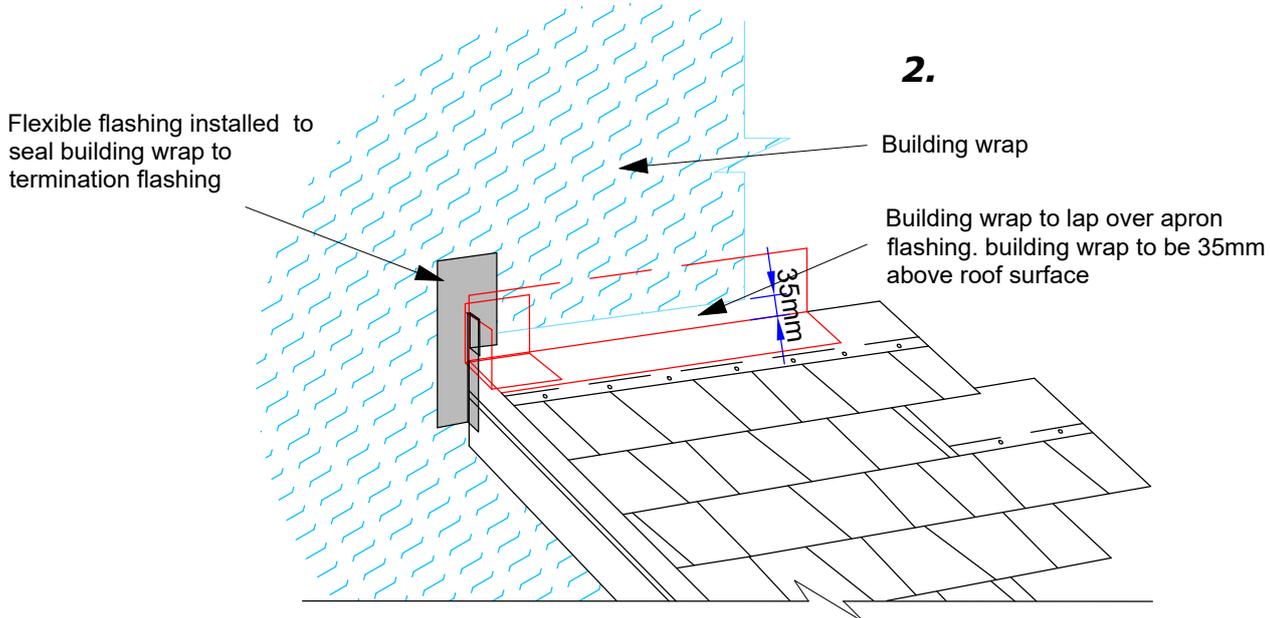
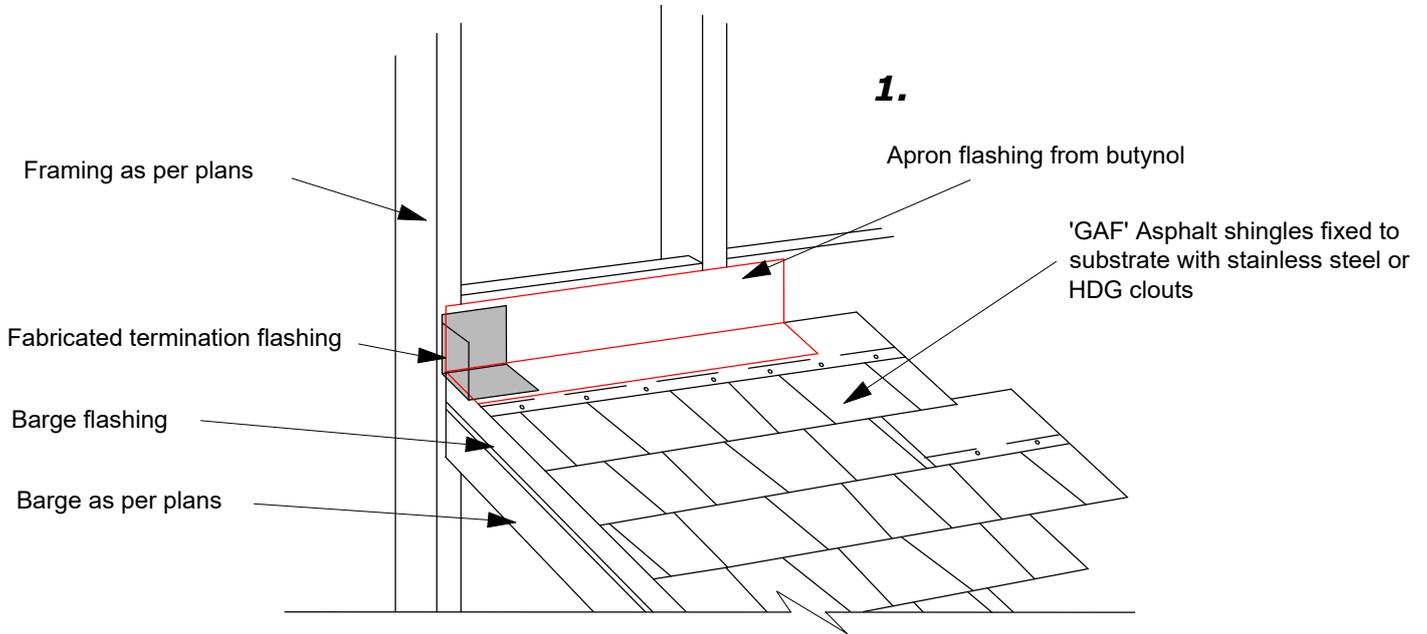
CONSTRUCTION DETAILS FOR 'GAF ASPHALT SHINGLE ROOFING SYSTEM'

'GAF' Asphalt shingle roofing laid in strict accordance with manufacturers specifications



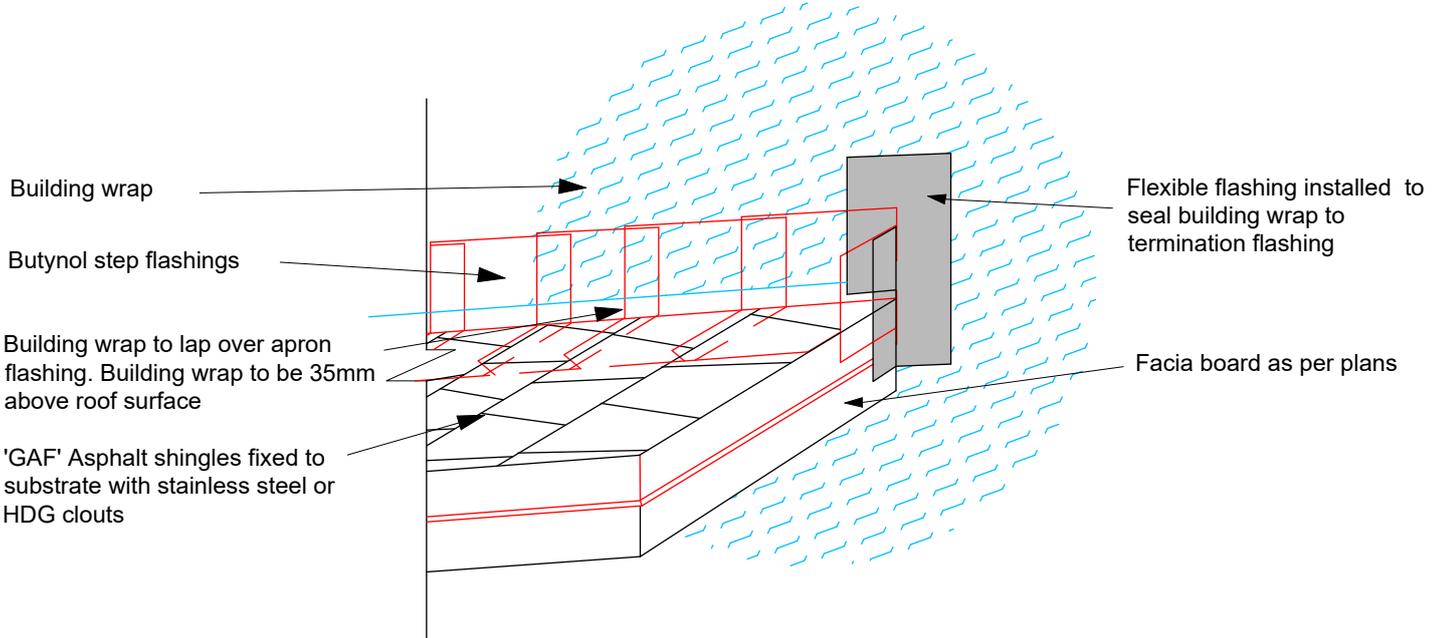
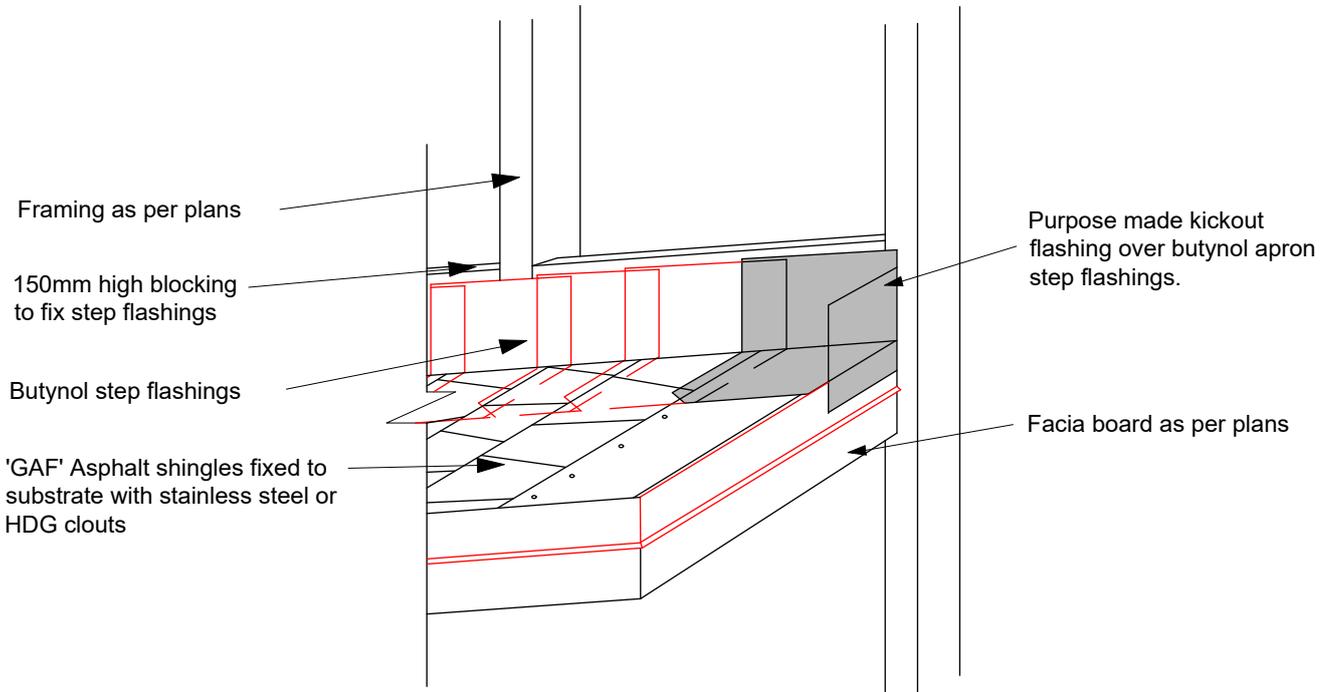
	DRAWING: BARGE END DETAIL	DATE: 24 JUNE 2018	PAGE: 13	
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CONSTRUCTION DETAILS FOR 'GAF ASPHALT SHINGLE ROOFING SYSTEM'



