



**BRANZ Appraised**

Appraisal No.495 [2006]

**BRANZ Appraisals**

Technical Assessments of products  
for building and construction

**BRANZ  
APPRAISAL  
No. 495 (2006)**

Amended 20 November 2007

**ROSEBURG  
CEDAR-TONE  
SUPER PLY CAVITY  
SYSTEM**

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## Product

1.1 The Roseburg Cedar-Tone Super Ply Cavity System is a cavity-based wall cladding. It is designed to be used as an external wall cladding system for residential and light commercial type buildings where domestic construction techniques are used.

1.2 The system consists of Roseburg Super Ply sheets, which are plywood wall cladding sheets that are finished with either a plain or grooved exterior face; cover battens and boxed corners, and timber moulding. The cladding system is finished with an exterior grade penetrating oil-based stain.

1.3 The cladding incorporates a primary and secondary means of weather resistance (first and second line of defence) against water penetration by separating the cladding from the external wall framing with a nominal 20 mm cavity.



## Scope

2.1 The Roseburg Cedar-Tone Super Ply Cavity System has been appraised as an external wall cladding for buildings within the following scope:

- the scope limitations of NZBC Acceptable Solution E2/AS1, Paragraph 1.1; and
- constructed with timber framing complying with the NZBC; and
- with a risk score of 0-20, calculated in accordance with NZBC Acceptable Solution E2/AS1, Table 2; and
- situated in NZS 3604 Building Wind Zones up to, and including 'Very High'; and
- detached and located 1 metre or more from the relevant boundary.

2.2 Roseburg Super Ply sheets must only be installed to vertical, flat surfaces.

2.3 The system is appraised for use with aluminium window and door joinery that is installed with vertical jambs and horizontal heads and sills. (*The Appraisal of the Roseburg Cedar-Tone Super Ply Cavity System relies on the joinery meeting the requirements of NZS 4211 for the relevant Building Wind Zone.*)

## Building Regulations

### New Zealand Building Code (NZBC)

3.1 In the opinion of BRANZ, the Roseburg Cedar-Tone Super Ply Cavity System if designed, used, installed and maintained in accordance with the statements and conditions of this Appraisal, will meet the following provisions of the NZBC:

**Clause B1 STRUCTURE:** Performance B1.3.1, B1.3.2 and B1.3.4. The Roseburg Super Ply Cavity System meets the requirements for loads arising from self-weight, wind and human impact [i.e. B1.3.3 (a), (h) and (j)]. See Paragraphs 10.1 - 10.4.

**Clause B2 DURABILITY:** Performance B2.3.1 (b), 15 years. The Roseburg Super Ply Cavity System meets this requirement. See Paragraph 11.1.

**Clause E2 EXTERNAL MOISTURE:** Performance E2.3.2. The Roseburg Super Ply Cavity System meets this requirement. See Paragraphs 15.1 - 15.5.

**Clause F2 HAZARDOUS BUILDING MATERIALS:** Performance F2.3.1. The Roseburg Super Ply Cavity System meets this requirement and will not present a health hazard to people.

3.2 This is an Appraisal of an **Alternative Solution** in terms of New Zealand Building Code Compliance.

## Technical Specification

4.1 System components and accessories supplied by Cedar Products NZ Ltd are as follows:

### Roseburg Cedar-Tone Super Ply Sheets

- Roseburg Super Ply sheets are 11.7 mm or 15 mm thick plywood. The sheets are faced with premium grade Okoume. The inner plies are Oregon and the back veneer is minimum C grade 'imported' or Western Softwoods. The sheets are coated with a protective stain prior to them being imported by Cedar Products NZ Ltd.
- 11.7 mm thick Roseburg Super Ply sheets have square edges and are available in sizes of 1200 and 1220 mm wide and 2440, 2745 and 3050 mm long. The exterior face of the sheets has a plain, light band-sawn surface. 15 mm thick sheets have ship lap edges and are available in sizes of 1200 mm wide and 2440, 2745 and 3050 mm long. The exterior face of the sheet has a light band-sawn surface and is grooved at 100 or 200 mm centres.

