



NATSPEC Worksection Abstracts

OCTOBER 2019

The NATSPEC Worksection Abstracts booklet includes the abstracts of all current NATSPEC worksections. Each abstract comprises a summary of the worksection's content and application to help you select the most appropriate worksections for your project specification.

Using this booklet

The documents included in this booklet can help you select the most appropriate worksections for your project:

- Use the NATSPEC Package Definitions to check that you are using the appropriate package for your needs.
- The National Classification System provides an overview of all worksection classification locations in the NATSPEC and AUS-SPEC system.
- Use the National Worksection Matrix to check which worksections are included in your package.
- The NATSPEC Worksection Abstracts summarise the content and application of each worksection.

Note: This booklet is for NATSPEC worksections only. It does not include abstracts for AUS-SPEC worksections. For brevity it also excludes the abstracts of the reduced content basic worksections and Branded worksections.

The latest abstracts for all worksections are listed at www.natspec.com.au under each specification package description.

Advantages of using a Branded worksection

A NATSPEC Branded worksection is a technical worksection produced in NATSPEC format by NATSPEC editors in conjunction with a Product Partner. Branded worksections are based on and aligned with NATSPEC generic worksections and meet the same levels of quality.

Branded worksections sit within the National Classification System and can be selected when compiling your specification using SPECbuilder – NATSPEC's online specification compilation tool.

Branded worksections can also be downloaded for free from www.natspec.com.au.

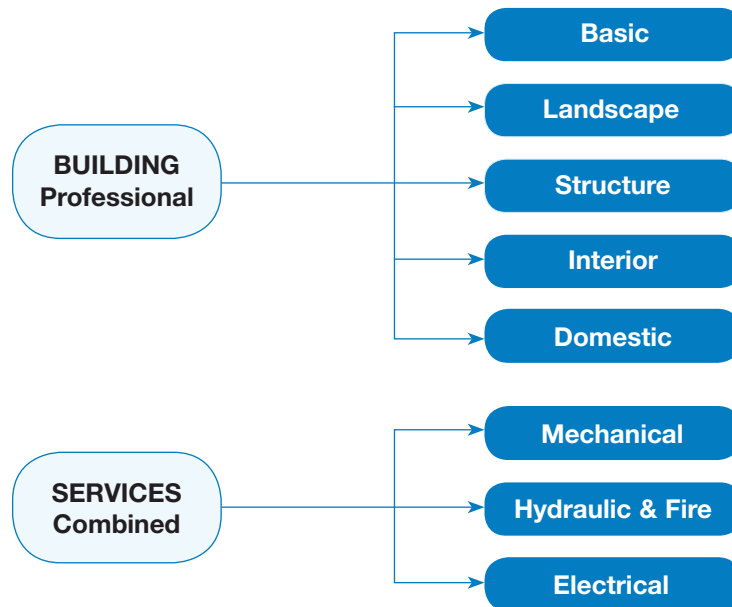
Advantages of using a NATSPEC Branded worksection for your next project:

- **SAVE TIME:** Branded worksections already contain all the information you need for your specification.
- **REDUCE RISK:** Branded worksections guarantee correct specification for your selected products.
- **MINIMISE SUBSTITUTION:** Branded worksections minimise the possibility of having your selected product substituted.



NATSPEC Package Definitions

Do you have the appropriate package? If the package appears inappropriate, check the *National Worksection Matrix* or give NATSPEC a call on 1300 797 142



PACKAGE	APPLICATION
BUILDING Professional	<p>The NATSPEC content is informed by the National Construction Code. NATsource is provided for checking the currency of all Standards and publications throughout the <i>Normal</i> style text in NATSPEC.</p> <p>For architects and building designers engaged on all building project types. BUILDING Professional is NATSPEC's definitive building specification containing over 150 worksections. It covers site, architectural, interiors and landscaping, and provides design and install worksections for mechanical, hydraulic, electrical and fire services. Demolition, tendering and contract preliminaries are also covered. In addition, BUILDING Professional includes the reduced content BUILDING Basic worksections, the BUILDING Domestic specification and access to the DOMESTIC online specification. The reduced content BUILDING Basic worksections may be selected for the less complicated parts of specific projects.</p>
BUILDING Basic	<p>For architects and building designers, this is a cut-down version of the BUILDING Professional package. It is aimed at simple building projects requiring less technical content on products, execution and scheduling. It contains approximately 90 worksections selected from the BUILDING Professional package. Of these, 40 have reduced content compared to BUILDING Professional, relating to inspections, sampling, testing and shop drawing submissions.</p>
BUILDING Landscape	<p>For engineers and landscape architects engaged on site preparation works and all works external to the building and within the site boundary, together with design and installation work for mechanical, hydraulic and electrical services. Demolition, tendering and contract preliminaries are also covered. It is not applicable to works outside the site boundary, such as vehicular crossings and works within local or state government road reserves.</p>
BUILDING Structure	<p>For engineers engaged on structural work intended for occupation. It covers materials for components that are necessary for the adequate strength and appropriate serviceability behaviour of buildings. It is not intended that the worksections should apply to civil engineering structures, such as bridges, dams and roads.</p>
BUILDING Interior	<p>For architects, building designers and interior designers engaged on comprehensive interior projects. It covers interior building and finishing work, together with design and installation work for mechanical, hydraulic, electrical and fire services. Demolition (interior), tendering and contract preliminaries are also covered.</p>
BUILDING Domestic	<p>For architects and building designers constructing, extending or renovating uncomplicated single detached dwellings. It covers site and architectural work, and design and installation work for mechanical, hydraulic and electrical services.</p>
SERVICES Combined	<p>For engineers working on projects of all complexities. It contains all material in each of the SERVICES Mechanical, Hydraulic & Fire and Electrical specification packages. Demolition, tendering and contract preliminaries are also covered.</p>
SERVICES Mechanical	<p>For engineers and mechanical consultants engaged on the mechanical services of projects of all complexities. Demolition, tendering and contract preliminaries are also covered.</p>
SERVICES Hydraulic & Fire	<p>For engineers, hydraulic and fire consultants engaged on the hydraulic installations and fire services installations on small to large projects. It includes the most commonly used hydraulic services, fire services and components. Demolition, tendering and contract preliminaries are also covered.</p>
SERVICES Electrical	<p>For engineers and electrical consultants engaged on the electrical installations of projects of all complexities.</p>

GETTING HELP

INTRODUCTION

This TECHnote summarises the variety of ways in which NATSPEC provides help to specification writers.

NATSPEC *Guidance*

NATSPEC worksections include extensive *Guidance* text with suggestions on filling in prompts, alternatives, and background material. *Guidance* is in Microsoft Word hidden text format which can be turned on or off, and appears like this:

NATSPEC does not recommend the use of SCOPE OF WORK clauses. If you wish to include such a general description you may add it here, or in the corresponding location of selected worksections.

If you work with an office master, you may find it convenient to add your own guidance notes using NATSPEC's hidden text styles.

Hidden text and other features that can help you in your specification writing are accessed via the NATSPEC toolbar. See sidebar.

NATSPEC *Optional* style text

Some worksections include *Optional style text in this font (blue with a grey background)* that covers items specified less frequently. It is also a Microsoft Word hidden text format which can be incorporated into *Normal* style text, where it is applicable to a project, by highlighting the text and changing the style and format.

NATsource

NATsource lists in excess of 1200 documents cited in the specification packages. Use it to check document titles, currency, content and publishers. Access NATsource via SPECbuilder/Resources /Standards Info. Changes to cited standards are summarised in *Standards revising NATSPEC and AUS-SPEC* which is available on the NATSPEC website under Technical Resources/Standards.

NATSPEC TECHnotes, TECHreports and AUS-SPEC TECHguides

TECHnotes provide guidance of a more general nature that either relates to several worksections, or does not fit into the normal worksection structure, TECHreports provide more detailed information on specification issues and TECHguides provide guidance on compiling contract documentation for local government projects.

All these documents continue to be developed and updated. The latest versions are available in the Technical Resources area of the NATSPEC website or via the Resources link in SPECbuilder Live.

NATSPEC Website

NATSPEC's website has a range of material including:

- Details of NATSPEC specification packages, including abstracts of worksections.
- A link to SPECbuilder Live.
- Links to Product Partners' websites arranged by worksection.
- A link to the National Construction Product Register (NCPR), a searchable database of construction products with evidence of conformity to Australian and International standards. See www.natspec.com.au.
- Notification of latest changes to standards affecting NATSPEC worksections.
- Information on publications relating to specification writing.
- Answers to frequently asked questions (FAQs) on specification writing, purchasing NATSPEC, getting started with NATSPEC and word processing.

NATSPEC BIM Portal

The BIM Portal is home to the *NATSPEC National BIM Guide* and related documents. It also includes resources and tools to assist the implementation of BIM in the construction industry. To go to the BIM Portal click on the *NATSPEC BIM* logo on the NATSPEC website.

NATSPEC Training

NATSPEC provides training in specification writing-related subjects.

For details of monthly *Getting started with NATSPEC* webinars and annual training courses in venues around Australia see www.natspec.com.au.

Videos of previous courses are also available on the website. Subscribers are notified of upcoming training courses.

Relevant Publications



Specifying Architecture - a guide to professional practice

NATSPEC assistance

NATSPEC does not provide a design or specification service but we can assist with specification writing techniques and dealing with problems using SPECbuilder Live and NATSPEC in Microsoft Word.

If you have problems finding what you want, feel free to contact us directly.

CONTACT INFORMATION

NATSPEC
Level 4
263 Clarence Street
SYDNEY NSW 2000
Australia
PHONE 1300 797 142
FAX 1300 797 143
EMAIL mail@natspec.com.au
WEB www.natspec.com.au

NATIONAL CLASSIFICATION SYSTEM - OCTOBER 2019

Refer to the National Worksection Matrix for the worksections included in each NATSPEC/AUS-SPEC package: full, basic/rural cut-down version and branded worksections. See www.natspec.com.au. [Square brackets] indicate that no generic worksection is available. A NATSPEC branded worksection may be available.

00 PLANNING AND DESIGN (AUS-SPEC)

- 001 General**
- 0010 Quality requirements for design
- 0012 Waterfront development
- 0013 Bushfire protection (Design)
- 002 Open space**
- 0021 Site regrading
- 0022 Control of erosion and sedimentation (Design)
- 004 Road reserve**
- 0041 Geometric rural road design
- 0042 Pavement design
- 0043 Subsurface drainage (Design)
- 0044 Pathways and cycleways (Design)
- 005 Road reserve - rural**
- 0051 Geometric rural road design - sealed
- 0052 Geometric rural road design - unsealed
- 0053 Rural pavement design - sealed
- 0054 Rural pavement design - unsealed
- 006 Bridges**
- 0061 Bridges and related structures
- 007 Public utilities**
- 0071 Water supply - reticulation (Design)
- 0072 Water supply - pump stations (Design)
- 0074 Stormwater drainage (Design)
- 0076 Sewerage systems - reticulation (Design)
- 0077 Sewerage systems - pump stations (Design)

01 GENERAL

- 011 Documentation**
- 012 Tendering**
- 0120 Pre-tendering contract preparation (AUS-SPEC)
- 0121 Tendering
- 0122 Information for tenderers (AUS-SPEC)
- 0123 Conditions of tendering (AUS-SPEC)
- 0124 Tender submission documents (AUS-SPEC)
- 0125 Standard contract checklists (AUS-SPEC)
- 0126 Period supply and service checklists (AUS-SPEC)
- 0127 Commissioning - information
- 013 Generic preliminaries**
- 0131 Preliminaries (Generic)
- 0133 Preliminaries (Interior and alterations)
- 0134 General requirements (Supply) (AUS-SPEC)
- 0135 General requirements (Services) (AUS-SPEC)
- 0136 General requirements (Construction) (AUS-SPEC)
- 0138 Multiple contracts
- 014 Contract preliminaries**
- 0140 Preliminaries - ABIC BW-2018C
- 0141 Preliminaries - ABIC MW-2018
- 0142 Preliminaries - ABIC SW-2018
- 0143 Preliminaries - AS 2124
- 0144 Preliminaries - AS 4000
- 0145 Preliminaries - AS 4905
- 0146 Preliminaries - AS 4902
- 0147 Conditions of contract (AUS-SPEC)
- 0148 Preliminaries - ABIC EW-1
- 015 Schedule of rates (AUS-SPEC)**
- 0152 Schedule of rates (Construction)
- 0153 Schedules - period supply and service
- 016 Quality assurance**
- 0160 Quality
- 0161 Quality management (Construction) (AUS-SPEC)
- 0162 Quality (Supply) (AUS-SPEC)
- 0163 Quality (Delivery) (AUS-SPEC)
- 0164 Commissioning
- 0167 Integrated management (AUS-SPEC)
- 017 General requirements**
- 0171 General requirements

- 0172 Environmental management
- 0173 Environmental management (AUS-SPEC)
- 018 Common requirements**
- 0181 Adhesives, sealants and fasteners
- 0182 Fire-stopping
- 0183 Metals and prefinishes
- 0184 Termite management
- 0185 Timber products, finishes and treatment
- 019 Sundry installations**
- 0191 Sundry items
- 0192 [Structural components]
- 0193 Building access safety systems
- 0194 [Door seals and window seals]
- 0195 [Tactile indicators and stair edgings]

02 SITE, URBAN AND OPEN SPACES

- 020 Demolition**
- 0201 Demolition
- 0202 Demolition (Interior and alterations)
- 022 Preparation and groundwork**
- 0221 Site preparation
- 0222 Earthwork
- 0223 Service trenching
- 0224 Stormwater - site
- 024 Landscape structures**
- 0241 Landscape - walling and edging
- 0242 Landscape - fences and barriers
- 0243 Landscape - water features
- 025 Landscape cultivation**
- 0250 Landscape - combined
- 0251 Landscape - soils
- 0252 Landscape - natural grass surfaces
- 0253 Landscape - planting
- 0254 Irrigation
- 0255 Landscape - plant procurement
- 0256 Landscape - establishment
- 0257 Landscape - road reserve and street trees (AUS-SPEC)
- 0259 Landscape - maintenance
- 026 Landscape finishes**
- 0261 Landscape - furniture and fixtures
- 0262 External sports and playground surfacing
- 027 Pavements**
- 0271 Pavement base and subbase
- 0272 Asphalt
- 0273 Sprayed bituminous surfacing
- 0274 Concrete pavement
- 0275 Paving - mortar and adhesive bed
- 0276 Paving - sand bed
- 0277 Pavement ancillaries
- 0278 Granular surfaces
- 0279 Paving - on pedestals
- 028 Pathways (AUS-SPEC)**
- 0281 Bushfire perimeter tracks (Construction)
- 0282 Pathways and cycleways (Construction)
- 029 Retaining walls (AUS-SPEC)**
- 0292 Masonry walls
- 0293 Crib retaining walls
- 0294 Gabion walls and rock filled mattresses

03 STRUCTURE

- 030 Foundations**
- 0301 Piling
- 031 Concrete - in situ**
- 0310 Concrete - combined
- 0311 Concrete formwork
- 0312 Concrete reinforcement
- 0313 Concrete post-tensioned
- 0314 Concrete in situ
- 0315 Concrete finishes
- 0318 Shotcrete
- 0319 Auxiliary concrete works (AUS-SPEC)
- 032 Concrete - systems**
- 0321 Precast concrete
- 0322 Tilt-up concrete
- 0325 [Concrete protection]
- 033 Masonry**
- 0331 Brick and block construction
- 0332 Stone masonry

- 0333 Stone repair
- 0334 Block construction
- 0335 Brick construction
- 034 Steel**
- 0341 Structural steelwork
- 0342 Light steel framing
- 0343 Tensioned membrane structures
- 0344 Steel - hot-dip galvanized coatings
- 0345 Steel - protective paint coatings
- 0346 Structural fire protection systems
- 036 Earth**
- 0361 Monolithic stabilised earth walls
- 0362 Mud brick walls
- 0363 Straw bale walls
- 038 Timber**
- 0381 Structural timber
- 0382 Light timber framing
- 0383 Sheet flooring and decking

04 ENCLOSURE

- 041 Tanking and damp-proofing**
- 0411 Waterproofing - external and tanking
- 042 Roofing**
- 0421 Roofing - combined
- 0423 Roofing - profiled sheet metal
- 0424 Roofing - seamed sheet metal
- 0425 Roofing - shingles and shakes
- 0426 Roofing - slate
- 0427 Roofing - tiles
- 0428 [Roofing - insulated panel systems]
- 0429 [Translucent roofing]
- 043 Cladding**
- 0431 Cladding - combined
- 0432 Curtain walls
- 0433 Stone cladding
- 0434 Cladding - flat sheets and panels
- 0435 Cladding - planks and weatherboards
- 0436 Cladding - profiled and seamed sheet metal
- 0437 Cladding - insulated panel systems
- 0438 [Cladding - cement board]
- 0439 [Cladding - systems]
- 045 Doors and windows**
- 0451 Windows and glazed doors
- 0453 Doors and access panels
- 0454 Overhead doors
- 0455 Door hardware
- 0456 Louvre windows
- 0457 External screens
- 0458 [Automatic doors]
- 046 Glass**
- 0461 Glazing
- 0462 Structural silicone glazing
- 0463 Glass blockwork
- 0466 Structural glass assemblies
- 0467 Glass components
- 047 Insulation**
- 0471 Thermal insulation and pliable membranes
- 0472 Acoustic insulation
- 0473 [Acoustic floor underlays]

05 INTERIOR

- 051 Linings**
- 0511 Lining
- 052 Partitions**
- 0520 Partitions - combined
- 0521 Partitions - demountable
- 0522 Partitions - framed and lined
- 0523 Partitions - brick and block
- 0524 Partitions - glazed
- 0525 Cubicle systems
- 0526 Terrazzo precast
- 0527 Room dividers
- 0528 [Partitions - composite systems]
- 053 Ceilings**
- 0531 Suspended ceilings - combined
- 0532 Suspended ceilings - flush lined
- 0533 Suspended ceilings - ceiling units

NATIONAL CLASSIFICATION SYSTEM - OCTOBER 2019

Refer to the National Worksection Matrix for the worksections included in each NATSPEC/AUS-SPEC package: full, basic/rural cut-down version and branded worksections. See www.natspec.com.au. [Square brackets] indicate that no generic worksection is available. A NATSPEC branded worksection may be available.

