

**BUILDING
PERFORMANCE**



Building Performance Standards

Long-term funding projection and Standards programme

Briefing and consultation 2016



MINISTRY OF BUSINESS,
INNOVATION & EMPLOYMENT
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New Zealand Government

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1. Introduction

Building System Performance (BSP) is a branch of the Ministry of Business, Innovation and Employment (MBIE). BSP are undertaking a programme of Standards development and maintenance for those Standards that are considered most important to supporting the New Zealand Building Code.

This briefing and consultation will tell you about the current Standards programme and requests your feedback. In this document BSP are consulting on:

- which Standards are covered by the priority list for funding investment;
- the sequence of the Standards programme; and
- opportunities for co-funding.

BSP will use the feedback to drive an increasing focus on excellence and funding of Standards which are critical for New Zealand.

This programme has been developed in response to lessons from the Canterbury Earthquakes, the Government's Productivity Growth Agenda, and changes to the institutional arrangements for developing and approving New Zealand Standards. BSP is committed to a multi-year building Standards investment programme.

By investing in priority Standards, BSP's objectives are to:

- Lead the development and maintenance of the most important Standards that underpin the New Zealand Building Code
- Clearly signal Standards development intentions to the building sector to accommodate innovation in new and updated Standards
- Ensure building Standards are up-to-date and easy to comply with through consistent style, language use and definitions.

BSP intends to consult annually on the Standards programme which is part of a broader BSP strategy for improving building and construction outcomes for New Zealand. This programme will then be published to confirm the funding plan and updated annually. BSP will create a rolling yearly fund and provide a current description of the planned research and funding actions for Standards development. The programme may be altered to BSP's strategic goals overtime. Any adjustments will be consulted on as part of this programme's annual review.

2. Feedback

This briefing will tell you about BSP's priority list and the Standards programme over the next ten years. BSP seeks your feedback on:

- which Standards are covered by the priority list for funding;
- the sequence of the Standards programme; and
- opportunities for co-funding.

2.1. Questions

Q1 Do you think that MBIE needs to consider any additional Standards for the priority list?- Figure 1 (Pages 7 to 14 of the consultation document).

Q2 Do you know of any Standards that have information gaps or need research in order to be developed? (Pages 16 and 17 of the consultation document) If yes, please give details.

Q3 Do you have any comments on the sequencing of Standards in the Standards programme? - (Pages 15 to 19 of this consultation document).

Q4 Do you think that some of the Standards identified could be co-funded by BSP and other parties? If yes, which ones and who would the other party(s) be? (Pages 15 to 19 of this consultation document).

Q5 **If responding on behalf of an organisation/group:** Which Standard committees would you be interested in participating on, on a voluntary basis? (Pages 15 to 19) Please identify by Standard number or topic.

Q6 Please add any other comments you wish to make regarding the proposed Standards programme.

2.2. Timeframe for providing your feedback

Feedback submissions on this consultation document close at **5pm on 24 February 2017**.

2.3. How to submit your feedback

First read this consultation document, then:

You can provide your feedback on the proposed changes to us by:

- Completing BSP's online submission form:
<https://www.research.net/r/bsp-proposed-standards-programme-2016>
- Or, Emailing your submission form to:
buildingfeedback@mbie.govt.nz
- Or, Posting your feedback to:

Yasmin Merwood

Compliance Solutions, Building Systems Performance

Ministry of Business, Innovation and Employment

PO Box 1473

Wellington 6140

To email or post your feedback, please download BSP's submission form (**attached to your email**).

2.4. What happens to your feedback & information

Your feedback will contribute to the BSP Standards programme.

MBIE intends to post its report on all submissions to the website (www.building.govt.nz) along with the published programme.

Your submission will be kept by the Ministry of Business, Innovation and Employment and will become public information. This means that a member of the public may request a copy of your submission from us under the Official Information Act. Any submission summary or analysis report we create as a result of this process may also mention your submission.

Please tell us if there is any part of your submission (including your name) that you do not want to be released or included in a submission summary or analysis report. For example, you may not want members of the public knowing something that happened to you personally.