### Accessories

- Boxed corner boards - 90 x 19 mm and 65 x 19 mm Western Red Cedar with 6 x 6 mm weathergrooves.
- External cover battens - 65 x 19 mm Western Red Cedar with 6 x 6 mm weathergrooves.
- Exterior moulding - 19 x 19 mm Western Red Cedar.
- Roseburg Super Ply sheet fixings - 65 x 3.2 mm Grade 316 stainless steel or silicone bronze flat head annular grooved nails.
- External cover batten fixings - 65 x 3.2 mm Grade 316 stainless steel or silicone bronze flat or round head annular grooved nails.

4.2 Accessories used with the system which are supplied by the building contractor are:

- Building wrap - paper or wrap complying with NZBC Acceptable Solution E2/AS1 Table 23, or breather-type membranes covered by a valid BRANZ Appraisal for use as wall wraps.
- Building wrap support - polypropylene strap, 75 mm galvanised wire mesh, galvanised wire, or additional vertical battens for securing the building wrap in place and preventing bulging of the bulk insulation into the drainage cavity. (*Note: mesh and wire galvanising must comply with AS/NZS 4534.*)
- Flexible sill and jamb flashing tapes - flexible flashing tapes complying with NZBC Acceptable Solution E2/AS1 Paragraph 4.3.11, or flexible flashing tapes covered by a valid BRANZ Appraisal for use around window and door joinery openings.
- Timber cavity battens - nominal 50 mm wide by 25 mm thick (minimum finished size of 45 mm wide by 18 mm thick) timber treated to Hazard Class H3.1.
- Cavity batten fixings - 30 x 2.5 mm hot-dipped galvanised flat head nails.
- Cavity vent strip - PVC, aluminium or stainless steel, punched with 3-5 mm holes or slots complying with NZBC Acceptable Solution E2/AS1, Paragraph 9.1.8.3.

- Inseal® 3109 tape - black, compressible, low density PVC foam. The foam is coated on one side with pressure sensitive acrylic adhesive and the other face is covered by a silicone release paper. The tape is 19 mm thick and is supplied in rolls 10 mm wide and 12 m long.
- Window and door trim cavity airseal - air seals complying with NZBC Acceptable Solution E2/AS1 Paragraph 9.1.6, or self-expanding, moisture cure polyurethane foam air seals covered by a valid BRANZ Appraisal suitable for use around window, door and other wall penetration openings.
- Joinery head flashings - as supplied by the joinery manufacturer or contractor.
- Horizontal joint flashing - folded from aluminium or galvanised steel. Refer to NZS 3604, Section 4 and NZBC Acceptable Solution E2/AS1, Table 20 for material selection durability requirements if not otherwise specified.
- Flexible sealant - sealant complying with NZBC Acceptable Solution E2/AS1, or sealant covered by a valid BRANZ Appraisal for use as a weather sealing sealant for exterior use.

### Finishing System Specification

- At least 2 coats of an exterior quality oil-based penetrating stain must be used over the Roseburg Super Ply sheets to protect the plywood and give the desired finish colour to exterior walls. The stain must be recommended for use as a wall cladding stain by the manufacturer and must be roller or brush applied, not spray applied. Proprietary stain systems have not been assessed, and are outside the scope of this Appraisal. (*Note: Cedar Products NZ Ltd recommend the use of oil based stains manufactured by Wattyl, Cabots and Resene.*)

### Handling and Storage

5.1 Handling and storage of all materials supplied by Cedar Products NZ Ltd or the building contractor, whether on site or off site, is under the control of the building contractor. Super Ply sheets must be stacked flat, off the ground and supported on a level platform. They must be kept dry at all times either by storing under cover or by providing waterproof covers to the stack. Care must be taken to avoid damage to edges, ends and surfaces. The uPVC vent strip must be protected from direct sunlight and physical damage, and should be stored flat and under cover.

