



Thursday, August 02, 2012

CONSTRUCTION DETAILS FOR  
**'GAF ASPHALT SHINGLE ROOFING SYSTEM' BRANZ.529 2012**

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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.

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## FIXING SPECIFICATIONS

### **1 ROOF PENETRATIONS:**

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

### **2 UNDERLAY:**

APPLY ASTM D226 HEAVY DUTY BITUMEN BASED ROOFING UNDERLAY OVER PLYWOOD SUBSTRATE IN ACCORDANCE WITH NZBC E2 REQUIREMENTS 8.1.5 ALL ROOF UNDERLAYS SHALL HAVE LAPS NO LESS THAN 100mm WHERE REQUIRED, 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 = 10°

FOR ROOF PITCHES 10 - 12 DEGREES COMPLETELY COVER ROOF WITH 2 LAYERS OF UNDERLAY IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS FOR ROOF PITCHES 12 DEGREES AND GREATER COMPLETELY COVER ROOF AREA WITH 1 LAYER OF ROOFING UNDERLAY

### **4 STARTER SHINGLE COURSE**

USE AN ELK 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 SHINGLES

#### **3. THIRD COURSE**

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

#### **4. FOURTH COURSE**

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

#### **5. FIFTH AND SUCCEEDING COURSES**

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

### **5 FASTENERS**

ALLWAYS NAIL THROUGH THE FASTENER LINE SHINGLING NAILS: STAINLESS STEEL GUN NAILS WITH 19mm HEAD, SEMI RING SHANKED, 32mm OR 25mm IN LENGTH WITH A 3mm DIAMETER SHANK. ELK RECOMMENDS 30mm FOR NEW ROOFS AND 40mm FOR ROOF OVERS. IN CASES WHERE YOU ARE 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 EAVES 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 RAISED NAILS THAT CAN CAUSE A FISHMOUTHED APPEARANCE AND PREVENT SEALING FASTENERS SHOULD BE LONG ENOUGH TO OBTAIN A 19mm PENETRATION OR PENETRATION THROUGH SUBSTRATE, WHICHEVER IS LESS

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