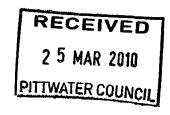


22 March 2010

The General Manager
Pittwater Council Council
PO Box 882
Mona Vale NSW 1660



Dear Sir or Madam

PROPERTY ADDRESS LOT 33, DP 1135383, NO 1 FAZZOLARI AVENUE, MONA VALE DEVELOPMENT APPLICATION NO N0559/09 CONSTRUCTION CERTIFICATE NO CC N101284

City Plan Services Pty Ltd has issued a Construction Certificate under Part 4A of the Environmental Planning and Assessment Act 1979 for the above premises

Please find enclosed the following documentation

- Construction Certificate No CC N101284
- Documentation used to determine the application for the Construction Certificate as detailed in the listed Schedules of the certificate
- · Approved plans and specifications
- Copy of application (with appointment of PCA from Owner OR PCA Appointment Form)
- Copy of Long Service Levy if applicable
- · Home Owners' Warranty, if applicable
- \$30 cheque for Council's registration fee

Our client has been advised of the necessity to submit to Council the notice of commencement of building works 48 hours prior to the commencement of works

Should you need to discuss any issues, please do not hesitate to contact the Project Manager, Ashleigh Hayes on the contact details listed

Yours faithfully

William Nettleton Director

encl

830 35/3/10

X \Projects\CPN2010\N101284B\CC Application&Plans\CC Letter Council doc

PH 02 4926 4061 FAX 02 4927 1425 4E & 4F T&G BLD 45 HUNTER STINEW/CASTLE NSW 2300 DY 7815 NEWCASTLE PO BOX 1807 NEWCASTLE NSW 2300

ABN 50103185 431



CONSTRUCTION CERTIFICATE NO CC N101284

Issued under Section 81A(5) and Part 4A Sections 109C of the Environmental Planning and Assessment Act

OWNER Name

Address

Contact Details

DEVELOPMENT CONSENT

Consent Authority/Local Government Area **Development Consent No** Date of Development Consent

PROPOSAL

Address of Development

Building Classification

Scope of building works covered by this Notice

Value of Construction Certificate (Incl GST)

Plans and Specifications approved

Critical Stage Inspections

Exclusions

Conditions (Clause 187 or 188 of the Environmental

Planning & Assessment Regulation 2000)

PROJECT REGULATIONS CONSULTANT

CERTIFYING AUTHORITY

ACCREDITATION BODY

Maraya Bell Neil Marshall & Sara Bell

C/- Zac Homes

PO Box 7160 South Penrith NSW 2750

Phone Fax

Pittwater Council

N0559/09

11 March 2010

Lot 33, DP 1135383, No 1 Fazzoları Avenue,

Mona Vale Class 1a

Dwelling

\$338,999 00

Schedule 1 See attached Notice

See attached Notice

Please contact Ashleigh Hayes

for any inquiries

William Nettleton for and on behalf of

City Plan Services Pty Ltd

Building Professionals Board Registration

No BPB0292

That I, William Nettleton, as the certifying authority certify that the work if completed in accordance with the plans and specifications identified in Schedule 1 (with such modifications verified by the certifying authority as may be shown on that documentation) will comply with the requirements of the Environmental Planning & Assessment Regulation 2000 as referred to in section 81A(5) of the Environmental Planning and Assessment Act 1979

DATED THIS

22nd DAY OF March 2010

William Nettleton

Director

NB Prior to the commencement of work S81A(2)(b)(1) and (11) and (b2)(1) and (11) and (11) and (c) of the Environment Planning and Assessment Act 1979 must be satisfied

X \Projects\CPN2010\N101284B\CC Application&Plans\CC Certificate doc



SCHEDULE 1 APPROVED PLANS AND SPECIFICATIONS

1 Endorsed architectural plans prepared by Zac Homes

Plan Title	Drawing No	Revision	Date
Site Plan	1/7	Α	21/09/2009
Shadow Diagrams & Landscape Plan	2/7	Ā	17/03/2010
Ground Floor Plan	3/7	Α	21/09/2009
First Floor Plan	4/7	A	21/09/2009
Section & Basix Information	5/7	Α	21/09/2009
Elevations	6/7	A	21/09/2009
Elevations	7/7	A	21/09/2009

2 Endorsed specification for Bell / Zac Homes

3 Endorsed structural plans prepared by Kneebone, Beretta & Hall

Plan Title	Drawing No	Revision	Date
Section	1 of 1		16/12/2009

4 Other documents relied upon

Title	Prepared By	Reference	Date
LSL Receipt	LSL Corp	5004237	10/3/2010
HOW	Master Builders Queensland	MBIS/039746- Permit Authority	23/09/2009
Basix Certificate	Zac Homes	272467S	17/12/2009

BASI Certificate

Certificate number 272467S

This certificate confirms that the proposed development will meet the NSW government's requirements for sustainability, if it is built in accordance with the commitments set out below. Terms used in this certificate, or in the commitments have the meaning given by the document entitled "BASIX Definitions" dated 29/06/2009 published by the Department of Planning. This document is available at www basix nsw gov au.

Project type

Lot no

Section no

7_a 33

separate dwelling house

Plan type and plan number

Deposited Plan 1135383

Pittwater Council

1 Fazzoları Avenue Mona Vale 2103

Zac Homes - Bell

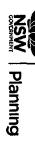
Local Government Area

Project name

Street address

Project address

Director-General
Date of issue Thursday, 17 December 2009



Conditioned floor area (m2)

627 224 229

19

Unconditioned floor area (m2)
Total area of garden and lawn (m2)

Assessor details and thermal loads

No of bedrooms

Site details

Site area (m²)

Roof area (m²)

Score

Certificate number
Climate zone

Assessor number

n/a

Area adjusted cooling load (MJ/m² year)
Area adjusted heating load (MJ/m² year)

n/a

√ Water 40 (Target 40)

Thermal comfort pass (Target pass)

Energy 41 (Target 40)

Department of Planning

BASIX

www basix nsw gov au

Version 6 11 / CASUARINA_2_0_13_0

Certificate No 272467S Thursday 17 December 2009

Schedule of BASIX commitments

The commitments set out below regulate how the proposed development is to be carried out. It is a condition of any development consent granted, or complying development certificate issued, for the proposed development, that BASIX commitments be complied with

Water Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check	
Fixtures				
The applicant must install showerheads with a minimum rating of 3 star in all showers in the development		\ 	<	
The applicant must install a toilet flushing system with a minimum rating of 3 star in each toilet in the development		\	<	
The applicant must install taps with a minimum rating of 3 star in the kitchen in the development		<		
The applicant must install basin taps with a minimum rating of 3 star in each bathroom in the development		✓		
Alternative water				
Rainwater tank				
The applicant must install a rainwater tank of at least 3000 litres on the site. This rainwater tank must meet and be installed in accordance with the requirements of all applicable regulatory authorities.	~	\ \	\ 	
The applicant must configure the rainwater tank to collect rain runoff from at least 143 8 square metres of the roof area of the development (excluding the area of the roof which drains to any stormwater tank or private dam)		\	<	
The applicant must connect the rainwater tank to				
all toilets in the development		<	<	
 the cold water tap that supplies each clothes washer in the development 		<	<	
at least one outdoor tap in the development (Note NSW Health does not recommend that rainwater be used for human consumption in areas with potable water supply)		<	<	

Department of Planning

Thermal Comfort Commitments Show on DA plans

The applicant must construct the floor(s) walls and ceiling/roof of the dwelling in accordance with the specifications listed in the table below

Floor, walls and ceiling/roof

Construction	Additional insulation required (R-Value)	Other specifications
floor - concrete slab on ground	al	
external wall - brick veneer	1 36 (or 1 90 including construction)	
external wall - framed (weatherboard fibre cement metal clad)	1 50 (or 1 90 including construction)	
internal wall shared with garage - plasterboard		
ceiling and roof - flat ceiling / pitched roof	ceiling 2.5 (up) roof foil/sarking	unventilated dark (solar absorptance > 0.70)

Note Insulation specified in this Certificate must be installed in accordance with Part 3 12 1 1 of the Building Code of Australia