2.5. What happens next

MBIE will record and analyse all submissions it receives. BSP will refine the Standards programme based on the feedback received and BSP will publish the final programme on the MBIE Building website (www.building.govt.nz). Each year there will be an opportunity to provide feedback on the programme as it is updated.

3. Building Regulation and Standards

3.1. Building Systems Performance (BSP)

BSP is a branch of MBIE that provides policy and technical advice on New Zealand's building system, rules and Standards. BSP is the branch that implements building legislation, guidance and regulations (e.g. the Building Code) to deliver MBIE's objective of 'Growing New Zealand for all'.

BSP provides advice on regulatory settings and policies that administer the Building Act and related statutes, including:

- reporting on sector trends and innovations
- making determinations on interpretations of the Building Code that may be in dispute
- product certification schemes
- audit regimes for Building Consent Authorities
- sector based education
- responsible for the development and maintenance of the Building Code, Acceptable Solutions and Verification Methods
- responsible for responding to the majority of the findings of the Canterbury Earthquake Royal Commission.

3.2. The New Zealand Building Code, BSP and Standards

Standards are a key part of the New Zealand building regulatory system. The New Zealand Building Code, Acceptable Solutions and Verification Methods include references to Standards which can be used to demonstrate compliance. Standards are part of the framework of the building regulatory system that positively contributes to buildings and the health, physical independence and well-being of the people who use them.

3.3. Standards New Zealand

Standards New Zealand is a stand-alone business unit within the MBIE and is separate to BSP. Standards New Zealand have established techniques and processes from the Standards and Accreditation Act 2015, the International Organization for Standardization (ISO), and International Electrotechnical Commission (IEC) Directive.

Standards New Zealand project manage the development, editing, and publication of Standards. They also sell New Zealand Standards, joint Australia-New Zealand, and international Standards.

BSP engage Standards New Zealand to project manage joint Standards and facilitate BSP's contribution to Australian and European Standard reviews.

4. The Priority List

The following pages give the context around BSP's priority list of Standards (see Figure 1 on page 9). The priority list will be reviewed, updated and published every year.

4.1. Developing the priority list

In 2015 BSP conducted a review of all currently cited Standards in the Building Code, Acceptable Solutions and Verification Methods. BSP looked to select those which are considered to be the most important in underpinning the building code for development funding.

The following groups were consulted in the preparation of that initial priority list in 2015:

- BRANZ
- Building Industry Federation (BIF)
- Building Officials Institute of New Zealand (BOINZ)
- Cement and Concrete Association of New Zealand (CCANZ)
- Certified Builders Association of New Zealand Inc. (CBANZ)
- Construction Industry Council (CIC)
- Heavy Engineering Research Association (HERA)
- Institution of Professional Engineering of New Zealand (IPENZ)
- New Zealand Institute of Architects (NZIA)
- Registered Master Builders Federation
- Standards New Zealand (MBIE)
- Wood Processors and Manufacturers Association of New Zealand (WPMA)

4.2. Prioritisation Criteria

The criteria for acceptance on the 2015 list were refined and developed for this priority list.

The Standards that BSP proposes to fund are important to the construction industry and the functioning of the Building Code.

A Standard gets on the list if it is a primary reference in the Building Code, Acceptable Solutions or Verification Methods and it is within the highest 90 scoring Standards in that list.

The priority of a Standard is determined by a score. Meeting any of the following criteria gives the Standard a point. The greater the number of the points the Standard achieves the greater the score and the higher on the priority list the Standard will be. The Standard is given a point if it:

- enables an important aspect of the Building Code to function (is a primary reference)
- affects building elements that have a high risk of death, disability or hospitalisation associated with the design
- affects a wide class of products and materials i.e. not product/brand specific
- covers an area or topic that needs research and development to support the Standard's development, and which has significant cost that is unlikely to be covered within the building industry
- is referenced by multiple Building Code Clauses or their Acceptable Solutions or Verification Methods
- addresses risks which are associated with significant economic cost or with damage/ harm so great it would affect both the building and the wider New Zealand economy e.g. weather-tight homes
- affects permanent elements of a building that are hard to repair retrospectively
- is a design standard (3 points), a test or installation standard (2 points) or a primary product/material standard (1 point).

