



Building Product

QUALITY PLAN

Plantation Bamboo BPQP Ver 1.0



Table of Contents

- INTRODUCTION 3
- COMPANY DETAILS / RESPONSIBILITIES 3
- REFERENCE DOCUMENTS..... 4
- PRODUCT NAME 4
- SCOPE OF USE & LIMITATIONS..... 4
- APPLICABLE PERFORMANCE CLAUSES 4
- FLOW CHART & KEY RISKS 5
- CHECKS & TESTING 6
- HANDLING & STORAGE..... 6
- HANDLING OF COMPLAINTS 7
- LABEL / IDENTIFICATION REQUIREMENTS 7
- TRAINING REQUIREMENTS & RECORDS 8
- SITE CHECKS & RECORD KEEPING 8
- INTERNAL & EXTERNAL AUDIT REQUIREMENTS 8
- APPENDIX 1 - COPY OF THE ON-SITE CHECKLIST(S)..... 9
- APPENDIX 2 - TECHNICAL DATA SHEETS - for Raw Materials/Components and Assembled/ Finished product 11
- APPENDIX 3 - TRAINING PROGRAMME & TRAINING RECORDS ..**Error! Bookmark not defined.**
- APPENDIX 4 - SAFETY DATA & PPE REQUIREMENTS – if any 13
- APPENDIX 5 - COMPLAINTS REGISTER 15
- APPENDIX 6- REGISTER OF INTERNAL AUDIT FINDINGS..... 17
- APPENDIX 7- COPIES OF EXTERNAL AUDIT REPORTS 19

Version Change Table

New Version No	Reason for new version	Person responsible
Dr1.0	Draft of new quality plan for review by the client	B. McAulay
Ver1.0	Version 1 approved by the client	BM/CP

• INTRODUCTION

Managing risks and uncertainty is a responsibility of every commercial entity, particularly in today's environment. Use of this 'Building Product Quality Plan' conforming to the requirements of ISO/IEC 17021 is a recognised, reliable, and easy to implement means for managing risks and some of the uncertainty that building product importers, distributors and applicators face.

Our company has developed this quality plan to manage these issues and in doing so, provide reassurance to specifiers, designers, tradespeople, and the public at large, that our products are fit for their intended purpose.

• COMPANY DETAILS / RESPONSIBILITIES

Plantation NZ Limited (Plantation Bamboo) was formed in 2015 due to demand for an alternative supply of high-quality building materials, including bamboo decking and cladding- which would be competitively priced & that would be a suitable material for the NZ building market.

In 2022 we decided that our Bamboo X-treme Cladding needed to have an appraisal from a suitably experienced testing-house, and we asked the Building Element Assessment Laboratory (BEAL) to carry out an appraisal of our products.

The appraisal would demonstrate to councils, clients, and our distributors that the materials / products covered by the appraisal when installed according to our technical literature, would comply with the relevant clauses of the New Zealand Building Code.

The person responsible for the implementation and upkeep of this BPQP is –

Mr Steve Roughan

Our contact details are –

Head Office:

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Horowhenua

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Website www.plantationbamboo.co.nz

• REFERENCE DOCUMENTS

Reference documents include –

- Building Act 2004 and amendments
- Building Regulations & Building Code
- Compliance documents supplied by MBIE
- BEAL's Standard for a Building Product Quality Plan
- Plantation bamboo's' Technical Literature
- BEAL Appraisal document: BTS 2230

• PRODUCT NAME

The Bamboo X-treme Cladding System.

The system includes vertical and horizontal bamboo weatherboards, box corners, and fascia boards installed over cavity battens.

• SCOPE OF USE & LIMITATIONS

The Bamboo X-treme Cladding System is intended to be used as weatherboard wall cladding installed with the option of 10mm cavity battens and a frame protection system, installed over treated timber framing for residential and light commercial construction in wind zones up to and including 'extra high'. Timber framing shall be constructed as per NXS 3604.

The system is designed and should be used according to NZS 3617:1979 Specification of Profiles of Weatherboards, Fascia Boards, and Flooring.

The Technical Manual and Drawings are available from the Appraisal-holder.