054 Access floors

0541 Access floors

055 Fixtures

0551 Joinery

0552 Metalwork - fabricated

0553 Stainless steel benching

0554 [Handrails, guardrails, balustrades and other barriers]

057 Furniture and furnishings

0571 Workstations

0572 Miscellaneous furniture

0573 Fire extinguishers and blankets

0574 Window coverings

0575 Tapestries

058 Signs and features

0581 Signage

06 FINISH

061 Trowelled and sprayed coatings

0611 Rendering and plastering

0612 Cementitious toppings

0613 Terrazzo in situ

062 Wet areas

0621 Waterproofing - wet areas

063 Tiling

0631 Ceramic tiling

0632 Stone and terrazzo tiling

064 Wall surfacing

0641 Applied wall finishes

0642 Wallcoverings

065 Floor surfacing

0651 Resilient finishes

0652 Carpets

0654 Engineered panel flooring

0655 Timber flooring

0656 Floor sanding and finishing

0657 Resin based seamless flooring

067 Painting

0671 Painting

0672 Textured and membrane coatings

0673 Powder coatings

07 MECHANICAL

070 Mechanical general

0700 Reference - Mechanical services

0701 Mechanical systems

0702 Mechanical design and install

0703 Mechanical design and construct (Design)

071 Water plant

0711 Chillers - combined

0712 Water heating boilers

0713 Cooling towers

0714 Mechanical pumps

0715 Tanks, vessels and heat exchangers

0716 Chillers - centrifugal

0717 Chillers - water cooled screw

0718 Chillers - air cooled screw and scroll

0719 Chillers - absorption

072 Air plant

0721 Packaged air conditioning

0722 Room air conditioners

0723 Evaporative air coolers

0724 Air handling plant - combined

0725 Air handling plant - built up

0726 Air handling plant - minor

0727 Air handling plant - packaged

073 Air handling components

0731 Fans

0732 Air filters

0733 Air coils

0734 Humidifiers

0735 [Natural ventilation and smoke management]

0736 Space heating

074 Ductwork and components

0741 Ductwork

0744 Ductwork insulation

0745 Attenuators and acoustic louvres

0746 Air grilles

0747 Variable air volume terminals

0748 Chilled beams

075 Piping

0751 Mechanical piping

0752 Mechanical piping insulation

0753 Water treatment

0754 Liquid fuels

0755 Medical gas systems

0756 [Industrial gas systems]

0757 [Compressed air]

076 Refrigeration

0761 Refrigeration

0762 Cool rooms

077 Control

0771 Automatic controls

0772 Automatic controls - minor

0773 Building management systems

078 Mechanical electrical

0781 Mechanical electrical

0782 Mechanical electrical - minor

0784 Motors and starters

079 Mechanical commissioning and maintenance

0791 Mechanical commissioning

0792 Mechanical maintenance

08 HYDRAULIC

080 Hydraulic general

0800 Reference - Hydraulic services

0801 Hydraulic systems

0802 Hydraulic design and install

081 Hydraulic components

0811 Sanitary fixtures

0812 Tapware

0813 Water heaters

0814 Hydraulic pumps

0815 Boiling, chilled, and filtered water dispensers

0816 Tanks

082 Hydraulic systems

0821 Stormwater - buildings

0822 Wastewater

0823 Cold and heated water

0824 Fuel gas

0825 Rainwater storage systems

0826 Greywater systems

0827 [Processed water]

088 Hydraulic electrical

0882 Hydraulic electrical - minor

089 Hydraulic commissioning and maintenance

0891 Hydraulic maintenance

09 ELECTRICAL

090 Electrical general

0900 Reference - Electrical services

0901 Electrical systems

0902 Electrical design and install

091 Electrical equipment

0911 Cable support and duct systems

092 Power systems

0921 Low voltage power systems

093 Power supply equipment

0931 Power generation - engine driven

0933 Power generation - photovoltaic

0937 Uninterruptible power supply

094 Power distribution equipment

0941 Switchboards - proprietary

0942 Switchboards - custom-built

0943 Switchboard components

0947 Power factor correction

095 Lighting systems

0951 Lighting

096 Communication systems

0961 Telecommunications cabling

0962 Television distribution systems

0963 Sound systems

097 Safety systems

0971 Emergency evacuation lighting

0972 Fire detection and alarms

0973 Emergency warning and intercommunication

0979 Lightning protection

098 Security systems

0981 Electronic security

099 Electrical commissioning and maintenance

0991 Electrical maintenance

10 FIRE

100 Fire general

1000 Reference - Fire services

1001 Fire services systems

1002 Fire services design and install

101 Fire components

1014 Fire services pumps

1016 Fire services tanks

103 Wet fire suppression systems

1030 Combined wet fire suppression systems

1031 Hydrants

1032 Hose reels

1033 Sprinklers

104 Dry fire suppression systems

1041 Gaseous fire suppression systems

105 Chemical fire suppression system

1051 Liquid chemical fire suppression systems

107 Fire safety systems

1072 Fire detection and alarms

1073 Emergency warning and intercommunication

108 Fire electrical

1082 Fire services electrical - minor

109 Fire commissioning and maintenance

1091 Fire services maintenance

11 CONSTRUCTION - ROAD RESERVE (AUS-SPEC)

110 General

1101 Traffic management

1102 Control of erosion and sedimentation (Construction)

111 Formation preparation

1111 Clearing and grubbing

1112 Earthworks (Road reserve)

1113 Stabilisation

112 Rainwater collection

1121 Open drains

1122 Kerbs and channels (gutters)

113 Rigid pavements

1130 Rural concrete base

1131 Roller compacted concrete subbase

1132 Lean mix concrete subbase

1133 Plain and reinforced concrete base

1134 Steel fibre reinforced concrete base

1135 Continuously reinforced concrete base

1136 Cold milling of asphalt and base course

114 Flexible pavements

1140 Wearing course, base and sub-base - unsealed

1141 Flexible pavement base and subbase

1142 Cold mix asphalt

1143 Sprayed bituminous surfacing

1144 Asphalt (Roadways)

1145 Segmental paving

1146 Microsurfacing

1147 Sprayed preservation surfacing

115 Road openings and restorations

1151 Road openings and restoration

1152 Road openings and restoration (Utilities)

117 Pavement moisture control

1171 Subsurface drainage

1172 Subsoil and formation drains

1173 Pavement drains

1174 Drainage blankets

119 Traffic facilities

1191 Pavement markings

1192 Signposting

1193 Guide posts

1194 Non-rigid road safety barrier systems

1195 Rigid road safety barrier systems

1196 Boundary fencing for road reserves

1197 Street and public lighting

NATIONAL CLASSIFICATION SYSTEM - OCTOBER 2019

Refer to the National Worksection Matrix for the worksections included in each NATSPEC/AUS-SPEC package: full, basic/rural cut-down version and branded worksections. See www.natspec.com.au. [Square brackets] indicate that no generic worksection is available. A NATSPEC branded worksection may be available.

13 CONSTRUCTION - PUBLIC UTILITIES (AUS-SPEC)

134 Water supply

- 1341 Water supply - reticulation (Construction)
- 1342 Water supply - pump stations (Construction)

135 Water cycle management

- 1351 Stormwater drainage (Construction)
- 1352 Pipe drainage
- 1353 Precast box culverts
- 1354 Drainage structures

136 Sewerage systems

- 1361 Sewerage systems - reticulation (Construction)
- 1362 Sewerage systems - pump stations (Construction)

139 Others

- 1391 Service conduits
- 1392 Trenchless conduit installation

14 MAINTENANCE AND OPERATIONS - URBAN AND OPEN SPACES (AUS-SPEC)

140 General

- 1401 General requirements - parks and open space (Maintenance)
- 1402 Contract schedules - parks and open space (Maintenance)
- 1403 Parks and open space maintenance plan (PMP)
- 1404 Annexures to parks and open space maintenance plan (PMP)

141 Horticultural

- 1411 Street landscaping
- 1412 Grass mowing in road reserves
- 1413 Tree and vegetation control in road reserves
- 1414 Weed control in road reserves
- 1415 Weed control
- 1416 Planting of annuals and trees
- 1417 Care of trees and shrubs
- 1418 Gardens
- 1419 Care of grass and turf
- 1420 Grass mowing
- 1421 Native bushland
- 1422 Dunal areas
- 1423 Pest control

143 Pathways

- 1431 Footpath paving repairs
- 1432 Gravel footpath repairs
- 1433 Footpath and kerb ramp repairs
- 1434 Bushfire perimeter track repairs

144 Pavements

- 1441 Bituminous surfacing repairs
- 1442 Boat ramps

146 Enclosures

- 1461 Swimming enclosures
- 1462 Boundary fence repair

147 Equipment

- 1471 Barbecues
- 1472 Drinking fountains
- 1473 Barriers
- 1474 Lighting
- 1475 Playground equipment
- 1476 Park furniture
- 1477 Sport ground facilities
- 1478 Public art

148 Operation - open spaces

- 1481 Accident repairs (Recoverable)
- 1482 Accident repairs (Non recoverable)
- 1483 Emergency call out
- 1484 Storm damage response

149 Operation - cleaning and waste management

- 1491 Open space litter collection
- 1492 Open space graffiti removal
- 1493 Beach cleaning

15 MAINTENANCE AND OPERATIONS - BUILDINGS (AUS-SPEC)

150 General

- 1500 NATSPEC Maintenance reference
- 1501 General requirements - building and facility (Maintenance)
- 1502 Maintenance schedules - building and facility
- 1503 Building and facility maintenance plan (BFMP)
- 1504 Annexures to building and facility maintenance plan (BFMP)

153 Structure

- 1530 External works
- 1531 Floors
- 1532 Walls
- 1533 Doorways and windows
- 1534 Ceilings
- 1535 Roofing

157 Services

- 1571 Mechanical systems - maintenance
- 1572 Hydraulic systems - maintenance
- 1573 Electrical systems - maintenance

158 Operation - buildings

- 1581 External building surveillance
- 1582 Accident repairs (Recoverable)
- 1583 Emergency call out
- 1584 Storm damage response
- 1585 External cleaning
- 1586 Internal cleaning
- 1587 Sanitary cleaning
- 1588 Window cleaning
- 1589 Cleaning - blinds and fire proofing of curtains

16 MAINTENANCE AND OPERATIONS - ROAD RESERVE (AUS-SPEC)

160 General

- 1601 General requirements - road reserve (Maintenance)
- 1602 Maintenance schedules - road reserve
- 1603 Road reserve maintenance plan (RMP)
- 1604 Annexures to road reserve maintenance plan (RMP)

161 Pavement

- 1611 Pavement sweeping
- 1612 Auxiliary work for reseals
- 1613 Repairs to bituminous surfacing
- 1614 Crack sealing
- 1615 Local shape correction
- 1616 Grading unsealed roads
- 1617 Resheeting unsealed roads
- 1618 Heavy patching
- 1619 Minor patching
- 1620 Pothole repair
- 1621 Concrete pavement repairs
- 1622 Concrete slab stabilisation
- 1623 Emergency pavement repairs

163 Shoulder

- 1631 Edge break repairs
- 1632 Grading unsealed shoulders
- 1633 Resheeting unsealed shoulders
- 1634 Local scour repairs

164 Roadside

- 1641 Kerb and channel (gutter) repairs
- 1642 Traffic islands

165 Pavement moisture control

- 1651 Clear road reserve subsoil drains
- 1652 Clear road reserve open drains

167 Traffic facilities

- 1671 Road reserve boundary fence repairs
- 1672 Road reserve fences and handrails
- 1673 Street seats and bus shelters
- 1674 Carriageway delineators
- 1675 Road reserve guard fence
- 1676 Road reserve signs
- 1677 Road reserve guide signs

168 Operation - road reserve

- 1681 Accident repairs (Recoverable)
- 1682 Road reserve emergency call out
- 1683 Storm damage response for road safety
- 1684 Traffic facilities - road traffic control

169 Operation - cleaning and waste management

- 1691 Road reserve litter collection
- 1692 Removal of graffiti visible from roads

17 MAINTENANCE AND OPERATIONS - BRIDGES (AUS-SPEC)

170 Structure

- 1701 Warves and decks maintenance

18 MAINTENANCE AND OPERATIONS - PUBLIC UTILITIES (AUS-SPEC)

184 Water supply

- 1841 Water supply - irrigation systems

185 Water cycle management

- 1851 Clear open space drains
- 1852 Clear open space drainage culverts
- 1853 Clear road reserve culverts and pits
- 1854 Minor repair of lined drains in road reserves
- 1859 CCTV inspection of drainage conduits

20 CONVEYING

200 Conveying general

201 Conveying equipment

- 2011 Lifts design and install
- 2012 [Escalators and moving walkways]

202 Other conveying equipment

- 2021 [Pneumatic tube systems]

CONTACT INFORMATION

NATSPEC	PHONE	1300 797 142
PO Box 1527	FAX	1300 797 143
SYDNEY NSW 1230	EMAIL	mail@natspec.com.au
Australia	WEB	www.natspec.com.au

NATIONAL WORKSECTION MATRIX OCTOBER 2019

- Full version
- Basic/Rural roads cut-down version
- s Shell/schedule
- D Domestic cut-down version

