



Homes NSW

COMPONENT

REQUIREMENTS

For maintenance service contracts July 2024

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NSW DEPARTMENT OF COMMUNITIES AND JUSTICE

HOMES NSW

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March 2018	V3 Clarified reference to brand names.Updated components	
March 2023	Ch 2023 V4 Updated to supplement the Asset Maintenance ServicesContract Specifications - Plus – Req supplement the Reference Specification for new construction and documentation for special projects.	
For July 2024 for new contract only		Updated and amended from 2 parts to 3 parts as follows: Part 1 - Asset Maintenance and New Construction Part 2 - Fire Safety System Components (this section added) Part 3 - Items to supplement the Reference Specification for new construction and documentation for special projects. (Fire Safety Components moved to part 2)

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Component Requirements

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Preamble

There are over 10 million components in approximately 130,000 dwellings and buildings owned by Homes NSW. They include doors, basins, taps, windows, etc. as well as floors, walls and roofs. Components are the discreet items that together comprise a building, and which can normally be replaced as a unit.

A sub-component is a further breakdown of the component into its discreet parts, a handle is part of a door, a window sash is part of a window, a bench top is part of a kitchen cabinet, etc.

The ordering of components and their sub-components in this reference document mirrors the arrangement in the Homes NSW Maintenance Specifications and the Reference Specifications for new construction.

The Basic Provision Standards that form part of the commitment by Homes NSW tenants for provision levels in existing dwellings can be found in the **Asset Performance Standards** reference document.

A Different Emphasis

Homes NSW is not just a purchaser of new dwellings, it is a long term manager of residential property. Life cycle costs are as important as the purchase price and this places a different emphasis when judging the suitability of products to that of the general residential market.

From Homes NSW long term ownership and management of approximately 130,000 state wide properties a surfeit of information on the performance and suitability of various materials, construction systems and fixtures for rental property has been compiled.

Deemed to Comply

Particular products that are deemed to comply with these component requirements are listed in a schedule available from Homes NSW. Because products are varied or withdrawn, and new products become available, the schedule is only relevant at the time of issue. A product not in the schedule can be used as long as the product complies with the "Components Requirements" and/or the relevant specifications.

Warranties

Homes NSW is seeking greater value for money for dwelling components. Many are replaced or repaired regularly and this provides an excellent basis for determining the appropriateness of particular components for rental properties.

This document places greater emphasis on warranties as part of the value for money objective. There is also an attempt to limit the number of components listed to those specifically of interest to a social housing provider or owner.

Components

The components listed are those pertinent to Homes NSW and not scheduled as a provision standard. The schedule is not a comprehensive list of components needed to construct a dwelling.

Components not listed in this document should comply with the relevant specifications (Maintenance and Reference Specifications).





Elaboration

This document outlines the performance requirements of selected components with which Homes NSW has both a direct interest in and experience with. For workmanship and installation requirements, refer to the appropriate contract documents.

Not all materials used in buildings are identified in this document. It is expected that all materials used in work undertaken on behalf of Homes NSW will be fully compliant with current Australian Standards and service authority requirements as well as any legislation and regulatory requirements.

Components identified by performance criteria only, may require written certification from the manufacturer or supplier. Certification must be provided to Homes NSW for each project before installation by the Contractor.

Where compliance with relevant standards, codes (including the National Construction Code of Australia and NSW variations), and Australian Standards are listed as performance criteria, use the current editions, including amendments. Applicable Australian Standards and other international and nationally recognised standards are accepted provided the manufacturer/supplier produce proof of equivalence assessed/certified by an accredited independent third party.

Criteria for product selection for use in Homes NSW properties include, but are not limited to, the following:-

- proven performance
- proven quality and/or endorsement from reputable organisation(s) in the industry
- "Standards Mark" accreditation (where possible)
- "Code Mark" certification (where possible)
- best value for money
- low maintenance
- assurance of supply
- warranty
- origin of product

Homes NSW will exercise its right to select particular products that best meet the business needs. This judgment may be based on independent third party assessment or on experience with the products' performance. In all cases Homes NSW is seeking both value for money and the promotion of better performing products at affordable prices. Homes NSW also reserves the right to seek supply agreements for the bulk supply of particular products.

Homes NSW has the right to amend/add performance criteria to this document at its sole discretion.





Document Format

The Component Requirements (2024) consists of three parts:

- Part 1 includes the Component Requirements to supplement the Responsive and Programmed Maintenance Services Contract.(RAPM) Section 2 Part G2 Technical Specification for Maintenance G2.1 Maintenance Specification clause 22; and to contribute to the preparation of Reference Specification for new construction.
- Part 2 includes the Component Requirements for Fire Safety Systems to supplement the Responsive and Programmed Maintenance (RAPM) Services Contract. Section 2 Part G2 Technical Specification for Maintenance G2.1 Maintenance Specification clause 22; and to supplement the Specialised Fire Safety Services (SFSS) contract or other fire related upgrade or repair works.
- Part 3 includes the additional items used in the preparation for Reference Specifications for new construction and special projects.

 These items in the Component Requirements are intended to assist Delivery Division Project Managers and Contractual drafters of new construction works and other special projects to prepare technical reference specification.

The components are arranged on the following pages in a table using the following format:

Component	The category of building component, e.g. roof
Sub-component	If required, the component can be broken down into smaller parts e.g. roof covering
Functional Statement	Describes the business interest the item needs to fulfil
Performance Requirement	Sets out the specific criteria for judging acceptability of any particular product – will usually include compliance with current Australian/NZ Standards
Warranty	Any specific warranty requirement

Some of the component descriptions include detailed requirements, but even then, the business need should be understood first as it represents the Principal's primary interest.

Definitions

"Certification" in this Schedule means one or more of the following:

A copy of a certificate of approval by a government authority e.g. Sydney Water, NSW Department of Planning and Environment, Transport for NSW, Australian Communications and Media Authority, Australia Post, Fire & Rescue NSW, NSW Rural Fire Service, NSW Health, Ausgrid, Jemena, etc., and/or

A letter certifying compliance to requirements and testing procedures outlined in specified Australian Standards, and/or

A letter with certification by a practising qualified Engineer, and/or

Test reports/opinions prepared by Commonwealth Scientific and Industrial Research Organisation (CSIRO), National Association of Testing Authorities (NATA), Australian Wool Testing Authority (AWTA), Building Research Association New Zealand (BRANZ), etc; based on Australian Standard Testing Procedures, and/or a print of a drawing with the testing authority's endorsement mark.





PART 1 – ASSET MAINTENANCE AND NEW CONSTRUCTION

1.1 Grounds

1.1.1 Letter Box

Component	LETTERBOX
Sub-component	
Need	To provide tenants with an Australia Post compliant receptacle for mail
Requirement	 General (all types) Painted zinc/aluminium alloy coated steel or G2 zinc coated steel (Z450) with minimum 50 micron polyester powder coat finish Aluminium (minimum 20 micron anodised or 50 micron powder coat) Weather hood (for weather exposed areas) Freestanding A4 envelope size minimum 230mm x 330mm and minimum160mm high Minimum 30mm high letterbox slot Elevated between 900mm to 1200mm above ground on a coated steel post Padlock or key operated camlock
	 Built-in (brickwork or Aluminium Letter box Banks) Aluminium/G2 zinc coated steel/zinc-aluminium coated steel sleeve Minimum A4 envelope size, minimum 230mm x 330mm and minimum160mm high Minimum 30mm high letterbox slot Access door pivot hinged on minimum 5mm diameter galvanised steel/SS rod Key operated camlock/padlock style lock Maximum letterbox bank of 75 boxes (15 wide x 5 high)
Warranty	Minimum 1 year written warranty





1.1.2 Clothes Lines

Component	CLOTHES LINES
Sub-component	
Need	To provide tenants with an easy way of drying clothes and bedding in the sunlight
Requirement	General (all types)
	Test report certifying hoist can withstand a load of 150 kg (minimum 2kg point loads evenly distributed per all lines/ at maximum 300mm centre spacing) without deformation or damage, issued by a registered Testing Laboratory based on current Australian Standards
	 Anodised aluminium or minimum 1.0mm thick galvanised steel framing to current Australian Standards Minimum 20 micron anodised or 50 micron polyester powder coat finish to current Australian Standards All bolts & fittings zinc plated Locking mechanism on frame
	Installed to manufacturers written specification
	Retractable
	 Minimum 4 line (2 BR or less) Maximum line extension 6.5 m Minimum 5 line Maximum extension 6.5 m Line material - Minimum 3.5mm UV stabilised plastic sheathed cord or 4mm galvanised wire
	Awning
	 Minimum 14 m line (for 1 BR or less) Minimum 20 m line (for 2/3 BR Properties) Minimum 35 m line (for 4/5 BR Properties) Ground or wall mounted With tensioning mechanism Line material - Minimum 3.5mm UV stabilised plastic sheathed cord or 4mm galvanised wire
	Fixed Rotary Type Adjustable (wind-up fixed head hoists)
	 Minimum 39m line/4m diameter (for 2/3 BR Property with ground level Private open space Minimum 48m line /5m diameter(for 4/5 BR Property with ground level Private open space Line material - Minimum 4mm diameter galvanised wire
Warranty	Minimum 10 year written warranty - frame Minimum 1 year written warranty - line and components





1.2 Carpentry

1.2.1 Built in Wardrobes

Component	BUILT IN WARDROBES
Sub-component	
Need	To provide adequate storage for tenants' clothing
Requirement	General To current Australian Standards for HMR, MDF, Laminate, Melamine and Painted finishes
	 Minimum 16mm thick high moisture resistant (HMR) particleboard or moisture resistant (MR) medium density fibreboard (MDF); laminated with low pressure melamine (LPM) decorative finish to both sides or vinyl film applied Aluminium stiles acting as pull grips for sliding doors OR Painted 35mm flush, hollow or cell cored door
	 Carcass Minimum 16mm thick high moisture resistant (HMR) particleboard with white melamine finish to both sides 1 mm ABS or PVC plastic edge strip to all exposed edges of carcass and shelves Concealed side wall-mounted hinges with 170° swing or sliding doors Hanging/shelf unit to be removable/lowerable Install to manufacturers written specification All assemblies to carry a compliance label to current Australian Standards
	 Minimum 16mm thick fronts, bottom and sides of either high moisture resistant (HMR) particleboard or moisture resistant (MR) medium density fibreboard (MDF), finished with melamine both sides 2 mm ABS or PVC plastic edge strip to drawer fronts Completely integrated drawer slide system comprising a high quality epoxy coated white steel self closing feature runner, 30kg load capacity
Warranty	Minimum 5 year written warranty





1.2.2 Cupboards Kitchen

Component			CUPBOARDS
Sub-component			Kitchen
Need Requirement	To provide durable, waterproof, hygienic and cleanable storage and food preparation areas General		
Requirement	General To current Australia Laminate and Melar Benchtops Minimum 32 mm post form round laminate having High resistance Doors and Drawer Minimum 16mm moisture resistate with low pressue 2 mm ABS or level Use concealed Drawer Minimum 16mm resistant (HMR density fibreboxed) 1 mm ABS or level Completely interest epoxy coated we capacity Carcass	m thick high dedge, lam g character to impact fronts m thick high ant (MR) mure melaming PVC plastic side wall-num thick bott and (MDF), PVC plastic egrated drawhite steel side white steel side wall-num thick bott and (MDF), PVC plastic egrated drawhite steel side white steel side wall-num thick bott and thick	n moisture resistant (HMR) particleboard, sinated with high pressure decorative istics of high resistance to surface wear and high resistance to scratching n moisture resistant (HMR) particleboard or edium density fibreboard (MDF), laminated ne (LPM) decorative finish to both sides edge strip to all doors and drawer fronts nounted hinges with 170° swing on all doors om and sides of either high moisture hard or moisture resistant (MR) medium finished with white melamine both sides edge strip to all exposed edges of carcass wer slide system comprising a high quality self closing feature runner, 30kg load
	white melamine	e finish to b	moisture resistant (HMR) particleboard with oth sides edge strip to all exposed edges of carcass
	Kickboard		
	moisture resistation black vinyl or lot 1 mm ABS or F Install to manuf	ant (MR) mow pressure PVC plastic facturers w	moisture resistant (HMR) particleboard or edium density fibreboard (MDF), with 2 mm e melamine (LPM) decorative finish edge strip to all edges ritten specification ry a compliance label to current Australian
Warranty	Minimum 5 year wri	tten warran	ty





1.2.3 Bathroom Cabinet

Component	BATHROOM ACCESSORIES
Sub-component	Bathroom Cabinets
Need	For storage of personal items used only in the bathroom and to
	allow personal grooming
Requirement	General (All types)
	 To current Australian Standards Surface mounted or recessed Cabinet fabricated in 1 mm zinc coated steel (white Acrylic baked Solvent-borne finish) or minimum 16 mm thick high moisture resistant (HMR) particleboard or moisture resistant (MR) medium density fibreboard (MDF); laminated with low pressure melamine (LPM) finish / polyurethane finish or heavy duty plastic (Plastic cabinet body minimal thickness of 5mm) Adjustable shelving Glass type to comply with AS1288 for location
	Single Door Cabinet
	 Minimum 375 mm high x 405 mm wide x 115 mm deep 3 mm mirror fixed to self closing hinged door or sliding door Minimum 1 shelf
	Double Door Cabinet
	 Minimum 415 mm high x 700 mm wide x 130 mm deep 2 x 4 mm sliding mirror doors with finger slots set in recessed safety tracks (extruded PVC or aluminium tracks fitted to HMR laminated board) or 2 x 3 mm mirrors fixed to self closing hinged doors Minimum 2 shelves
Warranty	Minimum 5 year written warranty





1.2.4 Bathroom Vanity

Component		BATHROOM ACCESSORIES
Sub-component		Bathroom Vanity
Need	For storage of perso	onal items used only in the bathroom
Requirement	To current Australia	n Standards
	Vanity tops	
	post form round laminate having	m thick high moisture resistant (HMR) particleboard, d front edge, laminated with high pressure decorative g characteristics of high resistance to surface wear, atching with Vitreous China Bowl (refer Basin)
	OR	
	Sanitary grade	Acrylic (Waterborne) moulded
	Door and Drawer fo	ronts
	moisture resista with low pressu	n thick high moisture resistant (HMR) particleboard or ant (MR) medium density fibreboard (MDF), laminated are melamine (LPM) decorative finish to both sides PVC plastic edge strip to all doors and drawers
	OR • Polyurethane fi	nish
	Carcass	
	legs or with kic Minimum 16mm moisture resista with low pressu	x 450d with drawers, floor mounted on 150h tubular kboard if floor not tiled underneath vanity in thick high moisture resistant (HMR) particleboard or eant (MR) medium density fibreboard (MDF); laminated are melamine (LPM) finish to both sides PVC plastic edge strip to all exposed edges of carcass
Installation to manufacture		facturers specification
Warranty	Minimum 5 year writ	tten warranty





1.3 Doors and Windows

1.3.1 Screen Doors

Component	SCREEN DOORS		
Sub-component	Heavy Duty Front and Rear		
Need	To provide a physical barrier that allows air and vision through the screen		
Requirement	 Aluminium Door Framing Installation to current Australian Standards Minimum 69mm x 18mm x 1.2mm wall thickness extruded aluminium frame with 10mm wide x 13.5mm deep insert frame for grille Extruded PVC insert to bed heavy duty grille Joints to be mitred, staked and riveted Reinforcing corner stakes fixed to frames with SS 4mm diameter x 9.5mm rivets (minimum 4 per corner) Door to be permanently branded on top rail with name of manufacturer Tested to AS5039 for Dynamic Impact, Jemmy, Pull, Probe and shear Aluminium Heavy Duty Grille To current Australian Standards for Type 1 doors Minimum 7.0mm sectional thickness Grille secured to door by pop rivets (Adequate Pop Rivets to satisfy 		
	AS5039 tests) Aluminium Door Framing & Heavy Duty Grille Finish Clear anodised to current Australian Standards (20 microns thick for all regions) OR Thermoset powder coatings to current Australian Standards (50 microns thick for standard conditions/ 80 microns thick for severe coastal or industrial regions) Screen Mesh		
	 Powder coated Aluminium woven mesh (standard conditions) Powder coated Stainless Steel (316 marine grade) woven mesh for bushfire areas Mosquito proof mesh - with average aperture 1.5mm x 1.5mm Wire diameter - minimum 0.23 woven Aluminium and minimum 0.18mm woven stainless steel Secured to door to prevent easy removal Hardware Three 75 x 30 mm hinges to current Australian Standards fixed with pop rivets 		
Warranty	 Locks, refer DOORWAYS "locks & latches" (Non fire-rated heavy dut screen door) Fully adjustable dampened type door closer Minimum 10 year written warranty		





1.3.2 Doorways External

Component	DOORWAYS			
Sub-component	External			
Need	o provide a secure mechanism for controlling access through a doorway at separates the private Property from public and common area			
Requirement	 Ceneral To current Australian Standards & NCC Do not use imported rainforest timber veneers A non standard door size is a door size over 2400mm x 900mm Entry doors (non fire rated) 40mm thick (or 35mm for maintenance only to suit existing door jamb. If replace jamb make to suit 40mm door) flush type solid core particleboard or blockboard cored door (type B bonded ply-wood/hardboard face) Door closer where nominated 			
	Timber door frame and jamb lining (for Maintenance only) To current Australian Standards			
	Steel door frames (non fire rated) Minimum 18 gauge hot dipped zinc coated steel doorframe with internal architrave			
	Security Viewer			
	 Fire rated security viewer Viewing greater than 160° 			
	Storm seal screw fixed to base of door leaf			
Warranty	Minimum 5 year written warranty - door Minimum 2 year written warranty - stormproof door seal			





1.3.3 Doorways Internal

Component	DOORWAYS		
Sub-component	Intern	ıal	
Need	To provide a reliable mechanism for closing off rooms		
Requirement	 General To current Australian Standards Do not use imported rainforest timber veneers A non standard door size is a door size over 2400mm x 900mm Internal doors 35mm thick flush lightweight Solid block-board pine core door, solid particle-board, MDF core to current Australian Standards 35mm thick flush hollow or cell cored door as like for like replacement (for maintenance only) Type B bonded plywood/hardboard face Timber door frame and jamb lining To current Australian Standards Steel door frames Minimum 18 gauge hot dipped zinc coated steel doorframe with internal architrave 	nt	
Warranty	Minimum 5 year written warranty		





