

APRIL 2014 Update

The April 2014 *Update* includes 1 new generic worksection, 1 new cut-down worksection, 18 reissued worksections, 7 new branded worksections and 2 new TECHnotes. This *Update* also incorporates amendments to the National Construction Code (BCA and PCA) for 2014 and changes in standards from September 2013 to February 2014. View the PDF of your package to see the highlighted changes.

New generic worksection

- 0520 *Partitions - combined.*

New cut-down worksection

- 0551b *Joinery.*

Deleted cut-down worksections

- 0521b *Partitions – demountable.*
- 0522b *Partitions – framed and lined.*
- 0524b *Partitions – glazed.*

Reissued worksections

- 0191 *Sundry items.*
- 0193 *Building access safety systems.*
- 0242 *Landscaping – fences and barriers.*
- 0277 *Pavement ancillaries.*
- 0323 *Straw bale.*
- 0333 *Stone repair.*
- 0342 *Light steel framing.*
- 0345 *Steel – protective paint coatings.*
- 0346 *Structural fire protection systems.*
- 0454 *Overhead doors.*
- 0521 *Partitions – demountable.*
- 0522 *Partitions – framed and lined.*
- 0523 *Partitions – brick and block.*
- 0524 *Partitions – glazed.*
- 0551 *Joinery.*
- 0574 *Window coverings.*
- 0575 *Tapestries.*
- 0911 *Cable support and duct systems.*

New branded worksections

- 0191 *ACCULINE sundry items.*
- 0242 *FD Fencing in landscape - fences and barriers.*
- 0411 *PARCHEM waterproofing - external and tanking.*
- 0453 *CS Cavity Sliders in doors and access panels.*
- 0621 *PARCHEM waterproofing - wet areas.*
- 0657 *PARCHEM in resin based seamless flooring.*
- 0746 *IVR air grilles.*

Renamed worksections

- 0193 *Building access safety systems [formerly 0193 Roof access safety systems].*
- 0462 *Structural silicone glazing [formerly 0462 Structural glazing].*
- 0679 *Wallpapering [formerly 0679 Wall papering].*

New TECHnotes

- DES 030 *Seismic actions on non-structural components.*
- DES 031 *Specifying R-Values.*

- > Air Conditioning and Mechanical Contractors' Association of Australia
- > Australian Council of Built Environment Design Professions
- > Australian Elevator Association
- > Australian Institute of Architects
- > Australian Institute of Building
- > Australian Institute of Building Surveyors
- > Australian Institute of Quantity Surveyors
- > Construction Industry Engineering Services Group
- > Consult Australia
- > Department of Finance (Federal)
- > Department of Finance (WA)
- > Department of Finance and Services (NSW)
- > Department of Housing and Public Works (QLD)
- > Department of Infrastructure (NT)
- > Department of Planning, Transport and Infrastructure (SA)
- > Department of Treasury (ACT)
- > Department of Treasury and Finance (TAS)
- > Engineers Australia
- > Master Builders Australia
- > Standards Australia
- > Victorian Building Authority

SPECnotes

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STANDARDS REVISING

The most significant standards published in December 2013, January and February 2014 which you may need to refer to in a specification, but are not yet cited in NATSPEC, include:

AS 1417 Receiving antennas for radio and television in the VHF and UHF broadcast bands

Part 1 (Int)-2011 Design, manufacture and performance of outdoor terrestrial TV antennas. (\$260.85)

This standard expired on 24th February.

Referenced worksection: 0962 *Television distribution systems*.

AS 1657-2013 Fixed platforms, walkways, stairways and ladders – Design, construction and installation. (\$194.66)

This standard supersedes the 1992 edition. It includes single stile ladders, access to roofs, removed references to the regulatory authorities, requirements relating to a particular form of access (e.g. stairways, ladders) when grouped together, a broader scope of testing of products and more test methods, slip resistance issue highlighted and testing of a wider range of products introduced where verification by engineer's analysis is not available.