Department of Planning

Thermal Comfort Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
Windows, glazed doors and skylights		de-consequence	

	not overshadowed		none	improved aluminium single clear (U value 6 44 SHGC 0 75)	7 15	m	W7 + W8 + W9	
COLUMN THE CANADA AND A CANADA	not overshadowed	ny	eave/verandah/pergola/balcony 451-600 mm	Improved aluminium single clear (U value 6 44 SHGC 0 75)	145	S	W6	
	1-2 m high <1 5 m away		none	Improved aluminium single clear (U value 6 44 SHGC 0 75)	57	*	W3 + W4 + W5	
	1 2 m high <1 5 m away	ny	eave/verandah/pergola/balcony 451-600 mm	improved aluminium single clear (U-value 6 44 SHGC 0 75)	181	×	W2	
	not overshadowed	ny	eave/verandah/pergola/balcony 1 500 2 000 mm	Improved aluminium single clear (U-value 6 44 SHGC 0 75)	164	z	W1	
	Overshadowing		Shading	Type	Maximum area (square metres)	Orientation	Window/glazed door no.	
<	<u> </u>	<	of the window and glazed	Overshadowing buildings/vegetation must be of the height and distance from the centre and the base of the window and glazed door as specified in the overshadowing' column	st be of the height and g' column	vegetation mus overshadowini	Overshadowing buildings/vegetation must be of th door as specified in the overshadowing' column	r
<	<		ed door above which they are st not be more than 50 mm	Unless they have adjustable shading pergolas must have fixed battens parallel to the window or glazed door above which they are situated unless the pergola also shades a perpendicular window. The spacing between battens must not be more than 50 mm.	rgolas must have fixed is a perpendicular wind	ble shading pe jola also shade	Unless they have adjusta situated unless the perg	
<	<		s than 0 35	Pergolas with polycarbonate roof or similar translucent material must have a shading coefficient of less than 0 35	ar translucent materia	ate roof or sımıl	Pergolas with polycarbon	
<	<	<	metres above the head of the head must be twice the value	The leading edge of each eave pergola verandah balcony or awning must be no more than 500 millimetres above the head of the window or glazed door except that a projection greater than 500 mm and up to 1500 mm above the head must be twice the value in the table	verandah balcony or rojection greater than !	eave pergola except that a pr	The leading edge of each window or glazed door in the table	
<			value no greater than that IGC must be calculated in	Except where the glass is single clear or single toned each window and glazed door must have a U value no greater than that listed and a Solar Heat Gain Coefficient (SHGC) +/ 10% of that listed Total system U-values and SHGC must be calculated in accordance with National Fenestration Rating Council (NFRC) conditions	r single toned each vt (SHGC) +/ 10% of th	single clear o 3ain Coefficient al Fenestration	Except where the glass is single clear or single toned each window and i listed and a Solar Heat Gain Coefficient (SHGC) +/ 10% of that listed To accordance with National Fenestration Rating Council (NFRC) conditions	
<	<	<		ch window and glazed door	isfied in relation to eac	iust also be sat	The following requirements must also be satisfied in relation to each window and glazed door	
<	<	<	etres) which are not listed in	The dwelling may have 1 skylight (<0 7 square metres) and up to 2 windows/glazed doors (<0 7 square metres) which the table	are metres) and up to 2	light (<0 7 squa	The dwelling may have 1 sky the table	
<	<	4	accordance with the and glazed door	The applicant must install the windows glazed doors and shading devices described in the table below in accordance with specifications listed in the table. Relevant overshadowing specifications must be satisfied for each window and glazed door	ed doors and shading ershadowing specifica	windows glazi le Relevant ov	The applicant must install the specifications listed in the tab	
					yhts	s and skylig	Windows, glazed doors and skylights	

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Window/glazed door ne.	Orientation	Maximum area (square motres)	Туро	Shadine	Overshadowing
W10	S	4 85	improved aluminium single clear (U value 6 44 SHGC 0 75)	none	not overshadowed
W11 + W12	m	381	improved aluminium single clear (U value 6 44 SHGC 0 75)	none	not overshadowed
W13	Z	5 65	improved aluminium single clear (U-value 6 44 SHGC 0 75)	eave/verandah/pergola/balcony >2 000 mm	not overshadowed
W14	X	3 8 9 9 9 9 9 9 9 9 9 9	improved aluminium single clear (U-value 6 44 SHGC 0 75)	eave/verandah/pergola/balcony >2 000 mm	not overshadowed
W15	Z	211	improved aluminium single clear (U-value 6 44 SHGC 0 75)	eave/verandah/pergola/balcony >2 000 mm	not overshadowed
W16 + W19	8	33 8	improved aluminium single clear (U-value 6 44 SHGC 0 75)	eave/verandah/pergola/balcony 451 600 mm	not overshadowed
W17	\	109	improved aluminium single clear (U value 6 44 SHGC 0 75)	none	dowed
W18 + W23	o	3 26	improved aluminium single clear (U-value 6 44 SHGC 0 75)	eave/verandah/pergola/balcony 451 600 mm	not overshadowed
W20 + W21 + W22	П	4 71	improved aluminium single clear (U-value 6 44 SHGC 0 75)	eave/verandah/pergola/balcony 451-600 mm	not overshadowed
W24 + W25 + W26 + W2 7 + W28	m	564	improved aluminium single clear (U value 6 44 SHGC 0 75)	eave/verandah/pergola/balcony 451 600 mm	not overshadowed

egend

In these commitments, 'applicant means the person carrying out the development

Commitments identified with a $\sqrt{\ }$ in the "Show on DA plans" column must be shown on the plans accompanying the development application is to be lodged for the proposed development)

Commitments identified with a $\sqrt{\ }$ in the Show on CC/CDC plans and specs column must be shown in the plans and specifications accompanying the application for a construction certificate / complying development certificate for the proposed development

Commitments identified with a $\sqrt{\ }$ in the 'Certifier check' column must be certified by a certifying authority as having been fulfilled before a final occupation certificate(either interim or final) for the development may be issued



10 March 2010

ZAC HOMES 1/11 HATCHINSON CRES JAMISONTOWN NSW 2750 Binding and Construction Industry ong Service Payments Corporation evel 1
19-21 "Nath Street Gostori NSW 2250" oiled Bag 3000 Central Coast MC NSW 2252
let 13-4-41
fax (02) 9287-5685
Email Info@fscc ins A no / au www.lspc ins manual are as well a

As per your request for a copy of your receipt no 00079643 dated 10 March 2010 the following information is provided

Received from (Name of person or organisation paying for levy) the amount of \$1,186 00

Payment details
Online 00585959275 \$1 186 00

being payment for Long Service Levy as detailed below

Levy Payment Form number 5004237

Council/Department/Authority PITTWATER COUNCIL

D A Number 559/09

Work address 1 FAZZOLARI AVE

WALANA VALLEY MONA VALE NSW 2103

Estimated value of work \$339 000 00 Levy payable (No exemption) \$1,186 00

Total levy paid \$1,186 00

Signed

Date

10/3/12

82849

23/09/2009 11 28

61-7-5527-8946

MASTER BUILDERS INS

PAGE 02/02

MBIS/039745-PermitAuthority 23/09/2009

Zac Homes Pty Ltd 1/11 Hatchinson Crescent JAMISONTOWN NSW 2750



A Division of Queensland Master Builders Association Industrial Organisation of Employers ABN 96 641 989 386 AFS Licence 246834 18 Central Park Avenue, Ashmore, Queensland 4214 Phone. 1300 13 13 24 FAX. 1800 18 13 28

Certificate of Insurance

RESIDENTIAL BUILDING WORK BY CONTRACTORS

A contract of ansurance complying with se Californ Insurance Limited (ABN 47 004 125 268) (AFSL 234438) one 92 and 96 and 96A of the Home Building Act 1989 has been issued by

ar respect of

New Single Dwelling

Æ

Lot 33, No. Fezzolari Avenua MONA VALE NSW 2103

Compact out by:

Zac Homes Pty Ltd

Licence Number

47259C

ABN

47 060 879 578

For

700 EM

M-& My B

In the amount of:

\$330,165.00

Subject to the Act and the Home Building Figuration 2004 and the conditions of the insurance contract, cover will be provided

- a beraficiary described in the contract and successors in tills to the beneficiary
- Instending successor is tile to the contractor of developer who did the work and subsequent successors in title, and by Authorized Signatury of the Instrum Instrument of Englishing has caused this Certificate of Englishing to contract the Certificate of Englishing the Certificate of Englishing to the Certificate of Englishing the Certificate of Englishing to the Certificate of Englishing to the Certificate of Englishing the Certificate of E i ca the 23rd day of September, 2000

CO 20005()

aland Insurance Services (ABM 96 641 980 388) (AFS

Esto (PRI 47 (N) 125 200) (N'S

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MOTICE: To download a copy of y nee nelles manden visit hillscheers oods providen com de.

Page 1 of t

CITY Ju . EL TIVICES

Construction Certify gladier OC

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N 1 0 1 L 8 4

2 2 MAR 2010

RESIDENTIAL CONSTRUCTION SPECIFICATION

WHEN USED FOR EXTENSIONS, ADDITIONS, ETC ANY PART THAT IS NOT APPLICABLE TO BE DISREGARDED

PROJECT

Let 33 Walang Valley Mona Vale

DA No 559 09

CCNO N101284

Trechie Specification

NOTE If this document is to form part of a building contract, it is necessary to complete Specification in full Squares must be ticked thus ☑ where applicable thus ☑ where not applicable

SPECIFICATION FOR THE

DERECTION AND COMPLETION OF A New Home

STREET NUMBER N° 1

STREET Fazzolari Arenve

SUBURB/TOWN Mona Vale

MUNICIPALITY/SIIRE OF P. Hugher

FOR Mr Mrs (Ms) Sarage Maraya Bell

Herein after called the owner

THE CONTRACTOR MUST ENSURE THE WHOLE WORKS AND SERVICES ARE PERFORMED IN ACCORDANCE WITH THIS SPECIFICATION AND DRAWINGS AND COMPLETED IN WHOLE IN A TRUE AND WORKMANLIKE MANNER

ADDRESS 1/11 Hatch ison Coesent Tamisantown 2750 LICENSE NUMBER 47259 C EXPIRY DATE Sept /2010
BUILDERS A B N 47060 679 576.
INSURANCE DETAILS Master Builders QLD

GENERALLY

PROVIDE Means the supply and complete building in of specified materials fittings etc

APPROVED Means approved by the owner L C APPROVED means approved by the local council

REGULATIONS AND NOTICES All State and Local Government Building Ordinances and Amendments thereto and requirements of legally Constituted Authorities and the Building Code of Australia and Australian Standards must be complied with by the builder. The Builder to give all notices and obtain all permits

INSURANCE The Owner Builder must effect the insurance of all works against fire and storm. The Builder shall at his own expense adequately insure against Public Risk and to insure as required under terms of the appropriate Workers Compensation and Employers Liability Acts, and Home Warranty Insurance.

