

Construction Certificate RECEIVED MONA VALE Determination

issued under the Environmental Planning and Assessment Act 1979 Section 109C (1) (b) 81A (2) and 81A (4)

CUSTOMER SERVICE

1 MAR 2010

Certificate No. 2010/3681

Council	Pittwater
Determination	Approved
Date of Issue	26 February 2010
Subject land	
Address	14 Bassett Street, Mona Vale
Lot No DP No	Lot 23 Sec B DP 6195
Applicant	
Name	Mr Peter Cordony
Address	14 Bassett Street, Mona Vale NSW 2103
Contact No	0408 437 482
Owner	
Name	Mr Peter & Mrs Margot Cordony
Address	14 Bassett Street, Mona Vale NSW 2103
Contact No	0408 437 482
Description of Development	
Type of Work	Construction of a secondary dwelling & boundary wall
Builder or Owner/Builder	
Name	Margot Cordony
Contractor Licence No/Permit	Owner Builder Permit No 373603P
Value of Work	
Building	\$48,000 00
Attachments	
Copy of completed Construction	Certificate Application Form
 Pittwater Council receipt no 27! 	5884 for payment of Long Service Levy
BASIX Certificate no 2416115	dated 7 April 2009

Suite 13/90 Mona Vale Road Mona Vale NSW 2103 PO Box 326 Mona Vale NSW 1669 ph 9999 0003 fax 9979 1555 email info@insightcert com au web www insightbuildingsertifiers com au ABN 54 115 090 456

PRVC - \$30

R-276371

1/3/10

(FRI)FEB 28 2010 7 00/8T 7 00/N: /808800418 P

18 February 2010

Demolition Compliance Statement

Address: 14 Bassett Street, Mona Vale

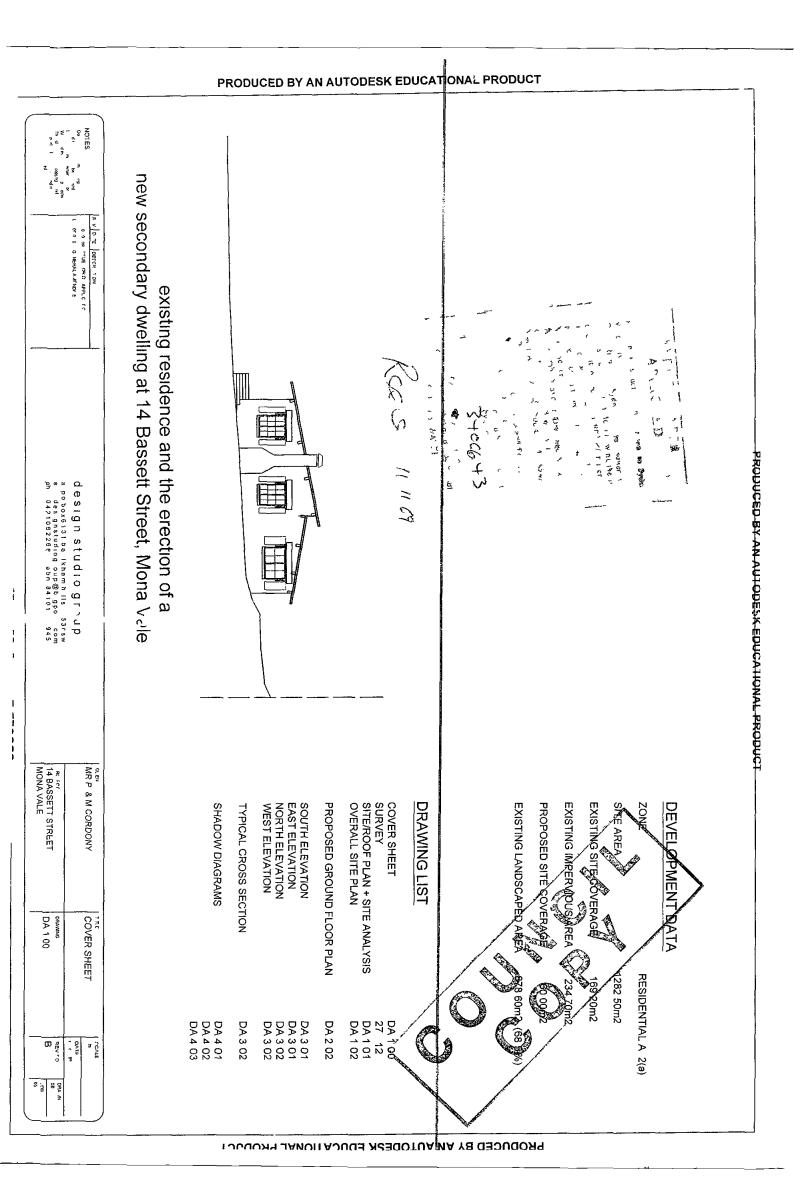
Reference: DCS/01

Prepared by:

I confirm all demolition that will be conducted as part of the development at the above address will comply with the requirements of AS2601-2001 *The demolition of structures* Including all Work Cover NSW requirements that are applicable

2) Cardon





Plans & Specifications certified

The development is to be carried out in compliance with the following plans and documentation listed below and endorsed with *Insight Building Certifiers* stamp

- Architectural Plans & Construction Specification including Car Parking Facilities reference no CC1 01 Rev C CC2 02 Rev D both dated 12 November 2009 & DA3 01 Rev C DA3 02 Rev C both dated 18 August 2009 all prepared by Design Studio Group
- Structural Details of proposed Secondary Dwelling, reference no 00915 drawing no S-01, revision
 A prepared by Atomic Drafting Pty Ltd endorsed by Grasso Consulting Engineers Pty Ltd dated 23
 November 2009
- Stormwater Management Detail reference no 08/157 drawing no H-DA-01, rev B prepared & endorsed by itm Design Pty Ltd dated 27 April 2009
- Demolition Compliance Statement reference no DCS/01 prepared by Peter Cordony dated 18
 February 2010
- Sydney Water approval dated 11 November 2009

Certificate

I hereby certify that the above Plans documents or Certificates satisfy

- The relevant provisions of the Building Code of Australia
- · The relevant conditions of this Development Consent

and that work completed in accordance with the documentation accompanying the application for this Certificate (and any modifications as ventied by me and shown on that documentation) will comply with the requirements of the Environmental Planning & Assessment Regulation referred to in Section 81A(5) of the Environmental Planning & Assessment Act 1979

Signed

Date of endorsement Certificate No

2 6 FEB 2010 2010/3681

Certifying Authority

Name of Accredited Certifier

Accreditation No

Accreditation Authority

Contact No

Stephen Pinn BPB0326

Building Professionals Board

(02) 9999 0003

Address 13/90 Mona Vale Road, Mona Vale NSW 2103

Development Consent

Development Application No

Date of Determination

N0168/09

3 November 2009

BCA Classification

1a & 10b

Certificate number 2416 (15)

Certificate confirms that the proposed development will meet he NSW government's requirements for sustainability. If it is built in accordance with the formulaments set out below. Terms used in this certificate; or in the commitments have the meaning given by the document emitted BASIX Definitions' dated 05/17/2008 published by the Department of Planning: This document is available at www.basix.nsw.gov.gu.

Diffector-General Diffector-General Diffector-General 100 published 200 published by the Department of Planning: This document is available at www.basix.nsw.gov.gu. s available at

April 2009

NSWGOVERNMENT

Department of Planning

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9.SIX Department of Managa

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ANAMO (SERIA MENERGIA	The applicant must construct each retrigerator space in the development so that it is "well ventilated" as defined in the BASIX definitions. The applicant must install a fixed outdoor clothes diving line, as part of the development.	Oner The applicant must install a gas cooktop & electric oven in the kitchen of the dwelling.	The applicant must install a window and/or skylight in the kitchen of the dwelling for natural lighting. The applicant must install a window and/or skylight in 4 bethroom(s)/follet(s) in the development for natural lighting.	Kitchen: no mechanical ventilation (le 'natural), Operation control, rya Laurdry: natural ventilation only, or no laurdry: Operation control; rya	Verifiation The applicant must install the following exhaust systems in the development At least 1 Bathroom no mechanical ventilation (ie. natural): Operation control rula	The living areas must not incorporate any heating system, or any ducting which is designed to accommodate a heating system. The bedrooms must not incorporate any heating system, or any ducting which is designed to accommodate a heating system.	The applicant must install the following cooling system, or a system with a higher energy rating; that least 1 living arest ceiling fans, Energy rating; ride: The applicant must install the following cooling system, or a system with a higher energy rating, in at least 1 bedroom, ceiling fans; Energy rating, ride.	To: water The applicant must install the following hot water system in the development, or a system with a higher energy rating: gas retarnaneous with a performance of 3 stars.		
President Constitution 2 0 2	elopment so that it is "well ventilate part of the development	tichen of the dwelling.	n of the dwelling for natural lighting m(s)/follet(s) in the development to	rol. n/a	levelopment seration control rula	y ducting which is designed to according which is designed to according which is designed to according	em with a higher energy rating; in	levelopment, or a system with a hi		
Configuration (A) 2416115	od" as defined in the BASIX		א, natural lighting			ommodale a neating system mmodale a heating system	at least 1 living area; ceiling fans, at least 1 bedroom, ceiling fans;	gher energy rating: gas		
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Surname (if person) or Company/Organisation name	CORDON'Y	CUSTOMER COPY
Given names (if person) POSTAL ADDRESS No and street or PO Box	PEFIER 14 BALSETTIST	CARD NO 407220-609 EXPIRY DATE 11/11 CREDIT 008868 PURCHASE 169 68 TOTAL AUD169 68
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Town/suburb	MONALLALIE	
State	N.5W Postcode 22 1013	_
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Local Council Area	PITTURT OF	
1 DA/CC/CDC No Estimated value of work (see note on back)	163/09	- Le
¹ If you have provided a CC abov	ve pleas= provide DA number here	
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APPLICATION FOR A CONSTRUCTION CERTIFICATE

	Construction Certificate
999-CZOPY	Modified Construction Certificate
1. Applicant's details It is important that we are able to contact you if we need more infor	mation. Please give us as much details as possible
Mr. X Mrs Ms Or Other	
Given Names (or ACN) Eamily Name (o	r Company)
Postal, Address (we will post all mail-to-this address)	(DO N/)
14 BASSETT ST.	
MONA VALE-	- Post Code 2/03
Daytime telephone Alternate no	Mobile no.
0408 437 482	MOS 437 482
2. Owner's consent	
Every owner of the land must sign this form . If the owner is a composition of the property is a unit	under the strata title or a lot in a community title, then in addition
to the owners signature the common seal of the body corporate mus signed by the Chairman or Secretary of the Owners Corporation or t	
Owner(s)	
Address	
14 BASSEH St. M	ONA /alo. 2/53
As owner(s) of the land to which this application relates. L/We conse	
Gentitying Authority and/or Accredited Certifier to enter the land to Signature(s)	o carry out inspections relating to this application.
Without the owner's consent we will not accept the application. This	
on the owner sibehalf as the owner's legal representative, you must si evidence (e.g. power of arrorney, executor trustee company afreefor	ate the nature of your legal authory and a stack documentary
3. Location of property	
Unit/Street no Street name	き/パリー スポー
14 Basself 1	
Suburb Mark Valo.	Post code Post c
= Legal Property Description (these details are shown on your nate are no Lot no. 1	es prop. vv. eeds etc)
23 See B DP 6195	