4.3. The current priority list diagrams

The following pages give the Standards in the priority list based on the criteria covered in Section 4.2. Note the timing and sequence of the Standard's review is discussed in the next section of this consultation (Section 5).

BSP has identified 47 New Zealand Standards that are considered appropriate to allocate Building Levy funding towards the ongoing development on a rolling programme basis. BSP consider such funding to include the costs associated with Standards New Zealand's development, approval processes and maintenance.

BSP have also identified a further 29 joint Australian / New Zealand standards, 10 Australian and 2 European Standards for inclusion in this funding.

Figure 1: Standards in priority order without sequencing

Priority number	Standard Number	Standard Title	Priority Score
1	AS/NZS 1170.0: 2002	Structural Design Actions – Part 0: General principles	10
2	AS/NZS 1170.1: 2002	Structural Design Actions - Part1: Permanent, imposed and other actions	10
3	AS/NZS 1170.3: 2003	Structural Design Actions – Part 3: Snow and ice actions	10
4	NZS 3603: 1993	Timber Structures Standard	10
5	NZS 3602: 2003	Timber and wood-based products for use in building	9
6	AS/NZS 3500: 2015	National plumbing and drainage code - Parts 1 (Water), 2 (Sanitary Plumbing and Drainage) and 3 (Heated Water)	9
7	NZS 4219: 2009	Seismic performance of engineering systems in buildings	9
8	NZS 3604: 2011	Timber Framed Buildings	9
9	NZS 4230: 2004	Design of reinforced concrete masonry structures	9
10	NZS 3404: 1997	Steel Structures Standard - parts 1 & 2	9
11	AS/NZS 4600: 2005	Cold formed steel structures	9
12	NZS 3605: 2001	Timber piles and poles for use in building	9
13	NZS 3109: 1997	Concrete construction	9
14	AS/NZS 1170.2: 2011	Structural Design Actions – Part 2: Wind actions	9
15	NZS 1170.5: 2016	Structural Design Actions – Part 5:Earthquake actions	9
16	NZS 3101: 2016	Concrete Structures Standard - parts 1 & 2	9
17	NZS 4121: 2001	Design for access and mobility: Buildings and associated facilities	9
18	NZS 3640: 2003	Chemical Preservation of round and sawn timber	8
19	NZS/BS 476: 1987	Fire tests on building materials and structures	8

Priority number	Standard Number	Standard Title	Priority Score
20	AS 1530.1: 1994	Methods of fire tests on building materials, components and structures - Part 1: Combustibility tests for materials	8
21	AS 1530.2: 1993	Methods of fire tests on building materials, components and structures – Part 2: Test for flammability of materials	8
22	AS 1530.4: 2005	Methods of fire tests on building materials, components and structures – Part 4: Fire-resistance tests of elements of construction	8
23	NZS: 4402: 1986	Methods of testing soils for civil engineering purposes	8
24	NZS 4303: 1990	Ventilation for acceptable indoor air quality	8
25	AS 1668.2: 2012	The use of ventilations and air conditioning in buildings – Part 2: Mechanical Ventilation	8
26	AS/NZS 2566.1: 2002	Buried flexible pipelines - Part 1: Structural design	8
27	AS/NZS 2566.2: 2002	Buried flexible pipelines - Part 2: Installation	8
28	AS/NZS 3725: 2007	Design for installation of buried concrete pipes	8
29	AS/NZS 2293.2: 1995	Emergency evacuation lighting for buildings - Part 2: Inspection and Maintenance	8
30	AS/NZS 1657: 1992	Fixed platforms, stairways, ladders (design, installation of)	8
31	NZS 3622: 2004	Verification of timber properties	8
32	NZS 3112.2: 1986	Methods of test for concrete - Part 2	8
33	AS 2159: 2009	Rules for the design and installation of piling (known as the (SAA Piling Code) Amend: 1	8
34	AS/NZS 1664.1: 1997	Aluminium structures - Part 1: Limit state design plus testing methods	8
35	SNZ HB 8630: 2004	Tracks and outdoor visitor structures	8
36	NZS 4229: 2013	Concrete masonry buildings not requiring specific engineering design	8

