BUILDING PERFORMANCE

Feedback form: Building Product Specifications Consultation June 2025

The Ministry of Business, Innovation and Employment (MBIE) would like your feedback on the draft first edition of the Building Product Specifications, which can be viewed here:

https://www.mbie.govt.nz/dmsdocument/30752-building-product-specifications-pdf

Information about the Building Product Specifications and how it will be used is available here:

https://www.mbie.govt.nz/dmsdocument/30754-discussion-document-for-building-product-specifications-pdf

How to provide feedback

Please provide your feedback by **5pm, Monday 23 June 2025.**

You can provide feedback via Survey Monkey (https://www.research.net/r/building-product-specifications-2025) or by following the instructions on the next page to complete this feedback form and send it to us.

What we are seeking feedback on

Feedback is sought on the following aspects of the draft Building Product Specifications – you may respond to as many (or as few) sections as you wish:

Section 2.1	Concrete
Section 2.2	Reinforcement for concrete
Section 2.4	Steel
Section 2.5	Timber (incl. wall bracing)
Section 2.6	Siteworks
Section 3.2	Wall cladding
Section 3.4	Windows, external doors and glazing
Section 3.5	Insulation
Section 6.2	Heating, ventilation and air conditioning (HVAC) systems
Section 7.1	Properties of materials (fire)
Section 7.2	Fire resistance
Section 7.3	Closures including fire doors, smoke control doors, glazing, and dampers
Section 7.4	Fire properties of external wall cladding
Section 7.5	Fire spread on linings, coverings, and other materials

We are seeking **three key pieces of feedback** for each section:

1. Do you agree with each of the standards or reference documents proposed to be cited in the Building Product Specifications?
2. If not, for each citation you disagree with, why do you believe they are not suitable?
3. Do you have suggestions for standards or other references to be cited in future versions of the Building Product Specifications?

We also welcome suggestions for standards or other references in relation to other product types not covered above.

We appreciate your time and effort taken to respond to this consultation.

Instructions

To make a submission using this form you will need to:

1. Fill out your name, email address, phone number and organisation. If you are representing an organisation, please provide a brief description of your organisation and its aims, and ensure you have the authority to represent its views.
2. Fill out your responses to the feedback questions. You can answer any or all of these questions. Where possible, please provide us with evidence to support your views. Examples can include references to independent research or facts and figures.
3. If your submission has any confidential information:
    i. Please state this in the email accompanying your submission, and set out clearly which parts you consider should be withheld and the grounds under the Official Information Act 1982 (Official Information Act) that you believe apply. MBIE will take such declarations into account and will consult with submitters when responding to requests under the Official Information Act.
    ii. Indicate this on the front of your submission (e.g. the first page header may state "In Confidence"). Any confidential information should be clearly marked within the text of your submission (preferably as Microsoft Word comments).
    iii. Note that submissions are subject to the Official Information Act and may, therefore, be released in part or full. The Privacy Act 2020 also applies.
4. Submit your feedback:
    i. As a Microsoft Word document by email to **building@mbie.govt.nz** with the subject line: *Consultation – Building Product Specifications*
    ii. By mailing your submission to:

    Consultation – Building Product Specifications
    Attn: Dave Gittings
    Ministry of Business, Innovation and Employment
    PO Box 1473, Wellington 6140
    New Zealand

Submitter information

MBIE would appreciate if you would provide some information about yourself. If you choose to provide information in the section below, it will be used to help MBIE understand how different sectors view the proposals and options for requiring and achieving minimum onshore fuel stockholding. Any information you provide will be stored securely.

Your name, email address, phone number and organisation

Name:	Julien Leys
Email address:	julien@bifnz.co.nz
Phone number:	021655598
Organisation:	Building Industry Federation of NZ

☐ The Privacy Act 2020 applies to submissions. Please tick the box if you do **not** wish your name or other personal information to be included in any information about submissions that MBIE may publish.

☐ MBIE may upload submissions and potentially a summary of submissions to its website, **www.mbie.govt.nz**. If you do **not** want your submission or a summary of your submission to be placed on either of these websites, please tick the box and type an explanation below:

I do not want my submission placed on MBIE's website because… [insert reasoning here]

Please check if your submission contains confidential information

☐ I would like my submission (or identifiable parts of my submission) to be kept confidential, and **have stated** my reasons and ground under section 9 of the Official Information Act that I believe apply, for consideration by MBIE.

Section 2.1 Concrete (please go to the next section if you do not have feedback on this)

1. Do you support the citation of the following references in the Building Product Specifications (section 2.1.1 Concrete testing)?

