

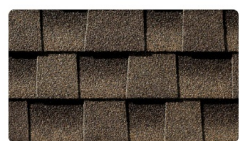


UltraGuard®
Roofing Systems

North America's Largest Roofing Manufacturer



TimberlineHDZ®
High Definition® Lifetime® Shingles



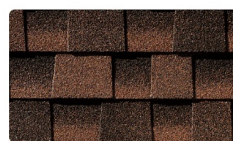
Barkwood HDZ



Charcoal HDZ



Pewter Gray HDZ



Hickory HDZ



Weathered Wood HDZ



Slate HDZ

GAF Shingle Roof Design

January 2025

New Zealand GAF Distributor

www.gafroofing.co.nz



System Description

GAF Asphalt Roof Shingles are glass-fibre reinforced asphalt shingles surfaced with ceramic coated mineral chips. They are available in the following series types: Timberline, Timberline Lifetime, Camelot, Camelot 2, Slateline and Grand Sequoia.

The shingles and flashing accessories form a roofing system when installed over a plywood substrate and roofing underlayment.

Scope

GAF Asphalt Roof Shingles have been appraised as a roof cladding for buildings within the following scope:

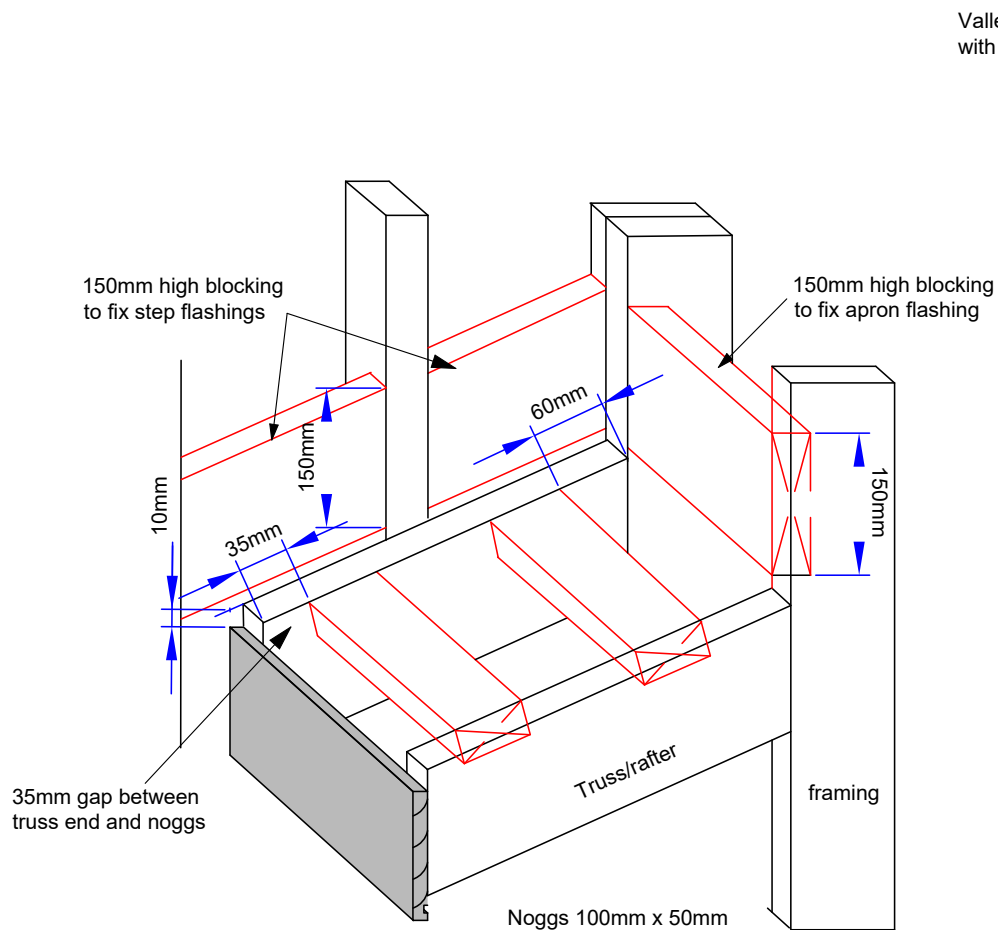
- the scope limitations of NZBC Acceptable Solution E2/AS1, Paragraph 1.1, with regard to floor plan area and building height; and,
- constructed with timber roof framing and plywood sheathing complying with the NZBC; and,
- where the roof slope is 9° or greater; and,
- situated in NZS 3604 Wind Zones up to, and including, Extra High.

The system must be installed in accordance with the Technical Literature by a Roofing Logistics NZ Ltd trained and approved installer.

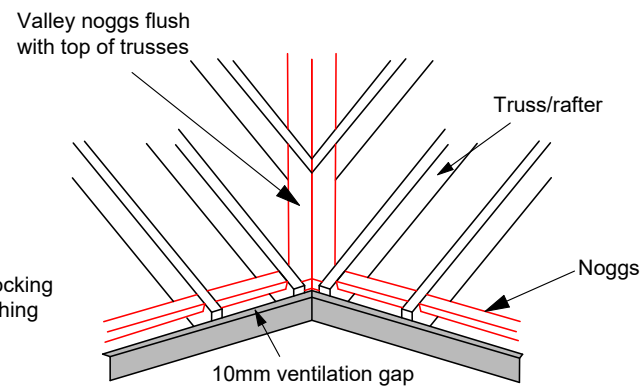
Shingle Roof Installation Details:

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S-100B ASPHALT SHINGLE SET OUT
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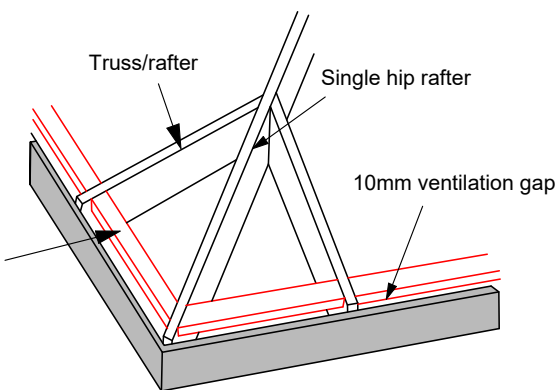
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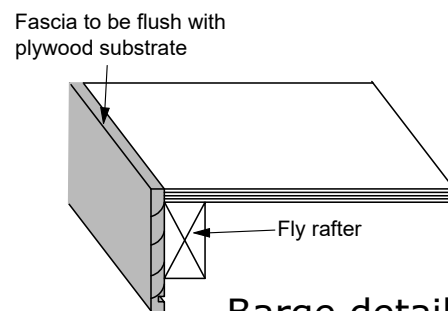
Wall roof intersection



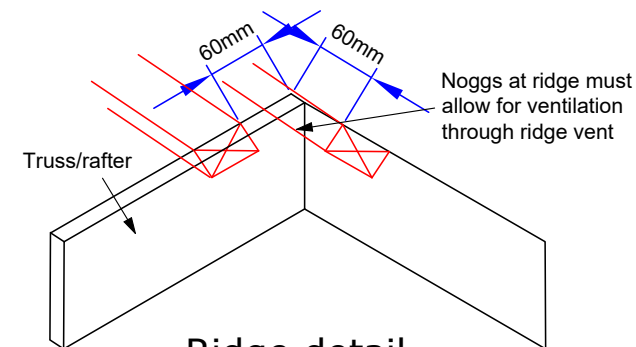
Valley detail



Hip detail



Barge detail

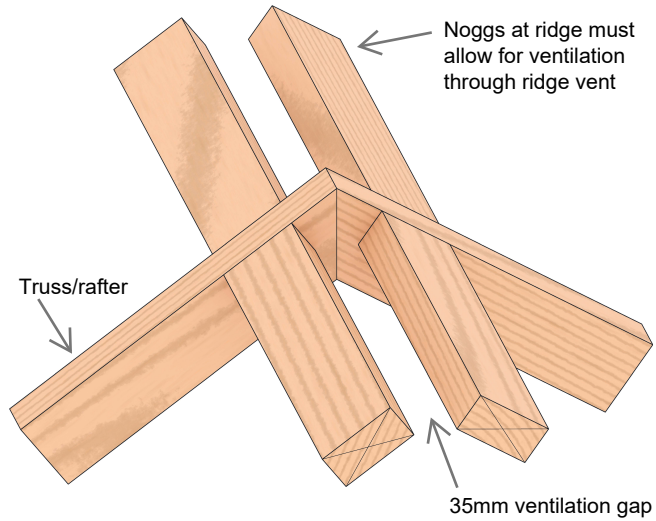


Ridge detail

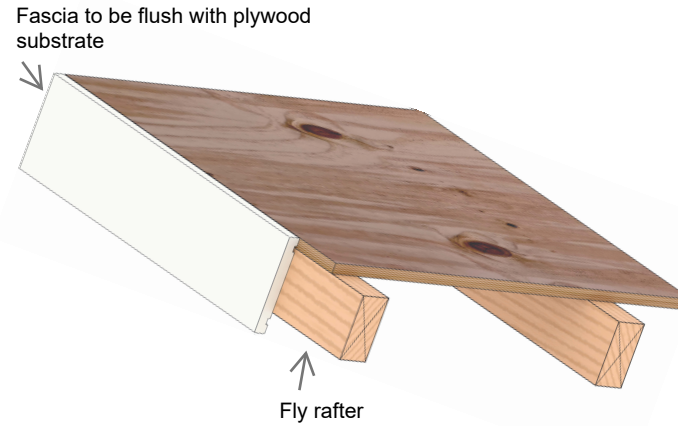
GAF Asphalt shingle roofing technical documents

Scale: N.T.S.

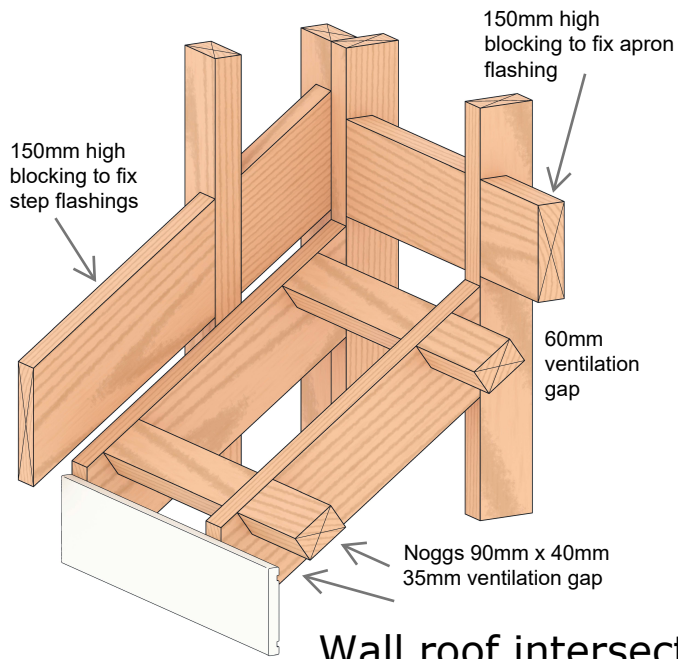
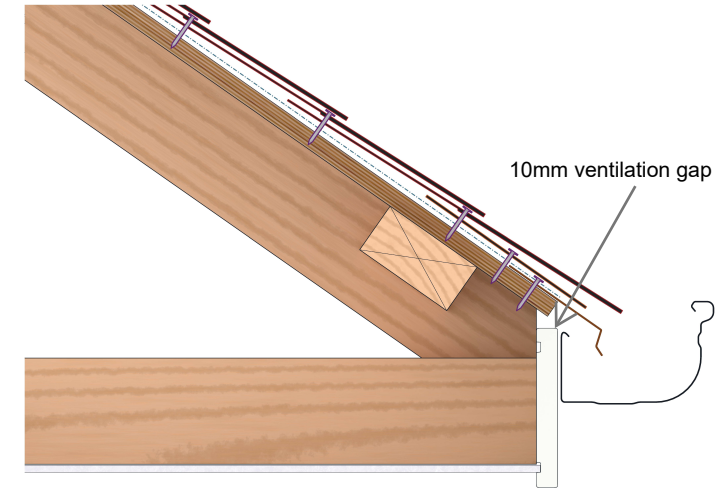
Ridge detail



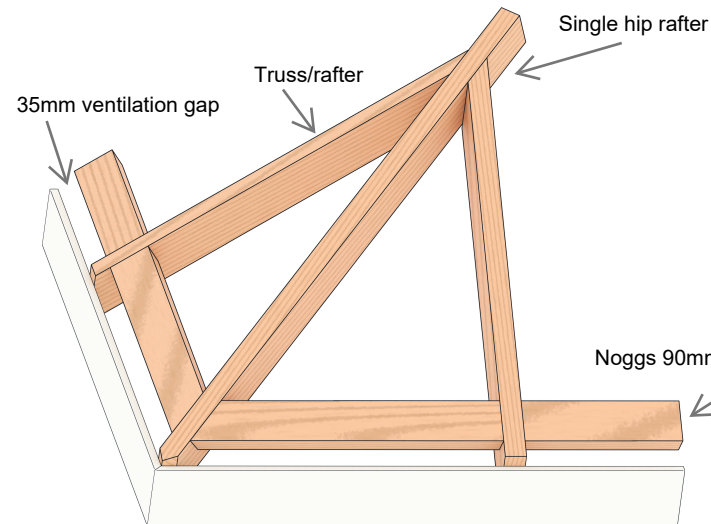
Barge detail



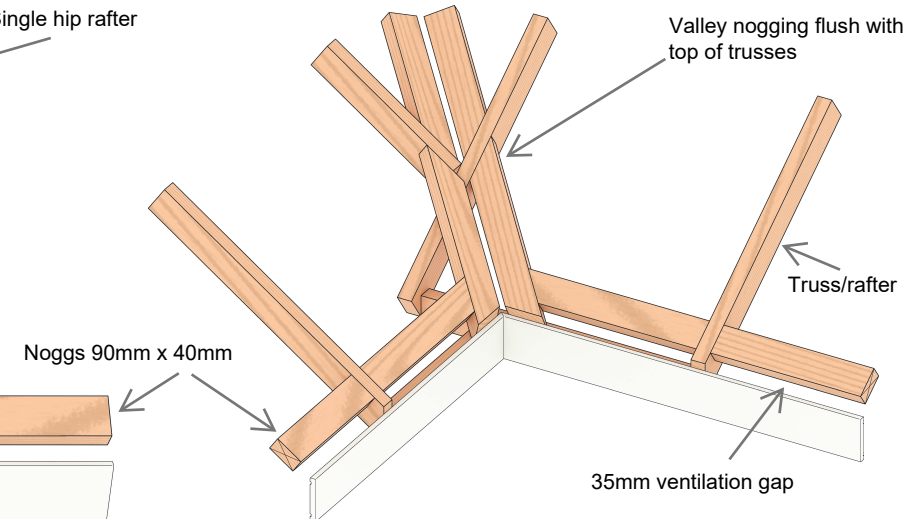
Eave detail



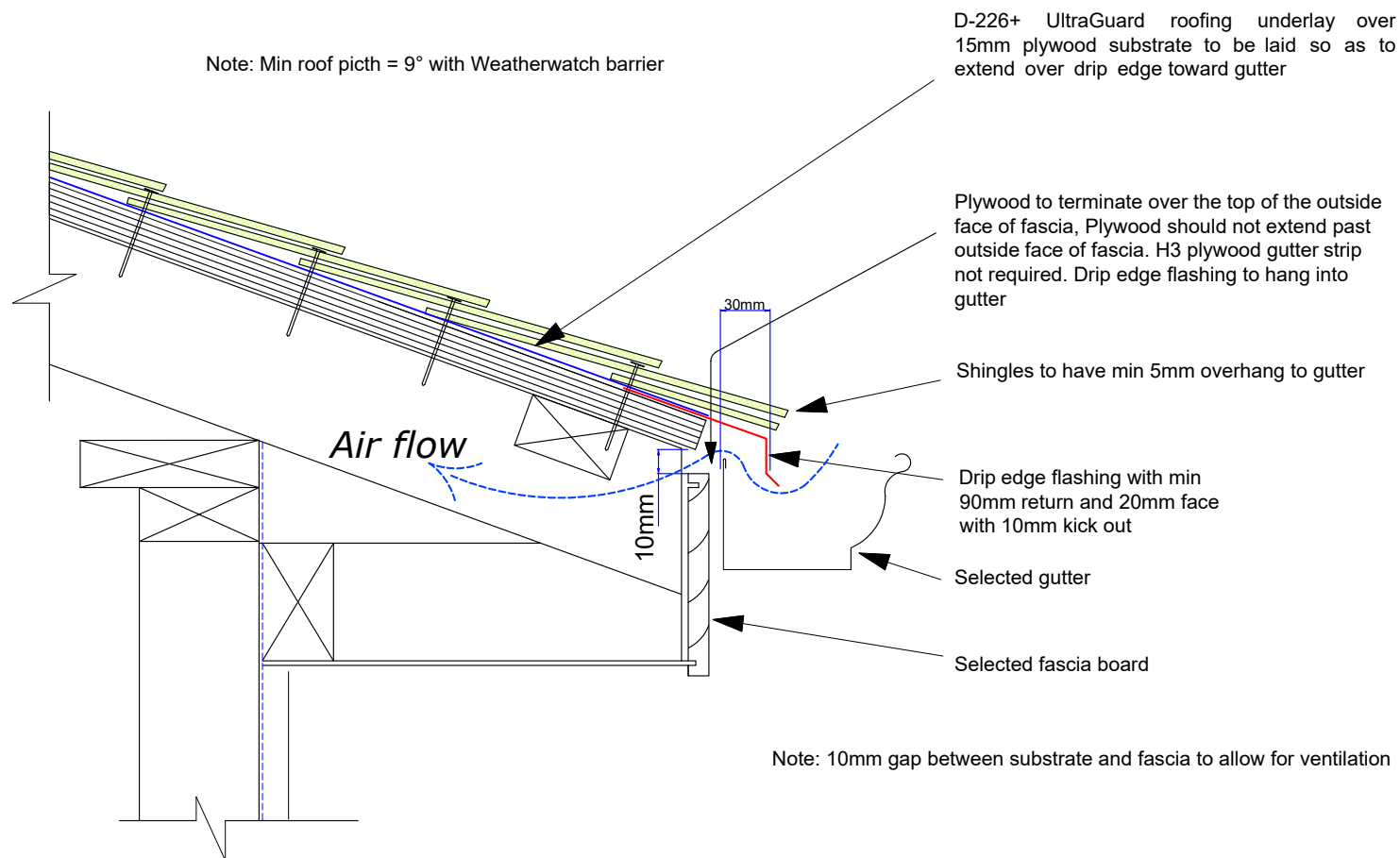
Wall roof intersection



Valley detail



Valley detail

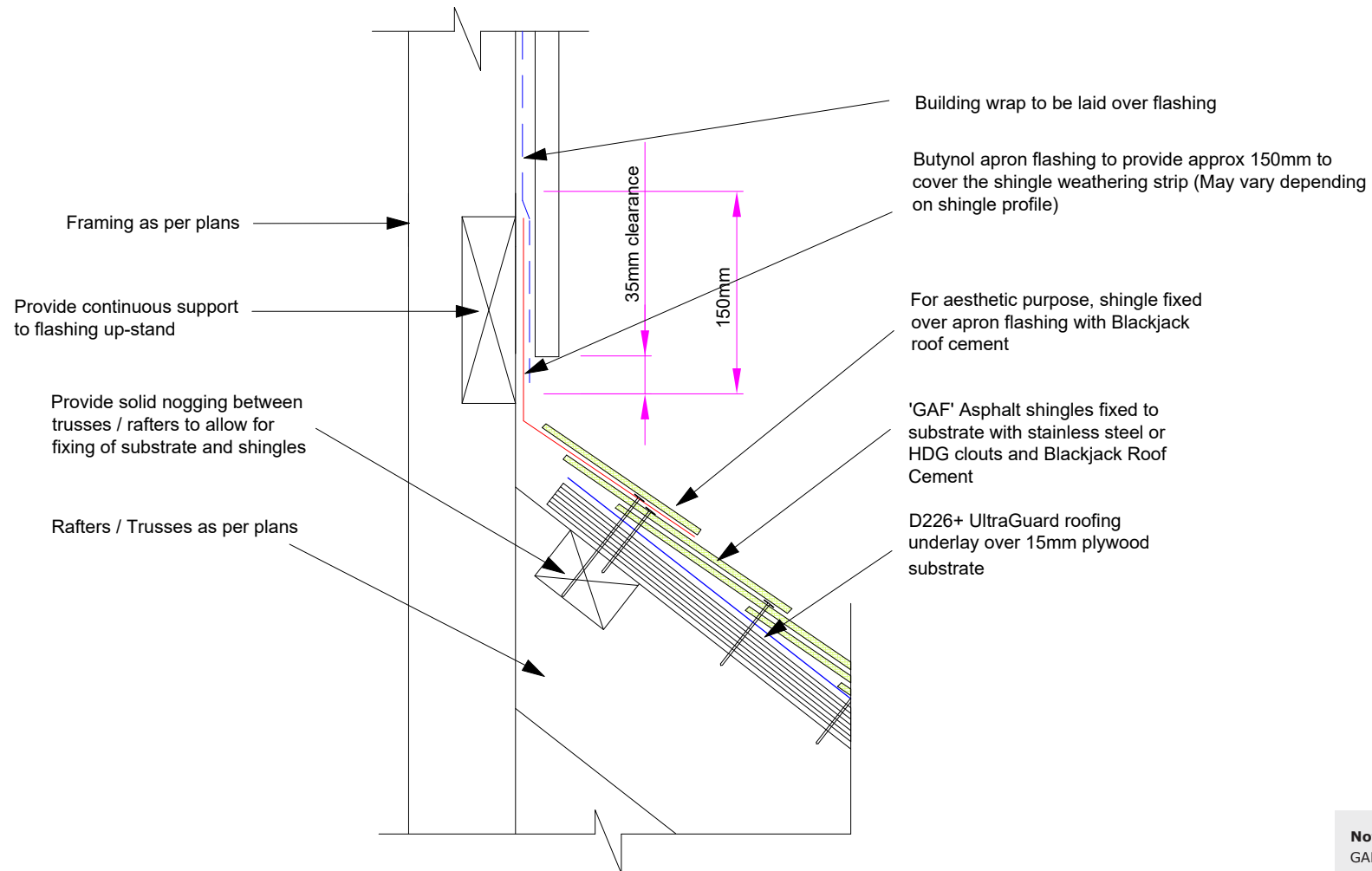


SHINGLE ROOF EAVE

Scale: N.T.S.