Limitations

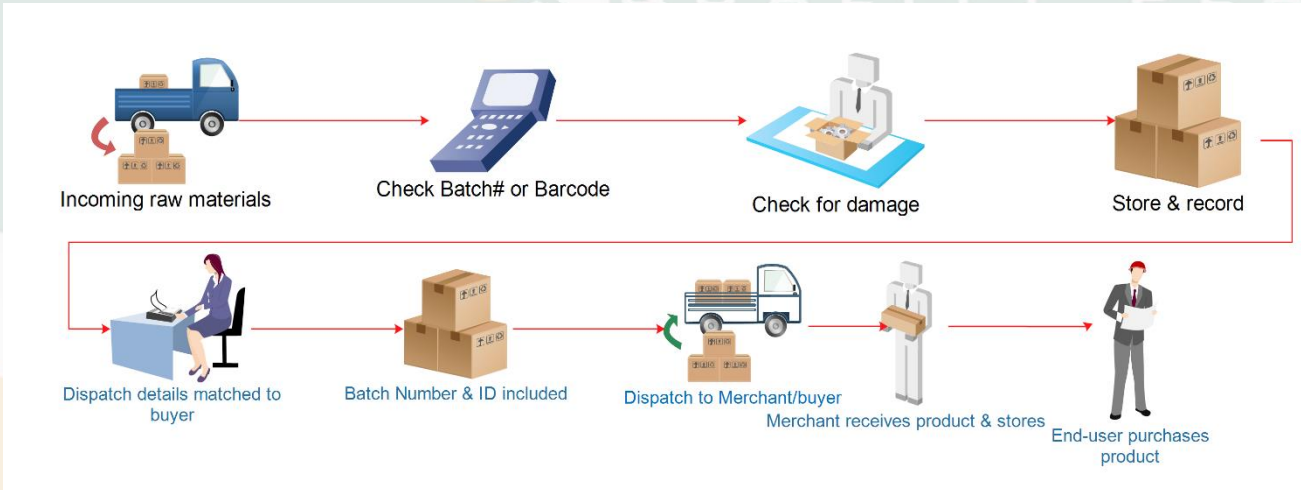
The Bamboo X-treme Cladding System is required to be designed and installed according to the details and drawings described in the Technical and Installation Manual and by experienced building contractors.

• APPLICABLE PERFORMANCE CLAUSES

The Bamboo X-treme Cladding System complies with the following clauses of the New Zealand Building Code:

- B1 – Structure.
- B2 – Durability.
- E2 – External Moisture.
- F2 – Hazardous Building Materials.

• FLOW CHART & KEY RISKS



Key Risks identified in the flow plan covering receipt of material or product, checking RFID, storage, recording, labelling, dispatch with batch Nos, storage on site, construction or application, include:

- Materials supplied to us not meeting the 'specification' (included with our order)
- Materials supplied to us not properly identified using RFID or Barcode or labelling
- Materials supplied to us damaged
- Product supplied by us to a client not properly identified or labelled
- Our Technical Manual - including the construction drawings - not up to date or not displaying the version number
- Our construction information – available from our web site - not up to date and displaying the version number
- A copy of this BPQP not readily available from the Cloud or in hard copy
- Our six-monthly Internal Audit of our BPQP not being carried out
- Not addressing any non-conformances arising from our external audit by BEAL, in a timely fashion.
- Not keeping the Complaints Register up-to-date or following up complaints.

• CHECKS & TESTING

As identified in the Flow Plan, the following Checks need to be carried out –

- on receipt of the weatherboards and other components, immediately check for damage
- on receipt of pallets of product, check correct material supplied, properly labelled or identified
- on supplying product to our merchant customers, ensure correct labelling including batch numbers
- on supplying product to our merchant customers, ensure adequate training and information about the correct construction information that can be obtained from our web-site, is properly understood.

Samples of the Bamboo X-treme weatherboards, are to be sent to BEAL for bi-annual testing of fixing performance.

