

**BUILDING CONSENT**

**GRANTED**  
**28/03/2022**

**HUTT CITY COUNCIL**



# SPECIFICATION

of work to be done and materials to be used in carrying out the works shown on the accompanying drawings

## Franz Josef Specification

(project name)

## Lot 55, 57, 61, 66, 72 Kelson Heights, Kelson, Lower Hutt, New Zealand

(project address)

## Friday Homes

(client)

Project Ref: 18072

Date: 10 December 2021

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# 1210 PROJECT.

## 1 GENERAL

### 1.1 PROJECT

Street address:	Lot 55, 57, 61, 66, 72 Kelson Heights
Legal description:	Lot 55, 57, 61, 66, 72 DP TBC
Site area:	Refer Arch Plans
Project type:	New building
Intended use:	Single residential building
Intended life:	Indefinite but not less than 50 years

### 1.2 PROJECT DESCRIPTION

New single storey 3 bedroom dwelling with Linea weatherboards, schist veneer and corrugated Colorsteel roofing. Firth RibRaft foundations, trusses by truss manufacturer. Services to be connected include foul water, stormwater, water supply, power, phone and gas

### 1.3 LBP REQUIREMENT

Any site license LBP's shall have a minimum:  
Site license in area of practice 1

Carpentry

Foundations 1: Concrete foundation walls and concrete slab-on-ground

Roofing 2: Profiled metal roof and/or wall cladding

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# 1212 COMPLIANCE

## 1 GENERAL

### 1.1 SITE DATA

Soil type:	Refer Eng Plans
Exposure zone:	Zone C (to <a href="#">NZS 3604</a> , 4.2 <b>Exposure zones</b> or E2/AS1 Zone E severe marine)
Wind zone:	H (to <a href="#">NZS 3604</a> , table 5.4 <b>Determination of Wind Zone</b> )
Earthquake zone:	Zone 3 (to <a href="#">NZS 3604</a> , figure 5.4 <b>Earthquake zones</b> )

### 1.2 BUILDING DATA

Building classification:	2 Importance Level (to <a href="#">NZS 3604</a> , table 1.1 Classification of buildings)
Floor live load:	2 KPa (to <a href="#">NZS 3604</a> , table 1.2 Imposed floor live load reference values)
Overall height:	4.5m metres (in accordance with <a href="#">NZS 3604</a> , Fig 1.2 Buildings covered by this Standard)
Risk assessment:	4 Total Risk Score (to <a href="#">NZBC E2/AS1</a> , 3.1 Establishing the risk)

### 1.3 PRODUCER STATEMENTS

Provide Producer Statements for the following

- Truss design
- Aluminium, PVC-U or JMF timber joinery
- Glazing

Provide Producer Statements in the required form. Where no form is specified provide in the industry/trade standard form. Provide all Producer Statements before the Building Consent Authority carries out the final inspection.

### 1.4 RECORDS OF WORK

Provide Records of Work for Restricted Building Work:

- Carpentry
- Roofing
- Foundations

Refer to the Building Consent for specific requirements. Provide Records of Work in the required form. Provide all Records of Work before the Building Consent Authority carries out the final inspection.

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## 2200 GROUNDWORKS & PREPARATION

### 1 GENERAL

#### 1.1 QUALIFICATIONS

Carry out work using persons competent and experienced in the trade.

#### 1.2 SITE SAFETY

Provide proper support for excavations. Cover holes and fence off open trenches and banks.

### 2 PRODUCTS

#### 2.1 FILLING MATERIALS

Volcanic tuff:	Scoriaceous tuff of variable grading excluding silt or clay material, capable of being placed and compacted as specified.
Rock fill:	Hard material comprising rock, broken stone, hard brick, concrete, run of pit scoria, or other comparable inert material capable of being placed and compacted as specified.
Sand fill:	Clean sand of such grading in particle size as to allow for mechanical compaction to 90% maximum density.
Hardcore:	Scoria or crushed rock to GAP (General All Passing) 40 grading.
Granular base:	Screened crushed gravel or scoria graded in size from 20mm to 7mm, clean. When tested with a standard sieve of 4.75 opening no material is to pass.
Dressing course:	Scoria to GAP 20 grading, or "dirty footpath scoria", or equivalent "all in" graded crushed metal aggregate.
Free-draining aggregate:	Scoria or crushed gravel graded 50 to 14 clean.

### 3 EXECUTION

#### 3.1 EXCAVATION GUIDELINES

Carry out excavation to the guidelines set in [WorkSafe, Good Practice Guidelines - Excavation Safety](#).

#### 3.2 PROTECT EXISTING

Protect from damage existing buildings, structures, roads, paving and services nominated on the drawings as being retained, throughout the course of the work.

#### 3.3 SURFACE PREPARATION

To [NZS 3604](#), 3.5 **Site preparation**, remove all turf, vegetation, trees, topsoil, stumps and rubbish from the area being built on.

#### 3.4 UNDERGROUND ELEMENTS AND SERVICES

Break out and remove underground elements and redundant services. Report for instructions when unexpected voids, made-up ground or services are encountered. Seal off the ends of drains or remove to NUO approval.

#### 3.5 GENERAL EXCAVATION

Trim ground to required profiles, batters, falls and levels. Remove loose material. Protect cut faces from collapse. Keep excavations free from water.

#### 3.6 EXCAVATION FOR FOUNDATIONS

Take foundation excavations to depths shown. Keep trenches plumb and straight, bottoms level and solid, stepped as detailed and clean and free of water.

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### 3.7 INADEQUATE BEARING

If localised bearing is not to [NZS 3604](#), 3.1.2 **Foundations** and 3.1.3 **Determination of good ground**, then excavate further and backfill with material as follows:

- Below slabs on grade: Hardfill compacted in 150mm layers
- Below footings: 10 MPa concrete

If excavation exceeds the required depths, backfill and compact to the correct level with material as listed.

Confirm any changes with the territorial authority.

For inadequate bearing or over excavation, in service trenches, use hardfill compacted in 150mm layers.

### 3.8 GRANULAR BASE FOR SLABS

To [NZS 3604](#), 7.5.3 **Granular base**. Consolidate with a vibrating roller. Blind the surface with coarse sand or sand/cement and roll ready to receive a damp-proof membrane.

### 3.9 GENERAL BACKFILLING

Compact backfilling in 150mm layers, with the last 200mm in clean topsoil, lightly compacted and neatly finished off.

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## 3110 CONCRETE WORK

### 1 GENERAL

#### 1.1 QUALIFICATIONS

Carry out work using persons competent and experienced in the trade. Structural and foundation work to be carried out by or supervised by the appropriate LBP.

### 2 PRODUCTS

#### 2.1 REINFORCEMENT

Bars to [AS/NZS 4671](#), grade 300E deformed, other than for ties, stirrups and spirals, unless shown otherwise on the drawings. Welded reinforcing mesh to [AS/NZS 4671](#) Class E. Mild drawn steel tying wire not less than 1.2mm diameter.

#### 2.2 MESH FOR SLABS TO NZS 3604 OR NZS 4229

For slabs on ground, welded reinforcing mesh to [AS/NZS 4671](#), minimum to [NZBC B1/AS1](#) - Grade 500E, 2.27kg/m<sup>2</sup> (1.14kg/m<sup>2</sup> in each direction).

#### 2.3 SPACERS AND CHAIRS

Precast concrete or purpose made moulded PVC. Use concrete spacer blocks only where the concrete surface is not exposed in the finished work.

#### 2.4 CONCRETE

Strength as selected. Ready-mix normal concrete, maximum aggregate size 19mm to [NZS 3104](#). Site mixed prescribed mix concrete, using either separate batching of sand and coarse aggregate, or builder's mix, to [NZS 3104](#).

### 3 EXECUTION

#### 3.1 HANDLE AND STORE REINFORCING

Handle and store reinforcing steel and accessories without damage or contamination. Ensure reinforcement is clean and remains clean and free of contamination that may reduce bonding capacity.