WORKSECTION/ SUBGROUP NUMBER	SUBGROUP/ WORKSECTION TITLES	Building	Services	HYDRAULIC AND MECHANICAL COMBINED	ELECTRICAL AND FIRE	URBAN AND OPEN SPACES	ROADWORKS AND PUBLIC UTILITIES BUILDINGS CONTRACTS COMPLETE	AUS-SPEC	WORKSECTION/ SUBGROUP NUMBER	SUBGROUP/ WORKSECTION TITLES	Building	Services	HYDRAULIC AND MECHANICAL COMBINED	ELECTRICAL AND FIRE	URBAN AND OPEN SPACES	ROADWORKS AND PUBLIC UTILITIES BUILDINGS CONTRACTS COMPLETE	AUS-SPEC
00	PLANNING AND DESIGN (AUS-SPEC)								016	Quality assurance							
001	General								0160	Quality							
0010	Quality requirements for design								0161	Quality management (Construction) (AUS-SPEC)							
0012	Waterfront development								0162	Quality (Supply) (AUS-SPEC)							
0013	Bushfire protection (Design)								0163	Quality (Delivery) (AUS-SPEC)							
002	Open space								0164	Commissioning							
0021	Site regrading								0167	Integrated management (AUS-SPEC)							
0022	Control of erosion and sedimentation (Design)								017	General requirements							
004	Road reserve								0171	General requirements							
0041	Geometric road design								0171q	DHPW (QLD) General requirements							
0042	Pavement design								0172	Environmental management							
0043	Subsurface drainage (Design)								0172q	DHPW (QLD) Environmental management							
0044	Pathways and cycleways (Design)								0173	Environmental management (AUS-SPEC)							
005	Road reserve - rural								018	Common requirements							
0051	Geometric rural road design - sealed								0181	Adhesives, sealants and fasteners							
0052	Geometric rural road design - unsealed								0181p	BOSTIK in adhesives, sealants and fasteners							
0053	Rural pavement design - sealed								0181p	MAPEI in adhesives, sealants and fasteners							
0054	Rural pavement design - unsealed								0182	Fire-stopping							
006	Bridges								0183	Metals and prefinishes							
0061	Bridges and related structures								0184	Termite management							
007	Public utilities								0184p	ENSYSTEX termite management							
0071	Water supply - reticulation (Design)								0184p	FMC HomeGuard termite management							
0072	Water supply - pump stations (Design)								0184p	TERMGUARD termite management							
0074	Stormwater drainage (Design)								0184p	TERMSHIELD termite management							
0076	Sewerage systems - reticulation (Design)								0185	Timber products, finishes and treatment							
0077	Sewerage systems - pump stations (Design)								019	Sundry installations							
01	GENERAL								0191	Sundry items							
011	Documentation								0191p	GERFLOR sundry items							
0110	Specification cover sheet								0192p	ANCON structural components							
0111	Tendering cover sheet								0193	Building access safety systems							
0112	Multiple contracts cover sheet								0194p	RAVEN door seals and window seals							
0113	Amendment record sheet (AUS-SPEC)								0195p	DTAC tactile indicators and stair edgings							
012	Tendering								02	SITE, URBAN AND OPEN SPACES							
0120	Pre-tendering contract preparation (AUS-SPEC)								020	Demolition							
0121	Tendering								0201	Demolition							
0122	Information for tenderers (AUS-SPEC)								0202	Demolition (Interior and alterations)							
0123	Conditions of tendering (AUS-SPEC)								022	Preparation and groundwork							
0124	Tender submission documents (AUS-SPEC)								0221	Site preparation							
0125	Standard contract checklists (AUS-SPEC)								0222	Earthwork							
0126	Period supply and service checklists (AUS-SPEC)								0222q	DHPW (QLD) Earthwork							
0127	Commissioning - information								0223	Service trenching							
013	Generic preliminaries								0224	Stormwater - site							
0131	Preliminaries (Generic)								024	Landscape structures							
0133	Preliminaries (Interior and alterations)								0241	Landscape - walling and edging							
0134	General requirements (Supply) (AUS-SPEC)								0242	Landscape - fences and barriers							
0135	General requirements (Services) (AUS-SPEC)								0243	Landscape - water features							
0136	General requirements (Construction) (AUS-SPEC)								025	Landscape cultivation							
0138	Multiple contracts								0250	Landscape - combined							
014	Contract preliminaries								0251	Landscape - soils							
0140	Preliminaries - ABIC BW-2018 C								0252	Landscape - natural grass surfaces							
0141	Preliminaries - ABIC MW-2018								0252p	LAWN SOLUTIONS in landscape - natural grass surfaces							
0142	Preliminaries - ABIC SW-2018								0253	Landscape - planting							
0143	Preliminaries - AS 2124								0254	Irrigation							
0144	Preliminaries - AS 4000								0255	Landscape - plant procurement							
0145	Preliminaries - AS 4905								0256	Landscape - establishment							
0146	Preliminaries - AS 4902								0257	Landscape - road reserve and street trees (AUS-SPEC)							
0147	Conditions of contract (AUS-SPEC)								0259	Landscape - maintenance							
0148	Preliminaries - ABIC EW-1								026	Landscape finishes							
015	Schedule of rates (AUS-SPEC)								0261	Landscape - furniture and fixtures							
0152	Schedule of rates (Construction)								0262	External sports and playground surfacing							
0153	Schedules - period supply and service								027	Pavements							
									0271	Pavement base and subbase							
									0272	Asphalt							
									0273	Sprayed bituminous surfacing							
									0274	Concrete pavement							

- Full version
- Basic/Rural roads cut-down version
- s Shell/schedule
- D Domestic cut-down version

[illegible][illegible]

- Full version
- Basic/Rural roads cut-down version
- s Shell/schedule
- D Domestic cut-down version

[illegible]

- Full version
- Basic/Rural roads cut-down version
- s Shell/schedule
- D Domestic cut-down version

[illegible]

09	ELECTRICAL
0900	Electrical general
0900r	Reference - Electrical services
0900s	Schedules - Electrical services
0901	Electrical systems
0902	Electrical design and install
091	Electrical equipment
0911	Cable support and duct systems
092	Power systems
0921	Low voltage power systems
093	Power supply equipment
0931	Power generation - engine driven
0931p	YANMAR gas powered micro cogeneration
0933	Power generation - photovoltaic
0937	Uninterruptible power supply
094	Power distribution equipment
0941	Switchboards - proprietary
0942	Switchboards - custom-built
0943	Switchboard components
0947	Power factor correction
095	Lighting systems
0951	Lighting
096	Communication systems
0961	Telecommunications cabling
0962	Television distribution systems
0963	Sound systems
097	Safety systems
0971	Emergency evacuation lighting
0979	Lightning protection
098	Security systems
0981	Electronic security
099	Electrical commissioning and maintenance
0991	Electrical maintenance

[illegible]

- Full version
- Basic/Rural roads cut-down version
- s Shell/schedule
- D Domestic cut-down version

		Services										Services																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
WORKSECTION/ SUBGROUP NUMBER	SUBGROUP/ WORKSECTION TITLES	Building										Building																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
		PROFESSIONAL	BASIC	LANDSCAPE	STRUCTURE	INTERIOR	DOMESTIC	COMBINED	MECHANICAL	ELECTRICAL	HYDRAULIC AND FIRE	PROFESSIONAL	BASIC	LANDSCAPE	STRUCTURE	INTERIOR	DOMESTIC	COMBINED	MECHANICAL	ELECTRICAL	HYDRAULIC AND FIRE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
		ROADWORKS AND OPEN SPACES										ROADWORKS AND OPEN SPACES																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
		PUBLIC UTILITIES										PUBLIC UTILITIES																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
		MAINTENANCE										MAINTENANCE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
		RURAL ROADS										RURAL ROADS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
		AUS-SPEC										AUS-SPEC																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
11 CONSTRUCTION - ROAD RESERVE																						14 MAINTENANCE AND OPERATIONS - URBAN AND OPEN SPACES																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
110 General																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								

- Full version
- Basic/Rural roads cut-down version
- s Shell/schedule
- D Domestic cut-down version

[illegible]

SPECIFICATIONS

WHY HAVE A SPECIFICATION?

The primary function of the drawings and specification is to give effect to design decisions. Many design decisions cannot be expressed in graphic form and therefore rely on words for their expression. Other decisions would be too tedious or impractical to be conveyed in graphic form. The drawings and specification complement each other.

THE IMPORTANCE OF A SPECIFICATION?

The quality of a building project is dependent on the documentation provided. The contract documentation includes the conditions of contract, the drawings, the schedules and the specification. Whilst the specification is a multi-purpose document, its primary function is to define precisely and succinctly the quality required and the processes necessary for achieving it. Its role includes, but extends beyond, the selection of materials by providing the criteria for acceptable quality of construction.

THE ROLES OF THE SPECIFICATION

The specification has many roles including being:

- a written record of design decisions taken.
- a document demonstrating compliance with statutory requirements.
- an estimating document.
- a tendering document.
- a legal (contractual) document.
- an on-site working document.
- a dispute settlement document.
- a project management tool.

THE FORM OF A SPECIFICATION

NATSPEC specification worksections are classified, numbered and sequenced in a logical order, which responds to the Australian construction industry. There are recognised methods of specification writing. These include specifying by:

- **Reference:** Where an identifiable printed and published document is incorporated by reference to it. These may be Australian Standards or manufacturer's technical manuals.
- **Performance:** That is, by stating a desired end result and the criteria by which the result will be judged for its acceptability.
- **Description:** Detailing the materials, workmanship and installation procedures to be used.
- **Direct/Proprietary:** Specification stating a proprietary trade name product.

Typically each worksection is divided into General, Products, Execution and Selections:

- **General** includes cross referencing, standards, interpretation, tolerances, submissions and inspection requirements.
- **Products** includes details of materials and components.
- **Execution** deals with the fabrication, installation, erection and completion as part of a project.
- **Selections** may be made within the text, in schedules within the worksections or provided separately. With simple projects, all selections may be on the drawings.

NATSPEC is the trading name of Construction Information Systems Limited, ABN 20 117 574 606.

NATSPEC, founded in 1975, is a not-for-profit organisation that is owned by the design, build, construct and property industry through professional associations and government property groups. It is impartial and is not involved in advocacy or policy development.

NATSPEC's major service is the provision of the comprehensive national specification systems endorsed by government and professional bodies. NATSPEC, the National Building Specification, is for all building structures, with specialist packages for architects, interior designers, landscape architects, structural engineers, service engineers and domestic owners. AUS-SPEC is the Local Government specification system for the life-cycle management of assets. Packages include Urban and Open Spaces, Roadworks and Bridges, Public Utilities, and Maintenance.

NATSPEC's objective is to improve the quality of construction in Australia through its updating services and via the provision of information, tools, products and other services.

Stakeholders

- Air Conditioning and Mechanical Contractors' Association of Australia
- Australian Elevator Association
- Australian Institute of Architects
- Australian Institute of Building
- Australian Institute of Building Surveyors
- Australian Institute of Quantity Surveyors
- Chief Minister, Treasury and Economic Development Directorate (ACT)
- Construction Industry Engineering Services Group
- Consult Australia
- Dept of Finance (Federal)
- Dept of Finance (WA)
- Department of Finance, Services and Innovation (NSW)
- Dept of Housing and Public Works (QLD)
- Dept of Infrastructure, Planning and Logistics (NT)
- Dept of Planning, Transport and Infrastructure (SA)
- Dept of Treasury and Finance (TAS)
- Dept of Treasury and Finance (VIC)
- Engineers Australia
- Master Builders Australia
- Standards Australia

CONTACT INFORMATION

NATSPEC
Level 4
263 Clarence Street
SYDNEY NSW 2000
Australia
PHONE 1300 797 142
FAX 1300 797 143
EMAIL mail@natspec.com.au
WEB www.natspec.com.au

0121 Tendering	This worksection Template reflects the principles of the main Australian codes of practice, including AS 4120 which is cited in a number of state government codes of practice. The worksection assumes head-contract tendering. It is applicable to non-contractual material and so does not form part of the contract documents. A tender pro-forma is attached to cover tender offers in the form of a lump sum.
0127 Commissioning – information	This worksection Template provides non-contractual information for the contractor when the owner requires a Commissioning Authority (CxA) to oversee the commissioning process for the whole, or a defined part of a project. It is based on the commissioning process described in ASHRAE Guideline 0.
0131 Preliminaries	This worksection Template is applicable to the site requirements of the owner. The project specific version may include site security arrangements, occupancy constraints, adjoining properties constraints, owner's site office and other temporary facilities, project signage, requirements for progress photographs, authority requirements, survey requirements, owner-supplied items, separate contracts, some aspects of payment for the works and pest eradication.
0133 Preliminaries (Interior and alterations)	This worksection Template is applicable to the site requirements of the owner for interior fitout projects. The project specific version may include site security arrangements, occupancy constraints, adjoining properties constraints, project signage, requirements for progress photographs, authority requirements, owner-supplied items, separate contracts, and some aspects of payment for the works.
0138 Multiple contracts	This worksection Template is applicable to projects to be let as several prime contract packages, also known as trade package contracts and separate contracts. It deals with the interfaces between the contracts and provides a framework for scheduling the boundaries of responsibility between the contractor and the principal or other contractors, on behalf of the principal.
0140 Preliminaries - ABIC BW 2018 C	This worksection Template is applicable to the ABIC BW 2018 C contract for small commercial projects or single trade activities where an architect administers the contract, applicable in all states and territories. It is relevant to the site requirements of the owner. The project specific version may include site security arrangements, adjoining property constraints, occupancy constraints, owner's temporary facilities, project signage, authority requirements, survey requirements, owner-supplied items, and pest eradication.
0141 Preliminaries - ABIC MW-2018	This worksection Template is applicable to the ABIC MW-2018 major works contract for non-housing work. It can be adapted for use with the various state and territory specific contracts for housing work. It is relevant to site requirements of the owner. The project specific version may include site security arrangements, occupancy constraints, adjoining properties constraints, owner's site office and other temporary facilities, project signage, provisional sums, requirements for progress photographs, authority requirements, survey requirements, owner-supplied items, separate contracts, some aspects of cost adjustment and pest eradication.
0142 Preliminaries - ABIC SW-2018	This worksection Template is applicable to the ABIC SW-2018 simple works contract for non-housing work. It can be adapted for use with the various state and territory specific contracts for housing work. It is relevant to the site requirements of the owner. The project specific version may include site security arrangements, occupancy constraints, adjoining properties constraints, owner's site office and other temporary facilities, project signage, provisional sums, requirements for progress photographs, authority requirements, survey requirements, owner-supplied items, separate contracts, some aspects of cost adjustment and pest eradication.

0143 Preliminaries - AS 2124	This worksection Template is applicable to the AS 2124 building contract for major works. It is relevant to the site requirements of the principal. The project specific version may include site security arrangements, occupancy constraints, adjoining properties constraints, principal's site office and other temporary facilities, project signage, provisional sums, requirements for progress photographs, authority requirements, survey requirements, principal-supplied items, separate contracts, some aspects of cost adjustment and pest eradication.
0144 Preliminaries - AS 4000	This worksection Template is applicable to the AS 4000 building contract for major works. It is relevant to the site requirements of the principal. The project specific version may include site security arrangements, occupancy constraints, adjoining properties constraints, principal's site office and other temporary facilities, project signage, provisional sums, requirements for progress photographs, authority requirements, survey requirements, principal-supplied items, separate contracts, some aspects of cost adjustment and pest eradication.
0145 Preliminaries - AS 4905	This worksection Template is applicable to the AS 4905 building contract for minor works. It is relevant to the site requirements of the principal. The project specific version may include site security arrangements, occupancy constraints, adjoining properties constraints, principal's site office and other temporary facilities, project signage, provisional sums, requirements for progress photographs, authority requirements, survey requirements, principal-supplied items, separate contracts, some aspects of cost adjustment and pest eradication.
0146 Preliminaries - AS 4902	This worksection Template is applicable to the AS 4902 building contract for design and construct. It is relevant to the site requirements of the principal. The project specific version may include site security arrangements, occupancy constraints, adjoining properties constraints, principal's site office and other temporary facilities, project signage, provisional sums, requirements for progress photographs, authority requirements, survey requirements, principal-supplied items, separate contracts, some aspects of cost adjustment and pest eradication.
0147 Conditions of contract	This worksection Template is applicable to the General conditions of contract, Annexures to the contract and Special conditions of contract. The completed worksection forms VOLUME 1 – Conditions of contract. This worksection is based on AS 2124 General conditions of contract. Amend this document for use with other general conditions of contract, special conditions, WHS and environmental requirements. See NATSPEC disclaimer on the use of this worksection for this and other contracts.
0148 Preliminaries - ABIC EW-1	This worksection Template is applicable to the ABIC EW-1 contract for early works. It is relevant to the site requirements of the owner. The project specific version may include site security arrangements, occupancy constraints, adjoining properties constraints, other temporary facilities, project signage, provisional sums, requirements for progress photographs, authority requirements, survey requirements, separate contracts, some aspects of cost adjustment, and pest eradication.
0160 Quality	This worksection Template applies to the selection and implementation of a project Quality Management System based on AS/NZS ISO 9001. It includes the submission of a Quality Plan from a contractor having an approved Quality Manual.

