

Summary of Questions

B1 Structure

Question B1 – 1

What are your comments on the options?

Agree Agree with comment Disagree with reason/proposed change

Comment/reason/proposed change

We agree with the options subject to our answers to the following questions.

Question B1 – 2

Do you agree with the proposed changes to the definitions?

Agree Agree with comment Disagree with reason/proposed change

Comment/reason/proposed change

OK although depth at 2 x footing width is odd.

Question B1 – 3

Do you agree with the proposed changes to the references in B1 Structure?

Agree Agree with comment Disagree with reason/proposed change

Comment/reason/proposed change

[Click here to enter text.](#)

Question B1 – 4

Do you agree with the proposed changes to the Verification Method B1/VM1?

Agree Agree with comment Disagree with reason/proposed change

Comment/reason/proposed change

OK although Engineers need to comment.

Generally we do not like AS's or VM's changing clauses, figures or tables, in Standards.

Question B1 – 5

Do you agree with the proposed changes to Acceptable Solution B1/AS1?

Agree Agree with comment Disagree with reason/proposed change

Comment/reason/proposed change

Generally OK

B1/AS1, 2.1.1 - reinforcing mesh sheet for NZS 4229 is "1.14 kg/m² in each direction" whereas in 3.1.9 for NZS 3604 it is "1.15kg/m²".

B1/AS1, 2.1.2 - Not realistic to expect the average non-engineer building designer to know if a site outside of Canterbury has the potential for liquefaction.

Question B1 – 6

Do you agree with the proposed changes to Verification Method B1/VM4 Appendix C?

Agree Agree with comment Disagree with reason/proposed change

Comment/reason/proposed change

Engineers need to comment.

Question B1 – 7

Do you agree with the proposed transitional arrangements for B1 Acceptable Solutions and Verification Methods?

Agree Agree with comment Disagree with reason/proposed change

Comment/reason/proposed change:

We are concerned about the 3 month transitional period of December/January/February and would suggest the Ministry extends the period to at least the end of April 2014.

B2 Durability

Question B2 – 1

What are your comments on the options?

Agree Agree with comment Disagree with reason/proposed change

Comment/reason/proposed change

We agree with the options subject to our answers to the following questions.

Question B2 – 2

Do you agree with the proposed changes to the references in B2 Durability?

Agree Agree with comment Disagree with reason/proposed change

Comment/reason/proposed change

We have some reservations concerning the adoption of MCA treated timber for higher hazard classes. Scion referred us to US durability studies which showed some stakes failing in Florida but good unground durability elsewhere. We believe that there needs to be more thorough testing in New Zealand of this treatment including above ground damp situations as we have

NZ specific fungus types and conditions and we have seen fillers with several of the timber treatments adopted over the past few years that have been costly. The costs of repairing consequential damage where the timber treatment has not been as effective at preventing decay as expected is high and often unfairly carried by Contractors and Consultants. Recently tho has included H3.1 and H1.2 timber treatments that have failed within 10 years. Because of this the standards for accepting new timber treatments need to be substantially higher than they have been.

Question B2 – 3

Do you agree with the proposed changes to Acceptable Solution B2/AS1?

Agree Agree with comment Disagree with reason/proposed change

Comment/reason/proposed change

[Click here to enter text.](#)

Question B2 – 4

Do you agree with the proposed transitional arrangements for B2/AS1?

Agree Agree with comment Disagree with reason/proposed change

Comment/reason/proposed change:

We are concerned about the 3 month transitional period of December/January/February and would suggest the Ministry extends the period to at least the end of April 2014.

C Fire Safety

Question C – 1

What are your comments on the options?

Agree Agree with comment Disagree with reason/proposed change

Comment/reason/proposed change

The new AS's, although an improvement over the old document, are still complex and shrouded in Fire Engineering concepts. They should be simpler (less options unless engineered) and have plain English language/concepts.

The relationship between part C of the Code and the AS's is confusing as it is formatted differently to other parts of the Code and their AS's.

Question C – 2

Do you agree with the proposed changes to the references in C Fire Safety?

Agree Agree with comment Disagree with reason/proposed change

Comment/reason/proposed change

Changes to testing Standards affects manufacturers. Arranging testing and waiting in the queue takes some time in NZ. Some products are still being

tested from the introduction of C/AS1-C/AS7. Introduction time for changes to testing Standards needs careful consideration.