#### 3.2 FALSEWORK AND FORMWORK

Use falsework and formwork of sufficient strength to retain and support the wet concrete to the required profiles and tolerances. Select formwork finish to produce the specified finished quality.

#### 3.3 CUT AND BEND

Cut and bend bars using proper bending tools to avoid notching and to the requirements of [NZS 3109](#). Do not rebend bars without written approval. Bend main reinforcing bars, stirrups and ties to the former pin diameters as given in [NZS 3109](#), figure 3.1, **Standard bend, hook and stirrup**.

#### 3.4 SECURE REINFORCEMENT

Secure reinforcement adequately with tying wire and place, support and secure against displacement when concreting. Bend tying wire back well clear of the formwork. Spacing as dimensioned, or if not shown, to the clear distance minimums laid down in [NZS 3109](#), 3.3. **Hooks and bends**.

#### 3.5 LAPPED SPLICES

Set length of laps, where not dimensioned on the drawings, in accordance with [NZS 3109](#), 3.7. **Splices in reinforcement**. Plain bars lapped splices must be hooked.

#### 3.6 MESH LAPS FOR SLABS TO NZS 3604 OR NZS 4229

For slabs on ground, mesh to be lapped and tied, so the outermost wires overlap by the greater of:- the spacing of the cross wires plus 50mm or, 150mm or, manufacturer's requirements. Do not count bar extensions beyond the outermost cross wire.

#### 3.7 REINFORCEMENT COVER TO NZS 3604

Minimum cover to all reinforcing bars, stirrups, ties and spirals, as shown on drawings. Where cover is not shown on drawings provide minimum cover to [NZS 3604](#) requirements.

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**3.8 EQUIPOTENTIAL BONDING REINFORCING**

If it is an electrical requirement, ensure that reinforcing is equipotential bonded (or at least conductor cable attached) before the concrete is poured.

**3.9 CONCRETE PLACEMENT**

To comply with [NZS 3109](#).

**3.10 SURFACE FINISHES**

To comply with [NZS 3114](#), section 105 **Specification of finishes**, or as denoted on the drawings. Formwork linings and surface finishes as nominated for both fair face and concealed or exposed surfaces. Surface tolerances to comply with [NZS 3114](#), section 104 **Surface tolerances** and 105.3.2.

**3.11 DAMP-PROOF MEMBRANE**

Apply membrane to prepared basecourse with 150mm laps between sheets. Tape seal laps and penetrations with 50mm wide pressure sensitive plastic tape. Refer to drawings for perimeter details.

**3.12 CASTING IN**

Build in grounds, bolts and fixings for wall plates and bracing elements, holding down bolts, pipes, sleeves and fixings as required. Form pockets, chases and flashing grooves as required. No grounds exceeding 100mm in length. Minimum cover on conduits 40mm. Do not encase aluminium items in concrete. Do not paint steel embedded items more than 25mm into the concrete encasement. Cut back form ties to specified cover and fill the cavities with mortar. Wrap all pipes embedded in concrete with tape to break the bond and to allow for expansion.

**3.13 FLOOR SLABS TO NZS 3604**

Slabs on ground to [NZS 3604](#) as modified by [NZBC B1/AS1](#) and [NZBC E2/AS3](#). Construct to [NZS 3604](#), 4.5 **Concrete and concrete masonry** and [NZS 3604](#), 7.5, **Concrete slab-on-ground floors in timber buildings** as modified by [NZBC B1/AS1](#), 3.0 **Timber**. Lay to true and straight surfaces, screeded, floated and steel (manual or power) trowelled finish. Tolerance on flatness: maximum 3mm gradual deviation over a 3 metre straight-edge, to [NZS 3114](#), 304, **Surface tolerances**. Allow for free joints maximum 24m centres to [NZBC B1/AS1](#), 3.1.13 **NZS 3604 New clause**. In the Canterbury Earthquake Region comply with the changes to [NZS 3604](#) in [NZBC B1/AS1](#).

**3.14 SAW CUTS TO NZS 3604**

Cut slabs where indicated on the drawings as required to control shrinkage cracking. Form by saw cutting the slab (blade width approximately 5 mm) to a quarter of the depth of the slab after it has hardened (saw cutting shall take place no later than 24 hours after initial set for average ambient temperatures above 20 °C, and 48 hours for average ambient temperatures below 20 °C). If saw cuts are not indicated on the drawings, then provide saw cuts as per the requirements for shrinkage control joints in [NZS 3604](#). For saw cuts filled with sealant, increase width of cut to suit sealant.

**3.15 SURFACE REPAIRS**

Make good surface defects as soon as forms are stripped. Make good hollows or bony areas with 1:2 mortar, finished to the same tolerances as the parent concrete. Fill tie rod holes with 1:2 mortar.

**3.16 CURING OF CONCRETE**

Keep damp for not less than seven days. Ensure curing of slabs commences as soon as possible after final finishing, by the use of continuous water sprays, or ponding. Alternately, apply a curing membrane. Ensure any membrane used will not affect subsequent applied finishes.

**3.17 STRIKE FORMWORK**

Strike formwork without damaging or overloading structure.

**3.18 CLEAN OUT**

Clean out saw cuts. Fill with cement grout where the floor will be covered with carpet or vinyl.

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## 3800 TIMBER FRAMING

### 1 GENERAL

Use experienced competent carpenter familiar with the materials and techniques specified. Work to be carried out by or supervised by the appropriate LBP.

### 2 PRODUCTS

#### 2.1 TIMBER FRAMING GENERALLY

Species, grade and level of treatment to [NZBC B2/AS1](#), [NZS 3602](#), tables 1 to 3 **Requirements for wood-based building components** ..., and moisture content to [NZS 3602](#), table 4 **Allowable moisture content** ..... Structural Grade (SG) to [NZS 3604](#), [NZS 3622](#) with properties to [NZS 3603](#).

#### 2.2 TIMBER TRUSSES

To FTMA Code of Practice. Moisture content 16% at supply.

#### 2.3 ACCESSORIES

Damp-proof course:	High impact embossed polyethylene
Stud straps	Polypropylene tape run horizontal at 300mm centres over flexible wall underlay, for drained cavities with stud spacings greater than 450mm.
Nails, bolts and screws:	Steel, stainless steel, galvanized steel of pattern to suit the location and to BRANZ BU 519: Fasteners selection. To <a href="#">NZS 3604</a> , 4 <b>Durability</b> and <a href="#">NZBC E2/AS1</a> .
Nail plates connectors:	Stainless steel and/or galvanized steel toothed or nailed plates to the plate manufacturer's design for the particular locations as shown on the drawings and to <a href="#">NZS 3604</a> , 4 <b>Durability</b> . Galvanized steel and stainless steel connectors and brackets to the connector manufacturer's design for locations shown on drawings and to <a href="#">NZS 3604</a> , 4 <b>Durability</b> and <a href="#">NZBC E2/AS1</a>
Corrosion risk	For exterior timber, timber in damp areas and timber subject to occasional wetting, use only stainless steel (or equivalent) fixings and connectors, when the timber is treated with; Copper Azole (CuAz, Preservative code 58), Alkaline Copper Quaternary (ACQ, Preservative code 90), Micronise Copper Azole (code 88) or Micronised Copper Quaternary (code 89).  For interior timber, treated with copper-based timber preservatives (H3.2 or higher), use a minimum of hot-dipped galvanized steel fixings and fasteners.

### 3 EXECUTION

#### 3.1 ATTENDANCE

Provide and fix blocks, nogs, openings and other items as required by others.

#### 3.2 MOISTURE CONTENT

Maximum allowable moisture content to [NZS 3602](#), table 4 **Allowable moisture content...**, for framing supporting interior linings:

Framing at erection	24%
Framing at enclosure	20%
Framing at lining	16%

#### 3.3 EXECUTION GENERALLY

To [NZS 3604](#) except as varied in this specification. To include those methods, practices and processes contained in the unit standards for the National Certificate in Carpentry and the National Certificate in Joinery (cabinetry, exterior joinery, stairs). When necessary provide framing to suit any required cladding/lining control joints. Set out framing in accordance with the requirements of [NZS 3604](#) and as required to support sheet linings and claddings.