0164 Commissioning	This worksection Template is applicable to projects in which the owner requires a Commissioning Authority (CxA) to oversee a commissioning process for the whole of the project. It details minimum requirements for the commissioning process during the construction phase without focusing upon specific building types, systems or assemblies, or on specific project sizes. It is based on the commissioning process described in ASHRAE Guideline 0. Commissioning requirements for individual components and systems are documented in their respective worksections, for example, commissioning of HVAC systems is dealt with in 0791 Mechanical commissioning.
0171 General requirements	This worksection Template draws together administrative material which is common to the technical worksections for new work, interiors, and alterations and additions, including services. As it should be brought to the attention of subcontractors and others using that material, each technical worksection includes a cross reference to that effect. 0171 General requirements covers topics such as referenced documents, interpretation, inspection and tests, samples and contractor's submissions, materials and components, bushfire resistance, installation, marking and completion.
0171q DHPW (QLD) General requirements	This worksection Template draws together administrative material which is common to the technical worksections for new work, interiors, and alterations and additions, including services for DHPW (Qld). As it should be brought to the attention of subcontractors and others using that material, each technical worksection includes a cross reference to that effect. 0171 General requirements covers topics such as referenced documents, interpretation, inspection and tests, samples and contractor's submissions, materials and components, bushfire resistance, installation, marking and completion.
0172 Environmental management	This worksection Template is applicable to the environmental management of the construction site and includes environmental controls for erosion and sedimentation, flora and fauna, groundwater, indigenous and non-indigenous heritage, water quality, air quality, waste and weeds. It provides for documenting an environmental management plan, if required, and/or the requirements for environmental management either in contractor prepared control plans or the principal/consultant control measures.
0172q DHPW (QLD) Environmental management	This worksection Template is applicable to the DHPW (QLD) environmental management of the construction site and includes environmental controls for erosion and sedimentation, flora and fauna, groundwater, indigenous and non-indigenous heritage, water quality, air quality, waste and weeds. It provides for documenting an environmental management plan, if required, and/or the requirements for environmental management either in contractor prepared control plans or the principal/consultant control measures.
0181 Adhesives, sealants and fasteners	This worksection Template is applicable to the commonly used adhesives, sealants and fasteners and provides basic defaults for projects requiring adhesives, sealants and fasteners, as part of general construction.
0181p BOSTIK in adhesives, sealants and fasteners	
0181p MAPEI in adhesives, sealants and fasteners	
0182 Fire-stopping	This worksection Template is applicable to the fire-stopping requirements of the NCC deemed-to-satisfy clauses BCA C3.15 and BCA C3.16, for service penetrations and construction/control joints in wall, floor and ceiling elements, that are required to have a fire-resistance level (FRL).
0183 Metals and prefinishes	This worksection Template is applicable to common metals and metal alloys, and prefinishes.
0184 Termite management	This worksection Template is applicable to various physical and chemical and systems which may be used, alone or in combination, for termite management. The various systems are located together in the one worksection as their effectiveness relies on the integration of the chosen systems.

	0184p ENSYSTEX termite management
	0184p FMC HOMEGUARD termite management
	0184p TERMGUARD termite management
	0184p TERMSHIELD termite management
0185 Timber products, finishes and treatment	This worksection Template is applicable to the certification, durability and quality conformance of timber products. It includes preservative treatments to the AS 1604 series, moisture content and fire-resistance. State legislation will override some of the provisions of this worksection.
0191 Sundry items	This worksection Template is applicable to building components that may not obviously belong to a particular worksection or alternatively, could reasonably belong to a number of worksections. They are generally proprietary components and equipment made from a range of materials, and can be installed in a range of interior or exterior locations. Custom-made items are better located in the appropriate worksection, e.g. 0552 Metalwork – fabricated for predominantly metal items, or items to be made by a metal fabricator.
	0191p GERFLOR sundry items
	0192p ANCON structural components
0193 Building access safety systems	This worksection Template is applicable to the design, supply, installation and maintenance of building access safety systems comprising industrial fall arrest and rope access systems. It includes anchors and accessories for rope access and ladders for roof safety systems.
	0194p RAVEN door seals and window seals
	0195p DTAC tactile indicators and stair edgings
0201 Demolition	This worksection Template is applicable to demolition of buildings, structures and services. It includes planning and execution of the work, protection and support of adjacent structures, and removal of demolished material.
0202 Demolition (interior and alterations)	This worksection Template is applicable to the demolition and removal of internal building elements and services from within an existing building.
0221 Site preparation	This worksection Template is applicable to site preparation requirements including existing services, site clearing, stormwater and sediment control, tree removal/protection/transplanting/maintenance, and temporary landscape fencing.
0222 Earthwork	This worksection Template is applicable to topsoil removal, excavation, filling and compaction as required for building operations.
0222q DHPW (QLD) Earthwork	This worksection Template is applicable to topsoil removal, excavation, filling and compaction as required for building operations for DHPW (Qld).
0223 Service trenching	This worksection Template is applicable to trenching for underground services within a building site. It covers fill materials, existing services, existing surfaces, excavating, trench back fill and surface restoration.
0224 Stormwater – site	This worksection Template is applicable to stormwater drainage associated with pavements and other non-building projects. For internal stormwater piping for roof water and for simple external systems related to buildings, use 0821 Stormwater – buildings.
0241 Landscape – walling and edging	This worksection Template is applicable to edging and retaining and free standing walls subject to height criteria conforming with local authority requirements.
0242 Landscape – fences and barriers	This worksection Template is applicable to basic fencing including tennis court fencing; sports ground fencing; cricket net enclosures; steel and timber picket and paling (plain paling, lap and cap) fencing; and swimming pool fencing, generally for domestic use, and chainwire and welded mesh fencing for industrial, commercial and institutional use.

0243 Landscape – water features	This worksection Template is applicable to self-contained water features in open landscaped areas.
0250 Landscape – combined	This worksection Template is applicable to simple ‘soft’ landscaping. It has been prepared for and is suitable only for work of a scale or size that does not warrant the use of separate worksections for each aspect of landscaping work included. As such, it combines relevant clauses from the following stand-alone landscape worksections: 0251 Landscape – soils, 0252 Landscape – natural grass surfaces, 0253 Landscape – planting, 0254 Irrigation and 0255 Landscape – plant procurement.
0251 Landscape – soils	This worksection Template is applicable to soils for landscaping including, rock work, filling, topsoil and topsoil additives. Geotechnical site investigation and soil related earthworks are also covered.
0252 Landscape – natural grass surfaces	This worksection Template is applicable to grass seeding, hydroseeding and hydromulching, turfing, stolonising, and temporary grassing. 0252p LAWN SOLUTIONS in landscape – natural grass surfaces
0253 Landscape – planting	This worksection Template is applicable to landscape planting (softworks) including composts, fertilisers, binders, mulching, insect spraying, tree pruning and anchorage.
0254 Irrigation	This worksection Template is applicable to automatically controlled, fixed watering systems. It includes micro irrigation, drip irrigation systems, sub surface irrigation and valve boxes.
0255 Landscape – plant procurement	This worksection Template includes shrubs and ground cover as well as trees. It is structured to allow for the supply of plant material as a separate early contract or as part of the head contract.
0256 Landscape – establishment	This worksection Template is applicable to landscape establishment and maintenance for the period between the date of practical completion and the end of the defects liability period under the head contract.
0259 Landscape – maintenance	This worksection is applicable to the ongoing maintenance of established landscape projects. It will require a separate unique contract. It may also be used following the defects liability period under a head contract.
0261 Landscape – furniture and fixtures	This worksection Template is applicable to proprietary items and custom-built items associated with landscape works, including proprietary shade structures.
0262 External sports and playground surfacing	This worksection Template is applicable to external sports and playground surfacing, including synthetic turf, polymeric rubber (cast in situ, prefabricated sheeting/tiles, granular material) and polymeric liquid coatings.
0271 Pavement base and subbase	This worksection Template is applicable to the supply, spreading, compaction and trimming of base and subbase courses of flexible pavements for access or car parking.
0272 Asphalt	This worksection Template is applicable to the supply and laying of asphalt surfacing for areas not forming public roadways.
0273 Sprayed bituminous surfacing	This worksection Template is applicable to bituminous sprayed surfacing including priming, primer sealing and resealing of ancillary areas not forming public roadways.
0274 Concrete pavement	This worksection Template is applicable to the supply and placement of concrete for concrete pavements such as loading docks, car parks, landscape hard paving within site boundaries. It includes residential streets, paths and driveways associated with a building project.
0275 Paving – mortar and adhesive bed	This worksection Template is applicable to external paving of clay, stone, industrial cast stone, terrazzo and manufactured cementitious pavers on a cement mortar bed and adhesive bed to concrete substrates.

0276 Paving – sand bed	This worksection Template is applicable to the supply, placement and compaction of proprietary clay and concrete paving on sand bedding for use in vehicular pavements, cycleways, footpaths and landscaped areas, over unbound base and/or subbase layer/s. This worksection does not apply to public roads and streets.
0277 Pavement ancillaries	This worksection Template is applicable to the installation of channels, kerbs, linemarking and some types of vehicle barriers.
0278 Granular surfaces	This worksection Template is applicable to the construction of granular pathways, driveways and outdoor living areas, and includes subgrade trimming, base compaction, edge restraints and granular surfacing.
0279 Paving - on pedestals	This worksection Template is applicable to pedestrian traffic paving of clay, ceramic, stone, industrial cast stone, terrazzo and manufactured cementitious pavers supported on pedestals.
0279p PASCO BUZON in paving - on pedestals	
0301 Piling	This worksection Template is applicable to piled footings for building structures and includes timber, concrete/grout and steel piling aligned with AS 2159.
0310 Concrete – combined	This worksection Template is applicable to the use of concrete for buildings and associated structures. It is suitable for work of a scale or size which does not need a separate worksection for each of the different parts of the concrete work. It combines relevant clauses from the following worksections: 0311 Concrete formwork, 0312 Concrete reinforcement, 0313 Concrete post-tensioned, 0314 Concrete in situ and 0315 Concrete finishes. For large projects and for projects which include precast and tilt-up concrete, use separate worksections.
0310p AFS WALL SYSTEMS in concrete – combined	
0310p AQURON 1000 HYDROGEL in concrete - combined	
0310p CONQOR B52 HYBRID-HYDROGEL in concrete – combined	
0310p DINCEL in concrete – combined	
0311 Concrete formwork	This worksection Template is applicable to supply, installation and removal of formwork for concrete work in buildings and associated structures. It includes formwork using profiled steel sheeting and plywood. This worksection is generally used in conjunction with other concrete worksections.
0311p FIELDERS KingFlor in concrete formwork	
0312 Concrete reinforcement	This worksection Template is applicable to supply and installation of fibre and steel reinforcement in concrete for buildings and associated structures. It includes ties, supports and dowelling. This worksection is generally used in conjunction with other concrete worksections.
0313 Concrete post-tensioned	This worksection Template is applicable to bonded post-tensioning of concrete using strand, bar or wire. It includes concrete elements that are post-tensioned on site as part of the concrete construction process. Cable stays, external post-tensioning and ground anchors are excluded. It anticipates the possibility of contractor design.
0314 Concrete in situ	This worksection Template is applicable to concrete placement on site (in situ) for building and associated structures. It includes preparation of the base, concrete supply, placement, compaction, curing and jointing. This worksection is generally used in conjunction with other concrete worksections.
0315 Concrete finishes	This worksection Template is applicable to the production of formed and unformed finishes to concrete surfaces in building and associated structures. It covers the common surface finishes. Project specific finishes may be added, if required. This worksection should be used in conjunction with 0314 Concrete in situ, in particular for curing.

0318 Shotcrete	This worksection Template is applicable to pre-mixed (wet) concrete which is applied pneumatically and compacted dynamically under high velocity. It should be used in situations where formed in situ concrete is not appropriate. This worksection is not applicable to dry mix shotcrete, or mechanically applied shotcrete used for tunnelling and mining ground support applications.
0321 Precast concrete	This worksection Template is applicable to precast concrete elements cast in a manufacturing plant or factory, distant from the final installation location and under quality control. Precast elements include reinforced and pre/post tensioned floors, walls, beams and columns. It includes connections, fixings and lifting accessories. Casting, transport, installation and erection procedures are in accordance with AS 3850.2. The worksection permits contractor design and is endorsed by the National Precast Concrete Association Australia (NPCAA - www.nationalprecast.com.au).
0322 Tilt-up concrete	This worksection Template is applicable to tilt-up (or tilt-slab) concrete vertical wall elements cast in a horizontal position at or near its final location. It involves installation by rotation about one edge until vertical. The panels must be stabilised by bracing or temporary propping members. This worksection is aligned with AS 3850.1 and AS 3850.2. The worksection permits contractor design.
0325p AQURON 7000 HYDROGEL concrete protection	
0325p DEFLECTA concrete protection	
0331 Brick and block construction	This worksection Template is applicable to internal and external, load bearing and non-load bearing brick and block construction in buildings and associated structures using brick and block masonry units manufactured from clay, calcium silicate, concrete or autoclaved aerated concrete (AAC). It includes details on mortar, reinforcement, ties and other accessories, lintels, damp proofing and flashings.
0332 Stone masonry	This worksection Template is applicable to natural stone masonry units used in buildings and associated structures. It includes mortar/grout, lintels, wall ties, damp proof courses and flashings and stone foundations. There is no Australian standard for the stone masonry product. However, the design and construction of masonry structures is covered in AS 3700.
0333 Stone repair	This worksection Template is applicable to the cleaning, repair and restoration of existing stone masonry, including stone removal and replacement work. It includes requirements for natural and synthetic stones, mortars, fixings and repointing.
0334 Block construction	This worksection Template is applicable to internal and external, load bearing and non-load bearing construction in buildings and associated structures using block masonry units manufactured from concrete or autoclaved aerated concrete (AAC). It includes details on mortar, reinforcement, ties and other accessories, lintels, damp proofing and flashings. This worksection is endorsed by the Concrete Masonry Association of Australia (CMAA). See www.cmaa.com.au .
0335 Brick construction	This worksection Template is applicable to internal and external, load bearing and non-load bearing construction in buildings and associated structures using brick masonry units manufactured from clay, calcium silicate and concrete. It includes wall ties, lintels, mortar, face and cavity work, damp proof courses and flashing.
0341 Structural steelwork	This worksection Template is applicable to general structural steel framing in buildings, and associated structures. It includes cold-formed purlins and girts used in conjunction with structural steelwork. It covers welding, bolting, surface preparation and treatment of structural steelwork, and architecturally exposed structural steelwork (AESS).
0341p FIELDERS SlimFlor in structural steelwork	
0341p GALVSPAN® steel purlins and girts in structural steelwork	
0341p LYSAGHT purlins and girts in structural steelwork	

0342 Light steel framing	This worksection Template is applicable to framing for structures generally comprising cold formed metallic-coated or aluminium/zinc-coated steel sections where particular project specific requirements need to be met. It covers residential and low-rise floor, wall, roofing and truss framing.
0343 Tensioned membrane structures	This worksection Template is applicable to suspended tensioned membrane structures, including shade or waterproof membrane structures. It covers supporting structures, tension members, anchorages and foundations, both attached to other structures and stand-alone elements. The worksection is not intended to apply to proprietary structures and systems which are covered by the manufacturers' details, specification and certification. It is not applicable to tensioned membrane structures for Class 1 residential dwellings.
0344 Steel – hot-dip galvanized coatings	This worksection Template is applicable to post-fabrication galvanizing of fabricated structural steelwork or steel products identified as being at risk of atmospheric corrosion. The worksection derives from the standard specification for hot dip galvanized coatings published in GAA Galvanizing After fabrication hot dip galvanizing by the Galvanizers Association of Australia (GAA) www.gaa.com.au . This worksection is endorsed by the Galvanizers Association of Australia.
0345 Steel – protective paint coatings	This worksection Template is applicable to protective paint coating systems for the protection of steel products and structural steelwork against interior and exterior atmospheric corrosion. It addresses surface preparation, preparation assessment and coating application for new and maintenance work.
	0345p DULUX steel protective paint coatings
	0345p WATTYL steel protective paint coatings
0346 Structural fire protection systems	This worksection Template is applicable to fire protection systems for structural building elements where an FRL is required. They can be specified prescriptively or by performance. It includes sprayed coatings, board systems and intumescent paint. The worksection is based on the NCC deemed-to-satisfy requirements in BCA Schedule 5.
0361 Monolithic stabilised earth walls	This worksection Template is applicable to monolithic stabilised earth walls using a blend of 6 to 10% cement with selected low clay soils containing well graded sand and aggregates.
0362 Mud brick walls	This worksection Template applies to walls of straw-reinforced, sun-dried earth bricks/blocks (adobe), both stabilised and unstabilised. It does not address monolithic stabilised earth walls, compressed blocks (e.g. Cinva ram) or lightly-burnt blocks.
0363 Straw bale walls	This worksection Template is applicable to straw bale construction of mainly single and two storey buildings. There is no Australian standard for this type of construction.
0381 Structural timber	This worksection Template is applicable to timber building and civil engineering structures or elements for generally commercial, industrial, marine and similar purposes. It includes major beams and columns in residential buildings, timber portal frames and trusses, timber decks, walkways and jetties, pole structures, timber bridges and timber masts, pylons, towers, and similar structures. For timber framing to the AS 1684 series, use 0382 Light timber framing.
0382 Light timber framing	This worksection Template is built around the AS 1684 series, as appropriate. It is applicable to light timber framing, bracing and timber trusses in Class 1 and Class 10 buildings as defined by the NCC.
0383 Sheet flooring and decking	This worksection Template is applicable to external timber, composite or compressed fibre cement decking, and to internal sheet flooring of plywood, particleboard or compressed fibre cement as either platform floors or fitted floors. It assumes the provision of a supporting structure.

