



NATSPEC October 2011 – Update summary

Globally

- Fire hazard property requirements reviewed and amended following the deletion of BCA Spec C1.10a.
- *Optional* text (blue font on a grey background) style added to the NATSPEC .dot file. This Hidden text style is used for items specified less frequently and is provided for incorporation into *Open* text where it is applicable to a project.
- *Optional* text **DESIGN** clauses added to Mechanical services worksections where appropriate for design and construct specifications.
- Manufacturer's and supplier's recommendations has been used as the preferred term throughout NATSPEC to mean recommendations, instructions, requirements, specifications (and similar expressions) provided in written or other form by the manufacturer relating to the suitability, use, installation, storage and/or handling of a product.

New generic worksections

- 0703 *Mechanical design and construct (Design)*.

Deleted Full worksections

- 0452 *Window hardware*.
- 0554 *Stairs, ladders and walkways*.

Deleted Basic worksections

- 0721b *Packaged air conditioning*.
- 0731b *Fans*.
- 0741b *Ductwork*.
- 0744b *Ductwork insulation*.
- 0771b *Automatic controls*.
- 0781b *Mechanical electrical*.
- 0791b *Mechanical commissioning*.
- 0792b *Mechanical maintenance*.
- 0943b *Switchboard components*.
- 0971b *Emergency evacuation lighting*.

New branded worksections

- 0310 *AFS LOGICWALL in concrete combined*.
- 0438 *KNAUF aggregate board cement cladding*.
- 0471 *KINGSPAN insulation and sarking membranes*.
- 0511 *KEYSTONE ACOUSTICS in lining*.
- 0522 *KNAUF in partitions - framed and lined*.
- 0531 *KNAUF in suspended ceilings*.
- 0541 *ASP FLOORS in access floors*.
- 0651 *DALSOUPLE resilient finishes*.

Renamed worksections

- 0383 *Sheet flooring and decking* (formerly 0383 *Decking and platform floors*).
- 0552 *Metalwork – fabricated* (formerly 0552 *Fabricated metalwork*).

Reclassified worksections

- 0160 *Quality (NATSPEC)* (formerly 0162 *Quality (NATSPEC)*).

Reissued worksections

- 0160 *Quality (NATSPEC)*.

- 0182 *Fire-stopping.*
- 0271 *Pavement base and subbase.*
- 0383 *Sheet flooring and decking.*
- 0655 *Timber flooring.*
- 0791 *Mechanical commissioning.*
- 0901 *Electrical systems.*
- 0911 *Cable support and duct systems.*
- 0951 *Lighting.*
- 0971 *Emergency evacuation lighting.*

Significantly revised worksections

- 0183 *Metals and prefinishes.*
- 0184 *Termite management.*
- 0256 *Landscape – establishment.*
- 0451 *Windows and glazed doors.*
- 0552 *Metalwork – fabricated.*
- 0732 *Air filters.*
- 0733 *Air coils.*

New TECHreport

- *Specifying design and construct Mechanical services.*

Deleted branded worksections

- 0193 *LATCHWATS MANSAFE® static line fall protection (Eurosafe solutions)*
- 0471 *DCT insulation and sarking membrane*
- 0531 *ARMSTRONG suspended ceilings.*
- 0541 *CUBIC access floors.*
- 0651 *ARMSTRONG resilient finishes.*

Clause changes

The following table summarises significant changes to the *Template* text of previously issued worksections (that is, text that will form part of a contract). It does not list:

- **Global** changes listed above.
- Minor typographical and spelling changes and corrections.
- Changes to the *Guidance* text.
- Changes to the **Referenced documents** list at the end of each worksection.
- Changes in the **Reissued worksections** listed above.
- Changes to Branded worksections.