1.3.4 Door Locks and Latches

Component DOOR			WAYS	
Sub-component		Door Locks and	Latches	
Need	To provide a re	To provide a reliable, useable and secure device for locking doors		
Sub-component Need Requirement	General To current Quality ma For fire resapproved to Door locks Door lock to Keyed alike Locks and care facilitie To all alume the upper to slide Front and rear Double cyles a separate Keyless op Automatic Units/apartme Door close Door close Door close Theavy duty sc Short backelocking onle Common area Exterior esserted services on the control of the control	General To current Australian Standards Quality management to current Australian Standards For fire resistant door sets doors, lock sets must form part of an approved tested door set assembly Door locks to be a minimum 5 pin cylinder Door lock finish: satin chrome/chrome plated/stainless steel Keyed alike Locks and Latches to suit semi-commercial applications (Residential care facilities etc) To all aluminium sliding doors supply and insert aluminium blocks int the upper track of door in closed position leaving clearance for door t slide Front and rear entry doors Cottages, villas & townhouses, units: Double cylinder automatic dead-latch with colour coded lock alert and a separate lever Latch set Keyless opening from inside unless intentionally dead locked Automatic release of dead latch when opened with a key from outside Units/apartments (additional) Door closer (rack and pinion type) Door closer low moment type cam operated where appropriate Heavy duty screen doors Short backset mortice deadlock and lever with snib. Single point locking only Common area entrance doors & community rooms Exterior escape dead latch (keyed lever latch from outside with quick release from the inside) Door closer (cam operated) Panic release fitted to all external exit fire doors only Balcony/porch swing and sliding doors Keyed double deadlocks		
	Balcony/porch	h swing and sliding doors		
Keyed double deadlocks		uble deadlocks		
		sage latch set tch set to bathroom/WC Lever set	ontinues	





Component	DOORWAYS
	Continues
	Common Storeroom & toilets Nightlatch and 'D' handle (Key to master key system) Electric meter cupboard Nightlatch (fire rated) and 'D' handle (Key to master key system)
	Electric meter cabinet Padlock (Key to master key system)
Warranty	Minimum 5 year written warranty - paint & tarnish Minimum 10 year written warranty - mechanical parts

1.3.5 Windows and Glazed Doors

Need	Component		WINDOWS
Requirement Window and Door Locks - refer to Locks and Latches Window & Door assemblies manufactured to comply with current Australian Standards and to carry testing authorities' endorsement mark All window types & glazed doors tested to AS2047 for deflection (positive/negative), air infiltration, water penetration, operating force and proof tests by NATA approved laboratory Installation of new window assembly set in habitable rooms to be equal to or less than Maximum U value and within range for Solar Heat Gain Coefficient (SHGC) for appropriate climate zone Window tests to qualify minimum 700 Pa Minimum overall frame width 70mm for class 2 dwellings Each window/door branded in an upper channel/stile with a permanent label indicating NATA Testing Certification, structural and water performance and manufacturers name eg. AWA labelling scheme Installed to current Australian Standards and to manufacturers written specification Doors toughened/laminated glass to current Australian Standards Glass type and thickness to current Australian Standards Glass type and thickness to roughened glass in accordance with current Australian Standards Issue window shop drawings with NATA testing authorities' endorsement mark to the Principal if manufacturers do not qualify for AWA labelling scheme All openable windows to include flyscreen which can be installed to external of window from inside dwelling	Sub-component		Windows and Glazed Doors
 Window & Door assemblies manufactured to comply with current Australian Standards and to carry testing authorities' endorsement mark All window types & glazed doors tested to AS2047 for deflection (positive/negative), air infiltration, water penetration, operating force and proof tests by NATA approved laboratory Installation of new window assembly set in habitable rooms to be equal to or less than Maximum U value and within range for Solar Heat Gain Coefficient (SHGC) for appropriate climate zone Window tests to qualify minimum 700 Pa Minimum overall frame width 70mm for class 2 dwellings Each window/door branded in an upper channel/stile with a permanent label indicating NATA Testing Certification, structural and water performance and manufacturers name eg. AWA labelling scheme Installed to current Australian Standards and to manufacturers written specification Doors toughened/laminated glass to current Australian Standards Glass type and thickness to current Australian Standards except lower edge of all glass in windows within 500mm from floor to be only 'A' safety grade laminated or toughened glass in accordance with current Australian Standards Issue window shop drawings with NATA testing authorities' endorsement mark to the Principal if manufacturers do not qualify for AWA labelling scheme All openable windows to include flyscreen which can be installed to external of window from inside dwelling 		from the eleme	nts
Continues	requirement	 Window & Australian endorseme All window (positive/n and proof) Installation equal to or Heat Gain Window te Minimum of Each wind permanent water performs scheme Installed to specification Doors tought Glass type lower edge 'A' safety of current Au Issue wind endorseme AWA label All openable external of Sliding gla 	Door assemblies manufactured to comply with current Standards and to carry testing authorities' ent mark types & glazed doors tested to AS2047 for deflection egative), air infiltration, water penetration, operating force tests by NATA approved laboratory of new window assembly set in habitable rooms to be eless than Maximum U value and within range for Solar Coefficient (SHGC) for appropriate climate zone sts to qualify minimum 700 Pa overall frame width 70mm for class 2 dwellings ow/door branded in an upper channel/stile with a tabel indicating NATA Testing Certification, structural and ormance and manufacturers name eg. AWA labelling of current Australian Standards and to manufacturers written on ghened/laminated glass to current Australian Standards except of all glass in windows within 500mm from floor to be only grade laminated or toughened glass in accordance with stralian Standards ow shop drawings with NATA testing authorities' ent mark to the Principal if manufacturers do not qualify for ling scheme le windows to include flyscreen which can be installed to window from inside dwelling





Component	WINDOWS
	Continues Acid etch anodising AS1231-2000 for suitability to atmospheric conditions Minimum 20 micron anodised film, 25 micron for coastal areas
	Flyscreen Mesh
	 All Flyscreen Mesh to include safety warning message stating that the "Screen will not stop children falling out window" Powder Coated Stainless Steel (316 marine Grade woven mesh for bushfire areas minimum wire diameter 0.18 woven stainless steel) Powder coated Aluminium woven mesh for all other areas (minimum wire diameter - minimum 0.23mm woven Aluminium) Mosquito proof with average aperture of 1.5mm x 1.5mm Flyscreens with Aluminium Grille (only when Directed)
	 Ground Floor and all accessible windows to include Aluminium Heavy Duty grille (minimum 7.0mm sectional thickness) pop riveted into screen frame with quick release (install to AS5039) Complies AS5039 for Type 1 Class B Screens
Warranty	Minimum 7 year written warranty

1.3.6 Window Locks

Component	WINDOWS			
Sub-component	Window Locks			
Need	To provide a means of securing the Property from unauthorised entry through a window			
Requirement	Note - All openable windows must be capable of being locked in a partial open (safe ventilation) and closed position			
	General			
	To current Australian Standards			
	Fit keyed window locks to all openable windows			
	 All windows must be capable of being locked in a closed position, and provide safe ventilating locking points 50mm and 100mm from closed position 			
	Do NOT install window locks on a consecutive code number basis but for security purposes are to be installed on a random basis, with minimum allowance for repetition of coding 1 per 100 Properties			
	Locks to be minimum 4 disc cylinder type - all window locks keyed alike for new construction			
	Fixings appropriate to window and door frame			
	Comply with AS5203 Fall Prevention Test			
	Continues			





Component	WINDOWS
	Continues
	Window Restrictors (Only where specified)
	 Window opening restrictor (capable of connection to all opening types) opening at 100mm and also completely opened when restrictor is released Fixings appropriate to window and door frame
	 If restrictor involves steel rope or steel chain must have a minimum breaking strength of 3 KN
	 Approved Child proof locking device or 4 disc cylinder key lockable restrictor - all window locks keyed alike for new construction Comply with AS5203 Fall Prevention Test
Warranty	Minimum 2 year written warranty

1.3.7 Window and Door Awnings

Component		WINDOWS		VINDOWS
Sub-component			Awnings	
Need	Тор	rotect wind	lows and door openings from sun and rain	
Requirement	•	eneral Able to be fixed securely to wall Provides effective shading Sheds water away from window/door		
Made of non combustible material Radiant Heat Attenuating Screens				
	 Manufactured from stainless steel mesh Wire diameter for screen not less than 0.8mm Weave characteristic Achieves and certified to AS1530.4 Fire Attenuation Test 			
Warranty	Minir	mum 5 yea	r written warranty	





1.3.8 Garage Doors

Component			GARAGE
Sub-component			Garage Doors
Sub-component Need Requirement	garage Roller Doors (Dom Design to curre Tested to qualify one cycle = clo Withstand miniminaternally norms Rolled-T/box sea aluminium chare Counterbalance Galvanised primetal compone Branded with m Key lockable ce	ent Australia fy to minimused to open mum dynamal to door ection/single nnel guides, e roller defle me painted/ ents nanufacture entral door h	operated means of securing a le and Double Doors In Standards for wind loading am 1500 cycles of operation per year (where a to closed position) Inic pressure of 550N/m2 applied externally/ e or double angled bottom rail, steel or interlocking slatted curtain ection not to exceed 0.3% of span polyurethane/pre paint bonded finish to all irs name
	 Tested to quality one cycle = clo Withstand minity internally normally normally metal componer 	fy to minimused to open mum dynam al to door me painted/ ents nanufacture	Im 1500 cycles of operation per year (where to closed position) nic pressure of 550N/m2 applied externally/ polyurethane/pre paint bonded finish to all rs name and Installation to manufacturers
Warranty	Minimum 7 year wri	tten warrant	y





1.3.9 Master Lock and Key Schedule

Component		MASTER KEY SYSTEM	
Sub-component		Specialist key systems to secure areas	
Need	Secure access to parts	of selected buildings to authorised personnel only	
Requirement	Sydney and Wollo Properties within E The system is to s to access building Master Lock and h high level of secur only to authorised Key system to cov access (override), room access (plus access, Manhole, room access, Elec risers general, Acc panels. Garage do boxes, Trade toile security Capacity to expane Copy protection — Integrated minimu Modular or univers Bump, Pick penetr Cylinders and Hou	 Secure access to parts of selected buildings to authorised personnel only Contractors keying system operates mostly in Newcastle, Greater Sydney and Wollongong Metropolitan areas Properties within Buildings are not to be master keyed The system is to simplify the number of keys a Contractor has to carry to access buildings and restricted areas within buildings Master Lock and Key Schedule to be designed and installed to meet high level of security to protect assets, work-sites, and restrict access only to authorised personnel Key system to cover the following areas (Front/Rear and garage access (override), Building service riser access, Laundry and garbage room access (plus Tenant access key for these areas), Under stair access, Manhole, Roof access, Plant room access, Lift maintenance room access, Electrical – meter boards and service risers, Service risers general, Access control, CCTV rooms, Void areas, MATV panels. Garage door controls, Intercom panels, Security Guard log boxes, Trade toilet – cleaners store and any other areas requiring security Capacity to expand system into electronic keying Copy protection – Anti-duplication restricted keying Integrated minimum 6 pin cylinder Modular or universal steel cylinder cores Bump, Pick penetration and Drill protected cores (where required) 	
Warranty	Minimum 2 years man Keying system protect	· · · · · · · · · · · · · · · · · · ·	





1.4 Roofing

1.4.1 Roof and Eave Ventilation

Component		ROOF
Sub-component		Roof and Eave Ventilation
Need	To provide air circ	culation so as to reduce condensation and moisture ace
Requirement	Note – Installation fire safety of the Under Eave Vent	-
	Curved air inWhite Polypr	let holes to restrict insect entry opylene or equivalent durable plastic e 400 x 200 mm
	 Made from S Lubricated st Reinforced h Withstand wi Withstand ra Pre painted b Fixed using of (appropriate) Flashed and 	teel, Aluminium or heavy duty high strength Polymer eel bearings ail resistant dome nd velocities in excess of 200 km/hr in penetration bonded finish to match roof colour or clear plastic dome corrosion resistant self drilling screws or fasteners to environment) and finished to match roof materials fitted correctly above and through the roof with two part inpatible with roof material
Warranty		vritten warranty - Under Eave Vents written warranty - Roof ventilators including bearings

1.4.2 Gutters, Downpipes and Fascias

Component	ROOF	
Sub-component	Gutters, Downpipes and Fascias	
Need	To effectively collect and shed water from the Property	
Requirement	 Designed and installed to meet Plumbing Code of Australia Gutters are required to comply with requirement relating to overflow Gutter – minimum 115mm quad or 135mm half round Fascia system – 185mm compatible with gutter Downpipes minimum 100mm x 50mm or 75mm round Gutter / Fascia / Downpipe material – Zincalume or equivalent 0.5mm BMT (G300) or 0.42mm BMT (G550) gauge factory pre painted bonded finish. Gutter Brackets – concealed type at 900mm maximum spacing fixed using galvanised helical nails or proprietary clips and fixings Installation to current Australian Standard and manufacturers specification 	
Warranty	Minimum 20 year written warranty - Gutters, Downpipes and Fascias	





1.4.3 Roof Lights and Skylights

Component			ROOF
Sub-component			Tubular Roof Lights/Skylights
Need	Тор	rovide natu	ıral light to internal areas
Requirement	Sky	Skylights Tubular	
	•	Achieve a AS4055 ar Roof Flash Certificatio Minimum 2 Achieve a Diffuser to Internal Fir	Australian Standards test report certifying assembly can withstand wind forces to nd resist impact to AS4256 nings an integral part of skylight to AS/NZS2904 on of greater than 95% specular reflectance from shaft 250mm internal diameter WERS rating better than 5 star for heat and cooling transfer reduce glare and to throw light over a broad area re Damper with FRL60/60/60 when directed for buildings in reas or where required to achieve a 60 minimum fire rating
Warranty	Mini	mum 7 yea	r written warranty

1.4.4 Ceiling Insulation

Component	ROOF
Sub-component	Ceiling Insulation
Need	To effectively insulate the ceiling
Requirement	Glass Fibre (batts)
	 Made of melted glass spun onto a mat of fine fibres Pre-cut to width of ceiling joists New construction -Thermal insulation to a Property shall meet BASIX requirements Existing properties - Installed insulation (combined ceiling and roof insulation) to achieve a combined R value of R4.0 for climate zones 1 to 5 and R5.0 for climate zones 6 to 8 To current Australian Standards Sound absorption properties - achieve Noise reduction co- efficient of 0.8 or better Product to contain at least 70% recycled glass content To achieve a fire hazard rating (AS/NZS1530.3) of:
	 Ignitability Index 0 Spread of Flame 0 Heat Evolved 0 Smoke Developed 0 - 1 Rated Non Combustible on AS1530.1 Indoor Air Quality - formaldehyde release less than 0.01 mg/ m²/24 hours Fibreglass batts thermal insulation shall comply with the Building Regulations and relevant Australian Standards, and shall consist of not less than 95% the weight glass wool (inorganic oxides or minerals rock slag or glass) and binders





Component

Continues

Glass Fibre (blankets)

- Properties same as for Glass fibre batts above
- Blanket insulation with Sarking to be installed under metal roofing in strict accordance with manufacturer's specification (installed between top of the trusses and metal roofing or between raked cathedral ceiling and roofing
- Glass fibre blankets shall not be installed on top of the flat ceiling to cover ceiling joists or services

Rockwool (batts)

- Made from melted volcanic rock and recycled mineral slag spun into a mat of fine fibres
- Pre-cut to width of ceiling joists
- To current Australian Standards
- Sound absorption properties achieve a Noise reduction co- efficient of 0.8 or better
- Product to contain at least 20% recycled content (mineral slag)
- To achieve a fire hazard rating (AS/NZS1530.3) of:

o Ignitability Index 0
o Spread of Flame 0
o Heat Evolved 0
o Smoke Developed 0 – 1

- Rated Non Combustible on AS1530.1
- Low VOC emissions less than 0.01mg/m²/24 hours
- Rockwool batts thermal insulation shall comply with the Building Regulations and relevant Australian Standards and shall consist of not less than 95% the weight mineral wool (inorganic oxides or minerals, rock slag or glass) and binders

Rockwool (blankets)

- Properties same as for Rockwool Batts above
- Rockwool blankets cannot be installed on top of the flat ceiling to cover ceiling joists or services

Notes

- Insulation shall be installed appropriately to avoid interference with electrical and other services and appliance and do not compromise safety
- Install Fire rated covers inside ceiling as required or ensure appropriate separation
- Bulk insulation that does not achieve a Non Combustible rating as per AS1530.1 is not approved
- Insulation cannot be installed to cover ceiling joists or other structural beams in the ceiling

Warranty For the life of the Property





1.5 Plumbing

1.5.1 Hand Basin

Component		BASIN
Sub-component		
Need	To provide h	nygienic receptacle for washing hands and face
 Standard Mark/\(\) White (minimum) Wall mounted or waste outlet Installed to man 		ent Australian Standards rd Mark/Water Mark/Sydney Water certificate of approval minimum bowl capacity 4 litres) Vitreous China bunted on manufacturers metal brackets with ring connector to butlet d to manufacturers written specification ns to be supplied with plug and waste
Warranty	Minimum 2	year written warranty

1.5.2 Bath

Component	ВАТН
Sub-component	
Need	To provide a hygienic tub for bathing
Requirement	 General To current Australian Standards Standard Mark (optional) /Watermark/ Water Authority certificate of approval Installed to manufacturers written specification Indelibly marked with manufacturers name/Trademark (visible in the installed position) Rectangular - minimum 1500x 715mm wide x 380mm deep Minimum 10mm high tiling bead to all baths built into adjacent walls Fitted with plug & waste Sanitary grade Acrylic (Waterborne) moulded from minimum 3.5mm thick sheet, glass reinforced with 10mm diameter steel rod rim reinforcement OR Pressed metal manufactured from minimum 1.6mm thick steel drawn seamless from one sheet of metal, grip coated all over and finished internally with white vitreous Solvent-borne finish(non skid base) Retrofit Existing - Acrylic (Waterborne) bath linings Sanitary grade Acrylic (Waterborne) moulded from minimum 3.5mm thick sheet reinforced with a fibreglass backing Dimensions to fit over existing bath size Grate and adaptor to suit existing waste drain Fitted with plug and waste
Warranty	Minimum 10 years written warranty





1.5.3 Shower Base

Component			SHOWER
Sub-component			Shower Bases
Need	Need To provide a sound, waterproof base for the shower that integrates seamlessly with other shower elements		•
Requirement	• T • S c • 9 • P s i	To current Australian Standards, including installation Standard Mark/Water Authority certificate of approval and tested to current Australian Standard 900mm x 900mm x 70mm high hob Pressed metal (vitreous Solvent-borne finish) or moulded plastic (no slip finish) Installed to manufacturers specification Indelibly marked with manufacturers name/-trademark	
Warranty	Minim	um 10 ye	ar written warranty

1.5.4 Shower Roses

Component		SHOWER
Sub-component	•	Shower Rose
Need	To provide a sp	ray of water sufficient for washing comfortably
Requirement	 Chrome plances, with Tamper properties Handheld Minimum 6 Adjustable Hygienic s Fixings of Brass wall Shower howoven poly Water savi 	Shower Rose mounted on vertical grab rail 600 mm - 32mm stainless steel grade 304 grab rail handheld shower rose cradle eal Flange Covers Grab rail to support appropriate static load flange with dual check non return valve se smooth PVC hose with elastic inner strengthened by yester cords ng '3 STAR WELS rating
Warranty	Minimum 5 yea	r written warranty





1.5.5 Shower Seats

Component		SHOWER
Sub-component		Shower Seat
Need		port for less mobile tenants whilst using the shower where for a disability modification
Requirement	 Rounded e Self drainir Frame grae Seat high e Ensuring s 	Australian Standards edged foldable seats (with anti drop tension hinges) ng and non slip de 304 stainless steel density HDPE (high density polyethylene) tability up to 160 kg (unless specified higher) ensure wall construction and fixings support Shower Seat
Warranty	Minimum 5 yea	r written warranty