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### 3.4 INSTALL FLOOR, WALL AND ROOF FRAMING

Floors and bottom plates framed and fastened to [NZS 3604](#), 7 **Floors**. Frame walls to required loading and bracing complete with lintels, sills and nogs, all fabricated and fastened to [NZS 3604](#), 8 **Walls**. Frame roof to required loading and bracing complete with valley boards, ridge boards and purlins to [NZS 3604](#), 10 **Roof framing**. Design and fit roof trusses complete with anchorage. All fabricated and fastened to [NZS 3604](#), 9 **Posts**, and [NZS 3604](#), 10 **Roof framing**.

### 3.5 BATTENS

For drained cavity construction nominal 20mm H3.1 cavity battens (non-structural) to [NZBC E2/AS1](#), 9.1.8.4 **Cavity battens**. For direct fix cladding window and door openings nominal 20mm H3.1 jamb battens to [NZBC E2/AS1](#), Fig. 72A.

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## 4220 WALL CLADDING

### 1 GENERAL

#### 1.1 QUALIFICATIONS

Carry out work using persons competent and experienced in the trade.

### 2 PRODUCTS

#### 2.1 FIBRE CEMENT WEATHERBOARD

Cellulose cement autoclaved boards.

#### 2.2 FIBRE CEMENT SOFFIT LINING

Cellulose cement autoclaved sheets.

#### 2.3 TIMBER FASCIAS AND BARGE BOARDS

As selected, or radiata pine to [NZS 3631](#) for grading and to [NZS 3602](#), table 2 **Requirements for wood-based building components...**, for selection and treatment.

#### 2.4 ACCESSORIES

Wall underlay:	Breather type, waterproof.
Rigid Air Barriers:	Proprietary rigid sheet pre-cladding systems.
Jointers:	To suit cladding type and thickness.
Nails, screws, fastenings:	Metal, size and pattern, to cladding manufacturer's requirements and complying with the relevant aspects of <a href="#">NZS 3604</a> , section 4: <b>Durability</b> and E2/AS1.

### 3 EXECUTION

#### 3.1 MOISTURE CONTENT

Maximum allowable moisture content to [NZS 3602](#), table 4 **Allowable moisture content....**

#### 3.2 EXECUTION GENERALLY

To [NZBC E2/AS1](#) except as varied in this specification. Execution to include those methods, practices and processes contained in the unit standards for the National Certificate in Carpentry and the National Certificate in Joinery (cabinetry, exterior joinery, stairs).

#### 3.3 INSTALL WALL UNDERLAY/RIGID AIR BARRIER

Fix to the manufacturer's requirements. Refer to 1213 SELECTIONS for type.

#### 3.4 CAVITY BATTENS OR JAMB BATTENS

As specified in the section 3800 TIMBER FRAMING, to suit the selected wall cladding and construction type.

#### 3.5 INSTALL FIBRE CEMENT WEATHERBOARD

Install level, true to line and face, to the manufacturer's requirements and [NZBC E2/AS1](#), 9.5 **Fibre cement weatherboards**.

#### 3.6 INSTALL FIBRE CEMENT SOFFITS

Cut sheets dry and scribe fit to fully support all edges and joints. Nail and drill for and insert fasteners to the sheet manufacturer's requirements. Fit complete with jointers and caulking moulds. Refer to the cladding manufacturer's literature for fixing details and fixings durability requirements to [NZS 3604](#), section 4 **Durability**.

#### 3.7 INSTALL EXTERIOR TIMBER FINISHINGS

Install timber fascias, barge boards, facings, beads, trim and enclosures level, true to line and face, with all end grain sealed and joints mitred.

#### 3.8 INSTALL FLASHINGS

Install flashings, covers and soakers as detailed on the drawings and to [NZBC E2/AS1](#), 4.0 **Flashings**.

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### 3.9 USE OF SEALANTS

Selection and use of sealants to follow BRANZ BU 601: Sealants for cladding joints.

### 3.10 COMPLETE

Complete all flashings, finishings and trim so the cladding system is completely weathertight.

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## 4310 ROOFING

### 1 GENERAL

#### 1.1 QUALIFICATIONS

Use experienced competent roofers familiar with the materials and techniques specified. Work to be carried out by or supervised by the appropriate LBP.

#### 1.2 WIND AND EARTHQUAKE LOADINGS

Use fixings and methods capable of sustaining the loads appropriate to the area as set out in [NZS 3604](#), section 5 **Bracing design**, and confirmed under 1212 COMPLIANCE.

### 2 PRODUCTS

#### 2.1 PROFILED METAL

Profile, metal and finish as selected. Accessories, cappings, flashings and fixings to match and to the roofing manufacturer's requirements.

#### 2.2 ACCESSORIES

Roof underlays:	As selected.
Nails, screws, fastenings:	Metal, size and pattern, to roofing manufacturer's requirements and complying with the relevant aspects of <a href="#">NZS 3604</a> , section 4 <b>Durability</b> and <a href="#">NZBC E2/AS1</a> .
Flashings:	As required.

### 3 EXECUTION

#### 3.1 STORAGE

Stack roofing and accessories on clean, level areas of the site. Cover and protect from damage and from weather until ready to fix in place.

#### 3.2 SET-OUT

Set out the planned layout before fixing commences, to ensure true lines and the correct relationship to module, grid and roof features. Overlaps to face away from prevailing wind direction.

#### 3.3 LAY ROOF UNDERLAY

Lay and fix to [NZBC E2/AS1](#), 8.1.5 **Roof Underlays**.

#### 3.4 TAKE CARE

Take care to avoid damaging pre-finished roofing both during and after fixing. Mark only with chalk or spirit-based pen. Wear only soft-soled shoes on the finished surface. Remove metal filings daily.

#### 3.5 INSTALL PROFILED METAL

Use cutting tools recommended by the roofing manufacturer. Fold ends and seal cut edges to the roofing manufacturer's requirements. Fix complete with matching accessories, flashed to roof features and penetrations; all in accordance with [NZMRM CoP](#) and [NZBC E2/AS1](#): 8.4 **Profiled metal roof cladding**.

#### 3.6 FIXINGS AND SEALANTS

Refer to the roofing manufacturer's literature for fixing details and to [NZS 3604](#) for fixings durability requirements. Select and use sealants only as recommended by the roofing manufacturer.

#### 3.7 INSTALL COVERS AND FLASHINGS

Provide apron, verge and ridge flashings. Install and fix as detailed and to the roofing manufacturer's details and to comply with [NZBC E2/AS1](#), 4.0 **Flashings**, [NZBC E2/AS1](#): 5.0 **Roof/wall junctions**, and [NZBC E2/AS1](#): 6.0 **Parapets**.

#### 3.8 PENETRATIONS

Flash and overflash penetrations through the roof. Fit proprietary boots to pipework penetrations.

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**3.9 COMPLETE**

Ensure the work is complete with flashings, undercloaks, valleys, ridges and hips properly installed so the finished roof is completely weathertight.

**3.10 CLEAR**

Clear trade debris and unused materials from the roof and surrounds regularly during the work and at completion. Sweep down the completed roof and flush out spoutings, gutters and rainwater pipes.

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## 4520 ALUMINIUM WINDOWS & DOORS

### 1 GENERAL

#### 1.1 QUALIFICATIONS

Fabricators/Installers to be experienced, competent trades people familiar with the materials and techniques specified.

#### 1.2 CERTIFICATION

Provide documentation that the windows and doors comply with [NZS 4211](#) and safety glass complies with [NZS 4223.3](#).

#### 1.3 WIND LOADINGS

Refer to section 1212 COMPLIANCE for wind zone.