5.2 Cavity battens and other accessories must be stored so they are kept clean, dry and undamaged. All accessories must be used within the maximum storage period recommended by the manufacturer.

## Technical Literature

6.1 Refer to the Appraisals listing on the BRANZ website for details of the current Technical Literature for the Roseburg Cedar-Tone Super Ply Cavity System. The Technical Literature must be read in conjunction with this Appraisal. All aspects of design, use, installation and maintenance contained in the Technical Literature and within the scope of this Appraisal must be followed.

## Framing

### Timber Treatment

7.1 Timber wall framing behind the Roseburg Cedar-Tone Super Ply Cavity System must be treated as required by NZS 3602.

### Timber Framing

7.2 Timber framing must comply with NZS 3604 for buildings or parts of buildings within the scope limitations of NZS 3604. Buildings or parts of buildings outside the scope of NZS 3604 must be to a specific design in accordance with NZS 3603 and NZS 4203. Where specific design is required, the framing must be of at least equivalent stiffness to the framing provisions of NZS 3604. In all cases studs must be at maximum 600 mm centres. Dwargs must be fitted flush between the studs at maximum 800 mm centres.

7.3 Timber wall framing behind cavity battens where sheets are joined must be nominal 50 mm thickness (i.e. 45 mm minimum finished thickness).

7.4 Timber framing must have a maximum moisture content of 24% at the time of the cladding application. *(Note: If Roseburg Super Ply sheets are fixed to framing with a moisture content of greater than 24% problems may occur at a later date due to excessive timber shrinkage.)*

### Roseburg Super Ply Sheet Set Out

7.5 Plain (non-grooved) Roseburg Super Ply sheets may be installed vertically or horizontally. Grooved Roseburg Super Ply sheets must be installed vertically only. All vertical sheet edges must be supported and fixed through the cavity battens to the wall framing. Horizontal sheet edges must be supported at fixing locations with cavity spacers 100 mm long maximum in accordance with the requirements of NZBC Acceptable Solution E2/AS1, Paragraph 9.1.8.2(f). At the base of the wall, the sheets must hang 50 mm below the supporting framing.

7.6 Additional framing will be required at soffits, internal and external corners and window and door openings for the support and fixing of sheet edges.

## General

8.1 Punchings in the cavity vent strip must provide a minimum ventilation opening area of 1000 mm<sup>2</sup> per lineal metre of wall in accordance with the requirements of NZBC Acceptable Solution E2/AS1, Paragraph 9.1.8.3(b).

8.2 At ground level the bottom edge of the Roseburg Super Ply sheets must be kept clear of paved surfaces, for example footpaths, by a minimum of 100 mm and unpaved surfaces by 175 mm in accordance with the requirements of NZBC Acceptable Solution E2/AS1, Table 18. The ground clearances to finished floor levels as set out in NZS 3604 must be adhered to.

8.3 At balcony, deck or low pitch roof/wall junctions, the bottom edge of the Roseburg Super Ply sheets must be kept clear of any adjacent surface, or above the top surface of any adjacent roof flashing by a minimum of 35 mm in accordance with the requirements of NZBC Acceptable Solution E2/AS1, Paragraph 9.1.3.6.

8.4 Unlined gables and walls must incorporate a rigid sheathing or an air barrier fixed to the framing, which meets the requirements of NZBC Acceptable Solution E2/AS1, Table 23. Where rigid sheathings are used, the fixing length must be increased by a minimum of the thickness of the sheathing.

8.5 Where cladding penetrations are wider than the cavity batten spacing, allowance must be made for airflow between adjacent cavities by leaving a minimum gap of 10 mm between the bottom of the cavity batten and the flashing to the opening.