1.5.6 **Bathroom**

Component		BATHROOM ACCESSORIES	
Sub-component		Bathroom Fittings	
Need	For easy acces	s and manipulation of towels, toilet paper	
Requirement	 Chrome plant 150mm v Bath Towel Ra Minimum 7 brass or st 	x 150mm with aluminium roller Sath Towel Rail	
	Robe Hooks		
	• 52mm x 53	8mm chrome plated brass	
Warranty	Minimum 1 yea	r written warranty	





1.5.7 Grab Rails

Component		BATHROOM ACCESSORIES
Sub-component		Grab Rails
Need	Reduce risk of	falls for our tenants
Requirement	 approved t To current 32mm diar powder co to wall with 50mm long Hygienic s 	e prescribed by OT or where installed as part of an enant disability request Australian Standards meter (or as directed) x 1.2mm thick 304 Stainless Steel or ated aluminium x 450mm minimum overall length, secured a round head C.P. brass or stainless steel screws, minimum geal Flange Covers Grab rail to support appropriate static load
Warranty	Minimum 1 yea	r written warranty

1.5.8 Toilet

Component		TOILET
Sub-component	<u> </u>	Pan and Cistern
Need	To provide a hy	gienic, comfortable ablution facility
Requirement	 Standard M Pedestal p Cisterns to overflow 4.5/3L dua Toilet and Resistant O Installation Existing Hous Retrofit 6/3 Star WELS 	5/3 L dual flush toilet suites where replacing pans (minimum
Warranty	Minimum 1 yea	r written warranty





1.5.9 Toilet Seat

Component		TOILET	
Sub-component		Toilet Seat and Cover	
Need	Toilet Seat and	oilet Seat and Covers to supplement the toilet so a reasonable	
	level of comfor	t is provided	
Requirement	To current Australian Standards		
	Constructed of solid plastic – Vandal Resistant with vandal resistant fittings		
	Installation to manufacturers specification		
	Note AS1	428.1 compliance required in common area bathrooms only	
Warranty	Minimum 1 yea	Minimum 1 year written warranty	

1.5.10 Tap Ware

Component		TAPS
Sub-component		Bathroom, Laundry and WC
Need	To easily contro	ol water flow reliably for efficient water usage
Requirement	Bib tap / Pillar	tap / Hob mounted set / Flick mixer
	General	
	 Australian Water sup Standards Basin tap Laundry tu Shower ta All compor chrome fin 	dimensions, finishes and performance tests to current Standards ply metal bodied taps to current Australian Standards Mark/ Water Mark/ Certificate of Approval set / flick mixer 4 Star WELS rating by tap set / flick mixer 3 Star WELS rating pset 3 star WELS rating pest 3 star WELS rating ments made of brass base material, chrome plated or satin ishes
	Standard tap s	set (separate taps and spout /shower rose)
	 Bath, basing valves equivalent (not required) Vandal production of the completion of	e vandal resistant n, shower, laundry tub - Incorporate in tap flow regulator uivalent to "Aqualoc" or pressure compensating flow control ed if flick mixer) oof aerator ete with outlet, shower rose, spout or arm, and handles to be easily changed from minimum 65mm lever for separate eld taps to longer levers r Lever handles length 65mm to 80mm handles
		Continues





Component	TAPS
	Continues
	OR
	Flick mixer (Wash Basin or Laundry Tub only)
	 Top control single lever (no gooseneck type or pull out hose) 40mm diameter ceramic disc cartridge size Secured to basin or laundry tub with twin stud fixing or large hand tighten nut (approx. 50mm dia) or backing nut (approx. 40mm dia) with lock screws (no metallic C plate with single stud fixing) Connector tails flexible braided PEX with WaterMark AS/NZS3499 Can operate to water temperature of up to 70 degrees Install to manufacturers written specification (note, generally manufacturers stipulate isolating stop taps must be fitted to hot and cold water connection at wall outlet)
	Disability Modification
	 Tap handles as directed Quarter turn taps with ceramic discs fitted to baths, shower taps, basins and laundry tubs or flick mixer tap as directed
Warranty	Minimum 2 year written warranty – standard taps Minimum 10 year written warranty – flick mixer ceramic disc cartridge





Component	TAPS
Sub-component	Kitchen
Need	To easily control water flow reliably for efficient water usage
Requirement	Bib tap / Pillar tap / Hob mounted sink set / Wall sink set / Flick mixer General
	 Materials, dimensions, finishes and performance tests to current Australian Standards Water supply metal bodied taps to current Australian Standards Standards Mark/ Water Mark/ Certificate of Approval Tap set / flick mixer 4 Star WELS rating All components made of brass base material, chrome plated or satin chrome finishes Dezincification resistant Standard tap set (separate taps and spout)
	 Taps to be vandal resistant Incorporate in tap flow regulator valves equivalent to "Aqualoc" or pressure compensating flow control (not required if flick mixer) Vandal proof aerator Set complete with outlet, spout or arm, and handles. Handles to be easily changed from minimum 65mm lever for separate hot and cold taps to longer levers Capstan or Lever handles length 65mm to 80mm handles
	Flick mixer
	 Top control single lever (no gooseneck type or pull out hose) 40mm diameter ceramic disc cartridge size Secured to sink with twin stud fixing or large hand tighten nut (approx. 50mm dia) or backing nut (approx. 40mm dia) with lock screws (no metallic C plate with single stud fixing) Connector tails flexible braided PEX with WaterMark AS/NZS3499 Can operate to water temperature of up to 70 degrees Install to manufacturers written specification (note, generally manufacturers stipulate isolating stop taps must be fitted to hot and cold water connection at wall outlet)
	Disability Modification
	 Tap handles as directed Quarter turn taps with ceramic disc fitted to kitchen sinks or flick mixer tap as directed
Warranty	Minimum 2 year written warranty – standard taps Minimum 10 year written warranty – flick mixer ceramic disc cartridge





1.5.11 Sink Unit

Component		SINK UNIT
Sub-component		Kitchen Sink
Need	To provide for washing rinsing and draining of food and utensils	
Requirement		
Warranty	Minimum 25 year written war	ranty





1.5.12 Laundry Tub

Component	LAUNDRY TUB
Sub-component	
Need	To wash and soak clothes and bedding
Requirement	To current Australian Standards Standards Mark/Watermark/Water Authority certificate of approval Detachable PVC or polyolefin bypass connected at top to current Australian Standard Tub Minimum 30 litre capacity (Studio) Minimum 45 litre capacity (1 to 2 bedroom) Minimum 68 litre capacity (3 to 6 bedroom – (for maintenance only) Minimum 304 stainless steel Indelibly marked with manufacturers name - trademark Cabinet White enamel/ pre-painted bonded finish to steel cabinet
Warranty	Minimum 25 year written warranty - stainless steel Minimum 10 year written warranty - the cabinet

1.5.13 Tap/Valve Tempering and Thermostatic Mixing

Component		TAP/VALV	
Sub-component		Tempering Valves/Thermostatic Mixing Valve	
Need	To ensure	ensure hot water does not scald tenants	
Requirement	1, 2 a Therr To cu Stand	1, 2 and 3 properties Thermostatic Mixing Valve only required in NCC Class 9 Properties To current Australian Standards Standard Mark/Water Mark/Sydney Water certificate of approval	
Warranty	Minimum	5 year written warranty	





1.5.14 Plumbing System – Potable Water

Component		PLUMBING SYSTEM
Sub-component		Potable Water
Need	To provide safe	, clean and healthy drinking water to homes
Requirement		pproval of the Principal is required to use alternate I in new construction and in maintenance work unless with like
	 To current Water Mar Recyclable Satisfies to including: VOC's (Vo Semi-Volation Regulated chromium, Any other of the can withstation Heat Resisting Celsius with Potable was affecting to 	Australian Standards k certificate of approval at end of life ests for contaminants to comply with AS/NZS4020 latile Organic Compounds) tile Organic Compounds heavy metals (Cadmium, lead, arsenic, barium, beryllium, mercury, selenium, thallium etc contaminant lifecycle tests joined using standard (non-exclusive) connectors which and required pressure levels stance able to withstand temperatures up to 85 degree thout failure atter delivered through the system contains no tainting aste or odour after accelerated tests representing 20 years NZS4020 and AS2492
Warranty	Minimum 25 ye	ar written warranty





1.5.15 Rainwater Tank

Component	WATER SUPPLY		
Sub-component	Rainwater Tank		
Need			
Requirement	All Rainwater Tanks above and below Ground To current Australian Standards All downpipes connected to the rainwater tank must have a screened downpipe rain head First Flush devices installed to suit system (above or below ground) Vermin and insect screens provided on all inlets and outlets Aluminium mesh mosquito screen All rainwater and stormwater pipes installed to eliminate ponding and stagnation of water In accordance with the Rainwater Tank Design and Installation Handbook HB 230-2008 published by Standards Australia All pumps, electrical, and plumbing must be located either adjacent to a building or positioned as not to cause trip hazards. Located in a vandal resistant enclosure Installation to manufacturers specification Above Ground Rainwater tanks Slimline rain water tanks Walls minimum G300S, Z450 0.6mm BMT steel Interior surface factory pre-painted with a food grade approved polymer (200 um thick) to AS2070 External walls galvanised or factory pre painted bonded finish Steel base minimum G300S, Z450 0.6mm BMT, with a food grade approved polymer 200um thick film to inner and outer surfaces Installed with first flush device, strainer, overflow and hose tap Tank stands certified by structural engineer Below Ground Rainwater tanks All below ground tanks installation must have engineering certification for design loadings and hydrostatic lift Below ground tanks cannot be installed underneath or as part of a Properties foundation. Preferred location underneath driveway or lawn Manufactured using concrete or food grade polymers, and independently certified not to leach chemicals into the water Monolithically poured or single seam free tanks with no joins of leakage points, reinforced, self supporting and engineered Inlet covers/lids to eliminate sunlight/algae/mosquitos and marked Rainwater		
Warranty	Minimum 20 year written warranty Above Ground Minimum 15 year written warranty Below Ground		





1.5.16 Water Heater

Component		WATER HEATERS	
Sub-component		Solar Water Heaters	
Need	To reliably prov	reliably provide hot water	
Requirement	Feneral To current Water Mar Installation written spee High energy Certificates Suitable for All Units, We Hard water exchanger Natural gase Solar Pane Solar Pane Tank on gr coupled the Gas Boost Minimum 1 Minimum 2 Minimum 3 Minimum 4	Australian Standards k/Authority Certificate of Approval including all valves to current Australian Standards and to manufacturers scification gy efficiency – Eligible for Small Scale Technology s r all NSW climate zones, except Alpine Region /alves and Piping to be frost protected to climate zone r or mineralised water areas to be glycol based using a heat (primarily NCC Climate zone 4) s or electricity boosted els (hail resistant) appropriate to zone area and size of tank els to be aligned between north east to north west round preferred, unless ground space is limited then close ermosiphon systems are allowed 70L with 5 star Gas Boost (all bedroom categories) 60L for (1 Bed) – close coupled for new construction 250L for (2 Bed) 800L for (3 to 4 Bed) 800L with 3 panels for households with 5 or more residents	
	 Capable of boost 	ost solar capable of off peak electricity supply operation frecovery of more than 50% of the tank capacity through	
IVVarrantV	Minimum 10 ye exchanger	ar written warranty - cylinder panels and heat	





Component		WATER HEATERS		
Sub-component		Gas Water Heaters		
Need	To reliably prov	eliably provide hot water		
Requirement	General To current Standards AGA appro Minimum 5 All Units, V Storage Mains pres 1 bedroom 2 bedroom 3 bedroom Instantaneous	To current Australian Standards Standards Mark/Water Mark/Water Authority Certificate of Approval AGA approval Minimum 5 star energy rating All Units, Valves and Piping to be frost protected torage Mains pressure: Floor Model (outdoor only) 1 bedroom minimum 90L 2 bedroom minimum 110L 3 bedroom and over, minimum 135L estantaneous (External installation only)		
	 further mechanical tempering device required Electronic ignition Frost protected Single or dual heat exchanger 1 bathroom Properties NCC Climate zone 6 to 8 – 16L to 26L NCC Climate zone 2 to 5 – 16L to 20L 			
		operties ate zone 6 to 8 – 26L to 32L ate zone 2 to 5 – 20L to 26L		
Warranty	Minimum 10 ye Instantaneous Minimum 3 yea	r written warranty - parts/labour ar written warranty – cylinder r written warranty - parts and labour ar written warranty - heat exchanger		





Component	WATER HEATERS
Sub-component	Electric Water Heaters
Need	To reliably provide hot water
Requirement	General
	 To current Australian Standards Standards Mark/Water Mark/ Water Authority Certificate of Approval All Units, Valves and piping must be frost protected
	Storage
	 50 and 80 ltr capacity (for maintenance only) Mains pressure Floor Model (indoor/outdoor) Studio and 1 bedroom - 125L 2 bedrooms - 250L - off peak 3 bedrooms and over - 315L - off peak Instantaneous Electrical cut-off Manufactured with inbuilt Pressure/Temperature relief valve Minimum. 4.5 L/ minute
Warranty	Storage Minimum 1 year written warranty - parts/labour Minimum 10 year written warranty – cylinder
	Instantaneous Minimum 3 year written warranty - parts/labour





Component			WATER HEATERS COMMERCIAL
Sub-component			Commercial Electric Water Heaters
Need	To reliably	provide hot v	water
Requirement	 To cul Stand Appro Extra Stainle Press Dual I Adjus Autom Provid Durab Comn 	rent Australi ards Mark / V val Long Life tar ess Steel or s urised tank landed conno able thermos latic Over Te le rust free w le pre-painte nercial mains	stat emperature Safety Cut off
Warranty	Minimum 1	0 year writte	n warranty (Cylinder)

Component			WATER HEATERS COMMERCIAL
Sub-component			Commercial Gas Water Heaters
Need	To reliably	provide hot	water
Requirement	To cui Stand Appro AGA Minim If intel with m Extra Stainle Press Dual h Adjus Autom Provic Durab Comn Storage Mains	rrent Australi ards Mark / V val Approval um 5 star er rnal in a plan hinimum 0.5r Long life tan ess steel or s urized tank (handed conn table Thermo hatic Over Te le rust free w hercial mains	nt room – all gas heaters must be flued to outside mm gauge galvanised steel flue k (Tank life more than 10 years – High grade similar durable material) either On Ground or Close Coupled) ections ostat emperature Safety Cut Off
Warranty	Minimum 1	0 year writte	en warranty (Cylinder)





1.6 Electrical and Gas

1.6.1 Intercom and Access Control

Component		ACCESS CONTROL
Sub-component	Inte	ercom and Door Control
Need	To provide a reliable, useable and secure device f access to buildings	or controlling
Requirement	 Vandal Resistant Intercoms Displays self explanatory user information Minimum 2mm Stainless Steel front with toug Polycarbonate Surround Impact resistant and fixed with anti-vandal fix Front plate to allow a minimum of six buttons modular units for additional features Optional space for shatterproof camera shield clear polycarbonate Stainless steel buttons, tamperproof and shall bodies being inserted underneath Linked to door release switch in units and interelease System Steel reinforced recessed entry panel with but surface and anti-removal device. Must operate the reliant on other communication services Installation to manufacturers specification 	ings with audio, expandable ded by minimum 4mm ped to prevent foreign ernal intercom Door
Warranty	Minimum 1 year written warranty	





1.6.2 Light Points

Component	LIGHT POINTS
Sub-component	Interior Common Area Lights
Sub-component Need Requirement	
	 Rated lamp life ≥ 20,000 nours Luminaire light Output Ratio (LOR) ≥ 0.7, evidenced by NATA accredited lab reports Lumen output of light source / lamps ≥ 70% of original output at end of the rated lifetime, evidenced by NATA accredited lab reports Luminaires with no hanging points as directed by the Principal to meet building criteria
	Luminaires must be securely fixed to the surface - no hanging fittings Continues





Continues

LED Lamps/Luminaires

- All luminaires must be vandal-resistant LED luminaires with occupancy sensors that maintain a low level of lighting when areas are unoccupied
- All luminaire models must have previously been used by an Accredited Certificate Provider to successfully create Energy Savings Certificates under the NSW Energy Savings Scheme
- All components of the light fitting including lamps, batteries, covers etc. must be able to be purchased and replaced individually
- LED rated lamp life ≥50,000 hours
- LED luminous efficacy ≥70 Lumens/Watt at full light output
- LED colour temperature 4000-5000K
- LED colour rendering index ≥80+
- Luminaire power factor ≥0.9+
- Lumen output of LED lamps ≥70% of original output at end of the rated lamp life
- Luminaire Light Output Ratio (LOR) ≥0.7
- All exposed equipment (luminaires, motion sensors, photocells, diffusers etc.) must be vandal resistant, IP65 rated, with ≥3mm thick impact-resistant polycarbonate covers **or** equivalent
- All motion sensors or other parts are to be securely contained within the luminaire, or fixed to the ceiling or luminaire using vandal resistant security/specialty screws and contained within IP65 rated ≥3mm thick impact-resistant polycarbonate covers **or** equivalent
- No equipment is to have leverage or hanging points
- Security/specialty/tamper proof screws are required for all fixings
- Luminaires must be fixed to ceilings using a drilling method no adhesive methods will be accepted

Warranty

Minimum 2 year written warranty

Minimum 3 year written warranty - all LED components





Component	LIGHT POINTS				
Sub-component	Exterior Light Fittings				
Need Requirement	To illuminate an area for safe pedestrian movement. For external areas with roofs/ceilings <3.5m, such as undercover walkways, car parks, stair wells etc, component requirements for Interior Common Area Lights apply for LED lamps/luminaires Modular carriage tray with electronic starter Weather proof IP65 rated				
	 Lights to reduce light spill and sited to illuminate pedestrian and mixed traffic areas in common areas, forecourts of cluster housing to improve safety and reduce shadow and potential hiding locations Meet current AS/NZS1158 Table 2.1 with selection criteria critically evaluating 'risk of crime' Performance to type 3 or 4 Luminaire classification to AS/NZS1158.3 Lights mounted high on posts or buildings and sited not to spill into windows or neighbouring buildings. Bollard lighting is not approved Meet current AS/NZS1158 and achieve a 'P1' for High levels of vandalism or 'P2' for Medium levels of vandalism in accordance with AS/NZS1158.3 				
	 Vandal proof moulded base Impact resistant moulded housing Vandal proof opalescent cover - U.V. stabilised diffuser Replaceable carriage tray with electronic starter No hanging point as directed by the Principal Light to be securely fixed with all cables secure and vandal resistant to prevent access Energy efficient Tri-phosphor globes and tubes or LED globes Installed to manufacturers written specification Performance to Type 3 or 4 Luminaire classification in accordance with AS/NZS1158.3 				
	Building and Car-Park Lighting				
	 Housing casing glass reinforced polyester or Nylon moulded plastic Vandal resistant moulded Polycarbonate diffuser Vandal resistant stainless steel clips Where possible all lights are to be fixed to buildings or other structures at a preferred height of 2m to 3.4m Pole Top Lighting All Pole top lighting to be 2m to 3.4m around pedestrian paths All Pole top lighting to be 3.4 to 4.5m around roadways Poles to suite 76 diameter or 100 diameter spigots Poles minimum 3.6mm thick x 75mm diameter minimum. 60 micron hot dipped galvanised M.S. post 				
	Notes				
	 Bollard and up-lighting types are NOT approved for new installations Design of lighting to comply with AS/NZS4282 Control of the Obtrusive Effects of Outdoor Lighting 				
Warranty	Minimum 2 year written warranty				