Worksection	Clause No.	Clause Title	Amendment Summary
01 GENERAL			
0160 <i>Quality</i> (formerly 0162 <i>Quality</i>)			Reissued worksection.
0171 <i>General requirements</i>	1.5	INTERPRETATION	Hold points definition moved to <i>Optional</i> text. Manufacturer's and supplier's recommendations definition added as part of policy to standardise terms throughout NATSPEC. Professional engineer definition amended. Witness points moved to <i>Optional</i> text.
	3.5	SERVICES INSTALLATION	Dissimilar metals now at subclause Temporary cappings now at subclause level.
	3.9	PIPE SUPPORTS	Support spacing , Fuel gas: To

Worksection	Clause No.	Clause Title	Amendment Summary
			AS/NZS 5601.1.
0182 <i>Fire-stopping</i>			Reissued worksection.
0183 <i>Metals and prefinishes</i>			Worksection application amended.
	1.1	RESPONSIBILITIES	New clause.
	1.4	SUBMISSIONS	New clause.
	2.1	METALS	Coated steel Electrogalvanizing ferrous amended to Electrogalvanized (zinc) coating. Stainless steel Welded pipe applications amended.
	3.5	ANODISING	Sample New subclause.
	3.7	PREPAINTING	Equipment paint system AS 3750.16 citation added.
0184 <i>Termite management</i>			Worksection application amended.
	2.2	CHEMICAL SOIL BARRIERS	General Type testing: AS 3660.1 Appendix E citation added.
	3.2	CHEMICAL SOIL BARRIERS	Non-soil matrix barriers New subclause.
0185 <i>Timber products, finishes and treatment</i>	2.3	DURABILITY	Lyctid susceptible timbers.
02 SITE, URBAN AND OPEN SPACES			
0222 <i>Earthwork</i>	1.4	INTERPRETATION	Definitions Base: Definition amended to delete Portland cement. Rock: Definition amended to delete explosives.
0223 <i>Service trenching</i>	3.1	EXISTING SERVICES	Clause heading amended.
0224 <i>Stormwater – site</i>	2.1.	MATERIALS	GP or GB change to GP, GL or GB.
0252 <i>Landscape – soft surfaces</i>	2.1	GRASS	Synthetic grass Clause deleted.
	2.2	SYNTHETIC GRASS	New clause.
	4.2	SYNTHETIC GRASS	New clause with prompts.
0253 <i>Landscape – planting</i>	2.1	SOIL CONDITIONING COMPOST AND FERTILISER	Fertiliser schedule Sample values deleted.
0255 <i>Landscape – plant procurement</i>	2.1	BALANCE	Small container-grown plant table Table amended.
	4.1	TREE INSPECTION FORM	Below ground Alternative inspection methods moved to <i>Guidance</i> text.
	4.3	SCHEDULE OF RATES	Schedule now in <i>Guidance</i> text only.
0274 <i>Concrete pavement</i>	1.4	INTERPRETATION	Average ambient temperature: Definition added.
03 STRUCTURE			
0310 <i>Concrete - combined</i>	1.4	INTERPRETATIONS	Early age strength: Defined word.
0313 <i>Concrete post-tensioned</i>	1.1	RESPONSIBILITIES	Design Exposure classification to AS 3600 added.

Worksection	Clause No.	Clause Title	Amendment Summary
			Deflection to AS 3600 added.
0314 <i>Concrete in situ</i>	3.5	PLACING AND COMPACTION	Clause replaced with text from 0310 <i>Concrete – combined</i> worksection.
	3.6	PLACING IN HOT WEATHER	Clause deleted.
	4.1	SCHEDULES	Concrete properties schedule – performance 56 day shrinkage strain added to property schedule. Concrete properties schedule – prescriptive 56 day shrinkage strain added to property schedule. Material tests schedule Portland cement amended to general purpose.
0316 <i>Precast concrete</i>	2.1	CONSTITUENT MATERIALS	Text amended for uniform and consistent colour requirement.
	2.5	MISCELLANEOUS	Bearing pads Prompt for length added.
0331 <i>Brick and block construction</i>	2.1	MATERIALS	Mortar mix table Portland cement replaced with Cement (GP/GB).
	3.8	CONTROL OF MOVEMENT	Control joints Subclause name change.
0332 <i>Stone masonry</i>	2.3	COMPONENTS	Corrosion resistance and durability tables Updated.
0333 <i>Stone repair</i>	2.3	CAST STONE	New clause.
0334 <i>Block construction</i>	2.1	MATERIALS	Mortar mix table Updated.
	2.2	COMPONENTS	Corrosion resistance and durability tables Updated.
0335 <i>Brick construction</i>	2.1	MATERIALS	Mortar mix table Updated.
	2.2	COMPONENTS	Corrosion resistance and durability tables Updated.
0341 <i>Structural steel</i>	1.4	INTERPRETATIONS	New clause.
	1.9	SUBMISSIONS	Tests Acceptable evidence of conformance added.
0344 <i>Steel – hot-dip galvanized coatings</i>			Worksection endorsed by the Galvanizers Association of Australia (GAA).
0383 <i>Sheet flooring and decking (formerly 0383 Decking and platform floors)</i>			Reissued worksection.
04 ENCLOSURE			
0451 <i>Windows and glazed doors</i>	1.1	RESPONSIBILITIES	General Subclause amended.
	1.4	INTERPRETATION	Abbreviations