4. Description of work	
What type of work do you propose to carry out? Please describe briefly everything that you want approved.	The state of the s
Secondary Develing on per b.	lan .
Secondary Develing on per for. B boundary wall	·
	·
Estimated cost of the development or contract price may be subject to review.	
Estimated cost of work 4 48 MO,00	
6. Development Consent	
Council Consent no November 189 Date of Determina	ition 3 // 2009.
7. Building Code of Australia classification	
This can be found on the development consent	on la 106
Tt known, to be completed in the case of residential building work.	
Name Name BULDING FILL LICENTE MARBOT CORDONY	encl ike No. 165881 c
Owner/builder permit no -/30	40 373603P
9. Applicant's declaration	
I apply for a Construction Certificate to carry out building works as describe above Development Consent is valid and that no building works associated with	
best of knowledge, all the information in this application and checklist is true	and correct
Signature	Date
	22. 2.2010

SUBMISSION REQUIREMENTS

GENERAL Are the plans submitted with the Construction Certificate Application in accordance with the Development Consent? Have all the conditions of Development Consent relating to the issue of the Construction Certificate been fully complied with? Yes X No 🔲 If you have answered NO to either of the above questions, then you will need to speak with the Accredited Certifier BEFORE LODGING YOUR APPLICATION ALL PROPOSALS (has the following required information been submitted?) Not In the case of an application for a Construction Certificate for Yes No Applicable building work Three (3) copies of detailed architectural plans and specifications K The plan for the building must consist of a general plan drawn to a scale not less than 忆 1 100 and a site plan drawn to a scale not less than 1 200. The general plan of the building is to show a plan of each floor section a) b) show a plan of each elevation of the building show the levels of the lowest floor and of any yard or unbuilt on area belonging to that C) floor and the levels of the adjacent ground d) indicate the height design and full construction details e) indicate the provision for fire safety and fire resistance (if any) Where the proposed building work involves any alteration or addition to or rebuilding of an \Box 沤 existing building all copies of the general plan are to be coloured or otherwise marked to the satisfaction of the Council to adequately distinguish the proposed alteration addition or rebuilding with a separate letter listing the proposed changes being submitted 3 copies of a specification X to describe the construction and materials of which the building is to be built and the method of drainage sewerage and water supply state whether the materials proposed to be used are new or second hand and give b) particular Where the proposed building work involves a modification to previously approved plans and П \mathbf{x} specifications the general plans must be coloured or otherwise marked to the satisfaction of the Accredited Certifier to adequately distinguish the modification If the proposed building work involves a modification to previously approved plans and 图 specification which were subject of a Development Consent has the original Development Consent been modified by Council? Except in the case of an application for or in respect of domestic building work П V a list of any fire safety measures that are proposed to be implemented in the building a) or on the land on which the building is situated and if the application relates to a proposal to carry out any alteration or rebuilding of or addition to an existing building a separate list of such of those measures as are currently implemented in the building or on the land on which the building is situated. This list must specify the standard of design of each of those fire safety measures to which they were originally installed This list must describe the extent capability and basis of design of each of the

HOME BUILDING ACT 1989 (as amended) OWNER/BUILDER REQUIREMENTS

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Applicants for work at a residential property with a value of work over \$12 000 require insurance as specified in the Home Building Act 1989

Copy of signed BASIX Compliance Statement

Copy of BASIX Certificate & Schedule of BASIX Commitments

All other documentation to satisfy conditions of Development Consent

measures concerned

Owner Builders require Property Owner Builder's Permit issued by the Department of Fair Trading for all projects over \$5 000. In addition to this permit all projects valued in excess of \$12 000 may also require a contract of insurance under the provisions of the Home Building At 1989 as amended. This requirement will take effect should the property owner offer the property for sale in the ensuing period of 7 years.

Enquiries on any matters relevant to this section should be taken up with the Department of Fair Trading at Level 21 Astra House 227 Elizabeth Street Sydney (ph. 133220)

LONG SERVICE LEVY (applies to all classes of buildings)

A Long Service Levy at 0 35% of the cost of works is payable on projects valued \$25 000 or more. This sum can be paid directly to the Long Service Payments Corporation or to Council acting as an agent to the Corporation. Partial exemption from the levy may be granted to non-profit organizations, churches and to owner/builders. The levy may also be paid in instalments. Application forms for these exemptions are available from Council but all enquiries in this regard should be address to the Long Service Payments Corporation.

THE CONSTRUCTION CERTIFICATION CANNOT BE ISSUED UNLESS THE LONG SERVBICE LEVY AND HOME BUILDING ACT 1989 INSURANCE (APPLICABLE TO RESIDENTIAL PROPERTIES) HAVE BEEN PAID OR EVIDENCE OF THE EXEMPTION PROVIDED TO COUNCIL

PARTICULARS OF THE PROPOSAL						
What is the area of the land (m²)?	Gross floor area of building (m2) as proposed					
1292n2	60m²					
What are the current uses of all or parts of the building(s)/land?	Location 14 basself St Mona Chle					
Lendahid	Use Kendurbid					
Does the site contain a dual occupancy?	What is the gross floor area of the proposed addition or new building (sq metres)?					
What are the proposed uses of all parts of the building(s	Number of pre-existing dwellings					
Revidential						
Number of dwellings to be demolished	How many dwellings proposed?					
None	2					
How many storeys will the building consist of?	Will the new building be attached to the existing building?					
	Will the new building be attached to any new building? Na					

MATERIALS TO BE USED

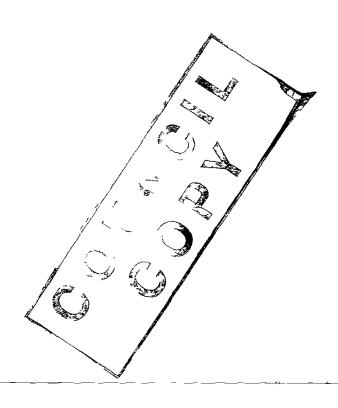
The following information must be supplied for the Australian Bureau of Statistics

Place a tick ($\sqrt{\ }$) in the box which best describes the materials the new work will be constructed of

WALLS Brick veneer	FLOOR Concrete	ROOF Aluminium	FRAME Timber	
Full brick	Timber	Concrete	Steel	
Single brick	Other	Concrete tile	Other	
Concrete block	Unknown	Fibrous cement	Unknown	
Concrete/masonry		Fibreglass		
Concrete		Masonry/terracotta shingle		
Steel		Tiles		
Fibrous cement		Slate		
Hardıplank		Steel		
Timber/weatherboard		Terracotta tile		
Cladding aluminium		Other		
Curtain glass		Unknown		
Other				
Unknown				

CC 2010/3681

SPECIFICATION OF BUILDING WORKS



SOUTHspec revision 19

BUILDING TYPE			
BUILDING TIPE	SINGLE DWELLING	VILLA OR TOWNHOUSE	INDUSTRIAL BUILDING
	DUAL OCCUPANCY	GARAGE	OFFICE BUILDING
MED	IUM DENSITY UNITS	RETAIL BUILDING	ADDITION 🗆
	FARM SHED		. 🗆
CONSTRUCTION	CAVITY BRICK	TIMBER FRAMED	A A C BLOCK/PANEL
	BRICK VENEER	STEEL FRAMED	MASONRY BLOCK
	SINGLE BRICK	STEEL CLAD	CONCRETE PANEL
			F/C SHEET
ADDENDUM			
;			
}			

If any difference in requirements exists between this specification and the Building Code of Australia or relevant Standard that may apply to the construction of any building nominated by this specification then the requirements of the Building Code of Australia and/or the appropriate Standard shall take precedence over this specification for any construction