Priority number	Standard Number	Standard Title	Priority Score
37	NZS 4299: 1998	Earth buildings not requiring specific design	8
38	NZS 4297: 1998	Engineering Design of Earth Buildings	8
39	NZS 4332: 1997	Non-domestic passenger and goods lifts	8
40	AS/NZS 4671: 2001	Steel Reinforcing Materials Amend: 1	8
41	NZS 4223.1 & 4: 2008	Code of practice for glazing in buildings - Parts 1: Glass selection and glazing and 4: Wind, dead, snow, and live actions.	8
42	NZS 4243.1 and .2: 2007	Energy efficiency - large buildings - Parts 1: Building thermal envelope & Part 2: Lighting	7
43	AS/NZS 4859.1: 2002	Materials for thermal insulation of buildings Part 1: General criteria and technical provisions	7
44	NZS 4512: 2010	Fire detection and alarm systems in buildings	7
45	NZS 4232.2: 1988	Performance criteria for fire resisting enclosures - Part 2: Fire resisting glazing systems	7
46	NZS 4541: 2013	Automatic Fire Sprinkler Systems	7
47	NZS 4431: 1989	Code of practice for earth fill for residential development	7
48	NZS 3501: 1976	Specification for copper tubes for water, gas, and sanitation	7
49	AS/NZS 4020: 2005	Testing of products for use in contact with drinking water	7
50	AS/NZS 1547: 2012	On-site domestic wastewater management	7
51	AS 2293: 2005	Emergency escape lighting and exit signs for buildings - Part 1 and 3	7
52	NZS 4211: 2008	Specification for performance of windows	7
53	NZS 3106: 2009	Design of concrete structures for the storage of liquids	7
54	AS/NZS 2269.0: 2012	Plywood – Structural – Part 0: Specifications	7

Priority number	Standard Number	Standard Title	Priority Score
55	AS/NZS 2269.1: 2012	Plywood – Structural –Part 1: Determination of structural properties – test methods	7
56	AS/NZS 2269.2: 2012	Plywood – Structural –Part 2: Determination of structural properties – evaluation methods	7
57	NZS 4298: 1998	Materials and workmanship for earth buildings	7
58	NZS 4218: 2009	Thermal insulation - housing and small buildings	6
59	AS/NZS 4284: 2008	Testing of building facades	6
60	NZS HB 4236: 2002	Masonry veneer wall cladding	6
61	NZS 4515: 2009	Fire sprinkler systems for life safety in sleeping occupancies (up to 2000 square metres)	6
62	AS 3786: 1993	Smoke alarms - Amend: 1, 2, 3, 4	6
63	AS/NZS 2918: 2001	Domestic solid fuel burning appliances - installation	6
64	AS/NZS 1668.1: 2015	The use of ventilation and air conditioning in buildings – Part 1: Fire and smoke control in buildings	6
65	AS/NZS 3666.1: 2011	Air-handling and water systems of buildings - Microbial Control - Part 1 : Design, installation and commissioning	6
66	AS/NZS 3666.2: 2011	Air-handling and water systems of buildings - Microbial Control - Part 2 : Operation and maintenance	6
67	AS/NZS 3666.2: 2011	Air-handling and water systems of buildings - Microbial Control - Part 3 : Performance-based maintenance of cooling water systems,	6
68	AS/NZS 4740: 2000	Natural ventilators - Classification and performance	6
69	AS/NZS 4858: 2004	Wet area membranes	6
70	AS/NZS 2032: 2006	Installation of PVC pipe systems	6
71	AS/NZS 2033: 2008	Installation of polyethylene pipe systems	6

