



HARRISON  
GRIERSON

31 March 2005

**CERTIFICATION OF CEDAR SHINGLES & SHAKES FOR  
SOUTH PACIFIC SHINGLES (2003) LIMITED**

This is to certify that Harrison Grierson Consultants Limited has been engaged by South Pacific Shingles (2003) Ltd to conduct an independent literature review on Western Red and Alaskan Yellow cedar shingles and shakes, which are produced in Canada and imported by the company for distribution in New Zealand. Our review is to determine the suitability of the shingles and shakes for roof and wall cladding for residential and commercial projects in New Zealand.

The technical documents we have reviewed include the technical information from Design and Application Manual for New Roof Construction (Metric Edition) produced by Cedar Shake and Shingle Bureau in 1991, and other cedar shingle literature downloaded from the internet including the BRANZ bulletin No 443.

**Product**

Western Red and Alaskan Yellow cedar shingles and shakes, imported by South Pacific Shingles (2003) Ltd, are produced in Canada and have been widely used in the USA and Canada. The Certigrade Red Cedar shingles have a warranty of 20 years for the USA and Canadian applications.

**Certification**

Following our review of the technical literatures, we conclude that the Western Red and Alaskan Yellow cedar shingles and shakes imported by South Pacific Shingles (2003) Ltd will comply with the requirements of New Zealand Building Code in terms of B2 (Durability) requirements of 15 years for roof and wall cladding and E2 (External Moisture) and are suitable to be used in New Zealand on the following provisions:

1. Installation of the cedar shingles and shakes shall comply with the cedar shingle and shakes manufacturer's specification and the installation guide and the recommendation of BRANZ Bulletin No 443.
2. Grades - for roof use Premium Grade with Copper Chrome Arsenate (CCA) treatment carried out by licensed treatment plant, with salt retention of 6.4kg/m<sup>3</sup> or higher.
3. Cedar shingles to be laid over breather type building paper on plywood sarking or similar treated timber boarding to comply with New Zealand Building Code. Thickness of the plywood or timber boards shall be determined by a qualified person to suit the spacing of the supporting members.
4. Fixing - As recommended by the cedar manufacturers as stated in the BRANZ bulletin No 443 Table 3. For CCA treated cedar shingles and shakes, silicon bronze or Grade 304 stainless steel nails or staples shall be used.
5. This certification is valid under the current available technical information and the New Zealand Building Code.

Prepared By

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Harrison Grierson Consultants Limited

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