DISTRIBUTORS

SOUTHspec PUBLISHING P O BOX 3381 NORTH NOWRA NSW 2541

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SPECIFICATION

© SOUTHspec Publishing

FOR THE ERECTION AND COMPLETION OF BUILDING AT LOT No 23
ADDRESS 14 Daniel n. Heat

Street Pitturatur

ADDRESS 14 DOWNTY N. Street	TOWN/AREA MONA VALE
MUNICIPALITY SHIRE / CITY Yith water	POST CODE 203
FOR Peter Lordony	Hereinafter called the Proprietor
The builder must ensure that relative drawings plans and construction comply with the Building Code of Australia and that the work and services performed by the Builder are to the	prescribed construction the Local Government Act the satisfaction of the Proprietor and Lending Authorities
INSPECTION NOTICE This is to apply only if inspections are required by the Lending Authority. The building is to be following stages of construction and the Builder is to give the Lending Authority and Owner required.	at least (2) clear working days notice that inspections are
 When trenches for footings have been prepared or rock surfaces scabbled reinforcement and depth pegs have been placed in position just prior to placing trenches have been inspected and approved by the Society Representative On completion of floor wall and roof framing with noggins in position and veneer was a construction. 	of concrete Footings must not be commenced until the
and walf linings and sheetings are secured When the internal walf coverings have been secured and fixing out commenced been inspected and approved	
4 ON COMPLETION OF BUILDING The owner is cautioned that if works have ad- being given inspections made and unsatisfactory conditions are discovered later may be varied by the lending authority REGULATIONS AND NOTICES	vanced beyond these stages without the requisite notices the offer of a loan or the terms and conditions of a loan
The builder is to comply with the Building Code of Australia as amended and as applicable being constructed and the requirements of legally constituted Authorities for local Govern obtain all permits and pay all fees required by such Authorities If any difference in require Code of Australia or relevant Standard that may apply to the construction of any building no Building Code of Australia and/or the appropriate Standard shall take precedence over components design factors and construction methods comply with the Performance Require authorities as an alternative as per the Deemed to Satisfy Provisions INSURANCE	ment and/or Services The Builder is to give all notices ements exists between this specification and the Building minated by this specification then the requirements of the this specification for any construction. Where materials
Insurance of the works against fire will be effected as nominated in the Building Contract against Public Risk and arrange indemnification in respect of his liability under the Workers as applicable VISIT THE SITE	Compensation Act Work Cover and/or other regulations
Builders tendering are to visit the site and satisfy themselves to the nature and extent of the the execution of the said works. No amount above the accepted price will be allowed becausumptions made LABOUR AND MATERIALS	work the facilities available and the difficulties entailed in ause of work arising due to neglect of this precaution or
The Builder is to provide all materials labour fittings and plant required to construct an specified and workmanship in each trade shall be performed by tradesmen of that particular t SET OUT	rade and in conformity with current good building practice
The Builder shall be responsible for the accuracy and clear delineation of the site boundaries set out and maintain the works in accordance with the drawings. Figured dimensions to be ta PLANS AND SPECIFICATIONS.	es and location of the buildings there on The Builder is to ken in preference to scale
Any work indicated on the plans and not in the specification or vice versa and any item obviously necessary as part of proper construction and/or finish is to be considered as so contract. Any variations to plans or specifications are to be agreed and recorded by the propri PLANS ON JOB.	shown or specified and is to be duly done as part of the letor and the builder/contractor
The builder must at all times maintain on the job a legible copy of the plans and specific concerned or Principal Certifying Authority STANDARDS	
Where an Australian Standard (AS) or Australian New Zealand Standard (AS/NZS) is nominal latest revision of that Standard unless the Building Code of Australia references a different revision of that Standard unless the Building Code of Australia references a different revision of that Standard unless the Building Code of Australia references a different revision of that Standard (AS) is nominal to the standard (AS) or Australian New Zealand Standard (AS/NZS) is nominal to the standard (AS) or Australian New Zealand Standard (AS/NZS) is nominal to the standard (AS) or Australian New Zealand Standard (AS/NZS) is nominal to the standard (AS/NZS) is nominal to the standard (AS) or Australian New Zealand Standard (AS/NZS) is nominal to the standard (AS/NZS) is not the standard (AS/NZSS) is not the standard (AS/NZSS) is not the standard (AS/NZSS) is not the standard (AS/NZSSS) is not the standard (AS/NZSSSS) is not the standard (AS/NZSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSS	ated in this specification then that nomination refers to the vision
EARTHWORKS AND EXCAVATIONS BCA part 3.1 All earthworks shall be designed and constructed in accordance with the guidelines of AS underground piping or surface diversions shall be in accordance with AS/NZS3500	
All siteworks shall be in accordance with the Environmental Planning and Assessment Act at safeguarding excavations backfilling preventing soil movement and supporting neighbouring according to the soil classifications BCA part 3 1 1 and part 3 1 2 FOOTINGS AND PIERS BCA part 3 2 2	nd Regulations for siteworks for the erection of a building ng buildings Drainage requirements must be determined
Excavate for all footings piers etc to dimensions and minimum depth shown on plans or of bottoms and even bearing throughout similar strata. Bottoms of excavations to be level at necessary to receive concrete floors where shown on ground level.	nd stepped where necessary Grade fill and ram where
At completion of foundations all excavations to be filled well rammed to ground level and swater to be effectively dealt with and diverted clear of the building Excavate for and lay agriother sections of foundations as may be necessary and/or directed ROCK EXCAVATIONS	surplus soil spread as directed. All seepage and soakage icultural drains to back of walls retaining earth and to any
Should rock of any type be encountered in excavation of the works the cost of its removal is for at a rate per cubic metre as indicated in the schedule of rates. The Proprietor is to be notificated in the schedule of rates.	to be considered as an extra to the contract and charged ied when rock is encountered in excavations
CONCRETE - BCA part 3 2 3 All structural concrete shall be ready mixed and in compliance with AS3600 and unless oth grade	•
The concrete shall be supplied by an approved firm and delivery dockets shall be kept on the concrete for minor works where strength of concrete is not critical such as paving on solid gr 15MPA if unreinforced and 20 MPA if reinforced Alternatively such concrete may be mixed or ratio can be controlled so that the required compressive strengths can be obtained All concrete work shall comply with the AS3600 Maximum slump shall be 80mm unless oth handled and placed to avoid segregation and shall be adequately compacted Reinforcing in grade unless otherwise specified	ound may have a minimum compressive strength of in site where the aggregate proportions and water/cement letwise specified by Engineer. Concrete shall be carefully.
FOOTINGS BCA parts 3 2 3 3 2 4 and 3 2 5 Where sites have soils or foundations of reactive nature or problem sites footings shall be case of known highly swelling soils or other unstable soils special precautions may have footings. In the case of concrete suspended floors to first floor it will be necessary for sitengineer. Footing sizes to be as per AS2870 part 1.	IN he taken in the decide and conctniction of concrete
At completion of footing excavations fill to the underside of floor slab with approved hardcore may be carried under minor interior footings if required	ore so as to provide a minimum depth of 100mm Such

Page 1

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TOWN/AREA MONA VALE

DP No

TERMITE PROTECTION BCA part 3 1 3

Where the building is being erected in a prescribed termite area and protection is required by regulation of local government or state authority then protection against subterranean termites shall be installed in accordance with AS 3660. Details of method of protection to be used shall be submitted where required prior to commencement of building works. Written certification signed by the installer, that the method used and the manufacturers specification complies with the Australian Standard shall be provided to the relevant authority and owner where required. A durable notice must be permanently fixed in a prominent location in the building prior to its occupation indicating. The method and date of installation of the system and the need to inspect and maintain the system on a regular basis. Where a chemical barrier is used the life expectancy as listed on the National Registration Authority label and recommended date of renewal. Note that AS3660 and BCA lists the minimum acceptable level of protection only Owners and/or builders may specify and install additional protection if desired.

PATHS (see AS 3727 for guide to residential pavement construction)
Provide paths as indicated on plans. Concrete to be as previously specified and surfaced with wooden float. Excavate for and lay paths to even grades true lines and curves. Car tracks to be a minimum of 100mm thick and paths a minimum of 75mm. Provide expansion joints in paths at a maximum spacing of 1200mm with bitumen impregnated felt joining strips the full thickness of concrete with tooled V joints above same.

CROSS SECTION DIMENSIONS OF REINFORCED CONCRETE FOOTINGS for buildings with timber framed floors for sites classified a or s according to AS2870

			e (width x depth)
CONSTRUCTION OF WALL	Normal thickness of wall to be supported (not more than)	For stable soil foundations Class A	Other foundations not subject to significant movement Class S
Brick single storey with wall height not exceeding 4200mm excluding any gable	mm	mm	mm
	270	400x300	400X400
	110	300x300	400x400
Brick two storey with external wall height not exceeding 7200mm excluding any gable internal wall height not exceeding 7200mm use 11TM reinforcement Top and Bottom	270	400x400	400×500
Brick veneer single storey with wall height not exceeding 4200mm excluding any gable Brick veneer two storey with external wall height not exceeding 7200mm excluding any gable	110	300x300	300x400
	110	300x300	300x400
Timber frame single storey – foundation walling measured from the top of the strip footing Up to 1500mm height Exceeding 1500mm and up to 3000mm height	110	300x300	300x400
	110	300x400	300x400

REINFORCEMENT FOR STRIP FOOTINGS	Width of Strip Footing	Minimum number of main wires per layer using 8TM or 11TM fabric	Minimum number of 10mm dia bars per layer	Minimum number of 12mm dia bars per layer
	300	3	3	3
	400	1 4	! 4	1 4

Where wall thickness exceeds as specified above increase footing width to maintain the offset and provide additional bar or bars so that bar centres do not exceed 200mm or an additional width of trench mesh maintaining in all cases the required concrete cover

CONCRETE FLOORS BCA parts 3 2 5
Provide concrete floors where indicated on plans. Where not specifically detailed floors are to be a minimum of 100mm thick reinforced with No. F72
hard drawn reinforcing flathor set 32mm below top of concrete. Floor slabs to be full thickness and free from grooves and ndges. Finish surface in one operation as required for titing or otherwise to fine finish with float or steel trowel and sponge. Thickness of floors shall be maintained under titing recesses in all cases.

Note that in Climate Zones 6 7 and 8 the edges and underneath some concrete slab construction may require thermal insulation.

INTEGRAL FLOOR SLABS AND SLAB ON GROUND BCA part 3 2 5
Grade whole area occupied by floor to a minimum depth as required to remove top soil and grass roots etc. Determine level of top of floor to habitable rooms a minimum of 150mm above highest point of adjacent proposed external ground level (adjust for fill or general excavation as required) or as otherwise required by Local Council. The external finished ground surface must be graded to drain water away from the building at a minimum slope away of 50mm over the first 1 masper BCA Parla 1 2 3

Excavate for perimeter and other main footings to minimum depths as shown on Engineers drawings or to depths necessary to obtain solid bottoms and even bearing throughout a similar strata. Allow for sufficient recess for brickwork if carned under main floorings so as to reduce the amount of concrete necessary provided that the fill is retained from displacement under the footings by a temporary earth bank or similarly and provided also that a minimum of 100mm begin the same hardcore is provided under all footings in such case routbase or ungraded bluemetal is recommended as hardcore coalways is NOT to be used. Reinforce to Engineers detail and pour in one continuous operation in concrete Grade 20 unless otherwise normaled Residential slabs and footings must be constructed in according to manufacturers recommended as hardcore coalways are under the

Topping slabs shall be continuously cured for 7 days to prevent non structural cracking

BRICK AND BLOCKWORK - (construction of masonry building shall be as per AS3700) BCA part 3.3 CLAY BRICKS
To be sound hard of well burnt clay and shale and comply with specifications AS1225 Burnt Clay and Shale Buil

To be sound hard of well burnt clay and shale and comply with specifications AS1225 Burnt Clay and Shale Building Bricks

SAND LIME BRICKS To Comply with AS1654 Calcium Silicate Bricks and have a transverse strength no less than as per Specification AS1640

Clay Bricks
CONCRETE BLOCKS OR BRICKS To comply with AS4455 Masonry Building Blocks/Pavers

CONCRETE BLOCKS OR BRICKS To comply with AS4455 Masonry Building Blocks/Pavers
SAND To be clean sharp and free from all impurities
CEMENT MORTAR To be one part fresh cement to 3 parts sand
LIME MORTAR BCA part 3 3 1 6
To be one part lime to 3 parts sand Lime to be well slaked before use
COMPO MORTAR To be one part cement one part lime and 6 parts sand All bricks to be well wetted before use This not to apply to textured bricks
Footing courses to be grouted solid with cement mortar All brickwork to be properly bonded 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 brickwork faces 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 faces with neat struck joints

BUILD THE FOLLOWING IN CEMENT MORTAR BCA part 3.3.1

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 compo mortar. All other Brickwork. including concrete masonry
SLEEPER PIERS BCA table 3 2 5

SLEEPER PIERS BCA table 3 2 5
230 x 230mm up to 1 5 high footings are to be two courses of 350mm work. Where pier height exceeds 1 5m up to a maximum of 2 4m footings are to be two courses of 470 work and lower portion of pier to be 350 x 350. Concrete footings must be 500mm square and 200mm thick for an effective supported floor area of not more than 20m² All footings must have Engineers details for soil other than class A or S. ENGAGED PIERS. BCA figure 3 3 1 2.

To be minimum of 230 x 350 (including wall thickness) spaced at not more than 1 8m centres up to 2700 high to support floor bearers and at similar centres to stiffen walls supporting concrete slabs. All stack bonded piers to be anchored to walls with specified wall ties every fourth course. Areas with design wind speeds greater than N2 must be vertically reinforced with at least 1 off Y12 bar tied to the footing.

