



# Quick Specification Guide

## For Designers and Territorial Authorities

### 1.1 Substaight

Recommended: CCH ECOPLY Roof Ply 15mm DD T&G in 2400mm & 2700mm

Not Recommended: 17mm F8 Floor Ply

(The plywood substrate should not be used as a bracing element as there may be additional requirements)

Truss Spacing's should be at either 800mm or 900mm centers for all wind zones except for a roof pitch below 20 degrees in a very high wind zone in this case 800mm truss centers should be used.

Hot Dip Galvanized Fixings should be used to fix both H3 and Untreated plywood products, installed to manufacturer installation instructions

#### GAF Asphalt Roofing Shingles substrate limitations:

1. **H3 CCA** - For Skillion or closed cavity roofing and including all roof planes below 12 degrees
2. **Untreated** - For Standard ventilated roof cavity (Truss Roof Cavity) for application above 12 degrees

#### GAF Asphalt Roofing Shingle suitability limitations:

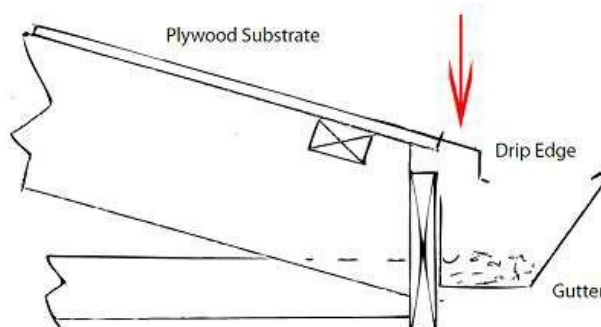
1. The plywood substrate should not be used as a bracing element.
2. Minimum pitch for GAF Asphalt Roofing Shingles 9 degrees.

### 1.2 Flashings

#### Concealed Plywood/ Drip edge system

The plywood substrate terminates behind the front edge of the fascia concealing its exposure to the gutter and keeping it within the building envelope. Also plywood termination should finish a minimum 10mm forward from of the truss top chord plum cut, with some variance depending on the fascia/ gutter type being used.

The concealed plywood system does not require an H3 plywood strip at the eave.



**Stop end Flashings** - feed into the gutters and are the PVC, TPO, Metal type as required by submitted specification.

**Apron Flashing Terminations** - where the apron flashing is turned outward to allow the builder to Aluband tape the junction between the apron flashing and the cladding itself. Apron flashings should be formed from Butyl rubber, TPO or metal that provides excellent flexibility and weather tightness required in such situations. These turnouts must be formed in situ to the correct shape and pitch required to achieve a neat and weather tight termination to the apron flashing.

There is no available prefabricated PVC apron turnout. This is due to the many variables in pitch and shapes that would have to be accommodated in such situations.

## 1.3 Underlay

Asphalt shingle underlayment's are an integral component forming part of a wider 'Alternative Solution' roofing system and in support of the BRANZ appraised GAF brand of shingles roofing system. BRANZ readily identify these underlayment's in appraisal .529 as meeting the international certification standard for Asphalt Shingle Roofing and as an alternative solution.

- *Product name:* LEATHERBACK UNDERFELT
- *ASTM Standard:* ASTM: D-226

## 1.4 Shingles

GAF roof shingles are Branz appraised (.529) and are suitable for:

- ✓ sea spray zones
- ✓ Very high wind zones
- ✓ Snow and alpine environments

All of our 30 year products including New Zealand's most popular shingle the Timberline HD 30 fall inside the light weight roof category of 20 KG per Square or less including plywood.

- **Plywood**, 15mm Plywood weight (8.3 kg per square meter).
- **30 year weight shingles**, (11.49 kg per square meter) installed on 15mm plywood substrate, with trusses spaced @ .800mm to .900mm centers.
- **40 year weight shingles**, ( 14.9 kg per square meter ) installed on 15mm ply, @ a truss spacing of .800 to .900mm centers.
- **50 year weight shingles**, ( 18.7 kg per square meter ) installed on 15mm ply, @ a truss spacing of .600 to .800mm centers.

## 1.5 Fixings

GAF roofing shingles installed in New Zealand should be fix with ether Stainless steel or approved Hot Dip Galvanized 25mm or 32mm nails with 8 -9mm heads. Although these fixings are concealed it is recommended to use of Stainless Steel within sea spray zones. Note; 45mm nails used to fix ridge vent and ridge capping must be Stainless Steel as part of the shank is exposed.

## 1.6 Water Collection

GAF roof shingles have been tested in New Zealand for water collection and meet the drinking water standards of New Zealand. However we always recommend fully filtering any atmospheric water collection. Also some GAF products (optional) have StainGuard – a small copper chip made by 3M imbedded in the shingle surface to inhibit Algae. Most people are not affected by copper however some are, so we don't recommend using a product like StainGuard ( or copper gutters) for collecting drinking water.

*Specify GAF Asphalt shingles with absolute confidence and peace of mind, GAF– since 1886.  
For more information Please contact us here*

**0800 GAFELK – 0800 423355      [www.gafelk.co.nz](http://www.gafelk.co.nz)**