Referenced worksections: 0012 *Waterfront development*; 0072 *Water supply – pump stations (Design)*; 0077 *Sewerage systems-pump stations (Design)*; 0171 *General requirements*; 0457 *External screens*; 0551 *Joinery*; 0552 *Metalwork – fabricated*; 0702 *Mechanical design and install*; 0713 *Cooling towers*; 0715 *Tanks, vessels and heat exchangers*; 0731 *Fans*; 0732 *Air filters*; 1341 *Water supply – reticulation (Construction)*; 1342 *Water supply – pump stations (Construction)*; 1354 *Drainage structures*; 1361 *Sewerage systems – reticulation (Construction)*; 1362 *Sewerage systems – pump stations (Construction)*.

AS/NZS 2243 Safety in laboratories.

Part 8:2014 Fume cupboards. (\$260.85)

This standard supersedes the 2006 edition. It provides requirements for fume cupboards relating to their safety and performance, along with recommendations and procedures for their selection, installation, testing and use. This edition includes requirements for risk assessment and permits the consideration of manifold duct systems.

Referenced worksection: 0741 *Ductwork*.

AS 2358-1990 Adhesives – For fixing ceramic tiles. (\$233.32)

This standard has been withdrawn and has not been replaced.

Referenced worksections: 0275 *Segmental pavers – mortar and adhesive bed*; 0631 *Ceramic tiling*; 0632 *Stone and terrazzo tiling*.

AS/NZS 2967: 2014 Optical fibre communication cabling systems safety. (\$76.95)

This standard supersedes the 2010 edition. It provides safety rules for optical fibre communication systems and associated materials. The new edition covers cabling systems safety up to laser hazard classification level 2M and includes a revised list of referenced standards.

Referenced worksections: 0902 *Electrical design and install*; 0961 *Telecommunications cabling*.

AS 3566 Self-drilling screws for the building and construction industries.

Part 2:2002 Corrosion resistance requirements. (\$134.32)

This standard has been made obsolescent. Referenced worksections: 0181 *Adhesives, sealants and fasteners*; 0421 *Roofing – combined*; 0427 *Roofing – tiles*.

AS 4283-1995 Cold mix asphalt for maintenance patching. (\$89.13)

This standard has been withdrawn and replaced with AUSTROADS AGPT04B.

Referenced worksections: 1142 *Bituminous cold mix*; 1146 *Bituminous slurry surfacing*.

AS/NZS ISO/IEC 15288:2013 Systems engineering – Systems life cycle processes. (\$194.66)

This standard supersedes AS/NZS 15288:200 and involves framework to improve communication and cooperation among the parties that create, utilize and manage modern systems. The standard is identical and reproduced from ISO/IEC 15288:2008 *Systems and software engineering – System life cycle processes*.

Referenced worksection: 0701 *Mechanical systems*.

OTHER STANDARDS

Miscellaneous publications published in December 2013, January and February 2014 which may be of interest to specifiers, include:

AS/NZS 4755 Demand response capabilities and supporting technologies for electrical products – Interaction of demand response enabling devices and electrical products.

Part 3.3:2014 Operational instruction and connections for electric storage and electric-boosted storage water heaters. (\$152.87)

This is a new standard and forms part of series 3 which aims to define the nomenclature, architecture and operational instructions for systems that can be used to remotely control electrical products and to define the demand response capabilities of electrical products. Part 3.3 addresses only the interaction of electric and electric-boosted storage water heaters and demand response enabling devices (DREDS).

AGPD03/14 – Guide to project delivery – Contract management.

This part of the Austroads Guide gives guidance to project delivery practitioners on the use of contracts for the delivery of projects. It defines contracts, and the documentation required to establish and administer a contract and also covers appropriate standards of practice and procedures for the management of contracts.

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Polished concrete

Polished concrete is a generic term used to describe a range of decorative concrete flooring finishes produced by a variety of techniques such as steel trowelling, burnishing or honing.

