NZ METAL ROOFING MANUFACTURERS INC.

End Spans of Roofing Sheets

The Metal Roofing and Wall Cladding Code of Practice (COP) recommends reducing end spans to 2/3 of internal spans. The main benefit of reduced end spans is to resist point loads at common points of entry. Point-load performance is not critical for compliance.

Our load testing is done over 5 spans to minimise end span influence, with three equal full spans and two reduced end spans. Failure regularly occurs at the two internal purlin lines which have a full span on either side. Testing with 5 equal spans reduces wind load performance by about 10%.

As we are aware that the 2/3 end span is not often applied in residential buildings, the Metal Roofing Code of Practice load/span tables have factored this into our tables. The tables in E2/AS1 are again a more conservative reflection of the COP tables.

It is, therefore, reasonable to presume that using the load/span fixing patterns in E2/AS1, where reduced end spans are not applied, will still comply with the performance requirements of NZBC B1-Structure

Yours sincerely,

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