Priority number	Standard Number	Standard Title	Priority Score
72	NZS 8500: 2006	Safety barriers and fences around swimming pools, spas and hot tubs	6
73	BS EN 81-20.1 & 2: 2014	Safety rules for the construction and installation of lifts - Parts 1 and 2	6
74	NZS 4223.3: 2016	Glazing in buildings - Parts 3: Human impact safety requirements	6
75	NZS 3114: 1987	Specification for concrete surface finishes	5
76	NZS 4214: 2006	Methods of determining the total thermal resistance of parts of buildings	5
77	NZS 4305: 1996	Energy efficiency - domestic type hot water systems	5
78	AS 1397: 2001	Continuous hot-dip metallic sheet coated steel sheet and strip - Coatings of zinc and zinc allowed with aluminium and magnesium Amend: 1	5
79	NZS 2295: 2006	Pliable, permeable building underlays	5
80	AS/NZS 1905.1: 1997	Components for the protection of openings in fire-resistant walls - Part 1: fire resistant door sets	5
81	NZS 4520: 2010	Fire resistant door sets	5
82	NZS 4517: 2010	Fire sprinkler systems for houses	5
83	NZS 4514: 2009	Interconnected smoke alarms for houses	5
84	AS/NZS 1680.1: 2006	Interior and workplace lighting - Part 1: General principles and recommendations	5
85	AS/NZS 4401: 2006	High density polyethylene (PE-HD) pipes and fittings for soil and waste discharge (low and high temperature) systems inside buildings	5
86	AS 2845.3: 2010	Water supply - Mechanical backflow prevention - Part 3: Field testing and maintenance of testable devices	5
87	AS/NZS 2845.1: 2010	Water supply - Part 1: Materials, design and performance requirements	5
88	NZS 4251: 2007	Solid plastering	5

Priority number	Standard Number	Standard Title	Priority Score
89	NZS 4210: 2001	Code of practice for masonry construction: materials and workmanship	5
90	AS/NZS 4534: 2006	Zinc and zinc/aluminium-alloy coatings on steel wire	4
91	AS/NZS 4680: 2006	Hot-dip galvanised (zinc) coating on fabricated ferrous articles	4
92	AS/NZS 2728: 2013	Prefinished/prepainted sheet metal products for interior/exterior building applications - Performance requirements	4
93	NZS 4510: 2008	Fire hydrant systems for buildings	4
94	EN 115-1: 2008	Safety of escalators and moving walks - Construction and installation - Amend: 1	4
95	AS/NZS 1748: 2011	Timber - Stress graded - Product requirements for mechanically stress graded timber	4

5. The Sequenced Standards Programme

The following pages give BSP's sequenced Standards programme for the priority Standards set out in Section 4 (see Figure 3 and Figure 4 on pages 18 and 19).

5.1. Sequencing the priority list into a Standards programme

Sequencing the Standards from the priority list into Standards programme is based on:

- the Standard's priority number on the list
- its relative age (date of latest full review)
- BSP's strategic goals
- any necessary research that needs to take place before a Standard can be developed
- Common sense order (where it make sense to review one Standard before another, to avoid unnecessary re-work).

5.2. Constraints on investment and the programme

The number of Standards that can be reviewed and developed at any one time is dependent on the availability of people to participate in Standards committees. The Standards programme will be constrained to roughly 10 new Standard reviews a year to allow building industry organisations and BSP staff to be available for a range of Standard committees. This means that roughly 20 Standards reviews could be running at any one time (this assumes a Standard review and development will run for approximately 2 years); See Figure 3 and Figure 4.

The funding source for this Standards programme will be the Building Levy. Depending on the mix of Standards and contract durations, the total value of investment under this programme is likely to be between \$15 million and \$20 million over a ten year period. The funding will be used for commissioning costs of the Standard's development. There will be no fundamental change to the regular Standards committee process and participation will still be on a voluntary basis.

Note: it is BSP's objective that funding for Standards on the priority list will not duplicate investment through any wider science or Standard development programme which is already underway elsewhere, whether domestic or internationally. The funding of each Standard's will be assessed against this objective before being decided.