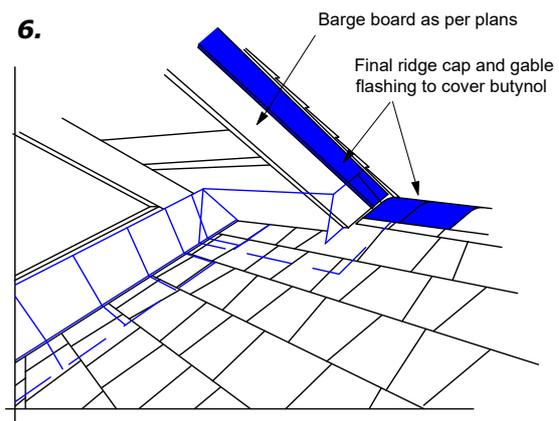
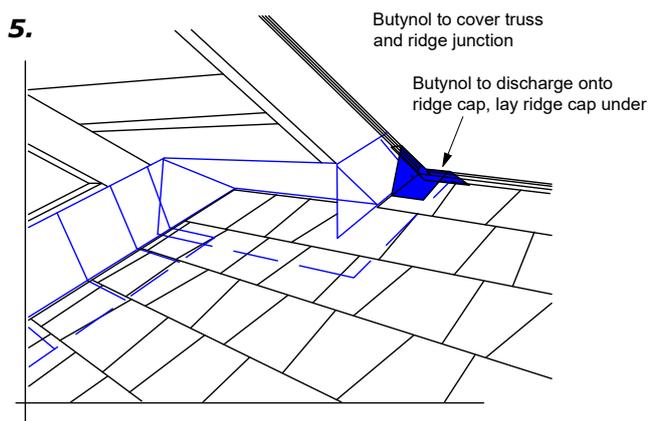
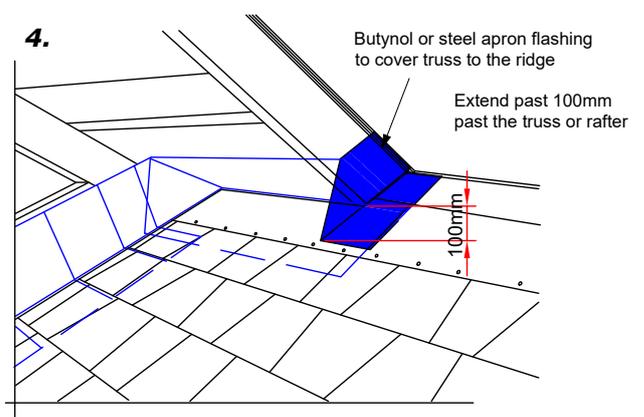
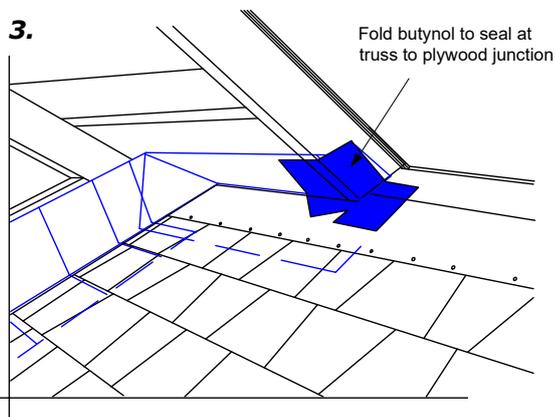
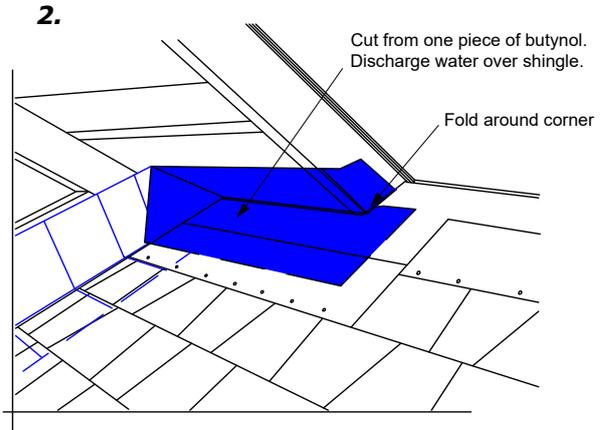
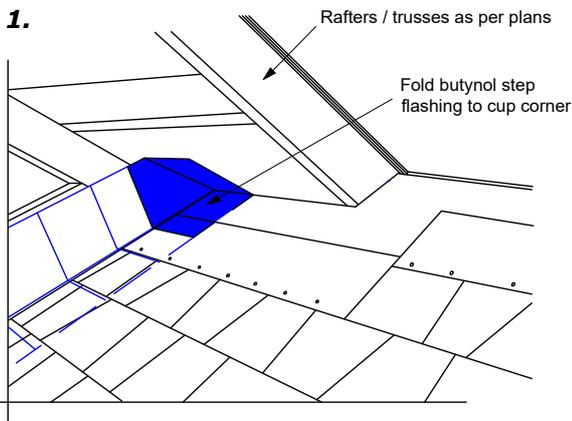
	DRAWING: APRON TERMINATION DETAIL	DATE: 28 JUNE 2018	PAGE: 14	
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CONSTRUCTION DETAILS FOR 'GAF ASPHALT SHINGLE ROOFING SYSTEM'



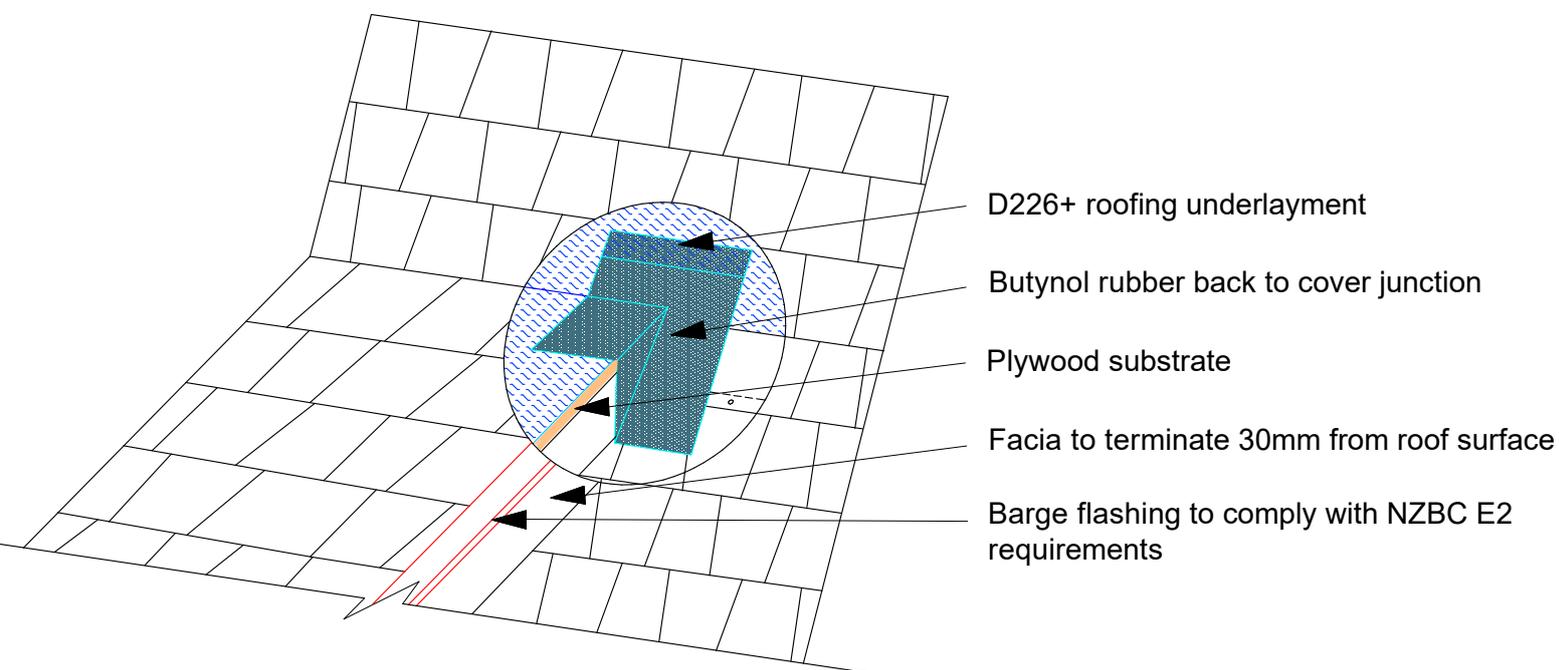
	DRAWING: KICK OUT FLASHING DETAIL	DATE: 28 JUNE 2018	PAGE: 15	
	DETAILS FOR: ASPHALT SHINGLE ROOFING	SCALE: N/A		

CONSTRUCTION DETAILS FOR 'GAF ASPHALT SHINGLE ROOFING SYSTEM'



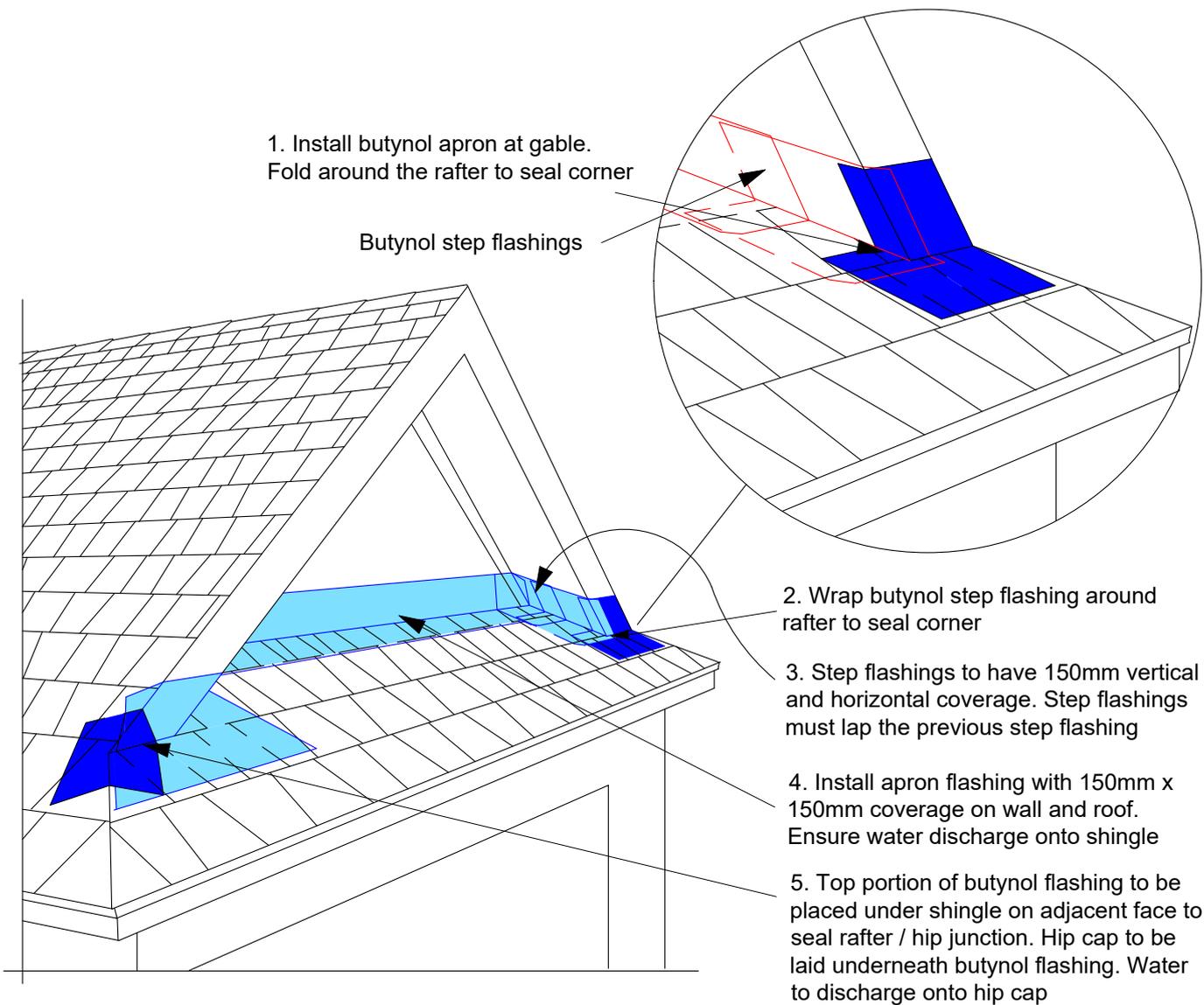
	DRAWING: GABLE TO RIDGE DETAIL	DATE: 24 JUNE 2018	PAGE: 16	
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CONSTRUCTION DETAILS FOR 'GAF ASPHALT SHINGLE ROOFING SYSTEM'