NZS 3112.2:1986 Methods of test for concrete – Part 2: Tests relating to the determination of strength of concrete	☒ Yes	☐ No
AS 1012.1:2014 Methods of testing concrete – Method 1: Sampling of concrete	☒ Yes	☐ No
AS 1012.9:2014 Methods of testing concrete – Method 9: Compressive strength tests – Concrete, mortar and grout specimen	☒ Yes	☐ No
AS 1012.8.1:2014 Methods of testing concrete – Method for making and curing concrete - Compression and indirect tensile test specimens	☒ Yes	☐ No
AS 1012.14:2014 Methods of testing concrete – Method 14: Method for securing and testing cores from hardened concrete for compressive strength and mass per unit volume	☒ Yes	☐ No

2. If you **do not** agree with the citation of any of the above references, please explain the reason for your choice:

3. Are there other standards or reference documents that should be cited in this section of the Building Product Specifications? If so, please tell us what they are and why you think they should be incorporated:

Standard/reference document(s):	AS 5146:2018 Reinforced Autoclaved Aerated Concrete Also, there possibly are some good Standards that should be considered however, insufficient time has been provided in this consultation to determine which Standards might apply.

Why should these be incorporated: Please include detail on what product(s), acceptable solutions and verification methods these relate to, and how they are equivalent to or better than current standards.	Reinforced Autoclaved Aerated Concrete (AAC) is often used in situations where insulation from heat or fire is required.

Section 2.2 Reinforcement for concrete (please go to the next section if you do not have feedback on this)

4. Do you support the citation of the following references in the Building Product Specifications?

AS/NZS 4671:2019 Steel for the reinforcement of concrete	☒ Yes	☐ No
ASTM A706/A706M-24 Standard specification for deformed and plain low alloy steel bars for concrete reinforcement	☐ Yes	☒ No

5. If you **do not** agree with the citation of any of the above references, please explain the reason for your choice:

We are unable to agree with referencing these Standards due to insufficient time being provided in this consultation period to complete a meaningful assessment of the proposed Standards. As these Standards are produced by recognized standards setting bodies and the short description suggests they might be appropriate for referencing, while we are unable to agree in this consultation round this should not be taken as a complete disagreement.

6. Are there other product standards that should be cited in this section of the Building Product Specifications? If so, please tell us what they are and why you think they should be incorporated:

Standard/reference document(s):	AS 5146:2018 Reinforced Autoclaved Aerated Concrete Also, there possibly are some good Standards that should be considered however, insufficient time has been provided in this consultation to determine which Standards might apply.
Why should these be incorporated: Please include detail on what product(s), acceptable solutions and verification methods these relate to,	Reinforced Autoclaved Aerated Concrete (AAC) is often used in situations where insulation from heat or fire is required.

and how they are equivalent to or better than current standards.	

Section 2.4 Steel (please go to the next section if you do not have feedback on this)

7. Do you support the citation of the following references in the Building Product Specifications?

AS 1397:2011 Continuous hot-dip metallic coated steel sheet and strip – Coatings of zinc and zinc alloyed with aluminium and magnesium Amendment 1	☐ Yes	☒ No
AS 1397:2021 Continuous hot-dip metallic coated steel sheet and strip – Coatings of zinc and zinc alloyed with aluminium and magnesium	☒ Yes	☐ No
ISO 4998:2023 Steel sheet, zinc-coated and zinc-iron alloy-coated by the continuous hot-dip process, of structural quality	☐ Yes	☒ No
ISO 9364:2017 Steel sheet, 55 % aluminium-zinc alloy-coated by the continuous hot-dip process, of commercial, drawing and structural qualities	☒ Yes	☐ No
ISO 3575:2016 Continuous hot-dip zinc-coated and zinc-iron alloy-coated carbon steel sheet of commercial and drawing qualities	☐ Yes	☒ No
ISO 3575:2025 Continuous hot-dip zinc-coated and zinc-iron alloy-coated carbon steel sheet of commercial and drawing qualities	☒ Yes	☐ No
AS/NZS 4680:2006 Hot-dipped galvanized (zinc) coatings on fabricated ferrous articles (R2017)	☒ Yes	☐ No
ISO 1461:2022 Hot dip galvanized coatings on fabricated iron and steel articles – Specifications and test methods	☐ Yes	☒ No
AS/NZS 1163:2016 Cold-formed structural steel hollow sections	☒ Yes	☐ No
BS EN 10219-1:2006 Cold formed welded structural hollow sections of non-alloy and fine grain steels, Technical delivery requirements	☒ Yes	☐ No