0411 Waterproofing – external and tanking	<p>This worksection Template is applicable to tanking and external waterproof membrane applications to roofing, balconies, concrete slabs over below ground spaces, planter boxes and tanking generally. It relies on AS 4654.1 and AS 4654.2. It does not include concrete admixtures, penetrating sealers or decorative coatings.</p> <p>0411p MAPEI in waterproofing – external and tanking</p> <p>0411p PARCHEM waterproofing – external and tanking</p>
0421 Roofing – combined	<p>This worksection Template is applicable to the provision of roof coverings of profiled and seamed sheet metal, shingles and shakes, slates, tiles, and roof plumbing. It also covers glazed and plastic sheet roofing, skylights, roof hatches, roof windows, roof ventilators and roof plant access.</p>
0423 Roofing – profiled sheet metal	<p>This worksection Template is applicable to the provision of roof coverings of profiled sheet metal and roof plumbing. It also covers glazed and plastic sheet roofing, skylights, roof hatches, roof windows, roof ventilators and roof plant access.</p> <p>0423p COLORBOND® steel and ZINCALUME® steel in roofing</p> <p>0423p FIELDERS roofing - profiled sheet metal</p> <p>0423p LYSAGHT roofing - profiled sheet metal</p> <p>0423p REVOLUTION ROOFING in profiled sheet metal</p>
0424 Roofing – seamed sheet metal	<p>This worksection Template is applicable to the provision of roof coverings of seamed sheet metal and roof plumbing. It also covers glazed and plastic sheet roofing, skylights, roof hatches, roof windows, roof ventilators and roof plant access.</p> <p>0424p FIELDERS roofing - specialised sheet metal</p>
0425 Roofing – shingles and shakes	<p>This worksection Template is applicable to the provision of roof coverings of timber shingles and shakes and roof plumbing. It also covers glazed and plastic sheet roofing, skylights, roof hatches, roof windows, roof ventilators and roof plant access.</p>
0426 Roofing – slate	<p>This worksection Template is applicable to the provision of slate roof coverings and roof plumbing. It also covers glazed and plastic sheet roofing, skylights, roof hatches, roof windows, roof ventilators and roof plant access.</p>
0427 Roofing – tiles	<p>This worksection Template is applicable to the provision of roof coverings of cement, terracotta or pressed sheet metal roofing tiles and roof plumbing. It also covers glazed and plastic sheet roofing, skylights, roof hatches, roof windows, roof ventilators and roof plant access.</p> <p>0428p ASKIN VOLCORE performance panel roofing</p> <p>0428p ASKIN XFLAM performance panel roofing</p> <p>0428p DELTA PANELS insulated roofing systems</p> <p>0428p KINGSPAN insulated panel roofing systems</p> <p>0429p DANPALON roof glazing</p>
0431 Cladding – combined	<p>This worksection Template is applicable to lightweight external wall cladding for work of a scale or size which does not warrant the use of separate worksections for each selected cladding type. It combines relevant clauses from 0434 Cladding – flat sheets and panels, 0435 Cladding – planks and weatherboards, 0436 Cladding – profiled and seamed sheet metal and 0437 Cladding - insulated panel systems.</p>
0432 Curtain walls	<p>This worksection Template is applicable to windows and window-and-spandrel assemblies custom-designed to form part, or the whole, of a building facade. It contains detailed performance and testing requirements and has extensive quality control provisions. Contractor design is expected.</p>
0433 Stone cladding	<p>This worksection Template is applicable to mechanically fixed natural stone or cast stone cladding panels in external or internal applications.</p>

0434 Cladding – flat sheets and panels	<p>This worksection Template is applicable to lightweight external wall cladding and facing using AAC panels, composite panels, fibre cement, compressed fibre cement, and plastic or plywood flat sheets.</p> <p>0434p DANPALON translucent facade cladding</p>
0435 Cladding – planks and weatherboards	<p>This worksection Template is applicable to lightweight external wall cladding including hardboard and fibre cement planks, and aluminium and timber weatherboards.</p>
0436 Cladding – profiled and seamed sheet metal	<p>This worksection Template is applicable to lightweight external wall cladding of profiled and seamed sheet metal products.</p> <p>0436p COLORBOND steel and ZINCALUME steel in cladding</p> <p>0436p FIELDERS cladding - profiled sheet metal</p> <p>0436p LYSAGHT cladding - profiled sheet metal</p> <p>0436p REVOLUTION ROOFING wall cladding</p>
0437 Cladding - insulated panel systems	<p>This worksection Template is applicable to lightweight external wall cladding and facade systems comprising prefinished composite panels with metal skins factory-bonded to an insulating core of expanded polystyrene (EPS), polyisocyanurate (PIR) or mineral wool (MW).</p> <p>0437p ASKIN VOLCORE performance panel cladding</p> <p>0437p ASKIN XFLAM performance panel cladding</p> <p>0437p DELTA PANELS insulated cladding systems</p> <p>0437p FIELDERS cladding - specialised panels</p> <p>0437p KINGSPAN insulated panel cladding systems</p>
0451 Windows and glazed doors	<p>This worksection Template is applicable to windows and glazed doors consisting of proprietary lines (or suites) of manufactured products, supplied as complete systems, fabricated and assembled to the standard designs of specialist firms in documented materials such as aluminium, steel, timber and plastics. It includes glazing, hardware and associated integral blinds, louvres, and grilles as well as installation accessories, such as fixings, flashings, sealants and seals, caulking and weather-stripping, necessary for the satisfactory functioning of the whole system.</p> <p>0451p ALSPEC aluminium windows and doors</p> <p>0451p AWS aluminium windows and doors</p> <p>0451p CAPRAL ALUMINIUM windows and doors</p>
0453 Doors and access panels	<p>This worksection Template is applicable to conventional door frames of metal and timber with flush panel and joinery doors of timber and various timber and plastic products. This worksection only covers some key generic requirements as the range of available products, performance requirements and design choices is so wide.</p> <p>0453p CS Cavity Sliders in doors and access panels</p> <p>0453p RONDO in doors and access panels</p>
0454 Overhead doors	<p>This worksection Template is applicable to sectional and rigid (tilting) overhead doors, and rolling curtain and shutter doors (including fire-resistant shutters) for residential, commercial and industrial applications. Manual and motorised operation are covered.</p> <p>0454p EZI-ROLL overhead doors</p>
0455 Door hardware	<p>This worksection Template is applicable to hardware items such as hinges, keys, locks, latches, furniture and door controllers including automated devices and provides two alternative types of schedules for specifying these items – selection schedules and door-by-door schedules.</p>

0456 Louvre windows	<p>This worksection Template is applicable to louvre windows consisting of proprietary products, supplied as complete systems fabricated and assembled by specialist firms to their standard designs. Components include glass, metal, timber or plastic louvre blades, hardware and associated screens and grilles, as well as installation accessories, such as fixings, flashings, sealants, joint sealing and weather-stripping, necessary for the satisfactory functioning of the whole system.</p> <p>0456p BREEZWAY louvre windows</p> <p>0456p SAFETYLINE JALOUSIE louvre windows</p>
0457 External screens	<p>This worksection Template is applicable to external screens consisting of proprietary lines (or suites) of manufactured products, supplied as complete systems fabricated and assembled by specialist firms to their standard designs. It includes sunscreens, trafficable sunscreens, external louvres and blinds, shutters, awnings and pergolas fixed to building facades or openings to control sunlight and/or to provide privacy, to screen plant and equipment, or to provide an architectural feature. It applies to fixed, adjustable, operable and automatically controlled types.</p> <p>0458p TORMAX automatic doors</p>
0461 Glazing	<p>This worksection Template is applicable to glazing in framed openings to windows, doors and curtain walls based on AS 1288.</p>
0462 Structural silicone glazing	<p>This worksection Template is applicable to the installation of glazing systems, including:</p> <ul style="list-style-type: none"> • Glass assemblies in which the glass is adhered to the framing system with a structural sealant. • Framed, unframed and partly framed glass assemblies including faceted glazing and fin supported glazing. • Contractor design is expected.
0463 Glass blockwork	<p>This worksection Template is applicable to fully framed glass blockwork with mortar joints.</p>
0466 Structural glass assemblies	<p>This worksection Template is applicable to the design, supply and installation of structural glass assemblies including:</p> <ul style="list-style-type: none"> • Glazed awnings and canopies. • Unframed and partly framed glass assemblies including faceted glazing, fin-supported glazing, patch plate jointed, unframed toughened glass assemblies suspended glazing, and point fixed glazing incorporating spider type glass fittings. • Suspended frameless glass assemblies with wind stiffening systems. • Contractor design is expected.
0467 Glass components	<p>This worksection Template is applicable to glass products such as shower screens, balustrades and mirrors.</p>
0471 Thermal insulation and pliable membranes	<p>This worksection Template is applicable to insulation and pliable membranes for floors, walls, ceilings and roofs. It generally relies on AS 3999, AS/NZS 4200.1, AS 4200.2 and AS/NZS 4859.1. A pliable building membrane may be installed to act as a sarking membrane, vapour barrier, thermal insulation or any combination of the three. This worksection does not cover insulation for services (e.g. for ductwork) or acoustic insulation.</p> <p>0471p KINGSPAN in thermal insulation and pliable membranes</p> <p>0471p KNAUF INSULATION in thermal insulation and pliable membranes</p>
0472 Acoustic insulation	<p>This worksection Template is applicable to acoustic insulation for floors, walls and ceilings against the transmission of airborne and impact generated sound between dwellings or units. It includes bulk and rigid insulation, plenum baffles and flanking sound insulation. This worksection does not cover acoustic insulation for building services, e.g. ductwork.</p> <p>0472p KNAUF in acoustic insulation</p>

	0473p DAMTEC acoustic floor underlays
	0473p DC TECH acoustic floor underlays
	0473p REGUPOL acoustic floor underlays
0511 Lining	This worksection Template is applicable to the installation of internal lining systems permanently fixed to walls and ceilings. It deals with internal dry linings of timber boards, gypsum plasterboard and cellulose fibre reinforced cement.
	0511p KEYSTONE ACOUSTICS in lining
0520 Partitions - combined	<p>This worksection Template is applicable to the following internal partitions:</p> <ul style="list-style-type: none"> • Proprietary demountable partition systems. • Framed and lined partitions consisting of lightweight steel or timber framing and plasterboard or fibre cement lining; and with autoclaved aerated concrete (AAC) panels. • Internal non-load bearing framed and frameless glass partitions and glazed doors.
0521 Partitions – demountable	This worksection Template is applicable to proprietary demountable partition systems.
0522 Partitions – framed and lined	This worksection Template is applicable to internal framed and lined partitions consisting of lightweight steel or timber framing and plasterboard or fibre cement lining; and with autoclaved aerated concrete (AAC) panels.
	0522p RONDO in partitions - framed and lined
0523 Partitions – brick and block	This worksection Template is applicable to internal non-load bearing brick and block construction of a simple nature associated with interior fitout works.
0524 Partitions – glazed	This worksection Template is applicable to internal non-load bearing framed and frameless glass partitions, and glazed doors.
0525 Cubicle systems	This worksection Template is applicable to partitioned cubicles for toilets and showers. The material can be adapted for changing areas and various decontamination cubicles such as air showers.
0526 Terrazzo precast	This worksection Template is applicable to precast units and assemblies including toilet and shower cubicle partitions, stair units, joinery units, door thresholds and window sills.
0527 Room dividers	This worksection Template is applicable to operable walls, folding doors and accordion doors.
0531 Suspended ceilings – combined	This worksection Template is applicable to flush lined and proprietary ceiling units to suspended internal ceilings and external soffits of dry construction with suspension systems attached to a supporting structure.
	0531p CSR HIMMEL in suspended ceilings – combined
	0531p RONDO in suspended ceilings – combined
0532 Suspended ceilings – flush lined	This worksection Template is applicable to the fixing of flush lined internal suspended ceilings and external soffits of dry construction with suspension systems attached to a supporting structure.
0533 Suspended ceilings – ceiling units	This worksection Template is applicable to the installation of proprietary ceiling units to suspension systems attached to a supporting structure.
0541 Access floors	This worksection Template is applicable to pedestal access floor systems.
	0541p TATE ConCore access floors
0551 Joinery	This worksection Template is applicable to the shop fabrication and site installation of custom made joinery fixtures and trim to walls and openings. It deals with all types of joinery including domestic, laboratory and healthcare joinery fixtures.
0552 Metalwork – fabricated	This worksection Template is applicable to what is generally known as custom built architectural metalwork such as stairs, ladders, walkways, balustrades, handrails, screens, grilles, guards, bollards, furniture, and decorative items.

	0552p CON-FORM in metalwork and platforms – fabricated
	0552p MONKEYTOE in metalwork - fabricated
0553 Stainless steel benching	This worksection Template is applicable to stainless steel benches and associated fitments usually for commercial applications such as kitchens, laboratories and hospitals.
	0554p MODDEX steel handrails, guardrails, balustrades and other barriers
0571 Workstations	This worksection Template is applicable to the supply and installation of office workstations.
0572 Miscellaneous furniture	This worksection Template is applicable to the supply and installation of loose furniture and fixed items that are capable of retrofit.
0573 Fire extinguishers and blankets	This worksection Template is applicable to fire extinguishers and fire blankets. The specification should reflect any extra requirements of local statutory authorities. The principal product standards are the AS/NZS 1841 series and AS 2444, a deemed-to-safely standard under the NCC.
0574 Window coverings	This worksection Template is applicable to window coverings for interior use, both decorative and blockout comprising curtains and blinds, manual and power operated.
0575 Tapestries	This worksection Template is applicable to wall-hung tapestries woven using the Gobelin method (a traditional weft faced technique). It was developed in conjunction with the Australian Tapestry Workshop (ATW, formerly the Victorian Tapestry Workshop) austapestry.com.au . There is no standard specifically for tapestries.
0581 Signage	This worksection Template is applicable to house signage, display, tactile wayfinding signage and statutory signs. Signage for switchboards, piping, etc. should be dealt with in the appropriate technical worksection, but coordinated with this worksection.
0611 Rendering and plastering	This worksection Template is applicable to traditional wet plastering and rendering, though proprietary and special systems may feature in the project specifications and drawings. It includes work on lath, and on panelling of various materials.
0612 Cementitious toppings	This worksection Template is applicable to cement-based toppings on concrete floors and steps. There is no relevant standard in Australia.
	0612p MAPEI in cementitious toppings
	0612p POLYFLOR KIESEL self-levelling cementitious toppings
0613 Terrazzo in situ	This worksection Template is applicable to in situ cementitious terrazzo flooring. There is no relevant standard.
0621 Waterproofing – wet areas	This worksection Template is applicable to waterproof membrane applications to wet areas and is written with reference to AS 3740 and AS/NZS 4858. It includes wet area membranes that are polyester or polyurethane, bituminous, acrylic systems and fibreglass reinforcement.
	0621p DUROTECH waterproofing - wet areas
	0621p MAPEI in waterproofing - wet areas
	0621p PARCHEM waterproofing - wet areas
0631 Ceramic tiling	This worksection Template is applicable to floor and wall ceramic tiling. Tiles may be specified by manufacturer's brand name or by generic type, and essential characteristics such as size, colour, surface, edge type. Bedding, grouting, fixing and jointing requirements should also be specified.
0632 Stone and terrazzo tiling	This worksection Template is applicable to stone tiling, industrial cast stone tiling, terrazzo tiling (cementitious and resinous) and manufactured cementitious tiling on various substrates.
0641 Applied wall finishes	This worksection Template is applicable to interior decorative wall finishes fixed using wet methods (adhesive/mortar fixed) or dry methods (framed/mechanical systems). It also includes decorative acoustic wall panels.