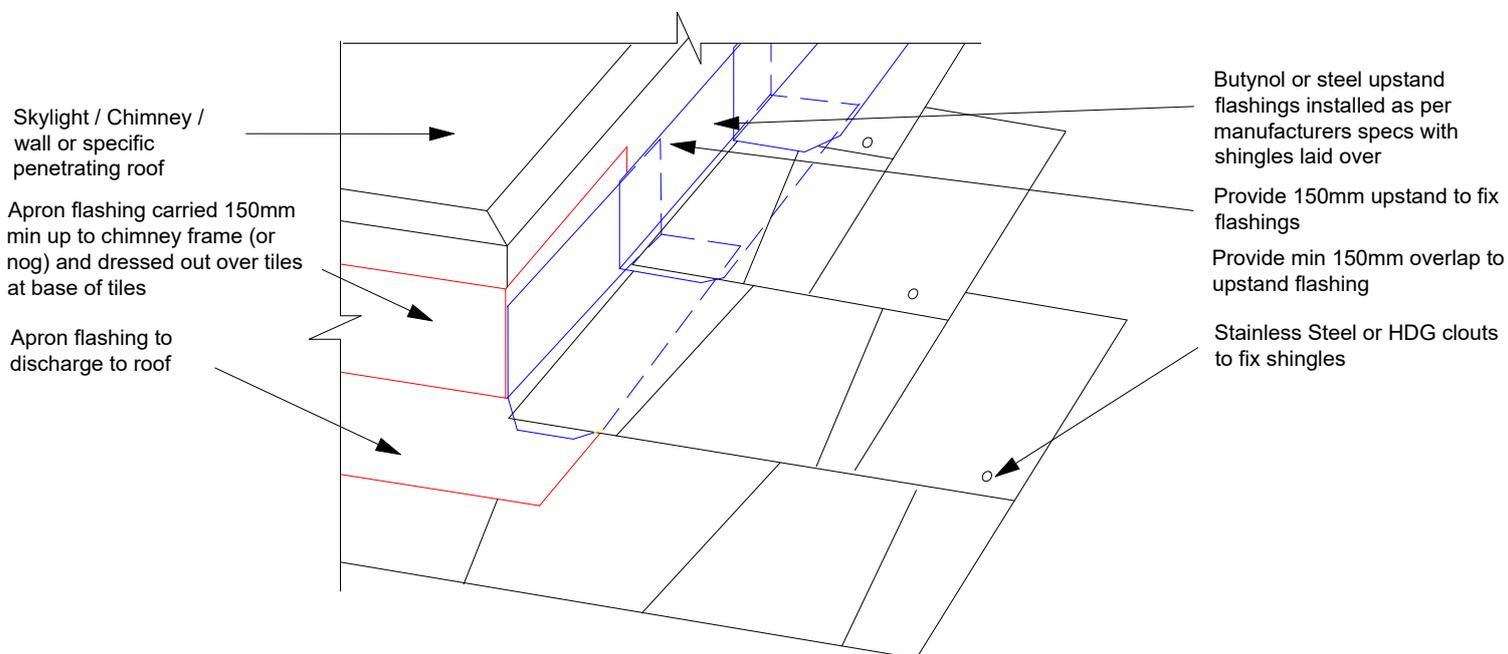
	DRAWING: DUTCH DROMER GABLE JUNC.	DATE: 16 MARCH 2021	PAGE: 16.1	
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CONSTRUCTION DETAILS FOR 'GAF ASPHALT SHINGLE ROOFING SYSTEM'



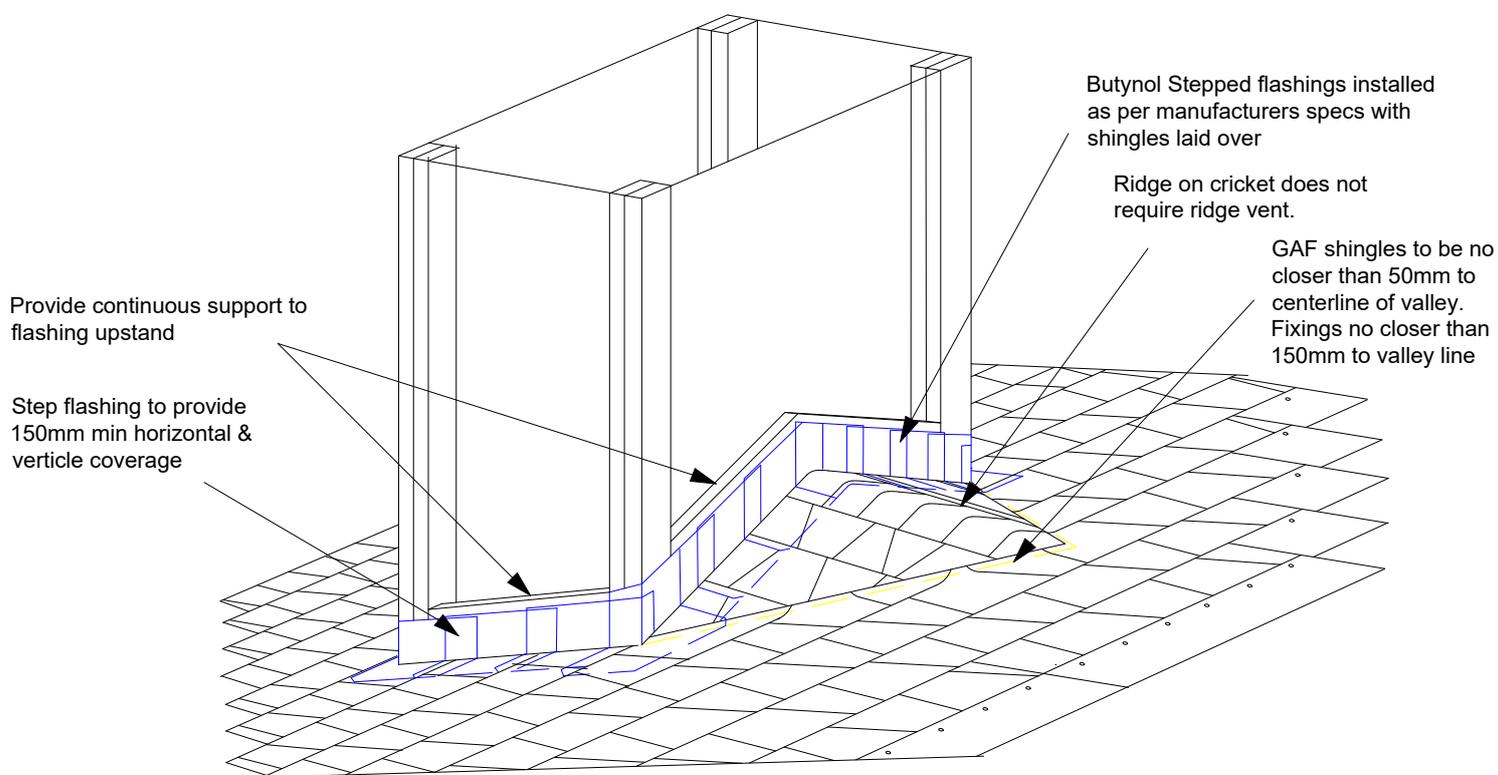
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CONSTRUCTION DETAILS FOR 'GAF ASPHALT SHINGLE ROOFING SYSTEM'



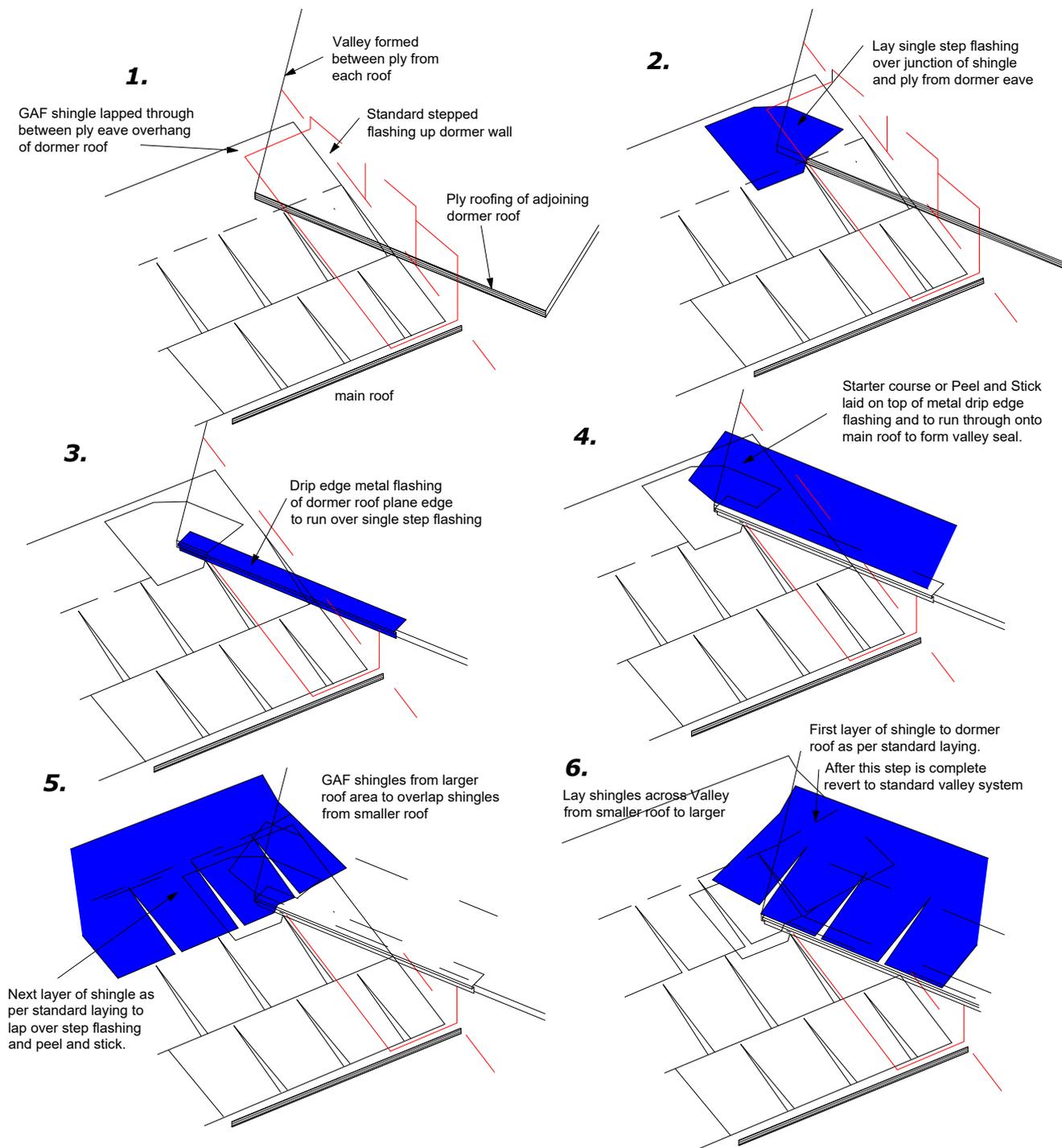
	DRAWING: SPECIFIC PENETRATION	DATE: 24 JUNE 2018	PAGE: 18	
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CONSTRUCTION DETAILS FOR 'GAF ASPHALT SHINGLE ROOFING SYSTEM'