8.6 Where the Roseburg Cedar-Tone Super Ply Cavity System abuts other cladding systems, designers must detail the junction to meet their own requirements and the performance requirements of the NZBC. These details are outside the scope of this Appraisal.

## Horizontal and Vertical Joints

9.1 Horizontal and vertical joints must be constructed in accordance with the Technical Literature.

*(Note: Horizontal and vertical joints must be located over structural supports. The design of vertical control joints where the system abuts different cladding types is outside the scope of this Appraisal and is the responsibility of the designer - see Paragraph 8.5.)*

### Inter-storey Junctions

9.2 Inter-storey junctions must be constructed in accordance with the Technical Literature. Inter-storey drained joints must be provided for walls over 2 storeys in height in accordance with the requirements of NZBC Acceptable Solution E2/AS1, Paragraph 9.1.9.4(b).

## Structure

### Mass

10.1 The mass of the Roseburg Cedar-Tone Super Ply Cavity System using 11.7 mm ply sheet is approximately 6.5 kg/m<sup>2</sup> at equilibrium moisture content (EMC) and the mass of the Roseburg Super Ply cavity system using 15 mm ply sheet is approximately 8.5 kg/m<sup>2</sup> at EMC, therefore the Roseburg Super Ply cavity system is considered a light wall cladding in terms of NZS 3604.

### Impact Resistance

10.2 The Roseburg Cedar-Tone Super Ply Cavity System has adequate resistance to human impact loads likely to be encountered in normal residential use. The likelihood of impact damage to the system when used in light commercial situations should be considered at the design stage, and appropriate protection such as the installation of bollards and barriers provided for vulnerable areas.

### Wind Zones

10.3 The Roseburg Cedar-Tone Super Ply Cavity System is suitable for use in all Building Wind Zones of NZS 3604, up to, and including 'Very High'.

### Roseburg Super Ply Sheet Fixings

10.4 For installations in all Building Wind Zones of NZS 3604, Roseburg Super Ply sheets must be fixed through the cavity battens to the wall framing at maximum 150 mm vertical centres along sheet edges and maximum 300 mm vertical centres in the body of the sheet. The fixings must be positioned a minimum of 12 mm from all sheet edges.

## Durability

### Serviceable Life

11.1 Roseburg Cedar-Tone Super Ply Cavity System installations are expected to have a serviceable life of at least 20 years provided the system is maintained in accordance with this Appraisal and the Roseburg Super Ply sheets are continuously protected by a stain finish.

*(Note: This opinion only covers serviceability with regards to structural and weathertightness performance. It does not cover appearance, which may deteriorate significantly, especially where proper and regular maintenance is not carried out.)*

## Maintenance

12.1 Regular maintenance is essential for Roseburg Cedar-Tone Super Ply Cavity System installations to continue to meet the NZBC durability performance provision and to maximise their serviceable life.

12.2 Annual inspections must be made to ensure that all aspects of the cladding system, including flashings and joints remain in a weatherproof condition. Any damaged areas or areas showing signs of deterioration which would allow water ingress, must be repaired immediately. Sealant, stain coatings, flashings or the plywood sheets must be repaired in accordance with the relevant manufacturer's instructions.

12.3 Regular cleaning (at least annually) of the stain finish is recommended to remove grime, dirt and organic growth, to maximise the life and appearance of the system. Grime may be removed by brushing with a soft brush, warm water and detergent.

12.4 Recoating of the stain finish will be necessary throughout the life of the cladding system. Re-staining must be carried out every 2-3 years in accordance with the stain manufacturer's instructions. Re-staining will be required more frequently on exposed northern and western facing walls. When re-staining, care must be taken to ensure bottom edges and ship lap edges are well covered and penetrated with the stain.