VENEER WALLS. BCA 3.3

To be 110mm Brickwork built in Compo Mortar on foundation walls as previously specified. Internal faces to be 38mm 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 610mm vertically or 610mm horizontally and 460mm vertically. Ties to be left open for attachment to studs. A cavity space of between 25mm and 50mm must be maintained throughout. Where thermal insulation is required to comply with Energy Efficiency requirements clear cavity spaces must be maintained. Cavities and weep holes to be clean and clear at 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 face walls to be flush with brickwork.

SPECIAL WALLS. (if shown on plans).

Walling not of timber. Veneer on timber or masonry to be constructed as per Structural Engineers. Detail and Certificate.

SINGLE LEAF MASONRY (Garage Walls etc.).

Footings as per BCA part 3 2 5 engaged piers and reinforcing to be as per part

Adequate access in the external foundation wall must be provided with a weatherproof lockable door and crawl access is to be provided to all under

VENTILATION BCA part 3 4 1
Sub floor areas shall be ventilated Sub floor areas shall be ventilated by means of evenly distributed openings with an unobstructed area of 7300mm2 per lineal metre of external wall Where particle board flooring is used the unobstructed area shall be increased to 7500mm2 per lineal metre and evenly spaced. Ventilation of internal walls shall be a minimum of 22000mm 2/m run of wall. 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 walls below floors. No section of the under floor area should be so constructed that is will hold pockets of still air. Appropriate special provision to be made where a gas bath heater is installed. Ventilation may be varied / Local Council

BRICK REINFORCEMENT

In full brick cavity walls at two courses above level of the highest opening built into each 110mm thickness one continuous strand of 64 wide galvanised metal reinforcement lapped 100mm at joints and full width of layer at intersections

ANT CAPS

To all brickward and piers at the level of underside of floorbearers and capping of 0.5mm gauge galvanised steel or other approved metal is to be

To all brickwork and piers at the level of underside of floorbearers and capping of 0.5mm gauge galvanised steel 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 Tapped 13mm and soldered or crimped at all joints and corners so as to provide a continuous and effective barrier against termites throughout the length of the material. Whole of house protection against subterranean termite attack shall be installed in accordance with AS 3660.

TIES BCA PART 3.3.3.

Wall tres complying with AS/NZS2699 shall be used for all tie requirements. Corrosion protection and installation of wall ties is to comply with AS3700 STEPS.

If shown on plan in bricks to match other exposed brickwork. To be built in solid work or where side walls are provided in consolidated filling. Treads are to be brick on edge, or pre-cast concrete units with a maximum of 355mm going and a maximum of 190mm and minimum of 115mm rises.

LINTELS BCA PART 3 3 3 4

Provide galvanised mild steel angle iron or bars of the following sizes over openings to each 110mm thickness (or part thereof) of brickwork, all having a minimum of 110 bearing each end. All lintel angles to be placed with the longer leg vertical.

UPPER STOREY	EXTERNAL WALLS	INTERNAL WALLS
Up to 1210mm span	One 76mmx10mm bar	One 76mmx10mm bar
Up to 1570mm span	One 76x51x10 angle	One 76x51x10 angle
Up to 2410mm span	One 127x76x10 angle	One 127x51x10 angle
Up to 3010mm span	One 152x89x10 angle	One 152x89x10 angle

LOWER STOREY OR BASEMENT	EXTERNAL WALLS	INTERNAL WALLS
Up to 910mm span	One 76x76x10 angle	One 76x76x10 angle
Up to 1210mm span	One 102x76x10 angle	One 127x76x10 angle
Up to 1810mm span	One 152x76x10 angle	One 152x89x10 angle
Up to 2410mm span	One 152x102x10 angle	One 152x102x10 angle

FIREPLACE CHIMNEY and FLUES BCA part 3 2 5 5 and 3 7 3

Reinforced concrete footings 300mm wider all round than brick construction to be provided. Build 110mm brick wall and/or corbel courses to support hearth. Non combustible material to be used for upper surface of hearth with a minimum thickness of 155mm and shall extend not less than 300mm beyond the front of the fireplace opening and not less that 150mm beyond each side of the opening. Local council may vary this requirement. Provide fireplace and chimney in position as shown and to the dimensions on plan. Mild steel bars or angles of suitable sizes and with a 110mm bearing at each end to support work over openings. Up to the level of 300mm above the underside of the arch or lintel the back and sides of the fireplace to be constructed in two separate sections of solid masoniny minimum 190mm thick not including cavity. Concrete masoniny not permitted in construction of inner section balance of walling to be minimum of 90mm thick. Flue to be rendered minimum 12mm thick. Mix. 1 cement. 2 lime. 10 sand or L.C. approved material. Chimney stack is to be not less that the height of the main roof indge and is to be built in compo mortar. The flue is to be 250 x. 250mm or one tenth of the area of the fireplace opening whichever is the greater gathered over to break daylight and pargetted to the full height. An 0 6mm galivanised steel tray in one piece holed for flue is to be set at level of one course above roof covering on the high side of the roof. The internal edges are to be shaped to form a quadrant gutter 25mm wide sweated at corners. The tray is to project a minimum of 25mm beyond the external faces of brickwork turned up and/or down as required. Where the tray is turned up a clearance of at least 6mm is to be maintained between the brockwork and the tray Provide weep holes by leaving open vertical joints in brickwork above tray. Rake joints in brickwork ready to receive flashing to be provided by Plumber. A loose brick must be left on the back of the chimne all mortar droppings

HEATING APPLIANCES BCA part 3 3 4

Heating appliances installed in brick or blockwork surrounds shall be in conformance with AS 1691 or AS 2918 as applicable

DAMPCOURSE AND WEATHERPROOFING OF MASONRY BCA part 3 3 4
Provide a continuous run of L C Approved dampcourse material to full width of wall thickness on all brickwork at level not higher than bottom of floor bearers and engaged piers. Dampcourse material is to be run in long lengths, lapped minimum 100mm at joints and full width at all intersections. To wall surrounding concrete and/or solid floors an additional run of dampcourse is to be laid one full course above floor level and stepped down to meet lower dampcourse where other walls abut walls of bathroom, shower recess or laundry. Damp proof courses and flashings shall be installed to give performance as specified in AS/NZS 2904.

VERMIN PROOFING

13mm mesh galvanised bird wire to be built into brickwork and taken across cavity and secured to bottom plate FLASHING BCA part 3 3 4

LC 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 **WEEP HOLES**

Perpend joints are to be left open in exterior brick walls spaced approx 600mm in course immediately over flashings of all exposed openings and to brick retaining walls fender walls etc as required. See Bushfire Clauses for protection of weep holes in bush fire areas

RETAINING WALLS

Retaining walls not specifically detailed and foundation walling required to retain earth are to be a minimum of 230mm thick up to a height of 750mm of retained earth. Cavity walls used to retain earth are to have the leaf adjacent to the retained earth a minimum of 230mm thick to a maximum of 900mm of retained earth height. All to be properly bonded (see Bonded Walls) and provide with a properly constructed agricultural drain to the earth side of retaining wall. For walls in excess of the above heights of retained earth, an Engineers detail will be required.

Solid brick walls more than one brick width which are used to retain earth or are otherwise noted as Bonded Walls shall be bonded throughout the thickness of the wall by either header bricks or equivalent tying. Where header bricks are used every sixth course shall be a header course or there shall be at least one header or equivalent tie to every 0.13sq metres (every third course at 480mm centres). Walls 350mm or more in thickness shall have overlapping headers or ties to provide a continuous tie through the wall CAVITY WALLS.

Walls indicated as cavity walls to be constructed with two leaves 110mm thick spaced nominally at 60mm apart. Where thermal insulation is required to comply with Energy Efficiency requirements clear cavity spaces must be maintained. Connect the two leaves with wall ties as per AS2699 set nominally 600mm apart in every fifth course. Keep ties clean of mortar droppings and cavity clear as work proceeds.

STRAPS BCA part 3 3 3.

To full brick cavity walls secure door and window frames with 1 6mm galvanised iron straps set in brickwork. Straps to be 25mm wide and at least 300mm long, where practicable and spaced at a maximum of five courses apart. Set 25mm x 1 6mm galvanised iron straps 1800 apart and 1200mm down cavity with ends turned 75mm into brickwork to secure wall top plates.

COMPLETION

Clean all cavities Wait upon and make good after other trades Replace all damaged and defective bricks. Clean all exposed brickwork with diluted spirits of salts or as otherwise recommended by brick manufacturers, wash down with clean water and leave free from cement and mortar stains.

CONCRETE BRICK AS 1346 - BCA part 3 3

MORTAR For normal conditions mortar to consist of Above Dampcourse

1 part cement 2 parts lime or lime putty

Below Dampcourse

1 part cement 1 part lime or lime putty

9 parts clean sand

6 parts clean sand

Mortar mixes must comply with A S 3700 and BCA part 3 3 1 6
The substitution of other plasticisers for lime is not recommended. Under no circumstances should the proportion of cement be increased.

JOINTS BCA part 3 3 1 7Finish all external brickwork and internal feature walls with raked joints. Finish all other brickwork with neat struck joints.

JOINT REINFORCEMENT AND ARTICULATION JOINTS BCA part 3 3 1 8 in addition to reinforcement over openings as later specified provide joint reinforcement in bed joints at vertical spacings not exceeding 600mm. Control joints providing a continuous vertical separation through the entire thickness of the wall are to be provided where indicated on plans or where walls exceed 9m in length as close as practical building will permit. Reinforcement not to extend across control joints.

AUTOCLAVED AERATED CONCRETE BLOCKS
Lightweight blockwork shall be Autoclaved Aerated Concrete blocks consisting of sand cement and lime and shall be installed to areas as indicated on drawings. Site provisions for storage of materials and for the mixing of adhesive shall be as recommended by the manufacturer WORKMANSHIP
Fixings fastenings anchors lugs and the like shall be of a type approved by the manufacturer and shall transmit the loads and stresses imposed and ensure the rigidity of the assembly. Block laying shall be in accordance with the manufacturers current published specifications.

TOLERANCES

TOLERANCES

Maximum planar misalignment shall be 2mm along butt joints. The thickness and width of walls shall not vary by more than 5mm from design sizes Deviation from plumb level or dimensional angle must not exceed 5mm per 3.5m of length of member or 6mm in total run in any line INSTALLATIONS.

All lightweight blockwork shall be installed using thin bed adhesive mortar to all horizontals and perpends. The first course must be made true and level using a normal thick bed mortar with thin bed adhesive to fully seal the perpends. All thin bed adhesive shall be applied using a recommended notched trowel to obtain an even distribution of adhesive to achieve joint thickness of 2.3mm. All lightweight blockwork shall be laid in a format that the vertical joint of the lower course must be staggered at least 100mm relative to the vertical joint of the overlaying course. A slip/joint bond breaker must be installed between the first course and the foundations or slab on all internal and external walls to allow for differential movement between the blocks and the supporting structure. Build in as necessary all flashings reinforcements arch bars lintels frames straps bolts lugs wall ties metalwork precast units sills partitions joists and the like. Carefully set out and leave openings for other trades to eliminate cutting.