0642 Wallcoverings	This worksection Template is applicable to decorative interior wallcoverings of various materials and their installation including wallpapers, vinyl, textile, woven glass fibre and flexible timber wallcoverings.
0651 Resilient finishes	This worksection Template is applicable to resilient sheet and tile finishes with associated underlay including cork tiles, linoleum, corklinoleum, rubber, polyvinyl chloride (PVC), flexible terrazzo tiles and static control flooring. It also includes synthetic sporting surfaces.
	0651p AQURON CONCRETE SUBSTRATE TREATMENT in resilient finishes
	0651p GERFLOR in resilient finishes
	0651p POLYFLOR in resilient finishes
	0651p REGUPOL in resilient finishes
	0651p TARKETT in resilient finishes
0652 Carpets	This worksection Template is applicable to textile floor coverings (carpets) including carpet rolls, sheets and tiles with underlays, grippers and adhesives for commercial and residential applications.
	0652p TARKETT carpet tiles
0654 Engineered panel flooring	This worksection Template is applicable to manufactured floating and adhesive fixed panel floor systems on various subfloors and to sprung timber floors. It assumes the provision of a supporting subfloor or structure.
	0654p GERFLOR engineered sports flooring
0656 Floor sanding and finishing	This worksection Template is applicable to basic floor sanding of timber substrates for other finishes, basic floor sanding as the first stage preparation for clear coating systems, finish sanding for clear coating systems and the selection and application of clear coating systems.
0657 Resin based seamless flooring	This worksection Template is applicable to resin based flooring including epoxy, polyurethane and methacrylate resins. It also includes in situ resinous terrazzo flooring.
	0657p PARCHEM resin based seamless flooring
0671 Painting	This worksection Template is applicable to the in situ application of coating systems, including opaque paint and clear finishes to exterior and interior building elements. The primary referenced standard is AS/NZS 2311, a guide to products and procedures for the painting of buildings for domestic, commercial and industrial use.
	0671p DULUX painting
	0671p HAYMES painting
	0671p RESENE painting
	0671p TAUBMANS painting
	0671p WATTYL painting
0672 Textured and membrane coatings	This worksection Template is applicable to the in situ application of latex extensible (membrane) coating and textured surface coating systems to buildings and interior elements. The primary referenced standard is AS/NZS 2311 which provides a guide to products and procedures for the painting of buildings for general domestic, commercial and industrial use.
	0672p WATTYL – GRANOSITE textured membrane coatings
0673 Powder coatings	This worksection Template is applicable to the off-site application of thermoset powder coating systems for architectural applications, and to exterior and interior buildings elements. The primary referenced standards are AS 3715, AAMA 2603, AAMA 2604 and AAMA 2605 for aluminium and aluminium alloy substrates and AS 4506 for metal substrates, other than aluminium.

0701 Mechanical systems	This worksection Template covers mechanical services systems, performance requirements and standards. It includes a summary of the systems, design parameters relating to the mechanical systems and details common to more than one mechanical worksection.
0702 Mechanical design and install	<p>This worksection Template is applicable to simple mechanical installations for which the specification will be prepared by the architect and not a specialist mechanical consultant, the mechanical design being done by the contractor. It deals with packaged air conditioning systems (ducted and non-ducted) and straightforward mechanical ventilation.</p> <p>Design and construct specifications prepared by a specialist mechanical consultant should use 0703 Mechanical design and construct (Design) not this worksection.</p>
0703 Mechanical design and construct (Design)	<p>This worksection Template is applicable to the design component of mechanical services projects in which the design will be undertaken by the mechanical contractor. It covers the design process relating to design and construct with the design parameters covered in the respective worksections.</p> <p>This worksection assumes that the specification will be prepared by a specialist mechanical consultant. If the specification is prepared by an architect, not a specialist mechanical consultant use 0702 Mechanical design and install.</p>
0711 Chillers – combined	This worksection Template is applicable to factory assembled proprietary electric motor driven reciprocating, centrifugal, screw and scroll chiller sets including air cooled and water cooled, conventional and heat recovery types.
0712 Water heating boilers	This worksection Template is applicable to boilers not intended to produce steam, in which water is heated to less than its normal atmospheric boiling temperature and consequently do not meet the definition of a boiler in the BCA and AS/NZS 1200. Water heating boilers are used in space heating systems, indirect heated drinking water and similar applications.
0713 Cooling towers	This worksection Template is applicable to cooling towers normally used in commercial buildings. It is not intended for large specialised towers for heavy industrial plant. Evaporative condensers and closed circuit fluid coolers are included in this worksection and fall within the meaning of cooling tower as defined in AS/NZS 3666.1.
0714 Mechanical pumps	This worksection Template is applicable to end-suction centrifugal, inline circulating and submersible pumps. There are no comprehensive reference standards.
0715 Tanks, vessels and heat exchangers	This worksection Template is applicable to pressurised vessels and non-pressurised tanks and water to water plate heat exchangers. It includes head tanks (open and closed), water storage tanks for chilled and heating water, calorifiers and ice tanks.
0716 Chillers – centrifugal	This worksection Template is applicable to factory assembled proprietary electric motor driven water cooled centrifugal chiller sets.
0717 Chillers – water cooled screw	This worksection Template is applicable to factory assembled proprietary electric motor driven water cooled chiller sets with screw compressors.
0718 Chillers – air cooled screw and scroll	This worksection Template is applicable to factory assembled proprietary electric motor driven air cooled chiller sets with screw or scroll compressors.
0718p YANMAR gas powered chillers	This branded worksection Template is applicable to YANMAR gas powered, air cooled, scroll compressor chillers. It includes YANMAR chillers with heat pump and heat pump hot water recovery options.
0719 Chillers – absorption	This worksection Template is applicable to factory assembled proprietary single stage and two stage, water cooled, lithium bromide absorption chillers. This worksection is oriented to absorption chillers as part of systems which typically use relatively low temperature hot water as a heat source.

0721 Packaged air conditioning	This worksection Template is applicable to one piece and split, direct expansion (DX) packaged air conditioning plant with nominal cooling capacities greater than 8 kW(r). It includes air cooled and water cooled types, and variable refrigerant flow (VRF) systems as well as close control packaged plant.
	0721p YANMAR gas powered air conditioning
0722 Room air conditioners	This worksection Template is applicable to one piece and split direct expansion (DX), air cooled room air conditioning plant providing cooling only or with reverse cycle heating and with nominal cooling capacities less than 8 kW(r).
0723 Evaporative air coolers	This worksection Template is applicable to proprietary, non-refrigerated evaporative air coolers intended for ducted and free discharge applications. The reference standard is AS 2913.
0724 Air handling plant – combined	This worksection Template is applicable to all types of air handling plant from small room fan coil units to large built-up air handlers. It deals with proprietary air handling plant, site erected air handling units and site erected plenums associated with proprietary air handling plant. It also includes air to air heat exchangers and desiccant dehumidifiers.
0725 Air handling plant – built-up	This worksection Template is applicable to site erected air handling units and site erected plenums.
0726 Air handling plant – minor	This worksection Template is applicable to small room fan coil units.
0727 Air handling plant – packaged	This worksection Template is applicable to proprietary factory assembled air handling plant and includes site erected plenums associated with these.
0731 Fans	This worksection Template is applicable to centrifugal, axial flow, mixed flow and propeller fans, roof mounted fans and window/wall mounted fans of the type commonly used in air conditioning and ventilation systems.
0732 Air filters	This worksection Template is applicable to air filters commonly used in mechanical systems. It includes dry media dust filters (including HEPA, viscous impingement and electrostatic), grease filters and gas phase absorbers (e.g. activated carbon). It is based on AS 1324.1, AS 1324.2 (general air conditioning filters) and AS 4260 (HEPA and MEPA types).
0733 Air coils	This worksection Template is applicable to coils used in heating and cooling systems and includes water, steam and refrigerant coils.
0734 Humidifiers	This worksection Template is applicable to proprietary self-generating electric steam humidifiers that produce steam at atmospheric pressure. It may also be applied to humidifiers in packaged computer room air conditioning units. It does not apply to humidifiers that use a boiler as defined in AS 1228.
0736 Space heating	This worksection Template is applicable to space heating equipment including direct and indirect gas-fired duct heaters, electric and hot water floor heating, electric and hot water skirting convectors, electric unit heaters, fan assisted convectors, gas-fired radiant tube heaters, hot water panel radiators and infra-red panel heaters.
0741 Ductwork	This worksection Template is applicable to ductwork fabricated from galvanised steel, stainless steel and aluminium. It includes ductwork ancillaries such as flexible duct, duct fire-resistance level, dampers, fabricated hoods and canopies. The reference standards are AS 4254.1 (flexible duct) and AS 4254.2 (rigid duct). PVC-U ductwork, which is not covered by AS 4254.2, is also included.
0744 Ductwork insulation	This worksection Template is applicable to acoustic and thermal insulation and sheathing of ductwork. Insulating materials include glass wool, rock wool, polyester fibre, polyolefin foam and elastomeric foam. Facing materials include aluminium foil laminate and sheet metal. The worksection references AS 4254.1 and AS 4254.2.

0745 Attenuators and acoustic louvres	This worksection Template is applicable to duct mounted sound attenuators, wall mounted acoustic louvres and cross-talk attenuators.
0746 Air grilles	This worksection Template is applicable to fixed and adjustable air grilles, used in air conditioning and ventilation systems. The term air grille is used generically and includes diffusers, registers and weatherproof (exterior) louvres. The reference standard is AS 4254.2.
0747 Variable air volume terminals	This worksection Template is applicable to variable air volume (VAV) terminals (also called VAV boxes). It covers series and parallel fan assisted types and non-fan, pressure independent terminals. Also included are hot water and electric heating associated with VAV terminals.
0748 Chilled beams	This worksection Template is applicable to chilled beam terminals. It covers active and passive type terminals.
0751 Mechanical piping	This worksection Template is applicable to piping, valves, fittings and accessories commonly used for mechanical systems including chilled, condenser and heating water, steam, condensate, and liquid fuels. It covers piping in a variety of materials including steel, copper and plastic, and includes valves, fittings, supports, and accessories. The worksection is based on AS 4041. The worksection also covers strainers and isolating, non-return, throttling, level control, pressure relief, air relief, and pressure-reducing valves. It does not include thermostatic, solenoid, motorised modulating, or refrigerant valves.
0751p AQUATHERM in mechanical piping	
0752 Mechanical piping insulation	This worksection Template is applicable to the insulation and sheathing of piping, tanks, vessels and flues. It covers a variety of materials including biosoluble glass wool and rock wool, polyester, polyolefin, polystyrene foam and elastomeric foam.
0753 Water treatment	This worksection Template is applicable to water treatment for open and closed water systems and is intended for use in conjunction with AS/NZS 3666.1. The clauses for sand filters and water softener may be used for boiler feed water treatment. Cathodic protection for condenser water systems by impressed current and sacrificial anodes are also included.
0754 Liquid fuels	This worksection Template is applicable to fuel oil systems. It is intended for use in conjunction with AS 1940 which sets out the requirements and recommendations for the storage and handling of flammable and combustible liquids. The worksection covers components normally used in a fuel oil system including the storage tanks, pumps, piping, valves and accessories.
0755 Medical gas systems	This worksection Template covers non-flammable medical gas systems including medical breathing air, medical suction, oxygen, nitrous oxide, surgical tool gas and carbon dioxide. The reference standard is AS 2896. There are many instances where AS 2896 includes recommendations that are not Normative (e.g. expressed as should rather than shall). This worksection includes text to mandate these instances.
0761 Refrigeration	This worksection Template is applicable to built-up refrigeration systems. It is intended for use in conjunction with AS/NZS 5149.1, AS/NZS 5149.2, AS/NZS 5149.3 and AS/NZS 5149.4. It covers refrigeration equipment and components including piping, accessories, evaporators, condensers and compressors.
0762 Cool rooms	This worksection Template is applicable to refrigerated cool rooms with a room operating temperature below 5°C including those operating below freezing. It includes the construction of the room and its associated refrigeration system and controls.
0762p ASKIN XFLAM performance panels in cool rooms	
0762p DELTA PANELS in cool rooms	
0762p KINGSPAN INSULATED PANELS in cool rooms	

0771 Automatic controls	This worksection Template is applicable to large automatic control systems for mechanical services and includes hardware, software and cabling material. If used in conjunction with 0773 Building management systems and related worksections, it can provide a complete building management system (BMS) for building management, monitoring and control.
0772 Automatic controls - minor	This worksection Template is applicable to large automatic control systems for mechanical services and includes hardware, software and cabling material. If used in conjunction with 0773 Building management systems and related worksections, it can provide a complete building management system (BMS) for building management, monitoring and control.
0773 Building management systems	This worksection Template is applicable to Building Management Systems (BMS) which provide the facility to monitor, control and manage building services systems which may include mechanical services, power systems, lighting, fire detection and alarms, electronic security, hydraulic services and medical gas services. BMS operates through a system of discrete stand-alone controllers which are networked together using a common, open, communications protocol.
0781 Mechanical electrical	This worksection Template is applicable to electrical work associated with medium to large mechanical projects where the specification and selections will be prepared by a mechanical engineer.
0782 Mechanical electrical - minor	This worksection Template is applicable to the electrical work associated with minor mechanical projects using packaged plant and smaller ventilation systems. It is a simplified design and install type specification without selection schedules.
0784 Motors and starters	This worksection Template is applicable to alternating current electric motors, their starters and associated motor protection equipment. It includes a range of starter types including direct-on-line, star delta, semi-conductor and variable speed drives.
0791 Mechanical commissioning	This worksection Template is applicable to balancing, commissioning and testing of mechanical services including control systems. This worksection is written on the basis that a Commissioning Authority has not been engaged. If the principal requires a Commissioning Authority to oversee a commissioning process for the whole of the project, the worksection will require amendment under Commissioning Authority's direction. Use the Commissioning worksection in conjunction with this and other worksections to document the commissioning process on a project-wide basis.
0792 Mechanical maintenance	This worksection Template is applicable to periodic and statutory maintenance and emergency repairs of mechanical services systems during the defects liability period including plant, distribution systems, automatic controls and mechanical electrical installations. It can also be used to document requirements for maintenance contracts for existing buildings. It relies on there being an operation and maintenance manual for the building.
0801 Hydraulic systems	This worksection Template covers hydraulic services systems, performance requirements and standards. It includes a summary of the systems, design parameters relating to the hydraulic systems and details common to more than one hydraulic worksection.
0802 Hydraulic design and install	This worksection Template is applicable to simple hydraulic installations for which the specification will be prepared by the architect and not a specialist hydraulic consultant, the hydraulic design being done by the contractor. It deals with hot and cold water services, sanitary plumbing and drainage, stormwater, rainwater storage systems, greywater systems, natural gas and LP gas services installations.
0811 Sanitary fixtures	This worksection Template is applicable to the selection and installation of sanitary fixtures. It incorporates design for access and mobility standards AS 1428.1 and AS 1428.2 as well as the standards listed in the WaterMark Product Database.

