

ARCHITECTURAL SPECIFICATION

(STANDARD DOMESTIC)

For work and materials to be
used in the Construction of

PROJECT: 2X SINGLE STOREY RESIDENCE

CLIENT: M & J CARTER

SITE ADDRESS: 14 BAKER AVENUE
MORPHETTVILLE SA 5043

PROJECT NO: 18.CAR.2

PREPARED BY: FERRONE ARCHITECTS PTY LTD
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WINGFIELD S.A. 5013



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STANDARD DOMESTIC BUILDING SPECIFICATIONS

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SITE DETAILS

BUILDER TBA

ACN **Builders Licence No.**

OWNER M & J CARTER

THE SITE **Allotment No** **House No** 14
Street or Road BAKER AVENUE
Town or Suburb MORPHETTVILLE SA 5043
Certificate of Title Volume 5397 **Folio** 75

STANDARD DOMESTIC BUILDING SPECIFICATIONS

1 INTRODUCTION

1.1 General

This Specification details the works to be executed and the materials to be used in carrying out those works at the Site.

This Specification shall be read as a general specification only. The parts of the Specification which refer to the works not being carried out shall not apply and shall be disregarded. The extent of the works shall be governed by the Plans, Special Details and the Building Schedule.

Any works not fully detailed shall, where appropriate, be sufficiently performed if carried out in accordance with applicable Manufacturer's Recommendations or Engineer's Recommendations.

1.2 Preliminary Use

This specification forms part of the Building Contract Documents, and should be read in conjunction with the Building Contract, Building Schedule, Engineer's Reports, Plans and any other Special Details.

1.3 Prevailing Documents

To the extent of any conflict between documents the following order of precedence shall apply: The Building Contract, the Special Details (including Engineer's Recommendations), Variations, Plans, the Building Schedule and this Specification.

1.4 Sizes and Dimensions

All sizes and dimensions given in this Specification are in millimetres, unless otherwise stated.

1.5 Definitions

"Special Details" in respect of any item or part of the Works means any drawings, plans, specifications, calculations or other document (including Engineer's Recommendations) prepared in order to define or detail the work to be done and the materials to be used.

"Engineer's Recommendations" includes any Soil Classification Report, Preliminary Footing Report, Construction Footing Report and any other Report, Recommendation, site or other instruction, calculations or plans prepared by an Engineer in respect of the Works.

"Local Authority" shall mean the Local Municipal Council or other Governing Authority including private certifier with statutory responsibility for the compliance of the work performed.

"BCA" means Volume 2 of the National Construction Code Series, Building Code of Australia Class 1 and Class 10 Buildings, also known as the 'Housing Provisions'.

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“PCA” means Volume 3 of the National Construction Code Series, Plumbing code of Australia.

1.6 Australian Standards

A reference in this specification to an Australian Standard is intended to be a reference to the particular Standard including any amendment or replacement of that Standard as referred to in the *BCA*.

2 STATUTORY REQUIREMENTS

2.1 The Works

The Works shall be constructed in accordance with the *BCA*. Where it is proposed to use an alternative solution to meet the performance requirements of the *BCA*, details of the approval material, system or method will be attached to this Specification and shall be detail on approving documentation (approved by the *Local Authority*).

All tradespersons shall be appropriately licensed in accordance with the Building Work Contractor’s Act and Regulations.

2.2 Energy Efficiency

The Building shall comply with the minimum energy efficiency requirements of the *BCA*.

2.3 Materials

Unless otherwise specified, materials used throughout these works shall be new or merchantable quality and fit for purpose and be in general conformity to the applicable Specifications and Codes of Practice laid down by the *BCA*, Australian Standards where referenced by the *BCA*, or any amendments thereto at the time of Development Approval.

Defective materials shall be rectified or removed from the Site.

Building materials surplus to requirements for the Works shall be and remain the property of the Builder.

2.4 Site Signage

The Builder, prior to commencement of the Works, shall install or erect a sign on the Site displaying the Builder’s name as it appears in the licence and licence number, and after hours contact details.

2.5 Sanitary Accommodation

Prior to the commencement of any works, unless toilet facility exists on Site, the Builder shall provide a sanitary convenience in accordance with the requirements of the South Australian Work Health & Safety Act 2012 and Work Health & Safety Regulations 2012.