Different treatments can be used to embellish the polished concrete surfaces, including colouring, texturing, patterning by saw cutting or inlaying with metal or timber strips or of tiles or pavers.

Special consideration needs to be given to the specification of the concrete used for polished floors to produce consistency of colour, surface aggregate displacement, surface tolerances and control of cracking.

The architect and engineer should comprehensively document these special requirements and any special decorative effects. The slip resistance of the finished polished surfaces should also be considered.

Cement Concrete and Aggregates Australia publishes the following information on the specification of polished concrete:

- CCAA Briefing 05 *Polished concrete floors*.
- CCAA Datasheet *The specification of burnished concrete finish*.
- CCAA Datasheet *The specification of honed or polished concrete finishes*.
- CCAA Datasheet *Slip resistance of polished concrete surfaces*.

In this update NATSPEC has added clauses for the specification of polished concrete finishes to the 0310 *Concrete – combined*, 0315 *Concrete finishes* and 0612 *Cementitious toppings* worksections.

NATSPEC TECHnote DES 030 – Seismic design actions on non-structural components

Seismic design actions are generally considered the sole responsibility of the structural engineer. However, architects, building services engineers and contractors must also take seismic design actions into account. The failure of non-structural architectural and services components to resist seismic forces from earthquakes can result in serious damage to buildings and their contents, and injury or death to occupants.

Seismic restraint is largely a design issue; the specification serves primarily to define parameters and the quality of components. The designer of the non-structural components or the contractor must select and detail components to resist the specific seismic requirements. For example, such detailing may require the inclusion of anti-vibration mounts to equipment.

This new TECHnote highlights the requirements of AS 1170.4 for seismic restraint to non-structural components of a building and examines the statutory requirements of the National Construction Code (NCC) and the relevant provisions within NATSPEC.

Using branded worksections

A NATSPEC branded worksection is an alternative to a generic NATSPEC worksection. Based on the generic NATSPEC worksection *Template* of the same classification number, a branded worksection *Template* is pre-completed to detail the proprietary product(s), execution and selections. It can be incorporated into the specification at any stage of the project documentation once a specific product has been selected.

NATSPEC develops a branded worksection in conjunction with the Product Partner and updates the latest standards, regulations, building codes and product information twice a year, in April and October.

Branded worksections are available to specifiers from three sources:

- SPECbuilder Live where subscribers can select a branded worksection for inclusion into a project specification.
- The Product Partner websites.
- Free on NATSPEC website www.natspec.com.au

A branded worksection provides up-to-date and relevant product specification information in one document. This saves the specifier time and energy, and reduces risk and stress. When using a branded worksection, follow these simple steps:

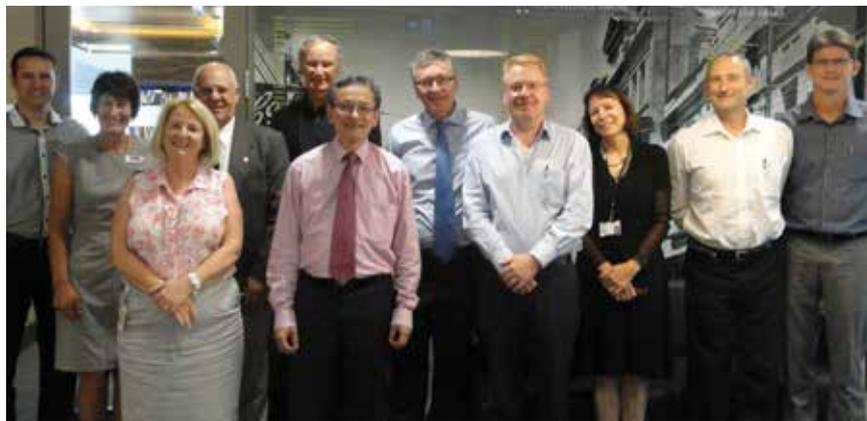
- Review the product for its applicability to the project, local conditions and regulations.
- Delete clauses, subclauses, paragraphs or products that are not relevant to the project.
- Complete the write-in options [complete/delete] prompts and schedules.
- Refer to *Guidance* text within the worksection, Product Partner catalogue and Product Partner website for more information.
- Contact the Product Partner for assistance with queries.