Worksection	Clause No.	Clause Title	Amendment Summary
			Subclause added Definitions Hardware: Definition added.
	1.5	SUBMISSIONS	Submission of samples of generic hardware requirement.
	2.12	HARDWARE	New clause.
	2.13	KEYING	New clause.
	3.4	HARDWARE	New clause.
	3.5	COMPLETION	Hardware New subclause. Keys New subclause. Maintenance manual Hardware requirements added. Warranties Hardware requirements added.
0452 Window hardware			Worksection deleted. Text incorporated into 0451 <i>Windows and glazed doors</i> .
0461 Glazing	1.1	RESPONSIBILITIES	Design and Performance added.
	1.2	CROSS REFERENCES	Design and Performance deleted.
0471 Insulation and sarking membranes	1.1	RESPONSIBILITIES	Amended to performance for the life of the warranty.
	1.4	INTERPRETATION	FBS-1: Definition added. Reflective insulation: Definition added.
	1.6	SUBMISSIONS	Fire hazard properties To INSULATION MATERIALS .
	2.1	INSULATION MATERIALS	Fire hazard properties Values amended.
0472 Acoustic insulation	1.6	SUBMISSIONS	Fire hazard properties To INSULATION MATERIALS .
	2.1	INSULATION MATERIALS	Fire hazard properties Values amended.
05 INTERIOR			
0511 Lining	2.1	MATERIALS AND COMPONENTS	Wet processed fibreboard (including hardboard) Bending strength: Deleted.
0522 Partitions – framed and lined	1.1	RESPONSIBILITIES	Requirement for linings amended to framed and lined partitions.
0525 Cubicle systems	1.3	INTERPRETATION	Dry processed fibreboard: Definition amended.
0531 Suspended ceilings - combined	1.5	SUBMISSIONS	Type tests Weighted suspended ceiling normalized difference: AS/NZS ISO 717.1 added. Weighted sound absorption coefficient: AS/NZS 1276.1 deleted.
0533 Suspended ceilings – panel systems	1.5	SUBMISSIONS	Type tests reports Name changed.
0534 Suspended ceilings – tiled	1.5	SUBMISSIONS	Type tests reports Name changed.
0551 Joinery	1.4	SUBMISSIONS	Subcontractors

Worksection	Clause No.	Clause Title	Amendment Summary
			Submission of names and contact details added. Sample table Timber stair finish added. Installation of proprietary items and Verification of timber added.
	1.5	STANDARDS	New clause.
	2.1	JOINERY MATERIALS AND COMPONENTS	Certification Plywood and wood panel certification prompts added. Stone facings Engineered stone slabs added.
	3.3	TIMBER STAIRS	New clause.
	3.4	TIMBER BALUSTRADES	New clause.
	4.1	TIMBER STAIRS	New clause.
	4.2	PROPRITARY TIMBER CIRCULAR STAIRS	New clause.
0552 <i>Metalwork - fabricated</i> (formerly 0552 <i>Fabricated metalwork</i>)	1.4	SUBMISSIONS	Subcontractors Submission of names and contact details added. Installation of proprietary items, Product samples and Samples schedule added.
	1.5	STANDARDS	New clause.
	3.6	PROPRIETARY STAIR SYSTEMS	New clause.
	3.7	FIXED STEEL LADDERS	New clause.
	3.8	PIPE RAIL BALUSTRADES	New clause.
	4.0	SELECTIONS	New schedules for steel stairs and balustrades.
0553 <i>Stainless steel benching</i>	1.4	SUBMISSIONS	Shop drawings Material, grade and finish added.
	2.1	MATERIALS	Plywood Surface requirements added.
	3.1	FABRICATION GENERALLY	Stainless steel welding AS/NZS 1554.6 Appendix B added.
	3.3	BOWL FABRICATION	Bowl size table to <i>Guidance</i> text. Size: AS 2887 added.
	3.7	INSTALLATION GENERALLY	Floor fixing Adjustable fixings added.
	3.8	COMPLETION	Warranties New subclause.
0554 <i>Stairs, ladders and walkways</i>			Worksection deleted. Text incorporated into the following worksections: -0551 <i>Joinery</i> : Timber stairs and balustrades. -0552 <i>Metalwork - fabricated</i> : Metal stairs, balustrades and handrails. -0612 <i>Cementitious toppings</i> : Granolithic toppings for stairs. -0651 <i>Resilient finishes</i> : Resilient finishes for stairs. -0652 <i>Carpets</i> : Carpet for stairs.
0571 <i>Workstations</i>	1.4	TESTS	Fire hazard properties added.

