

masterspec

‘Preparing for the next wave’

Rolf Huber
Construction Information, New Zealand



Economic activity:

Flat

Building consent levels:

Lowest in many years

Outlook:

Minimal grows projected for the next 12 months

Subscriber numbers:

Down 4% on peak (mid 2008)

Time to cut costs, lay-off staff and 'batten down the hatches'?

No way!

Time to invest and prepare for the next wave!



Two things are certain in these rather uncertain times:

- **BIM will change the way buildings are designed, approved, constructed and managed**
- **Related information systems will need to provide better and more convenient access to knowledge ➡**



What is less certain is how completely the industry will embrace BIM

Will collaboration via a common platform be achieved?

Will it be BIM + IFC, or BIM + BIM + BIM, etc, with each discipline operating inside its own silo?

We need to be ready to respond to both scenarios ➡



Google has set the standard for information systems:

- **Everyone must now meet the “2 clicks is too many” rule**
- **To compete you must match Google in speed and quality of result**





So where do we go from here?

Do we sit and wait for certainty?

No!

Do we take a guess at the future?

No!

We build on what we have already achieved ➡



However we must accept that some will move faster and further than others

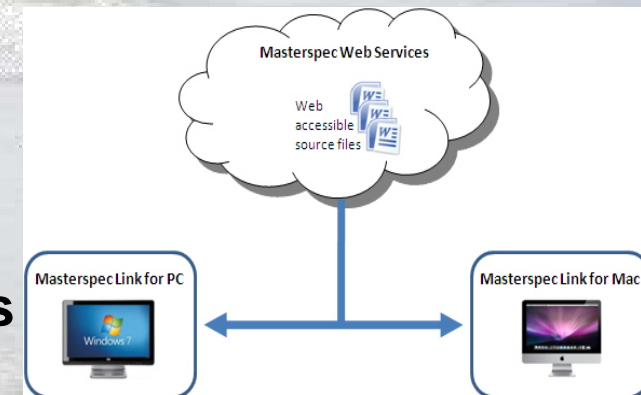
And some may never make the change to BIM

So we will need to support both ➡



Right now we are building on our strengths:

- With 95% of our subscribers operating online accessing our single repository on our online server through PC and Mac interfaces
- Dual markets of specifiers and product manufacturers
- And delivering online access to related data sources:
 - Construction standards
 - Product appraisals
 - Building Code “deemed to comply” documents



Document1 - Microsoft Word

Home Insert Page Layout References Mailings Review View Masterspec

Open/Close Masterspec Link Masterspec

Show/Hide Guidance Notes
Display Section Versions
About Masterspec Link

Renumber Clauses
Update Table of Contents
Page Numbering by Section

Custom Section
Delete Section

Repair Styles
Validate Sections
Full Repair

View Update Add / Delete Repair

Documents

1.2 DOCUMENTS REFERRED TO

Documents referred to in this section are:

NZBC E2/AS1	External moisture
NZBC E2/VM1	Weathertightness
AS/NZS 1170.2	Structural design actions - Wind actions
AS/NZS 2908.2	Cellulose-cement products - Flat sheet
NZS 3602	Timber and wood-based products for use in building
NZS 3604	Timber framed buildings

Documents listed above and cited in the clauses that follow are part of this specification. However, this specification takes precedence in the event of it being at variance with the cited document.

Delete from the DOCUMENTS clause any document not cited. List any additional cited documents.

RELATED DOCUMENTS:

Refer to the following related documents when preparing this section:

BRANZ BU 353	Ground clearances
BRANZ BU 393	Powder-actuated and mechanically powered fasteners
BRANZ BU 407	Walls on exposed sites
BRANZ BU 439	Condensation risk in walls
BRANZ BU 449	Keeping water out - Timber-framed walls
BRANZ BU 453	Fasteners selection
BRANZ BU 460	Internal moisture control
BRANZ BU 467	Principles of flashing design
BRANZ publication	Selecting wall claddings

1.3 MANUFACTURER'S DOCUMENTS

James Hardie documents relating to work in this section are:

Linea™ Weatherboard technical specification
James Hardie Weatherboards technical specification
Eaves and Soffit Linings installation manual
BRANZ Appraisal 446 - Linea™ Weatherboard
BRANZ Appraisal 447 - Linea™ Weatherboard - Cavity Construction

Copies of the above literature are available at
Web: www.jameshardie.co.nz
Telephone: Ask James Hardie™ on 0800 808 868

Masterspec Link

EDITING: Document1
4231HW JAMES HARDIE WEATHERBOARD CLADDING

Main Menu

masterspec

Masterspec April 2010 release
We are pleased to announce that the Masterspec April mid-term update has been released.