### 2 PRODUCTS

#### 2.1 WINDOW AND DOOR REVEALS

As selected, manufactured to comply with [NZS 4211](#). Timber jamb liners to [NZS 3602](#).

#### 2.2 FLASHINGS

To [NZBC E2/AS1](#), 9.1.10 **Windows and Doors** and as required.

#### 2.3 POWDER COATING FINISH

To Window & Glass Association NZ: Powder Coating Quality Assurance System. All finished surfaces to show uniformity of gloss and colour (to match sample) free of all coating defects.

#### 2.4 SEALANT, GLAZING TAPE AND GASKETS

To the window manufacturer's requirements.

#### 2.5 FIXINGS

Ensure fixings and bracketing are compatible with aluminium. Do not use electroplated zinc fasteners or brass fastenings.

### 3 EXECUTION

#### 3.1 OPENING PREPARATION

Confirm framing openings (including jamb battens for direct fix cladding) on site for dimension, plumb and straightness prior to fabrication or ordering of aluminium joinery. Prepare and trim to Window & Glass Association NZ: Guide to Window Installation requirements. For openings over 600mm wide on cavity construction provide sill support bars.

#### 3.2 EXECUTION GENERALLY

To [NZBC E2/VM1](#) and [NZBC E2/AS1](#). Install to the Window & Glass Association NZ: Guide to Window Installation requirements.

#### 3.3 HANDLING

Avoid distortion of elements during transit, handling and storage. Prevent pre-finished surfaces from rubbing together. Prevent contact with mud, plaster and cement. Do not deliver to site any elements which cannot be immediately unloaded into suitable conditions of storage.

#### 3.4 CORROSION PROTECTION

Seal or suitably coat cut ends and holes drilled in aluminium before the frames are installed. Before fixing, apply bituminous coatings, slips or underlays between dissimilar metals in contact, or aluminium in contact with concrete.

#### 3.5 FIX FRAMES

Fix frames rigidly in place without distortion, to the window manufacturer's requirements and to [NZBC E2/AS1](#), 9.1.10.8, **Attachments for windows and doors**, plumb, true to line and face, weathertight and with all openings operating freely.

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### 3.6 DRAINAGE

Anti-condensation channels to sills. All sills to sashes and fixed lights to incorporate positive drainage to the exterior.

### 3.7 GLAZING INSTALLATION

All glass held in aluminium beads and black PVC gaskets.

### 3.8 SAFETY GLASS INSTALLATION

Use in doors, sidelight panels, low level windows and all other locations to comply with [NZS 4223.3](#).

### 3.9 INSTALL FLASHINGS

Install flashings to heads, jambs and sills of frames as supplied and required by the window manufacturer and as detailed on the drawings. Finish on head flashings to match window finish.

### 3.10 SEAL FRAMES ON SITE

Seal frames to each other and to adjoining structure and finishes, all as required by the window manufacturer and to make the installation weathertight. Provide a continuous internal air seal between reveals and framing, using sealant over a backing rod.

### 3.11 SAFETY

Indicate the presence of transparent glasses for the remainder of the contract period, with whiting, tape or signs compatible with the glass type. Indicators other than whiting must not be applied to the glass surface. Permanent manifestations, if required, to [NZS 4223.3](#), 2.2 Manifestation (making glass visible).

### 3.12 CLEAN GLASS AND FRAMES

Clean off or remove glass indicators at completion of the building. Clean glass inside and out to a shining finish. Clean down both sides of window and door frames using the methods required by the window and door manufacturer.

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## 4610 GLAZING

### 1 GENERAL

#### 1.1 QUALIFICATIONS

Glaziers to be experienced, competent trades people familiar with the materials and techniques specified.

#### 1.2 CERTIFICATION

If not supplied with windows, provide documentation that the safety glass complies with [NZS 4223.3](#).

### 2 PRODUCTS

#### 2.1 GLAZING TAPE

Pressure sensitive, self-adhesive vinyl foam tapes, selected to suit the glazing detail.

#### 2.2 GLASS THICKNESS

As selected and to [NZS 4223.1](#), [NZS 4223.3](#), [NZS 4223.4](#).

#### 2.3 FLOAT GLASS

Clear ordinary annealed glass for general window glazing. Thickness as required by [NZS 4223.1](#).

#### 2.4 TOUGHENED GLASS

To [NZS 4223.3](#).

Heat soaked toughened glass to [NZS 4223.1](#), Appendix E required for critical areas (balustrades etc) to reduce inclusion failure.

#### 2.5 SETTING BLOCKS

Neoprene, 80-90 Shore A hardness, set at quarter points or to detail, at the base of glass panes.

### 3 EXECUTION

#### 3.1 EXECUTION GENERALLY

To [NZS 4223.1](#), and for human impact safety glazing to [NZS 4223.3](#). Insulating glass units to [AS/NZS 4666](#) and [NZS 4223.2](#).

#### 3.2 INSTALL GLASS TO ALUMINIUM FRAMES

Install glass to [NZS 4223.1](#).

- Bead glaze to Section 4 Glazing.
- Channel glaze to Section 4 Glazing, and Section 5 for Framed, Unframed, Partly Framed Glass Assemblies.

#### 3.3 SAFETY GLASS INSTALLATION

Use in doors, sidelight panels, low level windows, bathrooms and all other locations to comply with [NZS 4223.3](#).

#### 3.4 SAFETY

Indicate the presence of transparent glasses, with whiting, tape or signs compatible with the glass type. Do not apply indicators other than whiting to the glass surface. Permanent manifestations if required, to comply with [NZS 4223.3](#), 2.2 Manifestation (making glass visible).

#### 3.5 CLEAN

Clean off or remove indicators at completion of the building. Clean glass inside and out to a shining finish.

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## 4710 THERMAL INSULATION

### 1 GENERAL

#### 1.1 QUALIFICATIONS

Installers to be experienced, competent trades people familiar with the materials and techniques specified.

### 2 PRODUCTS

#### 2.1 THERMAL INSULATING PADS

Rectangular insulating pads manufactured from fibreglass, polyester, wool or similar.

### 3 EXECUTION

#### Conditions

#### 3.1 INSTALL INSULATION - GENERAL

Lay, install, fit and fix to [NZBC H1/AS1](#): Energy efficiency, 2.0 Building thermal envelope, and to the insulation manufacturer's requirements. Install in housing to [NZS 4218](#) and [NZS 4246](#).

#### 3.2 FIT THERMAL INSULATING PADS

Friction fit insulating pads in place to completely fill the whole of the cavities. Carefully scribe cut insulating pads slightly oversize to maintain friction fit to each other, to smaller spaces and around penetrations. Leave no gaps between, and maintain full thickness of the insulating pads over the whole of the installation. Do not cover vents.

#### 3.3 RECESSED LIGHT FITTINGS - RESIDENTIAL

Residential recessed light fittings to [AS/NZS 3000](#), 4.5.2.3.5;

- Existing fittings or retrofit situations, fittings maybe unmarked
- New fittings can only be labelled - CA 80, CA 90, CA 135, IC, IC-F & IC-4.

Refer to clause INSULATION CLEARANCES GENERALLY for clearances.

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## 5110 INTERIOR LININGS & TRIM

### 1 GENERAL

#### 1.1 FRAMING MOISTURE CONTENT

Maximum allowable moisture content to [NZS 3602](#), table 4 **Allowable moisture content...**

#### 1.2 PROTECT

Protect joinery, fittings and finishes already in place from water staining or damage from lining installation. Ensure building is weatherproof before lining work commences.

### 2 PRODUCTS

#### 2.1 PLASTERBOARD

Gypsum plaster core encased in a durable face and backing paper formed for standard use, bracing use, fire rated use and water resistance use.