LABOUR AND MATERIALS All labour, material fittings and plant required to construct and complete the building is to be provided by the builder. Materials are to be new and of the standard specified. Faulty or unsuitable marerial not to be used. All work to be performed in a good worklike manner.

SETTING OUT. The Builder is to ensure the building is set out in accordance with the site plan and within the boundaries of the site.

TEMPORARY TOILET Owner Builder shall provide temporary toilet accommodation for the workmen Where the Authority requires the temporary toilet to be connected to sewer mains the additional cost plus Builders margin shall be bourne by the Owner

ELECTRICITY The Builder is to make arrangements for any electrical power to be used in the erection of the works and is to pay fees and costs incurred therein. Should Additional poles, wring service risers or underground wring etc. be required by the Electricity Supply Authority, this additional cost plus Builders margin shall be bourned by the Owner.

WATER Owner Builder allow for connecting water to the proposed building and fittings

PLANS AND SPECIFICATIONS Any work indicated on the plan but not in the specification or vice versal and any item not shown in either plan or specification but which is obviously necessary as part of proper construction and/or finish is to be considered as so shown or specified and is to be done as part of the contract. Variations to plans specifications may not be made without written consent of the owner.

PLANS OF THE JOB A legible copy of the plans and specifications bearing the approval of the Municipal Authority concerned must be maintained by the Builder at all times

RESPONSIBILTIES It is the responsibility of the Builder / end user to venfy plans and Specifications as to their accuracy and suitability

VARIATIONS Any variations to specifications are to be added in the addenda at the back of the specification

SITE SIGN Owner Builder to supply site sign showing Lot No name of Builder and Licensee and full License

EXCAVATOR - B C A. PART 3 1 1

SITE Owner Builder to clear the site of all stumps roots etc. grubbed to a minimum distance of 3m outside the building line or to the boundaries of the allotment, whichever is the less. Any depressions within the area covered by the building are to be filled.

TRENCHÉS B C A. PART 3 2.2 - All footings for walls, piers etc. to be excavated to a minimum depth of 500mm or to a depth necessary to secure solid bottoms and even bearings throughout bottoms to be level and stepped as necessary

At completion of foundations walls etc. all excavations are to be filled, well rammed to ground level and surplus soil spread.

ROCK OR SHALE Excavation in rock or shale and removal from the site by \(\subseteq \text{Owner} \) \(\subseteq \text{Builder} \) at additional cost ACCESS \(\subseteq \text{Owner} \subseteq \subseteq \text{Builder} \) builder to provide all weather access to site

CONCRETOR - B C A. PART 3 2 3

CONCRETE IS TO CONSIST OF

4 oarts 20mm gauge blue metal or other approved aggregate 2 parts clean sharo sand 1 part fresh cement a sufficiency of water all well mixed mechanically and placed in position immediately after mixing. The slump of the concrete is not ro exceed 100mm. Ready mixed concrete AS1379 to have a minimum compressive strength of 20Mpa tested in accordance with code AS3600 "SAA Concrete Structures Code". After pouning the concrete is to be kept damp, covered and allowed to stand at least four days for footings, and seven days for beams etc. before being built on all subject to engineering specifications.

FOUNDATIONS - B C A PARTS 3 2 3 3 2 4 & 3 2 5

REINFORCED CONCPETE FOUNDATIONS

Provide reinforced concrete footings to AS2870 and to Local Council's requirements or engineers design if applicable

PIER AND BEAM FOOTINGS

Piers shall be solid concrete as designed by structural engineers, taken to uniform bearing approved by supervising engineer. Beams shall be reinforced concrete having even bearing on piers as designed by structural engineer. CONCRETE FLOORS. Provide suspended concrete floors if shown on drawings. Approved metal formwork may be used to manufacturers recommendations, solid filling may be used for laundry/garage adjoining building top of slab to be not less than 50mm below antcap/dampcourse level and have a continuous support on a minimum of 75mm on at least two opposite sides.

TABLE FOR SUSPENDED CONCRETE SLABS

Guide Only Engineering details may be required. All measurements in mm. Y = Structural Grade Deformed Bar Int = Internal. Ext = External.

Clear	20 MF	5			RE	NFOR	CEMEN	:T		
Span:	Slab				Ba	ars to A	S 1302			
Between	Thick	ness	Fabric	to AS	N	laın Ba	ເຮົ	,	Te Ban	5
Supports			1304		Size	Sp	acing	Size	Spac	ang
Up fo	Int	Ext	Int.	Ext	*	Int	Εx	*	Int	Ext
2000	100	100	F72	F82	Y12	280	220	Y12	400	400
2500	100	110	F82	F102	Y12	220	240	Y12	400	400
3000	110	130	F92	F81	Y12	160	100	Y12	400	300
3500	130	150	F102	F81	Y12	140	100	Y12	300	280
4600	150	180	F81	F918	Y12	100	90	Y12	280	240
4500	170	-	F81	-	Y12	100	-	Y12	260	-

This table to apply to single spans, simply supported one way non-wall bearing slabs. Main bar reinforcements to the set 20mm from bottom and edges of slab and run from support to support. Minimum 50mm bearing of reinforcement over supports with the bars on top edge of slab and to have 30mm cover to reinforcement if exposed to weather. The main bars shall be laid in direction of shorter span. For fabric reinforcements with different bar spaning, closer bars are the main bars. For the purpose of shrinkage control, add top layer of F72 mesh for spans to 3m and F82 mesh for spans to 3 m. Durability requirements in above ground exterior concrete to be 40MPA to 1km from coastline and 32MPA 1 km to 50km from coastline. Provide slip joints between concrete and supporting valis. All vall bearing or larger slabs must be designed by a structural engineer.

☐ SLAB ON GROUND Provide 100mm minimum thick concrete slab reinforced with F72 AS1304 set 30mm from top or concrete on a foundation or a minimum of 50mm or sand with a 200 uni polythene membrane between lapped 150mm and rurned up. Maintain a minimum of 100mm bearing surface all round

PATHS DBuilder Downer to provide paths of concrete as previously specified from front entry step and as shown on plans car tracks to be 100mm thick, and paths 75mm thick. Finished thickness including provision of two parts metal screening to one part cement dusted over surface and trowelled all in one operation or alternatively rendered while concrete is green. Paving to be laid with bituminous felt jointing strips not more than 1.2m apart, and to full thickness of concrete and rendering to be "V" jointed over same. Excavate for and lay paths to even grade true to line and curve.

PEST CONTROL. The underslab area shall be treated against termite infestation in accordance with AS 3660.1 commonly known as Part A unless relevant authority regulations prohibit any such treatment. Part B will be provided as a perimeter treatment in accordance with AS 3660. To be carried out by licensed contractor, with owner to be supplied with applicable certificates. A durable notice is to located in a prominent position showing method, date type of barrier and life expectancy.

BRICKLAYER

PRICK! AVER	Congral	AS3700	AS2125 8	2 2126

CLAY BRICKS To be sound hard of well burnt clay and shale and comply with specification A21 "Burnt Clay and Shale Building Bricks"

☐ CONCRETE BLOCKS OR BRICKS To comply with AS 2733 "Concrete Building Blocks"

☐Stonework ☐Texture Bricks ☐Face Bricks ☐Concrete Blocks or Bricks Common bricks may be used for all other work

SAND To be clean sharp and free from all impunities

MORTAR & JOINING AS3700 or B C A PART 3 3 1

CEMENT MORTAR To be one part fresh cement to three parts sand

LIME MORTAR To be one part time to 3 parts sand. Lime to be well slaked before use

COMPO MORTAR To be one part cement, one part lime (or approved plasticizer) and 6 parts sand. All bricks to be well wetted before use. This is not to apply to texture bricks. Footing courses to be grouted solid with cement mortar. All brickwork to be properly bonded. It laid on full bed and all perpends filled. All piers are to be built solid and each course grouted as work proceeds. Carry up all work true and plumb to even gauge and in level courses the full height and thickness required. The face brickwork above damp course level to be finished with neatly ironed or raked joints. Beds and joints to be kept to a reasonable thickness. Finish all other exposed brickwork with neat struck joints.

BUILD THE FOLLOWING IN CEMENT MORTAR All brickwork to underside of floor bearers level. All 110mm thick brickwork. All copings, steps brick balustrade walls sills piers wing walls retaining walls. Brick Fences on alignment and/or brickwork under timber fencing also concrete blocks or bricks.

BUILD IN COMPO MORTAR All other bnckwork including concrete masonry

VENEER WALLS To be 110mm Bnckwork built in Compo Mortar on foundation walls as previously specified Internal faces to be a minimum 25mm from timber frames. Build in 3mm galvanised wall ties opposite each alternate stud four courses above level of bottom plate then every fourth course and spaced not more than 460mm horizontally and 610 vertically. Ties to be left open for attachment to study. A cavity space of between 25mm and 50mm must be maintained throughout. Cavities and weep holes to be clean and clear at a damp course level. All mortar droppings to be caught on paper or other material and removed before internal linings are fixed. Mortar joints on inside faces of walls to be flush with brickwork.