AS/NZS 60598.2.2 - the amendment is OK but AS clause 7.4.2 is not consistent with the Standard and makes no sense.

Question C – 3

Do you agree with the proposed changes to Acceptable Solutions C/AS1-6?

Agree Agree with comment Disagree with reason/proposed change

Comment/reason/proposed change

Generally OK except;

7.2.2 - AS/NZS 5601.1 also allows for mobile and portable appliances, the proposed clause 7.2.2 does not seem to? Also an Engineer would be needed to calculate restraints, which is ridiculous say for a residential stove. Why not use NZS 4219 instead as proposed for G10?

Question C – 4

Do you agree with the proposed transitional arrangements for Acceptable Solutions C/AS1-6?

Agree Agree with comment Disagree with reason/proposed change

Comment/reason/proposed change:

We are concerned about the 3 month transitional period of December/January/February and would suggest the Ministry extends the period to at least the end of April 2014.

D2 Mechanical Installations for Access

Question D2 – 1

What are your comments on the options?

Agree Agree with comment Disagree with reason/proposed change

Comment/reason/proposed change

We agree with the options subject to our answers to the following questions.

Question D2 – 2

Do you agree with the proposed changes to the references in D2 Mechanical Installations for Access?

Agree Agree with comment Disagree with reason/proposed change

Comment/reason/proposed change

[Click here to enter text.](#)

Question D2 – 3

Do you agree with the proposed changes to Acceptable Solutions D2/AS2?

Agree Agree with comment Disagree with reason/proposed change
Comment/reason/proposed change

[Click here to enter text.](#)

Question D2 – 4

Do you agree with the proposed changes to Acceptable Solution D2/AS3?

Agree Agree with comment Disagree with reason/proposed change
Comment/reason/proposed change

[We cannot comment as we have not seen EN115](#)

Question D2 – 5

Do you agree with the proposed transitional arrangements for D2/AS2 and D2/AS3?

Agree Agree with comment Disagree with reason/proposed change

Comment/reason/proposed change:

[We are concerned about the 3 month transitional period of December/January/February and would suggest the Ministry extends the period to at least the end of April 2014.](#)

E1 Surface Water

Question E1 – 1

What are your comments on the options?

Agree Agree with comment Disagree with reason/proposed change
Comment/reason/proposed change

[We agree with the options subject to our answers to the following questions.](#)

Question E1 – 2

Do you agree with the proposed changes to the references in E1 Surface Water?

Agree Agree with comment Disagree with reason/proposed change
Comment/reason/proposed change

[OK although; AS/NZS 2280 title is wrong, delete "pressure".](#)

Question E1 – 3

Do you agree with the proposed changes to Acceptable Solution E1/AS1?

Agree Agree with comment Disagree with reason/proposed change

Comment/reason/proposed change

[Click here to enter text.](#)

Question E1 – 4

Do you agree with the proposed transitional arrangements?

Agree Agree with comment Disagree with reason/proposed change

Comment/reason/proposed change:

We are concerned about the 3 month transitional period of December/January/February and would suggest the Ministry extends the period to at least the end of April 2014.

E2 External Moisture

Question E2 – 1

What are your comments on the options?

Agree Agree with comment Disagree with reason/proposed change

Comment/reason/proposed change

We would suggest that the Ministry review CCANZ CP 01 as to its appropriateness. The reference to EN 1504-2:2004 is a manufacturing standard and manufacturers should be consulted.

Question E2 – 2

Do you agree with the proposed changes to the references in E2 External Moisture?

Agree Agree with comment Disagree with reason/proposed change

Comment/reason/proposed change

OK except; some of the requirements are completely over the top for simple (residential type) buildings which this purports to cover.

Question E2 – 3

Do you agree with the proposed transitional arrangements?

Agree Agree with comment Disagree with reason/proposed change

Comment/reason/proposed change:

We are concerned about the 3 month transitional period of December/January/February and would suggest the Ministry extends the period to at least the end of April 2014.

E3 Internal Moisture

Question E3 – 1

What are your comments on the options?

Agree Agree with comment Disagree with reason/proposed change
Comment/reason/proposed change

We disagree with the options subject as outlined in the answers to the following questions.