1.6.3 Stove

Component	STOVE
Sub-component	
Need	To cook food safely and effectively, allowing frying, grilling and baking
Requirement	Note: In all new construction, separate wall or under bench oven and cooktop only.
	Upright - (for maintenance only) To current Australian Standards Main Oven gross capacity minimum 75 litre 540 mm wide Combined or separate griller and oven compartments Fan Forced or conventional oven – Removable oven door with cool to touch window 4 hot plates or 4 burners: For Electric solid elements or ceramic glass cooktop (non induction) tested to IEC60335 For Gas - Electric or battery ignition, push to turn safety control, flame failure cut off for emergency Front control or side control buttons only Splashback to upright AGA approval where appropriate Cook Top - Electric or Gas To current Australian Standards Square white enamel painted finish or stainless steel or ceramic glass hob with front or side controls 4 hot plates or 4 burners; For Electric solid elements or ceramic glass cooktop (non induction) tested to IEC60335 For Gas - Electric or battery ignition, push to turn safety control, Flame failure cut off for emergency Heat residual warning indicator for ceramic glass cooktops AGA approval where appropriate
	 Wall Oven - Electric Only To current Australian Standards Oven gross capacity minimum 80 litre Combined or separate griller and oven compartments Fan Forced or conventional oven – Removable oven door with cool to touch window Disability Modification
	Cooktop and oven as directed Boarding House/Studio Replace like for like which may include 2 burner
Warranty	Minimum 2 year written warranty





1.6.4 Rangehood

Component	RANGEHOOD
Sub-component	
Need	To remove grease from cooking gases
Requirement	General
	 To current Australian Standards/Australian Gas Association/NSW Office of Energy and Climate Change Fixed undermount or pull out undermount Minimum 50 micron powder coating to galvanised steel casing AS marking, brand name, serial no. date code, rated air delivery, sound power level in dB(A) at rated air delivery and wattage branded on unit Minimum air flow rate 40L/s (144m3/hr) at maximum sound power level 55dB(A) to current Australian Standards Minimum 2 speed convertible fan & automatic thermostat cut-off electricity or impedance protected motor (withstand "locked rotor" conditions for 72 hours without burning out) Minimum 55 watt motor Minimum 3 blade plastic/metal propeller Multi layer aluminium / stainless steel filtration mesh grease filters Wiring encased in plastic conduits, within unit Width to match and align with cooktop or stove Installation to manufacturers specification Ducting Exhaust to outside To be minimum of 0.5mm galvanised steel ducting or 'Flexi-duct' similar fire or heat resistant material)
Warranty	Minimum 2 year written warranty - parts/labour Minimum 2 year written warranty - filters





1.6.5 Heating

Component		HEATING
Sub-component		Electric Space/Electric Panel Heaters
Need	To provide effic	ient and effective heating of a room
Requirement		only as approved by principal- consider replacing with air conditioning as per Homes NSW Heating and y)
	 To current 	Australian Standards
	Scheme at	e/panel heaters approved under the Certificate of Approval uthorised by the appropriate government agency with test and certify
		in accordance with Australia/New Zealand Wiring Rules Standards AS/NZS3000) and to local supply authority
	•	uding wall mounted or recessed or floor mounted) panel or
	Minimum 2	Pheat settings, (LO/HI) Thermostat control on high setting PkW (heat up to 55 m³) to Maximum 7kW (heat up to 160 mption capacity
	Minimum e	efficiency of greater than 95%
	Branded w licensed ui	reset thermal cut-out safety feature and fusible link. with manufacturers name to AS/NZS60355, supplier ander Standards Assoc. Certification Trademark to touch cabinet
Warranty	Minimum 2 yea	r written warranty





Component		HEATING	
Sub-component Gas S		Gas Space Heaters	
Need	To provide effici	ent and effective heating of a room	
Requirement		only as approved by principal- consider replacing ycle air conditioning as per Homes NSW Heating blicy)	
	To current A	Australian Standards	
	 Natural Gas 	s/Town only	
	 Room seale 	ed heater	
	electronic ig gases	ed convection heater, Thermostat heat control automatic unition, timer, regulated gas flow and flued combustion touch cabinet	
	Minimum 4.	3 efficiency stars and 6.0 emissions star rating	
	Double lined flue within ceiling space		
	 Heaters wit 	1 11466	
	-	minimum size: 5 MJ/hr	
		maximum size : 23 MJ/hr	
		appliances, specifying minimum allowable room volume y of heater in MJ/hr	
		to AGA requirements	
	AGA certific	ate of approval	
	Minimum 10 yea	rs written warranty - burner	
Warranty	Minimum 2 year	written warranty - fan	
-	Minimum 1 year	written warranty - other parts	





1.6.6 Dryer

Component	DRYERS
Sub-component	
Need	Dry washing efficiently and effectively
Requirement	Common Area Laundries and NCC Class 3 and 9 Properties (replacement only)
	 To current Australian Standards Minimum 3.5kg or 5kg capacity Auto cool down 2.5 hour timer – 3 heat settings Easy clean filter Safety door switch, Safety thermostat reset switch 2 directional air outlet and optional venting kit Wall mountable Minimum 2 star Energy Rating
Warranty	Minimum 2 year written warranty

1.6.7 Washing Machine

Component	WASHING MACHINE	
Sub-component		
Need	A means of automatically washing a variety of clothes and bedding types	
Requirement	Common Area Laundries and NCC Class 3 and 9 Properties (replacement only)	
	To current Australian Standards	
	Standards Mark/ Type Test Mark to NPADPS/ Water Authority certificate of approval	
	 Automatic washing machine, with rotary or push button control Stainless steel drum 	
	NCC Class 3 and Class 9 (minimum 7 kg load capacity)	
	Front loading	
	4 Star WELS rating	
	4 Star Energy rating	
	Common Area Laundries (minimum 5.5 kg or 6 kg load capacity)	
	Top loading	
	4 Star WELS rating	
	3 Star Energy rating	
Warranty	Minimum 2 year written warranty	





1.6.8 Reverse Cycle Air Conditioning

Component		AIR CONDITIONER	
Sub-component		Reverse Cycle Split System	
Need	To provide efficient and effective	ve heating and cooling of a room	
Requirement	NOTE: Installed only in NCC climate zones 7 and 8 and as per Homes NSW Heating and Cooling Policy or as directed. (do not remove Homes NSW installed air conditions in other climate zones without seeking direction) General		
	 Energy star rating 2.5 kw cooling model-heating 3.5 kw cooling model star heating 5.0 kw cooling model star heating 6.0 kw cooling model star heating Minimum number of fan spender indoor noise ≤ 50 dBs Outdoor noise ≤ 60 dBs Single Phase 240 V 	n 2.5 kw to maximum ≤ 7 kw minimum 5 star cooling, minimum 3 star - minimum 4.5 star cooling, minimum 3.0 - minimum 4.5 star cooling, minimum 2.5 - minimum 4 star cooling, minimum 2.5	
Warranty	Minimum 2 year written warran	ıty	





1.6.9 Solar Photo-Voltaic Panels

Component		SOLAR PHOTO-VOLTAIC PANELS
Sub-component		Panels and Inverter
Need	To generate electricity coupled	with a fixed voltage converter
Requirement	Photo Voltaic Panels (all mo	dels)
	and to current Australian a Efficiency > 15% Mean measured power person of the panel of the Clean Energy Court of the Clean Energy of the Clean Energy of the Clean Energy of the Clean Energy Court of the Clean Energy Court of the Clean Energy o	chnology Certificates (STC's) and be listed notil list of approved components of the provided fixed (tested to a component of the provided fixed fi
Warranty	Minimum 25 year written warra Minimum 10 year written warra	• •





1.6.10 Ceiling Fan

Component	CEILING FAN	
Sub-component		
Need	To effectively circulate air in a room	
Requirement	Ceiling Fans (all models)	
	To current Australian Standards	
	Fan with integral light	
	Minimum 1200mm diameter	
	Minimum 3 speed fan	
	Controller to be hard wired. Remote controls only supplied where directed	
	Provide control switching integrated with light switches	
	Fan to have reverse function	
	Unit suitable to fit LED globes	
	Installed to manufacturers specification and details	
Warranty	Minimum 2 year warranty	





1.7 Wood Space Heater

Component		WOOD SPACE HEATER
Sub-component		Wood Space Heaters
Need	To provide effic	ient and effective heating of a room
Requirement Not installed in new construction (for maintenand Not to be installed unless approved by Principal. Heating andCooling Policy directs wood space hereplaced		•
	General	
	 To current Australian Standards Test report prepared by registered NATA registered laboratory in compliance to AS/NZS4013. "Domestic Solid Fuel Burning appliances - Method for Determination of Flue gas emission" Maximum allowable appliance particulate emission factor to AS/NZS4013 (i.e. maximum 5.5g/kg for appliances without catalytic combustors) 	
	 Double line Minimum s Minimum s Installed b Branded w 	n firebox convection heater ed flue within ceiling space appliance efficiency rating of 60% size: 10kW (30MJ), Maximum size: 22kW (65MJ) y licensed installer to manufacturers written specification with manufacturers trademark, type, model and serial and emission report number of appliance and Standards
Warranty	Minimum 5 yea	r written warranty





1.8 Flooring

1.8.1 Underlay

Component	FLOORING
Sub-component	Underlay
Need	To provide safe, hygienic, hard wearing, underlay to maximize economic life from carpet
Requirement	General General
	 To current Australian Standards Meets current NCC and AS ISO9239-1 Recyclable and or made from recycled materials Minimum grading "Residential" as per AS4288 Class 2 Properties
	Synthetic foam
	 Rebonded polyurethane foam with stabilising laminate on top surface 7 mm minimum thickness 120 kg/m³ minimum foam density or rebounded polyurethane foam
	Vulcanised rubber
	 Heavy duty vulcanised rubber, waffle pattern Reinforcing fabric: either Hessian, spun Nylon, or Polyester Minimum sheet thickness: 7.5mm (+0.5) 210kg/m² minimum product mass
	Common Areas (class 2 Properties), class 3 Properties
	Synthetic foam
	 Rebonded polyurethane foam with stabilising laminate on top surface 7 mm minimum thickness 120kg/m³ minimum foam density or rebounded polyurethane foam
	Vulcanised rubber
	 Heavy duty vulcanised rubber, waffle pattern Reinforcing fabric: either Hessian, spun Nylon, or Polyester Minimum sheet thickness: 8mm (+0.5) 300kg/m² minimum product mass
Warranty	Minimum 10 year written warranty





1.8.2 Carpet

Component	FLOORING
Sub-component	Carpet
Need	To provide a safe, hygienic and comfortable surface for habitable areas of a Property or common area
Requirement	General Installation to current Australian Standards Fire rating to NCC (for all Building Class Types) Treated with Anti-Bacterial and Anti-Microbial Nylon/Wool Blend 100% Bulked Continuous Filament (BCF), solution dyed Nylon or Nylon/Wool blend (minimum 50% nylon) Loop pile tufted carpet Level pile surface or with slight modulation Minimum 31.5 tufts/10cm (1/8) gauge Minimum 678 g/m2 (20oz/yd2) total pile mass 5mm maximum pile height "Actionbac" or Jute backing or minimum 80% recycled stitch bond non woven polyester A.C.C.S. rating for Residential Extra Heavy Duty (Stairs) A.C.C.S. Registration number to appear on back at regular intervals Colour as approved by Principal Carpet range and quality as approved by Principal
	Wool Types
	 100% wool carpet or wool blend (minimum 80% wool) Loop pile tufted carpet Level pile surface or with slight modulation 31.5 tufts/10cm (1/8) gauge 1356 g/m2 (40oz/yd2) total pile mass 6mm maximum pile height "Actionbac" or Jute backing or minimum 80% recycled stitch bond non woven polyester ACCS (Australian Carpet Classification Scheme) rating for Residential Extra Heavy Duty including stairs Colour as approved by Homes NSW Carpet range and quality as approved by Principal A.C.C.S. Registration number to appear on back at regular intervals
Warranty	Minimum 10 year written warranty





1.8.3 Resilient Sheet and Tiles

Need To provide safe, hygienic, hard wearing, waterproof and cleanable surface Requirement Note: These provisions apply to complete new installations. Existing spot replacement or repair use Resilient Flooring to mat the existing installed product • Manufacture, Installation and Maintenance to current Australian Standards • Use water based adhesives • All sheet, flooring seams shall be welded (either chemical or thermal) to manufacturers specification • Initial care of all installed materials shall be carried out to manufacturers specification • Floor-coverings shall conform to the physical characteristics of approved samples and shall be within the limits of any sample ra or variation in colour and pattern • Products containing recycled materials are preferred Class 1 and 2 Properties − Vinyl Composition tiles (ISO10595 Kitchens, Dining Rooms and Hallways etc) For properties where sound transmission from unit above may be concern, consider using cushioned back heterogeneous • Concrete floors laid on suitable levelling compound; Timber floor laid on Hardboard (not MDF), FC sheet underlay or other approvunderlay • Vinyl thickness: 3mm (ISO24346) • Type II − through pattern tile • Minimum R9 slip resistance • Fire rating ISO9239.1 >11kW/m² Class 1 and 2 Properties − Luxury Vinyl (LV) Tiles / Planks (ISO10582 Kitchens, Dining Rooms and Hallways etc) For properties where sound transmission from unit above may be concern, consider using cushioned back heterogeneous • Concrete floors laid on suitable levelling compound; Timber flooring to the properties where sound transmission from unit above may be concern, consider using cushioned back heterogeneous • Concrete floors laid on suitable levelling compound; Timber flooring laid on Hardboard (not MDF), FC sheet underlay or other approvunderlay • Thickness: Minimum 2mm − Maximum 3mm • Direct glue fixed (not floating floor) • Minimum 0.5mm wear layer. • Wear classification: Type 1 Wear Layer Binder content • Slip resistance minimum R9 • Fire rating ISO9239.1 ≥	Component	FLOORING
Requirement Note: These provisions apply to complete new installations. Existing spot replacement or repair use Resilient Flooring to mat the existing installed product • Manufacture, Installation and Maintenance to current Australian Standards • Use water based adhesives • All sheet, flooring seams shall be welded (either chemical or thermal) to manufacturers specification • Initial care of all installed materials shall be carried out to manufacturers specification • Floor-coverings shall conform to the physical characteristics of approved samples and shall be within the limits of any sample ra or variation in colour and pattern • Products containing recycled materials are preferred Class 1 and 2 Properties – Vinyl Composition tiles (ISO10595 Kitchens, Dining Rooms and Hallways etc) For properties where sound transmission from unit above may be concern, consider using cushioned back heterogeneous • Concrete floors laid on suitable levelling compound; Timber floors laid on Hardboard (not MDF), FC sheet underlay or other approving underlay • Vinyl thickness: 3mm (ISO24346) • Type II – through pattern tile • Minimum R9 slip resistance • Fire rating ISO9239.1 > 11kW/m² Class 1 and 2 Properties – Luxury Vinyl (LV) Tiles / Planks (ISO10582 Kitchens, Dining Rooms and Hallways etc) For properties where sound transmission from unit above may be concern, consider using cushioned back heterogeneous • Concrete floors laid on suitable levelling compound; Timber floors laid on Hardboard (not MDF), FC sheet underlay or other approvinderlay • Thickness: Minimum 2mm – Maximum 3mm • Direct glue fixed (not floating floor) • Minimum 0.5mm wear layer. • Wear classification: Type 1 Wear Layer Binder content • Slip resistance minimum R9 • Fire rating ISO9239.1 ≥ 8kW/m2	Sub-component	Resilient Sheet and Tiles
Existing spot replacement or repair use Resilient Flooring to mat the existing installed product Manufacture, Installation and Maintenance to current Australian Standards Use water based adhesives All sheet, flooring seams shall be welded (either chemical or thermal) to manufacturers specification Initial care of all installed materials shall be carried out to manufacturers specification Floor-coverings shall conform to the physical characteristics of approved samples and shall be within the limits of any sample ra or variation in colour and pattern Products containing recycled materials are preferred Class 1 and 2 Properties – Vinyl Composition tiles (ISO10595 Kitchens, Dining Rooms and Hallways etc) For properties where sound transmission from unit above may be concern, consider using cushioned back heterogeneous Concrete floors laid on suitable levelling compound; Timber floors laid on Hardboard (not MDF), FC sheet underlay or other approve underlay Vinyl thickness: 3mm (ISO24346) Type II – through pattern tile Minimum R9 slip resistance Fire rating ISO9239.1 >11kW/m² Class 1 and 2 Properties – Luxury Vinyl (LV) Tiles / Planks (ISO10582 Kitchens, Dining Rooms and Hallways etc) For properties where sound transmission from unit above may be concern, consider using cushioned back heterogeneous Concrete floors laid on suitable levelling compound; Timber floors laid on Hardboard (not MDF), FC sheet underlay or other approve underlay Thickness: Minimum 2mm – Maximum 3mm Direct glue fixed (not floating floor) Minimum 0.5mm wear layer. Wear classification: Type 1 Wear Layer Binder content Slip resistance minimum R9 Fire rating ISO9239.1 ≥ 8kW/m2	Need	, , , , , , , , , , , , , , , , , , , ,
Standards Use water based adhesives All sheet, flooring seams shall be welded (either chemical or thermal) to manufacturers specification Initial care of all installed materials shall be carried out to manufacturers specification Floor-coverings shall conform to the physical characteristics of approved samples and shall be within the limits of any sample ra or variation in colour and pattern Products containing recycled materials are preferred Class 1 and 2 Properties − Vinyl Composition tiles (ISO10595 Kitchens, Dining Rooms and Hallways etc) For properties where sound transmission from unit above may be concern, consider using cushioned back heterogeneous Concrete floors laid on suitable levelling compound; Timber floors laid on Hardboard (not MDF), FC sheet underlay or other approve underlay Vinyl thickness: 3mm (ISO24346) Type II − through pattern tile Minimum R9 slip resistance Fire rating ISO9239.1 > 11kW/m² Class 1 and 2 Properties − Luxury Vinyl (LV) Tiles / Planks (ISO10582 Kitchens, Dining Rooms and Hallways etc) For properties where sound transmission from unit above may be concern, consider using cushioned back heterogeneous Concrete floors laid on suitable levelling compound; Timber floors laid on Hardboard (not MDF), FC sheet underlay or other approvunderlay Thickness: Minimum 2mm − Maximum 3mm Direct glue fixed (not floating floor) Minimum 0.5mm wear layer. Wear classification: Type 1 Wear Layer Binder content Slip resistance minimum R9 Fire rating ISO9239.1 ≥ 8kW/m2	Requirement	Existing spot replacement or repair use Resilient Flooring to match
Kitchens, Dining Rooms and Hallways etc) For properties where sound transmission from unit above may be concern, consider using cushioned back heterogeneous • Concrete floors laid on suitable levelling compound; Timber floors laid on Hardboard (not MDF), FC sheet underlay or other approve underlay • Vinyl thickness: 3mm (ISO24346) • Type II – through pattern tile • Minimum R9 slip resistance • Fire rating ISO9239.1 >11kW/m² Class 1 and 2 Properties – Luxury Vinyl (LV) Tiles / Planks (ISO10582 Kitchens, Dining Rooms and Hallways etc) For properties where sound transmission from unit above may be concern, consider using cushioned back heterogeneous • Concrete floors laid on suitable levelling compound; Timber floors laid on Hardboard (not MDF), FC sheet underlay or other approve underlay • Thickness: Minimum 2mm – Maximum 3mm • Direct glue fixed (not floating floor) • Minimum 0.5mm wear layer. • Wear classification: Type 1 Wear Layer Binder content • Slip resistance minimum R9 • Fire rating ISO9239.1 ≥ 8kW/m2		 Standards Use water based adhesives All sheet, flooring seams shall be welded (either chemical or thermal) to manufacturers specification Initial care of all installed materials shall be carried out to manufacturers specification Floor-coverings shall conform to the physical characteristics of approved samples and shall be within the limits of any sample range or variation in colour and pattern
underlay Vinyl thickness: 3mm (ISO24346) Type II – through pattern tile Minimum R9 slip resistance Fire rating ISO9239.1 >11kW/m² Class 1 and 2 Properties – Luxury Vinyl (LV) Tiles / Planks (ISO10582 Kitchens, Dining Rooms and Hallways etc) For properties where sound transmission from unit above may be concern, consider using cushioned back heterogeneous Concrete floors laid on suitable levelling compound; Timber floors laid on Hardboard (not MDF), FC sheet underlay or other approve underlay Thickness: Minimum 2mm – Maximum 3mm Direct glue fixed (not floating floor) Minimum 0.5mm wear layer. Wear classification: Type 1 Wear Layer Binder content Slip resistance minimum R9 Fire rating ISO9239.1 ≥ 8kW/m2		Kitchens, Dining Rooms and Hallways etc) For properties where sound transmission from unit above may be a concern, consider using cushioned back heterogeneous • Concrete floors laid on suitable levelling compound; Timber floors
 (ISO10582 Kitchens, Dining Rooms and Hallways etc) For properties where sound transmission from unit above may be concern, consider using cushioned back heterogeneous Concrete floors laid on suitable levelling compound; Timber floors laid on Hardboard (not MDF), FC sheet underlay or other approve underlay Thickness: Minimum 2mm – Maximum 3mm Direct glue fixed (not floating floor) Minimum 0.5mm wear layer. Wear classification: Type 1 Wear Layer Binder content Slip resistance minimum R9 Fire rating ISO9239.1 ≥ 8kW/m2 		underlay Vinyl thickness: 3mm (ISO24346) Type II – through pattern tile Minimum R9 slip resistance
 laid on Hardboard (not MDF), FC sheet underlay or other approve underlay Thickness: Minimum 2mm – Maximum 3mm Direct glue fixed (not floating floor) Minimum 0.5mm wear layer. Wear classification: Type 1 Wear Layer Binder content Slip resistance minimum R9 Fire rating ISO9239.1 ≥ 8kW/m2 		(ISO10582 Kitchens, Dining Rooms and Hallways etc) For properties where sound transmission from unit above may be a
Continuo		laid on Hardboard (not MDF), FC sheet underlay or other approved underlay Thickness: Minimum 2mm – Maximum 3mm Direct glue fixed (not floating floor) Minimum 0.5mm wear layer. Wear classification: Type 1 Wear Layer Binder content Slip resistance minimum R9
Continue		Continues