There may be matters of urgency that mean that the funding of a particular Standard will be made ahead of its pre-allocated priority ranking. Any Standard that will be funded under urgency will be assessed on a case-by-case basis as a separate process to the current sequencing and this will be published along with the Standards programme.

5.3. Co-funding

BSP will consider co-funding opportunities with the building industry and will be approaching parties on a case-by-case basis regarding relevant Standards. This will not necessarily change the sequencing order of a Standard.

This does not preclude any industry or sector group from approaching Standards New Zealand for other Standard development.

5.4. Pre-review

Figure 3 and Figure 4 gives the proposed work programme over the next 10 years. Each box represents a Standard and when a review is scheduled.

In practice there is a process that will happen in the six months before any Standard is scheduled called a pre-review (this would constitute a six month block before each 'box' shown in Figure 3 and Figure 4). This pre-review has been removed from Figure 3 and Figure 4 to provide clarity.

The pre-review is where BSP will decide what work will be funded for that Standard. This pre-review will involve:

- consultation with the relevant organisations for the Standard to assess what work needs to be done on this Standard (if any)
- clarifying any issues or gaps in the Standard and areas for development within BSP.

This pre-review will result in one of the following actions:

1. no action is needed - the Standard will be re-sequenced into the programme and another Standard will take its place
2. re-scheduling for research and development that needs to be resolved before the Standard can be developed - the Standard will be re-sequenced into the programme and another Standard will take its place
3. amendments will be commissioned
4. full review of that Standard will be commissioned.

The pre-review result and action will be published on the Standards programme on MBIE's Building website (www.building.govt.nz) as a live record of actions and to clearly show the decisions made to the building industry.

5.5. Research and Development

In the process of sequencing the Standards programme BSP has identified a number of Standards that need research and development (R&D) before the Standard review can be commissioned.

The following list gives the Standards BSP and SNZ have identified as needing R&D. This list will be updated annually.

Figure 2: Areas needing research before Standard review can be commenced

Standard	Area of research	Research Underway
AS/NZS 1748 Timber - Stress graded - Product requirements for mechanically stress graded timber	Grading methodologies	<input type="checkbox"/>
NZS 4219 Seismic performance of engineering systems in buildings	Performance of building element under earthquake actions, design strategies	<input checked="" type="checkbox"/>
AS 1530.1, 1530.2, 1530.4 Methods of fire tests on building materials, components and structures	Performance of building element under earthquake actions, design strategies	<input checked="" type="checkbox"/>
NZS 3101.1 and .2 Concrete structures	Performance of building element under earthquake actions, design strategies	<input checked="" type="checkbox"/>
NZS 4243.1 Energy efficiency - large buildings	New baselines for non-residential thermal insulation– are existing levels appropriate? If not, what should they be?	<input type="checkbox"/>
NZS 3604 Timber Framed Buildings	Collating of existing research, pre-committee collation	<input type="checkbox"/>
NZS/BS 476 Fire tests on building materials and structures		<input type="checkbox"/>
NZS 4223.4 Code of practice for glazing in buildings: Wind, dead, snow, and live actions.	Performance of buildings under New Zealand snow and ice actions	<input checked="" type="checkbox"/>
NZS1170.3 Structural design actions: Snow and ice actions		

5.6. Standards programme diagrams

The following pages describe which Standards will be funded by BSP over a period of ten years as a Standards programme. The Standards programme is presented in two ways:

1. Figure 3 gives the Standards programme in terms of the action status
2. Figure 4 gives the same Standards by a topic grouping.

The Standards are in the same order in both figures i.e. each is a different graphical representation of the same information.