Worksection	Clause No.	Clause Title	Amendment Summary
	2.1	MATERIALS	Fire hazard Properties deleted.
0572 <i>Miscellaneous furniture</i>	1.4	TESTS	Fire hazard limits changes to Fire hazard properties.
	3.2	SCREENS	Screens fire hazard schedule deleted.
0574 <i>Window coverings</i>	2.1	MATERIALS	Fire hazard Properties prompt added.
06 FINISH			
0641 <i>Applied wall finishes</i>	2.1	GENERAL	Fire hazard properties added.
0651 <i>Resilient finishes</i>	2.4	SHEETS AND TILES	Rubber BS EN 1817 and BS EN 12199 added. Static control flooring Reference to PVC and linoleum deleted.
	3.3	SHEET AND TILE INSTALLATION	Tiles set out from centre of room.
	3.5	SHEETING	Formerly VINYL SHEETING. Conductive flooring formerly Static control flooring.
0652 <i>Carpets</i>	1.5	TESTS	Tests table To water: Amended to AS 2001.4 E01.
	3.5	STAIRS	Concrete stairs and Timber stairs added.
0654 <i>Engineered panel flooring</i>	1.3	INTERPRETATION	Definitions Feature: Definition amended. Sprung floor: Definition added. Engineered floor panels: Definition added. Underlay: Definition added.
	1.5	TOLERANCES	New clause.
	1.6	SUBMISSIONS	Tests added. Acoustic underlay added.
	3.1	PREPARATION	Substrates revised. Moisture content Conformance requirements added. Acclimatisation added.
	3.2	LAYING	Room environment and Trial set-out added.
	4.1	SCHEDULES	Critical radiant flux and Environmental factors added to schedules.
0655 <i>Timber flooring</i>			Reissued worksection.
0657 <i>Resin based seamless flooring</i>	1.5	SUBMISSIONS	Tests Critical radiant flux and smoke development tests deleted.
0673 <i>Powder coatings</i>	1.4	INTERPRETATION	Definitions HSS: Definition deleted. Powder coating: Definition amended.
	2.1	PREPARATION	Substrate pre-treatment and application added.

Worksection	Clause No.	Clause Title	Amendment Summary
07 MECHANICAL			
0702 <i>Mechanical design and install</i>	2.1	DESIGN	Temperature variation Temperature difference limit changed to 2°C from 3°C.
	12.6	REGULAR MAINTENANCE	To the Maintenance requirements schedule .
0703 <i>Mechanical design and construct</i>			New worksection
0711 <i>Chillers – combined</i>	3.2	INSTALLATION	Refrigerant pressure relief revised. AS/NZS 1677.2 added.
0716 <i>Chillers – centrifugal</i>	3.2	INSTALLATION	– Refrigerant pressure relief subclause amended.
	4.1	CHILLER SCHEDULES	– Adapting the Chiller schedules for design and construct projects added.
0717 <i>Chillers – water cooled screw</i>	3.2	INSTALLATION	Refrigerant pressure relief revised. AS/NZS 1677.2 added.
0718 <i>Chillers – air cooled screw and scroll</i>	3.2	INSTALLATION	Refrigerant pressure relief revised. AS/NZS 1677.2 added.
0721 <i>Packaged air conditioning</i>	1.1	RESPONSIBILITIES	Outdoor condensing units.
	1.4	INTERPRETATION	Abbreviations VRF: Abbreviation added. Definitions Variable refrigerant flow system added.
	2.1	GENERAL	Variable refrigerant flow systems added.
	2.14	VARIABLE REFRIGERANT FLOW (VRF) SYSTEMS	New clause.
	4.2	COMPUTER ROOM AIR CONDITIONING UNITS	Variable refrigerant flow outdoor unit schedule and VRF indoor unit schedule and added.
0721b <i>Packaged air conditioning</i>			Basic worksection deleted.
0724 <i>Air handling plant – combined</i>	2.14	ROOM FAN COIL UNITS	Condensate trays Material performance: AS 1530.3 added.
0726 <i>Air handling plant – minor</i>	2.3	ROOM FAN COIL UNITS	Condensate trays Material performance: AS 1530.3 added.
0731b <i>Fans</i>			Basic worksection deleted.
0732 <i>Air filters</i>	1.2	CROSS REFERENCES	<i>Ductwork</i> added.
	2.3	DRY MEDIA FILTERS (TYPE 1) AND VISCOUS IMPINGEMENT FILTERS (TYPE 2)	Holding frames Material: Deleted.
	4.1.	AIR FILTERS	Gas phase absorber cells schedule Final filter system resistance: Filter added.
0733 <i>Air coils</i>	1.2	DESIGN	New clause.
	2.2	WATER COILS	Headers Vent and drain size added.
	2.4	ADDITIONAL COIL TREATMENT	New clause.