AUS-SPEC News

AUS-SPEC is planning to develop new stormwater, water supply and sewerage maintenance worksections for the *Public utilities package*.

The umbrella requirements for stormwater maintenance will be useful for all councils. The water supply and sewerage maintenance worksections will be aimed at the regional councils of NSW and QLD which are responsible for providing these services to their communities.

The AUS-SPEC documents are specifically written for local government. Feedback on the content and/or use of current AUS-SPEC documents and any suggestions for new topics will assist us to provide better services to our subscribers. Please email your feedback to aus-spec@natspec.com.au



L-R: Richard Currie (Australian Institute of Architects), Lyn McDonald (Construction Training Fund), Jane Vallance (Building Commission), Graham Teede (Australian Institute of Building), Warren Kerr (Australian Council of Built Environment Design Professionals), Richard Choy (NATSPEC), Michael McLean (Master Builders Australia), James England (Engineers Australia), Carolyn Marshall (Building Management and Works), Steven Luce (Department of Treasury), Robin Wheelwright (Australian Institute of Quantity Surveyors)

NATSPEC, BIM and Industry

NATSPEC continues to work with all of industry to improve the practice of Building Information Modelling (BIM), most recently at the WA BIM Roundtable on 10 March 2014.

The participants agreed unanimously that BIM was now part of the Australian industry vernacular and that their organisation believed there were benefits to gain from BIM. However, there are still challenges to obtaining the best benefits of BIM. The three top issues were the need to improve awareness and understanding, develop BIM Standards and increase training. It was further agreed to endorse and promote the NATSPEC National BIM Guide as a learning resource. The Guide is freely available from www.natspec.com.au

ABCB removes maintenance from BCA Volume 1

NCC 2014 will no longer mandate maintenance through BCA Section 1 *Maintenance*, the objective of which was “to ensure that people are protected from illness, injury and loss of amenity throughout the life of the building” (clause IO1) and “to reduce greenhouse gas emissions by efficiently using energy throughout the life of the building” (clause IO2). The reason given by the ABCB for deleting maintenance from NCC is that “maintenance provisions are primarily a state and territory regulatory function”. (Some jurisdictions including New South Wales and the Northern Territory had previously deleted it via a local variation.) As a consequence of the deletion of BCA Section 1, NATSPEC has removed reference to it from the April 2014 *Update* but continues to include safety maintenance standards such as AS 1851 and the AS/NZS 3666 series, as well as provisions aimed at maintaining energy efficiency of services. NATSPEC also continues to deal with maintainability.

While the safety provisions of the deleted Part I1 are well covered by state and territory regulations, the same is not the case for the energy maintenance provisions of Part I2. Specifiers should check that their design and specification maintenance clauses incorporate local regulatory requirements and that the maintenance intent of the deleted clause, I2.2 *Components of services*, is covered.

Structural design actions schedule

For the April 14 *Update*, NATSPEC has removed the **Structural design actions schedule** from the 0171 *General requirements* worksection. Feedback from a majority of subscribers, that they were not using the schedule and our concern that the structural design parameters included in the schedule were not of a general requirement nature, are the principle reasons for removing the schedule.

The design of any item, structural or non-structural, should be specific to the conditions where the item will be located. Providing general parameters for a site may not be suitable in specific locations. For example, the design of a flag pole located within an enclosed courtyard may have very different design parameters to that of a flag pole located on the roof of a multi-storey tower. The parameters for design should be determined by the designer, for the specific circumstances of the design in question, with assistance from the appropriate professional.



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