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3 OWNERS OBLIGATIONS

3.1 Surveyor's Certificate

If the Building Contract or Building Schedule so requests or indicates, the Owner shall, at the Owner's expense, obtain a certified survey of the Site. If no survey is requested the Owner hereby certifies that the placement of the existing survey pegs or fences on the Site is correct.

3.2 Engineer's Recommendations

If the Building Contract or Building Schedule so requests or indicates, the Owner shall at the Owner's expense, provide the Builder with reports and recommendations (including soil classifications) as to the foundations and/or footings requirements for the Works prepared by an Engineer.

If the Builder instructs any party to provide such recommendations, the Builder does so only as an agent for the Owner.

3.3 Tradesmen Engaged by Owner and Building Work Carried out by the Owner

3.3.1 Owner's Responsibility

The Owner shall not engage or employ any tradespersons, sub-contractor, building consultant or any other person to work on Site without the written consent of the Builder, which consent may be subject to such terms and conditions as the Builder may stipulate.

3.3.2 Owner's Trades and Supplies Statements Certificates Guarantees Warranty

Where the building Owner engages or employs any tradesperson, subcontractor or any other person, or carries out building work themselves, the Owner shall be responsible to provide to the approving authority the statement of compliance as required in the Development Act and Regulations and to comply with all other statutory requirements.

3.4 Water Supply

The Owner shall, at the Owner's expense, supply adequate water to the Site for construction purposes. The Owner shall be responsible for any fee to be paid, including any water consumed.

3.5 Electricity

The Owner shall be responsible for any fee to be paid including any electricity consumed.

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3.6 Gas

The owner shall be responsible for any fee to be paid regarding gas connections and supply.

3.7 Sanitation

Unless otherwise specified, the owner shall, at the Owner's expense, supply a sewerage connection riser or common effluent drainage connection riser to the Site. The Owner shall be responsible for any fee to be paid regarding sewer connections and supply.

3.8 Site Clearance

Unless otherwise specified, the Owner shall seek all necessary permits to remove any trees, pay all such fees and remove at the Owner's cost in all things all trees and other obstructions above and below ground level including total removal of all existing services, grub out all stumps and roots in the area of that part of the Site.

The clearance works are to be carried out to a minimum distance of 1.0m clear of the proposed building, and/or to the boundaries of the Site, whichever is the lesser. In particular, the provision of additional mechanical equipment to remove stumps and roots is not included in the Contract Price. The Owner shall be responsible for the cost of the same. The Owner shall also be responsible for the cost of the provision of any extra fill compaction or concrete required as a result of the removal of any stump, root or obstruction, unless otherwise specified in the Building Contract or Schedule.

3.9 Contaminated Soil

Where contamination is discovered all costs associated with the assessment, testing, removal, transportation and disposal of any contaminate and replacement of such, unless otherwise stipulated is the responsibility of the Owner.

3.10 Telephone/Communication Service Wiring

Unless otherwise stated in the Building Schedule, the Owner shall be responsible for the costs of wiring and connection of an approved telephone systems data cabling and home automation systems.

3.11 Spoil Removal

Unless stated otherwise in the Schedule, the removal of spoil shall be the responsibility of the Owner.

3.12 Statements, Certificates, Guarantees, Warranty

The Builder shall be provided with any copies of the Development Approval, the approved documentation and any conditions of approval before commencing work and undertakes to comply with the requirements therein. The Builder will submit such documents as is required by the Development Act during construction. At the time of the final handover (provided that the Owner is not in breach of the contract between the parties) the Builder will hand over to the Owner all documents necessary to comply

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with the Development Act, and all other statutory requirements including but not limited to, water, health, power and termite certificates. The Builder will also deliver up to the Owner any instruction sheets, guarantees, warranty and correctly labelled keys.

4 PLANS, PERMITS AND APPLICATION FEES

4.1 Permits and Fees

Unless otherwise agreed the Builder shall lodge all necessary application notices, plans and details with the *Local Authority* for approval prior to commencement of construction.

4.2 Plans – Check Development Act and Regulations (Scales)

Plans, where appropriate, shall depict the information listed below in a recommended scale. The said plan shall indicate the sizes of rooms on the Plans and measurements before plastering or wall linings. Where any discrepancy exists between the measurements by scale on the drawings, the figured or written dimensions shall be taken as correct.