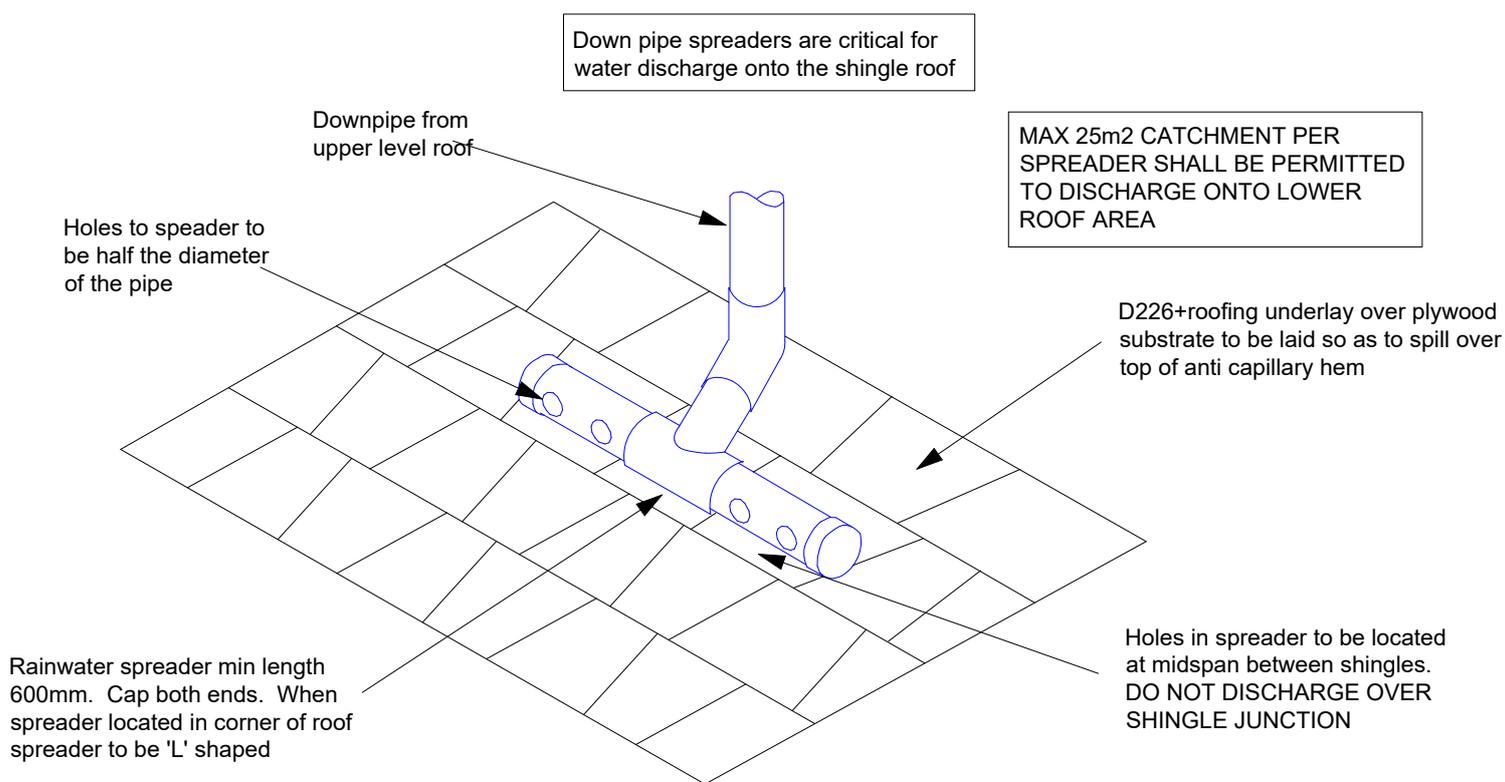
	DRAWING: CHIMNEY CRICKET DETAIL	DATE: 26 JUNE 2018	PAGE: 19	
	DETAILS FOR: ASPHALT SHINGLE ROOFING	SCALE: N/A		

CONSTRUCTION DETAILS FOR 'GAF ASPHALT SHINGLE ROOFING SYSTEM'



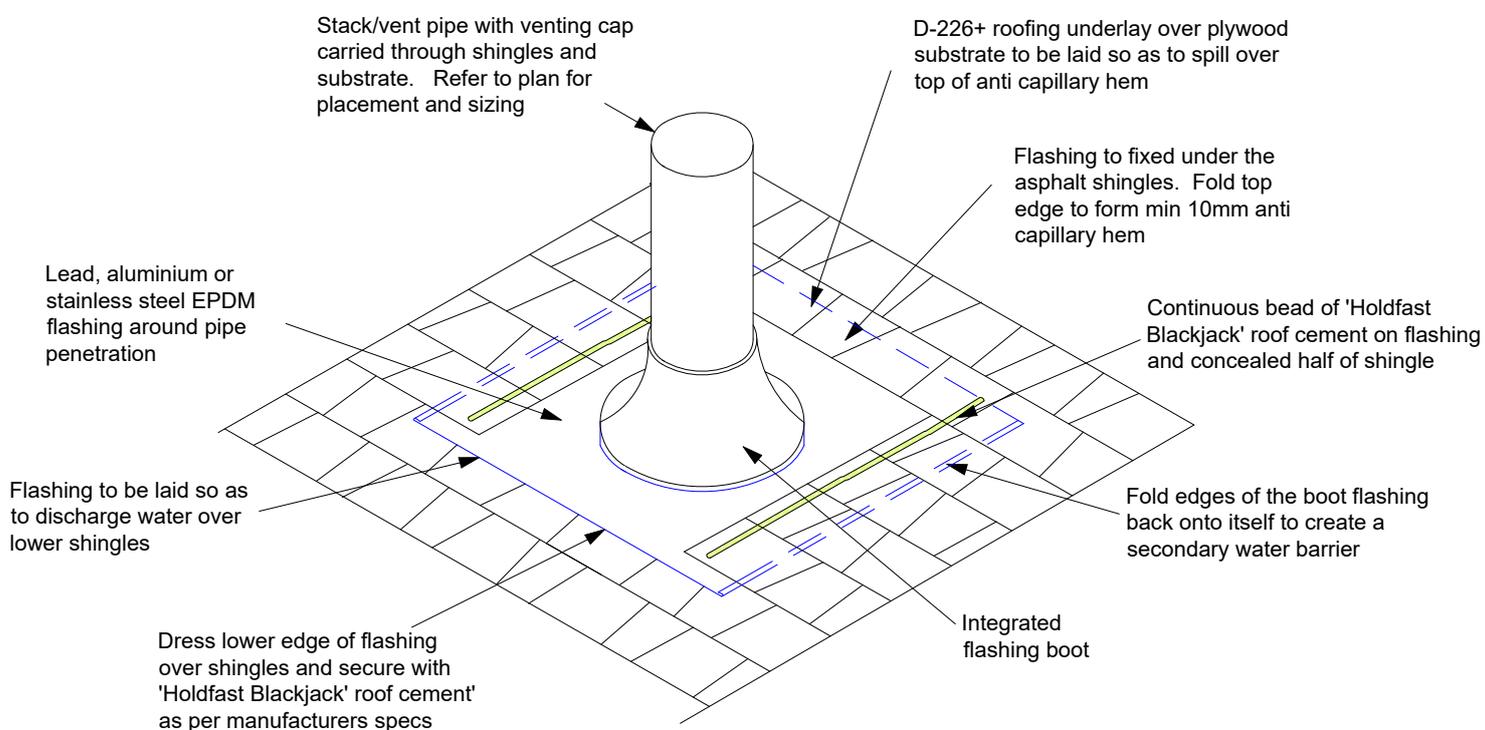
	DRAWING: VALLEY TO DORMER DETAIL	DATE: 24 JUNE 2018	PAGE: 20	
	DETAILS FOR: ASPHALT SHINGLE ROOFING	SCALE: N/A		

CONSTRUCTION DETAILS FOR 'GAF ASPHALT SHINGLE ROOFING SYSTEM'



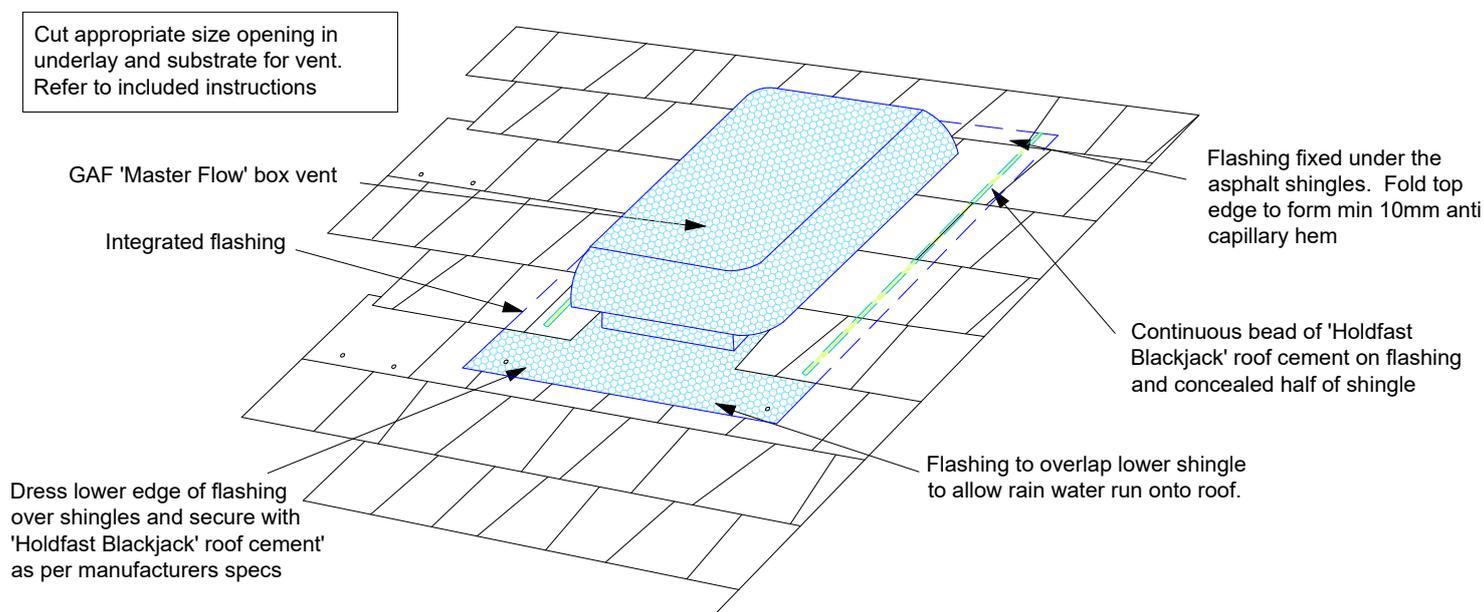
	DRAWING: RAIN WATER SPREADER	DATE: 24 JUNE 2018	PAGE: 21	
	DETAILS FOR: ASPHALT SHINGLE ROOFING	SCALE: N/A		

CONSTRUCTION DETAILS FOR 'GAF ASPHALT SHINGLE ROOFING SYSTEM'