COMPLETION

On completion clean out all blocks. mortar droppings debre sto and strapping.

On completion clean out all blocks mortar droppings debris etc and remove all scaffolding make good all put log holes and other blemishes and leave all work in perfect condition and protect until handover

CONCRETE BLOCK and REINFORCED MASONRY AS 3700 - BCA part 3 3 2

All masonry units shall comply with AS1500 Hollow Load Bearing Concrete Units Masonry shall be stacked on planks off the ground and in wet weather shall be covered with tarpaulins or otherwise kept dry. At the end of each days work the top of the wall shall be covered with tar paper polyethylene sheets or by other means protected from becoming excessively wet. Masonry units shall not be dampened prior to laying and shall be laid in dry state.

laid in dry state

MORTAR BCA PARTS 3 3 1 6

MORTAR BCA PARTS 3 3 1 6

Mortar shall comply with AS 3700 in all respects. Plasticisers may be used when approved and where tests show the mortar with plasticisers meets the requirements of these specifications.

CONSTRUCTION BEDDING.

All face and and legits shall be fully filled with mortar and joints shall be squeezed tight. Slushing of mortar into joints shall not be permitted. The first

CONSTRUCTION BEDDING

All face and end joints shall be fully filled with mortar and joints shall be squeezed tight. Slushing of mortar into joints shall not be permitted. The first course of blocks shall be laid in a full bed or mortar.

JOINTS BCA part 3 3 1 7

Joints on all exposed surfaces shall be as specified. The joint shall be formed by striking the mortar flush and after it has partially set tooling with the proper shaped tool to adequately compact the surface. The tool shall be of sufficient length to form a straight line free from waves. Internal joints shall be ironed. Where flush joints are left exposed, they shall be first compacted, then repointed and excess mortar removed. Joints shall be 10mm thick unless otherwise specified or directed.

PATTERNS AND BOND

All walls shall be built plumb, true and level to the thickness shown on the plans and with the pattern indicated, or running bond U.N.O.

ARTICULATION JOINTS.

Shall be located where shown and shall form a continuous vertical break from too to better of well or from bond beam. Provided shall be made for

Shall be located where shown and shall form a continuous vertical break from top to bottom of wall or from bond beam. Provision shall be made for adequate lateral stability. Joint shall be filled with mortar raked back 16mm and pointed with a non hardening plastic filler. No reinforcing shall be

Carried across control joint

Joint Reinforce every 600mm in height and in the two courses immediately above and below window openings. Lap mesh at least 150mm at all joints and intersections except at articulation and expansion joints where a slip joint may be required.

BRACING DURING CONSTRUCTION

Masonry walls constructed in locations where they may be exposed to highwinds during erection shall not be built higher than ten times their thickness unless adequately braced or unless provision is made for prompt installation of permanent bracing such as intermediate floor or roof structure. Back filling shall not be placed against foundation walls or retaining walls before mortar or grouting has sufficiently hardened or before wall has been permanently braced to withstand horizontal pressure.

WEATHERPROOFING BCA part 3.3.4

All concrete masonry walls exposed to the weather or below ground level shall be adequately water proofed using an approved paint or other coating and applied in accordance with the directions of the manufacturer.

CLEANING

During the progress of the work, every offert shall be accordance.

During the progress of the work every effort shall be made to keep walls that are to be left exposed clean Mortar smears shall be allowed to dry for a short period and shall then be promptly removed by trowel or wire brush or both. Care shall be taken to avoid damage to the mortar joint when brushing. Mortar burns shall be promptly removed. At the conclusion of the work, walls shall be cleaned down, all scaffolding and debris removed and the wall left in good clean condition.

BUSHFIRE PRONE AREAS – BCA 3 7 4

Performance requirements are satisfied for a class 1 building in a bushfire prone area if constructed in accordance withAS3959 NSW variation excludes Section 2 of that standard which is replaced by Planning for Bushfire Protection appendix 3 Site Assessment for Bushfire Attack OR in consultation with NSW rural Fire Service under Sec 79B of the Environmental Planning and Assessment act1979

OR as modified for development consent under section 100B of the Rural fires Act

CONSTRUCTION OF CLASS 1 BUILDINGS as per acceptable methods in BCA clause 3 7 4 1 (for information only)

BUILDING		ATTACK CATEGORY	
COMPONENT	MEDIUM	HIGH	EXTREME
Flooring system	(a) Concrete slab on ground (b) Suspended concrete floor (c) Framed floor with all joists and bearers above 600mm above ground (d) Framed floor where timbers are less than 600mm above ground (i) All timbers fire retardant OR (ii) subfloor space fully enclosed as per the wall above OR (iii) fully enclosed with non combustible material or 6mm thick FR cement sheets	As per medium requirements	As per medium requirements except that where bearers and joists are greater than 600mm above ground and not enclosed all timbers must be fire retardant treated or sheeted underneath with non combustible material
Supporting posts piers stumps poles (except where enclosed as per flooring systems)	(a) Non combustible material (b) Fire retardant treated timber to 400mm above ground (c) Timber mounted on 75mm high stirrups	As per medium requirements	As per medium requirements except that all timber is to be fire retardant treated
External Walls	(a) Masonry concrete or earthwall (b) Framed wall with (i) sarking having a flammability index not more than 5 OR (II) an insulation material of that standard (c) Timber logs with all joints between the logs planed and sealed (d) Combustible sheet cladding if cladding within 400mm of ground is covered by non combustible sheet material	As per medium requirements except that (a) P V C cladding must not be used and (b) Timber wall cladding must be fire retardant treated	As per high attack category
Windows	The openable part of a window must be screened with aluminium steel or bronze corrosion resistant mesh with 1 8mm max aperture size	As per medium requirements except that (a) timber must be fire retardant treated except if enclosed by non combustible shutters (b) Leadlight windows must be protected with non combustible material or toughened glass (c) Window screens must not be aluminium	As per high requirements except that windows not protected by non combustible shutters shall be glazed with toughened glass
External doors	External doors must be fitted with weather strips or draught excluders to prevent build up of burning debris and tight fitting screen doors with corrosion resistant mesh as per windows	As per medium requirements except that (i) aluminium mesh must not be used and (ii) leadlight panels must be protected by non combustible shutters or panels	As per high bushfire requirements except that (a) Timber doors must be fire retardant treated OR (b) Protected by non combustible shutters OR (c) Solidcore doors min 35mm
Vents and weepholes	Vents and weepholes must be protected by spark guards of corrosion resistant 1 8mm max mesh size aluminium steel or bronze	As per medium category except that aluminium mesh must not be used	As per high category requirements
Roof covering eaves and fascias	(a) Timber shakes or shingles are not allowed (b) Sheet roofing must be metal or fibre reinforced cement (c) Seal gaps under corrugations at wall or eaves line by (i) fully sarking roof OR (ii) corrosion resistant mesh as per weepholes or profiled metal sheet or mineral wool (d) Hip and ridge capping must be preformed with no gaps or gaps sealed as per (c) (e) Roof wall junctions must be sealed by (i) fascia and eaves lining OR (ii) sealing to u/side of roofing at wall line with non combustible material (f) Tiled roofs must be fully sarked (including ridge) with sarking directly under tiling battens All sarking must have Flammability Index less than 5	As per medium requirements except that (a) all roof sheeting must be non combustible and sarked and (b) Timber eaves lining and/or trimming strips must be of fire retardant treated timber and (c) Fascias must be non combustible or fire retardant treated	As per high category requirements except that (a) Fibre reinforced cement or aluminium sheet must not be used for roof sheeting or fascias and (b) Aluminium must not be used for eaves linings
Roof lights	(a) rooflight penetrations and shafts must be sealed with non combustible sleeve and linings (b) A rooflight may be of metal framed thermoplastic provided that the diffuser at ceiling level is wired or toughened glass in a metal frame (c) Vents in rooflights must have a steel or bronze mesh screens with 1 8mm max aperture size	As per medium requirements except that (a) roof light glazing must be wired glass (Thermo plastic or toughened glass must not be used)	As per the requirements for high category attack
Roof Ventilators	All components of roof ventilators including rotary ventilators mu	ist be of non combustible materials and	ventilation openings must be
Gutters and downpines	Must be constructed of non-combustible materials including materials	unize screens	a or cloading
Verandah and decks	Supporting posts columns and piers and external walls must cor	noly with previous requirements as oer	this table for all categories
. I. Sindan di di di	(a) spaced timber deck flooring (i) gaps in deck strips must not be less than 5mm (ii) the perimeter of the deck must not be enclosed	ng system must comply with previous rang system must comply with previous range system must be fire retardant treated	this table for all categories equirements for flooring systems (a) as per high category except that all timber (including balustrades) must be fire
Gutters and downpipes	protected by 1 8mm max aperture size non corrosive steel or brighted by 1 8mm max aperture size non corrosive steel or brighted by the constructed of non combustible materials including mate Supporting posts columns and piers and external walls must confirm the sheeted or tongue and grooved solid flooring is used the flooring spaced timber deck flooring (i) gaps in deck strips must not be less than 5mm	onze screens enals or devices to stop leaves collectin mply with previous requirements as per ng system must comply with previous n (a) spaced timber deck flooring must be fire retardant	g or clogging this table for all equirements for (a) as per high that all timber

NOTES

- (a) Fire retardant timber must comply with requirements of AS/NZS3837 Some timber varieties naturally meet the Ignition and Heat Radiance Parameters when tested to ASTM D2898 Method B without having to be fire retardant treated
 (b) External timbers in a verandah patio deck or the like are regarded as protected also if they are under a roof or similar structure that projects to a line at an angle of 30° off the vertical from the base of the wall
- Where roofing systems are fully sarked mesh protected vents may be necessary to reduce condensation in some areas
- (d) Where sub floor areas are enclosed termite protection must not be compromised

ENERGY EFFICIENCY - BCA part 3 12

Performance provisions of the BCA part 2 6 requires that a building must have a level of thermal performance so that greenhouse gas emissions are reduced using energy efficiently. This level of thermal performance must facilitate the efficient use of energy for cooling and heating. This will be achieved by selection of materials and methods of construction of Building Fabric External Glazing Building sealing. Air movement and services as best suited to the particular Climatic Zone in which the building is sited. A building must have an energy rating of not less than 5 stars complying with the ABCB protocol for House Energy Rating (Note BCA part 2 6 does not apply in NSW) Map of Australian Climate Zones for Thermal Design can be viewed on the Australian Building Code Boards website at www abcb gov au

