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IMPORTANT NOTICE

"Since the issue of this Certificate, a revised version of the Approved Document for the New Zealand Building Code External Moisture Clause E2 has been introduced (Third Edition - June 2004). The current version of E2/AS1 will remain valid until 1 July 2005. From this date it will be superseded by the implementation of the new document. Reference in this Appraisal Certificate to The Building Regulations and Approved Documents is specifically to the reference quoted in the Sources of Information, References or Bibliography section of the Certificate.
Users of this Certificate must satisfy themselves that they are considering the product and application in the context of the version of the Approved Documents applicable to their use. Users must also satisfy themselves that the requirement of any territorial authority, whose consent may be required in relation to use, will be met in relation to the proposed application."

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BRANZ APPRAISED

SPECIFY WITH CONFIDENCE

BRANZ Appraisals

Technical Assessments of products for building and construction

BRANZ APPRAISAL CERTIFICATE No. 441 (2003)

THE BILDON 2000 SOLID TIMBER FASCIA SYSTEM

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Product

- ***This Certificate relates to the Bildon 2000 Solid Timber Fascia System comprising timber fascia and barge board, metal fixing brackets, soakers and fastenings.***
- *The system is for use at the roof line of buildings which meet the scope of Clause 1.1.2 of NZS 3604.*
- *Installation of the system is carried out by fixers trained and registered with Total Fascia Ltd.*
- *The system must be used, installed and maintained in accordance with Total Fascia Ltd's technical information 'The Bildon 2000 Technical Manual', dated June 2003. This consists of drawing details, installation requirements and a brochure and is referenced throughout this Certificate as the 'Technical Information'.*

Fascia Bracket Connection

Building Regulations

1. New Zealand Building Code (NZBC)

In the opinion of BRANZ, the Bildon 2000 Solid Timber Fascia System, if used, installed and maintained in accordance with the statements and conditions of this Certificate, will meet, or contribute to meeting the following provisions of the NZBC:

Clause B1 STRUCTURE: Performance B1.3.1, B1.3.2 and B1.3.4 for the relevant physical conditions of B1.3.3. See Section 5.

Clause B2 DURABILITY: Performance B2.3.1(b), 15 years. See Section 6.

Clause E2 EXTERNAL MOISTURE: Performance E2.3.2. See Section 9.

Clause F2 HAZARDOUS BUILDING MATERIALS: Performance F2.3.1. The system will not be harmful to people.

Product Information

2. Description

2.1 The Bildon 2000 Solid Timber Fascia System consists of pre-primed or pre-painted fascia and barge boards which are connected to framing using fascia and gable (barge) brackets of coil coated galvanised or stainless steel. Fascia and barge boards are supplied in 6 m lengths and are available in widths of 118, 135, 165 and 195 mm. The system includes the bracket screws and nails. It also includes continuity and ridge soakers and corner soakers to provide weather protection to fascia and barge board joints.

2.2 The fascia and barge boards are available with a profile, band sawn or classic surface finish. Pre-painted board is supplied in a range of colours.

2.3 The fascia bracket has a base tab which is configured to fit into a continuous trapezoidal shaped base groove at the bottom of the fascia board. Once the bracket is fitted to the rafter the base tab locks into the groove and the fascia is fixed from behind with stainless steel screws. The base tab groove is also used to accommodate the outer edge of the soffit lining. A tab at the top of the Bildon fascia bracket is bent over the top of the fascia board to allow the bracket to be nail fixed at the top. When using the 195 x 25 mm fascia board the top tab is used as an extra screw fixing to permit fixing to the back of the fascia board.

2.4 Once the fascia board is fixed in place, spouting may be fixed to it. Spouting has not been assessed and is outside the scope of this Certificate.

2.5 The gable bracket is designed to be screw fixed to the barge board and wrapped around and fixed to a flying rafter.

Components

2.6 Unless otherwise indicated components are supplied by Total Fascia Ltd.

2.7 The following components make up the system:

- Bildon 2000 fascia and barge boards manufactured from finger jointed 25 mm thick LOSP H3 treated Radiata pine timber.
- Stainless steel Grade 316 Bildon fascia and gable brackets.
- Galvanised steel Bildon fascia and gable brackets fabricated from 0.95 mm thick, Grade 250, Z275 galvanised coil.
- Stainless steel Grade 316 continuity joint, ridge joint and corner soakers (etch primed).
- Stainless steel Grade 316 - 3.0 x 20 mm screws for fixing Bildon fascia or gable brackets to fascia or gable boards.
- Stainless steel Grade 316 - 4.2 x 40 mm screws for fixing fascia boards together at corners and for fixing fascia and barge boards to back blocks at joints.
- Stainless steel Grade 316 - 2.8 x 30 mm clouts for side fixing Bildon fascia and gable brackets to roof framing.
- Stainless steel Grade 316 - 20 mm nails for fixing soakers in place over joints.
- Finishing Paint - (not supplied) Pre-primed fascia and barge boards must be finished with a minimum of two coats of latex exterior paint system complying with any of Parts 7, 8, 9 or 10 of AS 3730.