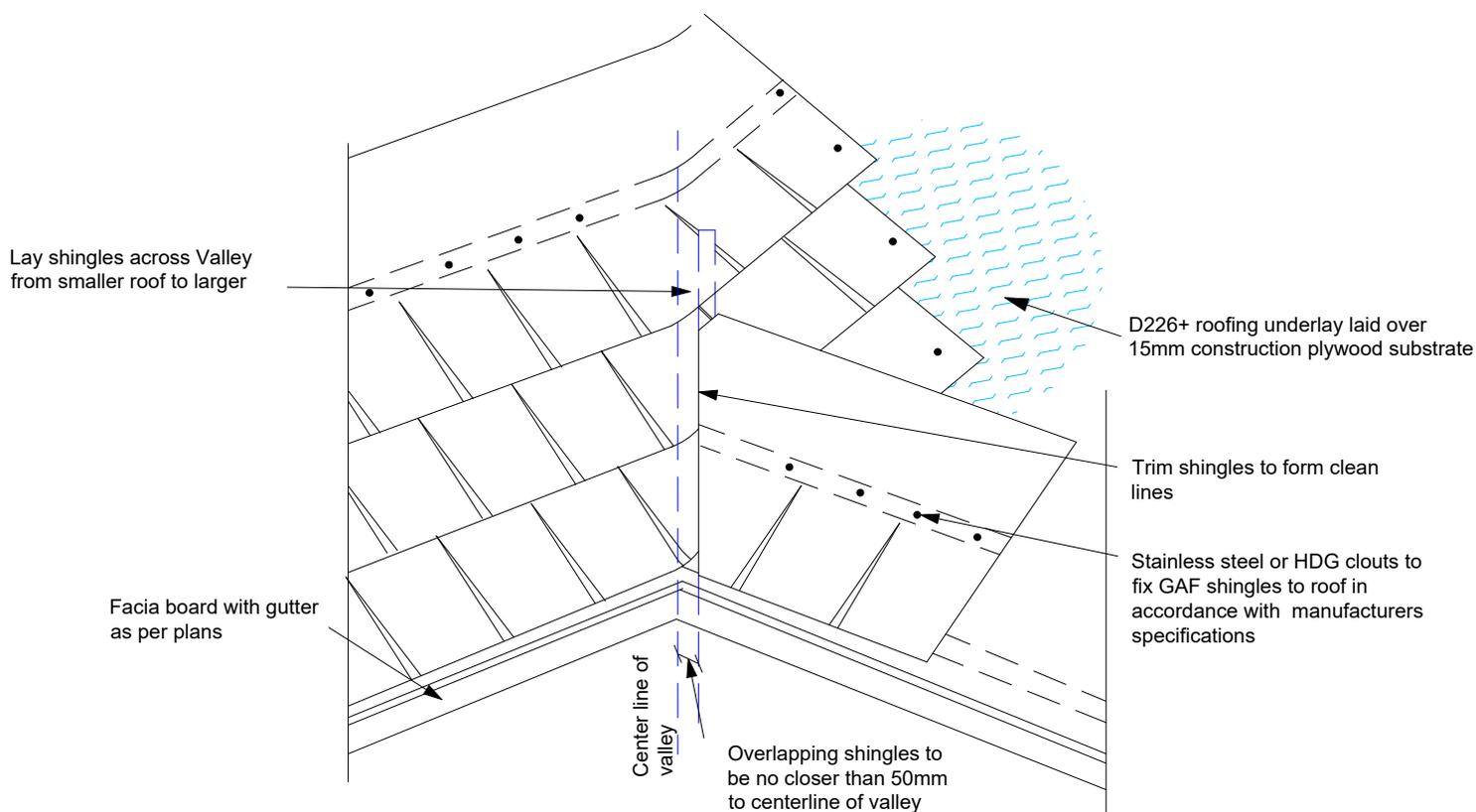
	DRAWING: PIPE PENETRATION DETAIL	DATE: 24 JUNE 2018	PAGE: 22	
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CONSTRUCTION DETAILS FOR 'GAF ASPHALT SHINGLE ROOFING SYSTEM'



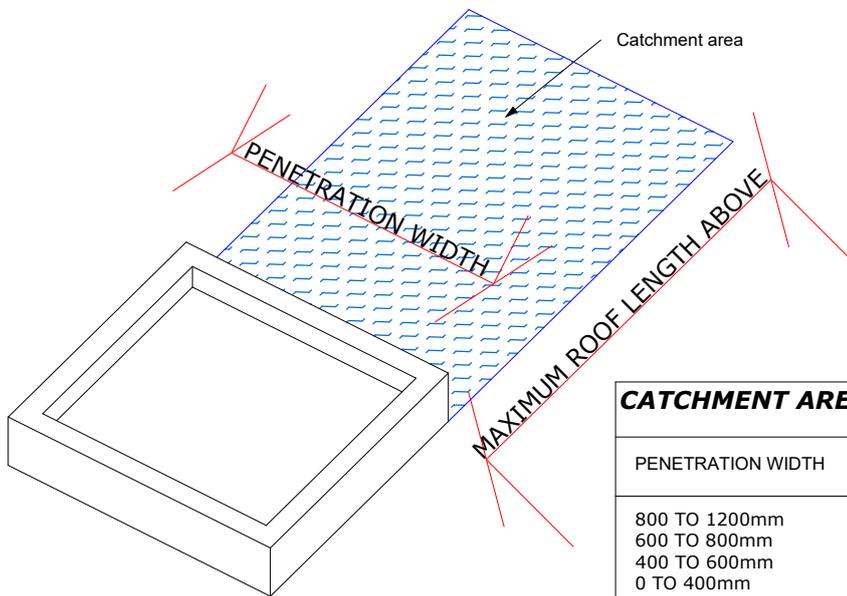
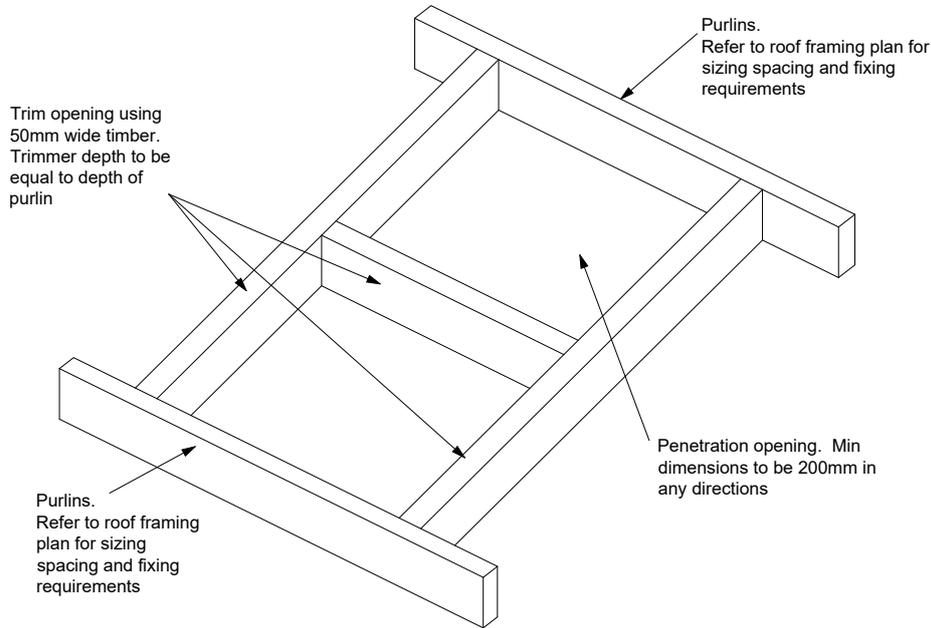
	DRAWING: MASTER FLOW BOX VENT	DATE: 28 JUNE 2018	PAGE: 23	
	DETAILS FOR: ASPHALT SHINGLE ROOFING	SCALE: N/A		

CONSTRUCTION DETAILS FOR 'GAF ASPHALT SHINGLE ROOFING SYSTEM'



	DRAWING: VALLEY CLADDING DETAIL	DATE: 24 JUNE 2018	PAGE: 24	
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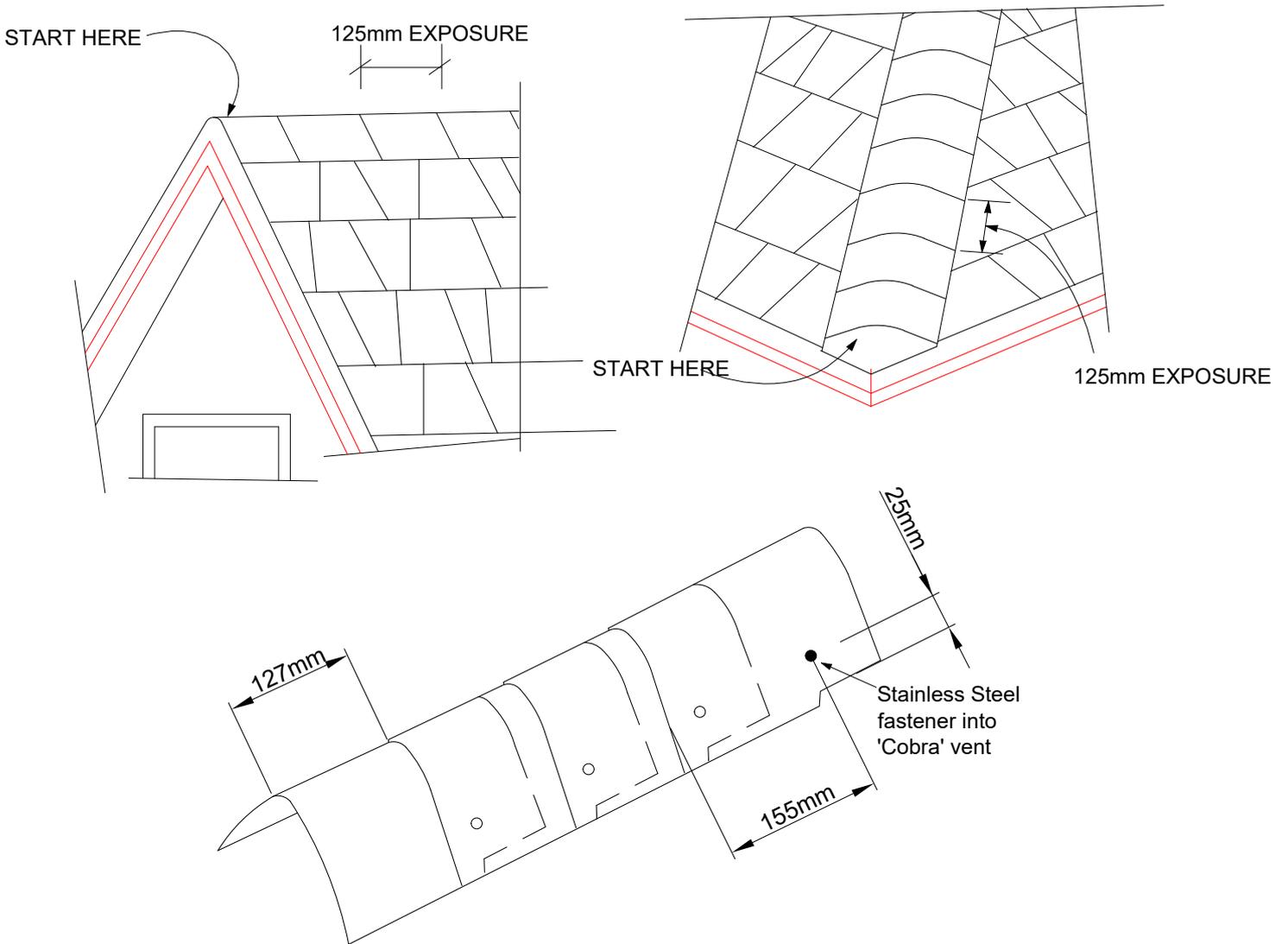
CONSTRUCTION DETAILS FOR 'GAF ASPHALT SHINGLE ROOFING SYSTEM'



PENETRATION WIDTH	MAX ROOF LENGTH ABOVE PENETRATION
800 TO 1200mm	4m
600 TO 800mm	6m
400 TO 600mm	8m
0 TO 400mm	10m

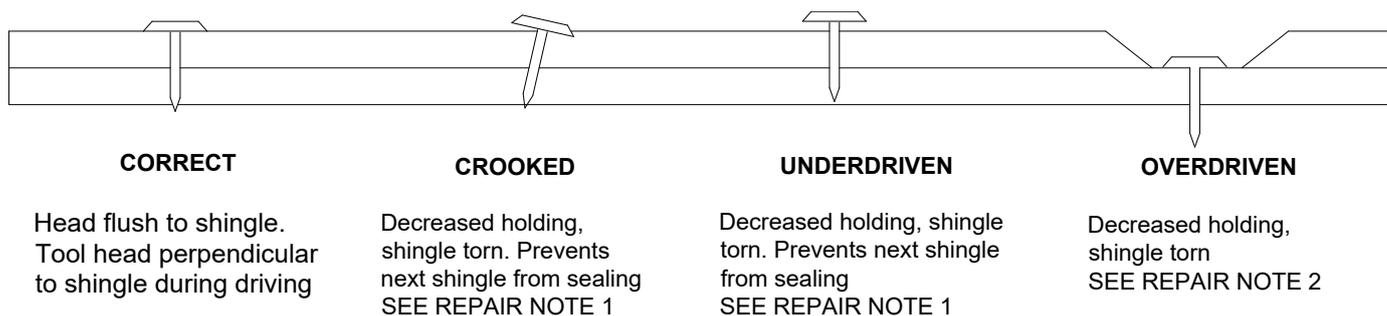
	DRAWING: PENETRATION OPENINGS	DATE: 24 JUNE 2018	PAGE: 25	
	DETAILS FOR: ASPHALT SHINGLE ROOFING	SCALE: N/A		

CONSTRUCTION DETAILS FOR 'GAF ASPHALT SHINGLE ROOFING SYSTEM'