0812 Tapware	This worksection Template is applicable to taps and tapware and includes related fittings such as towel rails and grab rails.
0813 Water heaters	This worksection Template is applicable to storage type water heaters and covers electric, gas, solar (with gas or electric boost) and heat pump types. It also includes small instantaneous water heaters. The reference standards are the AS/NZS 3500 series which are cited in the PCA.
0814 Hydraulic pumps	This worksection Template is applicable to pumps used in hot and cold water services and stormwater. The pumps in this worksection are all close-coupled type (i.e. they have no pump bearings). For direct-coupled pumps refer to 0714 Mechanical pumps.
0815 Boiling, chilled and filtered water dispensers	This worksection Template is applicable to boiling, chilled and filtered water dispenser systems.
0816 Tanks	This worksection Template is applicable to tanks used in hydraulic services. It covers non-pressurised rigid polyethylene, bladder, metallic coated steel and concrete tanks for above ground and underground installation.
0821 Stormwater – buildings	This worksection Template is applicable to stormwater systems related to buildings including internal stormwater piping for roof water and simple external systems. For stormwater drainage associated with pavements and other non-building projects normally designed by a civil engineer, use 0224 Stormwater – site.
0822 Wastewater	This worksection Template is applicable to sanitary plumbing (above ground) and sanitary drainage (below ground) for a range of applications including laboratories. On-site treatment is limited to septic tanks.
0823 Cold and heated water	This worksection Template is applicable to cold and heated (hot and warm) drinking water services including water for human consumption, food preparation, utensil washing and oral hygiene. It is also applicable in certain circumstances to non-drinking water services.
0824 Fuel gas	This worksection Template is applicable to installations for natural gas and other fuel gases such as liquid petroleum gas (LPG), tempered liquid petroleum gas (TLP) and simulated natural gas (SNG). The worksection does not cover appliances. The reference standard for this worksection is AS/NZS 5601.1. Liquefied natural gas (LNG) facilities are outside the scope of this worksection.
0825 Rainwater storage systems	This worksection Template is applicable to rainwater storage systems and ancillaries.
0826 Greywater systems	This worksection Template is applicable to systems and ancillaries for greywater (water from hand basins, showers, washing machines and the like not containing human excrement). The worksection covers both untreated (greywater diversion systems) and treated greywater systems.
0882 Hydraulic electrical - minor	This worksection Template is applicable to the electrical work associated with minor mechanical projects using packaged plant and smaller ventilation systems. It is a simplified design and install type specification without selection schedules.
0891 Hydraulic maintenance	This worksection Template is applicable to periodic and statutory maintenance and emergency repairs of hydraulic plant and reticulation systems during the defects liability period. It can also be used to document requirements for maintenance contracts for existing buildings. It relies on there being an operation and maintenance manual for the building.
0901 Electrical systems	This worksection Template covers electrical services systems, performance requirements and standards. It includes a summary of the systems, design parameters relating to the electrical systems and details, common to more than one electrical worksection.

0902 Electrical design and install	This worksection Template is applicable to simple electrical services installations, in which the specification will be prepared by the architect and not a specialist electrical consultant, the electrical design being undertaken by the contractor. It includes a summary of the systems and design parameters relating to the electrical installation.
0911 Cable support and duct systems	This worksection Template is applicable to cable support and duct systems that are common to a number of worksections such as 0921 Low voltage power systems and 0961 Telecommunications cabling. These include metallic and non-metallic conduits, cable trays and ladders. This worksection includes systems for use both within buildings and externally.
0921 Low voltage power systems	This worksection Template is applicable to the provision of low voltage power systems, associated low voltage power cables and conductors, and connected outlets and accessories.
0931 Power generation – engine driven	This worksection Template is applicable to the provision of proprietary packaged generating sets powered by reciprocating diesel or gas engines, and includes controls and ancillary equipment. They may be self-contained, enclosed external units, or installed singly or in groups inside a building.
0933 Power generation – photovoltaic	This worksection Template is applicable to the provision of photovoltaic generating systems incorporating storage batteries, inverter, protection, controls and ancillary equipment. It may be used for grid connected or stand-alone systems.
0937 Uninterruptible power supply	This worksection Template is applicable to battery driven, static uninterruptible power supplies (UPSs) designed to provide an instantaneous, short term 50 Hz power supply in the event of interruption to the normal power supply. It is not intended for direct grid connection.
0941 Switchboards – proprietary	This worksection Template is applicable to proprietary, off-the-shelf low voltage distribution switchboards using standard proprietary components and relies on AS/NZS 3000, AS/NZS 3439 series and AS/NZS 61439. It should be used in conjunction with the 0943 Switchboard components worksection.
0942 Switchboards – custom-built	This worksection Template is applicable to custom-built, low voltage switchboards. It should be used in conjunction with the 0943 Switchboard components worksection. This worksection provides a brief specification for the design, manufacture, installation and testing of low voltage custom-built switchboards. It relies on AS/NZS 3000, AS/NZS 3439.1 and AS/NZS 61439.1 as well as individual standards related to various components.
0943 Switchboard components	This worksection Template is applicable to protective and control devices and for the selection of switchboard components.
0947 Power factor correction	This worksection Template is applicable to microprocessor controlled power factor correction equipment.
0951 Lighting	This worksection Template is applicable to the components of the lighting system and includes proprietary (and refurbished proprietary) luminaires, lighting control systems and wiring requirements.
0961 Telecommunications cabling	This worksection Template is applicable to the provision of a telecommunications cabling network in commercial (non-industrial) buildings and relies on the Australian Communications and Media Authority (ACMA) technical standards AS/CA S008 and AS/CA S009. This worksection supplements the ACMA standards, and provides a general specification for a complete telecommunications block cabling and facility wiring system, including connection frames.
0962 Television distribution systems	This worksection Template is applicable to the provision of RF analog and digital television and sound system distribution systems and relies on AS/NZS 1367. The worksection is intended to supplement this standard and provide a general specification for commercial quality systems that would be installed in residential and commercial buildings. This includes the reception of broadcast band FM radio signals, analog and digital free-to-air television, and cable and satellite television broadcasts.

0963 Sound systems	This worksection Template is applicable to systems used for medium quality sound reinforcement for public address across campuses and sites and in simple halls and lecture theatres. It also includes the necessary provisions to comply with the NCC requirements for the hearing impaired.
0971 Emergency evacuation lighting	This worksection Template is applicable to the provision of emergency evacuation lighting and exit signs in buildings. It relies on the AS/NZS 2293 series. It is expected that the emergency lighting system has been designed and luminaires selected that meet the project requirements for lighting performance and electrical characteristics.
0979 Lightning protection	This worksection Template is applicable to the provision of lightning protection systems to achieve a tolerable level of risk for buildings. It relies on AS/NZS 1768 and assumes a system is required, following an assessment of risk or regardless of any risk assessment, when there is a desire to eliminate avoidable risk.
0981 Electronic security	<p>This worksection Template is applicable to the provision of access control and security alarm systems in buildings. It relies generally on AS 2201, and includes local alarm systems, centrally monitored systems, access control systems and closed circuit television (CCTV). The worksection is intended to supplement the standard and to cover general commercial grade systems, of the sort likely to be installed in office buildings, residential apartments, hospitals, nursing homes and similar buildings. The worksection can also be used for institutional projects such as schools and technical colleges by the inclusion of appropriate details in the project specification.</p> <p>See NATSPEC TECHreport TR 05 for an overview of IT systems required for buildings, how different IT system components are provided and the interrelationship of the relevant NATSPEC worksections.</p>
0991 Electrical maintenance	This worksection Template is applicable to periodic and statutory maintenance and emergency repairs of electrical services systems, during the defects liability period. It can also be used to document requirements for maintenance contracts for existing buildings. It relies on there being an operation and maintenance manual for the building.
1001 Fire services systems	This worksection Template covers fire services systems, performance requirements and standards. It includes a summary of the systems, design parameters relating to the fire services systems and details common to more than one fire services worksection.
1002 Fire services design and install	This worksection Template is applicable to simple electrical services installations, in which the specification will be prepared by the architect and not a specialist electrical consultant, the electrical design being undertaken by the contractor. It includes a summary of the systems and design parameters relating to the electrical installation.
1014 Fire services pumps	This worksection Template is applicable to pumps used in hot and cold water services and stormwater. The pumps in this worksection are all close-coupled type (i.e. they have no pump bearings). For direct-coupled pumps refer to 0714 Mechanical pumps.
1016 Fire services tanks	This worksection Template is applicable to tanks used in hydraulic services. It covers non-pressurised rigid polyethylene, bladder, metallic coated steel and concrete tanks for above ground and underground installation.
1030 Combined wet fire suppression systems	This worksection Template is applicable to automatic fire sprinkler systems conforming to the AS 2118 series. It may be used for both standard fire sprinkler systems and wall wetting sprinkler (drencher) systems.
1031 Hydrants	This worksection Template is applicable to fire hydrant installations, accessories, piping and installation either mandated by the NCC or required for other reasons. The worksection relies almost entirely on the referenced standards, many of which are statutory.

1032 Hose reels	This worksection Template is applicable to fire hose reels. It relies almost entirely on the referenced standards, many of which are statutory. For installation, AS 2441 (Installation of fire hose reels) is a deemed-to-satisfy standard under the NCC.
1033 Sprinklers	This worksection Template is applicable to automatic fire sprinkler systems conforming to the AS 2118 series. It may be used for both standard fire sprinkler systems and wall wetting sprinkler (drencher) systems.
1041 Gaseous fire suppression systems	This worksection Template is applicable to gaseous fire suppression systems, accessories, piping, installation and testing to AS 4214 and AS 6183.
1051 Liquid chemical fire suppression systems	This worksection Template is applicable to the specification of proprietary pre-engineered liquid chemical fire suppression systems. It has been drafted for the most common use of such systems, fire suppression of commercial kitchen equipment, to AS 3772. The worksection Template can be edited to suit if being used for alternative applications.
1072 Fire detection and alarms	This worksection Template is applicable to fire detection and alarm systems in buildings connected to a remote monitoring network. It covers associated equipment, such as door holders, and the connection to air handling systems where required. Also covered are addressable detector systems, where a data cable loop can be used to connect a mixture of thermal and combustion product detectors, to a common zone.
1073 Emergency warning and intercommunication	This worksection Template is applicable to the provision of building emergency warning and intercommunication systems (EWIS) and relies on AS 1670.4, AS 60849 and AS 4428.4. It is also to be used for occupant warning systems (OWS) which are a requirement of the NCC wherever a fire alarm system is included.
1082 Fire services electrical - minor	This worksection Template is applicable to the electrical work associated with minor mechanical projects using packaged plant and smaller ventilation systems. It is a simplified design and install type specification without selection schedules.
1091 Fire services maintenance	This worksection Template is applicable to periodic and statutory maintenance and emergency repairs of hydraulic plant and reticulation systems during the defects liability period. It can also be used to document requirements for maintenance contracts for existing buildings. It relies on there being an operation and maintenance manual for the building.
2011 Lifts design and install	This worksection Template is applicable to passenger lifts for use in buildings, other than private residences, up to four storeys. As a performance based (design and construct) worksection, it is intended for use if no specialist lift consultant is engaged.

INDEX

GENERAL

GEN 001 Getting help (Sept 05 - Amdt Oct 18)

Summarises the ways in which NATSPEC provides help to specification writers.

GEN 002 NATSPEC's use of standards (Oct 07 - Amdt Oct 15)

Discusses the use of Australian and other standards in specification writing.

GEN 003 Multiple contracts and 'work by others' (Oct 08)

Suggests ways in which NATSPEC can be used for projects procured using multiple contracts, also called packaged contracts or multiple prime contracts.

GEN 004 Shop drawings and samples (Oct 12 - Amdt Apr 15)

Addresses the need for shop drawings and samples, their management and the documentation of requirements in a construction contract.

GEN 005 Specifications (Jul 07 - Amdt Oct 12)

Discusses the roles, forms and importance of specifications.

GEN 006 Product specifying and substitution (Oct 07 - Amdt Oct 15)

Reviews generic and proprietary specification and NATSPEC's procedure for substitution of specified products.

GEN 007 Making sure your specifications are up-to-date (Dec 07 - Amdt Oct 16)

Offers updating strategies relating to NATSPEC information.

GEN 008 Branded versus generic worksections (Jul 08)

Defines both types of worksection and outlines their advantages.

GEN 009 Hold points and witness points (Apr 09 - Amdt Apr 19)

Defines hold points and witness points and explains their contractual implications in the context of both NATSPEC and AUS-SPEC worksections.

GEN 010 Mechanical commissioning strategies (Oct 09 - Amdt Apr 12)

Discusses alternative mechanical balancing and commissioning strategies which have a significant impact on the performance of mechanical services.

GEN 011 Specifying NCC requirements (Apr 10 - Amdt Apr 19)

Discusses specifying NCC compliance based on Deemed-to-Satisfy Provisions or by using a Performance (Alternative) Solution.

GEN 012 Door hardware scheduling (Oct 10 - Amdt Apr 11)

Outlines the two alternative approaches to specifying door hardware provided for in **SELECTIONS** in NATSPEC's *0455 Door hardware* worksection.

GEN 013 Specifying quality (Jan 12 - Amdt Apr 12)

Communicating the requirements for quality is the main technical function of the specification. This TECHnote outlines how NATSPEC is used to achieve quality in construction projects.

GEN 014 Submissions and testing (Oct 12 - Amdt Apr 16)

Addresses the specification of the various contractor's submissions and tests that may be required during the construction process.

GEN 015 Using the NATSPEC classification system to organise information (Apr 13 - Amdt Apr 16)

Discusses how the NATSPEC National classification system can be a useful means of organising construction information other than specification content.

GEN 016 Preliminaries and contract schedules (Oct 12 - Amdt Oct 18)

Aims to clarify items which are sometimes overlapping in the General conditions of contract and the specification's Preliminaries.

GEN 017 Using AUS-SPEC for asset management (Oct 12 - Amdt Apr 16)

Provides guidance on using the AUS-SPEC specification system for asset management.

GEN 018 Using AUS-SPEC for asset maintenance (Oct 12 - Amdt Oct 13)

Aims to describe the philosophy and components of the AUS-SPEC maintenance system for urban and open spaces, buildings and facilities, roadways, bridges and public utilities.

GEN 019 Using AUS-SPEC for contract documentation (Oct 14 - Amdt Apr 19)

Provides an overview on using AUS-SPEC for standard and period supply and service contract documentation for the life cycle management of assets.

INTRODUCTION

This is an index, with abstracts, of NATSPEC TECHnotes and TECHreports which are currently available.

TECHnotes are brief documents giving information on topics of interest to the design and construction industry.

TECHreports are in-depth reference documents on topics of interest to the design and construction industry.

CLASSIFICATION

Based on the classification system used for the Australian Institute of Architects (AIA) Environmental Design Guide, TECHnotes are grouped into three categories:

- General (GEN).
- Design (DES).
- Products (PRO).

AVAILABILITY

TECHnotes and TECHreports are available as follows:

- All TECHnotes and TECHreports, available at time of issue, are downloadable from NATSPEC – Technical Resources:
www.natspec.com.au/resources and provided on Subscriber CDs in the Acrobat documents section.
- Selected TECHnotes are distributed with SPECnotes.
- Selected TECHnotes are provided to the Australian Institute of Architects with a page of related questions and answers for their Continuing Education (CE) program.

INDEX

GEN 020 Building commissioning (Apr 13 - Amdt Oct 18)

Provides information on the process of whole-building commissioning and the role of a Commissioning Authority on a project, discussing how NATSPEC can be used for whole-building commissioning.

GEN 021 Scope of works clauses (Apr 17)

Discusses the benefits and risks of Scope of Works clauses and suggests approaches to writing an effective clause.

GEN 022 Using AUS-SPEC for asset delivery (Oct 16)

Describes the benefits of using AUS-SPEC in providing a documentation system for the delivery of assets, to meet essential services required by the community.

GEN 023 Using AUS-SPEC for management of unsealed roads (Oct 14 - Amdt Apr 19)

Provides guidance on using the AUS-SPEC specification system for the design, construction and maintenance of unsealed roads.

GEN 024 Using NATSPEC Selections schedules (Apr 15)

This TECHnote summarises NATSPEC's use of schedules.

GEN 025 Sprayed preservation surfacing treatments (Oct 17)

This TECHnote assists road owners in determining the most appropriate sprayed preservation surfacing.

GEN 026 Otta seal – A different approach for road sealing (Oct 18)

Aims to assist road owners to understand the feasibility of using Otta seal for low traffic volume unsealed gravel roads.

GEN 027 Maintenance of unsealed roads (Oct 18)

Aims to assist local road authorities to maintain low volume unsealed gravel roads.

GEN 028 Specifying recycled materials for road works using AUS-SPEC (Oct 19)

To assist local road authorities implement the use of recycled materials by including it in their policies, construction specifications and approval processes.

DESIGN**DES 001 Slip resistance performance (Oct 05 - Amdt Apr 18)**

Raises awareness of the design and documentation requirements for optimising slip resistance of pedestrian surface materials.

DES 002 Moisture content in timber floors (Dec 05 - Amdt Apr 13)

Addresses the ways in which the natural movement of timber floors can be accommodated.