BRICK WALLS External walls to have two leaves of brickwork with a clear cavity of not less than 50mm. Masonry units used for external walls in clear cavity construction and internal walls to comply with AS 3700 and manufacturers instructions. Single skin external walls if approved may require the external face to be coated with an approved waterproof material.

WALL TIES BIC A PART 3.3.3 For brick and brick veneer buildings shall be corrosion resistant and suitable for the environmental conditions of the building site. Ties shall be spaced at maximum 600mm apart in both directions and 300mm around openings and edges of brickwork in accordance with AS 3700 and have a duty classification as per AS 2699.

Wall ties cavities and vermin proofing kept free of mortar droppings

SPECIAL WALLS (if shown on plan) Walling not of timber Veneer-on-Timber or Masonry to be constructed as per Structural Engineers Details and Certificate

SILLS To be brick on edge unless stated otherwise

SLEEPER PIERS Provide brick solid filled concrete masonry units or concrete to a minimum of 200 x 200mm up to 1 3m high spaced not more than 1 8 centres. If pier exceeds 1 3m increase by 50mm all round. All piers to have concrete pads under as per table below.

SUPPORTED AREA (m²)	WIDTH OF SQUARE PAD (mm)	DIAMETER OF CIRCULAR PAD (mm)	THICKNESS (mm)
10	400	500	200
20	500	600	200
40	600	750	250

ENGAGED PIERS To be minimum of 200 x 90 mm spaced at not more than 1 8m centres to support floor bearers and at similar centres to suffen walls supporting concrete slabs. Ties to brick wall every 4th course with approved ties.

ACCESS Adequate access in the external foundation wall must be provided under all floors - AS 366O 1

VENTILATION B C A PART 3 4 1 - Sub floor to be ventilated and cross ventilated by means of evenly distributed openings in the external walls having an unobstructed area of not less than 2100mm per square m of external wall and not less than 200mm in depth in every part. Vents to be immediately below bearers and similarly provide vents under verandah floors and suspended floor slabs. Sufficient cross ventilation to be provided through all still air Room ventilation above floor must be provided in accordance with Good Building Practice. Appropriate special provision to be made where a gas appliance is installed. Ventilation may be varied by Local Council.

CORBAL COURSES Concrete floors to be supported by corbal courses as required

DAMP COURSE B C A PART 3 3 4, AS3700 & AS2904 - Provide a continuous run of approved dampcourse material to full width of wall thickness on all brickwork at level not higher than bottom of floor bearers and engaged piers. Damp course material is to be run in long lengths, lapped minimum 100m at joints and full width at all intersections. To walts surrounding concrete and/or solid floors an additional run of dampcourse is to be laid one rull course above floor level and stepped down to meet lower dampcourse.

ANT CAPS AS 3600 1 To all brickwork and piers at the level of underside of floorbearers ant capping of 0 5mm gauge Zincalume or other approved metal is to be set projecting 38mm beyond the internal faces of all brickwork and turned down at a 45 degree angle, lapped 13mm, sealed and/ or crimped at all joints and corners so as to provide a continuous and effective barrier against termites throughout the length of the material

VERMIN PROOFING 13mm mesh galvanised bird wire to be built into brickwork and taken across cavity and secured to bottom plate

FLASHINGS B CA PART 3 3 4 AS2904 AS1804 AS3700 - Approved dampcourse material to be built in under all window sills 25mm at back of wood sill and 50mm at each end of same. Flashing to be bent down across cavity and built 25mm into veneer wall. LC approved dampcourse material to be built in over all exposed window and external door openings also as required in all "wet areas".

WEEP HOLES Perpend joints are to be left open in external brick walls spaced approx 600mm immediately over flashings of all exposed openings and to brick retaining walls, fender walls etc. as required

STEPS As shown on plan in bricks to match other exposed brickwork. To be built in solid work or where side walls are provided on consolidated filing. Treads are to be brick on edge, or precast concrete units with a minimum of 255mm and maximum or 396mm width and a maximum of 190mm and minimum of 115mm rises.

ARCH BARS AS 1170 pts 1 & 2 SA Masonry code section 3 A.S 3700 Brickwork over openings to be supported on Ingal" specific made arch bars or equivalent galvanised to A.S 1650 and have minimum bearing of 150mm each end

Spans to 1100mm = one 85mm flat bar

Spans from 1100mm to 1800mm = one 100mm x 100mm Lintel

Spans from 1800mm to 3 0m = one 150mm x 100mm Lintel

For spans over 3 0m refer to structural engineer

	FIREPLACE TYPE
	HEATING TYPE
	AIRCONDITIONING TYPE
BY	□ OWNER □ BUILDER

FOUNDATION DOOR Provide access door where applicable approximately 600mm wide and fitted with appropriate hinges and lock.

STEEL WORKER

Provide steel work in accordance with Engineers details or as shown on plan. If wrought iron is shown on plan provide same

METAL FRAMING

METAL FRAMING Provide and erect framing to A S 3623 or engineers detail as shown on plan in accordance with manufacturers recommendations and instructions. Damp proofing (flashing) to be provided between concrete floors and bottom plate and any adjoining masonry walls etc. If this section is applicable, any section in this specification which duplicates any of this work is to be disregarded.

CARPENTER

GENERALLY Timber shall comply with AS1720 2, AS 1684 B C A PART 3 4 3 and be part of the class specified reasonably straight grained and free from those defects which might effect its durability and/or strength. Scantlings to be in long lengths, accurately cut and fitted well spiked and securely fixed. For the exercise of this specification (unless specifically stated otherwise) hardwood is to be of a stress grade and not less than F8 and softwood not less than F5. Timber shall be graded to appropriate SAA grading specification. Mechanical grading to AS1748 visual grading will require evidence that they comply with the required stress grade. Allowable tolerances as to size is permitted only as outlined by the appropriate SAA standard. Timber is NOT to be weakened by any method such as cutting, planing, chipping or etc. Where size of timber is restricted owing to lack of space, a higher grade or laminated timber may be substituted if warranted, all only as approved by Local Council.

FLOOR FRAMING All floors shown on plan as timber are to be framed at level shown with hardwood. Bearers to be laid true and level. Packing not permitted. Provide 100 x 75mm or 125 x 75mm bearers, set on edge as already specified at max. 1.8m centres. Provide 100 x 50mm joists set on edge at a maximum 450mm centres and fix to bearers by double nailing at each crossing. Underside of joists to be checked out as necessary over bearers to enable tops of joists to be finished true and level. Provide Hardwood or Oregon joists. Unsupported spans exceeding 2.7m to have 50 x 50 herringbone strutting or solid blocking spaced at maximum of 1.8m centres. No span to exceed 4.8m (Timber walls must have double joists under).

WOOD PRESERVATIVE All hardwood plates bearers and joists (if timber construction) in ground floor are to treated with one coat or pest resisting and wood preserving oil (Specification No AS1604) or approved chemical treatment before fixing, on all faces and ends except tops of joists

WALLS To be tramed with [] Hardwood [] Oregon [] Pine

WALL PLATES (and Bottom) For 100mm studs - 100 x 50mm for 75mm studs - 75 x 50mm. Plates may be checked approx. 10mm to provide uniform thickness where stude occur. Where plates are machine gauged to a uniform thickness checking may be omitted.

STUDS (not more than 3m long) Wall external and internal

MAXIMUM 3M LONG	UPPER STOREY	LOWER STOREY
At 450mm centres	100 x 38mm or 75 x 50mm	100 x 50mm
Each side of openings up to 1 8m wide	100 x 50mm or 75 x 50mm	100 x 75mm
Other openings up to 3 6m	100 x 75mm or 75 x 75mm	100 x 100mm
Over 3 ôm	100 x 100mm	100 x 100mm

Three studs are to be provided at each wall angle and intersection well blocked and securely fastened together. Two studs mat be accepted in binck veneer construction. With comer windows, the angle studs are to be cut away to suit frame. 100 x 100mm or 75 x 75mm posts are to be framed in corner mullions of windows or galvanised pipe may be used.

TIMBER ROOF TRUSSES To be properly fabricated to manufacturers certified detail or Engineers detail and fixed in strict accordance with their drawings or instructions. Bottom chord to be clear or internal walls with a minimum clearance or 13mm at the point of maximum deflection after loading. Self adjusting fasteners to be used to fix truss chord to internal top plate.

