

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
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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.