12.5 Minimum ground clearances as set out in this Appraisal must be maintained at all times during the life of the cladding. *(Failure to adhere to the minimum ground clearances given in this Appraisal and the Technical Literature will adversely affect the long term durability of the Roseburg Cedar-Tone Super Ply Cavity System.)*

## Control of External Fire Spread

13.1 The Roseburg Cedar-Tone Super Ply Cavity System is considered to meet the performance provisions of NZBC C3.3.5 for use as an external wall cladding when restricted to:

- Single storey buildings 1 m or more from the relevant boundary for all purpose groups.
- Buildings with a building height of less than 7 m and located 1 m or more from the relevant boundary, for all purpose groups other than SC and SD.
- Fully sprinklered buildings with a building height of less than 25 m and located 1 m or more from the relevant boundary for all purpose groups other than SC, SD, SA and SR.
- Buildings containing purpose group SH, with a building height less than 10 m and located 1 m or more from the relevant boundary.

*(Note: The scope of this Appraisal limits building heights to 10 m in accordance with the limitations of NZBC Acceptable Solution E2/AS1, Paragraph 1.1(a). The building heights referenced in Paragraph 13.1 above are as defined in the Definitions Section of the Fire Safety Clauses of the NZBC.)*

## Outbreak of Fire

14.1 The Roseburg Cedar-Tone Super Ply Cavity System must be separated from chimneys and flues in accordance with the requirements of NZBC Acceptable Solution C/AS1 Part 9 for the protection of combustible materials.

## External Moisture

15.1 The Roseburg Cedar-Tone Super Ply Cavity System, when installed and maintained in accordance with this Appraisal and the Technical Literature prevents the penetration of moisture that could cause undue dampness or damage to building elements.

15.2 The cavity must be sealed off from the roof and sub-floor space to meet compliance with NZBC Clause E2.3.5.

15.3 The Roseburg Cedar-Tone Super Ply Cavity System allows excess moisture present at the completion of construction to be dissipated without permanent damage to building elements to meet compliance with NZBC Clause E2.3.6.

15.4 The details given in the Technical Literature for weather sealing are based on the design principle of having a first and second line of defence against moisture entry for all joints, penetrations and junctions. The ingress of moisture must be excluded by detailing joinery and wall interfaces as shown in the Technical Literature. Weathertightness details that are developed by the designer are outside the scope of this Appraisal and are the responsibility of the designer for compliance with the NZBC.

15.5 The use of the Roseburg Cedar-Tone Super Ply Cavity System where there is a designed cavity drainage path for moisture that penetrates the cladding, does not reduce the requirement for joints, penetrations and junctions to remain weather resistant.

## Installation Information

### Installation Skill Level Requirements

16.1 Installation of Roseburg Super Ply sheets and accessories supplied by Cedar Products NZ Ltd and the building contractor must be completed by tradespersons with an understanding of cavity construction and plywood sheet installation, in accordance with instructions given within the Roseburg Cedar-Tone Super Ply Cavity System Technical Literature and this Appraisal.

## System Installation

### Building Wrap and Flexible Sill and Jamb Tape Installation

17.1 The selected building wrap and flexible sill and jamb tape system must be installed by the building contractor in accordance with the wrap and tape manufacturer's instructions prior to the installation of the cavity battens. Particular attention must be paid to the installation of the building wrap and sill and jamb tapes around window and door openings to ensure a continuous seal is achieved and all exposed timber wall framing in the opening is protected.

### Cavity Battens

17.2 Cavity battens must be installed over the building wrap to the wall framing at maximum 600 mm centres where the studs are at maximum 600 mm centres or at 400 mm centres where the studs are at 400 mm centres. The battens must be temporarily fixed in place with 30 x 2.5 mm hot-dip galvanised flat head nails at maximum 800 mm centres.

17.3 Where studs are at greater than 450 mm centres, a building wrap support must be installed over the building wrap between the cavity battens at maximum 300 mm centres.