Drawing	Information	Recommended Scale
Floor plan	Dimensions of rooms, positions and size of openings, overall size of the building, plumbing fixtures and control joints	1:100
Elevations (4)	Footings, floor and ceiling levels, openings, sill heights, window heights and wall sheathing	1:100
Cross section	Showing methods of construction	1:50
Timber	Wall and roof layout, dimensions and timber sizes	1:100
Footing plan	Footing layout, footing sizes and reinforcement details	1:100
Site plan	Position of the work on Site and distances from boundaries, dimensions of the site, easements	1:500
Details	Drawings describing elaborate work and/or unusual constructions as appropriate	1:20
Site Works plan	Dimensions of the site, layout of street/road drainage system, paving, fences (existing and proposed), easements, kerb levels, kerb inverts, ETSA Electrical connection points, retaining walls, contours, existing structures and trees (including those in adjoining properties), sewer or CED connection point and invert levels, roof	1:200

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	and site drainage, bench levels, datum point and floor levels.	
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Windows and door framing dimensions may vary slightly from nominal sizes shown due to manufacturing tolerances and from manufacturer to manufacturer.

5 SITE WORKS

5.1 Setting Out

The Builder shall accurately set out the Works.

5.2 Excavations

Subject to Clause 3.7 the Site covered by the building and an area at least 1,000mm wide around the building or to boundaries of the Site whichever is the lesser shall be cleared and/or graded as indicated on the Site Works Plan.

Top soil shall be cut to a depth sufficient to remove all vegetable matter so as to allow construction to proceed.

Excavations for all footings shall be in accordance with the Engineer's Recommendations.

6 FOUNDATIONS AND FOOTINGS

6.1 Underfloor Fill

Underfloor fill shall be in accordance with the structural engineer's requirements or AS 2870.

6.2 Termite Treatment

Termite barrier systems shall be installed in accordance with the Building Schedule and/or the criteria set out in the provisions of the *BCA* for primary building elements susceptible to termite attack.

Supplementary termite barrier systems shall be installed and comply with AS 3660.1.

6.3 Under Slab Vapour Barrier

The under slab vapour barrier must be 200UM branded high impact resistant polyethylene film in accordance with the provisions of the *BCA*.

6.4 Reinforcement

Reinforcement shall conform and be placed in accordance with AS 3600, AS 2870 and/or the Engineer's Recommendations.

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6.5 Bearers, Piers and Stumps and Dwarf Walls

Bearers, piers and stumps and/or dwarf walls may be used in accordance with the Engineer's Recommendations or *BCA*.

6.6 Concrete

Structural concrete shall be in accordance with AS 3600.

6.7 Footings and Slabs on Ground

All concrete slabs and footings shall be constructed in accordance with AS 2870.

Finished floor levels shall be in accordance with the Engineer's Recommendations (where applicable).

NOTE: Bench levels and floor levels on the Site Works Plan shall be regarded as nominal, unless specified otherwise.

6.8 Suspended Slabs

All concrete slabs, other than those supported on solid ground or properly compact filing, shall be constructed as suspended slabs. These slabs shall be constructed in accordance with the Engineer's Recommendations.

6.9 Embedded Pipes, Set Downs

Where pipes are to be embedded or set downs provided in the slab, the slab shall be constructed as specified by the Engineer.

6.10 Sub-Floor Ventilation

Adequate sub-floor ventilation shall be in accordance with the *BCA*.

6.11 Edge Rebates for Masonry

Edge rebates where necessary shall be a minimum of 20mm depth in accordance with the AS 2870 or as per Engineer's Recommendations.

6.12 Curing

All slabs shall be cured in accordance with AS 3600.

6.13 Service Trenches

Where trenches to existing or proposed services occur adjacent to the proposed building work, the depth of any parallel or near parallel footing shall be such that the outside lower corner of the footing will fall outside a line drawn up from the adjacent corner of the service trench at an angle of 45°.

7 RETAINING WALLS

7.1 Retaining Walls

Retaining walls where required shall be constructed in accordance with the technical details and specifications outlined in the Building Schedule and/or Contract

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Documentation, but shall not be located within any easements on the property without the approval of the owner of the easement.

8 EFFLUENT DISPOSAL/DRAINAGE

8.1 Sewer

Shall be in accordance with regulations pursuant to the Water Industry Act 2012 and the PCA.