#### 2.2 PLASTERBOARD ACCESSORIES

External angles:	Slim type 0.5mm galvanized steel.
Casing bead:	Slim type 0.5mm galvanized steel or PVC.
Cornice:	Plasterboard scotia type.
Nails:	Galvanized clouts 40mm x 2.5mm.
Screws:	40mm x 6 gauge zinc electro-plated bugle head gypsum drywall screws
Jointing compound & paper tape:	To the board manufacturer's requirements.
Adhesive:	Multi-purpose water based wallboard adhesive.

#### 2.3 PRE-FINISHED SHEET

Proprietary sheets with factory applied finish.

#### 2.4 NAILS

Zinc-plated steel, stainless steel and galvanized steel of pattern to suit location and to BRANZ BU 519: **Fasteners selection**.

#### 2.5 INTERIOR FINISHING TRIM

Timber selection to [NZS 3602](#), table 3 **Requirements for wood-based building components....**  
Profile as selected or to match existing. Jointer profiles to suit location.

### 3 EXECUTION

#### 3.1 SUBSTRATE

To [NZS 3604](#), section 8 **Walls**, section 10 **Roof framing**, section 12 **Interior linings**, section 13 **Ceilings**, and the standard required by the lining manufacturer's requirements. Ensure moisture content of timber framing is at or below specified levels.

#### 3.2 CONFIRM LEVELS OF PLASTERBOARD FINISH

Before commencing work, confirm the surface finish assessment procedures necessary to ensure the specified levels of finish will be obtained. Provide levels of finish as laid down in [AS/NZS 2589](#).

#### 3.3 LINE PLASTERBOARD CEILINGS AND WALLS

Line walls and ceilings with plasterboard sheets, fastened to the plasterboard manufacturer's requirements.

#### 3.4 SPECIAL PLASTERBOARD LININGS

Line wet area walls with water resistant plasterboard sheets using adhesive and nail fixing to studs at centres to suit the surface finish. Form bracing panels using high density plasterboard sheets fixed with clout-washers and clouts and to conform to [NZS 3604](#), 5.4 **Wall bracing design**, and 13.5 **Structural ceiling diaphragms**. Form sound rated panels following the sheet manufacturer's specifications and details for the required sound rating. Form fire rated panels following the sheet manufacturer's specifications and details for the required fire rating.

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**3.5 FIX PLASTERBOARD EXTERNAL ANGLES**

Fix full length to external corners, with clouts at 100mm each side staggered.

**3.6 FIX PLASTERBOARD CORNICE**

Fix with adhesive and with joints scribe-fitted to the plasterboard manufacturer's requirements.

**3.7 PLASTERBOARD JOINTING AND STOPPING**

Fill joint recess with bedding compound, centre the paper tape, apply second coat of bedding compound followed by a coat of finishing compound. Allow to dry and lightly sand off. Fill nail holes and flush up external angles with two successive coats of bedding compound followed by a coat of finishing compound. Allow to dry and lightly sand off. All to the plasterboard manufacturer's requirements.

**3.8 LEVELS OF FINISH**

Provide levels of finish to standards laid down by [AS/NZS 2589](#) as follows:

Level 4: For thin coating finishes (paint) and surfaces receiving light texture or wall covering finishes

Level 5: Where specifically detailed for surfaces receiving thin coating finishes (paint).

**3.9 INSTALL PREFINISHED SHEET LININGS**

Adhesive fix to timber framing with selected jointers as detailed and to the panel manufacturer's requirements.

**3.10 INSTALL TRIM**

Scribe and fit reveal linings to exterior timber joinery, architraves to interior joinery, skirtings to walls and timber beads to wall/ceiling junctions, and other trim as detailed.

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## 5230 INTERIOR DOORS & FRAMES

### 1 GENERAL

#### 1.1 QUALIFICATIONS

Trades people qualified or experienced in those methods, practices and processes contained in the unit standards for the National Certificate in Carpentry and the National Certificate in Joinery (cabinetry, exterior joinery, and stairs).

### 2 PRODUCTS

#### 2.1 DOORS GENERALLY

As selected.

#### 2.2 INTERIOR CAVITY SLIDERS

Hollow core door within a proprietary cavity slider frame, with brand-matched sliding door gear.

#### 2.3 INTERNAL JOINERY FRAMES

Fabricate as detailed.

#### 2.4 DOOR HINGES

Type:	loose-pin zinc-plated steel
Size:	89mm
Material:	zinc-plated steel
Number:	3 hinges per door

#### 2.5 DOOR HARDWARE

As selected.

#### 2.6 NAILS

Zinc-plated steel, stainless steel and galvanized steel of pattern to suit location and to BRANZ BU 519: **Fasteners selection**.

### 3 EXECUTION

#### 3.1 PROTECT

Protect joinery, fittings and finishes already in place from water staining or damage from lining installation. Ensure building is weatherproof before lining work commences.

#### 3.2 FIT INTERNAL JOINERY FRAMES

Wedge and rigidly fix in place without distortion, plumb, and true to line and face.

#### 3.3 INTERNAL CAVITY SLIDERS

Install in accordance with the door manufacturer's requirements.

#### 3.4 FIT HARDWARE

Fit hardware selected and provided, all in accordance with the hardware manufacturer's requirements.

#### 3.5 CHECK

Check and adjust operation of doors sets, hardware and furniture.

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## 5510 JOINERY FIXTURES & FITTINGS

### 1 GENERAL

#### 1.1 QUALIFICATIONS

To include those methods, practices and processes contained in the current syllabus for the National Certificate in Carpentry and the National Certificate in Joinery (cabinetry, exterior joinery, stairs).

### 2 PRODUCTS

#### 2.1 TIMBER BOARDS AND FRAMES

Carefully sawn to minimise the inherent warping, twisting and bowing of the selected species and to give a finish suitable for clear finishing.

#### 2.2 MEDIUM DENSITY FIBRE BOARD

Resin bonded wood fibre sheet with selected finish.

### 3 EXECUTION

#### 3.1 TRANSIT AND DELIVERY

Load, transport and unload fittings without distortion or damage and keep covered to protect from the weather. Do not deliver fittings until floor, wall and ceiling surfaces are in place and the fittings can be placed in their final location.

#### 3.2 FABRICATION QUALITY

Check site dimensions. Carry out machining within the practices required for the particular timber or wood product being used. Machine drill and cut holes and recesses and form joints to the componentry manufacturer's requirements. Work accurate, square and true to line and face.

#### 3.3 ASSEMBLE PROPRIETARY ITEMS

Check all components are included. Assemble to manufacturer's instructions to achieve finished item.

#### 3.4 INSTALL FITTINGS

Scribe fit on site and install level, square, plumb and true to line and face.

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## 6300 FLOOR COVERING

### 1 GENERAL

#### 1.1 QUALIFICATIONS

Use flooring trades people appropriately experienced with the materials and techniques specified.

### 2 PRODUCTS

#### 2.1 ADHESIVES COMPATIBILITY

Use only compatible adhesives approved by the respective manufacturers.

#### 2.2 RESILIENT FLOOR COVERING

Includes vinyl, linoleum or rubber, either sheet or tile

#### 2.3 ACCESSORIES - RESILIENT FLOOR COVERING

Rigid sheet underlay:	Wood based sheet overlays for uneven timber floors
Primer and sealers:	To the adhesive manufacturer's requirements for the particular substrate.
Adhesive:	To the manufacturer's requirements.
Trims and edging:	As supplied by the manufacturer to complete the work.

#### 2.4 CARPET

Textile floor coverings to, [AS/NZS 2455.1](#) for broadloom or [AS/NZS 2455.2](#) for tiles.

#### 2.5 ACCESSORIES - CARPET

Rigid sheet underlay:	Wood based sheet overlays for uneven timber floors
Underlay:	To <a href="#">AS/NZS 2455.1</a> Soft underlay and underlays manufacturer's requirements.
Adhesives:	To the manufacturer's requirements.
Edge grippers:	To the manufacturer's requirements.
Tape:	To the manufacturer's requirements.
Trims and edging:	Binder bars, divider strips and nosings to complete the work.