Notes:

It is recommended fascia to be installed before roof plywood substrate.

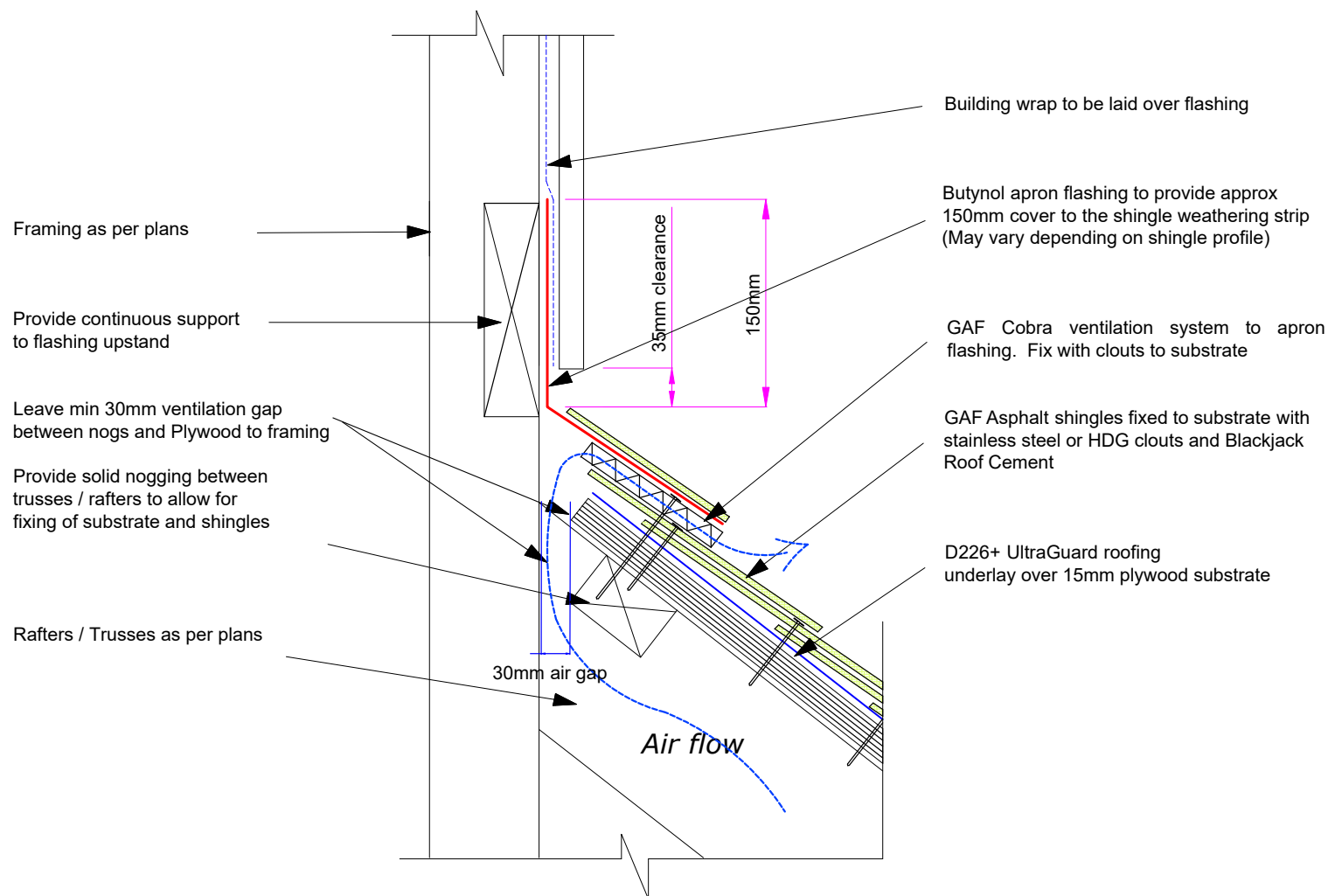


SHINGLE ROOF APRON FLASHING

Scale: N.T.S.

Notes:

GAF RT65 Masterflow box vent or other approved cavity vent maybe used.

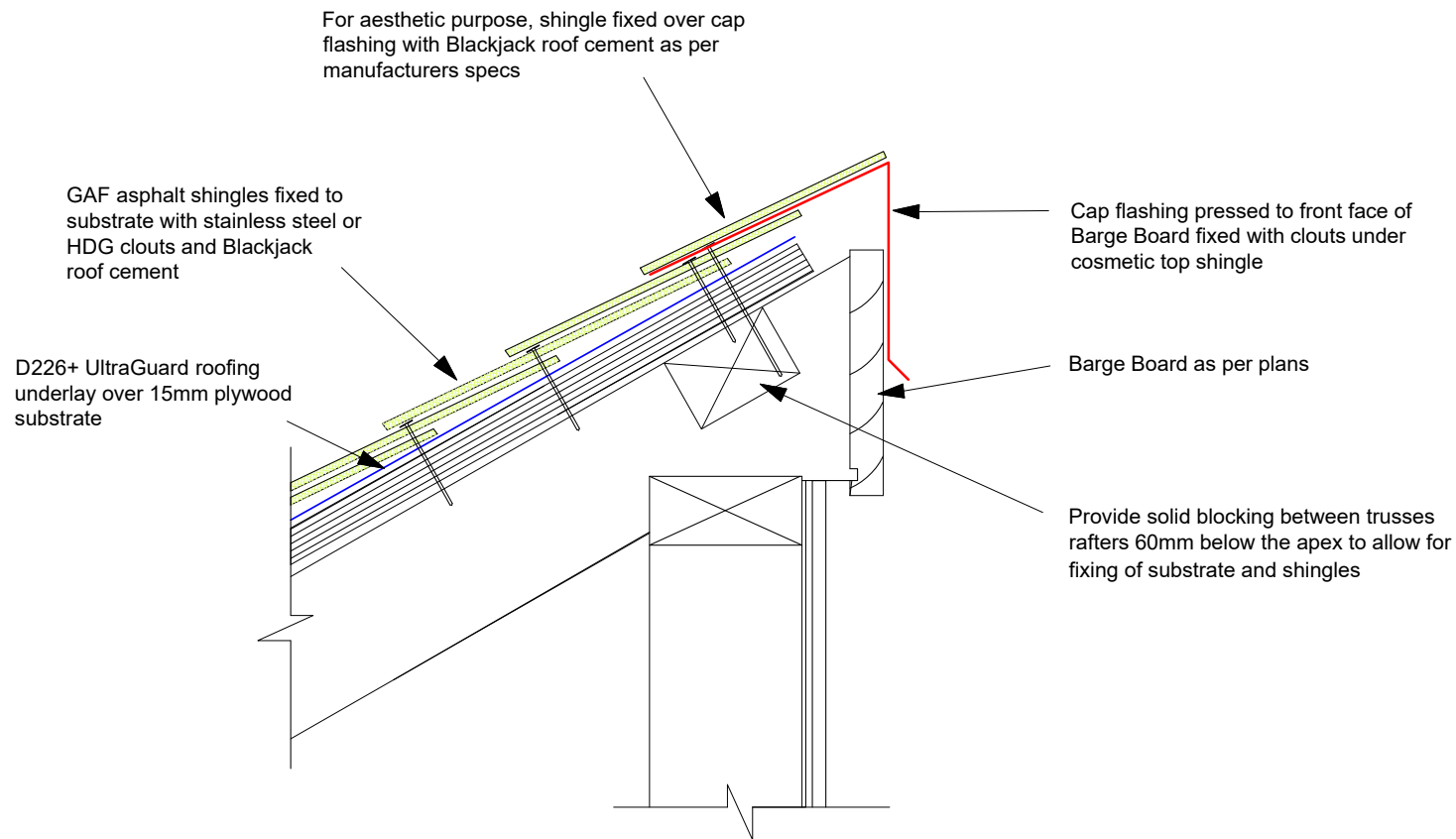


SHINGLE ROOF APRON FLASHING WITH VENT

Scale: N.T.S.

Notes:

GAF RT65 Masterflow box vent or other approved cavity vent maybe used instead of Cobra ventilation under the apron flashing.



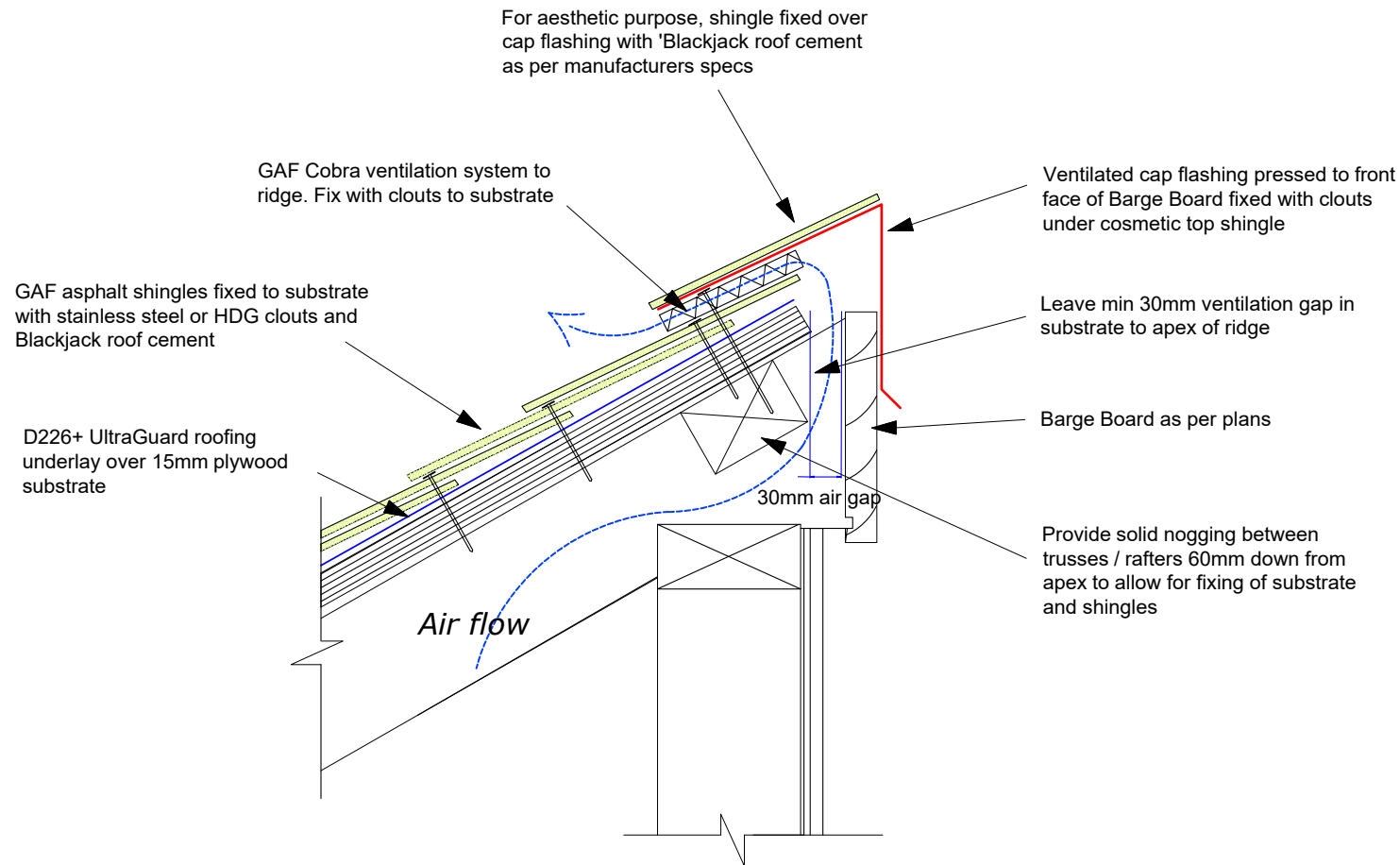
SHINGLE ROOF TO WALL RIDGE

Scale: N.T.S.

Notes:

GAF RT65 Masterflow box vent or other approved cavity vent maybe used instead of Cobra ventilation under the flashing.

Cavity or soffit vent can be used in place of roof vents as required.

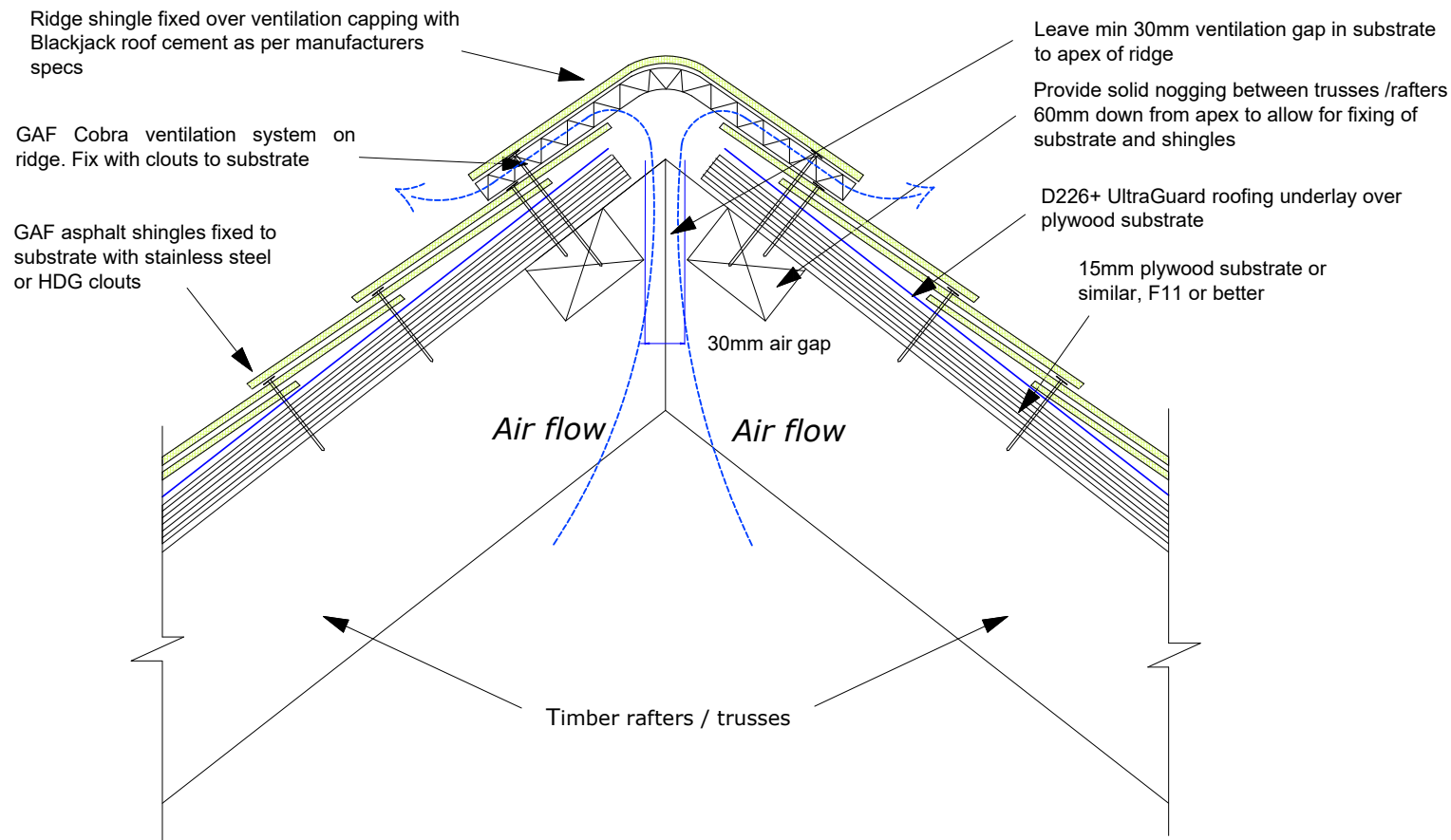


SHINGLE ROOF TO WALL RIDGE WITH VENT

Scale: N.T.S.

Notes:
GAF RT65 Masterflow box vent or other approved cavity vent maybe used instead of Cobra ventilation under the flashing.

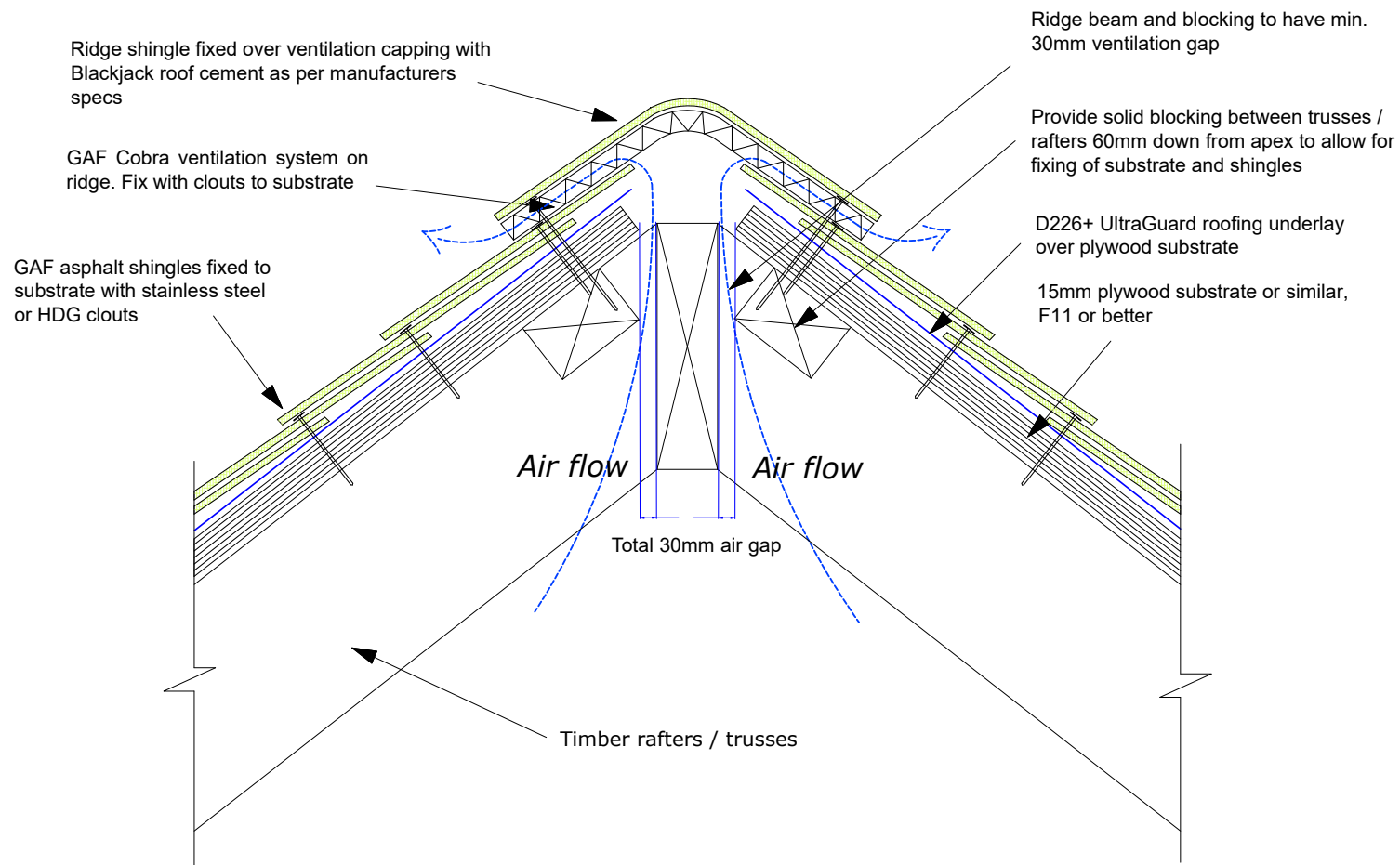
Cavity or soffit vent can be used in place of roof vents as required.



SHINGLE ROOF RIDGE CAP WITH VENT

Scale: N.T.S.

Notes:
GAF RT65 Masterflow box vent or other approved cavity vent maybe used instead of Cobra ventilation under ridge cap.