HEADS Where supporting Roof Trusses up to 900mm centres (To be checked into studs)

	FOR TIL	ED ROOF CONSTR	RUCTION	FOR SHE	ET ROOF CONSTR	RUCTION
				(M	etal of Fibre Cemer	nt)
SPAN	6000mm	7500mm	9000mm	6000mm	7500mm	9000mm
o⁻αb						
1200	125x50 or 150x38	150x50 or 175x38	150x50 or 175x38	100050	125x50 or 100x75	125x50 or 100x75
1500	175x150 or 150x75	175x50 or 150x75	200x50 or 175x75	125x50 or 100x100	150x50 or 125x75	150x50 or 125x75
1860	200x50 or 175x75	225x50 or 200x75	225x50 or 200x75	150x50	175x50 or 150x75	175 x50 or 150x75
2100	225x50 or 200x75	250x50 or 225x75	250x75	175x50 or 150x75	200x50 or 175x75	200x50 or 175x75
2400	250x50	250x75	300x50	200x50 or 175x75	225x50 or 200x75	250x50 or 200x75
1 27 0 0	300x50	300x50	300x75	225x50 or 200x75	250x50 or225x75	300x50 or 225x75
3000	300x75		ł ł	250 x 50 or 225x75	300x50 or 250x75	300x75 or 250x75

HEADS Where supporting conventional roof construction (To be checked into studs)

SPAN	FOR TILED ROOF CONSTRUCTION	FOR SHEET ROOF CONSTRUCTION
		(Metal or fibre cement)
1 2m	75x75mm or 100x38mm	50x75mm
1.5m	125x50mm or 100x100mm	100x38mm
1 8m	175x50mm or 150x75mm	125x50mm or 100x100mm
C 1m	200x50mm or 175x75mm	, 150x50mm or 125x100mm
2 -m	225x50mm or 200x75mm	175x50mm or 150x75mm
2.7m	250x50mm or 225x75mm	200x50mm or 175x75mm
3 0m	250x75mm or 300x50mm	225x50mm or 200x75mm

Timber grading Hardwood AS2082 Oregon or C/Pine AS2440 Where depth exceeds 150mm timber is to be seasoned having a maximum moisture content of 18%

BRACING AS1684 BICIA PART 3.4.3 As appropriate for wind velocity for buildings type "A and or B" to be evenly distributed throughout. For wind speeds exceeding AS1684 frame and bracing to be designed by Structural Engineer.

NOGGING (BRIDGING) To be fixed between stude at 1 35m maximum height where wall cladding is joined 38mm thick. Where not joined 25mm thick and finished not more than 7mm behind the face of the frame. Skirting blocks of the same section as bottom plates and not less than 225mm long to be spiked to plates. Skirting blocks not required if wall linings extend below the top of the bottom plate and skirtings are less than 75mm high.

ROOFS AS1684 B.C.A. Clause 3 4 3 6 - To be framed with ☐ Hardwood ☐ Oregon ☐ Pine Length of raffers to longest ridge is to be gauged to suit full tile courses

CEILING JOISTS To be of dimensions 100 x 38mm Hardwood 100 x 50mm Oregon at maximum 450mm centres. Fix trimmers to ceiling joists where required at 450mm centres. Where two lengths of joists are used they are to be lapped and well spiked over partition walls. All to be dogged to hangers. Ceiling joists, where practicable are to be at right angles to ridge.

HANGERS To be provided so that the unsupported length of ceiling joists does not exceed 2 1m double nailed to each ceiling joists and secured to side of rafters wherever practicable

SPAN	HARDWOOD	OREGON	
Up to			
3 0m	175 x 38mm	200 x 38mm	
3 025m to 3 6m	200 x 38mm	200 x 50mm	
3 625 to 4 2m	225 x 38mm	250 x 38mm	
4 225 to 4 8m	250 x 38mm	300 x 38mm	

Where the length of hanger exceeds 4 8m the hanger is to be supported by a beam as for Strutting Beams and the size of hanger is to be governed by the new span (Roof not to be strutted off hangers or beam supporting hanger)

STRUTS Strutting from ceiling joists or hangers over room not permitted. Struts must be seated on or directly above walls. Size to be 75×75 mm up to a length of 2.1m centres under purlins. Where strutting beams are required, they are to be packed up from the walls and be 13mm above level of ceiling joists also must not be used as hangers for ceiling joist or to support hangers.

COLLAR TIES Up to 4 2m span – 75 x 50mm Hardwood or 100 x 50 mm Oregon Over 4 2m span – 100 x 50mm Hardwood or 125 x 50mm Oregon Fixed to alternate pair of rafters

GUTTERS AND VALLEY BOARDS 19mm thick and width of gutter

MANHOLE. Trim as required between ceiling joists for manhole 600 x 400mm line the opening and provide suitable cover

HOT WATER TANK. Provide hot water storage tank (AS1529)

PORCH ROOF To be constructed when shown on plan Post D.A.R pipe or wrought iron, securely fixed top and bottom 75 x 50mm Top Plates – D.A.R if exposed 75 x 50mm Rafters spaced at maximum of 450mm centres. A fall of at least 13mm in 300mm must be maintained towards outer edge. Roof to be covered as per drawing. Fix 25mm facia all round.

GABLES (If shown on drawing) Form and project plates, purlins, indges etc. Supply and fit 159 x 19mm barge boards with fillet at top, school up to tiling or capped with fibre cement to allow for verge tiles to be pointed with mortar or formed metal fascia to manufacturers specifications. Cover gable faces with siding as shown on drawing Line soffits as for eaves

EAVES Project rafters at eaves to give soffit as shown on plan and fix facia all round out of 25mm timber

Line underside of rafters with 4 5mm fibre cen	ment, cover joints an	d provide quadrant	moulding against wall,
Come flat and with 4 from fibre passant latur	nto a full 7mm areas	in at back of facing	and accurred at until to

 \square Form flat soffit with 4 5mm fibre cement let into a full 7mm groove at back of facia and secured at wall to 50 \times 25mm battens nailed to framing and supported at all joints and intermediately with 38 \times 38mm sprokets at maximum of 450mm centres. Cover joints with approved strips and provide quadrant moulding against wall

☐ SHEET	FLOORING	To be	fixed	m	strict	accordance	with	manufacturers	recommendations	_	A S 2269
A.S 1859											

☐ FLOORING TIMBER Must not be fixed until roofing complete and building weatherproof. Timber must be seasoned to a moisture content between 10% and 15%. Flooring is to be tightly cramped, every board nailed are each bearing with nails punched below the surface thoroughly cleaned and flushed off at completion. Floor must be T & G with a finished thickness not less than 19mm. Flooring exceeding 43mm face wide to be double nailed at all bearing points.

FLOOR SANDING Floor to be sanded to even surface

☐TIMBER DECKING To be ☐Hardwood ☐Treated pine ☐Other to joists using corresion proof rasteners

To be securely fixed

☐ COMPRESSED FIBRE CEMENT Not less than 18mm for joists spacing 600mm or 15mm for joists spacing 450mm. All installed as per manufacturers instructions.

FLOOR FRAMING

		HARDWO OD	OREGON / PINE
BEARERS	(Over 2 or more spans)	<u> </u> 	1 : -
At 1 8m centres set on edge	Non load bearing & sheet roofing	100x75mm	125x75mm
JOISTS	Supporting tile roof or trusses	125x75mm	125x75mm
Ground and upper floors	Up to 1 8m	100x50mm	150x50mm
At 450mm centres	18 to 24m	125x50mm	175x50mm
# 15 mm	2 4 to 3 0m	150x50mm	200x50mm
	30 to 36m	175x50mm	250x50mm
	3 6 to 4 2m	225x50mm	275x50mm
	4 2 to 4 8m	250x50mm	300x50mm

An engineers certificate is required as to size and adequacy for spans over 4 0m

Unsupported spans exceeding 2.7m to have 36x36mm herringbone strutting or solid blocking 1.8m centres as per AS 1684

	SPACING	HARDWOOD	OREGON OR PINE
PITCHED ROOF	0.1100.12		
RAFTERS Tile roofing	At 450mm centres	100x38mm	100x50mm
MI-TENS THE TOOKING	Up to 600mm centres	100x38mm	100x50mm
Corrugated Fibre Cement Roofing	At 600mm centres	100x38mm	100x50mm
Corrugated metal roofing	At 900mm centres	100x38mm	100x50mm
BATTENS Tiled roofing –	711 Occinitional Constitution	38x25mm	38x25mm
Rafters at 450mm centres	Spaced to suit full tiles	38x38mm	38x38mm
Rafters at 600mm centres	Spaced to suit full tiles	38x38mm	38x38mm
Corrugated Fibre Cement Roofing	Opacea to said ian also	75x32mm	75x38mm
Corrugated Metal Roofing	900 mm centres	75x32mm	75x38mm
RIDGES and HIPS all roofs	300 mm centres	150x25mm	150x25mm
VALLEYS all roofs		150x38mm	150x38mm
	2 1m centres	100x75mm	100x75mm
PURLINS tile roofs	2 1m centres 2 1m centres	100x75mm	100x75mm
Metal or Fibre cement roors	2 fm centres	100x50mm	75x75mm
STRUTS maximum 2.1m	every alternate pair of rafters	75x50mm	100x50mm
COLLAR TIES to 4.2m	every alternate pair of rafters	75x50mm	125x50mm
Over 42m		1 ' '	
STRUTTING BEAMS spaced at 2.4m as required	span to 2 0m	100x50mm 150x50mm	125x75mm 150x75mm
Not to be used as hangers for ceiling joists	2 0m to 2 4m		
	2.4m to 3 0m	175x50mm	175x75mm 200x75mm
	3 0m to 3 6m	200x50mm	200X/3mm
GUTTER and VALLEY BOARDS	min thickness	20mm	100-50
CEILING JOISTS	450mm centres	100x38mm	100x50mm
	600mm centres	100x38mm	100x50mm
HANGERS	2 1 centres	470 00	000-00
	2.1m to 3 0m	175x38mm	200x38mm
	3 0m to 3 6m	200x38mm	225x38mm
	3 6m to 4 2m	225x38mm	250x38mm
	4.2m to 4 8m	250x38mm	275x38mm
			!
WIND BRACING A S 1684 as appropriate for			
Wind velocity for buildings type "A and B" to be	}		1
Evenly distributed throughout			1
FLAT BOOK ET	SPANS	HARDWOOD	OREGON or PINE
FLAT ROOF			
RAFTERS	Up to 24m	125x50mm	150x50mm
KAFIERO	24 to 30m	150x50mm	150x50mm
	30 to 36m	175x50mm	175x50mm
	3 6 to 4 2m	200x50mm	225x50mm
	4 2 to4 8m	225x50mm	250×50mm
	4 8 to 5 4m	275x50mm	275x50mm
	5 4 to 6 0m	300x50mm	300x50mm
CATTELE		75x38mm	75x38mm
BATTENS	up to 3 0m	200x100mm	225x100mm
RIDGE BEAMS TO OPEN SPANS	3 0 to 3 6m	225x100mm	250x100mm
Fall of roof to be not less than50mm in 30m span	3 6 to 4 2m	250x100mm	275x100mm
and to be herringbone strutted or solid blocked full	4 2 to 4 8m	275x100mm	300x100mm
depth of joists Where span exceeds 2.7m for			
subsidiary roofs fall is to be not less than 13mm per			
300mm of span Roof to be sarked and ventilated			
1.000	up to 2 1m	150X50MM	150X75MM
VERANDAH BEAMS	2 1 to 3 0m	200X75MM	200X75MM
		100X100MM	100X100MM
VERANDAH POSTS			
	Per control of the co		