BS EN 10219-2:2019 Cold formed welded structural hollow sections, Tolerances, dimensions and sectional properties	☒ Yes	☐ No
BS EN 10219-3:2020 Cold formed welded steel structural hollow sections, Technical delivery conditions for high strength and weather resistant steels	☒ Yes	☐ No
AS/NZS 1594:2002 Hot-rolled steel flat products (R2016)	☒ Yes	☐ No
AS/NZS 3678:1996 Structural steel – Hot-rolled plates, floorplates and slabs	☐ Yes	☒ No
AS/NZS 3678:2016 Structural steel - Hot-rolled plates, floorplates and slabs, incorporating Amendment 1	☒ Yes	☐ No
AS/NZS 3679.1:1996 Structural steel – Part 1: Hot-rolled bars and sections	☐ Yes	☒ No
AS/NZS 3679.1:2016 Structural steel – Part 1: Hot-rolled bars and sections	☒ Yes	☐ No
AS/NZS 3679.2:1996 Structural steel – Part 2: Welded I sections	☐ Yes	☒ No
AS/NZS 3679.2:2016 Structural steel – Part 2: Welded I sections	☒ Yes	☐ No
BS EN 14399-3:2015 High-strength structural bolting assemblies for preloading – Part 3: System HR. Hexagon bolt and nut assemblies	☒ Yes	☐ No
BS EN 14399-5:2015 High-strength structural bolting assemblies for preloading – Part 5: Plain washers	☒ Yes	☐ No

8. If you **do not** agree with the citation of any of the above references, please explain the reason for your choice:

AS 1397:2011 is already superseded by the 2021 version. Similarly, ISO 3575:2016, AS/NZS 1594:2002, AS/NZS 3678:1996, AS/NZS 3679-1:1996 and AS/NZS 3679-2:1996 have also been superseded. It does not make sense to reference Standards that are out of date even if they are currently cited in Acceptable Solutions. The Building Product Specification is presumably able to be used as a mechanism to update references to superseded Standards. In that case, the opportunity should be taken to do such.

Otherwise, we are unable to agree with referencing these Standards due to insufficient time being provided in this consultation period to complete a meaningful assessment of the proposed Standards. As these Standards are produced by recognized standards setting bodies and the short description suggests they might be appropriate for referencing, while we are unable to agree in this consultation round this should not be taken as a complete disagreement.

9. Are there other standards or reference documents that should be cited in this section of the Building Product Specifications? If so, please tell us what they are and why you think they should be incorporated:

Standard/reference document(s):	There possibly are some good Standards that should be considered however, insufficient time has been provided in this consultation to determine which Standards might apply
Why should these be incorporated: Please include detail on what product(s), acceptable solutions and verification methods these relate to, and how they are equivalent to or better than current standards.	

Section 2.5 Timber (including wall bracing elements) (please go to the next section if you do not have feedback on this)

10. Do you support the citation of the following references for in the Building Product Specifications?

NZS 3602:2003 Timber and wood-based products for use in building, Part 1 (modified)	☒ Yes	☐ No
NZS 3640:2003 Chemical preservation of round and sawn timber Amendments 1,2,3,4,5	☒ Yes	☐ No
AS/NZS 1604.3:2002 Specification for preservative treatment – Part 3: Plywood	☐ Yes	☒ No
AS/NZS 1604.4:2002 Specification for preservative treatment – Part 4: Laminated veneer lumber (LVL)	☐ Yes	☒ No
AS/NZS 1604.5:2002 Specification for preservative treatment – Part 5: Glued laminated timber products	☐ Yes	☒ No
ISO 21887:2007(E) Durability of wood and wood-based products – Use Classes	☐ Yes	☒ No
AS/NZS 1604.1:2021 Preservative-treated wood-based products – Part 1: Products and treatment	☐ Yes	☒ No
AWPA U1-24 American Wood Protection Association, Use Category System: User Specification for Treated Wood	☐ Yes	☒ No
BS EN 335:2013 Durability of wood and wood-based products - Use classes: definitions, application to solid wood and wood-based products	☐ Yes	☒ No
NZS 3605:2001 Timber piles and poles for use in building	☒ Yes	☐ No
AS 3818.3:2010 Timber – Heavy Structural Products – Visually graded – Part 3: Piles	☐ Yes	☒ No
AS 3818.10:2010 Timber – Heavy Structural Products – Visually graded – Part 10: Building Poles	☐ Yes	☒ No
BRANZ Technical Paper P21 (2010) BRANZ, A wall bracing test and evaluation procedure	☒ Yes	☐ No
BRANZ Study Report SR 305 (2013) BRANZ, Bracing ratings for non-proprietary bracing walls	☐ Yes	☒ No

11. Do you agree with the specification and standards cited for **gypsum plasterboard used as wall bracing** at section 2.5.4.3?

The specification to determine the bracing rating set out in **subsections 2.5.4.3 a) to e) of the draft Building Product Specifications**	☒ Yes	☐ No
AS/NZS 2588:2018 Gypsum plasterboard (requirements for standard grade)	☐ Yes	☒ No
ASTM C1936/C1396M-24 Standard Specification for Gypsum Board (requirements for gypsum wallboard)	☐ Yes	☒ No
BS EN 520:2004+A1:2009 Gypsum plasterboards. Definitions, requirements and test methods (requirements for gypsum plasterboard Type A)	☐ Yes	☒ No

12. If you **do not** agree with the citation of any of the above references or the specification for gypsum plasterboard used as wall bracing, please explain the reason for your choice:

AS/NZS 1604.3:2002 is already superseded by the 2012 version. Similarly, AS/NZS 1604.4:2002 and AS/NZS 1604.5:2002 have also been superseded. It does not make sense to reference Standards that are out of date even if they are currently cited in Acceptable Solutions. The Building Product Specification is presumably able to be used as a mechanism to update references to superseded Standards. In that case, the opportunity should be taken to do such.