R Value is the Thermal Resistance of a component to heat and cold movement. Thermal movement is upwards or downward through a roof or a

combination of both													
THERMAL RESISTANCE minimum	n TOTAL	R Value	required t	or vario	us clima	atıc zones							
BUILDING COMPONENT	Γ					CI	LIMATE ZOI	VE					
ROOFS	1	2 Alt	itude less t	han 300	2 A	Ititude 300r	n or more	3	4	5	6	7	8
Direction of heat flow		Dov	vnwards			Downward	ds and upwa	irds	Ţ		Üpwards		
Minimum Total R Value required	22	T	22			2.5		22	30	27	32	38	43
BUILDING COMPONENT							CLIMATE Z	ONE					
WALLS		1	2	3		4	5		6		7	\top	8
Minimum Total R – Value required			14			17	1 4		17		19		28
QLD Variation minimum Total R Va	ue		10			na	1 4				na		
Special Condition apply to two storey I	ouses												
FLOORS		CLIM	ATE ZONE	S	6	7	8	Enclosed	perimete	rs and h	eated slab	floors h	ave
Suspended floors without heating an	d unenclo	sed arou	ind perimet	er	10	10	2.5	special re	equiremen	nts Cons	ult authord	ies	

Added insulation to achieve minimum R Values for various climate zones can be (a) Reflective Insulation or (b) Bulk insulation or a combination of both. Reflective Insulation must be installed with not less than 20mm air space between the more reflective side and a building lining or cladding (note cavity clearances are not to be reduced) and closely fitted against any penetration and or door/window frame be adequately supported and overlapped to adjoining sheet not less than 150mm Bulk insulation must be installed so that it maintains its position by not slumping and forming voids and must abut other installation or building members. Care should be taken that insulation does not interfere with the safety or performance of services or fittings. Insulation as manufactured must comply with AS/NZS4859.1

R VALUE O	FINSULATION TO BE ADDED TO BUILDING	COMPONENT TO ME	T TOTAL R VALUE RE	QUIRED					
ROOF			CLIM	IATE ZO	VE .				
TYPE	ROOFS	12	12				,		
		Below 300m	at or over	3	4	5	6	7	8
		AHD altitude	300m AHD	L	l	l	l	[
Mınimum re	quired Total R Value for roofs	22	2.5	22	30	27	32	38	43
FLAT ROOF	SKILLION ROOF AND CATHEDRAL CEILIN	G - CEILING LINING U	DER RAFTERS						
TILED	Total R Value of roof materials	0 4 downwards	0 4 down and u			0	40 upwai	rds	
	Minimum R Value of insulation to add	18	21	18	2 59	2 29	2 79	3 39	3 89
FLAT ROOF	SKILLION ROOF AND CATHEDRAL CEILIN	G - CEILING ON TOP C	F EXPOSED RAFTERS						
TILED	Total R Value of roof materials	0 4 downwards	0 41 down and u				41 upwai		
	Minimum R Value of insulation to add	1 79	2 09	1 79	2 59	2 29	2 79	3 39	3 89
FLAT CEILII	NG WITH PITCHED ROOF - CAVITY ROOF S	SPACE							
TILED	Total R Value of roof materials	0 7 downwards	0 35 down and u				35 upwa	rds	
	Minimum R Value of insulation to add	15	2 15	1 85	2 65	2 35	2 85	34	3 95
FLAT ROOF	SKILLION ROOF AND CATHEDRAL CEILIN	G - CEILING LINING UN	IDER RAFTERS						
METAL	Total R Value of roof materials	0 38 downwards	0 35 down and u				39 upwai		
	Minimum R Value of insulation to add	1 82	2 12	1 82	2 61	2 31	2 81	3 41	3 91
FLAT ROOF	SKILLION ROOF AND CATHEDRAL CEILIN	G - CEILING LINING OF	TOP OF EXPOSED RA	AFTERS					
METAL	Total R Value of roof materials	0 37 downwards	0 37 down and u			0	39 upwa		
	Minimum R Value of insulation to add	1 83	2 13	1 83	261	2 31	2 81	341	3 91
FLAT CEILI	NG WITH PITCHED ROOF ~ CAVITY ROOF S								
METAL	Total R Value of roof materials	0.5 downwards	0 4 down and up				4 upwar		
	Minimum R Value of insulation to add	17	2 1	18	26	23	28	3 4	39

A roof must achieve the minimum Total R Value specified in Climate Zones 1.2 and 3 pitched roof material with a flat ceiling must have a Solar Absorbance value less than 0.55 RBM installed below the roof and the roof space ventilated by roof gable eaves or ridge vents that allow an unobstructed air flow with no dead air spaces. Vents must have a total fixed open area of not less than 1% of the ceiling area. OR not less than 2 wind driven ventilators in association with fixed vents subject to approval TYPICAL SOLAR ABSORPTANCE VALUES OF COLOURED ROOFS.

TYPICAL SOLAR	ABSORPTANC	E VALUES OF COLOURED ROOFS		
Slate (dark grey)	0 9		Light Grey	0 45
Red Green '	0 75	Zinc Aluminium (dull) 0 55	off white	0 35
Yellow Buff	06	Gaívanised steel (dull) 0 55	Light Cream	03

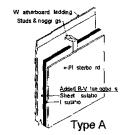
EXTERNAL WALLS

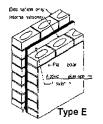
EXTERNAL WALLS

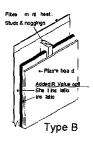
An external wall must achieve the minimum Total R Value for the relevant Climate Zone or in Climate Zones 1 2 and 3 to be shaded by a verandah balcony carport eaves and gutter or the like The horizontal projection from the external face of the building must be not less than one quarter of the overall height of the wall measured from the internal floor vertically to the underside of the projection. This applies to all stories NOTE. In Climate Zones 4 5 6 7 and 8 all walls must achieve a surface density of not less than 220 Kg/m2 and in Climate Zone 6 be constructed on a flooring system that is in direct contact of ground i.e. concrete slab or in Climate Zones 6 7 and 8 incorporate insulation with an R Value not less than 1 0 to the edges and underneath the slab.

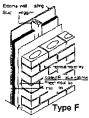
These requirements to not apply to South facing walls in Climate Zones 1 2 and 3 south of latitude 20 south

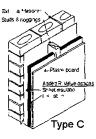
R VALUE OF INSULATION TO BE ADDED TO BUILDING COM	PONENT TO MEET TOTAL R VALUE REQUI	RED			
			CLIMATE	ZONE	
TYPICAL WALL CONSTRUCTION	R_VALUES	1235	46	7	8
	Minimum required Total R - Value for Walls	14	17	19	28
	Total R Value of Wall Materials		0 47		
(A) Weatherboard minimum 70mm Timber Frame	Minimum R Value of insulation to add	0 93	1 23	1 43	2 33
	Total R Value of Wall Materials		0 4		
(B) Cement or Metal Sheet 70mm timber frame	Minimum R Value of insulation to add	10	13	15	24
	Total R Value of Wall Materials		0 54		
(C) Clay Masonry Veneer minimum 110mm Veneer	Minimum R Value of insulation to add	0 86	1 16	1 36	2 26
	Total R Value of Wall Materials		0 52		
(D) Concrete Block Masonry minimum 140mm Masonry	Minimum R Value of insulation to add	0 88	1 18	1 38	2 28
	Total R Value of Wall Materials		0 67		
(E) Cavity Clay Masonry 110 ext veneer 90mm internal (min)	Minimum R Value of insulation to add	0 73	See	note abov	e
	Total R Value of Wall Materials		0.5		
(F) External insulated Clay Masonry Minimum 110 mm masonry	Minimum R Value of insulation to add	0.9	12	1 4	23
<u></u>	Total R Value of Wall Materials		0 48		
(G) External insulated Corner Masonry minimum 140mm thick	Minimum R Value of insulation to add	0 92	1 22	1 42	2 32
	Total R Value of Wall Materials		1 73		
(H) Autoclaved Aerated Masonry minimum 200mm thick	Minimum R Value of insulation to add	Nil	Nil	Nil	1 07

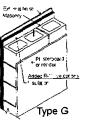


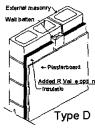


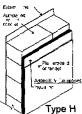












ENERGY EFFICIENT EXTERNAL GLAZING – BCA part 3 12 2

This part of the BCA applies to Class 1 buildings and class 10a buildings with a conditioned space

Acceptable Construction Practice. The effective glazing area of a building must not exceed the percentages of the building area as per BCA Table 3 12 2 1. This table defines the maximum effective glazing area (Total glazed area of all windows in a storey) as a percentage of the total floor area of a storey. The glazing area limits listed provide only the minimal protection against overheating (heat flow into the building via the glazing) and heat loss (through the glazing) in cold conditions. The heat loss or gain can be controlled by siting of windows shading use of protective films double glazing with air or gas fill in a sealed unit and size of windows. Window manufacturers can supply windows to suit the requirements for the site Climate Zone and the window construction depends on shading of the glazed area by verandahs, balcony fixed canopies etc or a shading device. A shading device must restrict at least 80% of the solar radiation when in use and can be a shutter, blind, vertical or horizontal screen with blades battens, slats etc, and be adjustable by the building occupants. Where necessary the nomination of glazing types, window locations, shading etc should be carried out by an approved specialist.

NSW requirements to comply with BASIX Specifications are selectable in Nathers 2 32A.

CARPENTRY

All timber shall comply with the appropriate standard as listed below. Timber sizes shall be selected so that the building as constructed complies with AS1170 2 or AS4055 for serviceability and Design Wind Gust Velocities (permissible stress) of 33 M/s minimum. Substitution of some members may be required for higher Gust Wind Velocities and advice of local authorities. Building Department or Structural Engineer should be sought as whether design to N3 or higher is required.

STRESS GRADES.

STRESS GRADES
Visually Stress Graded Timber. Timbers whose species or place of growth is known may be visually graded for quality in accordance AS 2082
Mechanically Stress Graded Timber of required stress grade according to AS/NZS 1748 may be used regardless of species
Seasoned Timbers. All timber shall be regarded as seasoned only if its moisture content does not exceed 18 per cent
FRAMING BCA part 3.4.3
Timber sizes in this specification are based on AS1684.4 Simplified Non cyclonic areas with restrictions as follows. Maximum wind classification N2 (33m/s) maximum roof pitch 30° maximum building width 12.0m maximum rafter overhang 750mm maximum wall height at ext. walls floor to ceiling 2400mm. The sizes are for information only and should not be used for construction. All design for a structure within these limits should be carried out to AS1684.4

NOTE for wind classification N3 (W41N) and N4 (W50N) Non cyclonic areas with building widths 12.0m and up to 16.0m and with roof slopes exceeding 30° and up to 35 design according to AS1684.2 is required. For construction in Cyclonic Areas wind classification C1 to C3 refer to AS 1684.3

exceeding 30° and up to 35 1684 3

CUTTING, ASSEMBLY AND ERECTION OF FRAMING ABOVE GROUND FLOOR LEVEL
Where framing is cut assembled and erected on site particular care should be taken that member sizes and fixings are designed to comply with stress grades for the particular number of stories and roof loads according to AS1684
FLOOR FRAMING

Ground floor timbers shall be only of hardwood cypress pine or pressure treated Radiata or Canada Pine below a height of 300mm above finished ground level and must not be built into brickwork. Subfloor ventilation shall conform to BCA part 3.4.1 In Bushfire Prone Areas special conditions apply. Where termite barriers need to be inspected. 400mm clearance is required between the underside of bearer and ground surface. BCA FIGURE 3.4.1

ANT CAPS.