3. Handling and Storage

3.1 The fascia and barge boards, brackets and soakers should be handled with care to avoid damage. In particular the painted timber surface of the fascia board and the galvanised bracket coating are more susceptible to damage.

3.2 Fascia and barge boards are supplied in wrapped pairs and in the short term must be stored in their wrapper under cover clear of the ground. For long term storage (12 months or more) they should be stored unwrapped under cover clear of the ground and filleted to allow air circulation. Brackets, fixings and other accessories must be stored so that they are kept clean, dry and undamaged.

Design Information

4. General

The Bildon 2000 Solid Timber Fascia System includes fascia and barge boards for light timber framed buildings which have been designed in accordance with NZS 3604 or to a specific design which meets the scope for buildings defined in Clause 1.1.2 of NZS 3604.

5. Structure

Substructure

5.1 Timber roof framing, in particular common rafters, outriggers and flying rafters, eaves bearers and roof truss chord members, must either comply with NZS 3604, or be to a specific design in accordance with NZS 3603 and NZS 4203.

Fixing Support

5.2 For fascia boards, roof framing members such as truss chords, rafters and eaves bearers must provide support for the fascia at maximum 1200 mm centres.

5.3 Barge boards must be fixed to a common rafter or a flying rafter supported by outriggers. Gable brackets must support the barge boards at maximum 900 mm centres. Cantilevered purlins must also not exceed this spacing.

5.4 The fascia system is not for fixing directly to wall framing.

Wind Loads

5.5 The Bildon 2000 Solid Timber Fascia System is suitable for use in all NZS 3604 Building Wind Zones up to and including Very High.

6. Durability

6.1 The Bildon 2000 Solid Timber Fascia System will have a serviceable life of at least 15 years, provided it is maintained in a weathertight condition.

6.2 The durability is dependent on the fascia or barge board moisture content being maintained at or below 18% to ensure the long term durability of the melamine urea formaldehyde finger joints.

6.3 When the system is installed in corrosive environments, stainless steel fascia and gable brackets must be used. In all other areas the galvanised steel fascia and gable brackets may be used. The stainless steel screw and nail fixings are for use in all areas as are stainless steel joiner and corner soaker plates. Corrosive environments are the Sea Spray Zone of coastal areas, areas of localised corrosive geothermal activity and corrosive industrial environments. The Sea Spray Zone is within 500 m of the coast and within 100 m of tidal estuaries and other areas as defined in Clause 4.2.3 of NZS 3604. Advice regarding the location of corrosive geothermal activity and corrosive industrial environments may be obtained from the local territorial authority.

6.4 Factory pre-painted fascia and barge board will have a similar durability to fascia board protected by a good quality exterior house paint that is applied on site.

6.5 For durability, the pre-primed board must be further painted with a minimum two coat paint system applied within 4 weeks of installation.

7. Maintenance

7.1 Checks must be made of the coating system and the soakers at least annually. Any cracked or damaged coating areas must have loose material removed, the area repaired and the exterior surface recoated with a three coat paint system (see 6.5). The ability of soakers to provide a weathertight seal to joints should also be assessed at this point and maintenance carried out as necessary to reinstate joint protection. All work must be carried out in accordance with the relevant manufacturer's instructions.
7.2 It is recommended that the exterior face of the system is painted at 5 to 8 year intervals to maintain appearance. This will normally be carried out at the same time as maintenance including painting of the building's external envelope.

8. Outbreak of Fire

Bildon fascia and barge boards together with associated framing must be protected or separated from sources of heat in accordance with the requirements of NZBC Acceptable Solution C/AS1 Part 9 for the protection of combustible materials.

9. External Moisture

To be weathertight the soffit lining must be tightly fitted into the fascia or barge board groove and all fascia and barge board joints must be covered by soakers. Where this is not possible, e.g. where the fascia board abuts the barge board, joints must be sealed using an appropriately detailed silicone sealant joint.

Installation Information

10. General

10.1 The Bildon 2000 Solid Timber Fascia System must be installed in accordance with this Certificate and the Technical Information.
10.2 Prior to installation, roof and eaves framing must be checked for adequacy. The variation in plan from the framing line that the fascia or barge board is fixed to must not be more than 10mm from a 1.8m straight edge.