Component	FLOORING
	Continues
	Class 1 and 2 Properties – Homogenous Sheet (ISO10581 Kitchens, Dining Areas and Hallways etc) For properties where sound transmission from unit above may be a concern, consider using cushioned back heterogeneous
	 Concrete floors laid on suitable levelling compound, Timber floors laid on Hardboard (not MDF), FC sheet underlay or other approved underlay Thickness: Minimum 2mm – Maximum 3mm sheet vinyl Polyurethane Reinforced Wear classification: Type I Binder content Minimum R9 Slip Resistance Fire rating ISO9239.1 ≥8kW/ m²
	Class 1 and 2 Properties – Heterogeneous Sheet (ISO10582 Kitchens, Dining Areas and Hallways etc) For properties where sound transmission from unit above may be a concern, consider using cushioned back heterogeneous
	 Concrete floors laid on suitable levelling compound, Timber floors laid on Hardboard (not MDF), FC sheet underlay or other approved underlay Thickness: Minimum 2mm – Maximum 3mm sheet vinyl Polyurethane Reinforced Wear classification: Type I Wear Layer Binder content Minimum R9 Slip Resistance Fire rating ISO9239.1 ≥8kW/m²
	Class 2 and 3 Properties – Cushioned Backed Heterogeneous sheet (EN651)
	 Concrete floors laid on suitable levelling compound, Timber floors laid on Hardboard (not MDF), FC sheet underlay or other approved underlay Thickness: Minimum 3mm sheet vinyl Polyurethane Reinforced Minimum R10 slip resistance Wear classification: Type I Wear Layer Binder content Minimum 14dB sound reduction Easy Clean top layer Fire rating ISO9239.1 ≥8kW/m²
	Continues





Component	FLOORING	
	Continues	
	Wet Area (Floors) – Written approval of Principal is required prior to use	
	 Homogenous Slip Retardant Vinyl sheet (ISO10581) Thickness: Minimum 2mm sheet vinyl Wear classification: Type I Binder content Fire Rating: (ISO9239.1 ≥8kW/m²) Slip resistance: AS4586 (B Wet/Barefoot and R10 Oil/wet ramp) Integral 150mm high coved skirting in all wet areas, Cove skirting to be installed with capping strip to prevent water penetration 32mm diameter cove fillet to be used where vinyl is coved Products containing abrasive material in order to comply will not be considered 	
	Wet Area (Walls) – Written approval of Principal is required prior to use	
	 Homogenous Vinyl sheet (ISO10581) Thickness: Minimum 1.25mm Polyurethane Reinforced Fire Rating (AS5637.1) Group 2 or Group 1 	
Warranty	Minimum 7 year written warranty Minimum 10 year written warranty – Luxury Vinyl Flooring	

1.9 Signage

1.9.1 House and Unit Numbering

Component		SIGNAGE	
Sub-component			Numbering (Street/Unit)
Need	Тор	rovide legil	ble identification of address
Requirement	•	minimum h or polished painted ste building/str Unit numer or polished Letterbox r aluminium Community	reet numerals and building block numerals to be 150mm high 1.6mm thick plain brass (secured with brass screws) dicast aluminium or self-reflective numerals on presel base (secured with stainless steel screws) fixed to ructure rals to be 50mm minimum high x 1.6mm thick plain brass dicast aluminium or moulded plastic screw fixed to door numerals to be 50mm minimum high x 1.6mm thick brass//plastic screw fixed to front of letterbox y room WC doors as for unit numerals me and numerals (if required) as for external street
Warranty	Mini	mum 1 yea	r written warranty





1.9.2 Information, Direction & Prohibition Signage

Component		SIGNAGE
Sub-component		Advisory / Information or Prohibition Signage
Need	To provide area	legible information and advice for people in or around the
Requirement	Prohib comple Either where Signs Low Dens plastic/wo UV sta Fadin Minim Non-te Minim Round Pre Painte Suitab Minim	bition signs and symbols (No Smoking, Electrical hazard etc) to ly with current Australian Standards (225x300 mm (approx A4) or 300x450 mm (approx A3) — eviewing is required at a distance of greater than 10m away and numbers to be non reflective (ity Polyethylene and/or Polypropylene and/or co-mingled bod (Recycled product) (Recycled
	vanda	al resistant screws)
Warranty	Life expec	tancy 5-8 years





Life Safety Plan			
R	Α	С	E
Remove people in immediate danger	Alert others - Raise the Alarm	Close the door	Evacuate to assembly area
六			
	Evacuation	Drocodure	

- Evacuation Proc
- 1. Remain calm. Do not Panic.
- 2. Leave building. Do not use lifts.
- Proceed to assembly areas.
- 4. At assembly areas call 000.
- Remain there until otherwise directed by emergency services.
- 6. Always keep escape paths free of obstacles.

IN AN EMERGENCY DIAL 000

"Evacuation diagram to be inserted here"

SAMPLE ONLY

END OF COMPONENT REQUIREMENTS - PART 1





PART 2- FIRE SAFETY SYSTEM COMPONENTS

2.1 Emergency Lighting

2.1.1 Recessed or surface mount Emergency LED light

Component	EMERGENCY LIGHTING		
Sub-component	Recessed or surface mount Emergency LED light		
Need	Replacement or relocation of emergency lighting assembly		
Requirement	 General To current Australian Standards Single Recessed or Surface LED emergency light Covers all sizes 		
	Performance		
	 Compliant with the requirements of AS/NZS 60598.1 Installed in accordance with AS2293.1 Luminaire Classification shall be equivalent or higher than existing unit in accordance with AS2293.3 24Vdc or 240Vac as applicable, ensuring current draw is suitable for circuit or supply device Minimum life expectancy of 50,000 hrs 		
	Material and/or Manufacture		
	 Housing and frame shall be either: Powder coated steel or diecast aluminium Polycarbonate Water/dust ingress rating (IP) must be suitable for the installation environment Emergency luminaires must be self-contained with a self static inverter System including battery and battery charger to be non-corrosive Any battery compartments must be either inaccessible or accessible only via vandal resistant security/specialty screws 		
	Fire Rating		
	 If installed into a fire rated ceiling, a FR downlight cover shall be installed above the light to maintain the fire integrity of the ceiling element If surface mounted to an FR ceiling, the cable penetration must be appropriately fire sealed 		
	Certification		
	 As per Work Requirements Ensure luminaire remains energised for a minimum of 24 hours prior to conducting required battery test 		





2.1.2 Circular Emergency Light

Component	EMERGENCY LIGHTING
Sub-component	Circular Emergency Light
Need	Replacement or relocation of emergency lighting assembly
Requirement	General
	 To current Australian Standards Single circular LED emergency light Covers all sizes
	Performance
	 Compliant with the requirements of AS/NZS 60598.1 Installed in accordance with AS2293.1 Luminaire Classification shall be equivalent or higher than existing unit in accordance with AS2293.3 24Vdc or 240Vac as applicable, ensuring current draw is suitable for circuit or supply device Minimum life expectancy of 50,000 hrs
	Material and/or Manufacture
	 Housing and frame shall be either: Powder coated steel or diecast aluminium Polycarbonate Water/dust ingress rating (IP) must be suitable for the installation environment Emergency luminaires must be self-contained with a self static inverter. System including battery and battery charger to be non-corrosive Any battery compartments must be either inaccessible or accessibleonly via vandal resistant security/specialty screws
	Fire Rating
	If surface mounted to an FR ceiling, the cable penetration must be appropriately fire sealed
	Certification
	 As per Work Requirements Ensure luminaire remains energised for a minimum of 24 hours prior to conducting required battery test
Warranty	Minimum 3 year written warranty





2.1.3 Batten Type Emergency Light

Component	Emergency Lighting
Sub-component	Batten Type Emergency Light
Need	Replacement or relocation of emergency lighting assembly
Requirement	 General To current Australian Standards Batten type LED emergency light Covers single and double batten and all lengths
	Performance
	 Compliant with the requirements of AS/NZS 60598.1 Installed in accordance with AS2293.1 Luminaire Classification shall be equivalent or higher than existing unit in accordance with AS2293.3 24Vdc or 240Vac as applicable, ensuring current draw is suitable for circuit or supply device Minimum life expectancy of 50,000 hrs
	Material and/or Manufacture
	 Housing and frame shall be either: Powder coated steel or diecast aluminium Polycarbonate Water/dust ingress rating (IP) must be suitable for the installation environment Where tamper proof diffuser is required, it shall be impact resistant poly carbonate with secure access screws Emergency luminaires must be self-contained with a self static inverter. System including battery and battery charger to be non-corrosive Any battery compartments must be either inaccessible or accessible only via vandal resistant security/specialty screws
	Fire Rating
	If mounted to an FR ceiling, the cable penetration must be appropriately fire sealed
	Certification
	 As per Work Requirements Ensure luminaire remains energised for a minimum of 24 hours prior to conducting required battery test
Warranty	Minimum 3 year written warranty





2.1.4 Emergency lighting circuit test switch

Component		EMERGENCY LIGHTING	
Sub-component		Emergency lighting circuit test switch	
Need	Installation or re	Installation or replacement of emergency lighting circuit test switch	
Need Requirement	General To curre Semi au lighting Covers Performance Complia Installee Installee Ensure circuits Material and/or Water/or environ Where tampers barrel) Certification	 Installation or replacement of emergency lighting circuit test switch General To current Australian Standards Semi automate discharge testing of single point emergency lighting fittings including contractor Covers all number of poles / circuits Performance Compliant with the requirements of AS2293.2 Installed in accordance with AS2293.1 Ensure contactor/relay is appropriately sizes to suit number of circuits and applicable electrical loads Material and/or Manufacture Water/dust ingress rating (IP) must be suitable for the installation environment Where installed in common areas, unit enclosure shall be tamperproof and feature key switch operation only (003 key barrel) 	
Warranty	Minimum 3 yea	r written warranty	





2.1.5 Emergency lighting self-test chip

Component	EMERGENCY LIGHTING
Sub-component	Emergency lighting self-test chip
Need	Installation or replacement of emergency lighting self-test chip in the existing emergency luminaire.
Requirement	Performance Compliant with the requirements of AS2293.2 Installed in accordance with AS2293.1 Compatible with the model of existing luminaire Test results reported via LED indicator without the need for additional devices or software Certification As per Work Requirements Operational test of chip to ensure correct functionality as per manufactures recommendations
Warranty	Minimum 3 year written warranty





2.1.6 Evacuation lighting luminaire for Class 1b

Component	EMERGENCY LIGHTING	
Sub-component	Evacuation lighting/luminaire for Class 1b	
Need	Replacement or relocation of Emergency lighting luminaire for Class 1b	
Requirement	General	
	 To current Australian Standards Single Recessed or Surface LED emergency light Covers all sizes 	
	Performance	
	 Compliant with the requirements of AS/NZS 60598.1 Luminaire Classification shall be equivalent or higher than existing unit in accordance with AS2293.3 24Vdc or 240Vac as applicable, ensuring current draw is suitable for circuit or supply device Minimum life expectancy of 50,000 hrs 	
	Material and/or Manufacture	
	 Housing and frame shall be either: Powder coated steel or diecast aluminium Polycarbonate Water/dust ingress rating (IP) must be suitable for the installation environment 	
	Fire Rating	
	 If installed into a fire rated ceiling, a FR downlight cover shall be installed above the light to maintain the fire integrity of the ceiling element If surface mounted to an FR ceiling, the cable penetration must be appropriately fire sealed 	
	Certification	
	 As per Work Requirements Ensure luminaire remains energised for a minimum of 24 hours prior to conducting required battery test 	
Warranty	Minimum 3 year written warranty	





2.1.7 Remote LED indicate

Component	EMERGENY LIGHTING	
Sub-component	Remote LED indicator	
	Remote LED indicator outside the entrance doorway of an SOU to indicate fire within SOU.	
	General	
	To current Australian StandardsRemote LED indicator/ beacon	
F	Performance	
	 Compliant with the requirements of AS7240.23 24Vdc or 240Vac as applicable, ensuring current draw is suitable for panel or supply device Ceiling (c), Wall (W) type device as applicable to application 	
l l	Material and/or Manufacture	
	 Steel or plastic body Water/dust ingress rating (IP) must be suitable for the installation environment 	
c	Certification	
	As per Work Requirements	
Warranty N	Minimum 3 year written warranty	





2.1.8 Exit Luminaire

Component	EMERGENCY LIGHTING	
Sub-component	Exit Luminaire (Sign)	
Need	Replacement or relocation of Exit luminaire	
Requirement	General To current Australian Standards All types of Exit luminaires (illuminated exit signs) Performance Compliant with the requirements of AS/NZS 2293.3 Installed in accordance with AS2293.1 Exit sign location and signage type shall be identical to exiting unit Where exit luminaire is also used to serve an emergency lighting functionally, its luminaire classification should be at least equivalent to the existing unit 24Vdc or 240Vac as applicable, ensuring current draw is suitable for circuit or supply device Minimum life expectancy of 50,000 hrs Material and/or Manufacture Housing and frame shall be either: Powder coated steel or diecast aluminium	
	 Polycarbonate Water/dust ingress rating (IP) must be suitable for the installation environment Emergency exit sign must be self-contained with a self static inverter. System including battery and battery charger to be non-corrosive Any battery compartments must be either inaccessible or accessible only via vandal resistant security/specialty screws 	
	Fire Rating	
	If mounted to an FR ceiling or wall, the cable penetration must be appropriately fire sealed	
	 Certification As per Work Requirements Ensure luminaire remains energised for a minimum of 24 hours prior to conducting required battery test 	
Warranty	Minimum 3 year written warranty	





2.1.9 Emergency lighting circuit breaker

Component	EMERGENCY LIGTHTING
Sub-component	Emergency lighting circuit breaker
Need	Installation or replacement of emergency lighting circuit breaker
Requirement	To current Australian Standards Covers all number of poles / circuits and amperage ratings Performance Compliant with the requirements of IEC 60898-1:2015 ("household") or IEC 60947-2 ("industrial") as appropriate Ensure breaker is appropriately sizes to suit number of circuits and applicable electrical loads Ensure trip curve is appropriate to application Material and/or Manufacture Water/dust ingress rating (IP) must be suitable for the installation environment Mounting type to suit switch board or enclosure Certification As per Work Requirements Minimum 3 year written warranty
vvarranty	willing year written warranty





2.2 Portable Extinguishers

2.2.1 CO2, ABE, Water and Wet Chemical Portable Extinguishers

Component	PORTABLE EXTINGUISHERS
Sub-component	CO2, ABE, Water and Wet chemical Portable Extinguishers
Need	Replacement of existing portable fire extinguisher
Requirement	General
	 To current Australian Standards Fit only where directed by the Principal 1kg to 9kg portable fire extinguisher Covers CO2, ABE, Water, Wet chemical Type Performance
	 Complies with AS/NZS 1841.5 Location in accordance with AS2444 Fire rating performance and sizing shall be equivalent or greater than the unit being replaced Signage – In accordance with AS2444 – Figure 3.1, including 16mm height white lettering on red background Wall mount bracket – Universal zinc plated wall bracket to suits relevant extinguisher size
	Material and/or Manufacture
	 Cylinder – Mild steel powder coated red Handle – Stainless steel Valve – Nickel plated brass
	Installation
	 Installed in accordance with manufacturing instruction Extinguisher shall be installed in accordance with AS2444 – Section 3, including: A maximum height not exceeding 1200mm from FFL and not below 100mm from FFL. Signage shall be installed in accordance with AS2444 – Section 3.3, including: Not below 2000mm from FFL Shall be clearly visible from a distance up to 20m in all directions of approach Certification As per Work Requirements AS1851 Maintenance and testing tags
Warranty	Minimum 5 year written warranty