To all brickwork and piers at the level of underside of floorbearers and capping of 0.5mm gauge galvanised steel 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 and soldered or crimped at all joints and corners so as to provide a continuous and effective barrier against termites throughout the length of the material. Whole of house protection against subterranean termite attack shall be installed in accordance with AS 3660.1

BEARERS

BEARERS

Bearers should be laid in straight and normally parallel lines with top surfaces arranged to give level bedding for joists. Unless specifically noted as otherwise bearers shall be located directly under all load bearing walls except where walls are located at right angles to line of bearers in which case piers or other approved supports shall be provided for bearers at points where they cross under such walls. Bearers having minor excesses in depth shall be brought to required level by checking out underside over supports. Packing is to be avoided but where there is no alternative corrosion resistant and incompressible sheet material over full area of contact may be permitted. Bearers having not more than permitted spring shall be placed so that they tend to straighten under loading. Joints in bearers unless specifically detailed otherwise shall be made only at points of support on which adequate bearing for both members can be provided and the joint shall be secured by means of bolting or spiking against displacement or separation. lacement or separation

JOISTS
JOISTS
JOISTS
JOIST SHALL be laid over bearers in straight and normally parallel lines with top surfaces set accurately to a common level to receive flooring Underside of joists having minor excesses in depth are to be notched out over bearers to obtain required common level. Packing may be employed if unavoidable similar to that for bearers such packing to be securely fixed. Joists having not more than the permitted amount of spring shall be laid so that they tend to straighten under loading. Joints unless specifically detailed shall be made only over bearers or other supports. Joints occurring in joists which are parallel and support wallplates shall be made at points of support which provide adequate bearing for both ends which shall be butted or scarfed to maintain a straight line. Posts shall be securely skew nailed from both sides to bearers at all points of support. Where floor joists abut solid masonry or concrete walls they shall be supported on timber wall plates or bearers carried on walling off sets or attached piers where such method is not practicable and height of floor is more than 1800mm above ground the ends of joists or bearers may bear in pockets formed in the wall which allow at least 12mm clear air space at sides and ends of members and provide solid bearing at least 100mm in depth.

depth
Where the unsupported span of deep joists exceed 2700mm 50mm x 50mm herringbone strutting or solid blocking of 25mm min thickness shall be provided in continuous rows between joists at not more than 1800mm centres

EAVES BEAMS AND VERANDAH PLATES

Eaves beams and verandah plates shall be provided to support rafters or trusses over full height openings or recesses in walls or over verandahs or porches covered by main roof structure. Any reduction in nominal size through mill dressing or scalloping shall be allowed for so that the minimum size listed is not reduced. The ends of eaves beams and verandah plates that are supported on stud wall shall be carried by studs or stud groups as

for heads for equivalent spans. End fixing shall provide resistance to uplift or displacement. Verandah Posts to be not less than 100mm x 100mm in timber F11. If supporting roof loads they shall be as per AS1684.2.

ROOFING BATTENS. Supporting roofing only. (Note roofing battens are not suitable for the safe support of workers prior to fixing roof cladding.)

Battens should be continuous over a minimum of two spans and their design to suit rafter/truss spacing and batten spacing must be in accordance with AS1684 for the allowable roof mass.

Trim as required between ceiling joists or trusses for manhole 600 x 400mm minimum size. Line the opening and provide a suitable cover **EAVES**

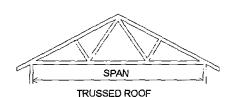
EAVES
Project rafters to give a soffit at eaves of directed width and fix 200 x 25mm timber fascia or colourbond steel as directed. Where eaves are boxed in soffit bearers (sprockets) of 50 x 38mm shall be provided spaced to suit eaves lining and attached directly to outer ends of rafters. In brick veneer buildings the inner ends of soffit bearers shall be fixed to the frame so as to be 20mm or more clear above top of brickwork at time of construction in solid masonry buildings the inner ends of soffit bearers shall be located by means of 50 x 25mm hangers from rafters or wall plates. In Bushfire Prone Areas fascias and eaves linings have special requirements.

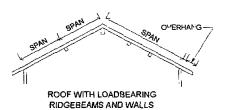
PREFABRICATED TIMBER WALL FRAMES AND TRUSSES – BCA part 3 4 3
Where prefabricated frames and/or trusses are used for construction of the building the manufacturers certification of construction according to AS1684 2 or AS1684 4 for the building on the particular site must be obtained. Where certification is attached to truss or framing members the certification labels shall be left in place after erection for approval by the appropriate Building Surveyor P C A or Council Authority. Timber trusses purpose manufactured for this project and engineer designed according to AS1720 1 are to be spaced at centres as directed erected and fixed in accordance with the manufacturers instructions as approved. Support only on ends or designed bearing points. Where spacing of trusses exceeds 600mm centres provide intermediate ceiling joists in 100mm x 38mm hardwood (in F7) or 100mm x 50mm (in F8) supported from hangers at maximum of 2100 centres. Hanging beams shall be supported not more than 600mm from bottom chord panel points unless hangers are provided to nearest top chord panel points. nearest top chord panel points

MASSES OF TYPICAL ROOF CONSTRUCTION

MASS OF ROOF	MATERIAL
10 kg/m2	Steel sheet roofing 0 50mm thick and battens
20 kg/m2	Metal sheet tiles or medium gauge steel sheet roofing battens 12mm softwood ceiling lining sarking and lighweight insulation
30 kg/m2	Steel sheet roofing 0 775mm thick 13mm plaster ceiling roof and ceiling battens sarking and lightweight insulation
40 kg/m2	Steel sheet roofing 0.75 thick battens graded purlins and high density fibreboard ceiling lining
60 kg/m2	Terracotta or concrete tiles and battens
75 kg/m2	Terracotta or concrete tiles roofing and ceiling battens 10mm plasterboard sarking and insulation
90 kg/m2	Terracotta or concrete tiles purlins roofing and ceiling battens 19mm hardwood ceiling lining sarking and insulation

NITIONS Spacing Where this term is used the measurement shall be the centre-to-centre distance between members Span Where this term is used the measurement shall be the face to face distance between members Reference is made to effective roof spans in the tables the span is an indicator of the mass of roof being carried by the outer wall members DEFINITIONS





Framing Member Stud Height 2400 Span F8 F5 MGP10 MGP12 F8 F5 MGP10 MGP12 BEARERS Strutted roof – max rafter span 3000 @ 1800 spacing continuous over two or more spans load bearing JOISTS Unseasoned Seasoned Seasoned Seasoned Seasoned MGP12 F8 F5 MGP10 MGP12 F8 F5 MGP10 MGP12 F8 F5 MGP10 MGP12 F8 F5 MGP10 MGP12
BEARERS Strutted roof – max rafter span 3000 @ 1800 spacing continuous over two or more spans load bearing
Strutted roof – max rafter span 3000 @ 1800 spacing continuous over two or 1500 100 x 75 2/120 x 35
@ 1800 spacing continuous over two or 1500
or more spans load bearing 1800 125 x 75 2/140 x 35 2/120 x 35 2/1
Trussed Roof 9 0 Span External Wall 1800 spacing continuous over 1500 175 x 75 2/170 x 35 2/140 x 35 2/140 x 35 125 x 75 2/120 x 35 2/190 x 35 100 x 975 100
Wall 1800 spacing continuous over 1500 175 x 75 2/170 x 35 2/140 x 35 2/140 x 35 125 x 75 2/120 x 35 2/190 x 35 100 or more spans load bearing 3 1800 150 x 75 2/190 x 35 2/190
two or more spans load bearing 1800 150 x 75 2/190 x 35 2/190 x 35 2/140 x 35 200 x 75 2/190 x 35 2/170 x 35 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
JOISTS 450 spacing continuous over two or
450 spacing continuous over two or
more spans 1800 125 x 38 120 x 45 120 x 35 125 x 36 120 x 35 120 x 35
LINTELS 900 100 x 75 2/90 x 35 90 x 45 90 x 35 100 x 50 2/90 x 35 90 x 45 90 x 35
Trussed Roof 9000 Span 1200 125 x 75 2120 x 35 120 x 45 2/90 x 45 125 x 50 140 x 45 2/90 x 45 2/90 x 35
1500 175 x 75 2/140 x 45 2/120 x 45 150 x 50 2/120 x 35 2/140 x 35 2/90 x 45
1800 200 x 75 2/170 x 45 2/170 x 35 2/140 x 35 150 x 75 2/140 x 35 2/120 x 35 2/120 x 35
2100 225 x 75 2/240 x 35 2/170 x 45 2/170 x 35 175 x 75 2/170 x 35 170 x 45 2/120 x 45
2400 275 x 75 2/240 x 35 2/240 x 35 2/190 x 45 200 x 75 2/170 x 45 2/170 x 35 2/140 x 45
3000 2/290 x 45 2/290 x 35 2/240 x 45 250 x 75 2/240 x 35 2/190 x 45 2/190 x 35
3600 2/290 x 45 2/290 x 45 2/290 x 35 2/240 x 45

UNCOUPLED ROOF WITH LOADBEARING RIDGEBEAMS AND/OR WALLS

Rafter				Unseasoned			Seasoned			
Rafter Span		Spacing	F5	F7	F8F11	F5	MGP10	MGP12	F17	
Tiled Roof Co	eiled									
3000	J	600	200 x 38		175 x 50	175 x 50	175 x 45	140 x 45	140 x 45	140 x 35
C	Overhang	l	750		750	750	750	750	750	750
3600	- 1	600	250 x 50		225 x 50	200 x 50	240 x 35	170 x 45	170 x 45	170 x 35
(Overhang	l	750		750	750	750	750	750	750
4200	- 1	600	275 x 50		250 x 50	250 x 50	240 x 45	240 x 35	190 x 45	190 x 45
	Overhang	ļ	750		750	750	750	750	750	750
4800	- 1	600	275 x 75		300×50	275 x 50	290 x 35	240 x 45	240 x 35	240 x 35
	Overhang		750		750	750	750	750	750	750
5400	, i	600			300 x 75	275 x 75		290 x 35	290 x 35	240 x 45
C	Overhang	1	,		750	750		750	750	750
Sheet Roof C	Ceiled									
3000		900	175 x 50		175 x 50	150 x 50	140 x 45	140 x 35	120 x 45	120 x 45
	Overhang	,	750		750	750	750	750	750	750
3600	, i	900	225 x 50		200 x 50	200 x 50	170 x 45	170 x 35	140 x 45	140 x 45
	Overhang	· · · · · · · · · · · · · · · · · · ·	750		750	750	750	750	750	750
4200		900	250 x 50		225 x 50	225 x 50	240 x 35	190 x 45	170 x 45	170 x 45
C	Overhang	ł	750		750	750	750	750	750	750
4800	١ .	900	300 x 50		275 x 50	250 x 50	240 x 45	240 x 35	190 x 45	190 x 45
	Overhang	ł	750		750	750	750	750	750	750
5400		900	300 x 75		300 x 50	275 x 50	290 x 35	240 x 45	240 x 35	240 x 35
	Overhang	ſ	750		750	750	750	750	750	750

NOTE

Allowable overhangs are based on a maximum birdsmouth depth of D/3 Where rafters are not birdsmouthed the allowable overhang may be increased to 30% of the single—span for that member—provided that the overhang does not exceed 50% of the actual backspan Overhang limits are only applicable where rafter ends are supported by a structural fascia

NOTE Sizes shown in tables in this specification are intended only as a guide to the size and stress grade for a particular member of a building frame. All timber framing should be designed and constructed in accordance with AS1684.2 and/or AS1684.4 Sizes in this specification are based on AS1684.4 Simplified Non cyclonic areas with restrictions as follows.