	DRAWING: HIP & RIDGE CAPS	DATE: 24 JUNE 2018	PAGE: 26	
	DETAILS FOR: ASPHALT SHINGLE ROOFING	SCALE: N/A		

CONSTRUCTION DETAILS FOR 'GAF ASPHALT SHINGLE ROOFING SYSTEM'



REPAIR NOTE 1:
 FLATTEN NAIL HEAD TO PREVENT INTERFERENCE WITH NEXT SHINGLE

REPAIR NOTE 2:
 DRIVE ANOTHER NAIL NEARBY. SEAL OVERDRIVEN NAIL WITH 'HOLDFAST BLACK JACK' CEMENT

FASTENERS

While nailing is the preferred method for fixing raised roof profile shingles, GAF accept fastening methods according to the following instructions and in accordance with GAF specifications:

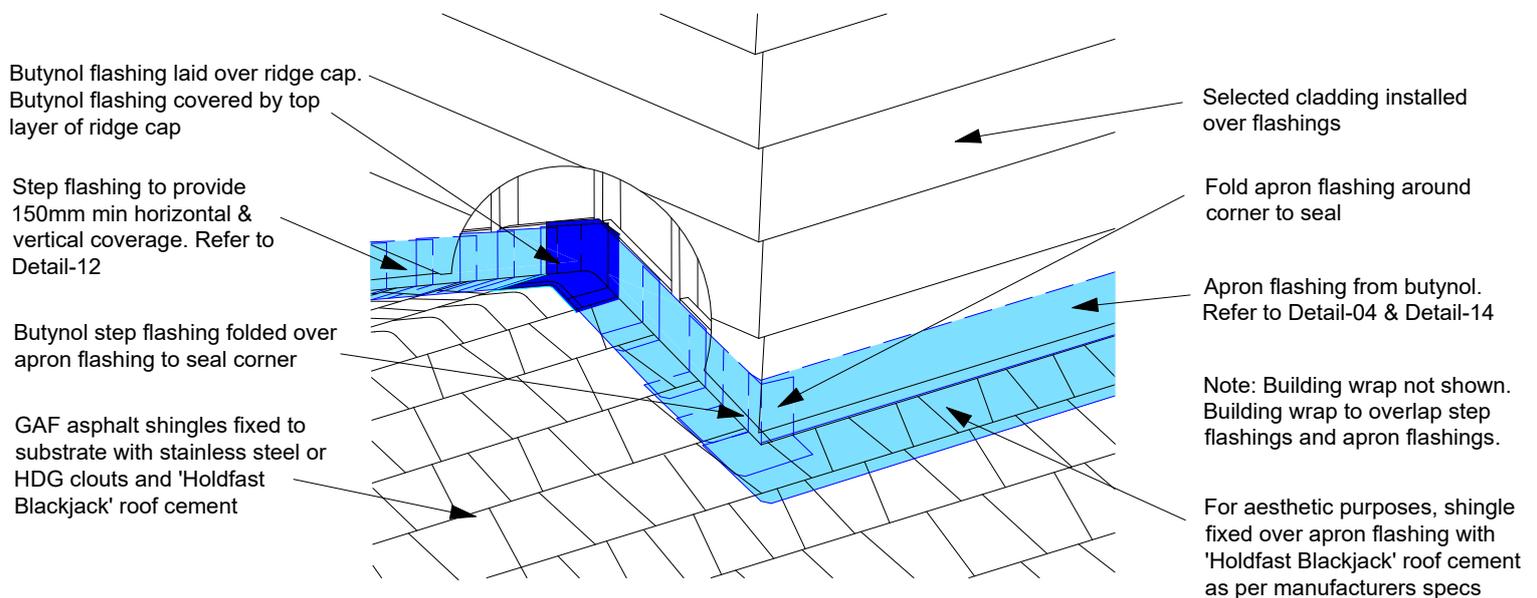
Always nail through the fastener line.

NAILS: refer to NZS 3604:2011 section 4.4 for corrosion protection requirements
 10mm Head 12 gauge roofing nails. GAF recommends 30mm nails for new roofs and 40mm for roof overs. In cases where applying shingles to a roof that has an exposed overhang, (new roofs only) 20mm ring shank nails are allowed to be used from the eaves edge to a point up the roof that is past the outside wall line. 25mm ring shank nails are allowed for re-roof.

NOTE: an improperly adjusted nail gun can result in under driven nails that can cause a fish mouthed appearance and can prevent sealing

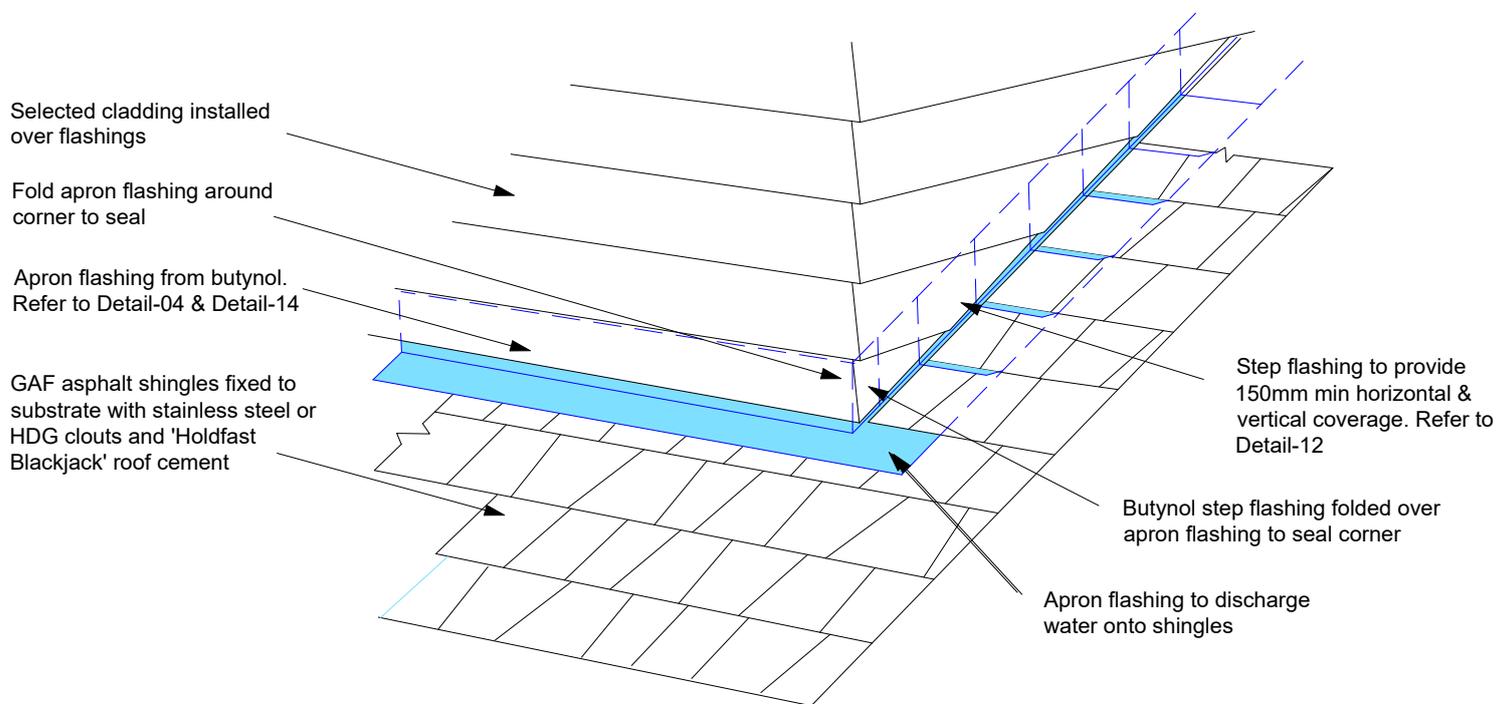
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CONSTRUCTION DETAILS FOR 'GAF ASPHALT SHINGLE ROOFING SYSTEM'



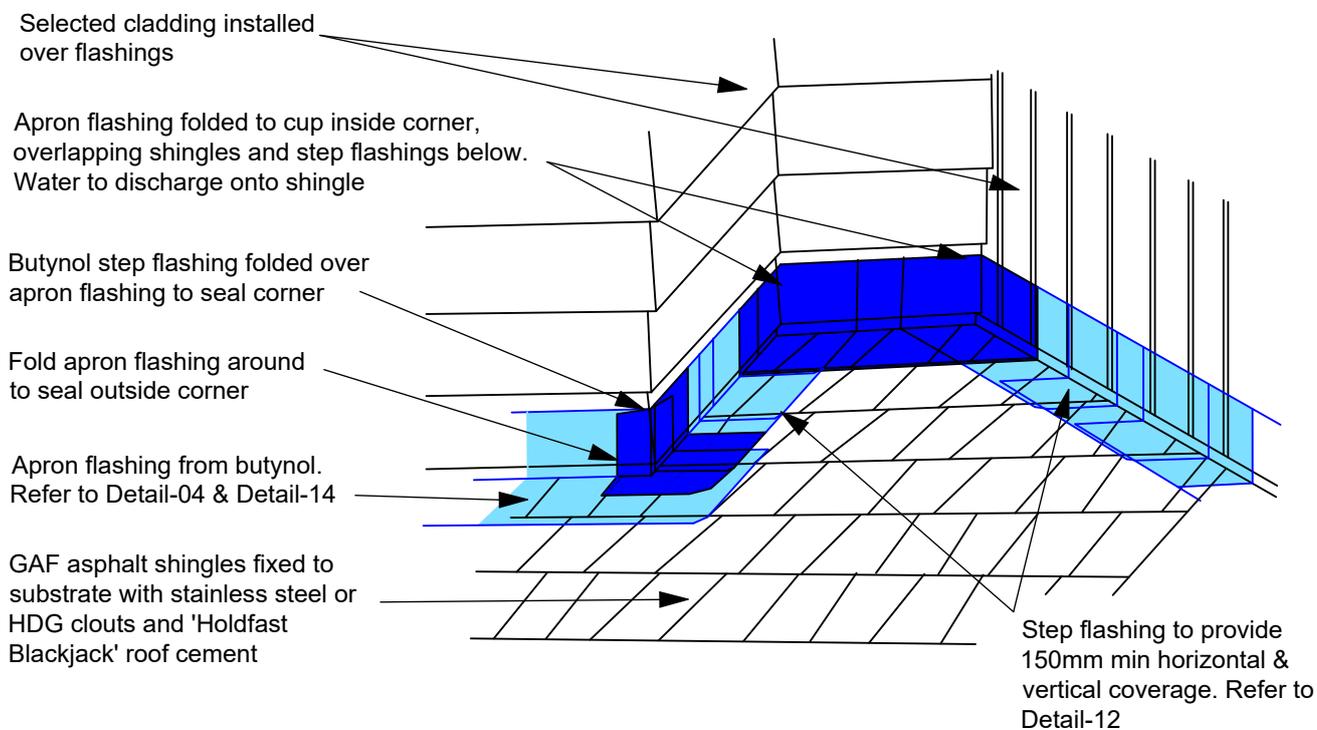
	DRAWING: RIDGE TO WALL	DATE: 30 AUG 2018	DETAIL: 28	
	DETAILS FOR: ASPHALT SHINGLE ROOFING	SCALE: N/A		

CONSTRUCTION DETAILS FOR 'GAF ASPHALT SHINGLE ROOFING SYSTEM'