Regarding AS/NZS 2588:2018, there is no mechanism provided within this Standard to support testing that would confirm in-plane strength with equivalency to values provided in BRANZ Technical Paper P21 such that the Standard could then be relied upon for determining bracing ratings.

Otherwise, we are unable to agree with referencing these Standards due to insufficient time being provided in this consultation period to complete a meaningful assessment of the proposed Standards. As these Standards are produced by recognized standards setting bodies and the short description suggests they might be appropriate for referencing, while we are unable to agree in this consultation round this should not be taken as a complete disagreement.

13. Are there other standards or reference documents that should be cited in this section of the Building Product Specifications? If so, please tell us what they are and why you think they should be incorporated:

Standard/reference document(s):	AS/NZS 1604.3:2012, AS/NZS 1604.4:2012 and AS/NZS 1604.5:2012 Also, there possibly are some good Standards that should be considered however, insufficient time has been provided in this consultation to determine which Standards might apply.

Why should these be incorporated: Please include detail on what product(s), acceptable solutions and verification methods these relate to, and how they are equivalent to or better than current standards.	These standards relate to treatment of plywood and laminated veneer lumber (LVL) to meet the requirements of B2/AS1 (note that these are the relative version dates corresponding to the current version of B2/AS1). It is important that the 2012 version of these standards is referenced as they both include commonly applied treatment solutions that are not covered in the 2002 version. For H3 treated plywood, AS/NZS 1604.3:2002, the LOSP treatment option for Propiconazole and tebuconazole is not cited whilst AS/NZS 1604.4:2002 has no reference to H1.2 glueline and surface spray treatment. Both these treatments are common for engineered wood products. Further, the 2002 version of AS/NZS 1604 Series do not contain the Clause 1.9, Use in New Zealand, which provides requirements around New Zealand specific hazard classes H1.2, H3.1 and H3.2. The references to AS/NZS 1604:2002 Series should be updated to reference AS/NZS 1604:2012 Series.

Section 2.6 Siteworks (please go to the next section if you do not have feedback on this)

14. Do you support the citation of the following references in the Building Product Specifications (section 2.6.1 Engineered fill)?

DIN 18134:2012-04 German Institute for Standardization, Soil - Testing procedures and testing equipment – Plate load test	☐ Yes	☒ No
ASTM D5874-24 Standard Test Methods for Determination of the Impact Value (IV) of a Soil	☐ Yes	☒ No
PD CEN/TS 17006:2016 European Committee for Standardization, Earthworks. Continuous Compaction Control (CCC)	☐ Yes	☒ No
AASHTO T 224:2010 American Association of State Highway and Transportation Officials, Standard Method of Test for Correction for Coarse Particles in the Soil Compaction Test	☐ Yes	☒ No
AS 1289.5.4.3:2006 Methods of testing soils for engineering purposes – Method 5.4.3: Soil compaction and density tests – Compaction control test – Dry density ratio and moisture ratio using statistical selection of reference values (R2016)	☐ Yes	☒ No
ASTM D4718/D4718M-15 (2023) Standard Practice for Correction of Unit Weight and Water Content for Soil Containing Oversize Particles	☐ Yes	☒ No

15. If you **do not** agree with the citation of any of the above references, please explain the reason for your choice:

We are unable to agree with referencing these Standards due to insufficient time being provided in this consultation period to complete a meaningful assessment of the proposed Standards. As these Standards are produced by recognized standards setting bodies and the short description suggests they might be appropriate for referencing, while we are unable to agree in this consultation round this should not be taken as a complete disagreement.

16. Are there other product standards that should be cited in this section of the Building Product Specifications? If so, please tell us what they are and why you think they should be incorporated:

Standard/reference document(s):	NZS 4431:2022 Also, there possibly are some good Standards that should be considered however, insufficient time has been provided in this consultation to determine which Standards might apply.
Why should these be incorporated: Please include detail on what product(s), acceptable solutions and verification methods these relate to, and how they are equivalent to or better than current standards.	This Standard is the current version of the Standard that is already cited in NZS 3604:2011.