DES 003 Fire hazard properties of insulation and pliable membranes (Jun 06 – Amdt Apr 18)

Addresses the fire hazard properties of insulation materials as dealt with in both the BCA and in NATSPEC.

DES 004 Air, moisture and condensation (Sept 05 - Amdt Apr 19)

Outlines the factors that affect the selection and detailing of vapour barriers in buildings.

DES 005 Preventing condensation on ducts and air handling plant (Dec 05 - Amdt Oct 18)

Addresses the use of insulation to prevent condensation on ducts and air handling plant.

DES 006 Specifying concrete (Jul 07 - Amdt Oct 18)

Outlines the factors affecting the performance of concrete and how to specify it.

DES 007 Static control floors (May 07 - Apr 17)

Discusses electrostatic charges and the basic types of static control floors.

DES 008 Preparation of concrete substrates (Oct 06 - Amdt Apr 15)

Discusses preparation of concrete substrates for secondary finishes.

DES 009 Limit state design (Apr 07 - Amdt Apr 11)

Introduces this method for designing and evaluating structures, and for unifying structural codes and standards.

ALPHABETICAL LISTING

Access for maintenance – TR 07

Air, moisture and condensation - DES 004

Airborne sound insulation - DES 032

Atmospheric corrosivity categories for ferrous products - DES 010

Branded versus generic worksections - GEN 008

Building commissioning – GEN 020

Bushfire protection - DES 018

CCA (copper chrome arsenate) treated timber-PRO 001

Ceramic tile and adhesive selection - PRO 004

Door hardware scheduling - GEN 012

Duct leakage and leakage testing - DES 033

Fire behaviour of building materials and assemblies - DES 020

Fire hazard properties of insulation materials - DES 003

Formaldehyde - indoor air quality - PRO 005

Getting help - GEN 001

Glass types used in buildings – PRO 006

Grass seeding and turfing- DES 028

Hold points and witness points - GEN 009

Impact sound insulation – DES 027

Improvement and stabilisation of unsealed roads - DES 035

Information classification systems and the Australian construction industry – TR02

Limit state design - DES 009

Living walls and roofs - DES 026

Maintenance of unsealed roads - GEN 027

Making sure your specifications are up-to-date - GEN 007

Mechanical commissioning strategies - GEN 010

Mechanical design and install HVAC checklist - DES 025

Mechanical services pipe and vessel insulation - DES 023

Microbial control - DES 022

Mineral wool - PRO 002

Moisture content in timber floors - DES 002

INDEX

DES 010 Atmospheric corrosivity categories for ferrous products (Apr15 - Amdt Apr 16)

Recommends a method for specifying atmospheric corrosion protection systems or products by referring to standards and the Corrosion Mapping System.

DES 011 Rainwater harvesting (May 07 - Amdt Oct 16)

Suggests ways in which a NATSPEC based specification can be used to specify a rainwater harvesting system.

DES 012 Using NATSPEC to specify BMS, and automatic controls (Oct 15 - Amdt 17)

Suggests ways to use NATSPEC worksections to specify Building Management Systems (BMS), building IT and automatic controls.

DES 013 NCC - BCA Energy efficiency protocol and software for housing (May 07 - Amdt Apr 19)

Discusses rating software and tools to demonstrate compliance with the NCC.

DES 014 Environmental rating schemes for buildings (May 07 - Amdt - Amdt Apr 19)

Outlines the national voluntary energy efficiency schemes.

DES 015 NCC - BCA Volume One: Energy efficiency provisions (May 07 - Amdt Apr 19)

Outlines NCC energy efficiency provisions for Class 2-9 buildings.

DES 016 NCC - BCA Volume Two: Energy efficiency provisions (May 07 - Amdt Apr 19)

Outlines BCA energy efficiency provisions for Class 1 and Class 10a buildings.

DES 017 Selection of sealants (Oct 06 - Amdt Oct 15)

Summarises sealant types and their use for different applications.

DES 018 Bushfire protection (Oct 08 - Amdt Apr 19)

Summarises the factors influencing bushfires and the planning, construction and maintenance requirements for bushfire protection.

DES 019 Pipe support spacing (Apr 09 - Amdt Oct 18)

Tabulates the pipe support spacings nominated by several Australian standards. It covers pipes of various materials and diameters, and carrying a range of liquids and gases.

DES 020 Fire behaviour of building materials and assemblies (Apr 11 - Amdt Oct 18)

Provides guidance on the BCA's classification of the fire behaviour of building materials and assemblies and where to specify in NATSPEC.

DES 021 Site electricity supply (Apr 13)

Highlights design and construction issues for consideration and suggests suitable NATSPEC worksections for the documentation of electricity supplies.

DES 022 Microbial control (Oct 10 - Amdt Apr 14)

Discusses the requirement for microbial control in building services and how this is dealt with in NATSPEC.

DES 023 Mechanical services pipe and vessel insulation (Oct 10 - Amdt Apr 19)

Addresses the selection of appropriate levels of insulation for piping, vessels and heat exchangers with curved surfaces.

DES 024 Water sensitive urban design (WSUD) (Oct 10 - Amdt Apr 19)

Outlines the objectives and application of water sensitive urban design principles and suggests where they can be implemented in AUS-SPEC.

DES 025 Mechanical design and install HVAC checklist (Apr 11)

Provides a checklist intended to assist the architect or building designer in the assessment of proposals for the design and installation of HVAC systems.

DES 026 Living walls and roofs (Apr 12 - Amdt Apr 15)

Highlights design and construction issues and suggests suitable NATSPEC worksections for the documentation of living walls and roofs.

DES 027 Impact sound insulation (Oct 12 - Amdt Apr 16)

Addresses the use of impact sound insulation in floor systems.

Multiple contracts and 'work by others' - GEN 003

Native grass lawns - DES 029

NATSPEC for refurbishment, retrofitting and adaptive re-use - TR04

NATSPEC's use of standards - GEN 002

NCC - BCA Volume One Energy efficiency provisions - DES 015

NCC - BCA Volume Two Energy efficiency provisions - DES 016

NCC Energy efficiency protocol and software for housing - DES 013

Otta seal - A different approach for road sealing - GEN 026

Pavement stabilisation for unsealed roads - DES 034

Pipe support spacing - DES 019

Preliminaries and contract schedules - GEN 016

Preparation of concrete substrates - DES 008

Preventing condensation on ducts and air handling plant - DES 005

Procurement: Past and present - TR06

Product specifying and substitution - GEN 006

Rainwater harvesting - DES 011

Refrigerant Options - PRO 007

Scope of works clauses - GEN 021

Selection and design of Building IT systems - TR05

Selection of sealants - DES 017

Seismic design actions on non-structural components - DES 030

Shop drawings and samples - GEN 004

Site electricity supply - DES 021

Slip resistance performance - DES 001

Specifications - GEN 005

Specifying concrete - DES 006

Specifying design and construct for mechanical services - TR03

Specifying ESD - TR01

Specifying NCC requirements - GEN 011

Specifying quality - GEN 013

Specifying R-Values - DES 031

Sprayed preservation surfacing treatments - GEN 025

Static control floors - DES 007

INDEX

DES 028 Grass seeding and turfing (Oct 12)

Provides guidance on the selection of grass seed mixes and turf species for general landscaping.

DES 029 Native grass lawns (Apr 13)

Discusses several of the native grass species suitable for lawn applications.

DES 030 Seismic design actions on non-structural components (Apr 14)

Discusses the requirements of AS 1170.4 for seismic restraint to the non-structural components of a building.

DES 031 Specifying R-Values (Apr 14 - Amdt Apr 19)

Describes the various meanings of R-Value and the ways in which designers and specifiers can document compliance with statutory requirements.

DES 032 Airborne sound insulation (Oct 14-Amdt Oct 18)

Addresses the use of insulation to reduce the transmission of airborne sound between habitable rooms.

DES 033 Duct leakage and leakage testing (Oct 14)

Discusses testing of duct systems to AS 4254.2 to reduce energy consumption and improve the quality of the service delivered.

DES 034 Pavement stabilisation for unsealed roads (Oct 15 - Amdt Oct 19)

Discusses factors affecting stabilisation of unsealed roads and provides basic procedure for binder selections.

DES 035 Improvement and stabilisation of unsealed roads (Oct 17- Amdt Oct 19)

Describes how existing unsealed roads can be economically and effectively preserved.

DES 036 Need for subsurface drainage on local roads (Oct 17)

Assists road owners in identifying the need for subsurface drainage on local roads.

PRODUCTS**PRO 001 CCA (copper chrome arsenate) treated timber (Oct 05 - Amdt Oct 15)**

Discusses the issues and alternatives to this form of timber treatment.

PRO 002 Mineral wool (Jun 06 - Amdt Oct 12)

Discusses the manufacture, properties and safety issues related to the use of mineral wool.

PRO 003 Warranties for steel protective paint coatings (Apr 12 - Amdt Oct 15)

Discusses the requirements for and availability of warranties for steel protective coatings.

PRO 004 Ceramic tile and adhesive selection (Oct 12 - Amdt Oct 14)

Provides guidance to specifiers on the selection of ceramic tiling and adhesives used for fixing the tiles.

PRO 005 Formaldehyde - indoor air quality (Apr 13 - Amdt Oct 18)

Discusses the effects and control of formaldehyde emissions within a building and how NATSPEC can be used to meet the mandatory requirements for formaldehyde emissions.

PRO 006 Glass types used in buildings (Oct 13 - Amdt Oct 16)

Provides guidance on the types of glass used in buildings, their properties and the manufacturing processes involved.

PRO 007 Refrigerants (Oct 16 - Amdt Apr 17)

Discusses the background and implications of Australia's phase-out of chlorofluorocarbon (CFC) and hydrochlorofluorocarbon (HCFC) refrigerants and the phase-down of hydrofluorocarbon (HFC) refrigerants, in conformance with international protocols and market forces.

Submissions and testing –
GEN 014

Subsurface drainage on local
roads - DES 036

Using AUS-SPEC for asset
delivery – GEN 022

Using AUS-SPEC for asset
maintenance - GEN 018

Using AUS-SPEC for asset
management - GEN 017

Using AUS-SPEC for contract
documentation – GEN 019

Using AUS-SPEC for
management of unsealed roads -
GEN 023

Using NATSPEC Selections
schedules – GEN 024

Using NATSPEC to specify BMS,
and automatic controls –
DES 012

Using the NATSPEC
classification system to organise
information – GEN 015

Voluntary environmental rating
schemes for buildings - DES 014

Warranties for steel protective
paint coatings - PRO 003

Water sensitive urban design
(WSUD) - DES 024

INDEX**TECHreports****TR 01 Specifying ESD (Apr 19)**

Outlines how a NATSPEC-based specification can be used to give effect to ESD principles and opportunities in the building context.

TR 02 Information classification systems and the Australian construction industry (Oct 08)

Provides an overview of the use of classification systems for organising construction information for various purposes.

TR 03 Specifying design and construct for mechanical services (Oct 18)

Outlines how NATSPEC may be used to prepare Design and Construct mechanical specifications.

TR 04 NATSPEC for refurbishment, retrofitting and adaptive re-use (Apr 19)

Outlines how a NATSPEC based specification may be used for refurbishment and adaptive re-use projects.

TR 05 Selection and design of Building IT systems (Oct 18)

Provides guidance on how the component parts can be configured and how a satisfactory overall IT installation can be achieved using NATSPEC worksections.

TR 06 Procurement: Past and present (Oct 14)

Outlines the major procurement systems used in the construction industry today, and how procurement has evolved from past methods.

TR 07 Providing access for maintenance (Apr 19)

Outlines the basic principles of providing access for maintenance, current requirements in Australian legislation and standards, and good practice.

TR 08 Management of Council gravel pits in country areas – A case study (Oct 18)

Outlines how Councils who operate licensed gravel pits can better comply with their duty of care and be compliant with State Government legal frameworks.

INDEX

BIM Documents

NATSPEC Project BIM Brief Template (Mar 16)

A Project BIM Brief documents the specific requirements of a project. It can be developed using the *NATSPEC Project BIM Brief Template*. In addition to identifying the project and members of the project team, it provides places to specify what BIM is to be used for on the project. It is also used to record what standards from the *NATSPEC BIM Reference Schedule* will apply. This arrangement allows the necessary flexibility for selecting references to suit the particulars of the project.

NATSPEC National BIM Guide (Sep 11 – Reconfirmed Mar 16)

The Guide's core document is a reference document that defines roles and responsibilities, collaboration procedures, approved software, modelling requirements, digital deliverables and documentation standards. It documents a range of possible uses for BIM on projects.

NATSPEC BIM Reference Schedule (Sep 11)

A list of documents and standards provided for consideration as references that can be cited in the *National BIM Guide*. The specific documents chosen to be applicable to a project are recorded in the Project BIM Brief.

BIM Management Plan Templates (Mar 16)

The Templates are editable Word files that can be used to create a BIM Management Plan (BMP) aligned with the *NATSPEC National BIM Guide*.

NATSPEC BIM Paper 001: BIM and LOD (Nov 13)

This BIM Paper provides an introduction to the concept of Level of Development (LOD) and its value in the management of the Building Information Modelling (BIM) process.

It includes recommendations about implementing LOD on projects and guidance on developing and interpreting LOD Tables.

NATSPEC BIM Paper 002: Getting Started with BIM (Jun 14)

This BIM Paper is for those who have been seriously considering implementing BIM within their organisation and are now asking 'What do we do next'? It covers the preparation and planning required by architectural or engineering personnel who want to make implementation happen. It provides generic guidance on the topic and discusses some of the decisions to be made and issues which need to be considered.

NATSPEC BIM Paper 003: BIM Project Inception Guide (Nov 14)

This BIM Paper assists clients working with their Lead BIM Advisor to clarify and define their BIM requirements at project inception for the purpose of engaging the project team and with the goal of maximising the value of BIM to the project. It is designed to be used with the *NATSPEC Project BIM Brief Template* and *NATSPEC National BIM Guide*.

The clear definition of BIM requirements prior to engagement allows consultants to scope and price their services more accurately when preparing bids, reducing the risk of having to renegotiate them later.

NATSPEC BIM Scheduling Guidelines (Dec 10)

These Guidelines summarise the findings of the 2010 NATSPEC BIM Scheduling project.

Part A sets out working principles for allocating properties to objects in digital models for scheduling purposes. The aim of these principles is to facilitate a consistent approach to scheduling and thereby improve information exchange in the construction industry.

Part B outlines general concepts associated with schedules that form the basis of the working principles set out in Part A.

CORPORATE INFORMATION

NATSPEC is the trading name of Construction Information Systems Limited, ABN 20 117 574 606.

NATSPEC, founded in 1975, is a national not-for-profit organisation that is owned by the design, build, construct and property industry through professional associations and government property groups. It is impartial and is not involved in advocacy or policy development.

NATSPEC's major service is the provision of the comprehensive national specification systems endorsed by government and professional bodies. NATSPEC, the National Building Specification, is for all building structures, with specialist packages for architects, interior designers, landscape architects, structural engineers, service engineers and domestic owners. AUS-SPEC is the Local Government specification system for the life-cycle management of assets. Packages include Rural Roads, Urban and Open Spaces, Roadworks and Bridges, Public Utilities, and Maintenance. NATSPEC is also the publisher of the National BIM Guide and associated documents.

NATSPEC's objective is to improve the construction quality and productivity of the built environment through the leadership of information.

STAKEHOLDERS

// Air Conditioning and Mechanical Contractors'
Association of Australia

// Australian Elevator Association

// Australian Institute of Architects

// Australian Institute of Building

// Australian Institute of Building Surveyors

// Australian Institute of Quantity Surveyors

// Chief Minister, Treasury and Economic Development
Directorate (ACT)

// Construction Industry Engineering Services Group

// Consult Australia

// Department of Finance (Federal)

// Department of Finance (WA)

// Department of Finance, Services and Innovation (NSW)

// Department of Housing and Public Works (QLD)

// Department of Infrastructure, Planning and Logistics
(NT)

// Department of Planning, Transport and Infrastructure (SA)

// Department of Treasury and Finance (TAS)

// Department of Treasury and Finance (VIC)

// Engineers Australia

// Master Builders Australia

// Standards Australia

CONTACT INFORMATION

PHONE	1300 797 142
FAX	1300 797 143
EMAIL	mail@natspec.com.au
WEB	www.natspec.com.au