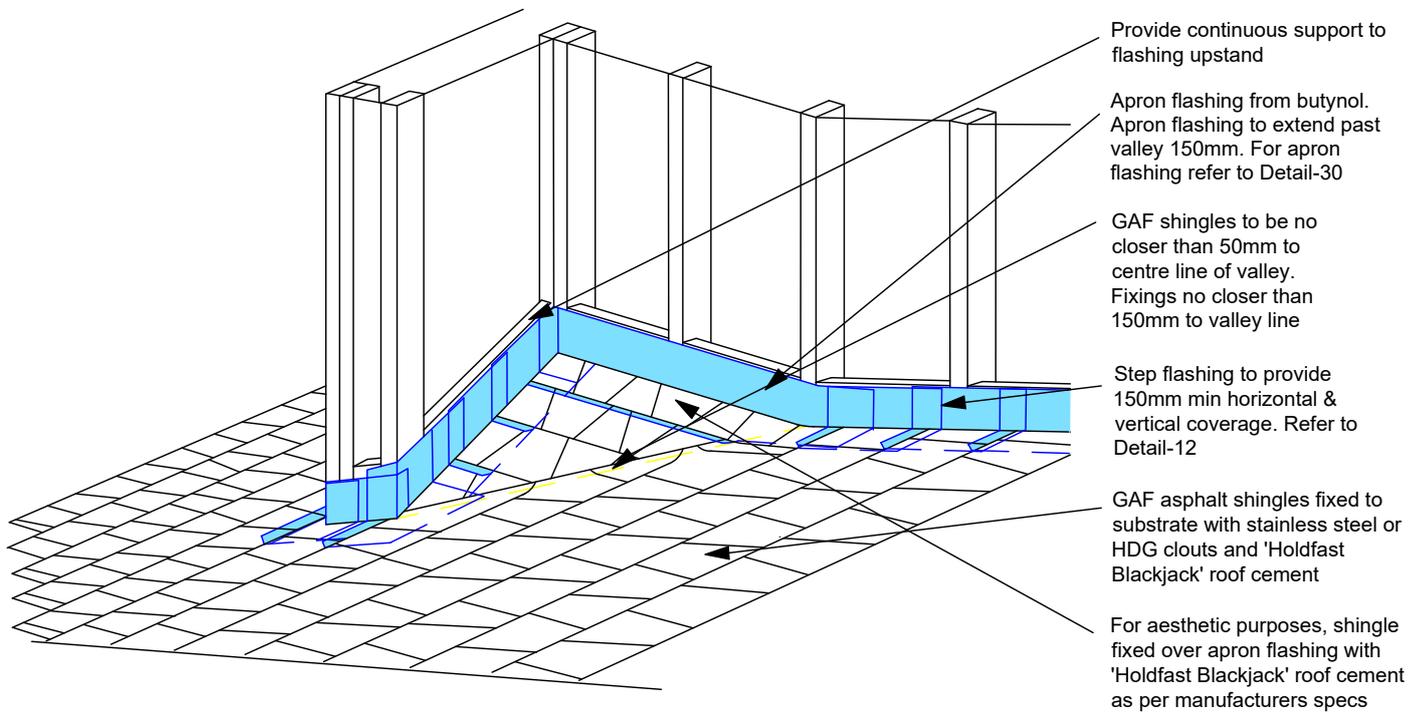
	DRAWING: ROOF TO WALL FLASHINGS	DATE: 30 AUG 2018	DETAIL: 29	 BRANZ Appraised Appraisal No 529
	DETAILS FOR: ASPHALT SHINGLE ROOFING	SCALE: N/A		

CONSTRUCTION DETAILS FOR 'GAF ASPHALT SHINGLE ROOFING SYSTEM'



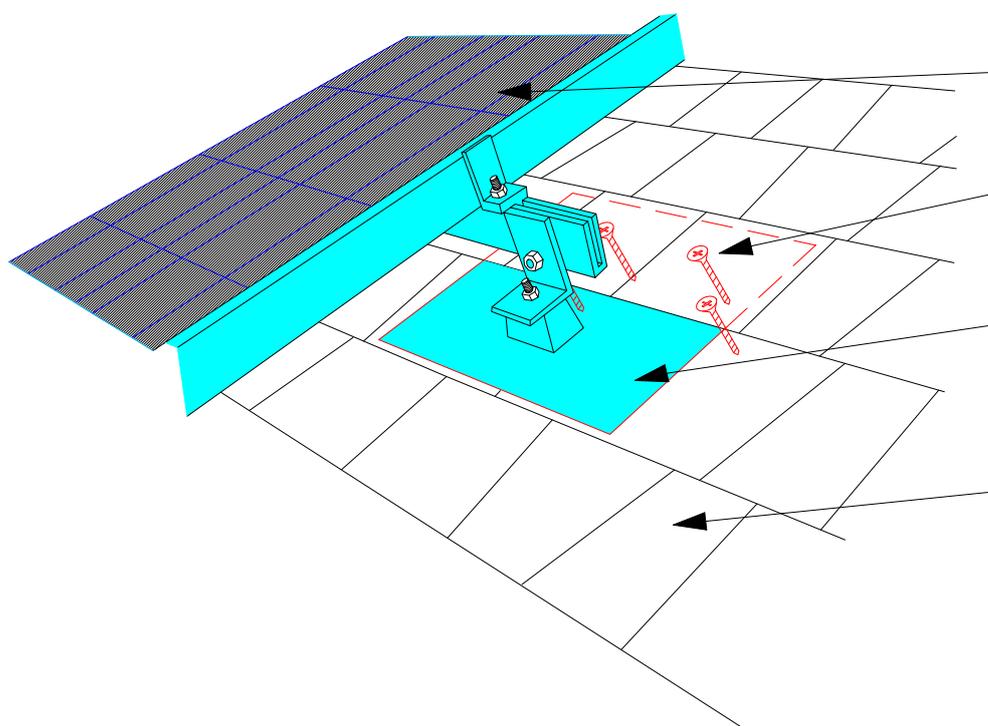
	DRAWING: ROOF TO WALL CORNERS	DATE: 30 AUG 2018	DETAIL: 30	
	DETAILS FOR: ASPHALT SHINGLE ROOFING	SCALE: N/A		

CONSTRUCTION DETAILS FOR 'GAF ASPHALT SHINGLE ROOFING SYSTEM'



	DRAWING: INTERNAL VALLEY / CRICKET	DATE: 30 AUG 2018	DETAIL: 31	 BRANZ Appraised Appraisal No 529
	DETAILS FOR: ASPHALT SHINGLE ROOFING	SCALE: N/A		

CONSTRUCTION DETAILS FOR 'GAF ASPHALT SHINGLE ROOFING SYSTEM'



PV Solar panel or other light weight roof mounted item

Counter sunk stainless steel screws, cauked and sealed. Lift shingle to insert screws, do not penetrate top layer of shingles

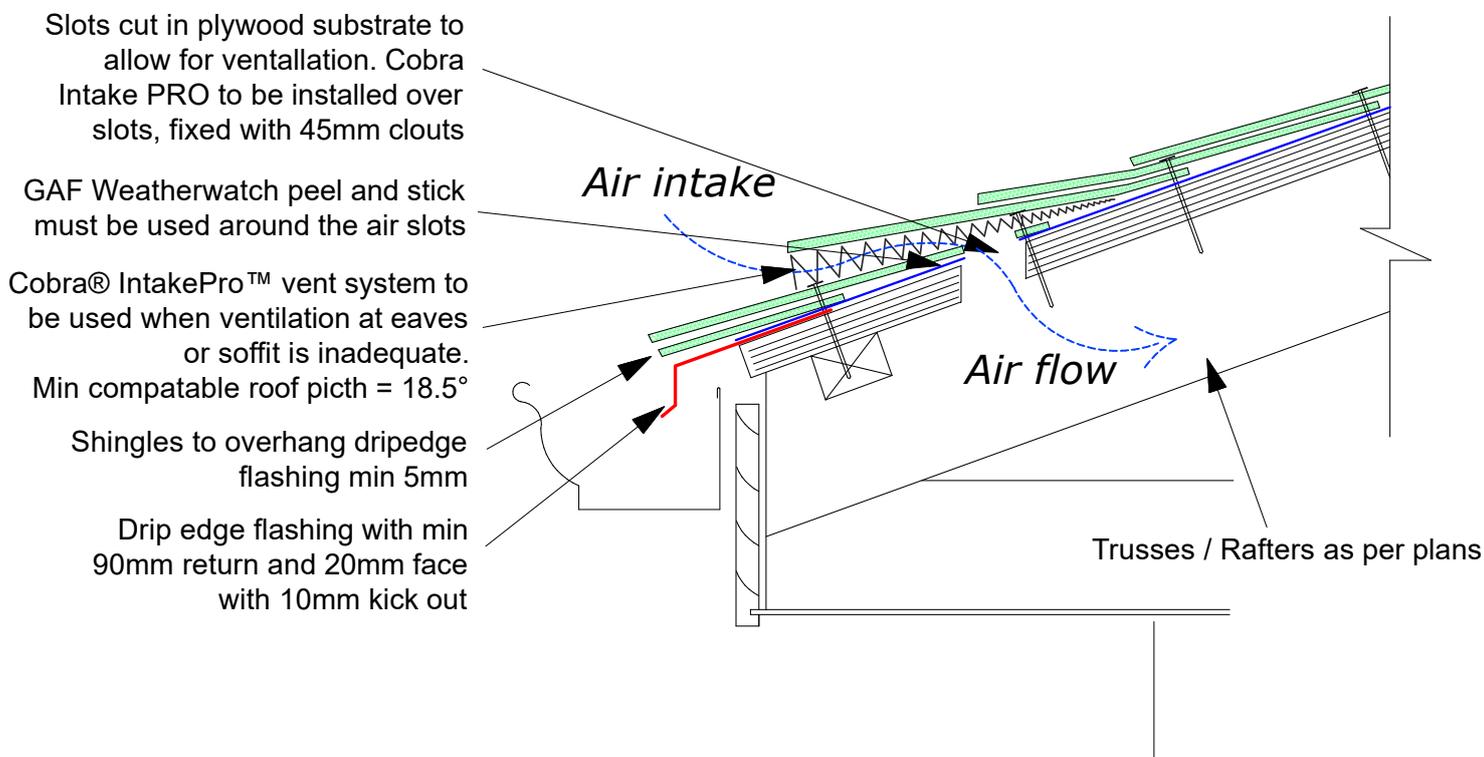
Typical mount bracket - Slide under top layer of shingles allowing rainwater to run off to shingles below.

GAF asphalt shingles fixed to substrate with stainless steel or HDG clouts and 'Holdfast Blackjack' roof cement

	DRAWING: PV SOLAR PANEL MOUNT	DATE: 30 AUG 2018	DETAIL: 32	 BRANZ Appraised Appraisal No 529
	DETAILS FOR: ASPHALT SHINGLE ROOFING	SCALE: N/A		

CONSTRUCTION DETAILS FOR 'GAF ASPHALT SHINGLE ROOFING SYSTEM'

Note: Cobra Intake-Pro must be installed to manufacturer's specifications and installation instructions.



	DRAWING: SURFACE INTAKE VENT	DATE: 30 JAN 2021	PAGE: 33.1	
	DETAILS FOR: ASPHALT SHINGLE ROOFING	SCALE: N/A		

CONSTRUCTION DETAILS FOR 'GAF ASPHALT SHINGLE ROOFING SYSTEM'

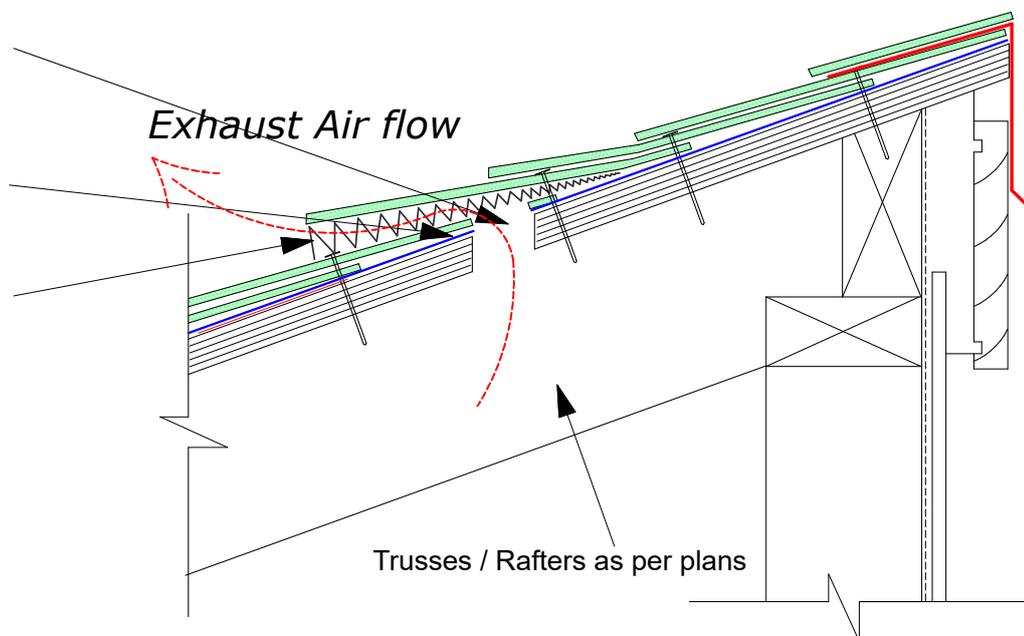
Note: Cobra Intake-Pro must be installed to manufacturer's specifications and installation instructions.