Question E3 –2

Do you agree with the proposed changes to Acceptable Solution E3/AS1?

Agree Agree with comment Disagree with reason/proposed change
Comment/reason/proposed change

We do not accept that R 0.25 is adequate as a thermal break to steel roof purlins. This is only a slightly higher value than the minimum previously accepted as a thermal break (20mm wood fibre boards R 0.20) for light steel wall framing. The condensation and thermal bridging risks in roof assemblies are quite different from what occurs in walls. Firstly the weight of steel used for studs is typically half that used for purlins and so the cost effectiveness of thermal break material at conserving heat will be higher for purlins; secondly the insulation in roofs is commonly between the purlins and has a much higher R-value, therefore the loss in performance is relatively higher. For potential condensation, mineral fibre ceilings, and batt insulation allow humid air from inside the building to move freely into the roof cavity where it can condense on the purlins leading to early failure. While a more comprehensive approach to dealing with internal moisture needs to be adopted as the acceptable solution for roofs, increasing the R value for the thermal break to a value that will make the purlins much closer to the internal temperature will help. We suggest that a value of at least R0.5 is adopted in this revision round and that a more comprehensive revision including drawings of acceptable roof details is proposed as soon as practicable. We have been undertaking work with schools and could assist with this.

Question E3 –2

Do you agree with the proposed transitional arrangements?

Agree Agree with comment Disagree with reason/proposed change
Comment/reason/proposed change:

We are concerned about the 3 month transitional period of December/January/February and would suggest the Ministry extends the period to at least the end of April 2014.

F6 Visibility in Escape Routes

Question F6 – 1

What are your comments on the options?

Agree Agree with comment Disagree with reason/proposed change
Comment/reason/proposed change

[Click here to enter text.](#)

Question F6 – 2

Do you agree with the proposed changes to the references in F6 Visibility in Escape Routes?

Agree Agree with comment Disagree with reason/proposed change
Comment/reason/proposed change

[Click here to enter text.](#)

Question F6 – 3

Do you agree with the proposed introductory period?

Agree Agree with comment Disagree with reason/proposed change
Comment/reason/proposed change:

We are concerned about the 3 month transitional period of December/January/February and would suggest the Ministry extends the period to at least the end of April 2014.

F8 Signs

Question F8 – 1

What are your comments on the options?

Agree Agree with comment Disagree with reason/proposed change
Comment/reason/proposed change

[We agree with the options subject to our answers to the following questions.](#)

Question F8 – 2

Do you agree with the proposed changes to the references F8 Signs?

Agree Agree with comment Disagree with reason/proposed change
Comment/reason/proposed change

[OK although why not include Ammendment 2 for AS 2293.3?](#)

Question F8 – 3

Do you agree with the proposed transitional arrangements?

Agree Agree with comment Disagree with reason/proposed change
Comment/reason/proposed change:

We are concerned about the 3 month transitional period of December/January/February and would suggest the Ministry extends the period to at least the end of April 2014.

G4 Ventilation

Question G4 – 1

What are your comments on the options?

Agree Agree with comment Disagree with reason/proposed change
Comment/reason/proposed change

We agree with the options subject to our answers to the following questions.

Question G4 – 2

Do you agree with the proposed changes to the references in G4 Ventilation?

Agree Agree with comment Disagree with reason/proposed change
Comment/reason/proposed change

[Click here to enter text.](#)

Question G4 – 3

Do you agree with the proposed changes to Acceptable Solution G4/AS1?

Agree Agree with comment Disagree with reason/proposed change
Comment/reason/proposed change

OK although;

G4/AS1, 3.0.1 needs to be amended to suit AS/NZS 5601.1, to make sense.

Question G4 – 4

Do you agree with the proposed introductory period?

Agree Agree with comment Disagree with reason/proposed change
Comment/reason/proposed change:

We are concerned about the 3 month transitional period of December/January/February and would suggest the Ministry extends the period to at least the end of April 2014.

G7 Natural Light

Question G7 – 1

What are your comments on the options?

Agree Agree with comment Disagree with reason/proposed change
Comment/reason/proposed change

We agree with the options subject to our answers to the following questions.

Question G7 – 2

Do you agree with the proposed changes to the references in G7 Natural Light?