2.2.2 Fire Extinguisher cabinet

Component	PORTABLE EXTINGUISHERS			
Sub-component	Fire Extinguisher cabinet			
Need	Replacement of break glass type fire extinguisher cabinet			
Requirement	General			
	To current Australian StandardsBreak glass type fire extinguisher cabinet			
	Performance			
	 Sized to suit correct weight of required portable extinguisher Break glass window with key to serve 003 key lock Viewing window 			
ı	Material and/or Manufacture			
	 Steel body with UV resistant red powder coating Perspex "break glass" and viewing window 			
l	Installation			
	Install in accordance with manufacturing instruction			
	Certification			
	As per Work Requirements			
Warranty	Minimum 1 year written warranty			





2.3.1 Fire Hose Reel

Component	FIRE HOSE REEL		
Sub-component	19mm x 36m fire hose reel and isolation valve		
Need	Replacement of existing fire hose reel assembly		
Requirement	 General To current Australian Standards 19mm x 36m fire hose reel assembly and isolation valve Fire Hose Reel (FHR) type should be fixed permanently to a structure (with or without cabinet) 		
	Performance		
	 Compliant with the requirements of AS/NZS1221 Amendment 1 for a 19mm type hose reel system, including a minimum flow rate of 0.33 L/s 		
	Material and/or Manufacture		
	 Reel constructed of mild steel and painted signal red All values and nozzles must be constructed of brass 		
	Hardware		
	 19mm internal diameter PVC hose at 36m total length.Mounting bracket 25mm brass ball type isolation valve Galvanised steel connection pipe Zinc plated hose guide Brass "twist action type" nozzle Cabinet (if required) – Wall mounted steel cabinet powder coated in signal red to suit 36m hose reel. Including Break glass key window 003 lock and 2 keys 		
	Installation		
	 Install in accordance with manufacturing instruction Installation standard AS2441 Amendment 1 Fixing type Internal installation – Zinc passivated type expansion anchor External installation – Galvanised type expansion anchor Identification signage – In accordance with AS2441 – Section10.4 Certification As per Work Requirements System to be commissioned in accordance with AS2441 Section 12 Tag permanent fixed including following information:		
Warranty	Minimum 1 year written warranty		





2.3.2 Fire Hose Reel Pump

Component	FIRE HOSE REEL
Sub-component	Fire hose reel pump
Need	Replacement of existing fire hose reel pump
Requirement	General
	 To current Australian Standards Electric fire hose reel pump Includes appropriately sized pressure accumulator
	Performance
	 Compliant with the requirements of AS2941 Performance requirements in accordance with AS1221
	Material and/or Manufacture
	Water/dust ingress rating (IP) must be suitable for the installation environment
	Installation
	 Install in accordance with manufacturing instruction Wiring and circuit type to meet the requirements of AS3000 for fire pumps
	Certification
	 As per Work Requirements Marking in accordance with AS2941 Section 6.10 System to be commissioned in accordance with AS2441 Section 12 ensuring require pressure and flow is achieved at the required Fire Hose Reels
Warranty	Minimum 1 year written warranty





2.3.3 Lever handled Fire Hose Reel Cabinet

Component		FIRE HOSE REEL		
Sub-component		Lever handled fire hose reel cabinet		
Need	Replacement of Lever handled fire hose reel cabinet			
Requirement	General			
		Australian Standards ted lever handled fire hose reel cabinet		
	Performance			
	clearances	it correct size of hose reel system including required in accordance with AS2441 Iled door mechanism		
	 Enclosure 	shall be marked with the words "FIRE HOSE REEL" in with AS2441		
	Material and/or Manufacture			
	Steel body	with UV resistant red powder coating.		
	Installation			
	Install in actions	ccordance with manufacturing instruction		
	Certification			
	As per Work F	Requirements		
Warranty	Minimum 1 year w	ritten warranty		





2.4 Fire Hydrant Landing Valve

Component	FIRE HYDRANT		
Sub-component	Fire Hydrant Landing Valve		
Need	Remove and replacement of existing fire hydrant landing valve		
Requirement	General		
	 To current Australian Standards Replacement hydrant Landing Valve with Storz outlet Performance		
	 65mm Hydrant landing valve with Storz Outlet compliant to AS2419.2 AS/NZS3500.1– Plumping connections Approved to AS2345 – Dezincification test 		
	Material and/or Manufacture		
	Forged aluminium Storz adaptorBrass body finished in signal red		
	Hardware		
	 Outlet - Forged aluminium semi-permanent female Storz adaptor Inlet – 80mm roll groove/ 65mm BSP Female (as applicable) Where previously fitted or if otherwise required a hydrant valve security device of similar construction shall be fitted to the hydrant landing valve 		
	Installation		
	Install in accordance with manufacturing instruction		
	As per Work Requirements System to be commissioned in accordance with AS2419.1 – Section 12 Disc tag either metal or UV resistant not less than 20mm in diameter displaying the hydrant number in accordance with AS2149 Section 3.2.2.1		
Warranty	Minimum 1 year written warranty		





2.4.1 Fire Hydrant or Sprinkler Booster Cabinet

Component	FIRE HYDRANT		
Sub-component	Fire Hydrant or Sprinkler Booster Cabinet		
Need	Replacement of Fire Hydrant or Sprinkler Booster Cabinet		
Requirement	General		
	To current Australian StandardsFire Hydrant or Sprinkler Booster Cabinet		
	Performance		
	 Sized to house the required hydrant or sprinkler system with the minimum clearances in accordance with AS2419 – Section 11.2 Lever handled door mechanism with 003 key type lock Enclosure shall be marked with the appropriate fade and weather resistant signage" in accordance with AS2419 – Section 11.3 		
	Material and/or Manufacture		
	Steel body with UV resistant red powder coating		
	Installation		
	Install in accordance with manufacturing instruction		
	Certification		
	As per Work Requirements		
Mamanta	Minimo una di una nu unitta ni una manti di		
Warranty	Minimum 1 year written warranty		





2.4.2 Fire Hydrant Block Plan

Component	FIRE HYDRANT		
Sub-component	Fire Hydrant Block Plan		
Need	Replacement or supply of fire hydrant block plan		
Requirement	General		
	 To current Australian Standards Replacement of existing fire hydrant block plan Where required development and supply of associated digital artwork file 		
	Performance		
	 Design and manufactured in accordance with AS2419 – Section 11.5, including in a size not less than A3 If require any artwork produced shall be supplied in digital format to Homes NSW and shall remain the sole property of Homes NSW 		
	Material and/or Manufacture		
	Block plan shall be appropriate fade and weather resistant signage" in accordance with AS2419 – Section 11.5. Noting that laminated paper is not considered compliant with this standard.		
	Installation		
	 Install in location in accordance with AS2419 – Section 11.5 (c) Mechanically fixed with vandal resistant non corrosive screws 		
	Certification		
	As per Work Requirements		
Warranty	Life expectancy 5-8 years.		





2.5 Sprinklers

2.5.1 Internal Sprinkler Head

Component	SPRINKLERS
Sub-component	Internal Sprinkler head
Need	Replacement sprinkler head to match existing type characteristic
Requirement	General
Requirement	To current Australian Standards and all other associated standards Replacement sprinkler head to match existing type characteristic Vandal resistance Performance Compliant with the requirements of AS2118.1 Compliant with the requirements of AS4118.1.1 The follow specification shall be equal to current unit K factor RTI Temperature rating Spray pattern Orifice size Material and/or Manufacture Brass body and frame with the following surface finishes as applicable: Natural brass Chrome White Polyester Hardware (deemed included) Thread tape or soap & hemp thread sealant as appropriate to installation Installation Installation Installation Installation
	Installation standard AS2118.2 Certification
	Certification
	 As per Work Requirements System to refilled and deisolated in accordance with AS2118.1 requirements
Warranty	Minimum 1 year written warranty





2.5.2 Fire Sprinkler Electric Pressure Maintenance Pump

Component	SPRINKLERS		
Sub-component	Fire Sprinkler Electric Pressure Maintenance Pump		
Need	Replacement of Fire Sprinkler Electric Pressure Maintenance Pump		
Requirement	General To current Australian Standards Electric Fire Sprinkler Pressure Maintenance Pump Includes appropriately sized pressure accumulator Performance Compliant with the requirements of AS2941 Performance requirements in accordance with AS 2118.1 – Section 14.9 for AS 2118.1 sprinkler systems or AS 2941 Section 7 for residential type systems Material and/or Manufacture Water/dust ingress rating (IP) must be suitable for the installation environment Installation Installation Install in accordance with manufacturing instruction Wiring and circuit type to meet the requirements of AS3000 for fire pumps Certification As per Work Requirements Marking in accordance with AS2941 Section 6.10 System to be commissioned in accordance with AS2941 – Section 12		
Warranty	Minimum 1 year written warranty		





2.6 Drencher

Component	DRENCHER
Sub-component	Drencher head
Need	Replacement drencher head to match existing type characteristic
	 As per Work Requirements System to refilled and deisolated in accordance with AS2118.1:2017 requirements
Warranty	Minimum 1 year written warranty

2.7 Fire Doors





2.7.1 Single and double leaf fire doors

Component	FIRE DOORS
Sub-component	Single and double leaf fire doors
Need	Replacement of an existing fire door system
Requirement	General To current Australian Standards Includes both single leaf and double leaf hinges fire doors
	Performance /60/30 FRL AS1530.4:2014 - AS 1905.1:2015 including but not limited to: - Maximum opening force <110N
	Material and/or Manufacture Steel door frames • Minimum 18gauge hot dipped zinc coated steel doorframe with
	internal architrave Leaf
	Do not use imported rainforest timber veneers
	 Hardware (must be tested on specific door type) Door closer Passage set mortice lock and handle.
	 Dead lock Security viewer - Viewing greater than 160° Smoke seals (Tested in accordance with AS1530.7 and capable of limiting smoke to 200° Celsius for 30 minutes) Perimeter seal fitted to head and jamb to suit required gap specification
	Door hold open magnet Installation
	 Install in accordance with manufacturing instruction Frame shall be core filled as per requirements of AS1905.1:2015 – Section 5
	 Threshold shall meet the requirements of AS1905.1:2015 – Section 5.5.1, and if required the following treatments shall apply: Make good of floor finish to ensure gap is less than 10mm Threshold plate
	 Certification As per Work Requirements Tags permanent fixed to both frame and leaf including the following information: FRL Manufacture Date of installation (m/y)
	Fire door certificate as per AS1905.1 – Appendix C to be completed and submitted to Homes NSW including photographic evidence of installed system and tags
Warranty	Minimum 5 year written warranty - Door Minimum 2 year written warranty – Door seals





2.7.2 Solid Core door

Component	FIRE DOORS
Sub-component	Single and double leaf external solid core doors
Need	Replacement of an existing solid core door to SOU or other accessway
Requirement	General To current Australian Standards Includes both single leaf and double leaf hinges external solid core doors Includes all sizes Performance
	40mm thick flush type solid core particleboard or blockboard cored door (type B bonded ply-wood/-hardboard face)
	Material and/or Manufacture
	Steel door frames
	 Construction as per fire tested system Do not use imported rainforest timber veneers
	 Hardware (must be tested on specific door type) Door closer Passage set mortice lock and handle Dead lock Security viewer - Viewing greater than 160° Smoke seals (Tested in accordance with AS1530.7 and capable of limiting smoke to 200° Celsius for 30 minutes) Perimeter seal fitted to head and jamb to suit required gap specification
	Installation Install in accordance with manufacturing instruction
	 Certification As per Work Requirements Tags permanent fixed to both frame and leaf including the following information: FRL Manufacture Date of installation (m/y) Fire door certificate as per AS1905.1 – Appendix C to be completed and submitted to Homes NSW including photographic evidence of installed system and tags
Warranty	Minimum 5 year written warranty - Door Minimum 2 year written warranty – Door seals





2.7.3 Low moment door closer

Component	FIRE DOORS
Sub-component	Low moment door closer
Need	Replacement of an existing door closer requiring a low moment action to achieve door opening forces
Requirement	General
	To current Australian Standards"Low moment" cam action door closer
	Performance
	 Suits sizes 1 (20/750mm wide) to 7 (160kg/1600mm wide) in accordance with EN1154 Where installed on a fire rated door set closers shall be tested to achieve the required FRL on the applicable doorset in accordance with AS1530.4 and compliant with AS1905.1
	Material and/or Manufacture
	Water/dust ingress rating (IP) must be suitable for the installation environment
	Installation
	Install in accordance with manufacturing instruction
	Certification
	As per Work Requirements
Warranty	Minimum 2 year written warranty – Door Closer





2.7.4 Double Door Sequencer

Component	FIRE DOORS
Sub-component	Double Door Sequencer
Need	Replacement of an existing door double door sequencer
Requirement	General To current Australian Standards Controlling device for double doors with overlapping astragals/stiles to ensure inactive door closers first Performance Sized to suit required door width Where installed on a fire rated door set closers shall be compliant with the requirements of AS1905.1 Material and/or Manufacture Water/dust ingress rating (IP) must be suitable for the installation environment Installation Install in accordance with manufacturing instruction Certification As per Work Requirements
Warranty	Minimum 2 year written warranty – Sequencer





2.7.5 Privacy lever latch set

Component		FIRE DOORS
Sub-component		Privacy lever latch set
Need	Replacement of an existin secure fire doors	g privacy style lever/latch set for non-
Requirement	General To current Australian "Privacy Style" lever applications Performance Compliant with the re Where installed on a with the requirement Backset set and rose Installation	equirements of as 1428.1-2009 fire rated door set closers shall be compliant s of AS1905.1 e diameter to suit door leave thickness and type with manufacturing instruction





2.7.6 Intumescent fire and smoke seals

Component		FIRE DOORS
Sub-component		Intumescent fire and smoke seals
Need	Replacement of existing cor	mbined intumescent fire and smoke seals
Requirement	(single and double lear maximum permitted by Performance Test in accordance with the door set To suit gaps from a minof gap prior to seal beiles are to be provided suffer from any signific 95,000 open and closed Material and/or Manufacture Flexible PVC holder well seal colour shall be mind frame	If fire and smoke seal for retrofitting fire doors f) with gaps exceeding 3mm being the y AS1905.1 Ith AS1530.4 to achieve the required FRL for minimum of 2mm to a maximum of 6mm (size ing installed) and that demonstrate that the product does not eant wear and tear for up to and exceeding e cycles If ith intumescent infill atched to be closest to the colour of the door Contact surface must be clean, smooth and if ments
vvarranty	willimum z year willen warrar	ity – Ocai





2.7.7 Door bottom upgrade seal

Component		FIRE DOORS
Sub-component		Fire door bottom upgrade seal
Need	1 ·	b base of fire door where gaps are non-
Requirement	Compliant General To current Australian S Intumescent fire seal for leaf) with gaps at the the maximum permitted by Covers both seals to struct to 60mm Performance Test in accordance with the door set, including Seal model to be approved a Seal length to suit door permitted to be "butt jo" Tests are to be provided suffer from any significe 95,000 open and close Material and/or Manufacture Clear anodised alumin Installation	Standards or retrofitting fire doors (single and double breshold exceeding 10mm being the AS1905.1 uit gaps up to 20mm and seals to suit gaps of AS1530.4 to achieve the required FRL for both 35mm and 45mm doors opriate to required gap or leaf width, noting that multiple seals are not inted and the earlier of the earlier
Warranty	Minimum 2 year written warran	ty – Seal





2.7.8 Automatic door bottom smoke seal

Component		FIRE DOORS
Sub-component		Automatic door bottom smoke seal
Need	Replaced of automatic door smoke door	bottom smoke seal to base of fire or
Requirement	To current Australian S Automatic "drop down' doors (single and douk as per BCA requirement Performance Compliant with the requirement smoke sealing Tested in accordance rates for typical single Seal length to suit doo permitted to be "butt joe to be provide suffer from any signification suffer from any signification suffer and/or Manufacture Clear anodised aluminum stallation	Standards If smoke seal for retrofitting to fire or smoke only leaf) to achieve a "tight fitting smoke seal" ints uirements of BCA Specification C3.4 for with AS1530.7 to meet the smoke leakage and double leaf doors as detailed in AS6905 in leaf width, noting that multiple seals are not inted" ed that demonstrate that the product does not eant wear and tear for up to and exceeding e cycles
	As per Work Requirem	
Warranty	Minimum 2 year written warrar	nty – Seal





2.7.9 Door perimeter smoke seals





2.8 Passive Fire Protection Systems

2.8.1 Retrofit fire collars

Component	PASSIVE FIRE PROTECTION SYSTEMS
Sub-component	Retrofit fire collars
Need	Replacement of existing fire collar to plastic pipe or conduit.
Requirement	Replacement of existing fire collar to plastic pipe or conduit. General To current Australian Standards Intumescent fire stopping retrofit collar for plastic pipes, conduits and air-conditioning bundle penetrations Covers collar sizes from 32mm to 150mm Performance Required Fire Resistance Level to match of existing collar in accordance with AS1530.4 with reference to AS4072.1 Installed system must be compliant to BCA Clause C3.15(a) for the service type and size being protected. Where required for compliance with this clause, the service shall be wrapped with an appropriate or tested insulating wrapping Material and/or Manufacture Plastic or metal construction as appropriate to tested system Fixings must be suitable for the installation environment
	 Install in accordance with manufacturing instruction including required fixing detail appropriate to the installation substrate as per manufactures fire test approval Seal any resulting annual gaps between services and collar using applicable fire rated sealant for the collar type
	 As per Work Requirements Penetration sticker installed adjacent to the collar including following information: Installation Company Installer Date of installation (m/y) FRL ID number Report No. Certificate of compliance
Warranty	Minimum 2 year written warranty – Penetration seal system.





2.8.2 Fire Pillows

Component	PASSIVE FIRE PROTECTION SYSTEMS
Sub-component	Fire Pillow / cushion
Need	Sealing of penetrations in walls and ceilings
Requirement	To current Australian Standards Pillow or block style fire penetration barrier for temporary or permanent fire sealing of penetrations in wall or floor
	 Required Fire Resistance Level to match wall or floor specification in accordance with AS1530.4 with reference to AS4072.1 Installed system must be compliant to BCA Clause C3.15(a) for the service type and size being protected. Where required for compliance with this clause, the service shall be wrapped with an appropriate or tested insulating wrapping
	 Installation Install in accordance with manufacturing instruction including any additional requirements to suit the substrate as per manufactures fire test approval Seal any resulting annual gaps between services and the pillows, and the pillows themselves using applicable fire rated sealant for the pillow type Certification
	As per Work Requirements Penetration sticker installed adjacent to the penetration including following information: Installation Company Installer Date of installation (m/y) FRL ID number Report No. Certificate of compliance
Warranty	Minimum 7 year written warranty – Penetration seal system.