### 3 EXECUTION

#### 3.1 HANDLING AND STORAGE

Maintain materials and accessories undamaged and dry. Store any rolls and other material to manufacturers requirements, on level surfaces, in non-work areas that are enclosed, clean and dry. Avoid distortion, marking and damage to edges while shifting and handling materials and accessories. Do not use faulty or damaged material.

#### 3.2 SUBSTRATE

Ensure the building is enclosed, wet work complete, finishes and trim complete, and good lighting available. Inspect the substrate to ensure it is of the standard required for work in this section.

#### 3.3 TEMPERATURE

Acclimatize flooring to a room temperature above 16°C to manufacturer's requirements. In air-conditioned buildings run air-conditioning to flooring manufacturer's requirements. Turn off floor heating for at least 48 hours before and after laying.

#### 3.4 LAYOUT

Before beginning the installation confirm the proposed layout of material, location of joins and other visual considerations of the finished work.

#### 3.5 SURFACE PREPARATION - RESILIENT FLOORING

To [NZS/AS 1884](#) including necessary repairs and sealing. Check for moisture content to [NZS/AS 1884](#), Appendix A, and do not commence final sanding or laying until readings for the whole area show a maximum moisture content of, 75% RH for concrete, 14% for timber or 12% for timber with air conditioning. Clean surface.

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### 3.6 SURFACE PREPARATION - CARPET

To [AS/NZS 2455.1](#), section 2. including necessary repairs and sealing. Check for moisture content to [AS/NZS 2455.1](#), Appendix B, and do not commence laying until readings for the whole area show a maximum moisture content of, 75% RH for concrete, 14% for timber or 12% for timber with air conditioning. Clean surface.

### 3.7 RESILIENT FLOOR LAYING

Carry out the whole of the work to [NZS/AS 1884](#), and the flooring manufacturer's requirements.

### 3.8 RESILIENT FLOOR JOINTING

Provide the joints/seams described in 1213 SELECTIONS or the drawings, to [NZS/AS 1884](#), and the flooring manufacturer's requirements.

### 3.9 CARPET INSTALLATION, CONVENTIONAL SYSTEM

Install underlay to manufacturer's requirements, and lay at right angles to the carpet direction. Tape carpet joints, fix grippers to floor and install underlay and carpet to [AS/NZS 2455.1](#), section 3. Stretch carpet tight in both width and length evenly without bowing, square with walls. Fix trim.

### 3.10 CLEAN

Upon completion clean to manufacturer's requirements.

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## 6700 PAINTING

### 1 GENERAL

#### 1.1 QUALIFICATIONS

Carry out work using competent and experienced painters.

#### 1.2 HEALTH AND SAFETY

Refer to the requirements of the [Health and Safety at Work Act 2015](#) and if elimination or isolation is not possible, then minimise the hazards in this work. Refer to [WorkSafe](#) publication, [Repainting lead based paints](#), for the required procedures and precautions when treating or removing lead based paint, burning or sanding off paint, or using solvent based paint removers.

#### 1.3 SELECTIONS

Confirm all selections, colours and finishes with the owner.

### 2 PRODUCTS

#### 2.1 PAINT

As selected and to the paint manufacturer's standards for exterior and/or interior primers, undercoats, sealers, stains, clear coatings, solvent-borne and water-borne paints.

#### 2.2 GAP FILLERS

Linseed oil, putty, plastic wood, wood filler or plastic filler, to suit and to match the surface being prepared.

### 3 EXECUTION

#### 3.1 INSPECT SURFACES

Inspect surfaces being painted and report to the owner any that will not, after the preparatory work laid down by the paint manufacturer, allow work of the required standard. Confirm that all areas have adequate lighting and are sufficiently free of other construction activities to enable painting work to proceed.

#### 3.2 PROTECT

Cover up adjoining surfaces and areas liable to damage or over-painting.

#### 3.3 REMOVE HARDWARE

Remove hardware and door/window furniture and replace on completion. Do not paint over permanently attached hinges, or any hardware items which cannot be removed.

#### 3.4 PRIMING AND SEALING

Ensure that priming and sealing work needed before or during construction is carried out when required.

#### 3.5 ENVIRONMENTAL CONDITIONS

Carry out work within acceptable temperature and humidity limits, with timber dry, all to the requirements of the paint manufacturer.

#### 3.6 SHARP EDGES, CRACKS AND HOLES

Repair as required by the paint manufacturer.

#### 3.7 PREPARE SURFACES

Prepare surfaces as required by the paint manufacturer. Make good all damage and defects.

#### 3.8 PAINT APPLICATION

Apply paint by brush and/or roller to suit the location of the coating and to the paint manufacturer's requirements. Do not spray on site without express permission.

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### 3.9 MANUFACTURER'S MANUALS

Refer to the paint manufacturers' manuals and follow their preparation, sequence and application requirements applying to each system. Ensure all paint coats in any system are supplied by the same manufacturer.

### 3.10 SCUFF BETWEEN COATS

Scuff between all coats to remove any dust pick-up, protruding fibres and coarse particles.

### 3.11 FINISHED PAINT SURFACES

Finished paint surfaces to show uniformity of gloss and colour, with the correct thickness for each coat, and freedom from painting defects. Ensure finished work is clean and free of any disfigurement.

### 3.12 CLEAN

Clean adjoining surfaces, glass and fittings of any paint contamination.

### 3.13 REFIT HARDWARE

Refit hardware without damage to the hardware or the adjoining surfaces.

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## 7120 WATER SYSTEM

### 1 GENERAL

#### 1.1 QUALIFICATIONS

Carry out work by or under the direct supervision of a certifying person under the [Plumbers, Gasfitters and Drainlayers Act 2006](#).

### 2 PRODUCTS

#### 2.1 COPPER WATER PIPE

To [NZS 3501](#).

#### 2.2 POLYBUTYLENE WATER PIPE

Polybutylene tubing complete with fittings and accessories brand-matched to [AS/NZS 2642.2](#).

#### 2.3 POLYPROPYLENE WATER PIPE

PP-R Polypropylene pipes complete with fusion welded fittings and accessories brand-matched to [NZBC G12/VM1](#).

#### 2.4 INSULATION FOR HOT WATER PIPES

Preformed closed cell foam.

#### 2.5 WATER METER

Meter, gate valve and back flow prevention to the requirements of the network utility operator. Minimum 25mm OD Polyethylene cold water main. Allow to excavate, install and back fill for the water main.

#### 2.6 VALVES AND FITTINGS

All valves and fittings required for the system, to [NZBC G12/AS1](#).

#### 2.7 WATER HEATERS

Generally to [NZBC G12/AS1](#), 6.0 **Hot Water Supply Systems** as applicable. Refer to 1213 SELECTIONS/drawings for specific water heater.

### 3 EXECUTION

#### 3.1 EXECUTION GENERALLY

Carry out work and tests as applicable to [NZBC G12/AS1](#).

#### 3.2 INSTALL COPPER WATER SUPPLY

Size the piping layout to eliminate loss of pressure at any point by simultaneous draw-off. Run pipes in straight runs, firmly fixed to falls, with long radius bends and jointed by brazing or with crox fittings, all to [NZBC G12/AS1](#), 5.0 **Water supply**. Conceal piping, insulate hot water pipework and pressure test before the wall linings are fixed.

If it is an electrical requirement, before enclosing, ensure metallic water supply pipes and metallic sanitary fixtures are equipotential bonded (or at least conductor cable attached) to [NZBC G12/AS1](#), 9.0.

#### 3.3 INSTALL POLYBUTYLENE/POLYETHYLENE/POLYPROPYLENE WATER SUPPLY

Type as selected. Size the piping layout to eliminate loss of pressure at any point by simultaneous draw-off. Run pipes complete with all fittings, support and fixing, and jointed to the pipe manufacturer's specifications, all to [NZBC G12/AS1](#), 5.0 **Water supply**. Conceal pipework and pressure test before wall linings are fixed.