Slots cut in plywood substrate to allow for ventillation. Cobra Intake PRO to be installed over slots, fixed with 45mm clouts

GAF Weatherwatch peel and stick must be used around the air slots

Cobra® IntakePro™ vent system to be used as an option when ridge venting is inadequate / impossible. Min compatible roof pitch = 18.5°

Note: The amount of exhaust ventilation must never exceed the amount of intake ventilation at the soffit or eaves

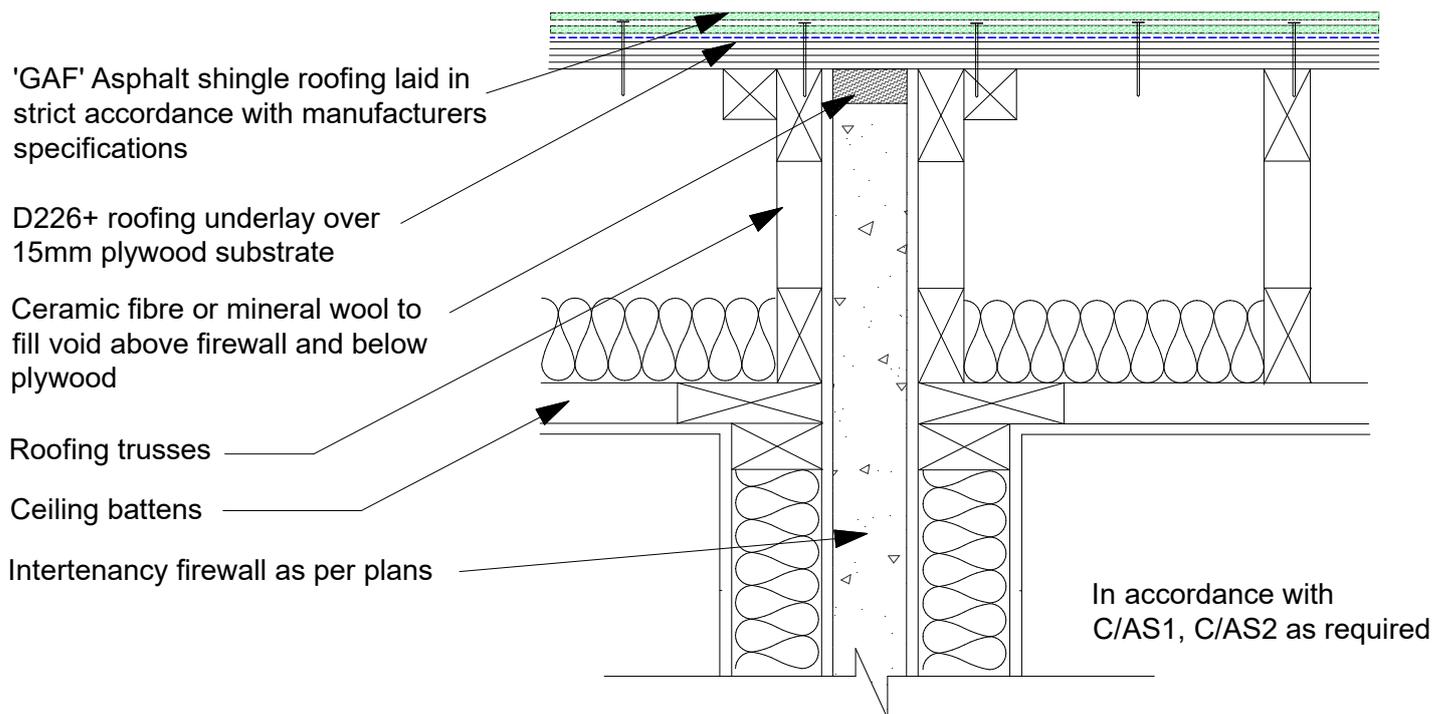


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	DETAILS FOR: ASPHALT SHINGLE ROOFING	SCALE: N/A		

CONSTRUCTION DETAILS FOR 'GAF ASPHALT SHINGLE ROOFING SYSTEM'

Note: This cross-boundary intertenancy detail has been reviewed and approved by the Branz Fire Engineer team as being compliant with NZBC C including all relevant subsections and clauses. The GAF shingle tile and plywood substrate roofing system is suitable for use above cross-boundary intertenancy firewall firecells, and to eaves requiring FRR.

Fire Classification: GAF asphalt shingles have been tested for fire classification Class A in accordance with UL790 (ASTM E108). Shingles tested in accordance with UL790 (ASTM E108) qualify for use under Section 1505.1 of the 2018, 2015, 2012, 2009 and 2006 IBC and Secion R902.1 of the 2018, 2015, 2012, 2009 and 2006 IRC



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CONSTRUCTION DETAILS FOR 'GAF ASPHALT SHINGLE ROOFING SYSTEM'

CONSTRUCTION NOTES:

READ THOROUGHLY BEFORE COMMENCING WORKS

ALL MATERIALS TO BE DRY AT THE TIME OF APPLICATION. UNDER NO CIRCUMSTANCES SHOULD ANY MATERIALS BE TORCH DRIED.

ALL SARKING AND SUBSTRATE MATERIALS TO BE DRY PRIOR TO LAYING OF WATERPROOF MEMBRANE. ENSURE ALL CONDENSATION AND RAINWATER HAS THOROUGHLY EVAPORATED PRIOR TO COMMENCEMENT OF WORKS.

ALL FLASHING AND FIXING MATERIALS TO BE CORROSION RESISTANT AND APPROVED FOR THE CORROSION ZONE AS SPECIFIED BY THE NEW ZEALAND BUILDING CODE AND NZS 3604:2011.

SEA SPRAY ZONES - TYPE 304 STAINLESS STEEL
ALL OTHER ZONES - TYPE 304 STAINLESS STEEL OR HOT DIP GALVANISED WITH ADDITIONAL PROTECTION AS PER NZS 3604:2011 4.4.4 AND 4.4.5 REQUIREMENTS.

FOR HIGH, VERY HIGH AND EXTRA WIND ZONES, THE NUMBER OF FIXINGS PER SHINGLE SHALL BE 6 NAILS PER TILE AND ALL SHINGLE RAKES AND EAVES TO BE GLUED WITH APPROVED ROOFING CEMENT.

PLYWOOD SUBSTRATE TO BE LAID WITH STAGGERED JOINTS TO SHEET EDGES. ALL SHEET EDGES SHALL BE SUPPORTED WITH NOGGS OR ROOF FRAMING FOR FIXING UNLESS A STRUCTURALLY TESTED AND APPROVED TONGUE IN GROOVE EDGE SHALL PROVIDE EQUIVALENT OR BETTER SUPPORT. GALVANISED 'H' CLIPS CAN BE USED FOR SQUARE EDGE PLYWOOD.

ALL SHEETS TO BE LAID WITH A 3mm INTER SHEET EXPANSION JOINT
PLYWOOD SUBSTRATE SHALL BE LAID WITH THE FACE GRAIN AT RIGHT ANGLES TO THE SUPPORTS, UNDER NO CIRCUMSTANCES SHALL THE SARKING / SUBSTRATE BE LAID DIAGONALLY. ALL SARKING / SUBSTRATES SHALL HAVE A MAX OF 18% MOISTURE CONTENT AT THE TIME OF APPLICATION OF MATERIALS.

D226+ OR BRANZ 529 SPECIFIED UNDERLAY USED WITH ASPHALT SHINGLE ROOFING.
SEE BRANZ.529 2012

ALL UNDERLAYS TO BE LAID WITH MIN 100mm END LAPS.

CONSTRUCTION DETAILS FOR 'GAF ASPHALT SHINGLE ROOFING SYSTEM'

FIXING SPECIFICATIONS

1 ROOF PENETRATIONS:

ROOF DECKS / SUBSTRATES SHOULD BE DRY, WELL SEASONED 150X25 BOARDS OR EXTERIOR GRADE PLYWOOD.

2 UNDERLAY:

APPLY D226+ ROOFING UNDERLAY OVER PLYWOOD SUBSTRATE IN ACCORDANCE WITH NZBC E2 REQUIREMENTS 8.1.5. ALL ROOF UNDERLAYS SHALL HAVE LAPS NO LESS THAN 100mm, ROOF UNDERLAYS SHALL BE LAID HORIZONTALLY, WITH THE UPPER SHEETS LAPPED OVER LOWER SHEETS TO ENSURE WATER IS SHED TO THE OUTER FACE OF THE UNDERLAY.

3 ROOF PITCH

MIN ACCEPTABLE ROOF PITCH = 9°. FOR ROOF PITCHES 9 - 12 DEGREES COMPLETELY COVER ROOF WITH 2 LAYERS OF UNDERLAY OR 1 LAYER OF 'PEEL AND STICK' IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS. FOR ROOF PITCHES 12 DEGREES AND GREATER COMPLETELY COVER ROOF AREA WITH 1 LAYER OF ROOFING UNDERLAY.

4 SHINGLE STARTER COURSE

USE GAF STARTER STRIP OR A STRIP SHINGLE INVERTED WITH THE HEADLAP APPLIED AT THE EAVE EDGE. WITH AT LEAST 10mm TRIMMED FROM THE END OF THE FIRST SHINGLE, START AT THE RAKE EDGE OVERHANGING THE EAVE 12mm TO 20mm. FASTEN 50mm FROM THE LOWER EDGE AND 25mm FROM EACH SIDE. SHINGLES MAY BE APPLIED WITH A COURSE ALIGNMENT OF 45° ON THE ROOF.

1. FIRST COURSE

START AT RAKE AND CONTINUE COURSE WITH FULL SHINGLES LAID FLUSH WITH THE STARTER COURSE.

2. SECOND COURSE

START AT THE RAKE WITH THE SHINGLE HAVING 145mm TRIMMED OFF AND CONTINUE ACROSS ROOF WITH FULL LENGTH SHINGLES.

3. THIRD COURSE

START AT THE RAKE WITH THE SHINGLE HAVING 285mm TRIMMED OFF AND CONTINUE ACROSS WITH FULL LENGTH SHINGLES.

4. FOURTH COURSE

START AT THE RAKE AND CONTINUE ACROSS WITH FULL LENGTH SHINGLES ACROSS ROOF.

5. FIFTH AND SUCCEEDING COURSES

REPEAT THE APPLICATION AS SHOWN FOR SECOND, THIRD AND FOURTH COURSES. DO NOT RACK SHINGLES STRAIGHT UP THE ROOF.

5 FASTENERS

ALWAYS NAIL THROUGH THE FASTENER LINE. SHINGLING NAILS: STAINLESS STEEL GUN NAILS WITH 9mm HEAD, SEMI RING SHANKED, 32mm OR 25mm IN LENGTH WITH A 3mm DIAMETER SHANK. GAF RECOMMENDS 30mm FOR NEW ROOFS AND 40mm FOR ROOF OVERS. IN CASES WHERE APPLYING SHINGLES TO A ROOF THAT HAS AN EXPOSED OVERHANG, (FOR NEW ROOFS ONLY), 20mm RING SHANK NAILS ARE ALLOWED TO BE USED FROM THE EAVE EDGE TO A POINT UP THE ROOF THAT IS PAST THE OUTSIDE WALL LINE. 25mm RING SHANK NAILS ALLOWED FOR REROOF. NOTE: AN IMPROPERLY ADJUSTED NAIL GUN CAN RESULT IN UNDERDRIVEN NAILS THAT CAN CAUSE A FISHMOUTHED APPEARANCE AND PREVENT SEALING FASTENERS SHOULD BE LONG ENOUGH TO OBTAIN A 19mm PENETRATION OR PENETRATE THROUGH SUBSTRATE, WHICHEVER IS LESS.

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