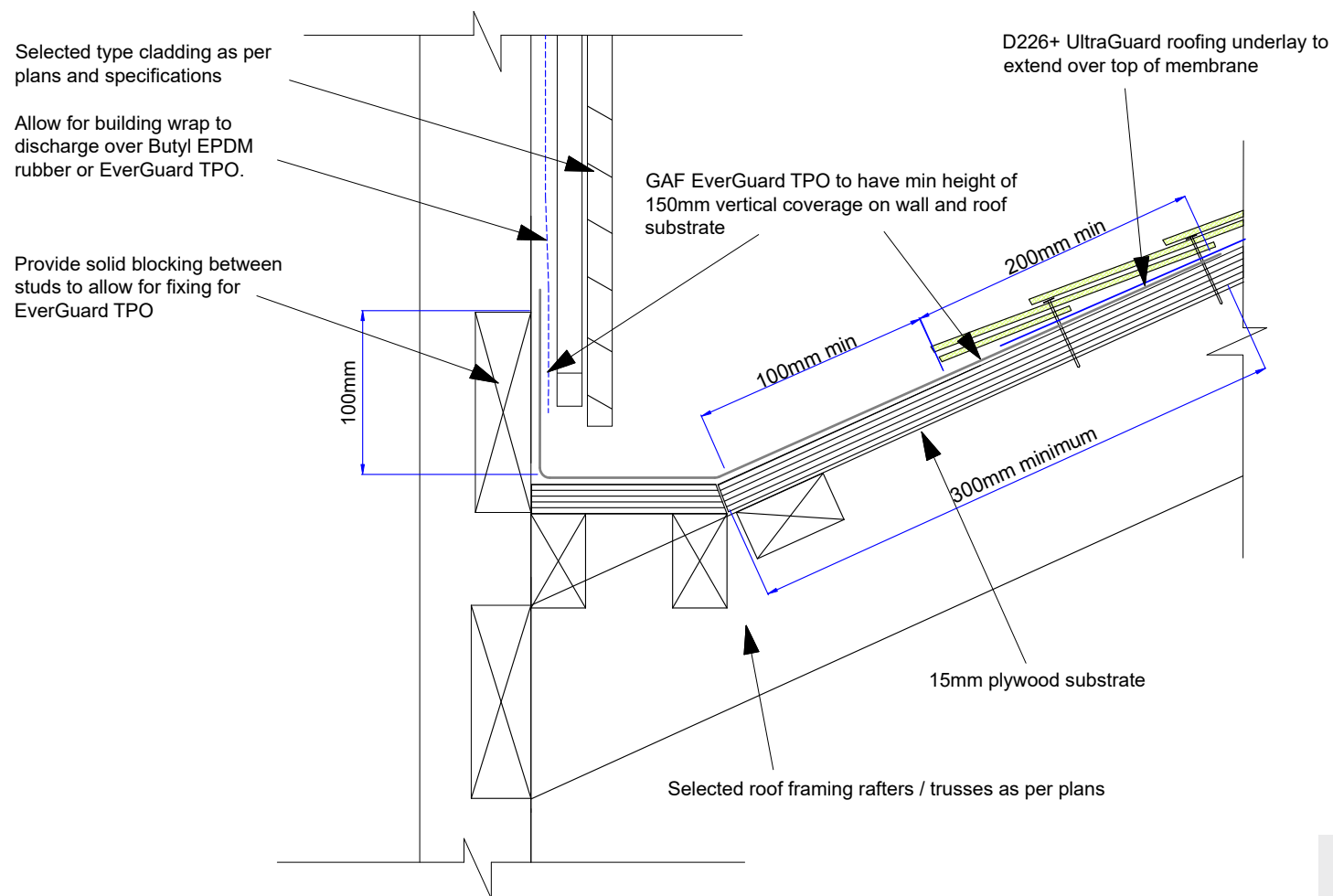


SHINGLE ROOF RIDGE BEAM WITH VENT

Scale: N.T.S.

Notes:

GAF RT65 Masterflow box vent or other approved cavity vent maybe used instead of Cobra ventilation under ridge cap.

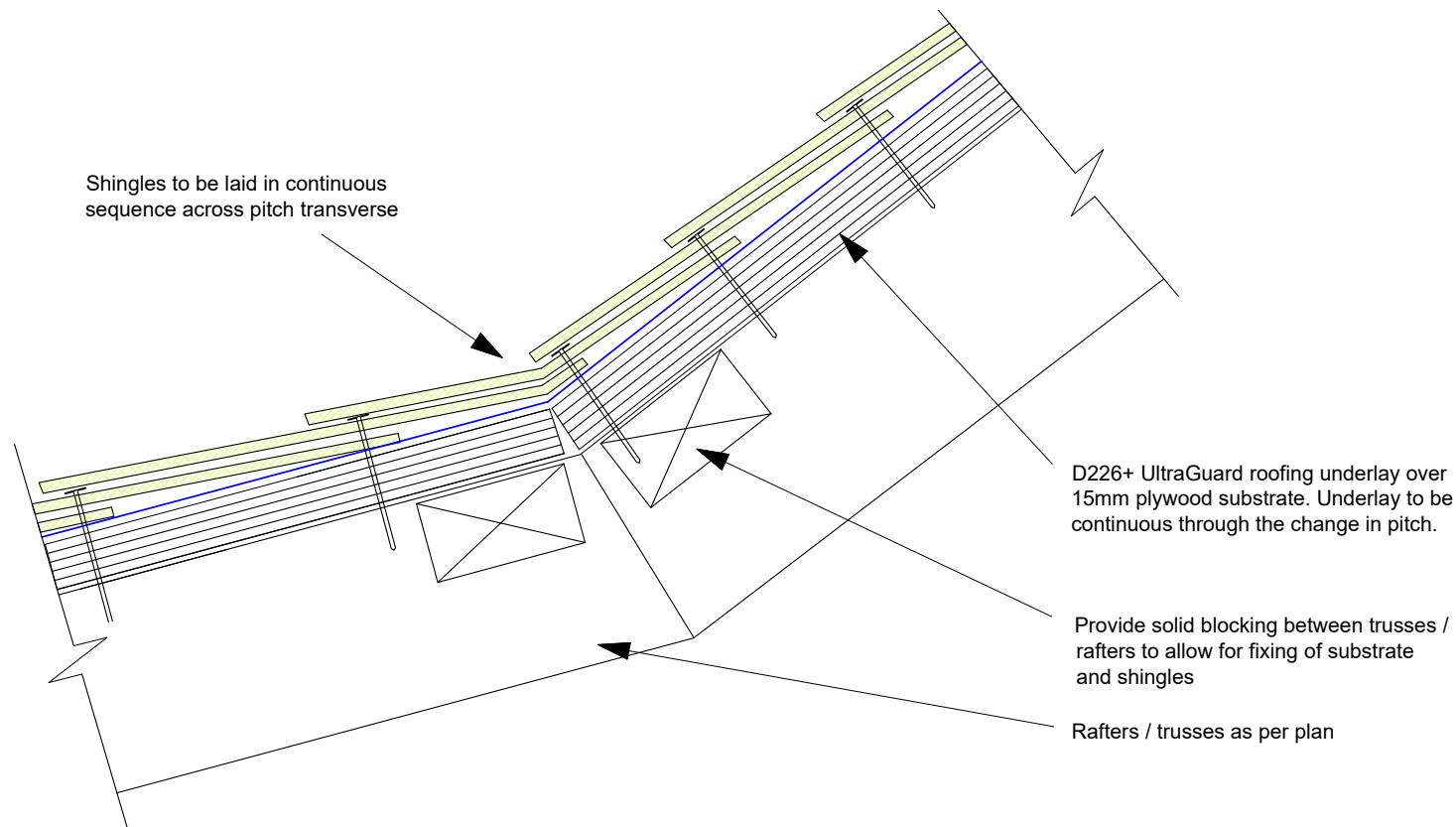


SHINGLE ROOF SLOPE TO WALL

Scale: N.T.S.

Notes:

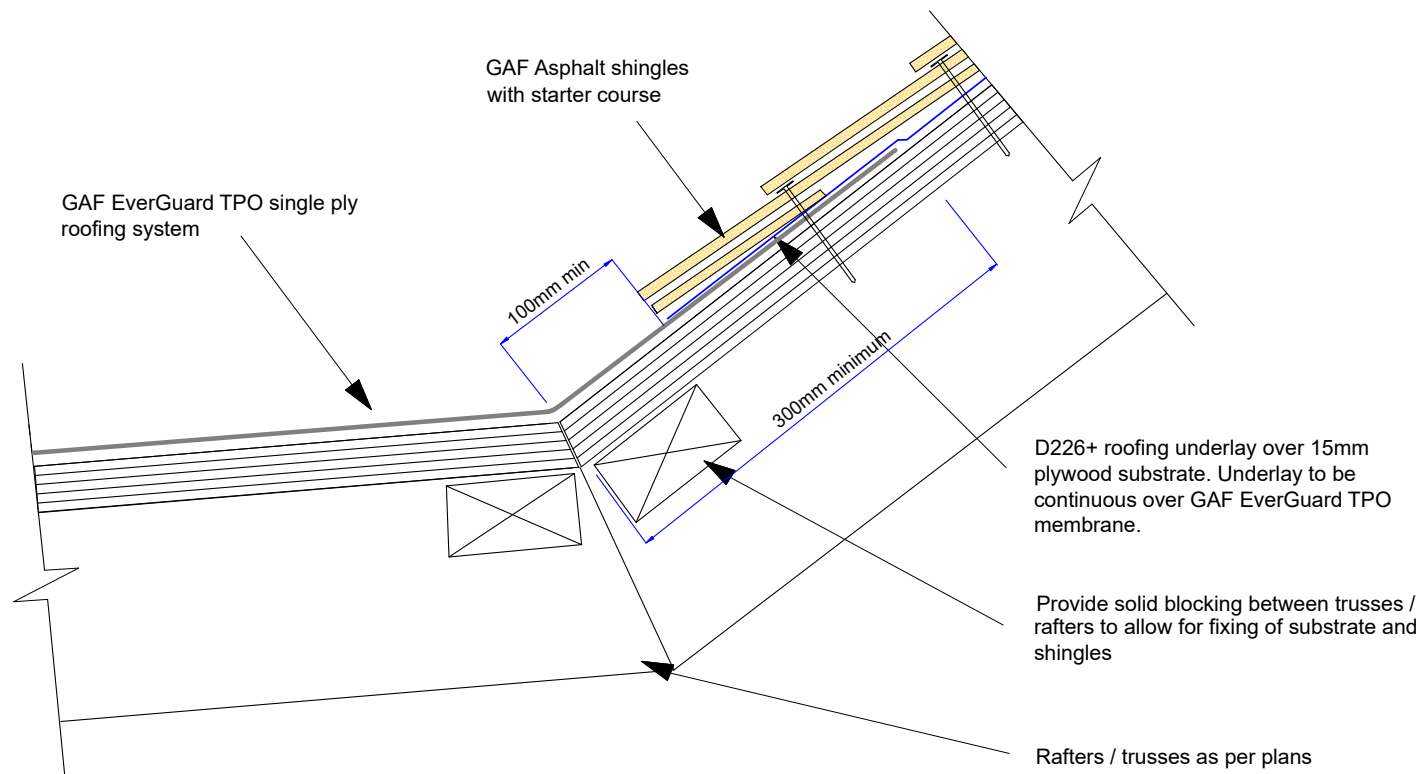
Membrane must not be punctured below 150mm level



SHINGLE ROOF PITCH CHANGE

Scale: N.T.S.

Notes:

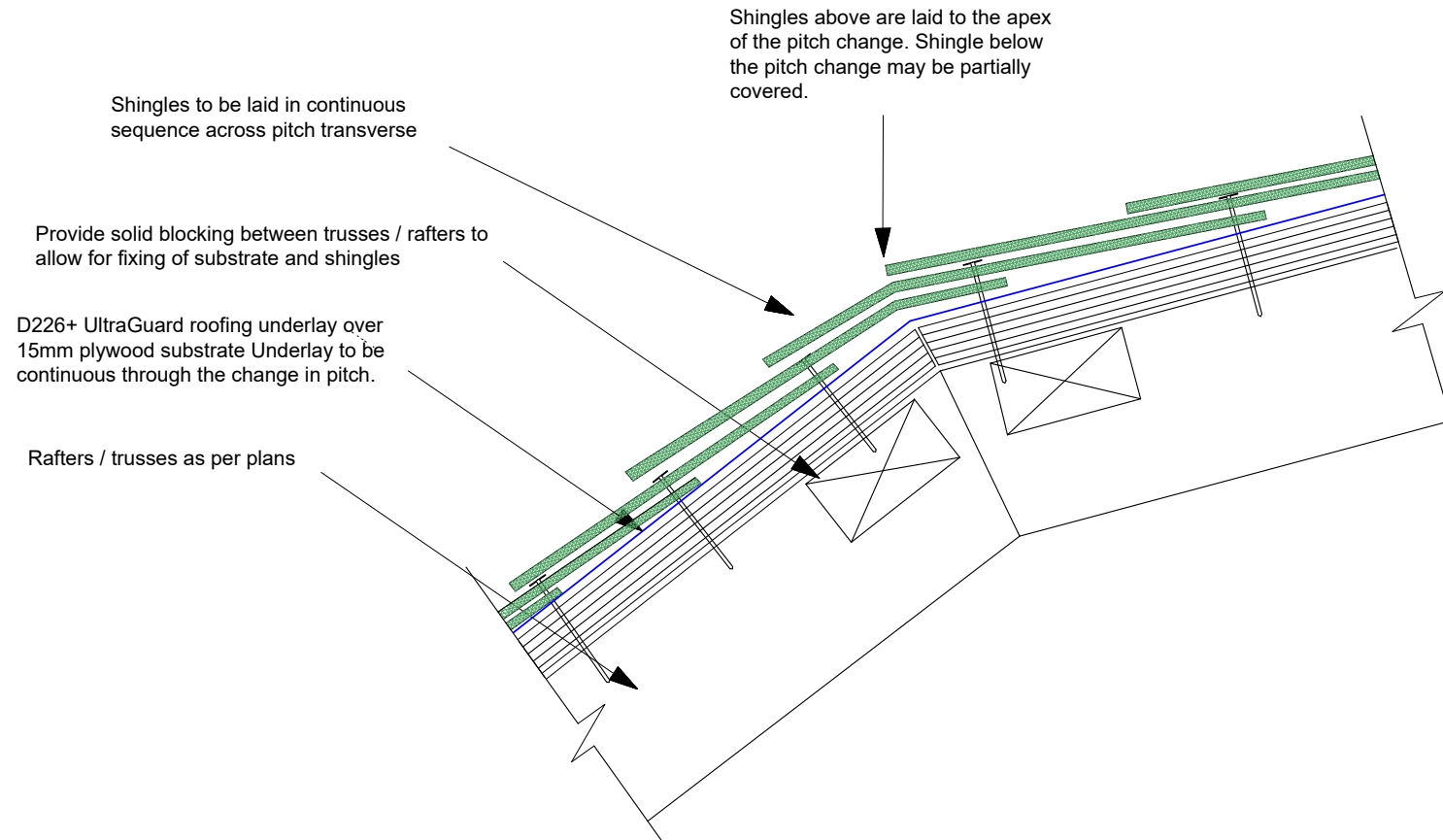


Notes:

Membrane must not be punctured below 150mm level

SHINGLE ROOF MEMBRANE TRANSITION

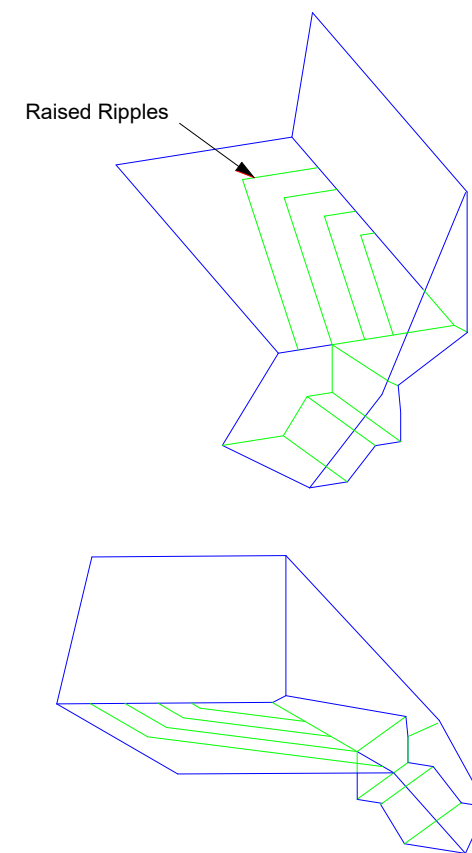
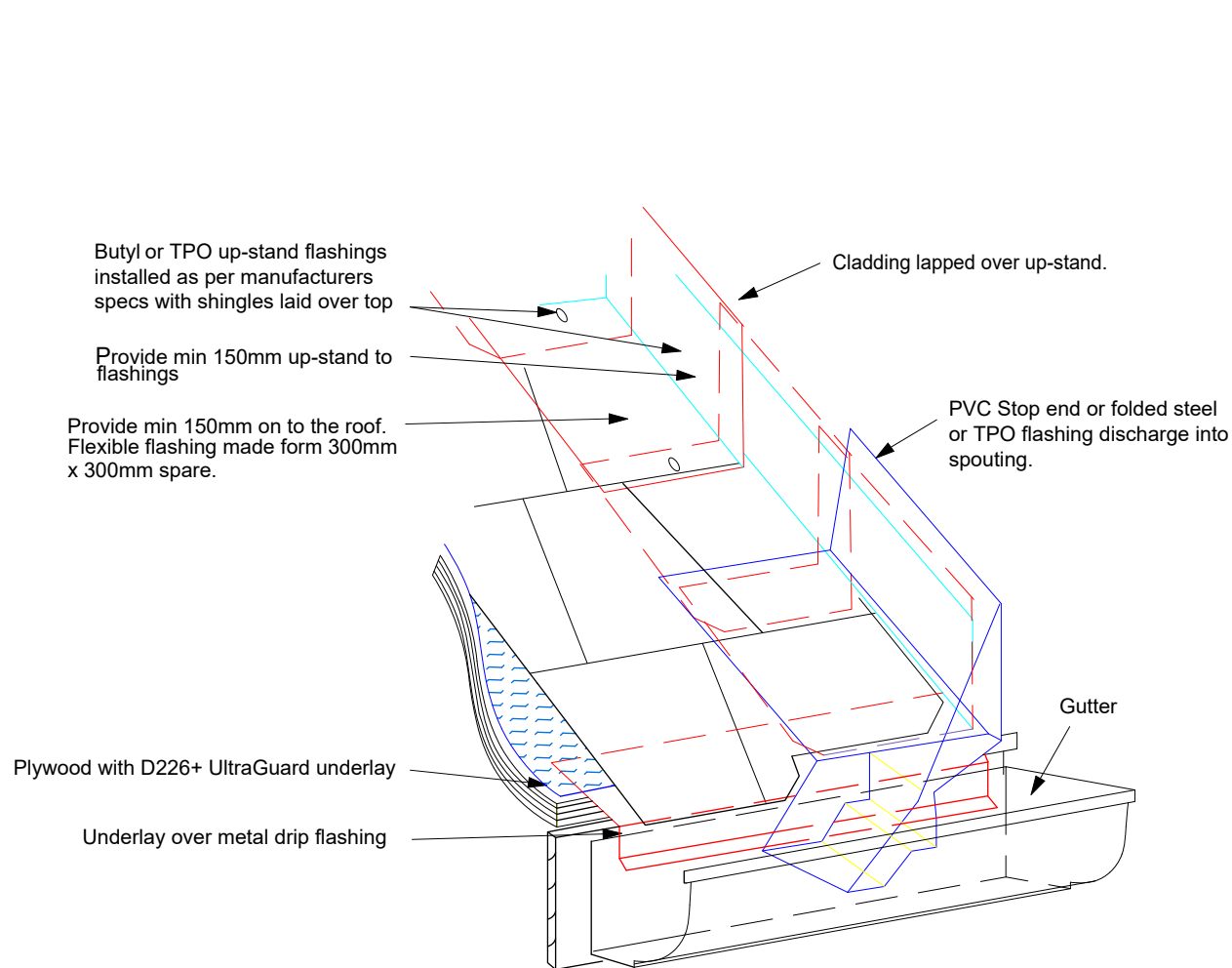
Scale: N.T.S.



SHINGLE ROOF PITCH CHANGE - MANSARD

Scale: N.T.S.