Section 3.2 Wall cladding (please go to the next section if you do not have feedback on this)

17. Do you support the citation of the following references in the Building Product Specifications?

AS/NZS 2908.2:2000 Cellulose-cement products – Flat sheets	☒ Yes	☐ No
ISO 8336:2017 Fibre-cement flat sheets — Product specification and test methods	☒ Yes	☐ No
BS EN 12467:2012+A2:2018 Fibre-cement flat sheets. Product specification and test methods	☒ Yes	☐ No
ISO 17738-1:2021(E) Thermal insulation products — Exterior insulation finish systems Part 1: Materials	☒ Yes	☐ No
ASTM E2098M-25 Standard Test Method for Determining Tensile Breaking Strength of Glass Fiber Reinforcing Mesh for Use in Exterior Insulation and Finish Systems (EIFS) and EIFS with Drainage Systems, after Exposure to a Sodium Hydroxide Solution	☒ Yes	☐ No
ASTM E2098M-13 Standard Test Method for Determining Tensile Breaking Strength of Glass Fiber Reinforcing Mesh for Use in Exterior Insulation and Finish Systems (EIFS), after Exposure to a Sodium Hydroxide Solution	☒ Yes	☐ No
ASTM E2098-00 Standard Test Method for Determining Tensile Breaking Strength of Glass Fibre Reinforcing Mesh for Use in Class PB Exterior Insulation and Finish Systems (EIFS), after Exposure to a Sodium Hydroxide Solution	☒ Yes	☐ No
ASTM E2134-01 Standard Test Method for Evaluating the Tensile-Adhesion Performance of an Exterior Insulation and Finish System (EIFS)	☒ Yes	☐ No
ASTM E2134M-14 Standard Test Method for Evaluating the Tensile-Adhesion Performance of an Exterior Insulation and Finish System (EIFS)	☒ Yes	☐ No

18. If you **do not** agree with the citation of any of the above references, please explain the reason for your choice:

19. Are there other standards or reference documents that should be cited in this section of the Building Product Specifications? If so, please tell us what they are and why you think they should be incorporated:

Standard/reference document(s):	There possibly are some good Standards that should be considered however, insufficient time has been provided in this consultation to determine which Standards might apply.
Why should these be incorporated: Please include detail on what product(s), acceptable solutions and verification methods these relate to, and how they are equivalent to or better than current standards.	

Section 3.4 Windows, external doors and glazing (please go to the next section if you do not have feedback on this)

20. Do you support the citation of the following references in the Building Product Specifications?

NZS 4211:2008 Specification for the performance of windows Amendment 1	☒ Yes	☐ No
SNZ TS 4211:2022 Specification for the classification of windows	☒ Yes	☐ No
Sections 1, 2.1.1, 2.3, 2.4, 2.5, 2.6, and 8 of AS 2047:2014 Windows and external glazed doors in buildings Amendments 1 and 2	☒ Yes	☐ No
NZS 4223.1:2008 Glazing in buildings – Part 1: Glass selection and glazing Amendment 1	☒ Yes	☐ No
AS 1288:2021 Glass in buildings – Selection and installation	☒ Yes	☐ No
NZS 4223.2:2016 Glazing in buildings – Part 2: Insulating glass units	☒ Yes	☐ No
AS/NZS 4666:2012 Insulating glass units	☒ Yes	☐ No
NZS 4223.3:2016 Glazing in buildings – Part 3: Human impact safety requirements (modified)	☒ Yes	☐ No

21. If you **do not** agree with the citation of any of the above references, please explain the reason for your choice:

22. Are there other standards or reference documents that should be cited in this section of the Building Product Specifications? If so, please tell us what they are and why you think they should be incorporated:

Standard/reference document(s):	There possibly are some good Standards that should be considered however, insufficient time has been provided in this consultation to determine which Standards might apply.
Why should these be incorporated: Please include detail on what product(s), acceptable solutions and verification methods these relate to, and how they are equivalent to or better than current standards.	

Section 3.5 Insulation (please go to the next section if you do not have feedback on this)

23. Do you support the citation of the following references in the Building Product Specifications?

AS/NZS 4859.1:2018 Thermal insulation materials for buildings – Part 1: General criteria and technical provisions, incorporating Amendment 1	☒ Yes	☐ No
ASTM C687-24 Standard Practice for Determination of Thermal Resistance of Loose-fill Building Insulation	☒ Yes	☐ No
ASTM C1667-15 Standard Test Method for Using Heat Flow Meter Apparatus to Measure the Center-of-Panel Thermal Transmission Properties of Vacuum Insulation Panels (R2023)	☒ Yes	☐ No
ASTM C177-19e1 Standard Test Method for Steady-State Heat Flux Measurements and Thermal Transmission Properties by Means of the Guarded-Hot-Plate Apparatus	☒ Yes	☐ No
ASTM C518-21 Standard Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus	☒ Yes	☐ No
ASTM C1363-24 Standard Test Method for Thermal Performance of Building Materials and Envelope Assemblies by Means of a Hot Box Apparatus	☒ Yes	☐ No
ISO 8301:1991 Thermal insulation – Determination of steady-state thermal resistance and related properties – Heat flow meter apparatus	☒ Yes	☐ No
ISO 8302:1991 Thermal insulation – Determination of steady-state thermal resistance and related properties – Guarded hot plate apparatus	☒ Yes	☐ No
ISO 8990:1994 Thermal insulation – Determination of steady-state thermal transmission properties – Calibrated and guarded hot box	☒ Yes	☐ No
BS EN 12667:2001 Thermal performance of building materials and products. Determination of thermal resistance by means of guarded hot plate and heat flow meter methods. Products of high and medium thermal resistance	☒ Yes	☐ No
BS EN 12939:2001 Thermal performance of building materials and products. Determination of thermal resistance by means of guarded hot plate and heat flow meter methods. Thick products of high and medium thermal resistance	☒ Yes	☐ No