Choose from the Masterspec specification systems below to suit your design project:

	Masterspec Standard	contents
	Masterspec Engineering	contents
	Masterspec Services	contents
	Masterspec Basic	contents
	Masterspec Minor	contents

Industry Resources

	Standards Online Library Online access to your Standards portfolio
	BRANZ Appraisals Building solution appraisals
	DBH Building compliance documents

© CIL Masterspec 2010 APR 4231HW.JAMES HARDIE WEATHERBOARD CLADDING Page 2

SafariFileEditViewHistoryBookmarksWindowHelpDocument1.docx

NewOpenSavePrintUndoRedoFormatTablesColumnsShowNavigationGalleryToolboxZoomHelp

Heading 1Arial14B I U

Document ElementsQuick TablesChartsSmartArt GraphicsWordArt

21103468101214161718

JAMES HARDIE MINERALITE CLADDING FOR MINERAL SHEET AND RIGID SUBSTRATE

JAMES HARDIE RIGID AIR BARRIERS for James Hardie HomeRAB™ PreClad™ Lining and RAB™ Board for pre-cladding

Documents

1.2DOCUMENTS REFERRED TO

Documents referred to in this section are:

NZBC E2/AS1External moisture

NZBC E2/VM1Weathertightness

AS/NZS 1170.2Structural design actions - Wind actions

AS/NZS 2908.2Cellulose-cement products - Flat sheet

NZS 3602Timber and wood-based products for use in building

NZS 3604Timber framed buildings

Documents listed above and cited in the clauses that follow are part of this specification. However, this specification takes precedence in the event of it being at variance with the cited document.

Delete from the DOCUMENTS clause any document not cited. List any additional cited documents.

RELATED DOCUMENTS:

Refer to the following related documents when preparing this section:

BRANZ BU 353Ground clearances

BRANZ BU 393Powder-actuated and mechanically powered fasteners

BRANZ BU 407Walls on exposed sites

BRANZ BU 439Condensation risk in walls

BRANZ BU 449Keeping water out - Timber-framed walls

BRANZ BU 453Fasteners selection

BRANZ BU 460Internal moisture control

BRANZ BU 467Principles of flashing design

BRANZ publicationSelecting wall claddings

1.3MANUFACTURER'S DOCUMENTS

James Hardie documents relating to work in this section are:

Linea™ Weatherboard technical specification

James Hardie Weatherboards technical specification

Eaves and Soffit Linings installation manual

BRANZ Appraisal 446 - Linea™ Weatherboard

BRANZ Appraisal 447 - Linea™ Weatherboard - Cavity Construction

Copies of the above literature are available at

Web:www.jameshardie.co.nz

© CIL Masterspec 2010 Apr

4231HW JAMES HARDIE WEATHERBOARD CLADDING Page 2

Masterspec Link: Document1.docx

Main Menu

masterspec

Masterspec April 2010 release

We are pleased to announce that the Masterspec April mid-term update has been released.

Choose from the Masterspec specification systems below to suit your design project.

Masterspec Standard

contents

Masterspec Engineering

contents

Masterspec Services

contents

Masterspec Basic

contents

Masterspec Minor

contents

Industry Resources

Standards Online Library

Online access to your Standards portfolio

BRANZ Appraisals

Building solution appraisals

DBH

Building compliance documents

SafariFileEditViewHistoryBookmarksWindowHelpDocument1.docx

NewOpenSavePrintUndoRedoFormatTablesColumnsShowNavigationGalleryToolboxZoomHelp

Heading 1Aria14B I U

Document ElementsQuick TablesChartsSmartArt GraphicsWordArt

210346101214161718

123456789101112131415161718

1.2

~~JAMES HARDIE MINERALITE CLADDING FOR MINERAL SHEET AND RAINWATER SUBSTRATE.~~
~~JAMES HARDIE RIGID AIR BARRIERS for James Hardie HomeRAB™ PreClad™ Lining and RAB™ Board for pre-cladding~~

Documents

1.2 DOCUMENTS REFERRED TO

Documents referred to in this section are:

NZBC E2/AS1	External moisture
NZBC E2/VM1	Weathertightness
AS/NZS 1170.2	Structural design actions - Wind actions
AS/NZS 2908.2	Cellulose-cement products - Flat sheet
NZS 3602	Timber and wood-based products for use in building
NZS 3604	Timber framed buildings

Documents listed above and cited in the clauses that follow are part of this specification. How this specification takes precedence in the event of it being at variance with the cited document.