JOINER

DOORS AND WINDOWS GENERALLY All timber sizes are nominal and tolerances only as provided by the appropriate Australian Standards listed here. For door frames and jamb linings – doors and windows – AS1288 – 89. Frames to be properly fitted and joined together with linings moudings and timmings properly mitered or scribed. All defects and marks filled and ready for painting, with approved primer or a priming oil including a wood preservative.

JAMB LININGS Lining to be a minimum of 38mm thick solid rebated to all door openings. Where return plaster reveals occur, linings are to be 75×50 mm rebated. Linings to openings not having doors or to have swing doors.

are to be 25mm thick timber securely fixed

DOORS AS1904 AS2588, AS2689 Fit accurately to door frames hang front and rear doors with three 100mm steel butts and other doors unless otherwise specified with two 88mm steel butts. Height of doors to be 2040mm

To front entry a 2 040m x 820mm x 40mm door with selected lock and furniture

To rear entry fit 2 040m x 820mm x 40mm door with selected lock and furniture

Internal doors to be 2.040m x 820mm x 35mm flush panel with selected lock and furniture

Double doors to be 2 040m x 820mm x 40mm rebated together with mortise lock and furniture

Fit sliding doors and tracks where shown on plans

Any variations to door sizes must be shown on plan as a separate item

GARAGE DOORS to be ☐ Tilt ☐ Roll ☐ Other

	ΑU	TOMATIC	GARAGE	DOOR	OPENER
--	----	---------	--------	------	--------

	Owner	TI Rui	Ider
•	CARICI	1100	IUCL

WINDOWS AS2146 AS2147
Casement
Hopper
Double Hung To be approved stock construction out of solid rebated material. Head and stiles are to be out of material having and end section of not less than 5000mm square mullions and transoms not less than 6250mm square rebate in all cases are to be of such depth as to ensure complete weather proofing. Sills minimum 75mm thick sunk, weathered and throated tallow wood or other species of hardwood. Window units and combination window wall units may have sills not less than 50mm thick. SASHES Sashes are to be manufactured from sash stock material not less than 38mm thick. Where glass weight of 3mm or heavier is indicated for use (see under Glazier) 44mm sash and stock material should be used unless a mechanical sash adjuster is provided then 35mm material can be used. All units to be supplied with furniture.

☐ ALUMINIUM FRAMED AS2047 AS2048 as shown on plans. Type and manufacturer as selected fitted with all furniture and fixed in accordance with the particular manufacturers recommendations. Heads and sills to be flashed. Frames and sashes must be fitted in conformity with good building practice.

ARCHITRAVES Provide architraves of standard section to all door window and other openings internally

SKIRTINGS Provide skirtings of standard section

STORM MOULDS Fix to all window frames and outside doors where appropriate

KITCHEN CUPBOARDS Provide properly constructed floor and wall cupboards in position and to dimensions indicated on plan. Floor cupboards to have raised floors with toe space under front face. Cover bench tops with materials as selected. Doors to be accurately fitted and hung and finished with selected catches and handles. All cupboards are to be securely fixed in position and neatly finished at wall and floor intersections.

BUILT IN CUPBOARDS Frame up and fix cupboard/s in position and to dimensions shown on plan. Provide doors and door furniture as selected

BATHS. Under exposed edges of bath provide a properly constructed frame ready to receive covering specified elsewhere. Or build binck-on-edge walls in classification "M4" mortar and leave ready to receive tiles as specified under "Tile layer. Make provision for the area under bath to be properly drained and ventilated.

BATH AND SHOWER RECESS if bath and shower recess are to be lined with laminate or water proof material a timber frame is to be constructed. If tiling is called for refer to "tile layer" in this specification.

STAIRS & HANDRAILS Provide stairs and handrails where shown all as per B C A Housing Provisions Parts 3 9 1 & 3 9 2

CONCRETE STAIRS To engineers detail

	FENCER
FENCING By Owner Builder TYPE Brick as detailed Colourbond as per manufacturers specification Timber as detailed Other/	SITUATION Front Sides Rear Other
	DRAINER
effectively dealt with and diverted clear of the buildings where running parallel to same SEWERED APEAS A drainage system from percent connected to the sewer main and all to be in accordance.	potings of the buildings. All seepage and soakage water is to be ng. Trenches for drains must not be within 600mm of footings of edestal pan and from wastes or all fittings to be provided and ordance with the Rules and Requirements of the Authority for
Water Supply and Sewerage Yard gully at rear of to CERTIFICATE OF COMPLIANCE IS TO BE PROD	ouilding to be provided Allow for mm drainage UCED AT COMPLETION OF WORK
UNSEWERAGED AREAS A drainage system to with the requirements of the Local Authority concern and with a minimum cover of 300mm. Lay 100m soil-vater from wastes of washtubs, bath shower was discharged or adequately absorbed joint all pipe ascertain and allow for the Council's requirements in and placed in position shown to take water from the nearby paving level. All drainage work from fitting accordance with the Rules and Requirements of the Certificate of Compliance to be produced for Drainage.	be provided from all fittings and from grease-trap in accordance ned. Drains must be excavated to provide even falls throughout im socketed stoneware pipes pr approved PVC pipe to take ash basin and grease trap. All drains are to be laid so that water as as required by Local Council concerned. The Builder is to in this regard. An approved grease trap with lid is to be provided se sink. Top of trap to be slightly above the finished ground, or gis to the drainage line outside the building to be performed in the Water Supply and Sewerage Authority for sewered areas. A line in respect of this work by the builder.
☐ A SEPTIC TANK ☐ A HOLDING TANK ☐ OTH installed in accordance with the manufacturers speconcerned if any rock encountered during installations.	cifications and also with the requirements of the Local Authority
be approved PVC pipe laid to an even and reg	usting Proofwater drains to be allowed for and laid. Drains to jular fall so as to have a minimum cover of 100mm. Connec d discharge at least 3m clear of building into absorption pits of Local Council concerned. Allow for
	PLUMBER
RAINWATER PRODUCTS AS2179 AS2180 or B GUTTERS Zincalume Colourbond Other sufficient fall to downpipes All joints and angle recommendations DOWNPIPES Zincalume Colourbond Other	to be provided for all eaves set in position with les joined using brackets and sealant as per manufacturers
all gutters and connected to stormwater dr Gutters and recommendations	rainage fixed to wall surface using appropriate fittings of down pipes to be affixed in accordance with manufacturer
lapped and sealed at joints FLASHING Flash around chimney stacks exhaust	Imm wide and fixed to valley boards with edges beaded well till the sand wherever else required with approved lead or specific taken through full width of brick wall turned up internally and

3

SANITARY PLUMBER (All areas) Provide connections to laundry tubs kitchen sink vanities basins bath toilets and floor waster all in accordance with the requirements of water and sewerage authority

WATER SERVICE AS3500 Provide copper pipe from authorities main to boundary install water meter and connect to one garden hose cock yard gully kitchen bathrooms laundry toilets and hot water service. Internal piping to be Copper Cother all properly secured and finished with necessary flanges, cover the character of the character with t

plates etc. Provide for fixing of toilets vanities baths showers kitchen sink dishwasher and laundry tubs as shown on plan

FLOOR WASTES Provide drainers grates to all floors as required

HOT WATER SERVICE AS3500 Install and connect hot water tank as selected to all points. Piping to be lagged as required

GAS SERVICE The whole of the work to be carned out as per requirements of the Local Supply Authority. The Plumber is to be responsible for the gas service from fence alignment, including fixing of the meter and cover for same.

ROOFER

GENERALLY AS2050 AS2049 AS1684

TILE ROOFING Provide all roofs with first quality roofing tiles. Tiles may not be used on roofs having a slope less than 1.4.5. Where pitch of rafters is less than 1.2.75 terra cotta Marseilles pattern 1.3.7. Swiss pattern 1.3.3 concrete tiles are used the roof shall be sarked, with double faced aluminum foil covered reinforced fabric as per AS1736. Between 1.3.7 and 1.4.5 slope perimeter of roof shall be provided with an anti-ponding board or device to ensure that all water will be discharged into eaves gutter a clear space must be provided between edge of the device and the lowest side of the first batter so as to allow a free flow of water into the gutter.