Notes:



SHINGLE ROOF PVC STOP END FLASHING

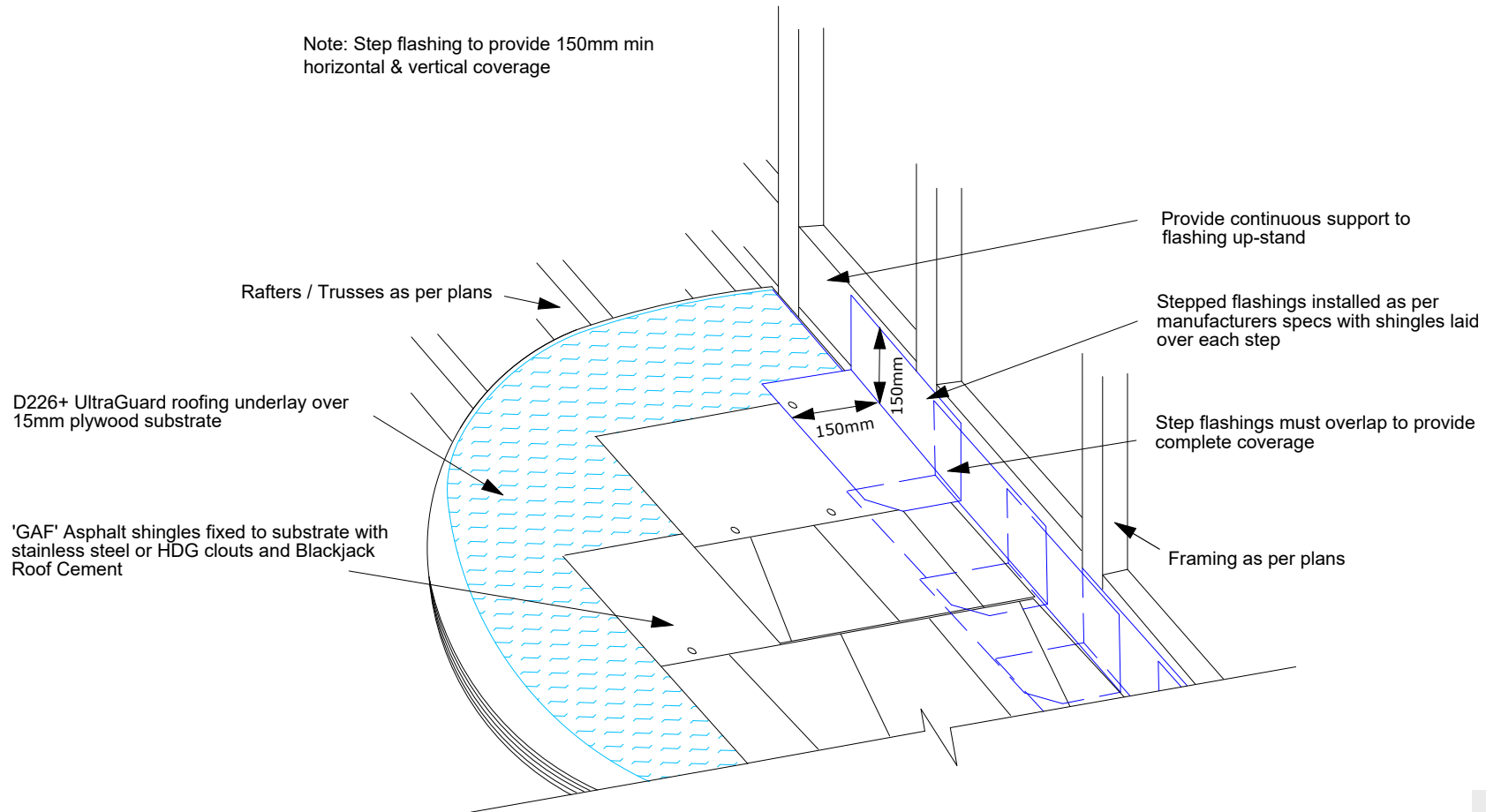
Scale: N.T.S.

Notes:

PVC stopend flashing come in a verity of pre-molded shapes and perform the same function.

For thicker cladding such at brick, the PVC stopend may not be suitable and instead can be formed from TPO of steel onsite

Note: Step flashing to provide 150mm min horizontal & vertical coverage



SHINGLE ROOF STEP FLASHING

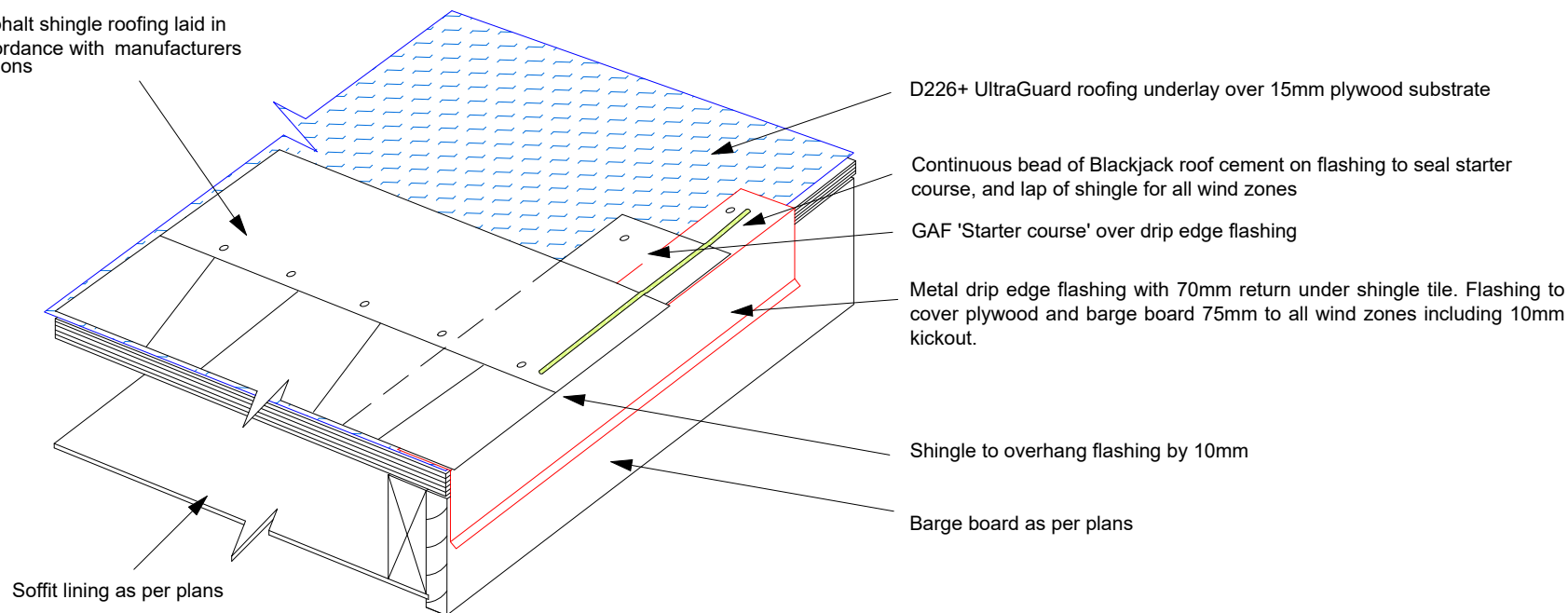
Scale: N.T.S.

Notes:

Step flashings are formed from Butyl or EPDM Rubber or TPO membrane sheet, 300mm x 300mm square.

Step flashings are fixed with shingle nails to the wall and plywood deck.

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



D226+ UltraGuard roofing underlay over 15mm plywood substrate

Continuous bead of Blackjac roof cement on flashing to seal starter course, and lap of shingle for all wind zones

GAF 'Starter course' over drip edge flashing

Metal drip edge flashing with 70mm return under shingle tile. Flashing to cover plywood and barge board 75mm to all wind zones including 10mm kickout.

Shingle to overhang flashing by 10mm

Barge board as per plans

Soffit lining as per plans

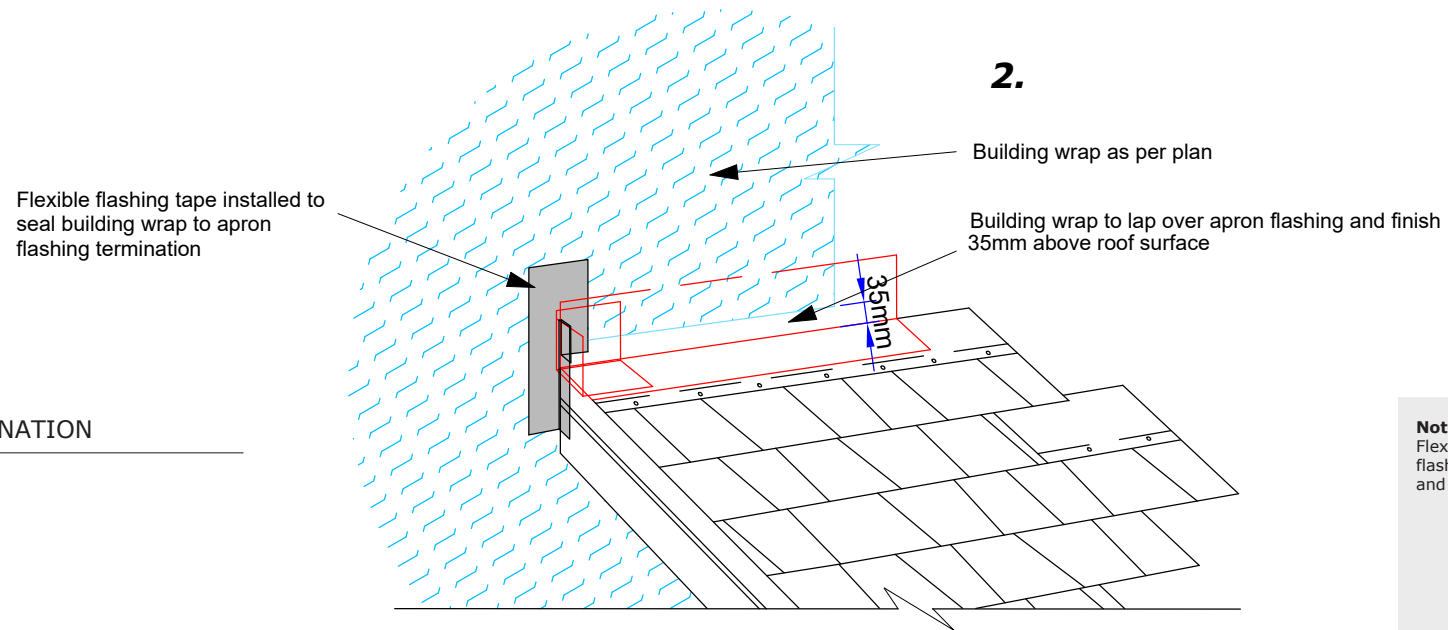
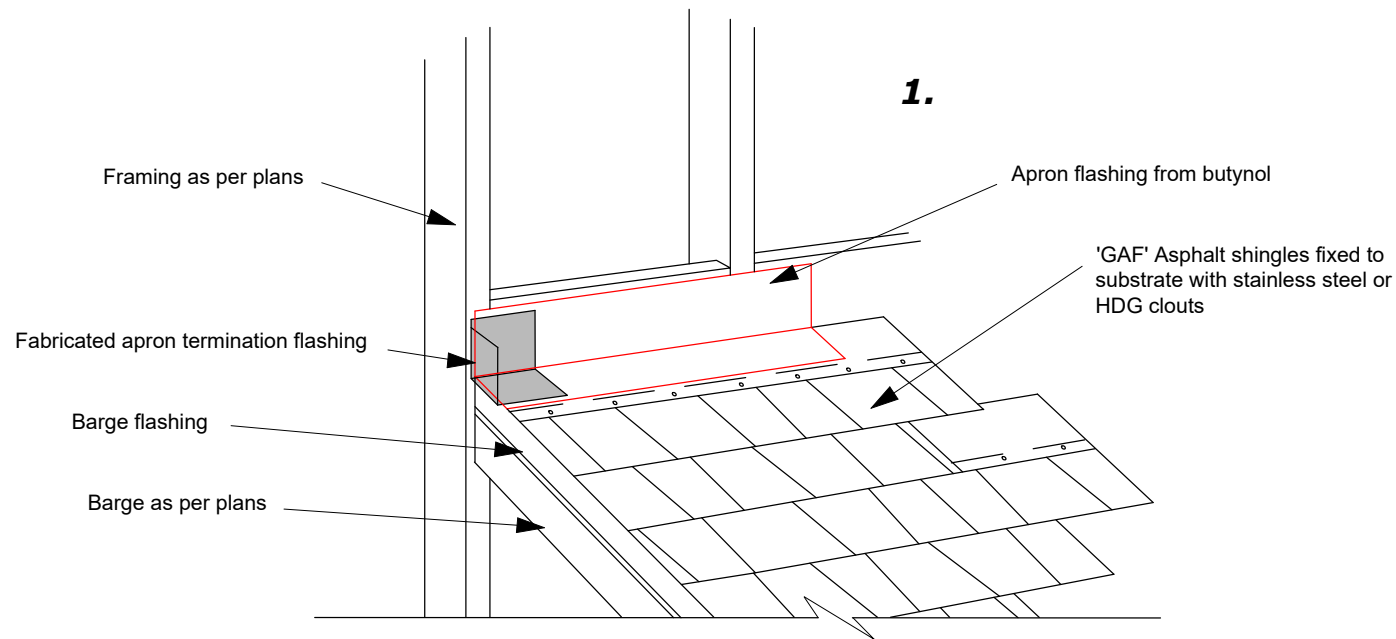
SHINGLE ROOF BARGE END

Scale: N.T.S.

Notes:

Any gaps between the plywood and barge board greater than 10mm require a 100mm deep flashing to cover the barge board and gap between the plywood.

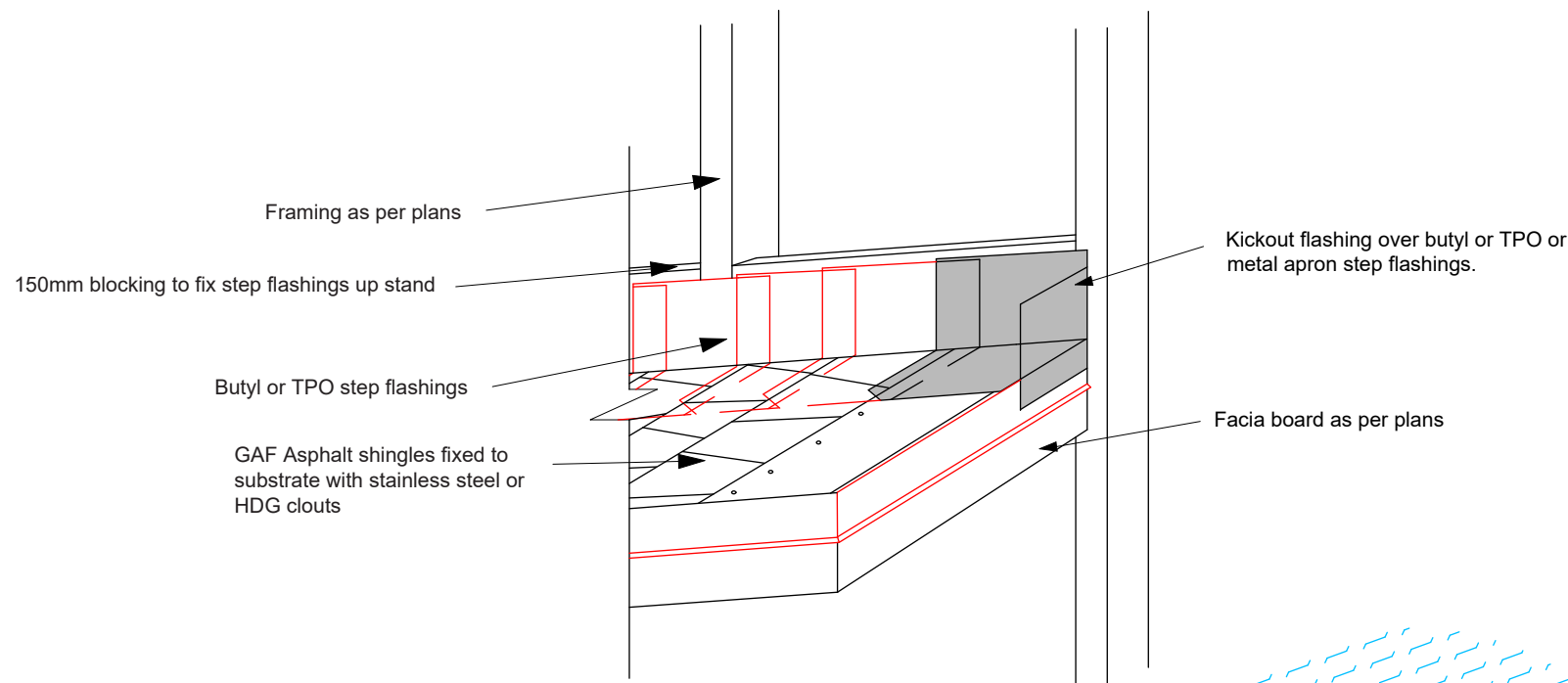
Alternatively suitable seam tape, GAF WeatherWatch or window tape or GAF Seam tape to seal plywood to barge junction.



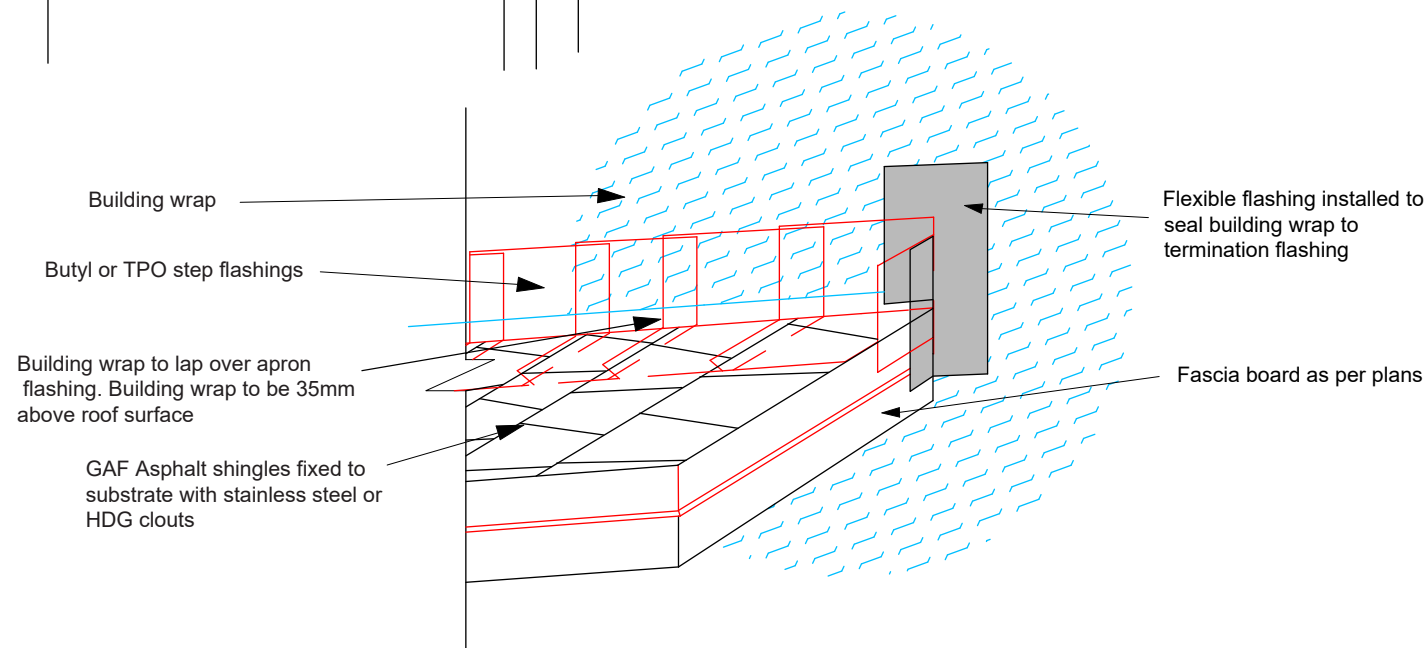
SHINGLE ROOF APRON TERMINATION

Scale: N.T.S.

Notes:
Flexible flashing tape forms a back flashing to the apron termination and barge junction area.

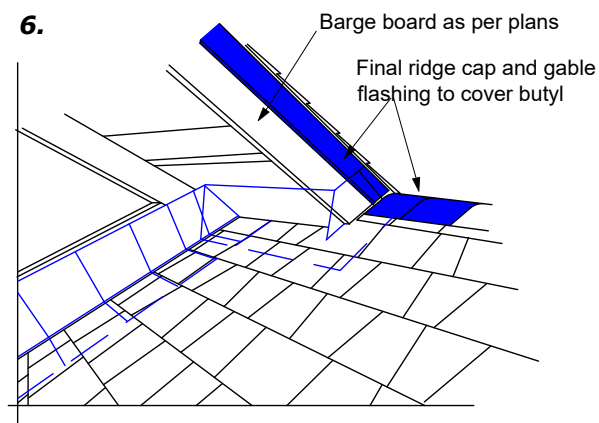
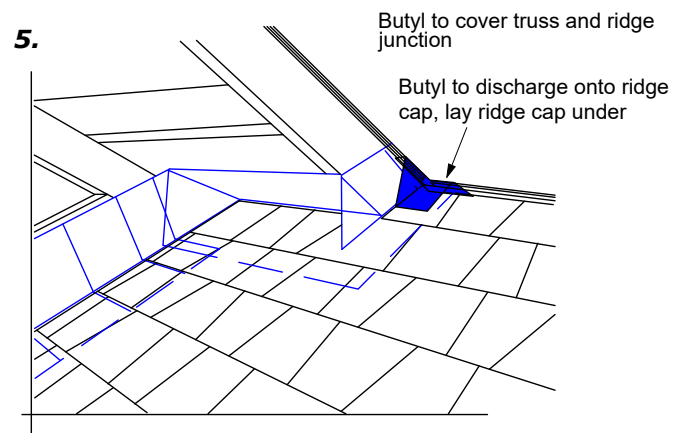
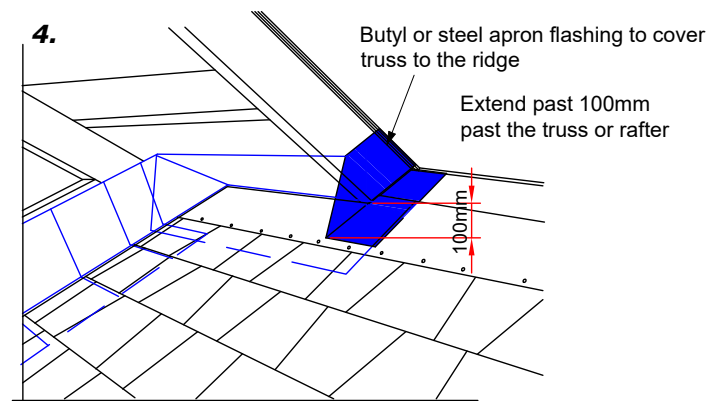
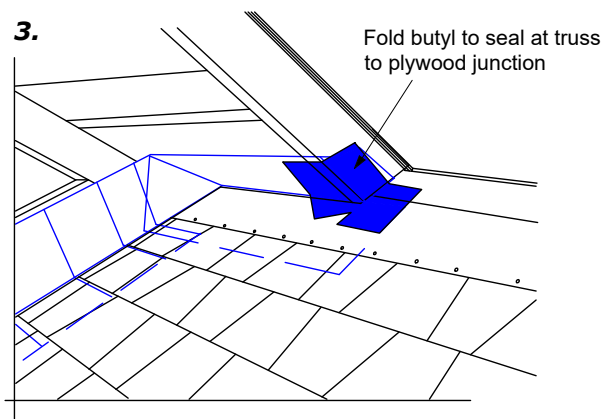
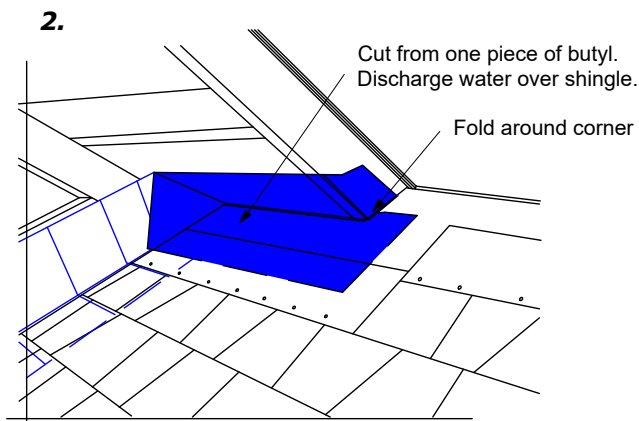
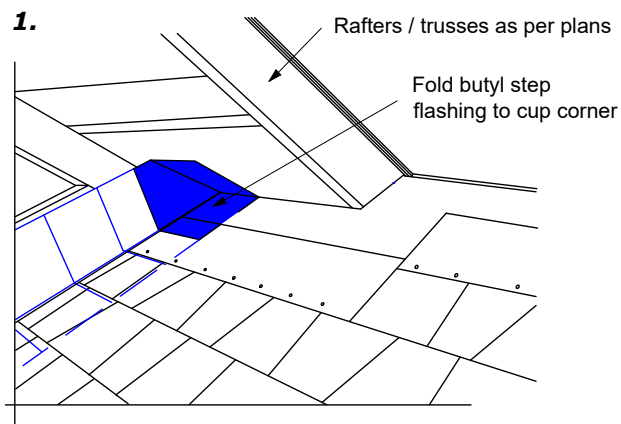


Notes:
Flexible flashing tape forms a back flashing to the apron termination and barge junction area.



