

## TECHNICAL SPECIFICATIONS

### For Tilcor Shingle

#### TILCOR PRESSED METAL TILES

The following information contains the specifications of Classic Tile manufactured by Ross Roof Group Ltd.

#### STANDARD SPECIFICATIONS E2/AS1 8.3

The following standard specifications should be adhered to in both materials and workmanship.

NZS 2295: 1988 Breather Type Building Papers

NZS 4217: Standard for Pressed Metal Tile Roofs

NZS 3604. AS 3566 Class 3 Nails for pressed metal tiles

#### OTHER INFORMATION SOURCES AVAILABLE

- Manufacture's Shingle installation manual

#### MATERIALS

1. **Shingle tiles** are manufactured by Ross Roof Group Ltd.
2. **Base material** is Zinalume a hot dip coating of Aluminium Zinc Alloy to Coating Class AZ150 of AS1397.
3. **Protective Coating:** \*Zinalume® (\*Reg. Trademark of BIEC Intl. Inc.)
4. **Substrate Steel** — AS1397 G300 (ASTM A-792)
5. **Mechanical Properties:** Grade 33
6. **Base Metal Thickness:** .39mm (.015" Inches)
7. **Coating Weight:** AZ-150 Zinalume®
8. **Primer:** 2 Micron acrylic pigment colour coating
9. **Minimum Pitch:** 20.0 degrees

#### ACCESSORY MATERIALS

10. **E2/AS1 8.3.6** Roofing underlay shall be a self supporting breather type.
11. **150 x 25mm** H1.2 dressed both sides.
12. **E2/AS1 8.3.7** All batten nails shall be galvanised and coated to meet AS 3566 Class 3 as a minimum specification. Shingles are to be fastened using 30 x 2.8mm hot dipped galvanised nails, or 38mm galvanised staples.
13. **E2/AS1 8.3.8** Ridge hip cappings shall be supplied as standard products from Tilcor Roofing Systems.
14. **E2/AS1 8.3.8** Side flashings, barge or apron flashings are to be installed from factory made products supplied by Tilcor Roofing Systems.
15. **E2/AS1 8.3.8** Valleys may be used as supplied pre-finished in 2.4 metre lengths by Tilcor Roofing Systems or made to order out of 0.55mm coloursteel in a matching colour from a sheet metal fabricator. If made to order, valleys should have similar dimensions to those supplied by Tilcor Roofing Systems.

#### WARRANTIES

##### Installation Warranty:

Tilcor roofs may only be installed by trained fixers employed or contracted to a registered Tilcor Roofing Systems installer. The installation carries a 5 year fixing warranty from the distributor.

##### Textured Weather Security Warranty:

A 50 year pro-rata weatherproof warranty. This warranty is a full 25-year weatherproof warranty plus a diminishing pro-rata weatherproof warranty for the subsequent 25-years.

### Textured Surface Coating Warranty:

A 10 year full surface coat warranty plus a diminishing pro-rata warranty for a further 10 years.

### Structure (B1)

When installed according to the manufactures recommendations the Tilor roofing products will allow provisions of NZBC B1.3.1, B1.3.2 and B1.3.4 to be met for the relevant provisions of B1.3.3.

### Durability (B2)

Without recoating, the Tilor products will meet the provisions of NZBC B2.3(C) for 15 years, when used and maintained as directed by our manufacturing installation manual.

### WIND ZONES

#### Battens

When fixed in accordance with Tilor Roofing Systems specifications the Shingle Tile is suitable for use in all NZS 3604 Wind Zones, up to, and including Extra High. In NZS 3604 very high building wind zones, 150 x 25mm battens are to be secured using 2 x 90 x 3.15 power driven nails for the Main & Periphery roof areas.

#### Sheathing

18 mm thick, untreated, tongue and groove structural plywood complying with AS/NZS 2269.  
Sheathing Nails: 60 x 2.87 mm flathead hot dip galvanised ring shank gun nails.

The sheathing must be nail fixed in accordance with the table on the right using Gerard TopTech Sheathing Nails (60 x 2.87 mm flathead hot dip galvanised ring shank nails). Fixings must be positioned no closer than 10 mm to the sheet edges. Any sheet end edges greater than 120 mm from framing support must be supported by framing.

#### Fixing centres for Sheathing

NZS 3604 Wind Zone. Nail Fixing Centres (mm) at Supports. Roof Slopes 20 - 35°

|            | 0.2w* from Edge** | Beyond 0.2w* i.e. remainder of roof | Roof Slope 20 – 40° |
|------------|-------------------|-------------------------------------|---------------------|
| Low        | 100               | 200                                 | 200                 |
| Medium     | 75                | 150                                 | 150                 |
| Very High  | 50                | 75                                  | 75                  |
| Extra High | 35                | 65                                  | 65                  |

### SNOW LOADING

The Tilor roofing products are suitable for use where buildings are designed for the 1kPa snow loading.

### WATER SUPPLIES (G12)

Rainwater collected from Tilor roofs will meet the provisions of NZBC G12.3.1, providing the surface coating is maintained as directed. It is recommended that a potable water collection system is not installed until 3 good rainfalls have washed the new roof surface. Similarly when the roof is cleaned with MossBoss to remove mould and algae during maintenance the water supply should also be disconnected as directed.

### SPECIFICATIONS

| Shingle               | Textured |
|-----------------------|----------|
| Overall Length:       | 1340 mm  |
| Length of Cover:      | 1250 mm  |
| Width of Cover:       | 255 mm   |
| Roof Cover / Shingle: | 0.32     |
| Tiles / m2:           | 3.2      |
| Weight / Tile:        | 2.0 kg   |
| Weight / m2:          | 6.40 kg  |
| Minimum Roof Pitch:   | 20 deg   |



### Ross Roof Group