#### 3.4 OUTLET LOCATIONS

Ensure wall outlets for exposed pipes are level and centred on the fixture to ensure the neat installation of exposed pipework.

#### 3.5 BACKFLOW PREVENTION

Fit back flow prevention devices to all outlets where it is possible for water or contaminants to backflow in to the potable water supply system.

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### 3.6 INSTALL HOT WATER PIPE INSULATION

Insulate hot water pipes in accordance with the insulation manufacturer's instructions. Cut insulation sections tight between timber framing and tight between the webs of steel studs. Where hair felt is used, wrap around pipes in two layers in opposite directions and secure with galvanized steel wire ties.

### 3.7 INSTALL WATER HEATER

Install where shown complete with all the necessary fittings to the water heater manufacturer's requirements and [NZBC G12/AS1, 6.11 Water heater installation](#). Gas water heaters also to [AS/NZS 5601.1](#) and [NZBC C/AS1-AS2, 7.2 Gas-burning appliances](#).

### 3.8 PENETRATIONS

Provide and fit collars and escutcheon plates to match pipework at penetrations through constructions.

### 3.9 COMPLETION

Pressure test to ensure no leakage and leave in proper working order. Clean tapware and fittings.

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## 7150 SANITARYWARE, TAPWARE & ACCESSORIES

### 1 GENERAL

#### 1.1 QUALIFICATIONS

Carry out work by or under the direct supervision of a certifying person under the [Plumbers, Gasfitters and Drainlayers Act 2006](#).

### 2 PRODUCTS

### 3 EXECUTION

#### 3.1 EXECUTION GENERALLY

Carry out installation work and tests to [AS/NZS 3500.2](#): 2018, as applicable.

#### 3.2 INSTALL SANITARYWARE

Fit and install sanitaryware and associated screens, elements and hardware, plumb, true to line and rigid, to the fixture manufacturer's requirements. Supply standard chrome plated brass wastes and plastic plugs on chrome plated chains with all basins, tubs and baths. Seal between all sanitary fixtures and floors, wall linings, fixtures and the tops they are in, the tops of wall linings to [NZBC E3/AS1](#), 3.2.

#### 3.3 INSTALL TAPWARE

Install tapware in accordance with the tap manufacturer's requirements. Flush out on completion. Check that washers or ceramic discs are operating correctly.

#### 3.4 INSTALL SHOWER CUBICLE

Install to [NZBC G1/AS1](#), [NZBC E3/AS1](#) and in accordance with shower manufacturer's details and requirements. Ensure that screens and doors fit closely and accurately. Test for water egress around sides and base. Seal shower wall lining penetrations (shower head, shower hose, mixer, taps etc) to [NZBC E3/AS1](#), Fig 6.

#### 3.5 TEST

Test soil and waste disposal systems to ensure no leakage exists and leave in working order.

#### 3.6 ENSURE

Ensure all sanitary plumbing fittings and pipework are complete and operational.

#### 3.7 EARTHING OR EQUIPOTENTIAL BONDING METALLIC FIXTURES

If it is an electrical requirement, before installation or enclosing, ensure at-risk metallic sanitary fixtures are earthed or equipotential bond (or at least conductor cable attached) to [NZBC G12/AS1](#), 9.0.

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## 7410 RAINWATER SPOUTING SYSTEM

### 1 GENERAL

Refer to 1213 SELECTIONS/drawings for specific product, material, accessories and finish selections.

#### 1.1 LIAISON

Ensure liaison with associated installations to ensure material selections are compatible and required flashing work is completed.

#### 1.2 ELECTROLYTIC ACTION

Avoid electrolytic action by eliminating contact or continuity of water between dissimilar metals.

### 2 PRODUCTS

#### 2.1 PVC-U DOWNPIPES

Tubes, stand-off brackets and fittings brand matched and complete to the manufacturers specifications.

#### 2.2 ALUMINIUM/ZINC ALLOY COATED PRE-PAINTED STEEL SPOUTING

Profile, jointing, brackets and fittings brand matched and complete to the spouting manufacturer's specifications.

### 3 EXECUTION

#### 3.1 INSTALL PVC-U SPOUTING AND DOWNPIPES

Fit and screw fix brackets, set to falls to outlets. Ensure solvent welded or rubber ring jointed spouting sections are complete with all fittings to the spouting manufacturer's requirements. Screw fix stand-off brackets, set pipes plumb and clear of the wall, solvent welded. Discharge into stormwater bends.

#### 3.2

#### INSTALL ALUMINIUM/ZINC ALLOY COATED STEEL PRE-PAINTED SPOUTING AND DOWNPIPES

Screw fix brackets, set to falls to outlets, with spouting joints silicone sealed and pop-riveted to the spouting manufacturer's requirements. Screw fix stand off brackets, set pipes plumb and clear of the wall, with joints silicone sealed. Discharge into stormwater bends.

#### 3.3 ENSURE

Ensure rainwater services are operational, flashings complete and the building weathertight.

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## 7420 SANITARY WASTE SYSTEM

### 1 GENERAL

Refer to 1213 SELECTIONS/drawings for specific product, material, accessories and finish selections.

#### 1.1 QUALIFICATIONS

Carry out work by or under the direct supervision of a certifying person under the [Plumbers, Gasfitters and Drainlayers Act 2006](#).

### 2 PRODUCTS

#### 2.1 PVC-U WASTE, SOIL AND VENT PIPES

PVC-U pipe, complete with fittings brand-matched to the pipe manufacturer's requirements.

#### 2.2 EXPOSED PIPES AND TRAPS

As selected and to the following details:

- chrome plate on copper pipes and associated copper and brass fittings
- white polybutylene or PVC, including all associated fittings.

### 3 EXECUTION

#### 3.1 EXECUTION GENERALLY

Carry out sanitary plumbing work and tests as applicable to one of the following:

- [NZBC G13/AS1](#) or
- [AS/NZS 3500.2](#): 2018, as modified by [NZBC G13/AS3](#)

#### 3.2 ELECTROLYTIC ACTION

Avoid electrolytic action by eliminating actual contact or continuity of water between dissimilar metals.

#### 3.3 INSTALL TRAPS, WASTE AND VENT PIPES

Connect waste outlets to traps and run waste pipes and back vents concealed, sized and fixed to one of the following:

- [NZBC G13/AS1](#) or
- [AS/NZS 3500.2](#): 2018, as modified by [NZBC G13/AS3](#)

Discharge wastes into floor waste gully, drainage system stack, soil pipe, or gully trap as shown. Bird proof mesh to roof vents and vermin proof mesh to untrapped waste pipes.

#### 3.4 PENETRATIONS

At penetrations through constructions provide and fit collars and escutcheon plates to match pipework. Exterior roof and wall penetrations to [NZBC E2/AS1](#).

#### 3.5 TEST

Test soil and waste disposal systems to [NZBC G13/AS1](#) or [AS/NZS 3500.2](#): 2018, 15, to ensure no leakage exists and leave in working order.

#### 3.6 ENSURE

Ensure all sanitary plumbing fittings and pipework are complete and operational.

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## 7430 DRAINAGE SYSTEMS

### 1 GENERAL

#### 1.1 QUALIFICATIONS

Carry out work by or under the direct supervision of a person registered under the [Plumbers, Gasfitters and Drainlayers Act 2006](#).

#### 1.2 AS BUILT DOCUMENTS

Supply a 1:100 as-built drawing to the BCA and the owner on completion.

### 2 PRODUCTS

#### 2.1 MATERIALS

Concrete:	17.5 MPa prescribed grade.
Reinforcement:	Grade 300 deformed bars.
PVC-U pipes:	PVC-U pipes bends, junctions, fittings and joints.
Field drains:	Plastic pipes for field drains perforated and coiled with filter fabric over.
Drainage/filling materials	
Granular fill:	Clean gravel or crushed stone or a blend of these. Particle size from minimum 7mm to maximum 20mm.
Selected fill:	Fine grain soil or granular material suitable for bedding, excluding topsoil.
Ordinary fill:	Top soil or other excavated materials.