SHINGLE ROOF KICK OUT FLASHING

Scale: N.T.S.

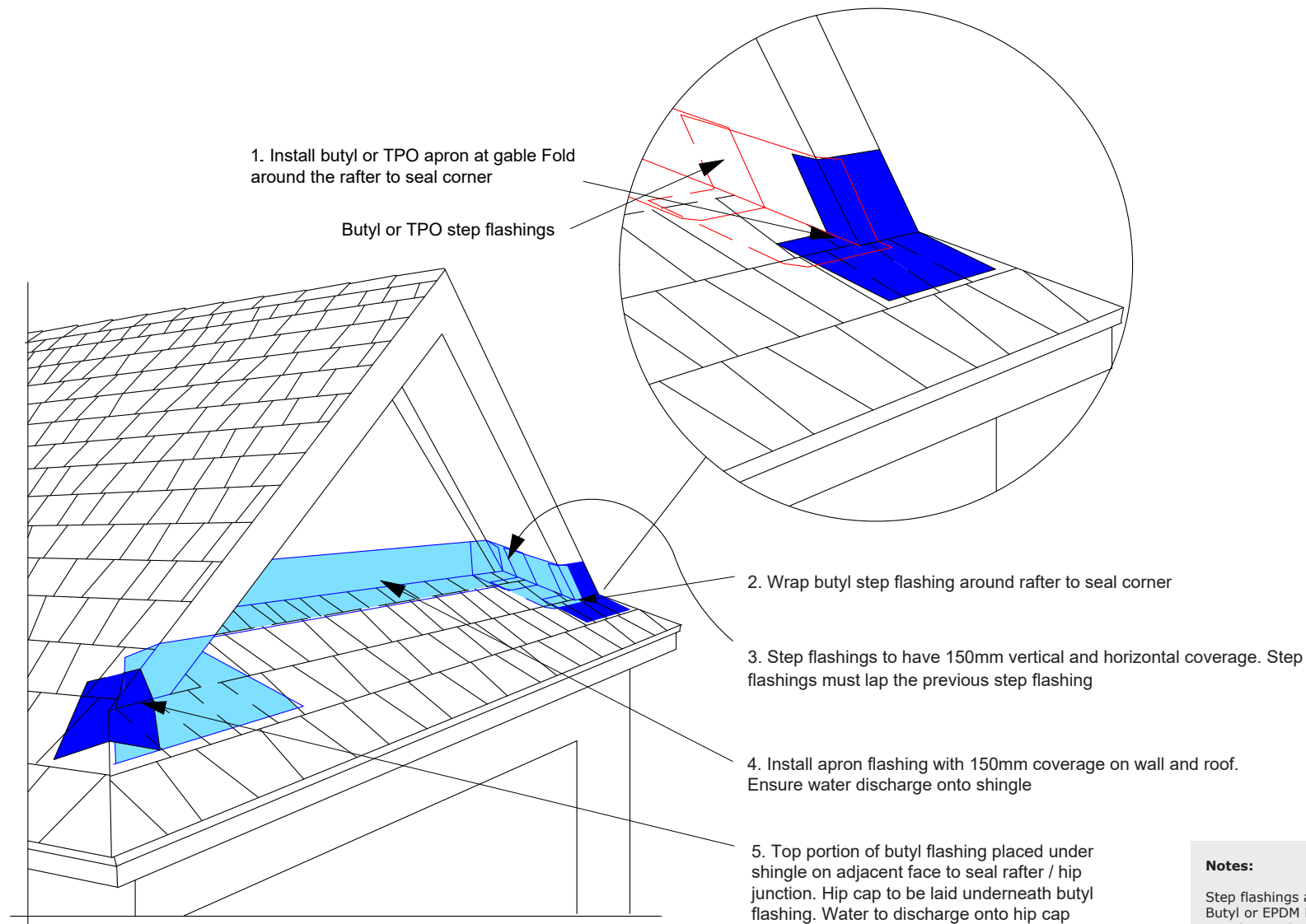


Notes:

Step flashings and apron flashings are formed from Butyl or EPDM Rubber or TPO membrane sheet.

SHINGLE ROOF GABLE TO RIDGE

Scale: N.T.S.



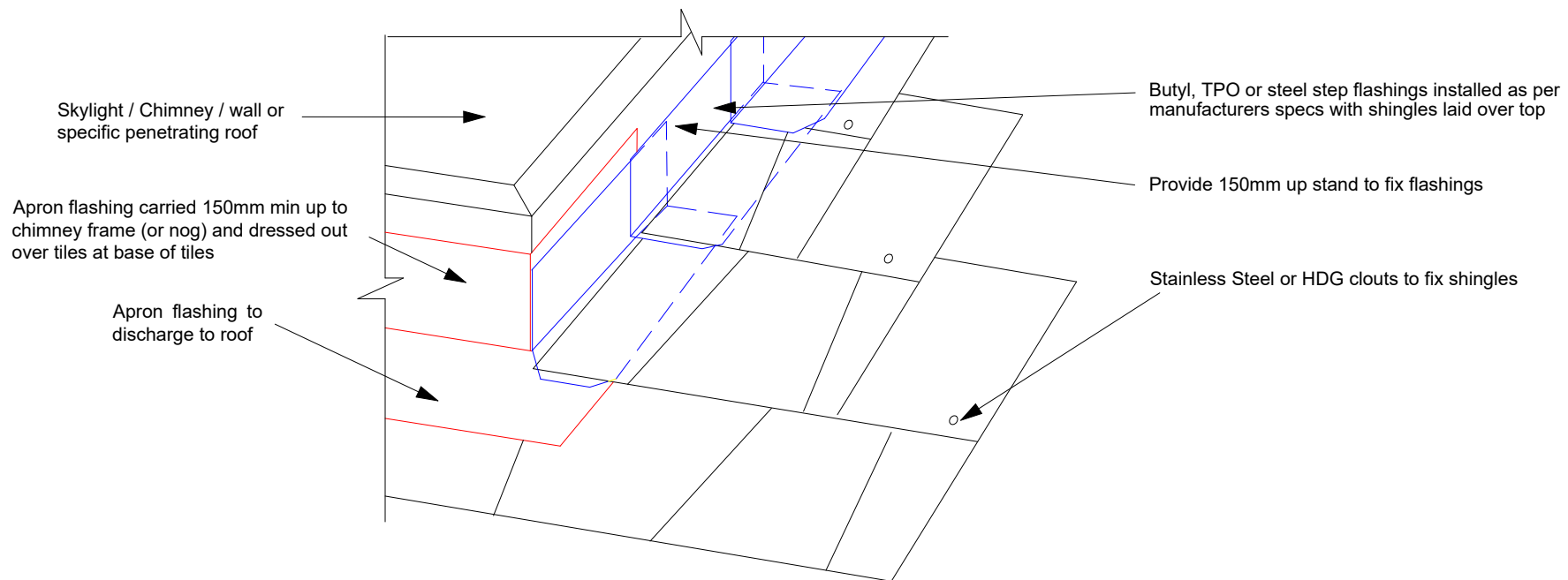
SHINGLE ROOF DUTCH DROMER GABLE

Scale: N.T.S.

Notes:

Step flashings are formed from Butyl or EPDM Rubber or TPO membrane sheet.

Step flashings are fixed with shingle nails to the wall and plywood deck.



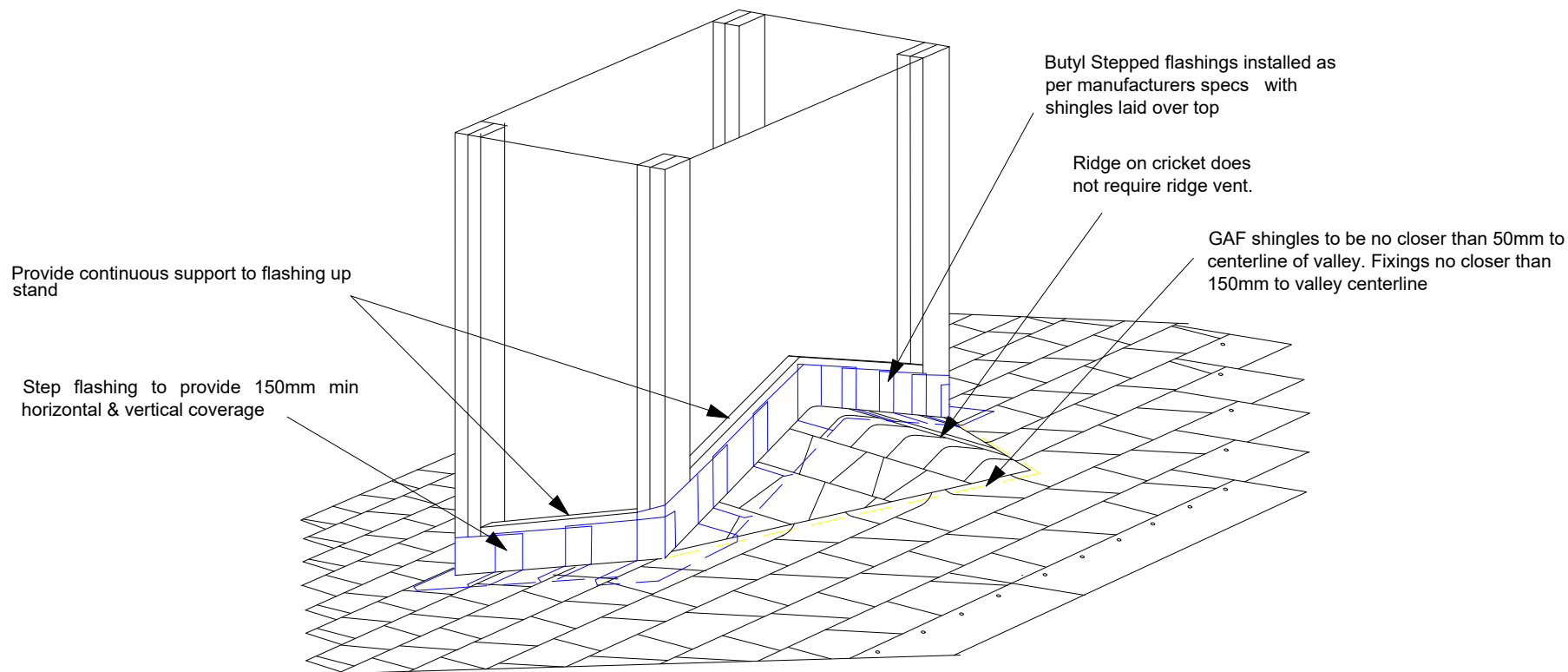
SHINGLE ROOF SPECIFIC PENETRATION

Scale: N.T.S.

Notes:

Step flashings are formed from Butyl or EPDM Rubber or TPO membrane sheet, 300mm x 300mm square.

Step flashings are fixed with shingle nails to the wall and plywood deck.



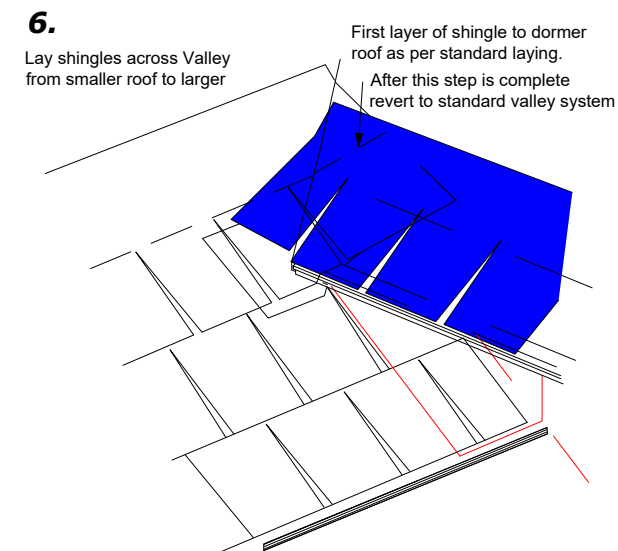
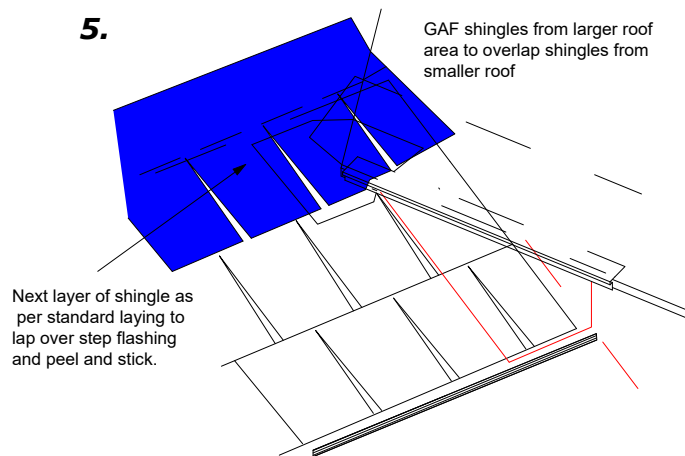
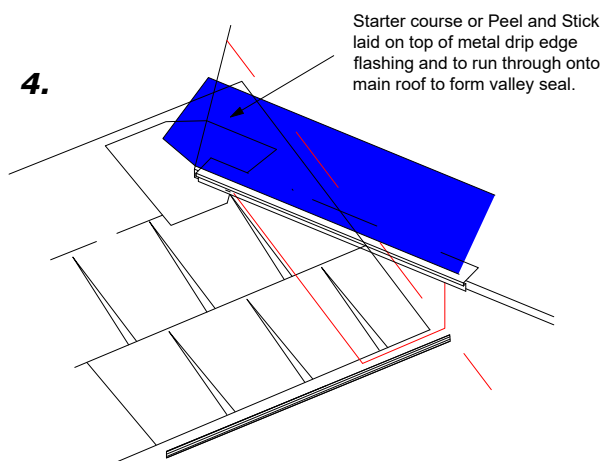
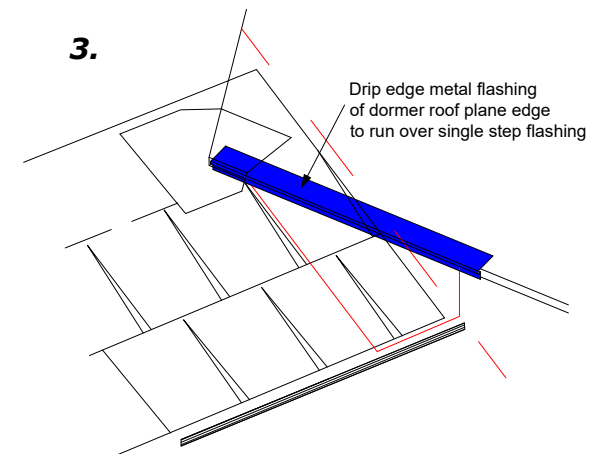
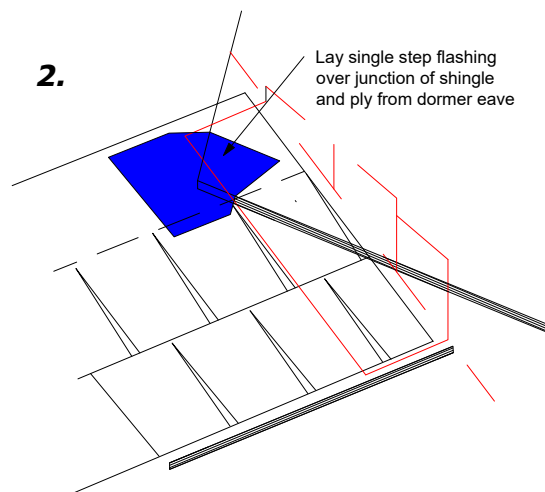
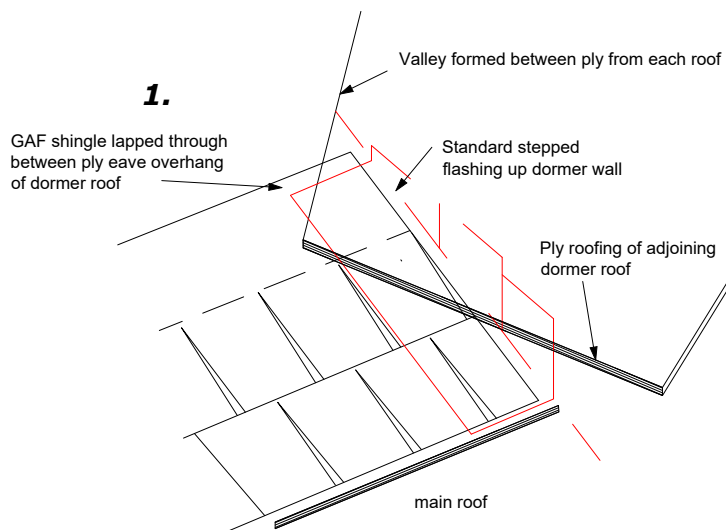
SHINGLE ROOF CHIMNEY CRICKET

Scale: N.T.S.

Notes:

Step flashings are formed from Butyl or EPDM Rubber or TPO membrane sheet, 300mm x 300mm square.

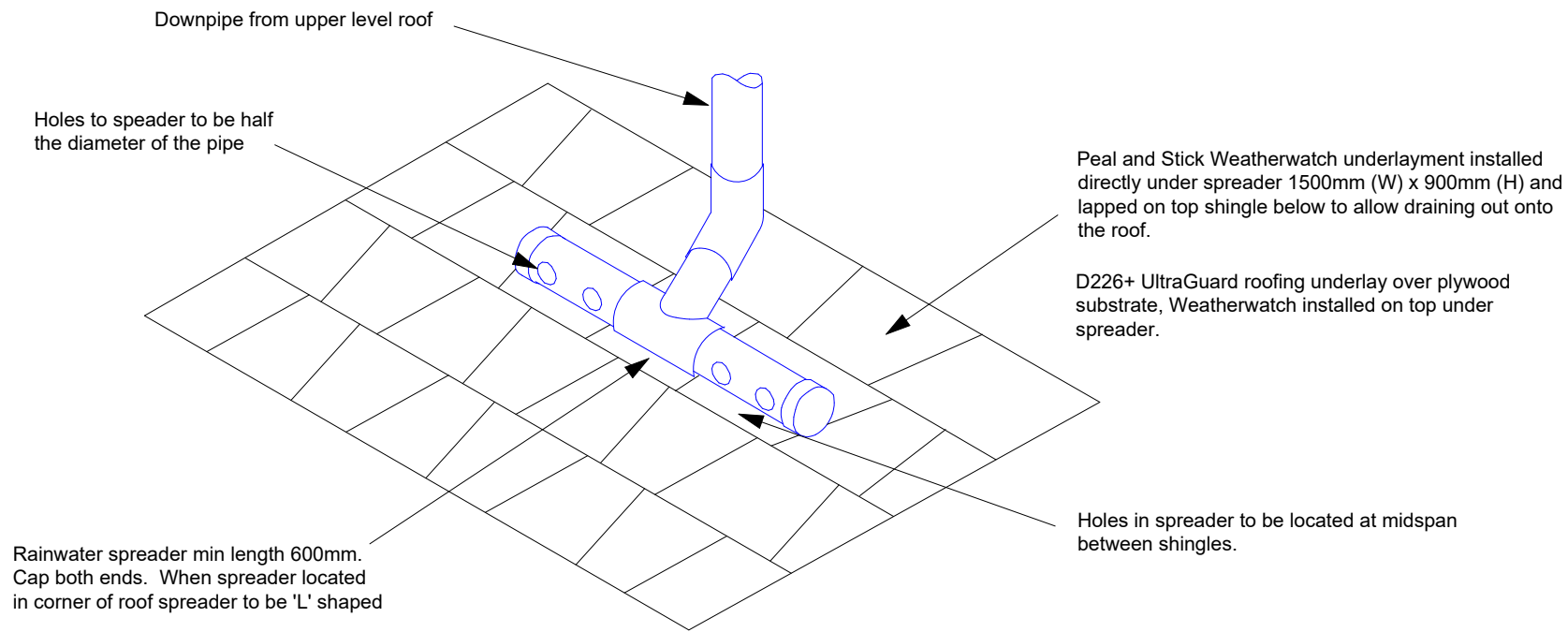
Step flashings are fixed with shingle nails to the wall and plywood deck.