8.2 Septic System

In unsewered areas, sanitary and drainage plumbing and the septic system shall be carried out in accordance with the minimum requirements of the Department of Health or the *Local Authority*, whichever has authority in respect of this matter given the particular location of the Site.

9 TIMBER FRAMING GENERALLY

9.1 Timber Framing

All timber framing shall comply with the requirements of AS 1684 or AS 1720 and shall be approved by the *Local Authority*.

9.2 Timber Posts

Posts supporting carports, verandahs and porches shall be supported on galvanised or treated metal posts shoes.

9.3 Hot Water Storage Tank Platforms

Where a hot water storage tank is to be installed in the roof space, the tank platform shall be supported directly on wall plates and must not be supported on ceiling joists, or roof trusses. The platform shall be constructed to meet the following requirements:

- Material not inferior to hardwood timber.
- Battens of a nominal thickness of 25mm and 75mm width.
- Having a maximum space of 25mm between battens. The battens shall cross the heater platform supports at right angles.
- Platform bearers under the battens shall be spaced at not more than 450mm centres.
- All hot water services installed in the roof space shall be fitted with an appropriate spill tray and overflow drain pipe.

Solar Hot Water Services shall not be installed on top of the roof framing including roof trusses, unless the framing has been specifically designed to support the additional loads.

10 Steel Framing Generally

10.1 Steel Framing

Steel floor, wall or roof framing approved by the Local Authority shall be installed in accordance with the manufacturer's recommendations, and documents certified by an independent technical expert.

11 ROOFING

11.1 Tiled Roofing

Concrete and terracotta tiles shall comply with AS 2049 and be installed in accordance with AS 2050. Otherwise roof tiles shall be installed in accordance with the manufacturer's specifications.

11.2 Steel Roofing

Steel roofing shall be manufactured in accordance with AS 1397, AS 1445 and AS 1562.

Except where design prohibits, sheets shall be in single lengths from fascia to ridge. Fixing of sheets shall be strictly in accordance with the manufacturer's recommendations.

Where the Site is within 1km of the sea the Builder shall consult the manufacturer of the steel roofing as to the suitability of the product for that location and comply with the manufacturer's recommendations (if any).

11.3 Metal Shingles and Aluminium Tiles

Shingles and aluminium tiles shall be fixed in accordance with the manufacturer's recommendations.

11.4 Metal Rainwater Goods

Rainwater goods shall be manufactured to comply with AS 2179 for metal, and AS 1273 for uPVC products. All water supply systems must be designed, installed and maintained to prevent contaminants from being introduced into the potable water supply system. Cross connection control and backflow prevention shall comply with the *PCA*.

11.5 Sarking

Sarking under roof coverings must comply and be fixed in accordance with AS 1736.

Note: Sarking may be required where the building is to be constructed in a Declared Bushfire Prone Area and meet the requirements of the BCA.

11.6 Sealants

Sealants shall be compatible with the products and paints to be used and installed as per manufacturer's recommendations.

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11.7 Flashings

Flashings shall comply with AS 2904.

Flashings shall be provided around chimney stacks, vent pipes, skylights, all roof penetrations (e.g. air conditioning ducts), down roof slopes abutting masonry walls, canopies and wherever else required.

Unless windows have incorporated self-flashings they shall be flashed under their sills for their full length.

Sheet lead shall not be less than 15kg per square metre unexposed to sunlight and 20kg per square metre where exposed to sunlight in accordance with AS 1804. Lead flashings shall be dressed down onto roof slopes, and vertical faces embedded a minimum of 15mm into masonry to comply with Clause 3.2 of AS 3700, and pointed with mortar (or flexible caulking compound in accordance with the manufacturer's recommendations).

12 MASONRY

12.1 Bricks

All clay and concrete bricks and blocks shall comply with AS 4455 and 4456.

12.2 Concrete Blocks

Concrete blocks are to be machine pressed, of even shape and well cured.

Autoclaved Aerated Concrete blocks shall be manufactured in accordance with the Manufacturer's Product Specification.

12.3 Damp Proofing

All damp proof membranes shall comply with the requirements of the *BCA*.

Where fill or concrete floors and paving abut masonry walls and concrete footings, a vertical damp proof membrane shall be provided between them.

