October 2014

E2/AS1 compatibility tables

E2/AS1 has tables that indicate the compatibility of materials in contact with each other and where water runs from one material onto another. Table 21 on page 174 covers materials in contact, while Table 22 on page 175 relates to run-off.

The tables (using a cross for not permitted and a tick for permitted) show where contact or run-off is satisfactory or where it is not permitted and separation is required. The notes beneath the tables give explanations on specific materials.

External use of H3.1 treated pine

When using H3.1 treated timber externally (cladding, facings, fascias and the like), NZS 3602:2003 *Timber and wood-based products for use in building* clause 111.22 requires that, to meet durability requirements:

- the timber must be primed and painted with a minimum of two coats of acrylic or alkyd paint
- all cut ends, notches, holes and other exposed surfaces must be primed on all faces.

Manufacturers of these products have their own data sheets that outline the requirements for:

- the protection of the product during delivery to and storage on site – they must be kept dry before being installed
- the maximum time the primed timber can be exposed to the weather before repriming is required – where the exposure time is exceeded, the timber must be sanded and reprimed
- suitable coating systems.

Further guidance is contained in AS/NZS 2311:2009 *Guide to the painting of buildings* clause 3.2.8 and Table 5.2.

E3 *Internal moisture* and H1 *Energy efficiency* – minimum requirements for concrete structures

To comply with the requirements of New Zealand Building Code clause E3, E3/AS1 requires that external walls of habitable buildings constructed of solid concrete, precast concrete or solid filled concrete masonry are required to meet the minimum insulation value of R0.6. This is the absolute minimum R-value for walls of habitable buildings in the NZBC.

For H1 *Energy efficiency* compliance, H1/AS1 and H1/VM1 have tables that supersede the requirements of NZS 4218:2004 *Energy efficiency – Small building* envelope, which is the cited version of this standard. The tables in NZS 4218:2009 *Thermal insulation – Housing and small* buildings are the same as those in H1/AS1 and H1/VM1.

When showing compliance with H1, Table 2(b) of H1/AS1 gives the minimum R-values when using the schedule and calculation methods.

When using the schedule method, only the (b) options in the table (i.e. 1b, 2b or 3b) should be used – see note 9 of the table. When using the schedule method, no R-value less than those given in the table is permitted.

When using the calculation method, use the (a) options in the table to calculate the heat loss for the reference building. The calculation method allows reductions in the values in the (a) options of up to 40%, for the proposed building, but the R-values used for the walls must not be less than the R0.6 required by E3/AS1 for solid construction.

***Build* 143 article on sill support for windows with direct-fixed cladding**

The *Build* 143 article Sill support for windows showing a sill support bar to a direct-fixed cladding was intended to raise awareness that, although not required under E2/AS1, there are situations where a window section is far enough proud of the framing that some form of support of the window aligning with the setting blocks under the glazing, particularly when double glazed, is considered necessary.

As the cladding is direct-fixed, a sill tray flashing is a requirement of E2/AS1. Figures 2 and 3 include a frame support block located on top of the flashing to transfer the load of the window to the bracket located under the flashing and fixed to the sill trimmer. In Figure 4, the top edge of the cladding provides support to the flat sill tray and the frame support block located on it.

New from BRANZ – Construction Dashboard – the industry at a glance, today and tomorrow

The BRANZ Construction Dashboard is a new interactive web-based tool that will help the building and construction industry understand what is happening in the industry today and where it is heading by providing key indicators and forecast changes such as:

- skills availability
- financial viability of construction subsectors
- residential customer service
- workplace injury rates
- housing affordability
- building activity forecasts
- changes in building quality.

The BRANZ Construction Dashboard is a must-have tool for the professional builder, government agencies and training providers.

Bracing required in monopitch roofs

Clause 10.3.4 in NZS 3604:2011 *Timber-framed buildings* doesn't require diagonal strap bracing in the roof plane if the supporting braced wall frames extend up to the underside of the rafters and the rafters have a sheet ceiling attached directly to their underside. This would only apply where the frames are raked and all walls extend full height and the wall bracing extends to the top plate of all walls under the monopitch roof.

Where supporting frames have level (horizontal) top plates and monopitch trusses attached to form the monopitch roof, the roof requires bracing as if it were a pitched roof. The trusses will require lateral support at right angles to the length of the trusses at the high end, and the roof will also require roof plane bracing and/or roof space braces. The highest end shall be considered to be a ridge line for bracing purposes.

CPIT Resilience Opportunities Workshops

Enhancing resilience and staying resilient are the key challenges that organisations face in the 21st century. A resilient organisation can effectively adapt to the host of challenges that organisations are likely to face in the next 10 years.

How can you make your organisation or community more resilient? Attend a two-part interactive workshop organised by Resilient Organisations where you will engage with other practitioners to develop practical actions plans to enhance resilience in your organisation or community. In part 1, you will brainstorm with others to generate creative ideas for enhancing resilience and staying resilient. In part 2, you will develop action plans to implement the best ideas. The two parts are totally interactive, where you work collaboratively with others to build resilience.