2.8.3 Fire rated mortar

Component	PASSIVE FIRE PROTECTION SYSTEMS
Sub-component	Fire rated mortar
Need	Infill of floor penetration with lightweight fire rated mortar.
Requirement	General To current Australian Standards Lightweight fire penetration mortar for fire sealing of penetrations in existing floors Performance Required Fire Resistance Level to match floor specification in accordance with AS1530.4 with reference to AS4072.1 Installed system must be compliant to BCA Clause C3.15(a) for the service type and size being protected. Where required for compliance with this clause, the service shall be wrapped with an appropriate or tested insulating wrapping Installation Install in accordance with manufacturing instruction including any additional requirements to suit the substrate as per manufactures fire test approva. Noting that fire rated mortars are not load bearing, appropriate provision must be made to prevent foot traffic or loading of all penetrations Certification As per Work Requirements Penetration sticker installed adjacent to the penetration including following information: Installer Date of installation Company Installer Date of installation (m/y) FRL ID number Report No. Certificate of compliance





2.8.4 Fire rated sealant

Component	PASSIVE FIRE PROTECTION SYSTEMS
Sub-component	Fire rated sealant
Need	Fire sealing of penetrations in walls or floors to suit penetration size and type.
Requirement	General
	 To current Australian Standards Mastic type fire sealant for sealing of penetrations in walls or floors to suit penetration size and type Covers both standard and high performance/pressure type sealants as appropriate to penetration type
	Performance
	 Required Fire Resistance Level to match floor or wall specification in accordance with AS1530.4 with reference to AS4072.1 Installed system must be compliant to BCA Clause C3.15(a) for the service type and size being protected. Where required for compliance with this clause, the service shall be wrapped with an appropriate or tested insulating wrapping
	Installation
	 Install in accordance with manufacturing instruction including any additional requirements to suit the substrate as per manufactures fire test approval Where possible sealant colour must be appropriately match to substrate colour
	Certification
	 As per Work Requirements Penetration sticker installed adjacent to the penetration including following information: Installation Company Installer Date of installation (m/y) FRL ID number Report No. Certificate of compliance
Warranty	Minimum 2 year written warranty – Penetration seal system.





2.8.5 Fire rated expansion foam

Component	PASSIVE FIRE PROTECTION SYSTEMS
Sub-component	Fire rated expanding foam
Need	Fire sealing of penetrations in walls or floors to suit penetration size and type.
Requirement	General
	 To current Australian Standards Fire rated expanding foam for sealing of penetrations in walls or floors to suit penetration size and type
	Performance
	 Required Fire Resistance Level to match floor or wall specification in accordance with AS1530.4 with reference to AS4072.1 Installed system must be compliant to BCA Clause C3.15(a) for the service type and size being protected. Where required for compliance with this clause, the service shall be wrapped with an appropriate or tested insulating wrapping. Note, fire rated expanding foams have very limited fire testing approvals with respect to penetration types and attention must be paid to ensure foam is only used to seal tested penetration types
	Installation
	 Install in accordance with manufacturing instruction including any additional requirements to suit the substrate as per manufactures fire test approval
	Certification
	As per Work Requirements. Penetration sticker installed adjacent to the penetration including following information: Installation Company Installer Date of installation (m/y) FRL ID number Report No. Certificate of compliance
Warranty	Minimum 2 year written warranty – Penetration seal system.





2.8.6 High Density mineral fibre batts

Component	PASSIVE FIRE PROTECTION SYSTEMS
Sub-component	High Density mineral fibre batts
Need	Sealing of penetrations in walls and ceilings.
Requirement	To current Australian Standards High density mineral fibre batt as a penetration barrier for temporary or permanent fire sealing of penetrations in wall or floor
	 Required Fire Resistance Level to match wall or floor specification in accordance with AS1530.4 with reference to AS4072.1 Installed system must be compliant to BCA Clause C3.15(a) for the service type and size being protected. Where required for compliance with this clause, the service shall be wrapped with an appropriate or tested insulating wrapping
	 Install in accordance with manufacturing instruction including any additional requirements to suit the substrate as per manufactures fire test approval Seal any resulting annual gaps between services and the batt, and the batts themselves using applicable fire rated sealant for the pillow type
	As per Work Requirements Penetration sticker installed adjacent to the penetration including following information:
Warranty	Minimum 1 year written warranty – Penetration seal system.





2.9 Door hold open device

Component	DOOR HOLD OPEN DEVICE
Sub-component	Electromagnetic door hold open device
Need	Replacement of existing electromagnetic hold open device
Requirement	General To current Australian Standards
	Electromagnetic hold open device and associated smoke detector to serve fire or smoke door in accordance with BCA Clause C3.5
	Performance
	 Holding force equal or greater than original unit 24Vdc or 240Vac as applicable, ensuring current draw is suitable for panel or supply device
	 Smoke detector shall meet the requirements applicable technical specification including AS1670.1
	Material and/or Manufacture
	 Steel or plastic body Water/dust ingress rating (IP) must be suitable for the installation environment
	Fixings must be suitable for the installation environment
	Installation
	Install in accordance with manufacturing instruction including required fixing detail appropriate to the installation substrate
	Certification
	 As per Work Requirements Baseline data/modification to Homes NSW inventory records including modification to AS1670.1 – Section A.4 Functional check to be conducted in accordance with AS1670.1 – Section A.3
Warranty	Minimum 1 year written warranty





2.10 Signage

2.10.1 Fire door signage

Component	SIGNAGE
Sub-component	Signage for fire door
Need	Replacement of existing fire door signage as required by BCA
Requirement	General To current Australian Standards Fire Door Signage as required by BCA Clause D2.23 Performance Meets the requirement of BCA Clause D2.23, including:
Warranty	Minimum N/A year written warranty – Sign





2.10.2 Evacuation Signage

Component	SIGNAGE
Sub-component	Occupant Evacuation Signage
Need	Replacement of existing occupant evacuation signage
Requirement	General To current Australian Standards Occupant evacuation signage for installation on the inside of the SOU entry door or in common areas as applicable Performance Shall meet the requirements of the Homes NSW Fire Safety Manual and shall include at a minimum the following information: R.A.C.E acronym and pictorial representation Evacuation procedure In an emergency dial 000 Block plan showing location of assembly area Material and/or Manufacture Construction as suitable to application: Vinyl sticker PVC plastic Colourbond metal Where vinyl or PVC are used in common areas they shall be provided with a minimum 2mm sheet of Perspex Fixings must be suitable for the installation environment PVC plastic and metal signs mechanically fixed with vandal resistant non corrosive screws Installation Permanent fixing detail appropriate to the installation substrate Certification As per Work Requirements
Warranty	Minimum N/A year written warranty – Sign





2.10.3 Fire Hose Reel & Extinguisher Signage

Component		SIGNAGE
Sub-component	Fire hose reel & Extinguis	sher signage
Need	Replacement of existing Fire hose reel & Extinguisher si	gnage
Requirement	General To current Australian Standards Fire hose reel & Extinguisher signage required by relestandards Performance Identification signage for Fire Hose Reel systems – In with AS2441 – Section 10.4 Identification signage for Portable extinguisher system accordance with AS2444 – Section 10.4 Material and/or Manufacture Height and location of signage in accordance with appartment of the standard Construction as suitable to application: PVC plastic Colourbond metal Fixings must be suitable for the installation environme PVC plastic and metal signs mechanically fixed with versistant non corrosive screws Installation Permanent fixing detail appropriate to the installation of	accordance ns – In plicable ent randal
Warranty	Minimum N/A year written warranty – Sign	





2.11 Dampers

2.11.1 Intumescent fire dampers

Component	DAMPERS
Sub-component	Intumescent fire dampers
Need	To prevent transmission of smoke and fire across fire compartments
Requirement	Performance Required Fire Resistance Level to match existing fire damper and substrate in accordance with AS1530.4 System shall meet the requirements of AS1682.1 Material and/or Manufacture Galvanised steel construction suitable for internal or external applications Fixings must be suitable for the installation environment Installation Installation accordance with manufacturing instruction and AS1530.4 requirements including required fixing detail appropriate to the installation substrate Installation standard AS1682.1 — Section 3.2.2.2 including but not limited to: Breakaway joints (if required) Fixing angles Certification As per Work Requirements
	 As per Work Requirements Permanent label shall be installed adjacent to the damper in according with AS1682.1 Section 1.7 and including following information: Manufacture's name or trademark Model number including FRL. Orientation (vertical, horizontal or both) Direction of airflow Installer Certificate of compliance
Warranty	Minimum 1 year written warranty – Damper





2.11.2 Mechanical fire dampers

Component	DAMPERS
Sub-component	Mechanical fire dampers
Need	To prevent transmission of smoke and fire across fire compartments
Requirement	General To current Australian Standards Wall, floor or shaft mounted mechanical fire damper Curtain or blade type as per required application Performance Required Fire Resistance Level to match existing fire damper and substrate in accordance with AS1530.4 System shall meet the requirements of AS1682.1 Material and/or Manufacture Galvanised steel construction suitable for internal or external applications Fixings must be suitable for the installation environment
	 Install in accordance with manufacturing instruction and AS1530.4 requirements including required fixing detail and expansion tolerances appropriate to the installation substrate Installation standard AS1682.1 – Section 3.2.2.2 including but not limited to: Breakaway joints (if required). Fixing angles.
	Certification
	 As per Work Requirements Permanent label shall be installed adjacent to the damper in according with AS1682.1 Section 1.7 and including following information: Manufacture's name or trademark Model number including FRL. Orientation (vertical, horizontal or both) Direction of airflow Installer Certificate of compliance
 Warranty	Minimum 2 year written warranty – Damper





2.11.3 Ceiling Fire Damper Enclosure

Component	DAMPERS
Sub-component	Ceiling Fire Damper Enclosure
Need	Protection of exhaust fan/grill in FR ceiling.
Requirement	General
Requirement	To current Australian Standards Ceiling fire damper enclosure to allow air movement through fire rated ceilings Plenum type (open grill) or Spigot type (duct connect) as applicable to application Performance Required Fire Resistance Level to match the ceiling including incipient rating in accordance with AS1530.4 Material and/or Manufacture Fixings must be suitable for the installation environment Spigot connection (if require) to match exhaust duct diameter Installation Install in accordance with manufacturing instruction and AS1530.4 requirements including required fixing detail and four sided framing appropriate to the ceiling construction Certification As per Work Requirements Permanent label shall be installed adjacent to the damper in according with AS1682.1 Section 1.7 and including following information:
Warranty	Minimum 2 year written warranty – Damper





2.12 Fire Blanket

Component	FIRE BLANKET
Sub-component	Fire Blanket
Need	Remove and replacement with new fire blanket
Requirement	 General To current Australian Standards Fit only where directed by Principal Fixed permanently into the common area room kitchen wall only Fire blanket with dimensions 1.2m x 1.8m
	Performance
	Complies with AS/NZS 3504Location in accordance with AS2444
	Material and/or Manufacture
	 Container – Signal red in colour Fixings must be suitable for the installation environment Signage shall be in accordance with technical specification for signage and the requirements of AS2444 – Section 6.4.4
	Installation
	 Installed in accordance with manufacturing instruction and in accordance with AS2444 – Section 6 Signage shall be installed in accordance with AS2444 – Section 6.4.2, including: Not below 2000mm from FFL Certification
	As per Work Requirements
Warranty	Minimum 5 year written warranty





2.13 Fire Indicator Panel

2.13.1 FIP replacement components

Component		FIRE INDICATOR PANEL
Sub-component		FIP replacement components
Need	Replacement of co	omponents in existing FIP system
Requirement	Covers the r Indicator Pal	Australian Standards replacement of the following items on an existing Fire nel: dal resistant panel door ver supply gle and double loop cards of screen eventional zone card Control interface module
	Indicator Par Power supplement panel and de Material and/or Mar Panel door Stee	ly, must be of appropriate voltage and current to match evice requirements
	Installation Install in acc	cordance with manufacturing instruction
	Certification	ordanes with manadating metastion
	As per Work	x Requirements
Warranty	Minimum 1 year writ	ten warranty – System





2.13.2 Occupant warning amplifier

Component	FIRE INDICATOR PANEL
Sub-component	Occupant warning amplifier
Need	Replacement of existing occupant warning amplifier
Requirement	Replacement of existing occupant warning amplifier General To current Australian Standards Covers occupant warning amplifiers from 25w to 150w Performance Amplifier must be of appropriate voltage and current to match panel and device requirements Material and/or Manufacture Where required module to be installed in appropriate 19 inch rack mount to suit panel enclosure Installation Install in accordance with manufacturing instruction Certification As per Work Requirements
Warranty	Minimum 1 year written warranty – System





2.13.3 FIP / EWIS Battery

Component	FIRE INDICATOR PANEL
	FIP/EWIS batteries
Need	Replacement of existing batteries in FIP or EWIS panel
Requirement	General
	 To current Australian Standards 12v valve regulated lead acid battery Covers amp hour rating from 15 to 130Ah
	Performance
	Must comply with the requirements of AS4029.2
	Material and/or Manufacture
	 Body made of ABS Battery terminals to be appropriate to panel type: Male spade connections Female threaded terminals
	Installation
	Install in accordance with manufacturing instruction
	Certification
	As per Work Requirements
Warranty	Minimum 1 year written warranty





2.13.4 Flow switch sensor system

Component	FIRE INDICATOR PANEL
Sub-component	Flow switch system
Need	Replacement of existing Flow switch sensor system where solenoid is damaged
Requirement	General
	 To current Australian Standards Waterflow alarm switch for sprinkler system Covers all sizes of pipe
	Performance
	 Must comply with the performance requirements of AS2118.1 Relay contact rating and configuration to match existing unit
	Material and/or Manufacture
	 Body made of valve set to be brass or galvanised steel External relay/termination casing to be red ABS or similar plastic housing with an IP rating suitable for the required installation environment
	Installation
	Install in accordance with manufacturing instruction
	Certification
	As per Work Requirements
Warranty	Minimum 2 year written warranty – System





2.13.5 Occupant warning speakers

Component		FIRE INDICATOR PANEL
Sub-component		Occupant Warning Speakers
Need	Speaker system to provide occupant w	varning system notification
Requirement	General To current Australian Standards Occupant warning sounder, covering Surface mount Flush mount Surface mount horn speak Performance Compliant with the requirements of 24Vdc ensuring current draw is suit Material and/or Manufacture Polycarbonate body Water/dust ingress rating (IP) must environment Fixings must be suitable for the inse Wire guard/cage shall be either Mild steel with corrosion reginternal) Stainless steel (external) Installation Install in accordance with manufaction As per Work Requirements Baseline data/modification to Home	ng the following types: der If AS1670.4 itable for panel or supply device It be suitable for the installation istallation environment esistant polyester coating ituring instruction es NSW inventory records
	 Baseline data/modification to Homincluding modification to AS1670.1 Functional check to be conducted Section A.3 	- Section A.4
Warranty	Minimum 2 year written warranty – detecto	r





2.13.6 ELV Red twin cable

Component	FIRE INDICATOR PANEL			
Sub-component	Red twin			
Need	Speaker system to provide occupant warning system notification			
Requirement	General To current Australian Standards Red twin "TPS" extra low voltage cabling to suit fire systems applications Performance Compliant with the requirements of AS1670.1 Cable size or gauge to be sufficient suit application Where utilised for addressable fire panels, detectors and devices cabling shall be twisted pair type Mechanical protection WSX1 Material and/or Manufacture PVC best practise certified Installation Where required installation shall be to WS 51W specification on fire rated support specification			
	Certification			
	As per Work Requirements.			
Warranty	Minimum 2 year written warranty			

2.14 Visual Alarm Device (VAD)





Component	VISUAL ALARM DEVICE (VAD)
Sub-component	Warning lights
Need	Remove existing fire warning strobe light and replace with new visual alarm device (VAD) to common area
Requirement	alarm device (VAD) to common area
Warranty	Minimum 1 year written warranty

2.15 Detectors/alarms





2.15.1 Smoke detector

Component	Detector / Alarms
Sub-component	Smoke detector
Need	Replace with new interconnected photoelectric detector
Requirement	General To current Australian Standards Photoelectric type smoke detector with matching base and wire guard Includes wire guard where required Performance Compliant with the requirements of AS7240.7 and AS1670.1 24Vdc ensuring current draw is suitable for panel or supply device Conventional or analogue addressable to match existing unit Sensitivity (Obscuration) to match existing unit Material and/or Manufacture Polycarbonate body Water/dust ingress rating (IP) must be suitable for the installation environment Wire guard/cage shall be either Mild steel with corrosion resistant polyester coating (internal) Stainless steel (external) Installation Installation As per Work Requirements Baseline data/modification to Homes NSW inventory records including modification to AS1670.1 – Section A.4 Functional check to be conducted in accordance with AS1670.1 – Section A.3
Warranty	Minimum 5 year written warranty – detector





2.15.2 Smoke alarm

Component	Detector / Alarms		
Sub-component	Smoke alarm		
Need	Replace with new interconnected photoelectric smoke alarm		
Requirement	General		
	 To current Australian Standards Photoelectric type smoke alarm Product listed in CSIRO's Activfire Register of Fire Protection Equipment Surface mounted (not recessed) Inter-linkable features Branded with manufacturers trademark to AS3786Includes hardwired and wireless interconnection alarms Includes wire guard where required Performance		
	 Compliant with the requirements of AS3786 Where multiple smoke alarms exist, they should be interconnected as per BCA Specification E2.2a or BCA 3.7.5.2 requirements Dual supply including 240Vac hardwired to mains power with fixed rechargeable (Lithium) battery backup (10 years battery life expectancy) – with minimum 2 months battery standby Where wireless interconnection is used it shall be of a type approved by a Codemark or other BCA recognised accreditation body and compliant with AS/NZS 4268:2012 		
	Material and/or Manufacture		
	 Polycarbonate body Water/dust ingress rating (IP) must be suitable for the installation environment Fixings must be suitable for the installation environment Wire guard/cage shall be either Mild steel with corrosion resistant polyester coating (internal) Stainless steel (external) 		
	Installation Install in accordance with manufacturing instruction including required fixing detail appropriate to the installation substrate		
	Certification		
	As per Work Requirements		
Warranty	Minimum 10 year written warranty – Alarm		





2.15.3 Heat alarm

Component	Detector / Alarms
Sub-component	Heat alarm
Need	Replace with new interconnected heat alarm
Requirement	General
Requirement	To current Australian Standards Heat alarm Includes wire guard where required Performance Compliant with the requirements of AS1603.3 Where multiple smoke or heat alarms exist, they should be interconnected as per BCA Specification E2.2a or BCA 3.7.5.2 requirements Dual supply including 240Vac hardwired to mains power and battery backup Material and/or Manufacture Polycarbonate body Water/dust ingress rating (IP) must be suitable for the installation environment Fixings must be suitable for the installation environment Wire guard/cage shall be either Mild steel with corrosion resistant polyester coating (internal) Stainless steel (external) Installation Install in accordance with manufacturing instruction including required fixing detail appropriate to the installation substrate
	As per Work Requirements
Warranty	Minimum 5 year written warranty Alarm