12.4 Weep Holes

Cavities shall be cleared of all mortar droppings and weep holes where required should not exceed 1200mm centres or in accordance with AS 4773.

12.5 Mortar and Jointing

Mortar shall comply with AS 3700 and or AS 4773.

Joint tolerances shall not be outside the provisions of AS 3700.

12.6 Wall Ties and Masonry Anchors

All wall ties shall be manufactured in accordance with AS 2699 and be installed in accordance with AS 3700 and or AS 4773. Wall ties shall be protected against corrosion in accordance with the *BCA*.

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Masonry anchors shall be installed in accordance with manufacturer's recommendations.

12.7 Lintels

12.7.1 Mild Steel Lintels

Mild steel lintels may be used for openings in wall carrying brickwork and roof loads, in accordance with the table below.

12.7.2 Individual designs shall be carried out for:

- Spans over 3 metres
- Lintels supporting over 900mm height of brickwork
- Lintels supporting upper floors,
- Lintels supporting girder trusses or similar point loads form strutting beams,
- Lintels supporting roofs with EL greater than 10 metres.

12.7.3 Arch Bars

50mm x 10mm mild steel arch bars, with 90mm end bearing, may be used for openings up to 900mm wide.

12.7.4 Angles

Angle irons may be used as lintels in accordance with the Table below:

Maximum Openings (mm)	Steel Size (mm)	Min. Bearing each end (mm)
Flat Bar		
490	75x8	100
610	75x10	100
Steel Section Angles		
3010	90x90x6 EA	150
3010	90x90x8 EA	150
3130	100x100x6 EA	150
3370	100x100x8 EA	150
4210	150x90x8 EA	150
4330	150x100x10 UA	150

12.7.5 Corrosion Protection

All built in structural steel members, such as lintels, shelf angles, arch bars, connectors, accessories (other than wall ties) and the like shall have the appropriate corrosion protection in accordance with the *BCA*.

13 CLADDING AND LININGS

13.1 External Claddings and Linings

Cement Fibre Board (CFB) and other external cladding shall be fixed in accordance with the manufacturer's recommendations and any applicable special details.

13.2 Internal Wall and Ceiling Linings

Wall and ceiling frames (except wet area walls) may be covered with 10mm Gypsum Plasterboard. Gypsum Plasterboard shall be manufactured and installed in accordance with AS 2588, AS 2589 and AS 2592. Where disappearing window screens are used the internal wall lining is to be protected with a waterproof membrane.

The lining of wet area walls in brick veneer and timber frame buildings shall be installed in accordance with AS 3740 and Minister's Specifications SA F1.7 and manufacturer's recommendations.

Other internal linings may be used in accordance with the Plans and Building Schedule and fixed in accordance with the manufacturer's recommendations.

Where required in open verandahs, porches and eaves soffits, ceilings of Cement Fibre Board shall be installed. The personal access cover shall be of like material to the adjacent ceiling. Suitable cornice moulds where required, shall be fixed at the junction of all wall faces with ceilings.

13.3 Solid Plastering, Rendering and Applied Finished Coatings

Except where finished brickwork/block work is used, all internal wall surfaces shall be floated and set to minimum thickness of 12 mm or unless otherwise specified.

Plastering of Autoclaved Aerated Concrete cladding any other external cladding material shall be carried out in accordance with the manufacturer's specifications, guidelines or recommendations.

External walls shall be rendered to a thickness of 12 mm or unless otherwise specified.

Applied finished coatings shall be installed in accordance with manufacturer's recommendations.

13.4 Insulation

Where specified in the Building Schedule, insulation shall be installed in ceilings (except ceilings in eaves, verandahs, porch and carports) and walls in accordance with the energy efficiency requirements of the BCA.

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14 JOINERY

14.1 General

All joinery work (metal and timber) shall be manufactured and installed according to good trade practices.

14.2 Door Frames

Proprietary door frames and jambs must be installed and completed with all flashings and in accordance with manufacturer's recommendations.

14.3 Doors and Doorsets

All internal and external door and door sets shall be installed as per manufacturer's recommendations and relevant Australian Standards.

14.4 Windows and Sliding Doors

Windows and sliding doors shall be manufactured in accordance and installed as per *BCA* requirements.

All glazing shall comply with the requirements of the *BCA*.