Fascia

10.3 Roof framing members are plumb cut 10 mm short of the rear face of the intended fascia board line to allow the fascia to be supported clear of the rafter ends by the fascia brackets.
10.4 The soffit level at corners of the building is determined and corner fascia brackets fixed in place by nailing to the sides of rafters.
10.5 A string line is erected to establish the line and level for remaining fascia brackets which are then fixed to the side of rafters.
10.6 Fascia boards are cut to length and a protective coat of primer applied to all ends.
10.7 Fascia boards are then fitted to the base tab of the fascia brackets at 45 degrees and rotated up into the final vertical position. The top bracket tab of several brackets is bent over onto the top of the fascia board and nailed to hold the board in place, or used to provide an additional screw fixing to the back of the 195 mm board.
10.8 All fascia brackets are then fixed to the back face of the fascia board with 20 mm screws. The 195 mm board is fixed using three screws per bracket. Other fascia boards are fixed with two screws per bracket.
10.9 H3 treated back blocks of minimum size 25 x 250 x 130 mm are positioned at the back of each joint and screwed into place with eight 40 mm stainless steel screws. The joiner/soaker plates are then fixed over the front face of the joints.

Barge Boards

10.10 Barge boards are fixed to hanging rafters by means of Bildon gable brackets.
10.11 Barge boards are first cut to length and the ends are protected with a coat of primer paint.
10.12 The brackets are then screw fixed to the rear face of the barge boards at maximum 900 mm centres.
10.13 The boards are lifted into position and the gable brackets are bent around the flying rafter and fixed with one nail into the top and one nail into the bottom of the flying rafter. Finally a single 20 mm Grade 316 stainless steel screw fixes both legs of the bracket into the rear face of the flying rafter.
10.14. Soakers are then fixed over the front of the barge board joints.
10.15 Pre-primed fascia or barge boards are finished with a good quality exterior house paint system.

Gable Bracket Connection

Basis of Appraisal

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

11. Tests

11.1 Finger joint glue bond tests have been carried out on fascia and barge boards by Orica Adhesives and Resins, New Zealand.
11.2 Tests to verify the strength of the fascia bracket connection were carried out by Total Fascia Ltd under the supervision of BRANZ.

12. Investigations

12.1 Total Fascia Ltd's Technical Information 'The Bildon 2000 Solid Timber Fascia System', dated June 2003 has been examined by BRANZ and found to be satisfactory.
12.2 Site visits were carried out to assess the practicability of installation.
12.3 A durability opinion on components of the system has been provided by BRANZ experts.
12.4 The history of performance of LOSP H3 treated radiata pine framing timber has been taken into account.

13. Quality

13.1 The manufacture of the galvanised and stainless steel fascia and gable brackets has been examined by BRANZ, including methods used for quality control, and details obtained of the quality and composition of the materials used. These are considered to be satisfactory.
13.2 The quality of painted fascia and barge boards and painted brackets and soakers has been assessed and found to be satisfactory.
13.3 Total Fascia Ltd are responsible for the quality of product supplied.
13.4 Quality on site is the responsibility of Total Fascia Ltd's registered installers.

14. References

- AS/NZS 1491: 1996 Finger jointed structural timber.
- AS 3566: 2002 Self-drilling screws for the building and construction industries.
- AS 3730.7, 8, 9 and 10: 1992 Guide to the properties of paints for buildings.
- New Zealand Building Code Handbook and Approved Documents, Building Industry Authority, 1992
- NZS 3603: 1993 Timber structures standard.
- NZS 3604: 1999 Timber framed buildings.
- NZS 4203: 1992 Code of practice for general structural design and design loadings for buildings.
- The Building Regulations, up to and including, January 2002 Amendment.

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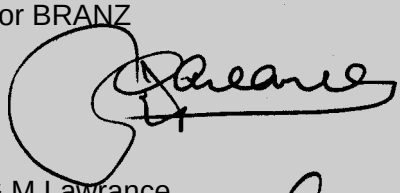
In the opinion of BRANZ, the Bildon 2000 Solid Timber Fascia System is fit for purpose and will comply with the Building Code to the extent specified in this Certificate provided it is used, installed and maintained as set out in this Certificate.

The Appraisal Certificate is issued only to the Certificate Holder, Total Fascia Ltd, and is valid until further notice, subject to the Conditions of Certification.

Conditions of Certification

1. This Certificate:
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 Certificate 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 Certificate Holder.
5. Any reference in this Certificate to any other publication shall be read as a reference to the version of the publication specified in this Certificate.

For BRANZ



G M Lawrance

M E Reed

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