Where one section of the roof discharges into a lower section the discharge is to be widely distributed, and the roof is to be fully sarked. Elsewhere where a spreader is used the roof shall be sarked from the point of discharge to eave with a minimum width of 1800mm approved sarking.

Cover ridges and hips with all capping starters and apex caps necessary and bed all capping and verge tiles on mortar and point with coloured cement mortar

☐TERRA COTTA TILES To be glazed and manufactured in accordance with AS2049 To be fixed to timber batters with approved fasteners every alternate tile all fixed in accordance with AS2050

CONCRETE TILES To conform to AS2050 and to be produced by manufacturers who provide a comprehensive guarantee and fixed in accordance with AS2050. Tiles are have an end lap of not less than 75mm. Where fixing holes are provided every alternate tile in each course is to be fixed to batters with approved fastener. Where holes are provided for nailing every tile in each third course is to be fixed with galvanised flat head nails at least 19mm into tile batter.

CORRUGATED FIBRE CEMENT ROOFING To conform to AS1611 and fixed in accordance with AS1639 Minimum pitch of roof is to be 1.8 for large corrugations and 1.11 where rafter length can be covered with a single sheet. Where pitch of roof is less than 1.6 in the case of large corrugations and 1.4.5 in the case of small corrugations, end laps shall be at least 225mm and sealed. Sheets to be fixed with non corrosive hex head self drilling screws fitted with neoprene ceiling washers to each run of battens with side and end laps or other approved method in accordance with manufacturers instructions. All necessary accessories are to be provided and the roof to be adequately bird proofed.

□CORRUGATED STEEL ROOF □Zincalume □Colourbond all sheets branded according to thickness. All necessary accessones to be provided and the roof is to be adequately birdproofed. Sheets to be fixed with 45mm non corrosive hex head self drilling screws fitted with neoprene ceiling washers to every alternate corrugation at ends and every fourth corrugation immediately. All hips and ridges are to be covered with screws and washers. Where pitch of roof is less than 1.4.5 minimum a material having effective vapour barner and thermal insulation qualities is to be fixed to the underside of ceiling joists where a level ceiling surface is to be provided. Where the ceiling is to follow the pitch of the rafters. Irrespective of the pitch of the roof the vapour/thermal barner is to be fixed to the underside of the rafters. Lead flashing not to be used with Zincalume steel.

☐METAL DECK. Metal deck roof with or without self locking ribs may be used provided it is fixed in strict accordance with manufacturers instructions (minimum slope 1 60)

☐SARKING To comply with AS1736 for pliable sarking & AS1903 + 1904 for reflective foil

ELECTRICIAN

To provide all labour and materials necessary for the proper installation of electricity service in accordance with the appropriate S.A.A. rules and the requirements of the Local Supply Authority. Arrange with Supply Authority for connection from mains to meter boards. All work to be in accordance with the S.A. Wiring Rules AS3006 as amended and the Insurance Council of Australia. Provide light points in positions shown on plan or to be determined. Approved switch for each point is to be mounted in positions to be indicated. Provided power points of flush type with 10amp. Switches in positions as shown on plan or to be determined.

METER BOX. Provide box to enclose meters in accordance with the Requirements of the Authority concerned SMOKE ALARMS AS3786 B C A PART 3.7.2 - Self contained smoke alarms are to be installed in suitable locations on or near ceiling in any storey. Between each area containing bedrooms and the remainder of the building where bedrooms are served by a hallway, in that hallway or in each bedroom and the alarms are to be connected to the consumer mains power and have a standby power supply

CEILING AND WALL FIXER

CEILING | FIBROUS PLASTER | GYPSUM PLASTER BOARD

FIBROUS PLASTER. To be manufactured and fixed in accordance with AS2185 AS2186 Normal thickness of 10mm and sheets to be as large as practicable well dired before fixing. Use galvanised clouts to affix to batters of 38 x 25mm timber spaced at 400mm centres nailed to ceiling joists. Use double batters at all joints running parallel to the batters not more than 225mm apart. Punch all clouts into plaster and stop. Scrim from above and set joints flush.

GYPSUM PLASTER BOARDS To be manufactured and fixed in accordance with Australian Metric Standards Nominal thickness of 10mm fixed with galvanised clouts or screw (specific made) and adhesive direct to ceiling joists at maximum 450mm centres or 13mm thick at 600mm centres clout head to be sunk and stopped with special cement. Jointing and fixing must be strictly to manufacturers recommendations.

CORNICES Provide comices to above ceilings neatly mitered (scrimmed and set) at all angles in full wail lengths where possible

FIBRE CEMENT Provide to laundry porch and attached W.C. Ceilings. Sheets of balanced pattern fixed to properly nogged and even surfaced solid backing.

WALLS GIBROUS PLASTER GYPSUM PLASTER BOARD Provide to walls of lounge dining bedrooms hall kitchen bathroom Provide all necessary vents and set flush with wall surface

FIBROUS PLASTER. Use full length sheets where practicable All vertical joints must be backed with double studs and reinforced with sisal and/or plaster. All joints to be left flush with surface. Provide 38 x 38 x 5mm galvanised iron strip to full length of internal angles. Fix sheets to wall framing at edges and intermediately with galvanised clouts punch below surfaces and stopped. Neatly set all angles.

Internal angles Internal angles from skirting to picture rail 19mm quad can be fixed

GYPSUM PLASTER BOARD Provide with full length sheets honzontally or staggered end joints to ceiling heights in accordance with manufacturers instructions. Fix with galvanised clouts or screws (specific made) and adhesive at 225mm centres to study. Punch heads of clouts below surface and finish as for ceiling. Internal angles from floor to ceiling to be set or may be covered by 25mm quad.

☐WET AREAS All walls to wet areas approved water resistant sheets shall be used. All internal wet areas to be completely waterproofed by a licensed applicator using propriety system designed for wet areas AS3740 (BCA 3.8.1) or as amended.

PLASTERER.
Cement Render
Float and Set all internal brick walts to be cement rendered to a minimum thickness of 13mm in accordance with A S metric code

WATERPROOFER

BATHROOMS TOILETS AND LAUNDRIES All internal wet areas to be completely waterproofed by a licensed applicator using a proprietary accredited product designed for wet areas. Membrane should be waterproof not water resistant. Area to be waterproofed should be clear of all obstructions and thoroughly cleaned prior to application of product. System must include upstands langles a turn should be provided at door thresholds. Membranes should be dressed into floor waste outlets. For concrete floors full shower base should be sealed. Where sheet flooring is in use the whole area should be waterproofed. Metal or other approved shower trays may be used in lieu of waterproof membranes to shower areas. All shower trays to be installed to manufacturers instructions.

ALL TO AS3740 or B C A PART 3 8 1

BALCONIES Balcony areas over internal habitable rooms to be treated under same guidelines as internal wet areas. Accredited products should be used and applied by licensed waterproofing contractor and the manufacturers instructions be explicitly followed.

Certificate showing type of membrane installation date name and license no of approved installer to be supplied on completion

TILELAYER

TILING A\$3958 & 3958 1

FLOORS Provide Dathroom and shower recess Deparate W C with floor tiles as selected WALLS Provide wall tiles to - bathroom 14m or shower recess 18m or

To enclose bath and hobs above kitchen sink and hot plate of stove and W.C. Finish at top and salient angles with glazed edge tiles. Provide vents to under bath. Fix recess fittings (If printed heights are not crossed out they are to apply). Where other types of lining are used refer to Internal wall linings."

PAINTER

GENERALLY All paints stains, varnishes and water colours to be properly mixed, be of approved brands and brought to job in unopened containers. Material used for priming is to be recommended by the manufacturers of the paints to be used. All finishing colours are to be chosen by owner. Do all necessary stopping after priming has been applied. Rub down all surfaces to a reasonably smooth finish prior to the application of each successive coat of paint.

EXTERNALLY Prime BEFORE fixing All dressed surfaces of all door and window frames, all external woodwork including underside and end of sills are to be primed before fixing

WOODWORK. After priming all exposed woodwork to be given one coat of undercoat and one finishing coat of approved paint.

IRONWORK Eaves gutters downbipes and service pipes and all wrought iron etc. to be cleaned and given one coat of approved primer and one good coat of oil paint or a paint recommended for metal work.

FIBRE CEMENT. Clean and prepare all external fibre cement surfaces for colouring then give two coats of approved paint.

INTERNALLY

WOODWORK, all exposed woodwork to be prepared and given one undercoat and finished with two coats of approved paint or wood stain to manufacturers recommendation

FIBROUS PLASTER AND FIBRE CEMENT. To be prepared and given two coats of approved paint

GYPSUM PLASTER BOARD. To be prepared and given two coats or approved paint

CEMENT RENDER to be given one coat sealer and two coats approved paint

GLAZIER

ALL WINDOW SASHES AND LIGHTS TO BE GLAZED. All glass is to be back puttied, well sprigged into primed or oiled rebates and weather puttied. Glass is to be free of defects and of the weights and sizes set out below AS1288 to apply or PART 3.6 B.C.A.9.6 Housing Provisions.