Agree Agree with comment Disagree with reason/proposed change

Comment/reason/proposed change

We are confused;

Why not use the new Standards AS/NZS 1680.1, 2.4 and 2.5 which have replaced NZS 6703?

Question G7 – 3

Do you agree with the proposed transitional arrangements?

Agree Agree with comment Disagree with reason/proposed change

Comment/reason/proposed change:

We are concerned about the 3 month transitional period of December/January/February and would suggest the Ministry extends the period to at least the end of April 2014.

G8 Artificial Light

Question G8 – 1

What are your comments on the options?

Agree Agree with comment Disagree with reason/proposed change

Comment/reason/proposed change

We disagree with the options as outlined in our answers to the following questions.

Question G8 – 2

Do you agree with the proposed changes to the references in G8 Artificial Light?

Agree Agree with comment Disagree with reason/proposed change

Comment/reason/proposed change

While we have not reviewed overseas standards in detail, we believe that NZS 6703: 1984 is too simplistic and does not address recent research. The types of tasks being undertaken, the age range of the users of a space and different lighting strategies to put light where it is needed rather than uniformly distributed need to be considered. User performance can be improved, strain reduced and energy use optimized by a better approach. We have recently evaluated several buildings that meet NZS 6703 but which fail to provide adequate lighting for the tasks being undertaken. How does NZS 6703

compare with AS/NZS 1680.1? Why have we not adopted this? Again we could assist with this.

Question G8 – 3

Do you agree with the proposed transitional arrangements?

Agree Agree with comment Disagree with reason/proposed change

Comment/reason/proposed change:

We are concerned about the 3 month transitional period of December/January/February and would suggest the Ministry extends the period to at least the end of April 2014.

G9 Electricity

Question G9 – 1

What are your comments on the options?

Agree Agree with comment Disagree with reason/proposed change

Comment/reason/proposed change

[Click here to enter text.](#)

Question G9 – 2

Do you agree with the proposed changes to the references in G9 Electricity?

Agree Agree with comment Disagree with reason/proposed change

Comment/reason/proposed change

[Click here to enter text.](#)

Question G9 – 3

Do you agree with the proposed transitional arrangements?

Agree Agree with comment Disagree with reason/proposed change

Comment/reason/proposed change:

We are concerned about the 3 month transitional period of December/January/February and would suggest the Ministry extends the period to at least the end of April 2014.

G10 Piped Services

Question G10 – 1

What are your comments on the options?

Agree Agree with comment Disagree with reason/proposed change

Comment/reason/proposed change

We disagree with the options subject as outlined in our answers to the following questions.

Question G10 – 2

Do you agree with the proposed changes to the references in G10 Piped Services?

Agree Agree with comment Disagree with reason/proposed change
Comment/reason/proposed change

[Click here to enter text.](#)

Question G10 – 3

Do you agree with the proposed changes to Verification Method G10/VM1?

Agree Agree with comment Disagree with reason/proposed change
Comment/reason/proposed change

This clause has been updated to include reference to NZS4219:2009 Seismic Performance of engineering systems in buildings. This document seems a bit light on practical solutions to many of the seismic performance requirements. The American FEMA documents: FEMA-74 and FEMA-454 Chapter 9 have good practicable solutions and specific advice on non-structural seismic design problems and are freely available. While many of these solutions have already being widely used in New Zealand there are many that are not, particularly with services installations. If these could be included within our Acceptable Solutions (and more than just these two) then we could perhaps achieve better seismic performance for these items.

Question G10 – 4

Do you agree with the proposed changes to Acceptable Solution G10/AS1?

Agree Agree with comment Disagree with reason/proposed change
Comment/reason/proposed change

[See G10-3 above.](#)

Question G10 – 5

Do you agree with the proposed transitional arrangements?

Agree Agree with comment Disagree with reason/proposed change
Comment/reason/proposed change:

We are concerned about the 3 month transitional period of December/January/February and would suggest the Ministry extends the period to at least the end of April 2014.

G11 Gas as an Energy Source

Question G11 – 1

What are your comments on the options?

Agree Agree with comment Disagree with reason/proposed change

Comment/reason/proposed change

[Click here to enter text.](#)

Question G11 – 2

Do you agree with the proposed changes to the references in G11 Gas as an energy source?

Agree Agree with comment Disagree with reason/proposed change

Comment/reason/proposed change

[Click here to enter text.](#)

Question G11 – 3

Do you agree with the proposed changes to Acceptable Solution G11/AS1?