Figure 3: Standards programme by timeframe & calendar year

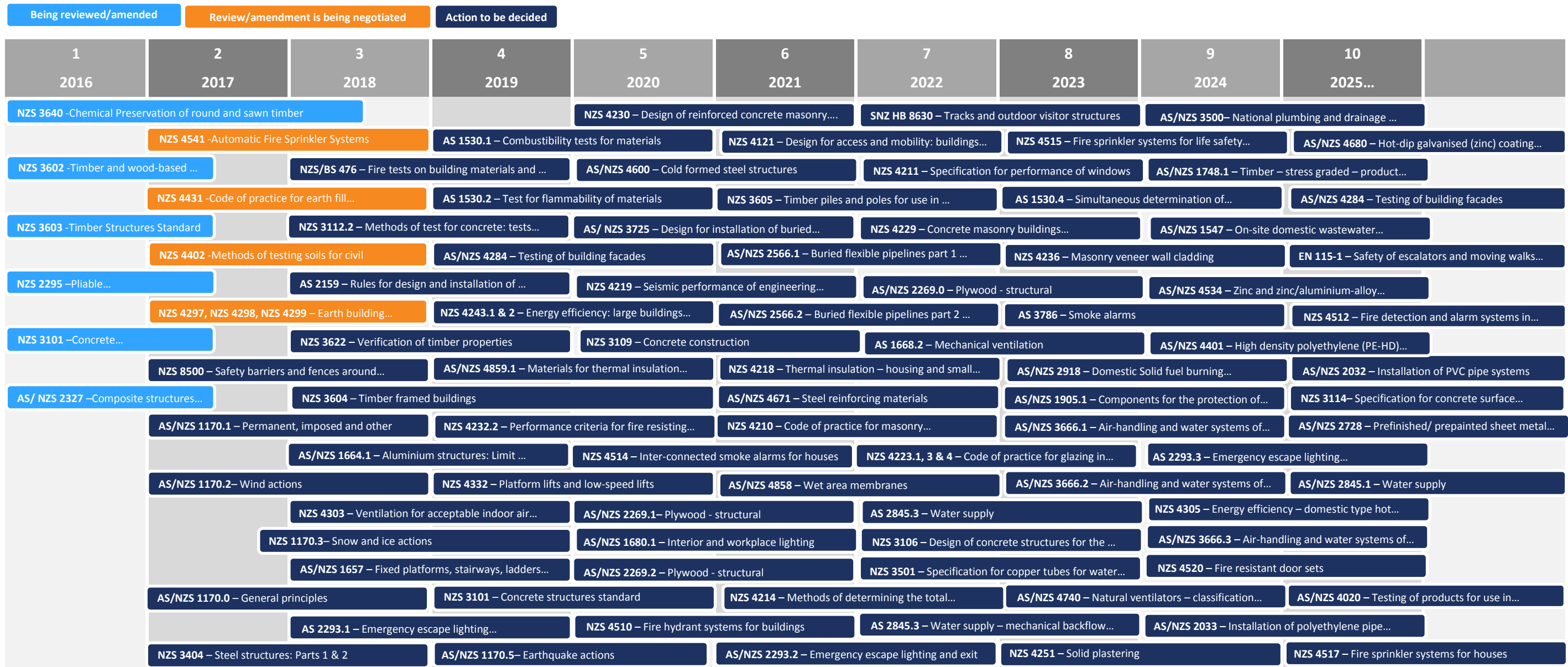
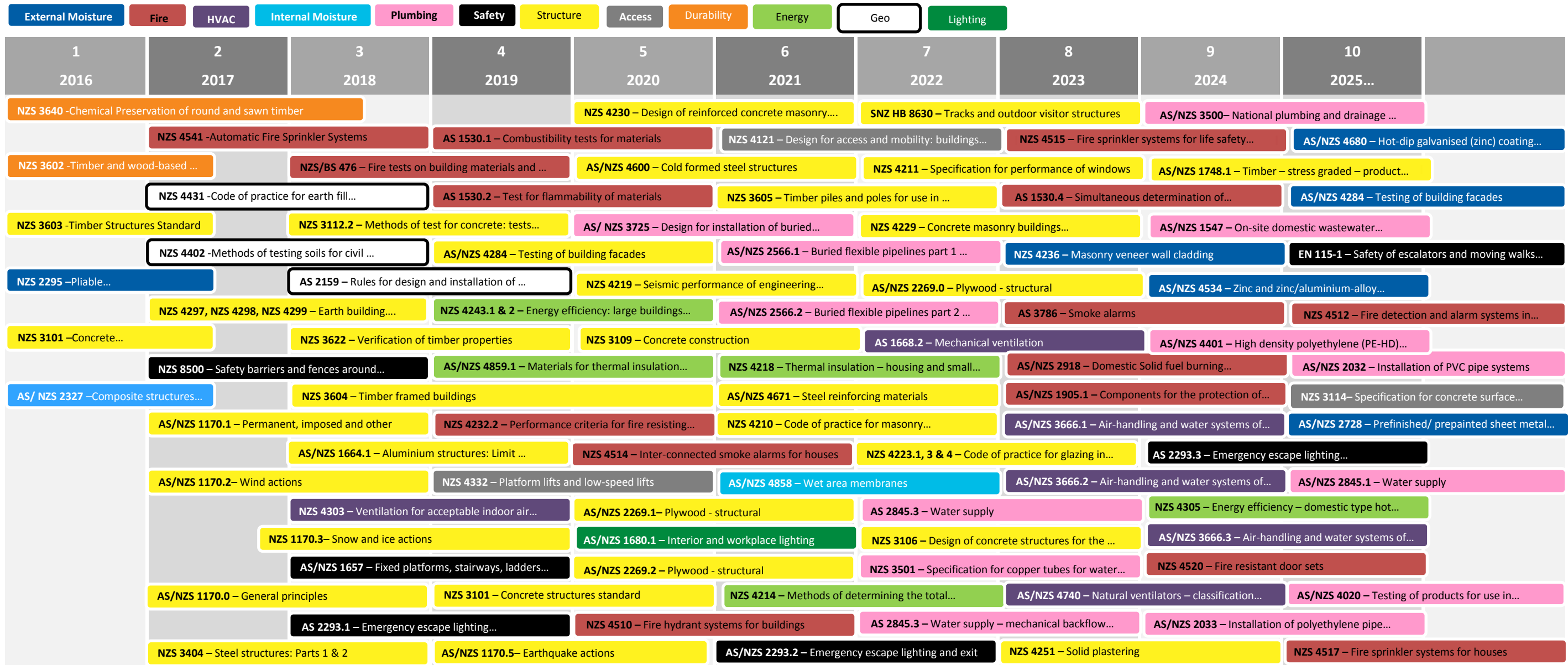