MAXIMUM SIZE OF SHEETS	GLASS THICKNESS (mm)
560 x 560mm or 760 x 460mm	2
700 x 700mm or 1000 x 500mm	2
760 x 760mm or 1250 x 600mm	3
900 x 900mm or 1500 x 700mm	3
1170 x 1170mm or 1500 x 970mm	4

Clean all glass on completion

VARIOUS TRADES

BRICK VENEER TIMBER SHRINKAGE GAPS _____ In two storey construction where timber with a low shrinkage is used in each floor framing 20mm clear space shall be provided to the underside of first floor window sills. Where unseasoned hardwood is used in each floor framing the above clearance shall be increased by 50% in concrete slab-on- ground two storey construction window sills on first floor require a space of 10mm, the brick veneer shall be kept 10mm below roof frame. In two storey construction where timber with a low shrinkage is used in each floor framing the Brick Veneer shall be kept 20mm clear below roof framing on the first floor. Where brick gables are to be provided roof framing shall be kept to a minimum of 20mm clear for two storey.

unseasoned hardwood is used in floor framing the clearances above shall be increased by 50%. For slab-on-ground two storey construction a clear space of 10mm shall be provided in the first floor.

EXTERNAL CLADDING

☐ MENTUE ABONKO2 Mestueinosida A	with promes as s	specified by Aus	Silaliali Stallualu	is are to be select	Ren Millia
maximum moisture content of 15% in					
minimum 16mm and fitted with necessary					
bearing points. All cladding to be prime of	oated all round	prior to fixing	Where vertical b	oarding is used	it is to be
fixed at not more than 600 mm centres ar	nd approved sar	rking is to be pl	aced immediatel	y behind the boa	erding and
fixed to the framing					
☐ FIBRE CEMENT ○ OTHER EXTERN	VAL SHEET		All fixed as s	hown on plan ar	nd in strict
accordance with manufactures specification	ons			•	
,					
ENCLOSURE OF BATHS	_A bath shall n	ot be enclosed	unless it has a t	flange especially	made for
that purpose and complies with the follows	ng conditions				

- 1 There shall be free air space all around between the bath and the enclosure
- The floor of the bathroom shall extend throughout the enclosure. That portion of the floor within the enclosure shall be not less than 12mm higher than the main portion of the bathroom floor snall be graded to a suitable floor grating and further provided with an outlet pipe through the niser to the main portion of the bathroom floor.
- 3 All holes made in walls or the floor shall be properly closed and outlet pipes shall have suitable vermin proof gratings
- The nsers shall be of enameled iron terra cotta concrete bricks or composition slabs covered with glazed tiles or other approved impervious material. In a timber framed structure the nsers may consist of wooden membranes not less than 75mm x 50mm, rendered vermin and moisture proof by a covering of fibre cement sneeting or other approved impervious material applied both internally and externally except in the case of a riser which may be left unlined internally if so approved.
- Where the floor of the bathroom extends into the enclosure two ventilators at least 150mm x 75mm fixed in approved positions shall be furnished to ventilate the enclosed space and such ventilators shall be made of metal terra cotta stoneware concrete or other approved material and shall be rendered vermin-proof
- Where the bath abuts against a wall or walls the finishing material of the wall shall overlap the upstaged of the bath and the joint shall be made watertight.

SUSHFIRE PRONE AREAS BICIA PART 3.7.4 where a building is to be erected in a FIRE PRONE AREA AS3959 (Construction of buildings in bush fire prone areas) is to be followed

CONCRETE MASONRY WALLS

GENERALLY AS3700 B C A PART 3 3 2 - The masonry Contractor shall supply all labour materials and equipment necessary to complete the concrete masonry walls of this project in accordance with plans and specifications. This work shall be properly co-ordinated with that of other trades. All applicable local laws ordinances and codes shall be fully complied with All materials, workmanship and construction practices shall be of a standard not less than shown on plans or specified hereunder.

CARE OF MASONRY UNITS masonry units shall be stacked so as to be clear of the ground and in wet weather covered with waterproof sheeting or otherwise kept dry. At the end of each days work the top of the wall shall be protected from becoming excessively wet. The masonry units shall not be dampened prior to laying and shall be

laid in a dry state

PROPERTY SPECIFICATIONS Mortar shall comply with AS3700 in all respects, as it applies to property specifications. Locally available plasticizers may be used when approved and where tests show the mortar meets.

the requirements of these specifications

MORTAR PROPORTIONS Above damp proof course level 1 1 6 (Cement Lime and Sand)
INTERSECTING BEARING WALLS Intersecting block bearing walls should not be tied together in a masonry
bond except at corners. Instead one wall should terminate at the face of the other wall with a control joint at that
point. For tying non-bearing block walls to other walls approved non-corossive ties to be placed across this joint
between the two walls. The ties are to be placed in alternate courses. When one wall is constructed first the ties are
to be placed in the wall allowed to project to be built in to the mortar joint of the second wall. Where the two walls
meet, the vertical joint is to be raked out to a depth of 15mm if it is exposed to view in the finished building and
approved filter inserted into the recess.

CONTROL JOINTS Control joints shall be located where shown and as detailed on the plans. Control joints shall form a continuous vertical break from top to bottom of wall or from bond beam. Provision shall be made for

adequate lateral stability

(detail on plans) Joint shall be filled with mortar raked back 15mm and pointed up with a non-hardening plastic filler. Plastic filler shall be tooled to match jointing. No reinforcing shall be used across a control joint. FOOTINGS the size and proportion of footings shall be based on an assessment of the load to be carried the bearing capacity of the foundation material and any other factors which may affect the stability and carrying capacity of the footing. All to the approval and or design of supervising structural engineer. STANDARD FOOTINGS for general construction the footings as specified on page 3 may be used if no unusual

ground conditions exist

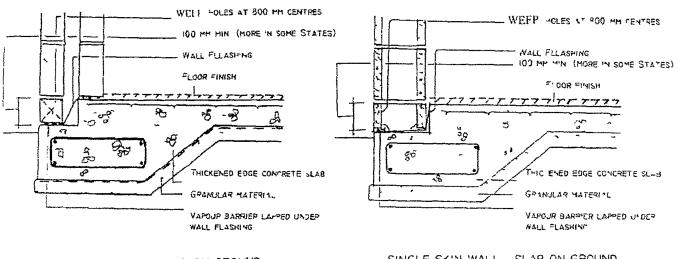
JOINT REINFORCEMENT B C A PART 3 3 2.3 Joint reinforcement shall be used at all window and similar openings in the first two bed joints under the sill except that it may be omitted when a bond beam is provided in this position. The joint reinforcement shall extend at least 500mm beyond the reveals or to the end of the wall whichever distance is lesser. Joint reinforcement used generally to control cracking throughout a wall shall be laid in the bed joints with vertical spacings not exceeding 600mm, except that it may be omitted within 600mm of a structural diaphragm or bond beam.

BRACING DURING CONSTRUCTION Masonry walls constructed in locations where they may be exposed to winds during erection shall not be built higher than ten times their thickness unless adequately braced or until provision is made for the prompt installation of permanent bracing. Back filling shall not be placed against foundation walls until they have been braced to withstand horizontal pressure or as required by supervising structural engineer.

DECORATIVE SCREEN WALLS Screen walls used for decorative purposes shall carry no vertical loads other than their own weight. They shall be adequately anchored to suitable horizontal or vertical structural members in order to resist wind and any other lateral loads

WEATHER PROOFING B C A PART 3 3 4 - All single leaf concrete masonry walls exposed to the weather or below ground shall be adequately weather-proofed or water-proofed, using an approved product specifically designed for the purpose and applied in accordance with the manufacturers specifications

VAPOUR BARRIER. To be pigmented polythene sheet not less than 0 2mm thick taped and sealed at all joints



CAVITY WALL - SLAB ON GPOUND

SINGLE SKIN WALL SLAB ON GROUND

The concrete block supplement is to take precedence over the specification if it conflicts in any way and all other parts of the specification are to be adhered to

COMPLETION

The building is to be completed in every trade. Sashes and doors to be eased, locks oiled and all plant, surplus building materials and rubbish removed from the site. Gutters and drains are to be cleared and he building generally to be left clean and fit for occupation. The Builder is to jurnish the Owner with -

- Notification of Completion
- Certificate of Compliance re plumbing & drainage
- All keys for all doors
- It is the responsibility of the Builder to arrange any inspections necessary by council water poard or Lending Authorities

WORK BY OWNER
WORK BY OWNER Work to be performed and completed by the owner and releases the builder from any responsibility and/or expense from any such work
Signed by Owner

SCHEDULE OF ALLOWANCES

The builder is to allow the prime cost amounts set out in this schedule. All amounts are retail prices and do not include the cost or cartage, freight, fixing or fitting, all of which is to be done and paid for by the builder as part of this contract.

Li Daui	<u> </u>
☐ Vanity unit	\$
☐ Wash basin	\$
☐ Towel rail	\$
	\$
☐ Bathroom mirrors	\$
☐ Shower screen	\$
☐ Exhaust fan 200mm ☐ Bathroom ☐ Kitchen	\$
☐ Exhaust hood over hot plates	\$
☐ Kitchen cupboards including sınk	\$
☐ Stove/walloven/hotplates ☐ Electric ☐ Gas	\$
☐ Set of wash tubs complete ☐ Single ☐ Double	\$
☐ WC suites	\$
	\$
	\$
	\$
☐ Entry door	\$
☐ Security Door	\$
☐ Wall and floor tiles	s
	\$
	\$
☐ Ceiling Fans	\$
	\$
	\$
☐ Dishwasher	\$
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ADDENDA
THIS IS THE SPECIFICATION REFERRED TO IN THE CONTRACT BETWEEN OWNER AND BUILDER AS SHOWN BELOW
Witness Signed (Owner)
Witness Signed (Builder)
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