Agree Agree with comment Disagree with reason/proposed change

Comment/reason/proposed change

[Click here to enter text.](#)

Question G11 – 4

Do you agree with the proposed transitional arrangements?

Agree Agree with comment Disagree with reason/proposed change

Comment/reason/proposed change:

We are concerned about the 3 month transitional period of December/January/February and would suggest the Ministry extends the period to at least the end of April 2014.

G12 Water Supplies

Question G12 – 1

What are your comments on the options?

Agree Agree with comment Disagree with reason/proposed change

Comment/reason/proposed change

[Click here to enter text.](#)

Question G12 – 2

Do you agree with the proposed changes to the references in G12 Water Supplies?

Agree Agree with comment Disagree with reason/proposed change
Comment/reason/proposed change

We encourage the Ministry to consider the potential corrosion risk associated with solar water heating systems and roofing.

Question G12 – 3

Do you agree with the proposed changes to Acceptable Solution G12/AS1?

Agree Agree with comment Disagree with reason/proposed change
Comment/reason/proposed change

[Click here to enter text.](#)

Question G12 – 4

Do you agree with the proposed changes to Acceptable Solution G12/AS2?

Agree Agree with comment Disagree with reason/proposed change
Comment/reason/proposed change

[See G12-2 above.](#)

Question G12 – 5

Do you agree with the proposed transitional arrangements?

Agree Agree with comment Disagree with reason/proposed change
Comment/reason/proposed change

We are concerned about the 3 month transitional period of December/January/February and would suggest the Ministry extends the period to at least the end of April 2014.

G13 Foul Water

Question G13 – 1

What are your comments on the options?

Agree Agree with comment Disagree with reason/proposed change
Comment/reason/proposed change

[We agree with the options subject to our answers to the following questions.](#)

Question G13 – 2

Do you agree with the proposed changes to the references in G13 Foul Water?

Agree Agree with comment Disagree with reason/proposed change
Comment/reason/proposed change

OK although;

AS/NZS 2280 name wrong (see previous)

NZS 3604 name wrong (- missing?)

Some repeated Standards already commented on previously.

Question G13 – 3

Do you agree with the proposed changes to Acceptable Solution G13/AS2?

Agree Agree with comment Disagree with reason/proposed change
Comment/reason/proposed change

Question G13 – 4

Do you agree with the proposed changes to Acceptable Solution G13/AS3?

Agree Agree with comment Disagree with reason/proposed change
Comment/reason/proposed change

[Click here to enter text.](#)

Question G13 – 5

Do you agree with the proposed changes to Acceptable Solution G13/VM4?

Agree Agree with comment Disagree with reason/proposed change
Comment/reason/proposed change

[Click here to enter text.](#)

Question G13 – 6

Do you agree with the proposed transitional arrangements?

Agree Agree with comment Disagree with reason/proposed change
Comment/reason/proposed change:

We are concerned about the 3 month transitional period of December/January/February and would suggest the Ministry extends the period to at least the end of April 2014.

G14 Industrial Liquid Waste

Question G14 – 1

What are your comments on the options?

Agree Agree with comment Disagree with reason/proposed change

Comment/reason/proposed change

We disagree with the options subject as outlined in our answers to the following questions.

Question G14 – 2

Do you agree with the proposed changes to the references in G14 Industrial Liquid Waste?

Agree Agree with comment Disagree with reason/proposed change

Comment/reason/proposed change

This clause has been updated to include reference to NZS4219:2009 Seismic Performance of engineering systems in buildings. This document seems a bit light on practical solutions to many of the seismic performance requirements. The American FEMA documents: FEMA-74 and FEMA-454 Chapter 9 have good practicable solutions and specific advice on non-structural seismic design problems and are freely available. While many of these solutions have already been widely used in New Zealand there are many that are not, particularly with services installations. If these could be included within our Acceptable Solutions (and more than just these two) then we could perhaps achieve better seismic performance for these items.

Question G14 – 3

Do you agree with the proposed transitional arrangements?

Agree Agree with comment Disagree with reason/proposed change

Comment/reason/proposed change:

We are concerned about the 3 month transitional period of December/January/February and would suggest the Ministry extends the period to at least the end of April 2014.