SHINGLE ROOF VALLEY TO DORMER

Scale: N.T.S.

Down pipe spreaders are critical for water discharge onto the shingle roof



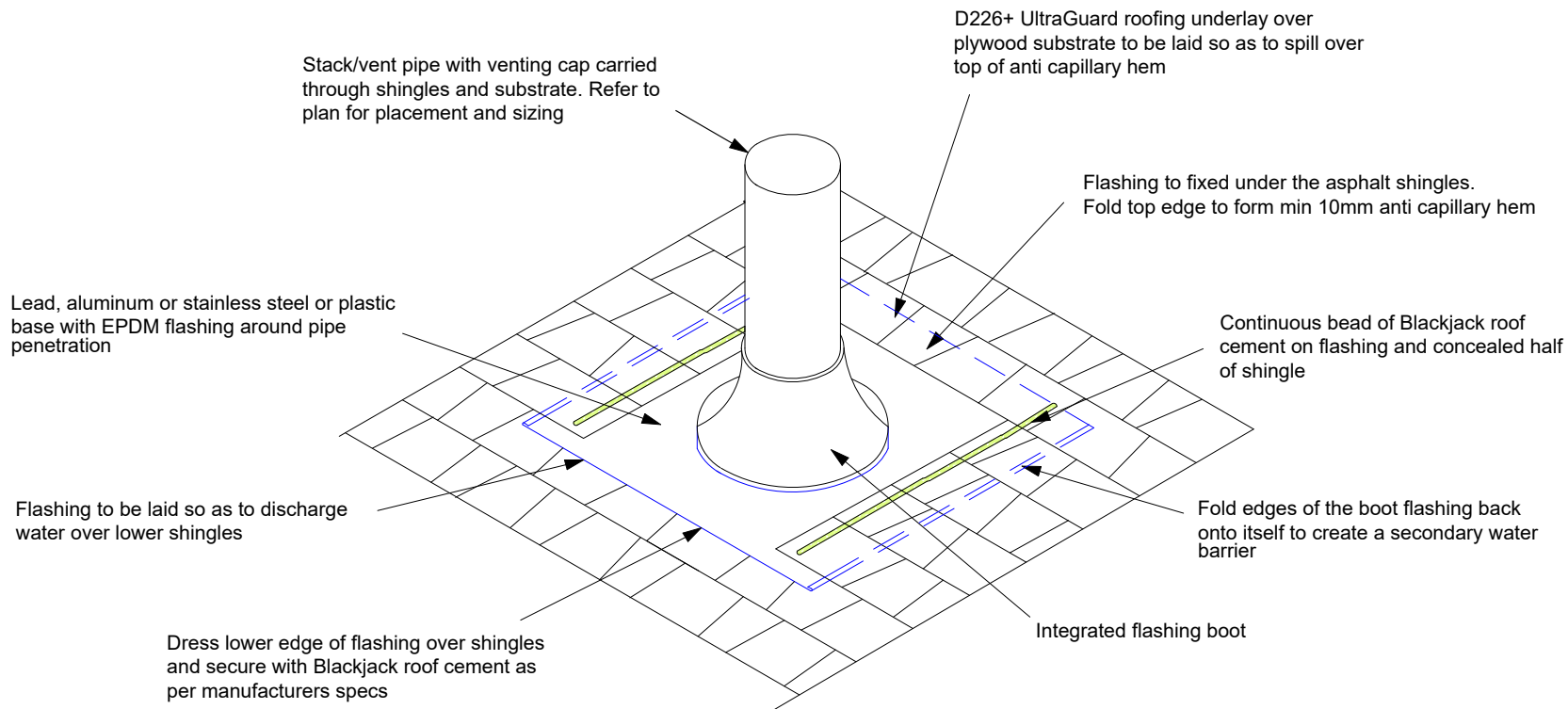
SHINGLE ROOF RAIN WATER SPREADER

Scale: N.T.S.

Notes:

MAX 25m2 CATCHMENT PER SPREADER SHALL BE PERMITTED TO DISCHARGE ONTO LOWER ROOF AREA.

DO NOT DISCHARGE OVER SHINGLE JUNCTION.



SHINGLE ROOF PIPE PENETRATION

Scale: N.T.S.

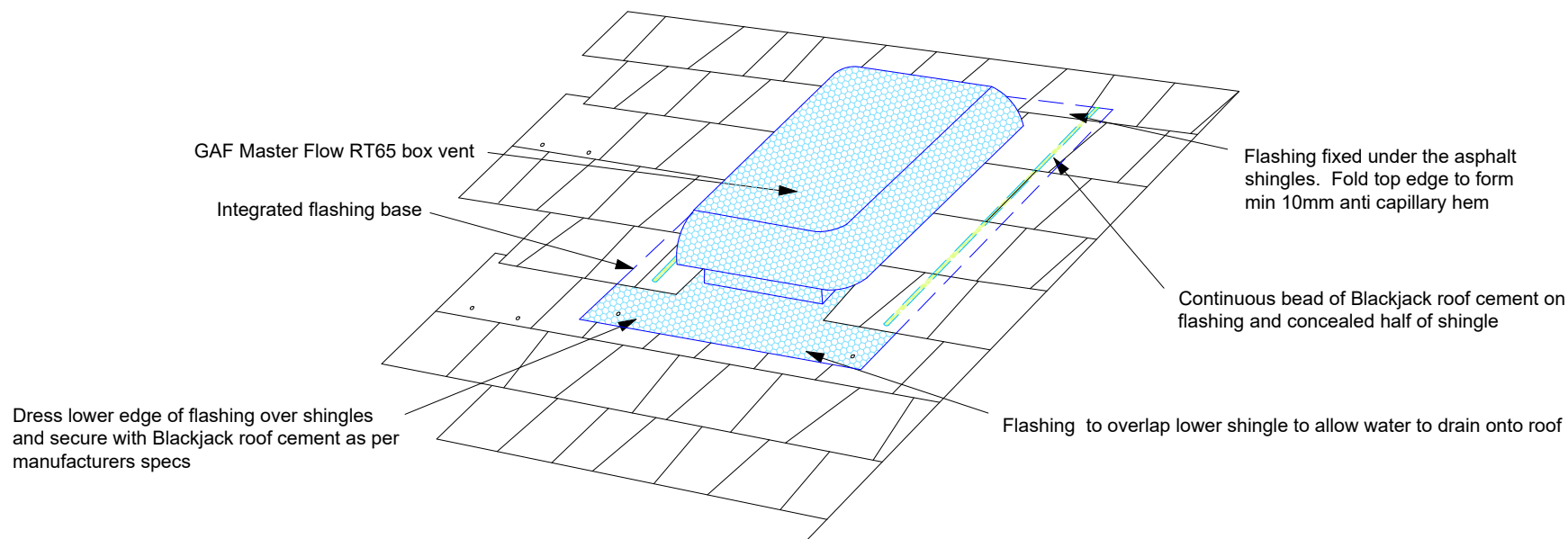
Notes:

Pipe flashing with the plastic base may not have a hem or crush return. Use Blackjack to seam edges under tiles.

Recommended:

Install WeatherWatch peel and stick 500mm x 500mm under pipe boot flashing, draining on to tiles below.

Cut appropriate size opening in underlay and substrate for vent. Refer to included instructions



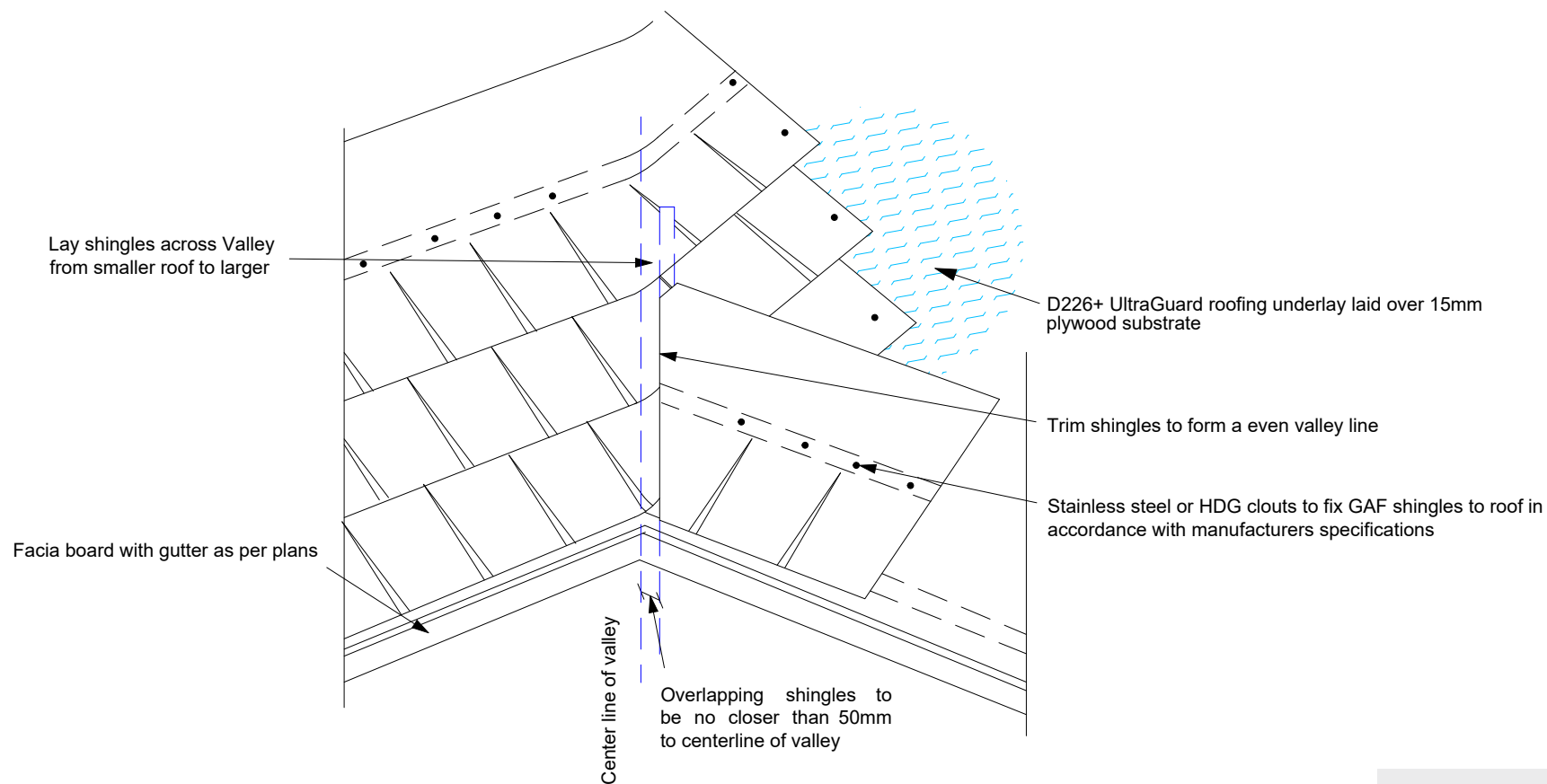
SHINGLE ROOF MASTER FLOW RT65 BOX VENT

Scale: N.T.S.

Notes:

Install WeatherWatch peal and stick 500mm x 500mm under box vent flashing, draining on to tiles below. Underlay should not block air flow from the vent.

Install one RT-65 box vent per 23.2 square meters of attic floor area.

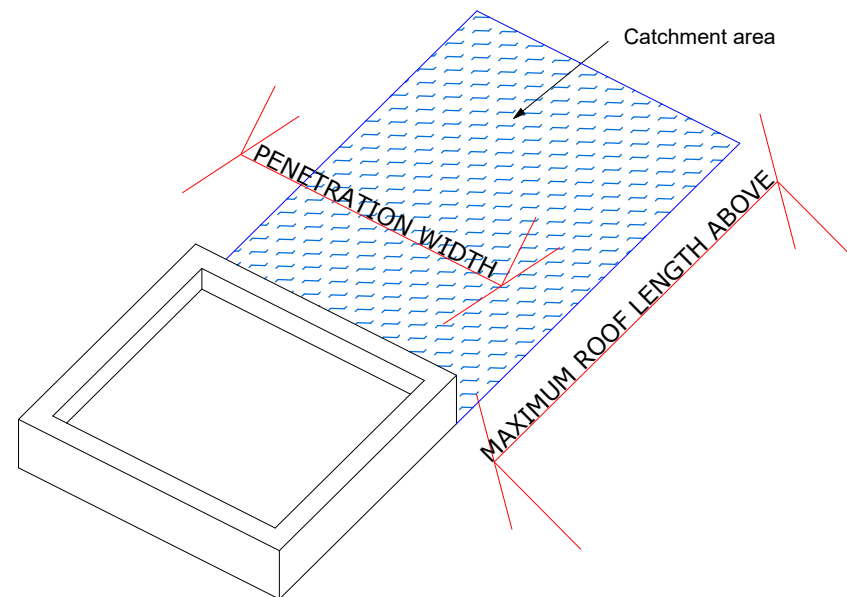
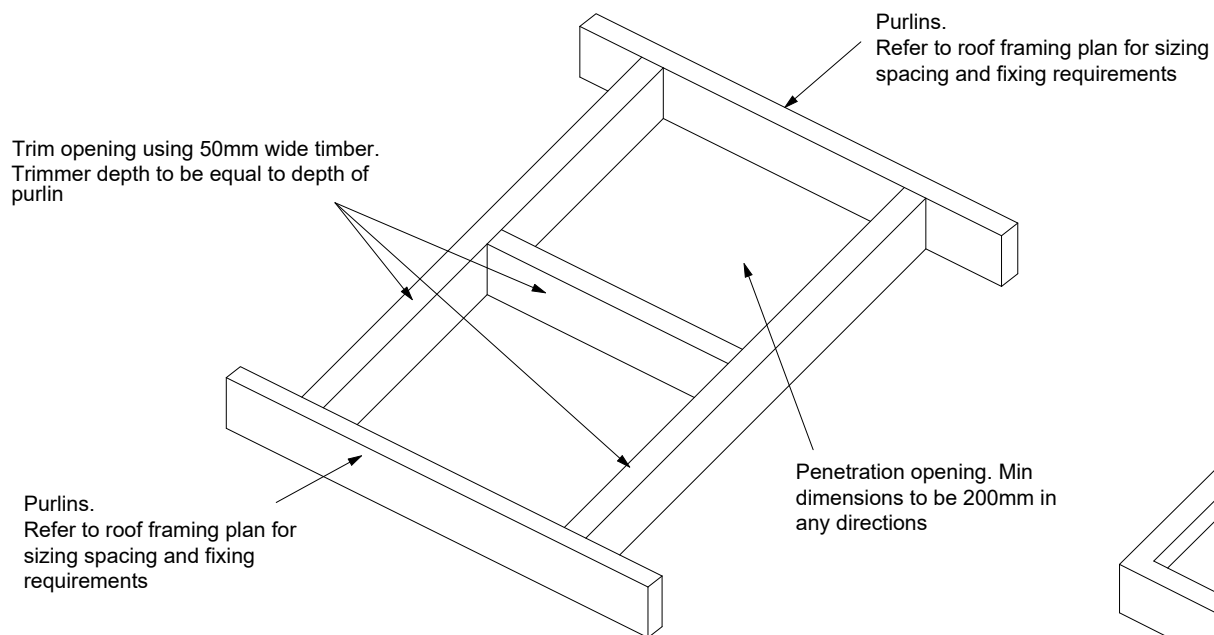


SHINGLE ROOF VALLEY CLADDING

Scale: N.T.S.

Notes:

Install WeatherWatch peal and stick directly to the valley plywood 400mm wide to the length of the valley and centered with 200mm to each adjoining roof face.

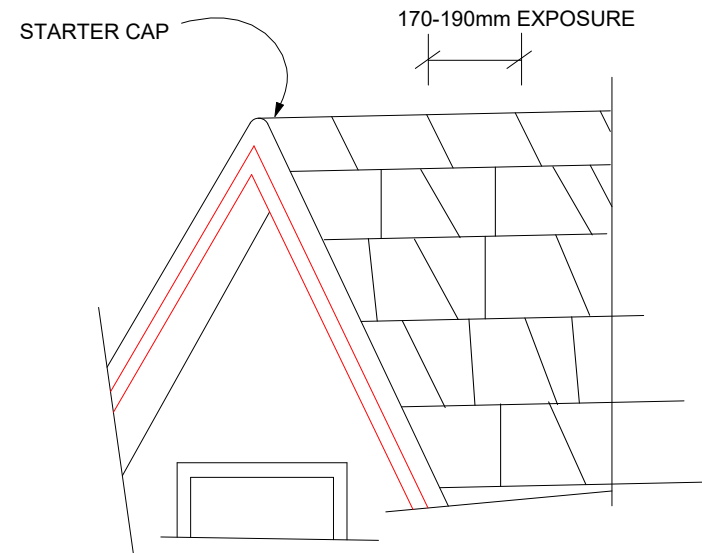
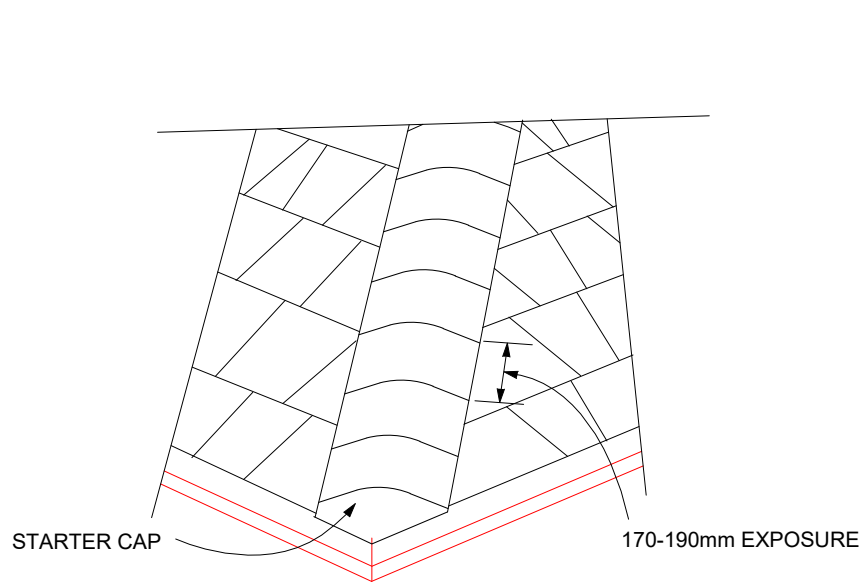
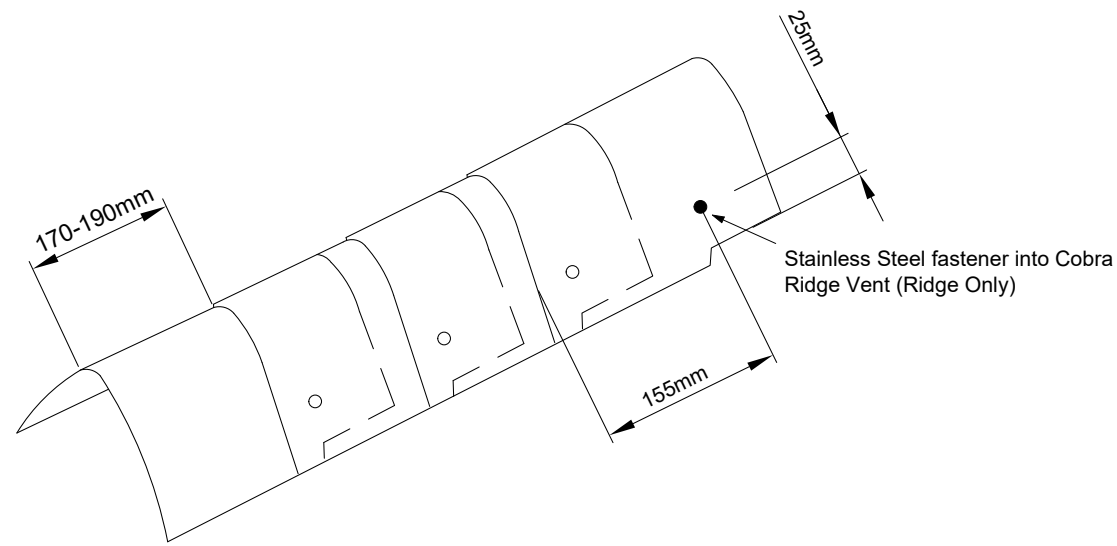


SHINGLE ROOF PENETRATION OPENINGS

Scale: N.T.S.