24. If you **do not** agree with the citation of any of the above references, please explain the reason for your choice:

25. Are there other standards or reference documents that should be cited in this section of the Building Product Specifications? If so, please tell us what they are and why you think they should be incorporated:

Standard/reference document(s):	There possibly are some good Standards that should be considered however, insufficient time has been provided in this consultation to determine which Standards might apply.
Why should these be incorporated: Please include detail on what product(s), acceptable solutions and verification methods these relate to, and how they are equivalent to or better than current standards.	

Section 6.2 Heating, ventilation and air conditioning (HVAC) systems (please go to the next section if you do not have feedback on this)

26. Do you support the citation of the following references in the Building Product Specifications?

European Union Commission Regulation No 622/2012	☒ Yes	☐ No
BS EN 16297-1:2012 Pumps. Rotodynamic pumps. Glandless circulators. – Part 1 General requirements and procedures for testing and calculation of energy efficiency index (EEI)	☒ Yes	☐ No
BS EN 16297-2:2012 Pumps. Rotodynamic pumps. Glandless circulators. – Part 2 Calculation of energy efficiency index (EEI) for standalone circulators	☒ Yes	☐ No
BS EN 16297-3:2012 Pumps. Rotodynamic pumps. Glandless circulators. – Part 3 Energy efficiency index (EEI) for circulators integrated in products	☒ Yes	☐ No
AS/NZS 3666.1:2011 Air-handling and water systems of buildings - Microbial control – Part 1: Design, installation and commissioning	☒ Yes	☐ No
AS/NZS 3666.2:2011 Air-handling and water systems of buildings - Microbial control – Part 2: Operation and maintenance	☒ Yes	☐ No
BS EN 13053:2019 Ventilation for buildings. Air handling units. Rating and performance for units, components and sections	☒ Yes	☐ No

27. If you **do not** agree with the citation of any of the above references, please explain the reason for your choice:

28. Are there other standards or reference documents that should be cited in this section of the Building Product Specifications? If so, please tell us what they are and why you think they should be incorporated:

Standard/reference document(s):	There possibly are some good Standards that should be considered however, insufficient time has been provided in this consultation to determine which Standards might apply.
Why should these be incorporated: Please include detail on what product(s), acceptable solutions and verification methods these relate to, and how they are equivalent to or better than current standards.	

Section 7.1 Properties of materials (fire) (please go to the next section if you do not have feedback on this)

29. Do you support the citation of the following references in the Building Product Specifications?

NZS/AS 1530.1:1994 Methods for fire tests on building materials and structures – Part 1: Combustibility test for materials	☒ Yes	☐ No
AS 1530.1:1994 Methods for fire tests on building materials, components and structures – Part 1: Combustibility test for materials (R2016)	☒ Yes	☐ No
BS EN 13501-1:2018 Fire classification of construction products and building elements – Part 1: Classification using test data from reaction to fire tests	☒ Yes	☐ No
ISO 1182:2020 Reaction to fire tests for products – Non-combustibility test	☒ Yes	☐ No
BS EN ISO 1182:2020 Reaction to fire tests for products – Non-combustibility test	☒ Yes	☐ No
ISO 1182:2010 Reaction to fire tests for products – Non-combustibility test	☒ Yes	☐ No
ISO 9239-1:2010 Reaction to fire tests for flooring – Part 1: Determination of the burning behaviour using a radiant heat source	☒ Yes	☐ No
AS 1530.2:1993 Methods for fire tests on building materials and structures – Part 2: Test for flammability of materials (R2016)	☒ Yes	☐ No

30. If you **do not** agree with the citation of any of the above references, please explain the reason for your choice:

31. Are there other standards or reference documents that should be cited in this section of the Building Product Specifications? If so, please tell us what they are and why you think they should be incorporated:

Standard/reference document(s):	There possibly are some good Standards that should be considered however, insufficient time has been provided in this consultation to determine which Standards might apply.
Why should these be incorporated: Please include detail on what product(s), acceptable solutions and verification methods these relate to, and how they are equivalent to or better than current standards.	