2.15.4 Vibrating and visual alarm device

Component		Detector / Alarms
Sub-component		Vibrating and visual alarm device
Need	Smoke alarm notification f	for occupants with hearing impairment
Requirement	Concerniant Vibrating and visual impairment Covers both hardwire Compliant with the re Dual supply including battery backup Where wireless inter approved by a Code body and compliant with the relation of the control of t	n Standards alarm device to alarm occupants with hearing e and wireless units equirements of AS1603.17 g 240Vac hardwired to mains power and connection is used it shall be of a type mark or other BCA recognised accreditation with AS/NZS 4268:2012 re ating (IP) must be suitable for the installation e with manufacturing instruction
Warranty	Minimum 1 year written warr	anty – Alarm





2.15.5 Hush button

Component	Detector / Alarms
Sub-component	"hush button"
Need	Hush button to temporarily delay SOU smoke alarm.
Requirement	Hush button to temporarily delay SOU smoke alarm. General To current Australian Standards Hush button to temporarily delay ("Silence") SOU smoke alarm. Includes all cabling and cable ducting required for installation Performance Activation of the "hush" button shall temporarily desensitise the alarm unit for a period of approximately 5 min to allow an occupant to clear smoke in the event of a nuisance event Material and/or Manufacture Polycarbonate body Water/dust ingress rating (IP) must be suitable for the installation environment Fixings must be suitable for the installation environment Installation Install in accordance with manufacturing instruction including required fixing detail appropriate to the installation substrate
	Certification
	As per Work Requirements
Warranty	Minimum 5 year written warranty





2.15.6 Heat detector

Component	Detector / Alarms
Sub-component	Heat detector
Need	Replace with new heat detector to suit kitchen or other applicable area
Requirement	To current Australian Standards Heat detector with matching base and wire guard. Includes wire guard where required Performance Compliant with the requirements of AS7240.5 and AS1670.1 24Vdc ensuring current draw is suitable for panel or supply device Conventional or analogue addressable to match existing unit Activation temperature and activation rise in rate (if applicable) to match existing unit Material and/or Manufacture Polycarbonate body Water/dust ingress rating (IP) must be suitable for the installation environment Fixings must be suitable for the installation environment Wire guard/cage shall be either
Warranty	Minimum 5 year written warranty – detector

END OF COMPONENT REQUIREMENTS - PART 2





PART 3 – ITEMS FOR REFERENCE SPECIFICATION FOR NEW CONSTRUCTION AND SPECIAL PROJECTS

3.1 External

3.1.1 Fencing and Gates

Component			FENCING AND (GATES
Sub-component			Fences a	and Gates
Need Requirement	To demarcate and secure the properties boundaries. Fences and gate must be suitable to maintain privacy, be a safe area for children, and confine domestic animals To current Australian Standards		-	
	 Front fe Cut off Side ar Gates fe Decorative Steel of finish of the finish of t	encing 900r fencing 120 nd Rear fen to match fer e fencing or Aluminiun only, NO Sp um 16mm x ninimum 39 round minimum 50 er Coating to	et local Government regulations mm to 1200mm 00 to 1800mm cing 1800mm nce cladding and height where specified n Tubular non climbable panels - flat or loc ears or protruding rods 0.9mm tubes - spacings approx 100mm co x 25 x 1.2mm rectangular tubing or minim 0 x 50mm - 450mm round minimum 1.2mm o AS4506 e to AS1926.1 for gates, hinges and locks	entres um





	Continues		
	Metal fencing		
	 Steel pre-rolled sheet – double sided pre painted bonded finish complying with AS/NZS2728: Type 3, testing compliance to meet performance requirements within an exposed environment for humidity, scratch resistance, impact, adhesion, cracking and corrosion Fence panel made from zinc aluminium alloy coated steel complying with AS1397, G550 (550MPa minimum yield stress), AZ150 (150g/m2 minimum coating mass) The fence panel base material thickness is 0.35mm Posts and rails made from zinc alloy coated steel complying with AS1397, G500 (500MPa minimum yield stress), Z275 (275g/m2 minimum coating mass) Posts - Standard Channel posts 84 x 43mm, Square Corner, junction and single gate posts 60 x 60 x 1.6, Double gate posts 65 x 65 x 2.5 installed with caps Rails 60 x 53 with base metal thickness of 0.8mm Installation to manufacturers specification 		
	 End Post/ Gate Post/ Corner Post either Hardwood/ Treated Pine 125x125mm or Galvanised steel 75 x 75 x 2.5mm Intermediate posts either Hardwood 125 x 50 mm or Treated Pine 125 x 75mm Rails Hardwood/ Treated Pine 75 x 50 mm Palings Hardwood/ Treated Pine 100 x 15 either lap palings by 15 mm or close butted. All timber measurements ± 2mm 		
Warranty	Minimum 3 years written warranty - decorative fencing Minimum 10 years written warranty - metal fencing		





3.1.2 Street Furniture

Component			STREET FURNITURE	
Sub-component			Tables and Seats	
Need	Present an	Present an aesthetic image whilst meeting the needs of the tenants		
Requirement	 Vandal proof and durable street furniture and tables for common areas 98% recycled wood/plastic composite seat and table top slats, independently tested not to crack, splinter, rot, rust or warp CCA and Toxin free UV stabilised and Non permeable Fixed with vandal proof galvanised or stainless steel fixings Frame galvanised steel or other vandal proof material 		d/plastic composite seat and table top slats, ed not to crack, splinter, rot, rust or warp se Non permeable proof galvanised or stainless steel fixings	
Warranty	Minimum 1	year writter	n warranty	

3.2 Roofing

3.2.1 Roof Covering

Component		ROOF		
Sub-component	•	Roof Covering		
Need	To effectively weatherproof the dwelling, shed water, be durable and robust			
Requirement	 Installation to curr specification Metal Roof Sheeting Manufactured des and to manufacture Zincalume or equi bonded finish Minimum base me straight roof lines) Product is to be le the manufacturer and date of manufacture 	gibly and durably marked on reverse surface with name and/or trademark, unique traceable identifier		
Warranty	· ·	en warranty - Roof tiles en warranty - Metal roof sheet		





3.2.2 Sarking Vapour Barriers

Component	ROOF
Sub-component	Sarking/Vapour Barrier
Need	To provide vapour barrier to roofs and external walls, to assist in thermal insulation and to eliminate moisture and condensation in buildings
Requirement	Manufactured in accordance with AS4200.1 and installed to AS4200.2 Provides required Thermal Performance in accordance with AS/NZS4859 and ICANZ Vapour Barrier - rated Medium to High (<2 ng/Ns) Water Barrier - rated high AS4200 or better than 0.5 MNs/g Tiled Roofs Low flammability and Heat Factor of 5 or less AS1530.2 High Tensile Strength greater than 18 kN/M in both directions UL2218 (impact resistance) pass Metal Sheet Roofs When bulk insulation is laminated directly to sarking membrane the composite product must achieve a fire hazard rating (AS/NZS1530.3) of Ignitability Index 0 Spread of Flame 0 Heat Evolved 0 Smoke Developed 0-1 Tensile strength > 12kN/M in both directions Notes Foil Laminates and Bubble Foil cannot be laid on top of the ceiling to cover ceiling joists, rafters and any services. Can only be installed as sarking on top of the roof trusses underneath the roofing Sarking is installed in the roof with roofing wire underneath to ensure that sarking remains in place
	Check appropriate separation is maintained between electrical services and installed Foil Laminates and Bubble Foil Sarking in roofs and external walls
Warranty	Minimum 7 year written warranty





3.3 Internal Linings

3.3.1 Plasterboard

Component	INTERNAL LININGS			
Sub-component	Plasterboar			
Need	Internal wall and ceiling lining board that is resistant to impact and moisture and where required achieve a fire rating			
Requirement	Internal Lining To Australian Stare Minimum13mm thi Paper weight ≥ 22 Density ≥ 1000kg/ Tested to NCC red Lightweight Constate Resistance to imparate to index Achieve 2 hour fire 100% recyclable Internal Lining (Insulation) Internal Lining to A Minimum 10mm P Insulation backing insulation — minim 90mm (R4.1 Insulation) Fibre free insulation Group 1 Fire Class Code mark certified Resistant to water Zero Ozone Deplet Fire rated plasterboard To current Australian Resistance to incip minutes and enable	adards and installed to manufacturers specification lock sheeting for walls 0 gsm m³ quirements 'Specification C1.8 Structural Tests for ruction' and to achieve the following results: act NCC test method 5(c) of ≤150mm entation NCC test method 5(d) of ≤ 4.8mm erating where required AS/NZS2588 and specification above laster board to comply with AS/NZS4859.1 – rigid thermoset um product thickness 35mm (R1.3 Insulation) to action) on core sification when tested in accordance with AS5637.1 and a vapour IS EN 12086 enton – CFC/HCFC free Ard – Ceilings Tanana Standards Dient spread of fire for a minimum FRL of 60 es the ceiling to achieve an FRL of 60/60/60		
Warranty	Minimum 10 year writte	en warranty		





3.4 Master Antenna Television (MATV)

3.4.1 Master Antenna Television System

Component	MASTER ANTENNA TELEVISION SYSTEM
Sub-component	Antenna
Need	To provide good quality reception of digital signals
Requirement	 To current Australian Standards Standards Mark / Certified Digital Ready Achieve the following minimum readings at the antenna when installed as part of a MATV system of: Signal level of between 50db to 80db Modulated Error Ratio (MER) of 25db or higher Post Viterbi Bit Error Rate (post Viterbi BER) of less than or equal to 2X10-4 Noise Margin (NM) of greater than 0dB 2 kg loading on boom end (furthest from mount (tested over 100 cycles) Clam shell insulators and flat sided boom to provide element alignment 12mm extruded aluminium elements to withstand weather and wildlife Tested to wind speed of 100 km/hr 1 kg loading at unsupported end of any element (tested over 100 cycles) UV and corrosion resistant tested in coastal area and western NSW 'F' Type connectors Able to easily connect Quad Shielded cable and/or Mast head amplifier
Warranty	Minimum 2 year written warranty

Component		MASTER ANTENNA TELEVISION SYSTEM
Sub-component	Masts, Stays, Booms	
Need	To sec	cure the antenna safely and securely to the Building
Requirement	• To A Se G G G B au	o current Australian Standards Il fixings for galvanised steel must be of a similar material or eparated to prevent galvanic reaction or corrosion calvanised steel - galvanising Z275 to at least 19 microns of alvanising (zinc) on these items ooms should be powder-coated with polyester through an automated electrostatic multistage pre-treatment process amples tested and verified by an 800 hour neutral salt spray test ble to withstand wind of 100km/hr
Warranty	Minim	um 2 year written warranty





Component		MASTER ANTENNA TELEVISION SYSTEM
Sub-component		Amplifier
Need		nable tenants to receive television signals of adequate quality and ngth inside their homes
Requirement	Amp	thead Amplifiers, Channelised Diffiers, Wide Band Amplifiers To current Australian Standards Standards Mark / Certified Digital Ready Achieve the following minimum readings after the amplifier when installed as part of a digital ready MATV system of: Signal level of between 50db to 80db Modulated Error Ratio (MER) of 25db or higher Post Viterbi Bit Error Rate (post Viterbi BER) of less than or equal to 2X10-4 Noise Margin (NM) of greater than 0dB UV stable, weatherproof housing capable of mast attachment or surface mount Adjustable gain for VHF and UHF bands Built in lightning / static protection
Warranty	Mini	mum 2 year written warranty





Component		MASTER ANTENNA TELEVISION SYSTEM	
Sub-component		Cable	
Need	To enable tenants to receive television signals of adequate quality and strength inside their homes		
Requirement	Flexible cables RG6 and RG11 shall have a continuous dielectric centre conductor is in full contact with the dielectric along the entit the coaxial cable RG 11 Low Loss Quad Shield Cable 1.63mm/14 AWG solid copper covered steel conductor Enclosed in polyethylene insulation 2 layers of Foil tape 60% Aluminium braid and 40% Aluminium braid Black PVC outer casing DC requirements – current carrying capacity 5A for RG11		
	 1.02ml Enclos 2 layer 60% A Black I DC red All cab type co Use Ro 	am/18 AWG solid copper covered steel conductor seed in polyethylene insulation rs of Foil tape Aluminium braid PVC outer casing quirements – current carrying capacity 3A for RG6 pole connections to be crimped or compression with appropriate F connectors and George for runs of less than 50m and RG11 quad core for more than 50m and for backbone cabling	
Warranty	Minimum 2	2 year written warranty	





3.5 Tiling and Waterproofing

3.5.1 Wall Tiles

Component		WALLS
Sub-component		Wall Tiles
Need	To provide water/cond	a hard wearing, cleanable and hygienic surface impervious to ensation
Requirement	 Production Vitrifie Tile Them Full glain Cerameter Surfaction Extrudeter Silicon 	Quality to ISO13006 cts in compliance to AS4586 d or Porcelain nickness ≥ minimum 5.5mm aze over face ceramic tile nic biscuit (Bisque) must be engobed se Hardness min MOHS minimum 3 - Test Method EN101 led PVC or Aluminium tile trims on exposed edges a seal to cupboard boundaries les to extend to floor behind upright stoves
Warranty	Minimum 1	0-year written warranty





3.5.2 Floor Tiles

Component		FLOOR FINISHES	
Sub-component		Floor Tiles	
Need	To provide safe, healthy, hard wearing, waterproof and cleanable surface		
Requirement	 Produ Vitrifie Coloui Warpa Surfac Water Chem Slip ra areas Slip ra areas Tile th Extruct Entrance Ungla Comp Used proof Install 	Quality to ISO13006 cts in compliance to AS4586 d or Porcelain rs as appropriate and directed age not exceeding 0.5mm for any tile batch see Hardness to MOHS minimum 6 - Test Method I.S. EN15771 absorption to ISO10545-3 ical resistance to ISO10545-13 iting of R11 and Pendulum test score of 'W' or 'P4' for external areas iting of R10 and Pendulum test score of 'X' or 'P3' for internal wet and internal common areas iting of R9 and Pendulum test score of 'Z' or 'P2' for all other areas ickness ≥ 7.0mm led PVC or Aluminium tile trims on exposed edges ✓ Exits outdoor terraces and verandas zed quarry tiles and quarry nosing tiles to be first quality ly with the requirements of ISO10545 only at external locations and external doorways above the damp course ed with an appropriate waterproof membrane	
Warranty	Minimum 1	0 year written warranty	





3.5.3 Waterproofing

Component		WATERPROOFING	
Sub-component	t Internal Floors ar		
Need	Prevent wa	ter penetration into walls and through floors	
Requirement	Tile Junct	with AS3740 Waterproofing of domestic wet areas	
	extens • Water • Leak (oly to AS/NZS4858 Wet Area membrane Class III for high sibility r based (no solvent release) Control Flanges to wastes where required	
Warranty	Minimum 1	0 year written warranty	

Component			WATERPROOFING
Sub-component			External Floors and Planter Boxes
Need	To make external dwelling wet areas (balconies, terraces, decking and planter boxes) impervious to water		
Requirement	Waterproofing membrane must be applied in accordance with current Australian Standards Satisfies tests to class III High Extensibility AS/NZS4858 Installed to manufacturer's specification Provide certificate of installation Leak Control flanges to wastes where required		
Warranty	Minimum 1	0 year writte	en warranty





3.6 Paint

3.6.1 Exterior Paint

Component		FINISHES
Sub-component		Exterior Paint
Need	To protect external cladding and structure from weather and abrasion	
Requirement	Exterior Pain	
Warranty	Minimum 1	0 year written warranty





3.6.2 Interior Paint

Component		FINISHES	
Sub-component	•	Internal Paint	
Need	To provide a surface finish that protects the substrate, is cleanable, durable and attractive		
Requirement	 100% premium Acrylic (Waterborne) paint or Alkyd base Solventborne or Polyurethane paint Workmanship to current Australian Standards Colours to approved samples to current Australian Standards Paints conforming to appropriate APAS (Australian Paint Approval Scheme) paint specification number as per APAS Paint Specification Paint in sealed containers branded with the manufacturers name, type of content and APAS approval number Comply to APAS specification 0215 for low VOC Interior paints Tinted and untinted undercoats, enamels and topcoats to achieve low surface emitting product complying with APAS for VOC emissions Tinting Pigments, tints and stains as recommended by the paint manufacturer 		
Warranty	Minimum 10 year writt	en warranty	





3.7 Services

3.7.1 Commercial Water Heaters

Component		WATER HEATERS COMMERCIAL	
Sub-component		Commercial Electric Water Heaters	
Need	To reliably provide hot water to multiple dwellings		
Requirement	 To cui Stand Appro Extra Stainle Press Dual r Adjust Autom Provic Durab Comm 	 To reliably provide hot water to multiple dwellings Installed to match performance of existing To current Australian Standards Standards Mark / Water Mark / Water Authority Certificate of Approval Extra Long Life tank (tank life more than 10 years – High grade Stainless Steel or similar durable material Pressurised tank Dual handed connections Adjustable thermostat Automatic Over Temperature Safety Cut off Provide rust free water Durable pre-painted steel casing Commercial mains pressure storage 	
Warranty	Minimum 10 year written warranty (Cylinder)		

Component		WATER HEATERS COMMERCIAL	
Sub-component		Commercial Solar Water Heaters	
Need	To reliably	To reliably provide hot water to multiple dwellings	
Requirement	 To cui Stand Appro Install writter solar Natura Frost Solar Extra Stainle Press Dual h Adjust Autom Provic Durab 	rent Australian Standards ards Mark / Water Mark / Water Authority Certificate of val ation to current Australian Standards and to manufacturers a specification. Including manufacturers recommended valves, control units, sensors and circulating pump al gas or electricity boosted protected appropriate to climate zone Panels (hail resistant) appropriate to zone area and size of tank Long life tank (Tank life more than 10 years – High grade ess steel or similar durable material) urized tank (either On Ground or Close Coupled) handed connections table Thermostat hatic Over Temperature Safety Cut Off de rust free water ele pre-painted steel casing hercial mains pressure storage Continues	





	Continues Storage	
	 Mains Pressure, Floor or Close Coupled Model (Indoor / Outdoor) (250L to 600L) 	
Warranty	Minimum 10 year written warranty (Cylinder) and Panels	

Component		WATER HEATERS COMMERCIAL	
Sub-component		Commercial Gas Water Heaters	
Need	To reliably provide hot water to multiple dwellings		
Requirement	 To current Austra Standards Mark / Approval AGA Approval Minimum 5 star e If internal in a plan with minimum 0.5 Extra Long life tar Stainless steel or Pressurized tank Dual handed cont Adjustable Therm Automatic Over T Provide rust free Durable pre-paint Commercial main 	water Mark / Water Authority Certificate of nergy rating nt room – all gas heaters must be flued to outside mm gauge galvanised steel flue nk (Tank life more than 10 years – High grade similar durable material) (either On Ground or Close Coupled) nections ostat emperature Safety Cut Off water	
Warranty	Minimum 10 year writt	en warranty (Cylinder)	

END OF COMPONENT REQUIREMENTS - PART 3





HOMES NSW

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