#### 2.2 FITTINGS

Gully traps complete with grating:	To <a href="#">NZBC G13/AS2</a> , 3.3 <b>Gully traps</b> , or <a href="#">AS/NZS 3500.2</a> : 2018, 4.6 Gullies, as modified by <a href="#">NZBC G13/AS3</a>
Strip drain channel:	Proprietary, modular, variable invert, PVC-U or precast concrete drainage channel sections and drainage sump, embedded in site concrete and fitted with selected metal gratings.

### 3 EXECUTION

#### 3.1 EXCAVATE

Excavate for drains to a firm even base with correct gradients set in straight runs.

#### 3.2 MANUFACTURER'S REQUIREMENTS

All drainage installations to the pipe and fitting manufacturer's requirements.

#### 3.3 EXECUTION GENERALLY - WASTEWATER

Carry out drainage work as applicable to one of the following:

- [NZBC G13/AS2](#) or
- [AS/NZS 3500.2](#): 2018

#### 3.4 EXECUTION GENERALLY - STORMWATER

Carry out drainage work as applicable to one of the following:

- [NZBC E1/AS1](#), or
- [AS/NZS 3500.3](#): 2018

#### 3.5 LAY WASTEWATER DRAINS

Lay drains in straight runs to correct gradients, to discharge into the NUO's sewer. Set inspection fittings on a concrete base.

#### 3.6 INSTALL GULLY TRAPS

Set on concrete 50mm above surrounding ground or paving and brought up to protect the top of the fitting. Trowel off.

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### 3.7 INSTALL SURFACE WATER SUMP

Install surface water sump to one of the following:

- [NZBC E1/AS1](#), 3.6 Surface water inlets to drains or
- [AS/NZS 3500.3](#): 2018, section 7.

Ceramic half-siphon pipe. Cast iron frame with a lift out grating.

### 3.8 TESTING - WASTEWATER

Test to one of the following:

- [NZBC G13/AS1](#), 7.1 or
- [AS/NZS 3500.2](#): 2018, 15

Field test drains for watertightness to the satisfaction of the BCA inspector.

### 3.9 TESTING - STORMWATER

Test to one of the following:

- [NZBC E1/AS1](#), 8.0 Drain Leakage Tests or
- [AS/NZS 3500.3](#): 2018, section 9, as modified by [NZBC E1/AS2](#).

Field test drains for watertightness to the satisfaction of the BCA inspector.

### 3.10 BACKFILL

Backfill drain lines in 100mm layers, well tamped but without disturbing the drains. Finish off garden areas with 150mm of topsoil, slightly mounded above the finished ground line. Public roads and footpaths to be made good to the controlling authority requirements.

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## 7700 ELECTRICAL

### 1 GENERAL

#### 1.1 COMPLY

Comply with the Electricity (Safety) Regulations 2010, [AS/NZS 3000](#) for listed and prescribed work and with the NUO's requirements. Apply for the service connection. Arrange for the required inspections of listed work. Pay all fees.

#### 1.2 QUALIFICATIONS

Carry out work by or under the direct supervision of an electrical licensed supervisor under the Electricity (Safety) Regulations 2010.

#### 1.3 ELECTRICAL CERTIFICATE OF COMPLIANCE

Provide, prior to connection, a Certificate of Compliance (CoC) as required by the Electricity (Safety) Regulations 2010, to the owner and if required to the NUO. Allow the NUO to view before the meter installation, listed work inspection, polarity check and livening of supply.

#### 1.4 ELECTRICAL SAFETY CERTIFICATE

Provide an Electrical Safety Certificate (ESC), as required by the Electricity (Safety) Regulations 2010, to the owner and when required the BCA. To be provided at completion of the work, prior to Practical Completion.

#### 1.5 SAFETY OF INSTALLATION

When required by the Electrical (Safety) Regulations 2010, before installation work commences, provide a Certified Design to Electrical (Safety) Regulations 2010, regulations 58. This will may not be required for domestic installations or Low Risk Work.

### 2 PRODUCTS

#### 2.1 METER BOARD / DISTRIBUTION BOARD / SUB BOARD

Proprietary manufactured meter board complete with flashing kit. Proprietary manufactured distribution board, zinc plated powder coated, or heavy duty plastic, fire resistant enclosed construction, complete with neutral and earth busbars, MCB's, RCD's and main switch. All protective devices: 6kA MCB's of the appropriate rating. Fit to board manufacturer's requirements where detailed. Recess into wall and ensure fire containment properties of the enclosure is maintained.

#### 2.2 MAIN SUPPLY

Excavate, lay underground mains to NUO requirements, install cable marker, back fill. Public roads and footpaths to be made good to the controlling authority requirements.

#### 2.3 CABLES

Tough plastic sheathed copper conductors. Minimum sizes are indicated below. Increase these as necessary due to method of installation, cable length or load.

Lighting circuits: 1.5mm<sup>2</sup> on 10 amp MCBs for domestic construction

Power circuits: 2.5mm<sup>2</sup> on 16 amp MCBs for domestic construction

#### 2.4 ELECTRICAL ACCESSORIES

As selected and to the following details:

Switch units	Minimum 16 amp, 230 volt flush polycarbonate units. For number of switches per unit, dimmer units, neon (indicator or toggle) units, locator units and 2-way units refer to the electrical drawings.
Switched socket units:	10 amp, 230 volt flush polycarbonate 3 pin combined switch units.
Hot water system switch:	One way 20 amp switch complete with clamp for flexible PVC conductor.
Stove/range socket outlet and switch:	32 amp, 230 volt flush polycarbonate 3 pin combined switch unit, with remote isolating switch.

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### 3 EXECUTION

**3.1 CABLING**

Install with a maximum of 10 light outlet units or 6 switched socket units on any circuit. Separate circuits for all electric heating appliances. All cabling run concealed. No TPS cable laid directly in concrete. Locate holes in timber framing for the passage of cables at the centre line of the timber member. Provide main earth and equipotential bonding to [AS/NZS 3000](#), section 5, including (if in project) for at risk; structural steel, light steel framing, concrete reinforcing (if bath, shower, swimming/spa pool involved), conductive pipes (& connected metalwork like SS sinks), conductive elements within 1.25m of swimming/spa pool edge.

**3.2 INSTALL SWITCH AND SOCKET UNITS**

Fit single and double switch units and socket units level and plumb where shown on the drawings. Install at the following heights (to the centre of the unit) unless shown otherwise on the drawings or to match existing.

Switch Units:	1000mm above floor
Socket Units:	400mm above floor
	150mm above work benches

Mount switches vertically and socket units horizontally. Label switch units which control electrical equipment by engraving on the rocker switch.

**3.3 INSTALL LIGHT FITTINGS**

Install selected light fittings in the locations and heights shown on the drawings and in accordance with the fitting manufacturer's requirements. Recessed fittings to [AS/NZS 3000](#), and [NZS 4246](#), types IC-F, IC, CA-80, CA-90, IC-4, or CA-135 only (no clearance to insulation required for these types).

**3.4 ELECTRIC HOT WATER SYSTEM**

Wire as a separate circuit through a wall-mounted isolating switch, with the cable from switch to element encased in flexible PVC conduit, clamp fixed at each end.

**3.5 INSTALL DOMESTIC SMOKE ALARMS**

Install alarms to [NZBC F7/AS1](#), 3.3 Location of smoke alarms, and to manufacturer's requirements, fitted neatly and without damage to the surrounding finish.

**3.6 ELECTRIC POWERED FITTINGS AND EQUIPMENT**

Install and wire selected fittings and equipment to the Electricity (Safety) Regulations 2010 and the individual fittings and equipment manufacturer's requirements. Refer to the drawings for required layouts and locations for equipment.

**3.7 COMPLETION**

Leave all fittings, lamps and tubes operational, with equipment and diffusers clean.

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