### Aluminium Joinery Installation

17.4 Aluminium joinery and associated head flashings must be installed by the building contractor in accordance with the Technical Literature. A 7.5 - 10 mm nominal gap must be left between the joinery reveal and the wall framing so a PEF rod and air seal can be installed after the joinery has been secured in place.

## Roseburg Super Ply Sheet Installation

17.5 Prior to installation of the Roseburg Super Ply sheets, a check must be made to ensure all sheet joints will be supported by framing. Sheets must be fixed through the cavity battens and cavity spacers to the timber framing with 65 x 3.2 mm flat head, annular grooved nails.

17.6 Sheets must be dry prior to installation. Before fixing, the vertical and horizontal edges of the sheet and the ship lap joint must be pre-stained with an application of the finishing stain.

17.7 Sheets at battened joints must be installed with a 3 mm gap between the sheet edges. Sheets at ship lap joints must be installed with a 1.5 mm gap between the sheet edges.

17.8 Sheets must not be fixed to inter-storey joists or blocking, and must have a 10 mm gap between sheet edges at this point to allow for shrinkage of the framing. This gap must be flashed with a horizontal control joint flashing to prevent moisture entry.

### Boxed Corners, Cover Battens and Mouldings

17.9 External corners must be finished with boxed corners formed by nailing 90 x 19 mm and 65 x 19 mm Western Red Cedar boxed corner boards together with 65 x 3.2 mm flat head, annular grooved nails. The formed boxed corners are fixed through the Roseburg Super Ply sheets to the cavity battens with 65 x 3.2 mm flat head, annular grooved nails.

17.10 Battened joints must be covered with 65 x 19 mm Western Red Cedar cover battens fixed to the cavity battens or cavity spacers with 65 x 3.2 mm flat or round head, annular grooved nails.

17.11 Internal corners must be finished with 19 x 19 mm Western Red Cedar moulding fixed through the Roseburg Super Ply sheets to the cavity battens with 65 x 3.2 mm flat head, annular grooved nails.

### Finishing

17.12 The stain manufacturer's instructions must be followed at all times for application of the stain finish.

### Inspections

17.13 The Technical Literature must be referred to during the inspection of Roseburg Cedar-Tone Super Ply Cavity System installations.

## Health and Safety

18.1 Safe use and handling procedures for the components that make up the Roseburg Cedar-Tone Super Ply Cavity System are provided in the relevant manufacturer's Technical Literature.

18.2 Cutting of Roseburg Super Ply sheets must be carried out in well ventilated areas, and eye protection should be worn.

## Basis of Appraisal

The following is a summary of the technical investigations carried out:

### Tests

19.1 The following testing has been completed by BRANZ:

- BRANZ expert opinion on NZBC E2 code compliance for the Roseburg Cedar-Tone Super Ply Cavity System was based on testing and evaluation of all details within the scope as stated within this Appraisal. The Roseburg Cedar-Tone Super Ply Cavity System was tested to E2/VM1. The testing assessed the performance of the foundation detail, window head, jamb and sill details, meter box head, jamb and sill details, vertical and horizontal joints, internal and external corners and balustrade to wall junction with a metal cap. In addition to the weathertightness test, the details contained within the Technical Literature have been reviewed, and an opinion has been given by BRANZ technical experts that the system will meet the performance levels of Acceptable Solution E2/AS1 for drained cavity claddings.

19.2 The Pittsburgh Testing Laboratory, USA, has carried out the following tests on typical Roseburg Super Ply cladding: dry racking, wet racking, and glue bond evaluation - vacuum pressure, 2-cycle boil and 9-cycle boil. The results were reviewed by BRANZ and found to be satisfactory.

19.3 The APA - Engineered Wood Association performs routine vacuum and 2-cycle boil testing on Super Ply cladding. A sample of the results were reviewed by BRANZ and found to be satisfactory.