Section 7.2 Fire resistance (please go to the next section if you do not have feedback on this)

32. Do you support the citation of the following references in the Building Product Specifications?

AS 1530.4:2014 Methods for fire tests on building materials, components and structures – Part 4: Fire-resistance tests of elements of construction	☒ Yes	☐ No
AS 1530.4:2005 Methods for fire tests on building materials, components and structures – Part 4: Fire-resistance tests of elements of construction	☒ Yes	☐ No
NZS/BS 476.21:1987 Fire tests on building materials and structures – Part 21: Methods for determination of the fire resistance of loadbearing elements of construction	☒ Yes	☐ No
NZS/BS 476.22:1987 Fire tests on building materials and structures – Part 22: Methods for determination of the fire resistance of non-loadbearing elements of construction	☒ Yes	☐ No
AS 4072.1:2005 Components for the protection of openings in fire- resistant separating elements – Part 1: Service penetrations and control joints Amendment 1 (R2016)	☒ Yes	☐ No
BS EN 12101-1:2005+A1:2006 Smoke and heat control systems – Part 1: Specification for smoke barriers	☒ Yes	☐ No

33. If you **do not** agree with the citation of any of the above references, please explain the reason for your choice:

34. Are there other standards or reference documents that should be cited in this section of the Building Product Specifications? If so, please tell us what they are and why you think they should be incorporated:

Standard/reference document(s):	There possibly are some good Standards that should be considered however, insufficient time has been provided in this consultation to determine which Standards might apply.
Why should these be incorporated: Please include detail on what product(s), acceptable solutions and verification methods these relate to, and how they are equivalent to or better than current standards.	

Section 7.3 Closures including fire doors, smoke control doors, glazing, and dampers

(please go to the next section if you do not have feedback on this)

35. Do you support the citation of the following references in the Building Product Specifications?

NZS 4520:2010 Fire-resistant doorsets	☒ Yes	☐ No
NZS 4232.2:1988 Performance criteria for fire resisting enclosures – Part 2: Fire resisting glazing systems	☒ Yes	☐ No
AS 1682.1:2015 Fire, smoke and air dampers – Part 1: Specification	☒ Yes	☐ No
AS 1682.2:2015 Fire, smoke and air dampers – Part 2: Installation	☒ Yes	☐ No
AS 1682.1:1990 Fire dampers – Part 1: Specification	☒ Yes	☐ No
AS 1682.2:1990 Fire dampers – Part 2: Installation	☒ Yes	☐ No

36. If you **do not** agree with the citation of any of the above references, please explain the reason for your choice:

37. Are there other standards or reference documents that should be cited in this section of the Building Product Specifications? If so, please tell us what they are and why you think they should be incorporated:

Standard/reference document(s):	There possibly are some good Standards that should be considered however, insufficient time has been provided in this consultation to determine which Standards might apply.
Why should these be incorporated: Please include detail on what product(s), acceptable solutions and verification methods these relate to, and how they are equivalent to or better than current standards.	

Section 7.4 Fire properties of external wall cladding (please go to the next section if you do not have feedback on this)

38. Do you support the citation of the following references in the Building Product Specifications?

ISO 5660-1:2015 Reaction to fire tests – Heat release, smoke production and mass loss rate – Part 1: Heat release rate (cone calorimeter method) and smoke production rate (dynamic measurement)	☒ Yes	☐ No
ISO 5660-2:2002 Reaction-to-fire tests – Heat release, smoke production and mass loss rate – Part 2: Smoke production rate (dynamic measurement)	☒ Yes	☐ No
AS/NZS 3837:1998 Method of test for heat and smoke release rates for materials and properties using an oxygen consumption calorimeter, Amendment 1 (R2016)	☒ Yes	☐ No
ASTM D2898:2010 Standard practice for accelerated weathering of fire retardant-treated wood (R2017)	☒ Yes	☐ No
AS 5113:2016 Classification of external walls of buildings based on reaction-to-fire performance Amendment 1	☒ Yes	☐ No
BS 8414-1:2015+A1:2017 Fire performance of external cladding systems – Part 1: Test method for non-loadbearing external cladding systems applied to the masonry face of a building	☒ Yes	☐ No
BS 8414-2:2015+A1:2017 Fire performance of external cladding systems – Part 2: Test method for non-loadbearing external cladding systems fixed to and supported by a structural steel frame	☒ Yes	☐ No
NFPA 285:2019 National Fire Protection Association, Standard Fire Test Method for Evaluation of Fire Propagation Characteristics of Exterior Wall Assemblies Containing Combustible Components	☒ Yes	☐ No
BR 135 (2013) BRE, Fire performance of external thermal insulation for walls of multistorey buildings: Third edition	☒ Yes	☐ No

39. If you **do not** agree with the citation of any of the above references, please explain the reason for your choice:

40. Are there other standards or reference documents that should be cited in this section of the Building Product Specifications? If so, please tell us what they are and why you think they should be incorporated:

Standard/reference document(s):	There possibly are some good Standards that should be considered however, insufficient time has been provided in this consultation to determine which Standards might apply.
Why should these be incorporated: Please include detail on what product(s), acceptable solutions and verification methods these relate to, and how they are equivalent to or better than current standards.	

