

External Moisture

To Whom It May Concern

Re: Gerard Roof Tiles External Moisture. NZBC and Specific Engineering Design.

NZBC E2 requires that a roof provide adequate resistance to penetration by, and the accumulation of, moisture from the outside.

Gerard Roofs have been in service for more than 50 years and we offer a 50 year warranty on our metal roofing tiles even in extreme environments.

E2/AS1 Section 8.3 Pressed Metal Tile, The Metal Roofing and Wall Cladding Code of Practice and Gerard Roofs Installation manual provide details which outline the installation of the roofing system so that the roofing system meets the NZBC E2 requirements.

Wall Flashing Details

E2/AS1 requires the use of wall flashings specific to the wind zone in which the roofs will be fastened - these relate to the minimum cover that the wall must cover the flashing up-stand. In situations where the wind zone is higher than Extra High the flashings specified in the Extra High Wind Zone should be used. This requires coverage of 90 mm.

Gerard roofs install roofs in cyclonic regions of Australia where wind speeds of 240 km/hr have occurred without issues with standard flashings.

Roofing Underlays

Pressed metal tiles have to have an underlay that meets the requirements of NZS 2295:2006. The Bitumen based underlays are not suitable for Extra High or above Wind Zones however there are some Synthetic roofing underlays that have been approved by BRANZ which are suitable for the Extreme Wind Zones.

A Synthetic roofing underlay should be used under roofs that are located in Extra High or Specific Engineering Designed situation.

In summary, we have confidence that roofs installed as per Gerard Roofs installation manual and maintained in accordance with our warranty will last in excess of 50 years, we have installed roofs in New Zealand for more than 50 years and have significant numbers of installations in cyclonic regions where the wind and rainfall levels exceed those of the New Zealand Environment.

Should this not address your concerns, please feel free to contact me in person so I can better understand your reservations.

Regards

Dean Vincent

Peter Richards

Sales and Marketing Manager

Product Innovation Manager

New Zealand and Pacific Regions