### Other Investigations

20.1 The widespread use of plywood cladding and weatherboards, particularly in North America over many years, has been noted. This includes satisfactory durability, structural, and weathertightness performance, and non-hazardous properties. In particular, the strength, structural performance, and design criteria for plywood are well documented both overseas and in New Zealand. The performance of Roseburg Super Ply cladding in New Zealand since 1994 has also been considered.

20.2 Site visits have been carried out by BRANZ to assess the practicability of installation, and to examine completed installations.

20.3 The Technical Literature for the Roseburg Cedar-Tone Super Ply Cavity System has been examined by BRANZ and found to be satisfactory.

## Quality

21.1 The manufacture of Roseburg Super Ply sheets by Roseburg Forest Products has not been examined by BRANZ, but details regarding the quality and composition of the materials used were obtained by BRANZ and found to be satisfactory. Roseburg Super Ply sheets are inspected and certified by APA - The Engineered Wood Association.

21.2 The quality of materials, components and accessories supplied by Cedar Products NZ Ltd is the responsibility of Cedar Products NZ Ltd.

21.3 Quality of installation on site of components and accessories supplied by Cedar Products NZ Ltd and the building contractor is the responsibility of the installer.

21.4 Designers are responsible for the building design, and building contractors are responsible for the quality of installation of framing systems and joinery, building wraps, flashing tapes, airseals, joinery head flashings, cavity battens and Roseburg Super Ply sheets in accordance with the instructions of Cedar Products NZ Ltd.

21.5 Building owners are responsible for the maintenance of Roseburg Cedar-Tone Super Ply Cavity System installations in accordance with the instructions of Cedar Products NZ Ltd.

## Sources of Information

- NZS 3602: 2003 Timber and wood-based products for use in building.
- NZS 3603: 1993 Timber Structures Standard
- NZS 3604: 1999 Timber framed buildings.
- NZS 4203: 1992 General structural design and design loadings for buildings.
- NZS 4211: 1985 Specification for performance of windows.
- Compliance Document for New Zealand Building Code External Moisture Clause E2, Department of Building and Housing, Third Edition July 2005.
- New Zealand Building Code Handbook Department of Building and Housing, Third Edition May 2007.
- The Building Regulations 1992, up to, and including June 2007 Amendment.



**In the opinion of BRANZ, Roseburg Cedar-Tone Super Ply Cavity System is fit for purpose and will comply with the Building Code to the extent specified in this Appraisal provided it is used, designed, installed and maintained as set out in this Appraisal. The Appraisal is issued only to the Appraisal Holder, Cedar Products NZ Ltd, and is valid until further notice, subject to the Conditions of Certification.**

### Conditions of Certification

1. This Appraisal:
  - a) relates only to the product as described herein;
  - b) must be read, considered and used in full together with the technical literature;
  - c) does not address any Legislation, Regulations, Codes or Standards, not specifically named herein;
  - d) is copyright of BRANZ.
2. The Appraisal Holder:
  - a) continues to have the product reviewed by BRANZ;
  - b) shall notify BRANZ of any changes in product specification or quality assurance measures prior to the product being marketed;
  - c) abides by the BRANZ Appraisals Services Terms and Conditions.
3. The product and the manufacture are maintained at or above the standards, levels and quality assessed and found satisfactory by BRANZ.
4. BRANZ makes no representation as to:
  - a) the nature of individual examples of, batches of, or individual installations of the product, including methods and workmanship;
  - b) the presence or absence of any patent or similar rights subsisting in the product or any other product;
  - c) any guarantee or warranty offered by the Appraisal Holder.
5. Any reference in this Appraisal to any other publication shall be read as a reference to the version of the publication specified in this Appraisal.

For BRANZ

P Robertson  
Chief Executive

## Amendment No. 1, 20 November 2007.

The Appraisal has been amended to include the installation of plain (non-grooved) Roseburg Super Ply sheets horizontally, and to update the Appraisal format.

Date of issue: 24 March 2006