Worksection	Clause No.	Clause Title	Amendment Summary
	3.1	PROTECTION	Refrigerant coils: text expanded.
0741b <i>Ductwork</i>			Basic worksection deleted.
0744 <i>Ductwork insulation</i>	1.4	INTERPRETATIONS	Polyester insulation: Definition amended.
0744b <i>Ductwork insulation</i>			Basic worksection deleted.
0746 <i>Air grilles</i>	1.1	GENERAL	DESIGN clause now <i>Optional</i> text.
	1.5	SUBMISSIONS	Product data Air diffusion equipment: AHRI 890 deleted.
	2.3	AIR GRILLE TYPES	Luminaire air diffuser Plenum: now <i>Optional</i> text.
0751 <i>Mechanical piping</i>	1.2	DESIGN	New clause.
0754 <i>Liquid fuels</i>	2.1	STORAGE TANKS	Standard: AS 4897 added.
0761 <i>Refrigeration</i>	3.10	SAFETY	Refrigerant pressure relief valve amended.
0762 <i>Cool rooms</i>	1.6	SUBMISSIONS	Fire hazard properties Values amended.
	2.1	GENERAL	Fire hazard properties Values amended.
0771 <i>Automatic controls</i>	1.3	STANDARDS	Reference to Annex J deleted.
	1.5	SUBMISSIONS	Reference to Annex L deleted.
	2.3	DIGITAL SYSTEM CONTROL INTERFACE	Reference to Annex J and L deleted.
0771b <i>Automatic controls</i>			Basic worksection deleted.
0773 <i>Building management systems</i>	2.3	NETWORK ARCHITECTURE	Reference to Annex J deleted.
0781 <i>Mechanical electrical</i>	3.1	GENERAL	Standards Reference to Wiring enclosures and cable support systems deleted.
0781b <i>Mechanical electrical</i>			Basic worksection deleted.
0791 <i>Mechanical commissioning</i>			Reissued worksection.
0791b <i>Mechanical commissioning</i>			Basic worksection deleted.
08 HYDRAULIC			
0813 <i>Water heaters</i>	2.5	HEAT PUMP WATER HEATERS	Standard AS/NZS 5125.1 added.
0823 <i>Cold and heated water</i>	3.2	PIPING INSULATION	Fire hazard properties Values amended.
0825 <i>Rainwater storage systems</i>	2.1	RAINWATER TANKS	Warranty added.
0826 <i>Greywater systems</i>	2.3	TANKS	Screen requirements added.
0831 <i>Hydrants</i>	2.2	FIRE HYDRANT SYSTEMS	AS/NZS 2638.1 and AS/NZS 2638.2 reference amended.
09 ELECTRICAL			
0911 <i>Cable support</i>			Reissued worksection.

Worksection	Clause No.	Clause Title	Amendment Summary
<i>and duct systems</i>			
0943b <i>Switchboard components</i>			Basic worksection deleted.
0951 <i>Lighting</i>			Reissued worksection.
0962 <i>Television distribution systems</i>	2.5	OUTLETS	IEC 60169.2 withdrawn.
0971 <i>Emergency evacuation lighting</i>			Reissued worksection.
0971b <i>Emergency evacuation lighting</i>			Basic worksection deleted.