‘Preparing for the next wave’

Rolf Huber
Construction Information, New Zealand
Economic activity: Flat
Building consent levels: Lowest in many years
Outlook: Minimal growth 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
- Duel markets of specifiers and product manufacturers
- And delivering online access to related data sources:
  - Construction standards
  - Product appraisals
  - Building Code “deemed to comply” 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 buildings
- 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 393: Ground clearances
- BRANZ BU 393: Powder-actuated and mechanically powered fasteners
- BRANZ BU 410: Walls on exposed sites
- BRANZ BU 448: Condensation risk in walls
- BRANZ BU 448: Keeping water out - Timber-framed walls
- BRANZ BU 448: Fasteners selection
- BRANZ BU 489: Internal moisture control
- BRANZ BU 487: Principles of flashing design
- BRANZ publication: Selecting weather 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

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4221HN JAMES HARDIE WEATHERBOARD CLADDING Page 2
1.2 DOCUMENTS REFERRED TO
Documents referred to in this section are:
NZBC E2AS1 Weathertightness
NZBC E9VM1 Weatherlightness
AS/NZS 1170.2 Structural design actions - Wind actions
AS/NZS 2908.2 Cellulose-cement products - Flat sheet
NZS 3802 Timber and wood-based products for use in building
NZS 3804 Timber framed buildings

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RELATED DOCUMENTS:
Refer to the following related documents when preparing this section:
BRANZ BU 353 Ground clearances
BRANZ BU 354 Powder-activated 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 563 External wall claddings
BRANZ BU 580 Internal moisture control
BRANZ BU 597 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 Soft Linings installation manual
BRANZ Appraisal 446 - Linea™ Weatherboard
BRANZ Appraisal 447 - Linea™ Weatherboard - Cavity Construction

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Web: www.jameshardie.co.nz
1.2 DOCUMENTS REFERRED TO
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NZBC E2/AS1 External moisture
NZBC E9/V1 Weather tightness
AS/NZS 1170.2 Structural design actions - Wind actions
AS/NZS 2908.2 Cellulose-cement products - Flat sheet
NZS 3802 Timber and wood-based products for use in building
NZS 3804 Timber framed buildings

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RELATED DOCUMENTS:
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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 External selection
BRANZ BU 456 Internal moisture control
BRANZ BU 487 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
1.2 DOCUMENTS REFERRED TO
Documents referred to in this section are:

- NZBC E2/AS1 Weather tightness
- NZBC E9/V1 Weather tightness
- AS/NZS 1170.2 Structural design actions - Wind actions
- AS/NZS 2908.2 Cellulose-cement products - Flat sheet
- NZS 3802 Timber and wood-based products for use in buildings
- NZS 3804 Timber framed buildings

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

Delete from the DOCUMENTS clause any document not cited. Links.

RELATED DOCUMENTS:
Refer to the following related documents when preparing this section:
- BRANZ BU 353 Powder-actuated and mechanically powered
- 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 Water sealant selection
- BRANZ BU 456 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 Soft Linings installation manual
- BRANZ Appraisal 446 - Linea™ Weatherboard
- BRANZ Appraisal 447 - Linea™ Weatherboard - Cavity Closures

Copies of the above literature are available at Web: www.jameshardie.co.nz
1.2 DOCUMENTS REFERRED TO
Documents referred to in this section are:
- NZBC E2/AS1 Weather tightness
- NZBC AS4102 Weather tightness
- AS/NZ 1170 Structural design actions - Wind actions
- AS/NZ 2047 Cellulose-cement products - Flat sheet
- NZS 3700 Timber and wood-based products for use in building
- NZS 3604 Timber framed buildings

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- BRANZ BU 353 Ground clearances
- BRANZ BU 363 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 563 External insulation
- BRANZ BU 650 Internal moisture control
- BRANZ BU 907 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 Soft Linings installation manual
- BRANZ Appraisal 446 - Linea™ Weatherboard
- BRANZ Appraisal 447 - Linea™ Weatherboard - Cavity Construction

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Web: www.jameshardie.co.nz
1.2 DOCUMENTS REFERRED TO
Documents referred to in this section of the specification include:
- NZBC E2/AS1 Weathertightness
- NZBC E2/VM1 Weathertightness
- AS/ NZS 1170.2 Structural design actions
- AS/NZS 2908.2 Cellulose-cement adhesives
- NZS 3802 Timber and wood-based panels
- NZS 3804 Timber framed buildings

Documents listed above and cited in this section. However, this specification takes precedence.

1.3 MANUFACTURER’S DOCUMENTS
James Hardie documents relating to weatherboard cladding and acoustic performance:
- Linea Weatherboard technical specification
- James Hardie Weatherboards technical specification
- Eaves and Soft Linings installation manual

Copies of the above literature are available online at:
Web: www.jameshardie.com

Acceptable Solution E2/AS1

Effective date revised by amendment 1)

1.0 Scope
This Acceptable Solution addresses the weathertightness of the building envelope. Notes shown under “COMMENT” occurring throughout this document are for guidance purposes only and do not form part of this Acceptable Solution.

1.1 Construction included
The scope of this Acceptable Solution is limited to the materials, products and processes contained herein, for buildings within the scope of clause 1.1.2 of NZS 3604, and:
- Up to 3 storeys of timber framing, with a maximum height from ground to eaves of 10 m,
- With floor plan area limited only by seismic and structural control joints.

COMMENT:
Details contained in this Acceptable Solution can be used for unlined spaces, but the requirements may be in excess of the minimum required by the building code. It is particularly the case in regard to unlined and unframed buildings, where a change of cavity is unlikely to be necessary.

However, care must be taken, as some weatherproofing details depend on the presence of an internal lining to provide pressure equalization behind the cladding.
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!