Section 7.5 Fire spread on linings, coverings, and other materials (please go to the next section if you do not have feedback on this)

41. Do you support the citation of the following references in the Building Product Specifications?

BS EN 13501-1:2018 Fire classification of construction products and building elements – Part 1: Classification using test data from reaction to fire tests	☒ Yes	☐ No
AS 5637.1:2015 Determination of fire hazard properties – Part 1: Wall and ceiling linings	☒ Yes	☐ No
ISO 9705-1:2016 Reaction to fire tests – Room corner test for wall and ceiling lining products Part 1: Test method for a small room configuration (R2021)	☒ Yes	☐ No
ISO 9705:1993 Fire tests – full scale room test for surface products	☒ Yes	☐ No
AS ISO 9705:2003 Fire tests – Full scale room test for surface products (R2016)	☒ Yes	☐ No
ISO 13784-1:2014 Reaction to fire test for sandwich panel building systems – Part 1: Small room test (R2019)	☒ Yes	☐ No
ISO 13784-1:2002 Reaction-to-fire tests for sandwich panel building systems – Part 1: Test method for small rooms	☒ Yes	☐ No
ISO 5660-1:2015 Reaction to fire tests – Heat release, smoke production and mass loss rate – Part 1: Heat release rate (cone calorimeter method) and smoke production rate (dynamic measurement)	☒ Yes	☐ No
ISO 5660-1:2002 Reaction-to-fire tests – Heat release, smoke production and mass loss rate – Part 1: Heat release rate (cone calorimeter method)	☒ Yes	☐ No
ISO 5660-2:2002 Reaction-to-fire tests – Heat release, smoke production and mass loss rate – Part 2: Smoke production rate (dynamic measurement)	☒ Yes	☐ No
NZS/AS 1530.1:1994 Methods for fire tests on building materials and structures – Part 1: Combustibility test for materials	☒ Yes	☐ No
AS 1530.1:1994 Methods for fire tests on building materials, components and structures – Part 1: Combustibility test for materials (R2016)	☒ Yes	☐ No
ISO 1182:2020 Reaction to fire tests for products – Non-combustibility test	☒ Yes	☐ No
BS EN ISO 1182:2020 Reaction to fire tests for products – Non-combustibility test	☒ Yes	☐ No
ISO 1182:2010 Reaction to fire tests for products – Non-combustibility test	☒ Yes	☐ No

AS 4254.1:2012 Ductwork for air-handling systems in buildings – Part 1: Flexible duct	☒ Yes	☐ No
AS 4254.2:2012 Ductwork for air-handling systems in buildings – Part 2: Rigid duct	☒ Yes	☐ No
AS 1366.1:1992 Rigid cellular plastics sheets for thermal insulation – Part 1: Rigid cellular polyurethane (RC/PUR) Amendment 1 (R2018)	☒ Yes	☐ No
AS 1366.2:1992 Rigid cellular plastics sheets for thermal insulation – Part 2: Rigid cellular polyisocyanurate (RC/PIR) (R2018)	☒ Yes	☐ No
AS 1366.3:1992 Rigid cellular plastics sheets for thermal insulation – Part 3: Rigid cellular polystyrene – moulded (RC/PS-M) Amendment 1 (R2018)	☒ Yes	☐ No
AS 1366.4:1989 Rigid cellular plastics sheets for thermal insulation – Part 4: Rigid cellular polystyrene – extruded (RC/PS-E) (R2018)	☒ Yes	☐ No

42. If you **do not** agree with the citation of any of the above references, please explain the reason for your choice:

43. Are there other standards or reference documents that should be cited in this section of the Building Product Specifications? If so, please tell us what they are and why you think they should be incorporated:

Standard/reference document(s):	There possibly are some good Standards that should be considered however, insufficient time has been provided in this consultation to determine which Standards might apply
Why should these be incorporated: Please include detail on what product(s), acceptable solutions and verification methods these relate to, and how they are equivalent to or better than current standards.	

Lastly, do you have any other suggestions for future Building Product Specifications?

44. If you would like to suggest any other standards or reference documents that should be cited in future versions of the Building Product Specifications for product types not covered above, please tell us what they are and why you think they should be incorporated:

Standard/reference document(s):	There possibly are some good Standards that should be considered however, insufficient time has been provided in this consultation to determine which Standards might apply.
Why should these be incorporated: Please include detail on what product(s), acceptable solutions and verification methods these relate to, and how they are equivalent to or better than current standards.	