~~Delete from the DOCUMENTS clause any document not cited. List any additional cited documents.~~

RELATED DOCUMENTS:

~~Refer to the following related documents when preparing this section:~~

BRANZ BU 353	Ground clearances
BRANZ BU 393	Powder-actuated and mechanically powered fasteners
BRANZ BU 407	Walls on exposed sites
BRANZ BU 439	Condensation risk in walls
BRANZ BU 449	Keeping water out - Timber-framed walls
BRANZ BU 453	Fasteners selection
BRANZ BU 460	Internal moisture control
BRANZ BU 467	Principles of flashing design
BRANZ publication	Selecting wall claddings

1.3

MANUFACTURER'S DOCUMENTS

James Hardie documents relating to work in this section are:

Linea™ Weatherboard technical specification
James Hardie Weatherboards technical specification
Eaves and Soffit Linings installation manual
BRANZ Appraisal 446 - Linea™ Weatherboard
BRANZ Appraisal 447 - Linea™ Weatherboard - Cavity Construction

Copies of the above literature are available at
Web: www.jameshardie.co.nz

© CIL Masterspec 2010 Apr4231HW JAMES HARDIE WEATHERBOARD CLADDING Page 2

Masterspec Link: Document1.docx

Main Menu

masterspec

Masterspec April 2010 release
We are pleased to announce that the Masterspec April mid-term update has been released.

Choose from the Masterspec specification systems below to suit your design project.

Masterspec Standard

contents

Masterspec Engineering

contents

Masterspec Services

contents

Masterspec Basic

contents

Masterspec Minor

contents

Industry Resources

Standards Online Library
Online access to your Standards portfolio

BRANZ Appraisals
Building solution appraisals

DBH
Building compliance documents

Safari File Edit View History Bookmarks Help Document1.docx

New Open Save Print Undo Redo Format Tables Columns Show Navigation Gallery Toolbox Zoom Help

Heading 1 Arial 14 B I U

Document Elements Quick Tables Charts SmartArt Graphics WordArt

2 1 1 1 3 4 6 8 10 12 14 16 17 18

~~JAMES HARDIE MINERALITE CLADDING FOR MINERAL SHEET AND RIGID POLYURETHANE SUBSTRATE~~
~~JAMES HARDIE RIGID AIR BARRIERS for James Hardie HomeRAB™ PreClad™ Lining and RAB™ Board for pre-cladding~~

Documents

1.2 DOCUMENTS REFERRED TO

Documents referred to in this section are:

NZBC E2/AS1	External moisture
NZBC E2/VM1	Weathertightness
AS/NZS 1170.2	Structural design actions - Wind actions
AS/NZS 2908.2	Cellulose-cement products - Flat sheet
NZS 3602	Timber and wood-based products for use
NZS 3604	Timber framed buildings

Documents listed above and cited in the clauses that follow. However, this specification takes precedence in the event of a conflict with any cited document.

~~Delete from the DOCUMENTS clause any document not cited. List related documents below.~~

RELATED DOCUMENTS:

~~Refer to the following related documents when preparing this section:~~

BRANZ BU 353	Ground clearances
BRANZ BU 393	Powder-actuated and mechanically powered fasteners
BRANZ BU 407	Walls on exposed sites
BRANZ BU 439	Condensation risk in walls
BRANZ BU 449	Keeping water out - Timber-framed walls
BRANZ BU 453	Fasteners selection
BRANZ BU 460	Internal moisture control
BRANZ BU 467	Principles of flashing design
BRANZ publication	Selecting wall claddings

1.3 MANUFACTURER'S DOCUMENTS

James Hardie documents relating to work in this section are:

- Linea™ Weatherboard technical specification
- James Hardie Weatherboards technical specification
- Eaves and Soffit Linings installation manual
- BRANZ Appraisal 446 - Linea™ Weatherboard
- BRANZ Appraisal 447 - Linea™ Weatherboard - Cavity Cladding


Copies of the above literature are available at Web: www.jameshardie.co.nz

© CIL Masterspec 2010 Apr 4231HW JAMES HARDIE WEATHERBOARD CLADDING Page 2













Masterspec Link: Document1.docx

Main Menu

masterspec

 **Masterspec April 2010 release**
We are pleased to announce that the Masterspec April mid-term update has been released.

Choose from the Masterspec specification systems below to suit your design project.

-  **Masterspec Standard** 
-  **Masterspec Engineering** 
-  **Masterspec Standard** 
-  **Masterspec Engineering** 
-  **Masterspec Standard** 
-  **Masterspec Engineering** 

Dictionary.com Find the ...