Testing is an essential part of this BPQP. Samples of components deemed to have a high risk are tested periodically

The testing is to ensure the performance requirements claimed in our Appraisal document are maintained continuously. These tests are made against a written sampling and testing procedures.

These tests are carried out around the anniversary of the certificate.

Component	Risk	Method of Test
Clip screw fixing	Medium	Screw pull-out (of timber)

• HANDLING & STORAGE

All components are to be stored out of the weather, especially on site, up off the ground to prevent ground moisture or accidental damage affecting them.
 Owing to the production of cut dust when cutting bamboo sheet products, appropriate PPE including face masks, gloves and eye protection should be worn when handling the products.

• **HANDLING OF COMPLAINTS**

All complaints shall be recorded and filed together with details including who managed the complaint and what the resolution, if any, was – see Appendix 5.

• **LABEL / IDENTIFICATION REQUIREMENTS**

All products will be packaged and properly labelled to ensure only the correct materials are used.

• **Using QR Codes with Your Building Product Quality Plan**

Since the potential for misuse of your building product resulting in litigation is always present, minimising these risks is crucial to the survival of your business, or at the very least, impact on your Brand.

A very simple method for minimising risks, is ensuring those that use your product have the required literature and when on site, have the required construction 'checklists'. The required literature would include the technical manual and for those involved with installation or construction on-site, this would include the BPQP and site check-lists. Having a QR Code makes this real easy for everyone to be on the same page. Here's how it works:

1. BEAL provide every Appraisal Certificate-holder with a unique QR Code. This code points to a dedicated page on the BEAL web site. See above for an example.
2. The dedicated page describes the building product, its scope and limitations, and has several links that allow for documents to be easily downloaded - either onto their mobile phone, or onto a tablet or computer.
3. The documents are all in pdf format - that allow for these to be easily read, or, in the case of checklists, filled out and saved on your phone or tablet or computer.
4. The saved Checklists, together with required photos of the installation/construction, can then be sent or shared with the Appraisal Certificate-holder - thereby demonstrating that the installation or construction, is in accordance with the technical manual.
5. The Appraisal Certificate-holder can then provide the required warranty - in accordance with the Building Act 2004.

The most obvious advantage of using the BEAL QR Code risk management system, is not needing to have every user or builder/tradesperson, being trained by someone to use your product. Instead they can access the required technical information and then later, the site checklists from their phone or tablet when out of the office. Very simple, very convenient! At minimal cost to the certificate-holder preventing possible litigation, too.

• **PURCHASE REQUIREMENTS & RECORDS**

There is a person responsible for the implementation of this Building Product Quality Plan when ordering and purchasing products.

The correct implementation of this BPQP and correct record-keeping, is checked by us periodically, at least once a year, by way of an 'Internal audit'. A record of such Internal Audits is kept in the Register of Internal Audits – see Appendix 6.

• **SITE CHECKS & RECORD KEEPING**

The General Manager will ensure that a copy of this BPQP is available for download from the company web-site for reference, if needed.

• **INTERNAL & EXTERNAL AUDIT REQUIREMENTS**

At least once a year, we conduct an Internal audit of all aspects of this BPQP to ensure continuous conformance with its requirements. The result of these Audits will be recorded in the Register of Internal Audits – see Appendix 6.

Once a year an External audit will be carried out by a BEAL Auditor. The Audit will be carried out at the office and at one or more convenient located building sites. At the discretion of BEAL, and where practical, the Audit may be conducted remotely.

- **APPENDIX 1 - COPY OF THE ON-SITE CHECKLIST(S)**

COVER SHEET ONLY



- **APPENDIX 2 - TECHNICAL DATA SHEETS -
for Raw Materials/Components and Assembled/
Finished Product**

COVER SHEET ONLY



- **APPENDIX 3 - SAFETY DATA & PPE REQUIREMENTS – if any**

COVER SHEET ONLY



- **APPENDIX 4 - COMPLAINTS REGISTER**

COVER SHEET ONLY



- **APPENDIX 5 - REGISTER OF INTERNAL AUDIT FINDINGS**

COVER SHEET ONLY



- **APPENDIX 6- COPIES OF EXTERNAL AUDIT REPORTS**

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