In addition to this, learn about the latest research in the field of resilience and attend a panel discussion on "Why isn't resilience on the radar for most organisations and how can we change this?"

It's free! So please come along:

- Auckland: 1–7pm, Wednesday 29 October 2014
- Wellington: 1–7pm, Tuesday 4 November 2014

Numbers are limited to 120, so RSVP with your preferred location to charlotte.brown@cpit.ac.nz.

WorkSafe seminar: Want to run a safe and successful construction site?

It's 3 years into the Preventing Falls from Height project and WorkSafe NZ has a simple message for the building industry – it's working.

"This is the third year of the campaign, and we've now got the data to share with everyone," says WorkSafe. "The news is good, with serious harm notifications dropping 20–25% in the last 2 years."

To make sure that message gets out, WorkSafe NZ is running a 3-month roadshow visiting over 30 locations around the country from Kerikeri to Invercargill. The presentations are 2 hours long and include speakers from SiteSafe and BCITO, as well as WorkSafe.

The presentations will be providing a fact sheet and information on how to run a safe and successful construction site, based on the feedback they've been receiving over the last 3 years as well as reviewing how far we have come with the Preventing Falls from Height programme.

The seminars will offer essential health and safety top tips you should follow if you run a construction site, even if you don't directly employ the people working there. Safety guidance will be provided for:

- planning a safe approach
- your workers' health and wellbeing
- employing
- subcontracting
- managing resources at differing stages of the build
- tools and machinery
- protecting the public
- emergency management.

A review of Preventing Falls from Height:

- How far we have come
- What impact has this project had?
- WorkSafe figures
- Feedback from our industries and further guidance for safe work at height.

Remaining dates, locations and venues are:

4 November	Nelson	Club Waimea Richmond
5 November	Blenheim	Clubs of Marlborough
6 November	Christchurch	Hornby Working Men's Club
10 November	Christchurch	Woolston Club
12 November	Ashburton	Ashburton Club
13 November	Timaru	South Canterbury RSA
24 November	Dunedin	Edgar Centre
25 November	Invercargill	Club Southland
26 November	Queenstown	Goldbridge Resort
27 November	Wanaka	Albertown Tavern
1 December	Greymouth	Blaketown Rugby Club
2 December	Westport	Westport RSA

If you want to attend one of these WorkSafe NZ sessions that run from 5.30 to 7.30 pm, please register online here.

BRANZ seminar: *From She'll Be Right to Build It Right*

Legislative changes that affect how you work with your client and build safely.

BRANZ, in partnership with MBIE and WorkSafe, invite you to a seminar covering legislative changes that affect how you work with your client and build safely, running from mid-October to early December in 28 centres.

Building Amendment Act 2013 – Gain an insight into changes to the Act and how they impact you and the way you do business. If you are involved in costing and managing any type of residential building work, this seminar will help you get up to speed with the changes before they come into effect.

New consumer protection measures for residential building work come into effect from 1 January 2015 including:

- a requirement to have a written contract for building work over $30,000 (including GST)
- a requirement to give customers a building checklist as well as information about your credentials – skills, qualifications, licensing status and so on
- an automatic 12-month defect repair period when you will have to fix any defects the customer has told you about
- fines for not complying with the law.

Construction Contracts Amendment Bill – Be updated on progress with the Construction Contracts Amendment Bill, which now seeks to apply the progress payment, the adjudication framework and remedies for recovery of payment provisions to residential building as well as to all building industry professionals and materials supply.

Health and safety regime – Find out about the new health and safety regime and what the industry should be doing now to prepare for the changes. This includes the WorkSafe NZ philosophy and the 3 Es (educate, engage, enforce), the Preventing Falls from Height campaign and the Health and Safety Reform Bill.

This seminar will be a must for building contractors, builders and specialist trades and will impact on the work of architects, designers, engineers and building surveyors.

Remaining dates and venues are:

28 October	Tauranga	Trinity Wharf
29 October	Taupo	Millennium Hotel and Resort Manuels
30 October	Rotorua	Rydges Rotorua
3 November	Christchurch	Addington Events Centre
4 November	Greymouth	Kingsgate Hotel
5 November	Nelson	Rutherford Hotel
10 November	Invercargill	Ascot Park Hotel
11 November	Queenstown	Crowne Plaza
12 November	Dunedin	Forsyth Barr Stadium
18 November	Hamilton	Claudelands Conference and Exhibition Centre
19 November	Auckland – North Shore	QBE Stadium (North Harbour Stadium)
20 November	Auckland – Mt Wellington	Waipuna Hotel and Conference Centre
24 November	Blenheim	Scenic Hotel Marlborough
25 November	Wellington	Mac's Function Centre
26 November	Kapiti	Southward Car Museum
1 December	Kerikeri	Turner Centre
2 December	Whangarei	Forum North
3 December	Auckland Central	Rendezvous Hotel
8 December	Gisborne	Emerald Hotel
9 December	Napier	War Memorial Conference Centre
10 December	Masterton	Gateway Motor Inn
11 December	Upper Hutt	Silverstream Retreat

Book online here.