<http://shop.standards.co.nz/docs/securedow...>

Cover 1 (1 of 479) 104% Find

Bookmarks

- Notice of disclaimer
- Contents
- Related Documents
- Foreword
- 1. SCOPE AND INTERPRETATION
- 2. GENERAL
- 3. SITE REQUIREMENTS
- 4. DURABILITY
- 5. BRACING DESIGN
- 6. FOUNDATION AND SUBFLOOR FRAMING
- 7. FLOORS
- 8. WALLS
 - 8.1 General
 - 8.2 Systems to resist vertical loads
 - 8.3 Systems to resist horizontal loads
 - 8.4 Wall framing - General requirements
 - 8.5 Studs
 - 8.6 Lintels and sill and head trimmers
 - 8.7 Plates
 - 8.8 Dwgings and wallings
 - Table
 - 8.1 - Ratings of 2.4 m high reinforced concrete or reinforced concrete masonry wall bracing elements
 - 8.2 - Studs in loadbearing walls
 - 8.3 - No. 2 Framing in internal non-loadbearing walls
 - 8.4 - Studs in

STANDARDS NEW ZEALAND
PĀHEWEA KOTEAROA

NZS 3604:1999
Incorporating Amendments 1 and 2

New Zealand Standard

Timber Framed Buildings

Superseding NZS 3604:1990 and NZMP 3600:Part 1:1992

Outline of floor plane

Unknown Zone | Protected Mode: On

SafariFileEditViewHistoryBookmarksWindowHelpDocument1.docx150%NewOpenSavePrintUndoRedoFormatTablesColumnsShowNavigationGalleryToolboxZoomHelpHeading 1Aral14B I U Document Elements Quick Tables Charts SmartArt Graphics WordArt

210346161718

JAMES HARDIE MINERALITE CLADDING FOR MINERAL SHEET AND RAINWATER SUBSTRATE.
JAMES HARDIE RIGID AIR BARRIERS for James Hardie HomeRAB™ PreClad™ Lining and RAB™ Board for pre-cladding

Documents

1.2DOCUMENTS REFERRED TODocuments referred to in this section are:
NZBC E2/AS1 External moisture
NZBC 5300 Weathertightness
AS/NZ 2201 Structural design actions - Wind actions
AS/NZ 2202 Cellulose-cement products - Flat sheet
NZS 3604 Timber and wood-based products for use in building
NZS 3604 Timber framed buildings

Documents listed above and cited in the clauses that follow are part of this specification. However, this specification takes precedence in the event of it being at variance with the cited document.
Delete from the DOCUMENTS clause any document not cited. List any additional cited documents.

RELATED DOCUMENTS:
Refer to the following related documents when preparing this section:
BRANZ BU 353 Ground clearances
BRANZ BU 393 Powder-actuated and mechanically powered fasteners
BRANZ BU 407 Walls on exposed sites
BRANZ BU 439 Condensation risk in walls
BRANZ BU 449 Keeping water out - Timber-framed walls
BRANZ BU 453 Fasteners selection
BRANZ BU 460 Internal moisture control
BRANZ BU 467 Principles of flashing design
BRANZ publication Selecting wall claddings

1.3MANUFACTURER'S DOCUMENTSJames Hardie documents relating to work in this section are:

Linea™ Weatherboard technical specification
James Hardie Weatherboards technical specification
Eaves and Soffit Linings installation manual
BRANZ Appraisal 446 - Linea™ Weatherboard
BRANZ Appraisal 447 - Linea™ Weatherboard - Cavity Construction

Copies of the above literature are available at
Web: www.jameshardie.co.nz

© CIL Masterspec 2010 Apr4231HW JAMES HARDIE WEATHERBOARD CLADDING Page 2

Masterspec Link: Document1.docxMain Menu

masterspec

Masterspec April 2010 releaseWe are pleased to announce that the Masterspec April mid-term update has been released.

Choose from the Masterspec specification systems below to suit your design project.

Masterspec Standardcontents

Masterspec Engineeringcontents

Masterspec Servicescontents

Masterspec Basiccontents

Masterspec Minorcontents

Industry Resources

Standards Online LibraryOnline access to your Standards portfolio

BRANZ AppraisalsBuilding solution appraisals

DBHBuilding compliance documents



We are now reviewing our editorial and data management practices:

- **Aiming to maintain smaller “bits” of data (smaller than the traditional work section)**
- **With intelligent linkages between the individual “bits”**
- **Enabling specifiers to create linkages to and from individual objects**
- **Or populate a specification document through linkages from an array of objects within a BIM ➡**



We are also improving our editorial practices:

- **Using database technology to simplify updating and checking**
- **Improving the file cleaning process by separating specification content from document style**
- **This will also help address the difficulty of finding dedicated specification editors** ➡



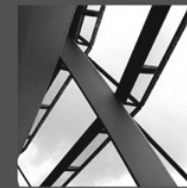
Finally we are developing better and more effective ways of linking data sources:

- **The ability to access a **CLAUSE** in a construction standard directly from a Word document**
- **Access and download a populated schedule of materials from our new product database**
- **The key is being able to achieve this in an easy, intuitive manner**
- **This is the real secret of success of our Link software:**
 - **Not just what it can do, but that it is easy and attractive to use**
 - **Our customers like using it and we want it to stay that way!**





Together, we can catch the next technology wave!



Together, we can catch the next technology wave!