CATCHMENT AREAS TABLE

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



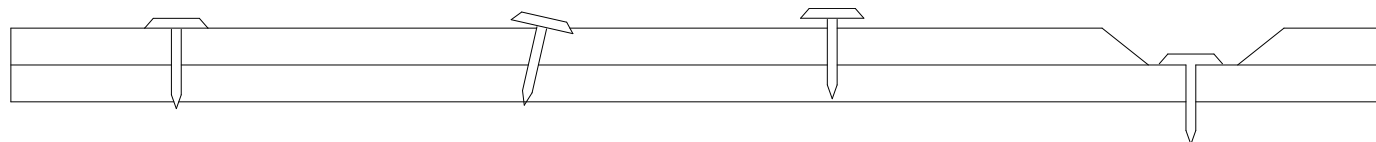
SHINGLE ROOF HIP & RIDGE CAP

Scale: N.T.S.

Notes:

The exposure area for the hip and ridge cap may vary according to the type of cap system.

Follow the individual instructions for each type cap system.



CORRECT
Head flush to shingle. Nail head perpendicular to shingle during driving.

CROOKED
Decreased holding, shingle torn. Prevents next shingle from sealing SEE REPAIR NOTE 1

UNDERDRIVEN
Decreased holding, puncture shingle above. Prevents next shingle from sealing SEE REPAIR NOTE 1

OVERDRIVEN
Decreased holding, shingle torn SEE REPAIR NOTE 2

REPAIR NOTE 1:

FLATTEN NAIL HEAD TO PREVENT INTERFERENCE WITH SHINGLE ABOVE

REPAIR NOTE 2:

DRIVE ANOTHER NEARBY NAIL AS REQUIRED. SEAL OVERDRIVEN NAIL WITH 'BLACK JACK' CEMENT

FASTENERS

While nailing is the preferred method for fixing raised roof profile shingles, GAF accept fastening methods in accordance with GAF specifications.

Shingle nails - stainless steel or compliant hot-dip galvanized gun nails for nailing roof shingles, semi ring shank, in lengths of 25 or 32 mm and having a minimum 3 mm diameter shank with a 9 mm diameter head.

Plywood nails - ring shank, galvanized, flooring grade nails 64 mm long having a minimum 3 mm diameter ring shank with 7 x 5 mm 'D' head.

NAILS: refer to NZS 3604:2011 section 4.4 for corrosion protection requirements.

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.

Always nail through the fastener line.

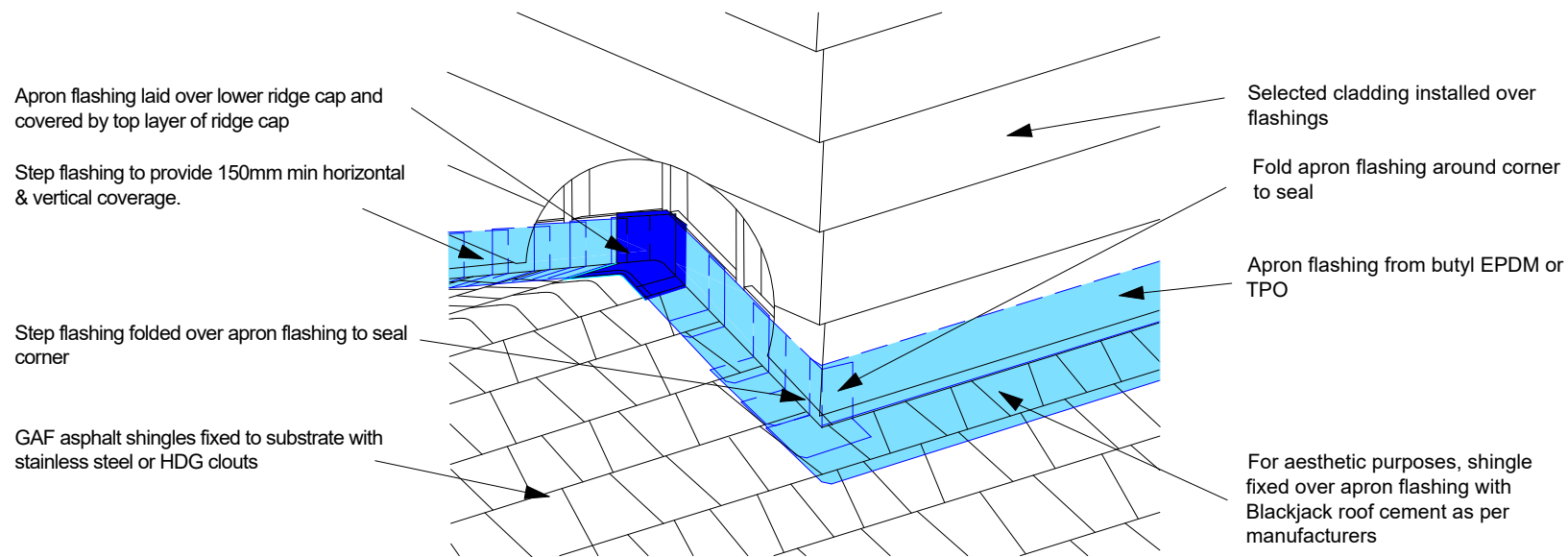
SHINGLE ROOF FASTENING DETAIL AND REPAIR

Scale: N.T.S.

Notes:

INSTALLATION INSTRUCTIONS for the individual shingle system should be followed.

Instruction for Timberline and Slateline shingle systems are available.

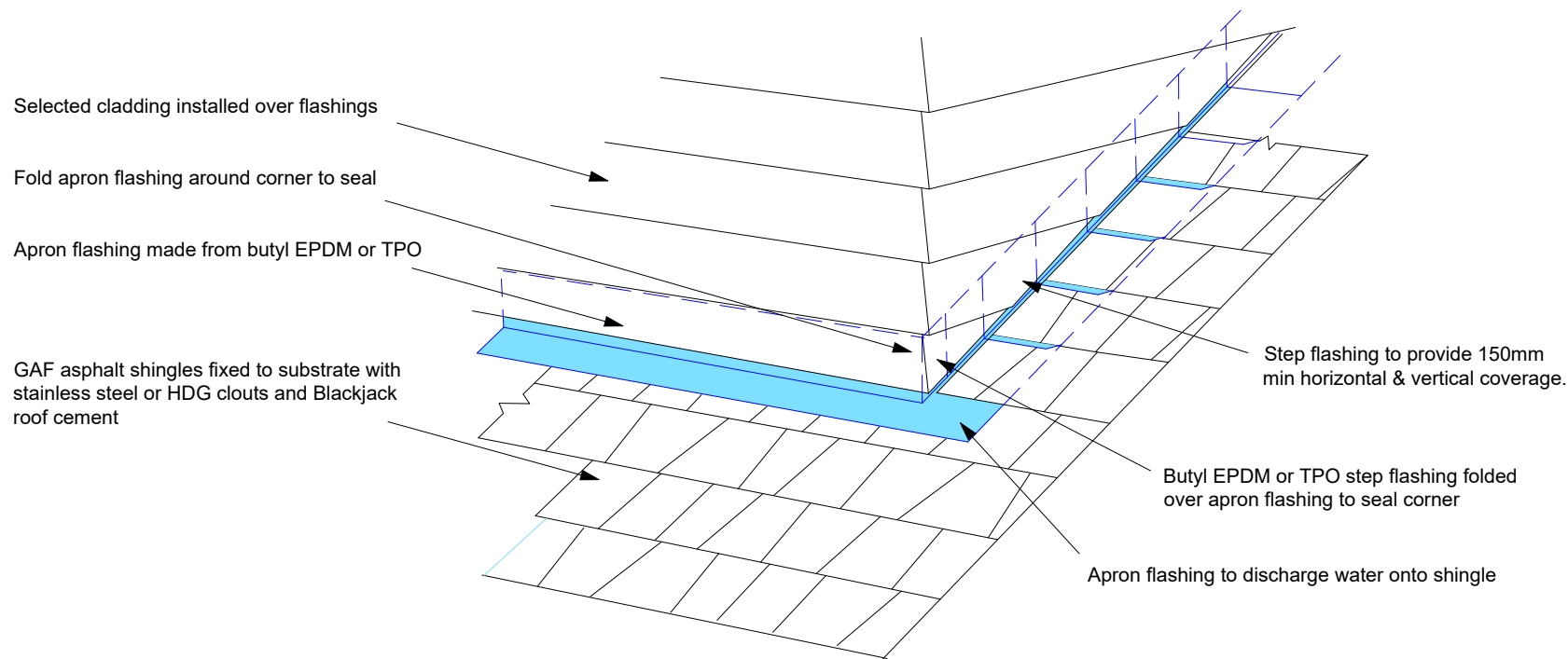


SHINGLE ROOF RIDGE TO WALL

Scale: N.T.S.

Notes:

Building wrap not shown. Building wrap to overlap step flashings and apron flashings.

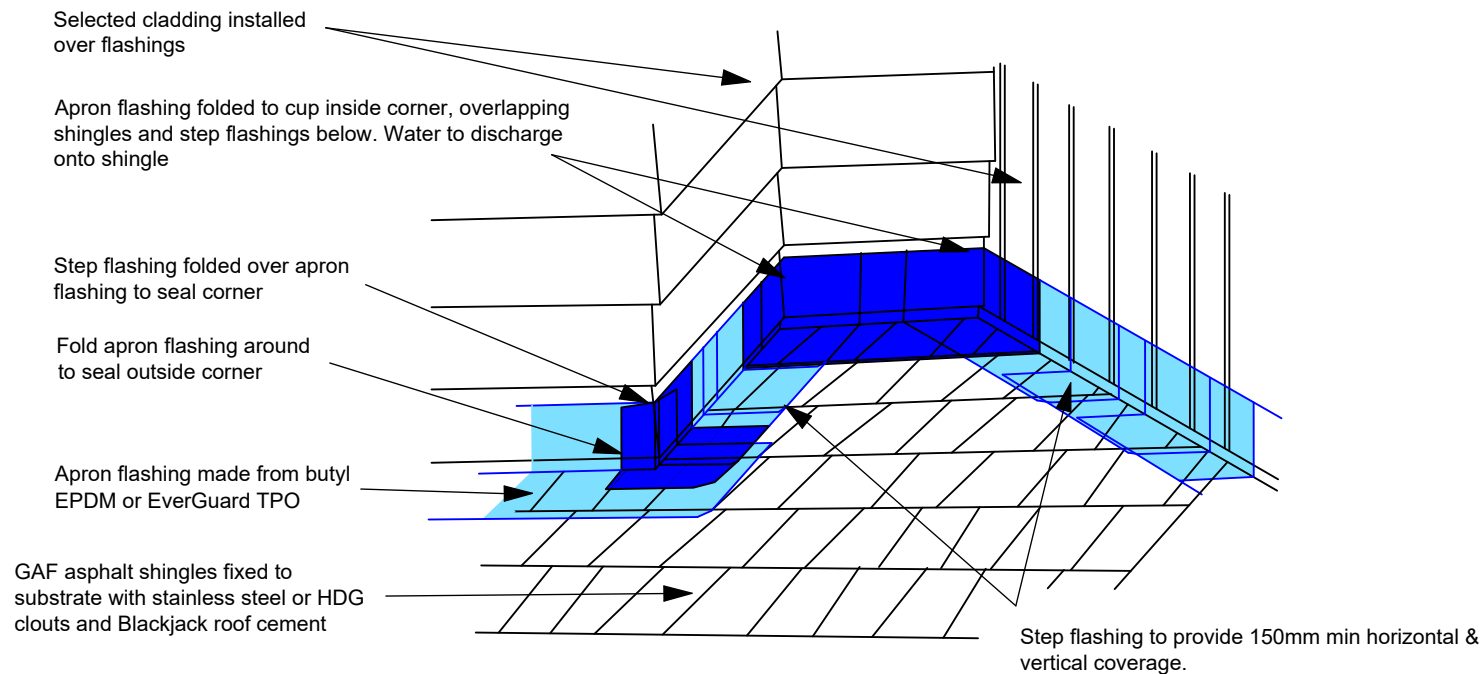


Notes:

Building wrap not shown. Building wrap to overlap step flashings and apron flashings.

SHINGLE ROOF TO WALL FLASHINGS

Scale: N.T.S.



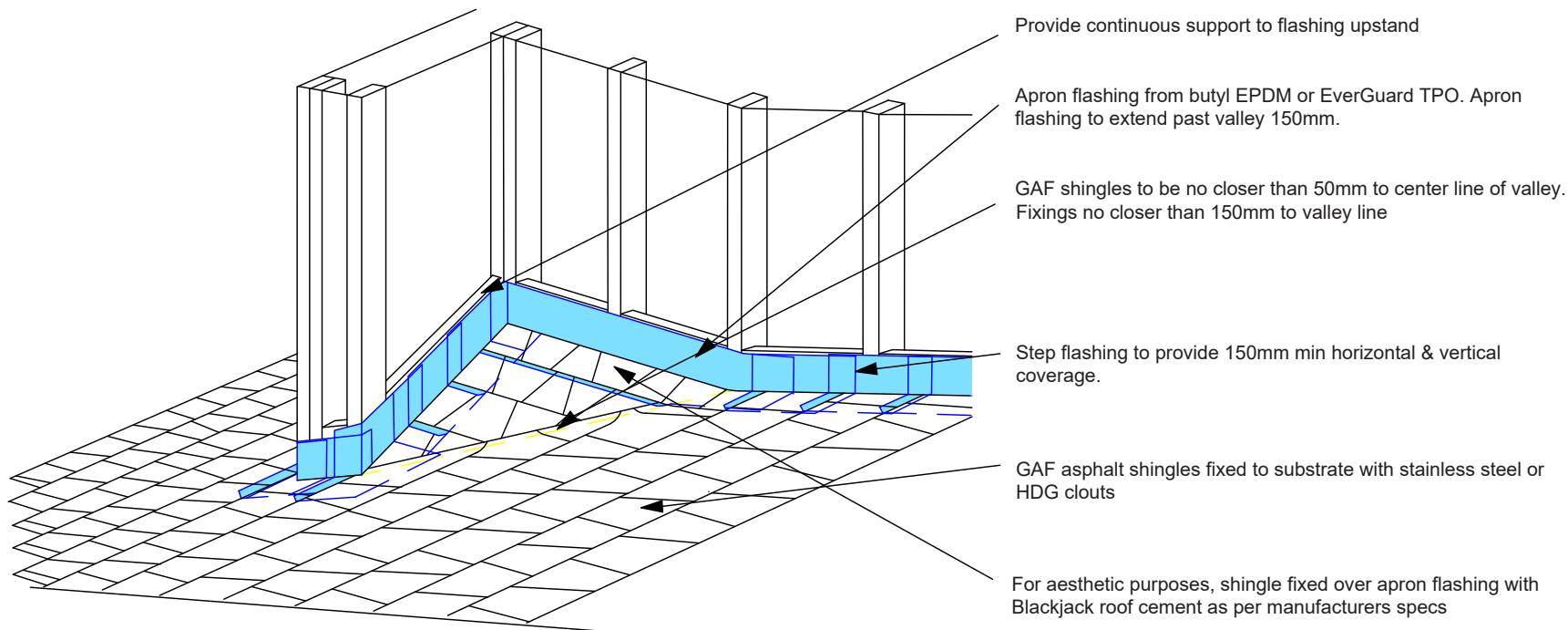
SHINGLE ROOF TO WALL CORNERS

Scale: N.T.S.

Notes:

Building wrap not shown. Building wrap to overlap step flashings and apron flashings.

Both apron flashings and step flashings are made from butyl EPDM or EverGuard TPO.



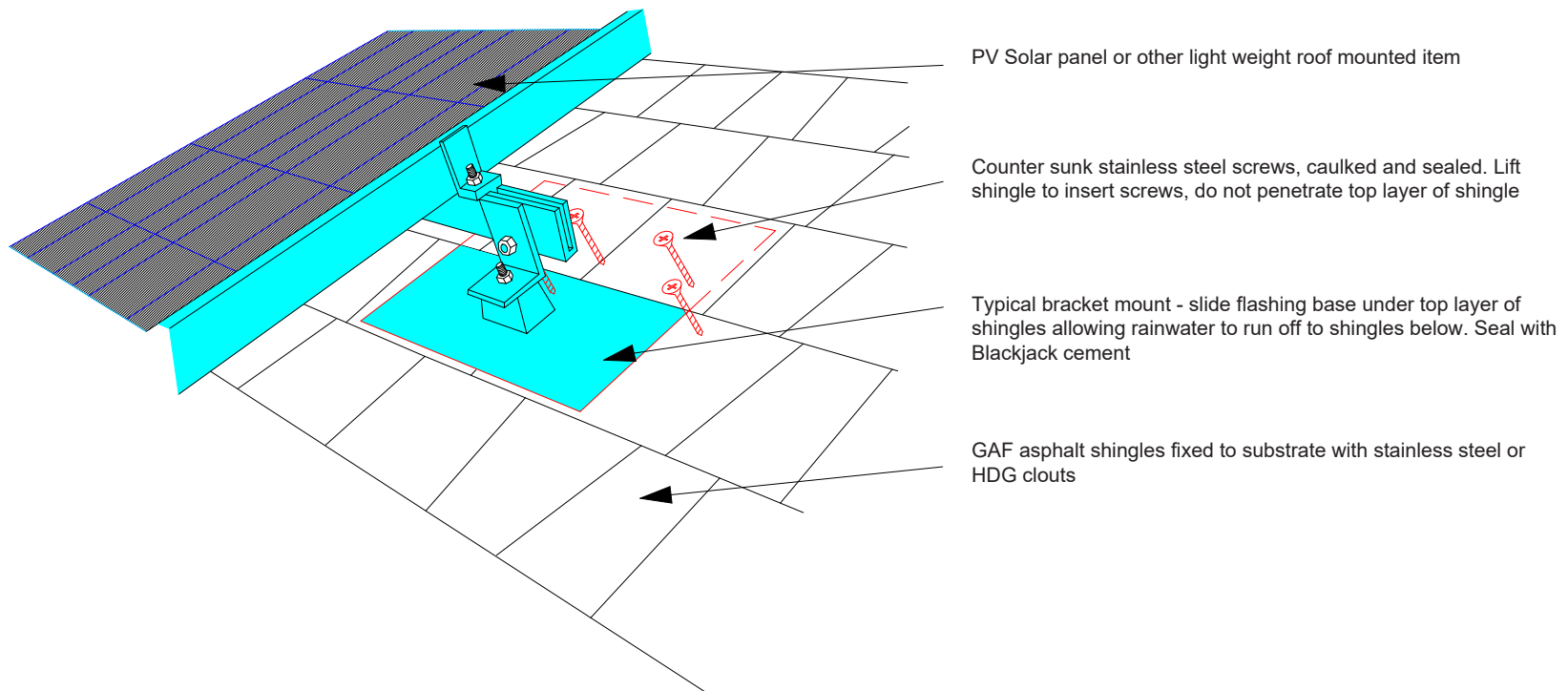
SHINGLE ROOF INTERNAL VALLEY CRICKET

Scale: N.T.S.

Notes:

Building wrap not shown. Building wrap to overlap step flashings and apron flashings.

Both apron flashings and step flashings are made from butyl EPDM or EverGuard TPO.



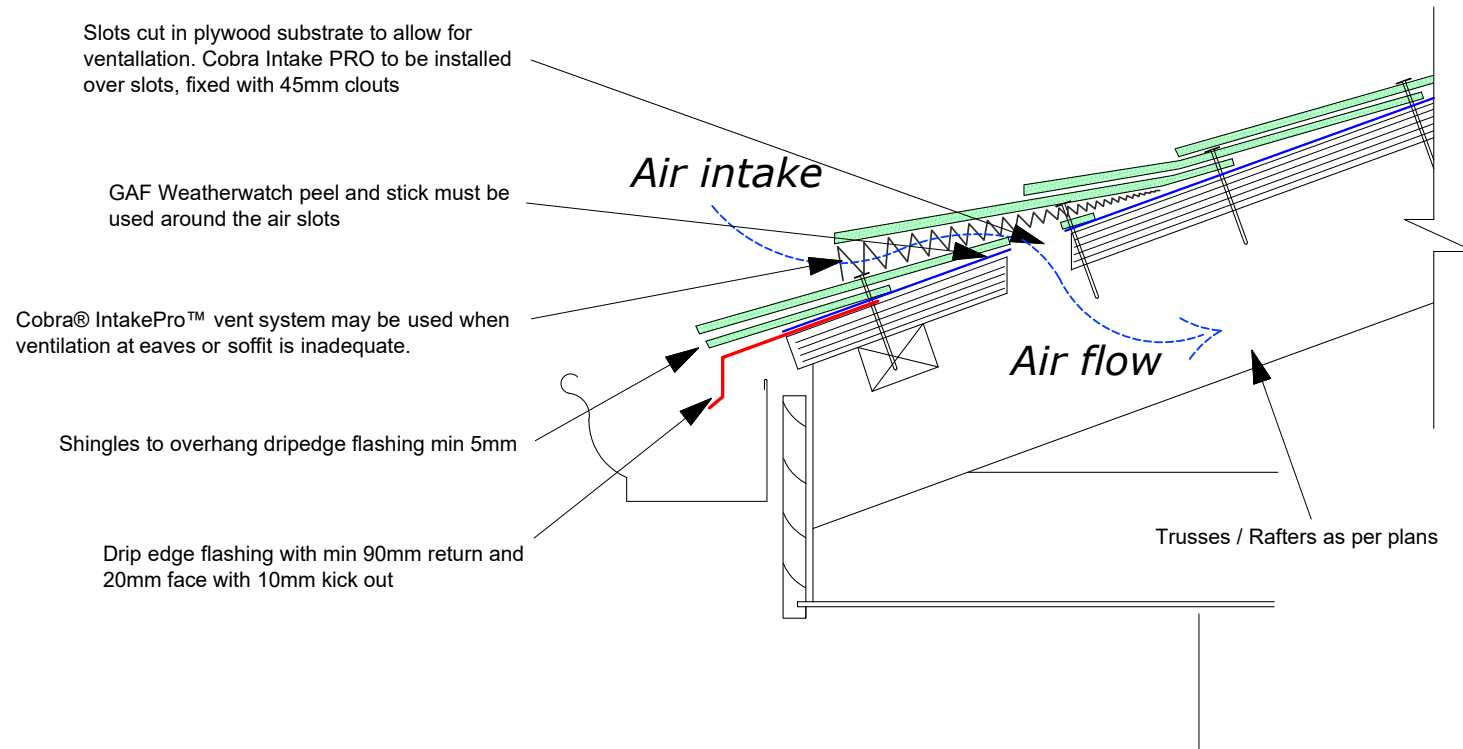
Notes:

Do not directly fix any bracket or mount directly to the shingle surface. The shingle system requires a flashing base for the mount.