14.5 Cupboards

Cupboards shall be supplied and installed as per Building Schedule.

15 SERVICES

15.1 Plumbing

All plumbing shall be in accordance with regulations pursuant to the Water Industry Act 2012 and the National Construction Code Volume Three, including SA variations.

15.2 Electrical

All electrical work shall comply with AS/NZS 3000, and the Electricity Act 1996, and the ETSA Utilities Service and Installation Rules.

Unless otherwise specified the electrical service shall be 240 volt, single phase supply.

15.3 Smoke Detectors

Smoke Detectors shall comply and be installed as per the requirements of the *BCA*.

15.4 Gas

All installations (including LPG) shall be carried out in accordance with AS 5601 and the Gas Act 1997.

16 TILING

16.1 Materials

Cement mortar and other adhesives shall comply with AS 3958.1.

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16.2 Installation

Installation of tiles shall be in accordance with AS 3958.1. Brass angles may be fitted across doorways to comply with wet area waterproofing requirements.

All tiling to wet areas shall comply with the requirements of AS 3740 and the Minister's Specification SA F1.7 including the falls, set downs, water proofing and flexible sealants.

17 Painting

17.1 General

All paints shall be applied as per manufacturer's recommendations. The colours used shall be as specified in the Building Schedule.

18 Bushfire Prone Areas

18.1 General

Where the building is to be constructed in a Declared Bushfire Prone Area, adequate protection must be carried out in accordance with the requirements as per the *BCA*.

19 Earthquake Loads

19.1 Earthquake Loads

Anchorage requirements for earthquake loads shall be installed as per engineer's recommendations.

20 Alternative Solutions

20.1 Alternative Solutions

The Works shall be constructed in accordance with the current edition of the *BCA*. Where it is proposed to use an alternative solution to meet the performance requirements of the *BCA*, details of the approved material, system and/or method will be attached to this specification.

21 Australian Standards

The documents listed below are referenced to in the *BCA* and shall be taken as the latest current edition.

AS/NZS 1170	Structural design actions
AS/NZS 1200	Pressure equipment
AS 1273	Unplasticised PVC
AS/NZS 1276	Acoustics
AS 1288	Glass in buildings
AS 1289	Methods of testing soils for engineering purposes

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AS 1397	Steel sheet & strip
AS 1530	Methods for fire tests on building materials
AS 1562	Design and installation of sheet roof and wall cladding
AS 1657	Fixed platforms, walkways, stairways and ladders
AS/NZS 1664	Aluminium structures
AS 1668	The use of mechanical ventilation and air conditioning in buildings.
AS/NZS 1680	Interior lighting
AS 1684	Residential timber framed construction
AS 1720	Timber structures
AS 1926	Swimming pool safety
AS 2047	Windows in buildings
AS 2049	Roof tiles
AS 2050	Installation of roof tiles
AS 2159	Piling
AS/NZS 2179	Installation of rainwater goods, accessories and fasteners
AS/NZS 2269	Plywood structural
AS 2327	Composite structures
AS/NZS 2699	Built in components for masonry construction
AS 2870	Residential slabs and footings
AS/NZS 2904	Damp proof courses and flashings
AS/NZS 2908	Cellulose cement products
AS/NZS 2918	Domestic solid fuel burning appliances
AS/NZS 3000	Wiring rules
AS/NZS 3600	Concrete structures
AS 3660	Termite management
AS 3700	Masonry structures
AS 3740	Waterproofing of wet areas in residential buildings
AS 3786	Smoke alarms
AS 3959	Construction of buildings in bush fire prone zones
AS 4055	Wind loads for Housing Industry Association Ltd
AS 4072	Components for the protection of openings in fire – resistant separating elements
AS 4100	Steel structures

STANDARD DOMESTIC BUILDING SPECIFICATIONS

AS/NZS 4200	Pliable building membranes and underlays
AS/NZS 4234	Heated water systems
AS 4254	Ductwork for air handling systems in buildings
AS 4256	Plastic roof and wall cladding material
AS 4552	Gas fired water heaters
AS/NZS 4600	Cold – formed steel structures
AS 4654	Waterproofing membranes for external use
AS 4773	Masonry for small buildings
AS/NZS 4858	Wet area membranes
AS/NZS 4859	Materials for the thermal insulation of buildings
NASH STANDARD	Residential and low rise steel framing