Figure 4: Standards programme by group & calendar year



6. Publishing the Priority List & Standards Programme

Each year the priority list and Standards programme will be published on the Building Performance website of MBIE following an updated consultation document – www.building.govt.nz.

If you wish to be notified when the list and programme is published please give us your contact details in the submission form.

7. Targeted Consultation

BSP will be consulting the following groups on this programme:

- Architectural Designers New Zealand (ADNZ)
- BRANZ
- Brick and Block Federation of New Zealand (BBFNZ)
- Building Industry Federation (BIF)
- Building Institute of New Zealand (NZIOB)
- Building Officials Institute of New Zealand (BOINZ)
- Cement and Concrete Association of New Zealand (CCANZ)
- Certified Builders Association of New Zealand Inc (CBANZ)
- Construction Industry Council c/ Green Building Council (CIC)
- Designers Institute of New Zealand (DINZ)
- Electrical Workers Registration Board (EWRB)
- Heavy Engineering Research Association (HERA)
- Institution of Professional Engineers New Zealand (IPENZ)
- Licensed Building Practitioners New Zealand (LBP)
- New Zealand Fire Service
- New Zealand Geotechnical Society (NZGS)
- New Zealand Institute of Architects (NZIA)
- New Zealand Society for Earthquake Engineering Inc (NZSEE)
- Office for Disability Issues (ODI)
- Plumbers, Gasfitters and Drainlayers Board (PGDB)
- Prefab New Zealand
- Property Council New Zealand

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- Registered Master Builders Federation
 - Society of Fire Protection Engineers (SFPE)
 - Standards Australia
 - Standards New Zealand (MBIE)
 - Structural Engineering Society New Zealand (SESOC)
 - The Building and Construction Industry Training Organisation (BCITO)
 - Wood Processors and Manufacturers Association of New Zealand (WPMA)





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