SHINGLE ROOF PV SOLAR PANEL MOUNT

Scale: N.T.S.

Minimum roof pitch = 18.5°



SHINGLE ROOF SURFACE INTAKE VENT

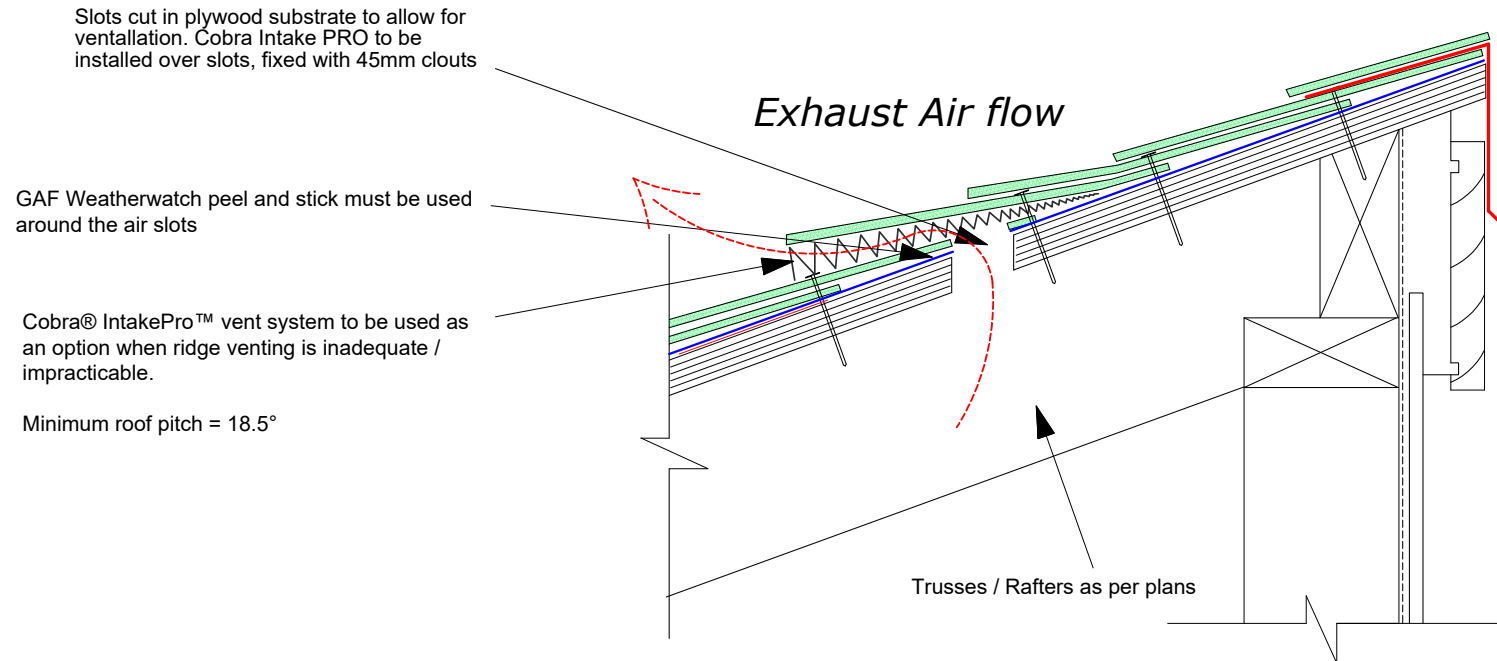
Scale: N.T.S.

Notes:

Cobra Intake-Pro must be installed to manufacturer's specifications and installation instructions. GAF WeatherWatch underlay must be used under vent.

Cobra Intake Pro minimum roof pitch = 18.5°

Note: The amount of exhaust ventilation must not exceed the amount of intake ventilation at the soffit or eaves



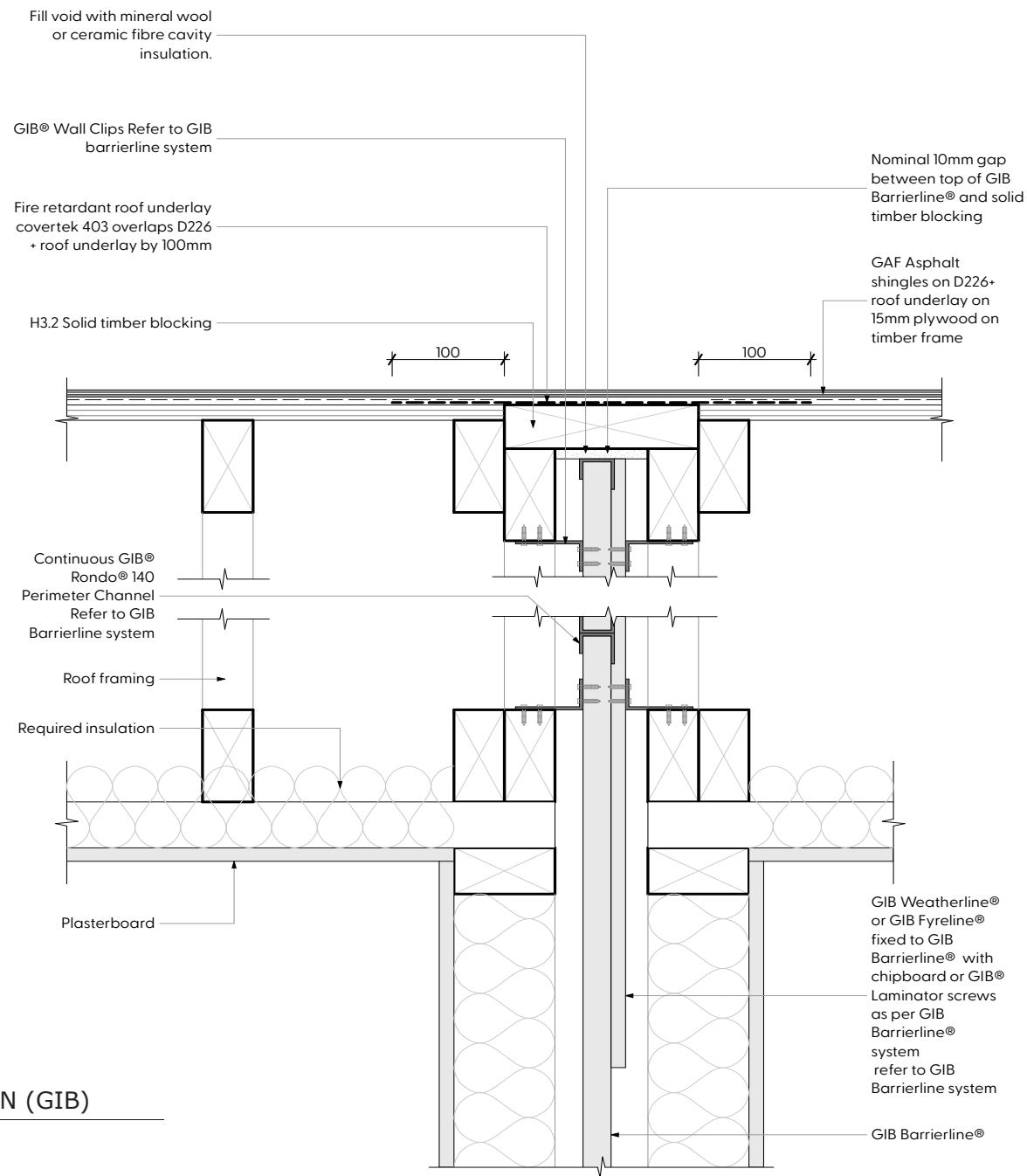
SHINGLE ROOF SURFACE EXHAUST VENT

Scale: N.T.S.

Notes:

Cobra Intake-Pro must be installed to manufacturer's specifications and installation instructions. GAF WeatherWatch underlay must be used under vent.

Cobra Intake Pro minimum roof pitch = 18.5°



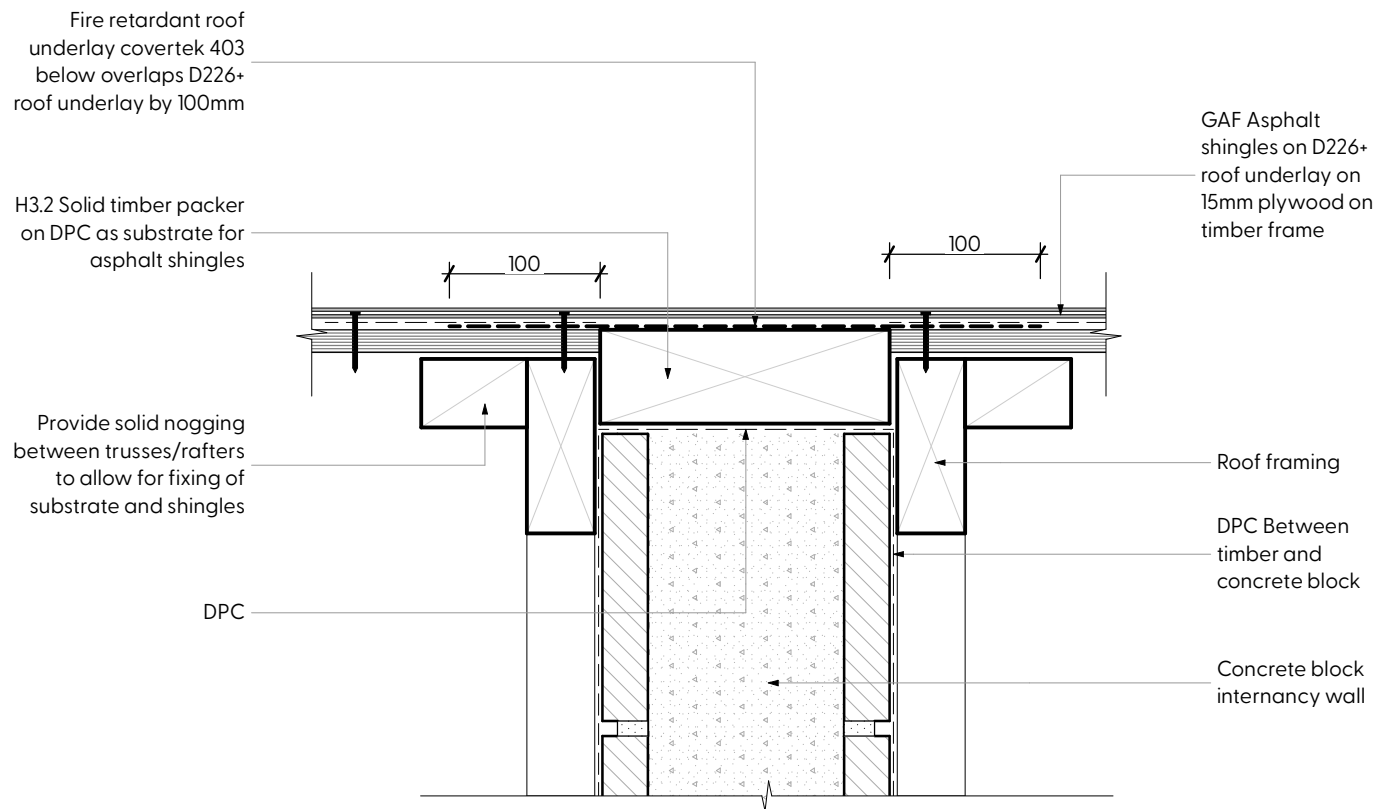
INTERTENANCY ROOF JUNCTION (GIB)

Scale: N.T.S.

Notes:

This detail has been designed by DEASIGNFIRE Architects & Fire Consultants for GAF Shingle systems, BRANZ Appraisal 529.

Detail has been externally reviewed by (GIB) Winstone Wallboards LTD and BRANZ Technical Services.



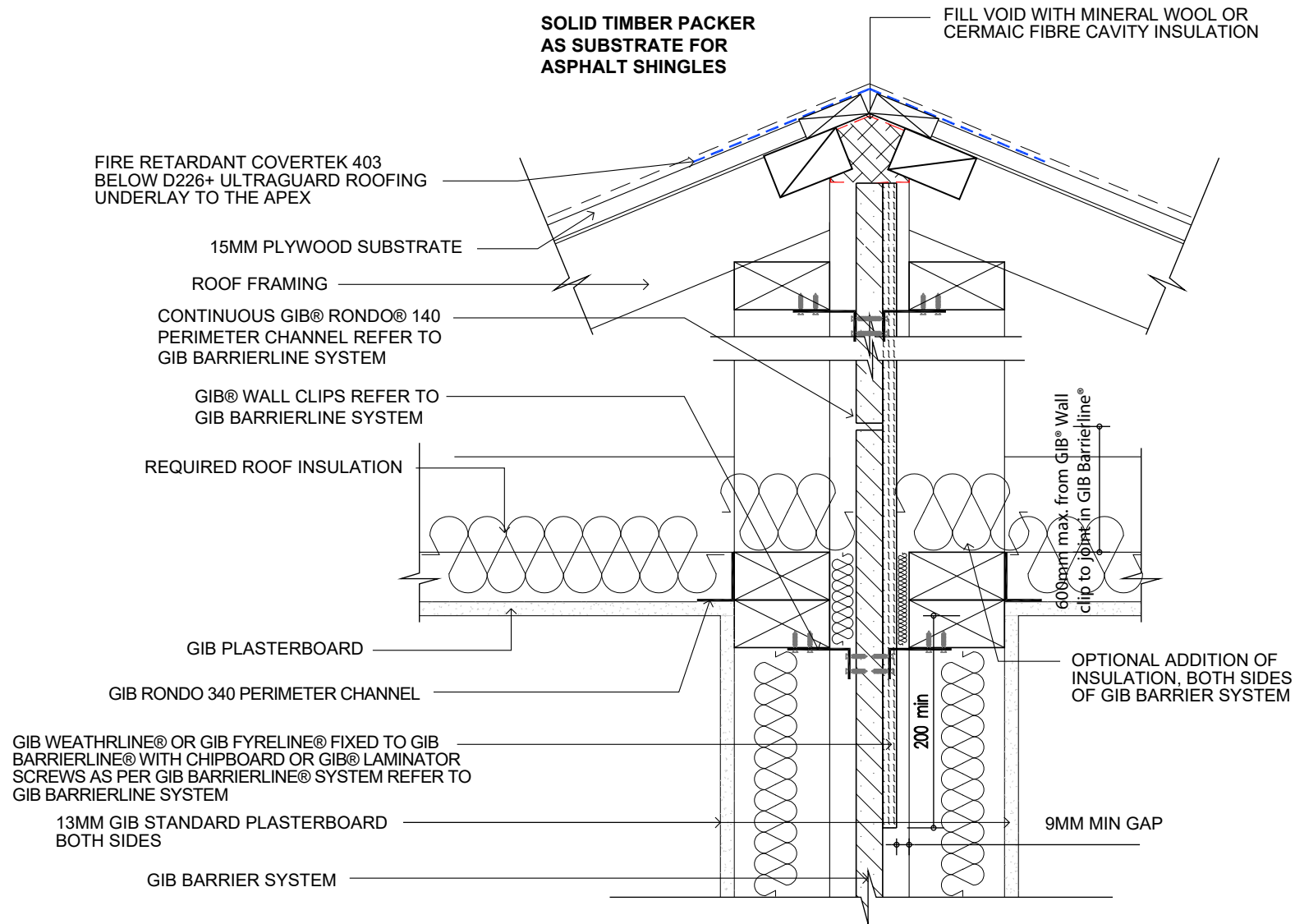
INTERTENANCY ROOF JUCTION (BLOCK WALL)

Scale: N.T.S.

Notes:

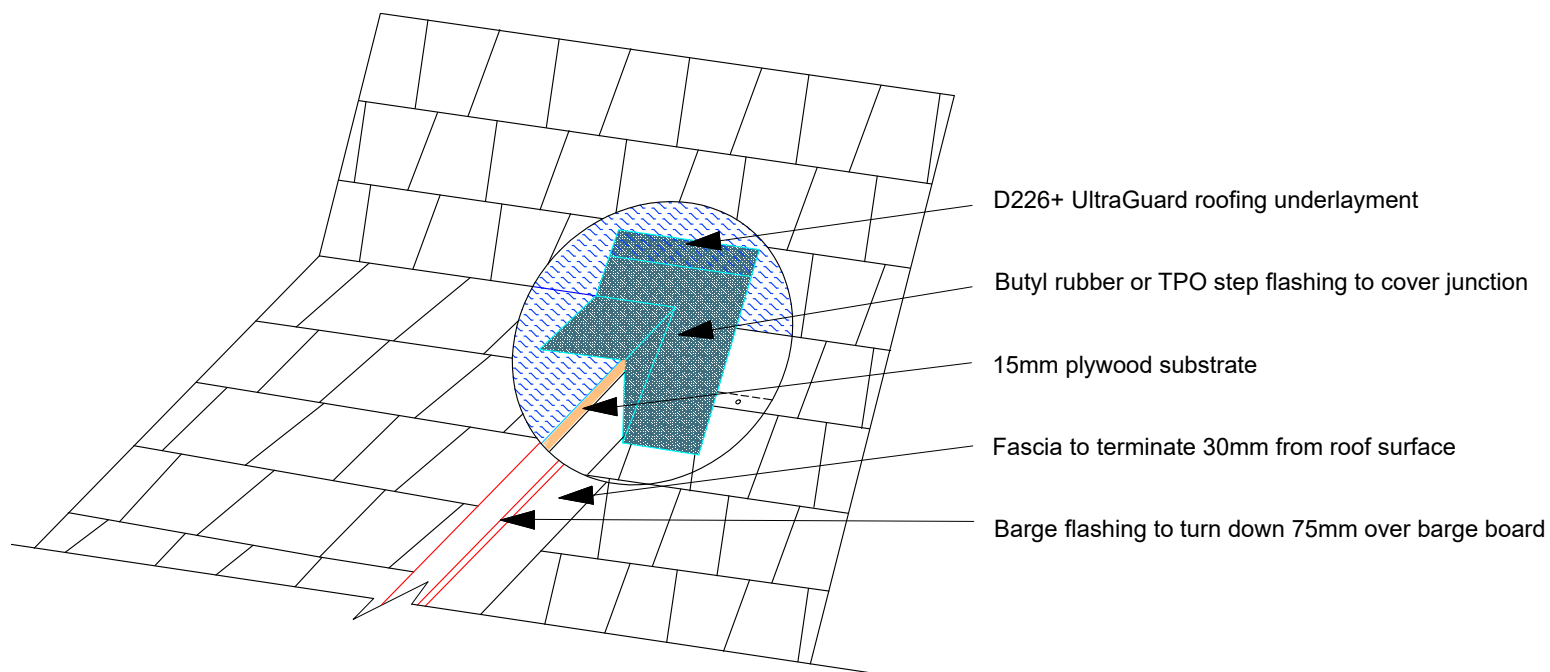
This detail has been designed by DEASIGNFIRE Architects & Fire Consultants for GAF Shingle systems, BRANZ Appraisal 529.

Detail has been externally reviewed BRANZ Technical Services.



INTERTENANCY ROOF JUCTION (GIB RIDGE APEX)

Scale: N.T.S.



SHINGLE ROOF DUTCH DROMER GABLE

Scale: N.T.S.

Notes:

Step flashings are formed from Butyl or EPDM Rubber or TPO membrane sheet.

Step flashings are fixed with shingle nails to the wall and plywood deck.

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 (SHINGLE FIXINGS ONLY)
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 MUST BE 6 NAILS PER TILE AND ALL SHINGLE RAKES AND EAVES TO BE GLUED WITH APPROVED ROOFING CEMENT (BLACKJACK).

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 2mm 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 20% MOISTURE CONTENT AT THE TIME OF APPLICATION OF MATERIALS.

ULTRAGUARD D226+ OR BRANZ APPRAISAL 529. SPECIFIED UNDERLAY USED WITH ASPHALT SHINGLE ROOFING. SEE BRANZ.529 2025. UNDERLAYS TO BE LAID WITH MIN 100mm END LAPS.

For Technical Assistance
email technical@gaf.nz
call 0800 423355
visit www.gafr Roofing.co.nz

Technical Specification for New Zealand, 2 August 2012

FIXING SPECIFICATIONS

1 ROOF PENETRATIONS:

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

2 UNDERLAYMENT:

APPLY ULTRAGUARD 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.

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. ALWAYS FOLLOW MANUFACTURERS INSTRUCTIONS FOR NAIL POSITIONING. 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.

1. FIRST COURSE START AT RAKE AND CONTINUE COURSE WITH FULL SHINGLES LAID FLUSH WITH THE STARTER COURSE. SHINGLE OFFSETS MUST BE A MINIMUM OF 150mm FROM THE SHINGLE BELOW.

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.

Contact Information

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

TPO And Coatings Warehouse
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
gafrroofing.co.nz | 0800 42 3355

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



**New Zealand
Distributor**

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Roofing Systems



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0800 423355