• Maximum wind classification N2 (33m/s).

• Maximum Roof pitch 30°.

• Maximum building width 12 0m. Where a building exceeds the restrictions as listed above design to comply with AS1684.2 will allow wind speeds up to N4 (50 m/s) roof slopes up to 35° and building widths up to 16 0m.

PERMANENT BRACING OF WALLS AS PER AS1684 2 Section 8 BCA parts 3 4 3
This section Permanent Bracing of walls as per AS1684 shows typical bracing applicable to timber frame construction as explanatory information

TYPE A UNITS (Design racking resistance of 2kN) The following bracing units are deemed satisfactory type A braces
1 A pair of diagonal timber or metal section braces in opposite directions from each end of the wall as per fig (A) OR galvanised metal tensioned strap bracing as per fig (B)
2 Single diagonal timber or metal section brace as per figure (C)
3 A 900mm minimum wide panel of structural plywood as per figure (D)

Type A' Bracing - Pair of diagonals from each end of wall						
Timber	Metal Section	Tensioned Straps				
50mm x 19mm for studs up to 2 7m long 75mm x 19mm for studs over 2 7m long Fixing galvanised flat head nail 2 8mm dia x 50mm long to each plate and stud	18mm x 16mm x 12mm min galvanised angle brace fixed with one 28mm dia x 30 long galvanised flat head nail to each plate and stud edge	Flat galvanised straps 0 8mm thick x 20 wide Fixings one galvanised flat head nail 2 8mm dia x 30mm long to each plate and stud edge Tension straps				

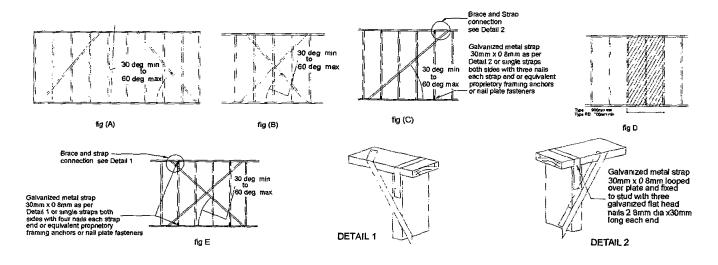
Type A' Bracing – Single diagonal at end of wall
Timber
75mm x 19mm min fixed with two 2 8mm dia x 50mm long flat head Metal Section

Galvanised angle brace fixed with two 2 8mm dia x 30 long galvanised galvanised mails to each stud and plate flat head nails to each plate and stud

Type B UNITS (design racking resistance of 4kN. The following bracing units are deemed to be satisfactory type B braces

1. A pair of diagonal galvanised metal tension straps of minimum nominal dimension 30mm x 0.8mm in opposing directions on one side of timber frame. Ends of straps shall be bent over top and bottom faces of plates and fixed with four 3.15mm dia x 30mm long galvanised flat head nails. Braces shall be fixed to studiedges with two similar nails to each crossing. End studied of braces section shall be strapped to top and bottom plates with 30mm x 0.8mm galvanised strap looped over plate and fixed to study with four galvanised flat head nails 3.15mm dia x 30mm long each end of

loop
2 A 900mm minimum wide panel of structural plywood as shown in figure (D) Fixed as follows
Plywood stress grade F8
Stud spacing 450mm to be 7mm thick ply
Stud spacing 600mm to be 9mm thick ply
Plywood stress grade F11
Stud spacing 450mm to be 6mm thick ply
Stud spacing 600mm to be 7mm thick ply
Stud spacing 600mm to be 7mm thick ply
Stud spacing 600mm to be 6mm thick ply
Fixing 2 8mm dia x 30mm long galvanised flat head nails at 50mm centres along top and bottom plates 150mm centres along vertical edges and 300mm centres along intermediate studs



Diagrams as shown and explanation of the various types of bracings are not intended to specify bracing requirements for any timber frame construction. All bracing requirements for a particular design in timber framing must be determined in accordance with Section 8 of AS1684.2 or AS1684.4 as applicable.

TIEDOWN REQUIREMENTS BCA tables 3 4 3
Tie down requirements for timber frame construction can be determined from AS1684 4 Section 9 for maximum design gust wind speeds of 33m/sec For wind speeds in excess of 33m/sec design as per AS1684 2 is required

Tie down fixings should be determined for the following connections
a) bearers to piers
d) studs to bottom and top plates
b) floor joists to bearers
e) rafters to top plates

- e) rafters to top plates f) rafters to ceiling joists c) Bottom plates to floor joists or concrete slabs

- battens and/or purlins to rafters collar ties to rafters verandah plates and eaves beams to posts

NOTE Special fastening requirements are required for type A and B wall bracing for connections (c) and (d) above

CYCLONIC AND OTHER HIGH WIND AREAS BCA part 3 10 1
Where buildings are to be constructed in regions B C and D as per AS/NZS1170 2 and AS1170 2 compliance with the AS1170 2 Minimum Design Loads on Structures or AS4055 Australian Wind Loads for Housing
NOTE High wind areas exist outside of cyclone regions B C and D Clarification of the category at the site should be sought from local authorities Cyclonic Regions of Australia and Tasmania are shown on Map BCA fig 3 10 1 4

STEEL FRAMING AND OR TRUSSES BCA part 3 4 2
MATERIALS All framing sections shall be manufactured from galvanised steel conforming to AS1397 Galvanised materials up to 3 2mm thick shall have minimum coating mass of 200 g/m2 Design fabrication and fixing shall be as per recommendations of the component manufacturers design manual Design for Residential and Low Rise Steel Framing may conform to NASH standard as alternative to AS3623

FABRICATION AND ERECTION

FABRICATION AND ERECTION
All structural components fabricated into frames and/or trusses and shall be cut accurately to length to fit firmly against abutting members and held so until fastened. Studs shall be seated squarely in bottom plates with webs at 90deg to the face of the wall and accurately located plumbed and securely fixed to top and bottom plates. Multiple studs shall be used as specified at concentrated load points. Plates shall be securely spliced to maintain continuity. Splices in studs are not permitted. Structurally adequate heads shall be fitted over openings in walls. All frames shall be adequately braced for transport and resist wind loads in service. Preferred fastering is by MIG welding. All welds shall be cleaned and painted with zinc rich paint. The bottom plate shall be securely fastened to sub floor at centres as recommended and all site connections shall be as specified in design manual. Holes for electrical wiring other cables and plumbing services shall be max. 33mm dia flanged holes. Service pipes shall be effectively separated from framing by lagging and be securely fixed in cavities. Permanent electrical earthing of a steel frame building shall be carried out in accordance with the requirements of the local electrical authority. Where power tools are used on site temporary earthing to the frame shall be made during construction. On completion of framing all debris shall be removed from cavities and bottom plates. Domestic metal framing shall be designed to comply with the load combinations as per AS3623.

STRUCTURAL STEEL - BCA part 3 4 4
All steel work is to be fabricated to details as shown on engineers drawings all work to be in accordance with AS4100 Steel Structures PURLINS AND GIRTS

To roof and walls of building provide purlins and girts according to engineers details. Cover roof and walls of building in full length sheets complete with all necessary flashings cappings etc. Secure as recommended by manufacturer and provide panels of selected translucent sheeting as indicated or directed

ROOFING BCA part 3 5 1

TILE ROOFING BCA part 3 5 1 2

Provide all roofs with first quality roofing tiles 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 either 2 ply bituminous felt or double faced aluminium 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 batten 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 Eaves with a minimum width of 1800mm approved sarking. Cover all ridges and hips with capping starters and apex caps necessary and bed all capping and verge tiles on lime mortar and point with coloured cement mortar.

TERRA COTTA TILES

To be glazed and manufactured in accordance with AS 2049. To be fixed to timber battens with copper wire ties every alternate tile, all fixed in

TERRA COTTA TILES

To be glazed and manufactured in accordance with AS 2049. To be fixed to timber battens with copper wire ties every alternate tile all fixed in accordance with AS2050.

CONCRETE TILES

To conform to AS1757 and AS1758 and to be produced by manufacturers who provide a comprehensive guarantee and fix in accordance with AS1757 riles are to have an end lap of not less than 75mm. Where wiring holes are provided every alternate tile in each course is to be tied to battens with approved wire. 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 batten. Fixing to be as per AS2050.

CORRUGATED FIBRE CEMENT ROOFING

To conform to AS1611 and fixed in accordance with AS1562 Pt.2. Minimum pitch of roof is to be 1.8 for large corrugations and 1.11 where the 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 corrugation end laps shall be at least 225mm and sealed. Sheets to be fixed with galvanised round head screws and felt washers set in mastic 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 is to be adequately birdproofed.

PROFILED STEEL ROOF BCA part 3.5.1.3.

To be material as nominated on drawings. All necessary accessories to be provided and fixed according to manufacturers recommendations. Roof is to be birdly proofed. Sheet fixings and spacings are to be strictly as per manufacturers recommendations for the design wind speed for the area. Design and installation shall be in accordance with AS/NZS 1562. Cover roof and walls of building in full length sheets complete with all necessary flashings and cappings etc. Secure as recommended by manufacturer and provide panels of selected translucent sheeting as indicated or directed. SARKING.

Where sarking is specified or required by any authorit

Where sarking is specified or required by any authority the selection of and fixing shall be in accordance with the code of practice as specified in AS1736 for pliable roof sarking and/or AS1903 04 for reflective foil laminates. All installations must comply with the requirements of BCA part 3.7.4 in Bushfire prone areas.

FLOORING BCA part 3 4 3 T & G STRIP FLOORING BCA table 3 4 3 1Flooring shall be seasoned and stored in a way to preserve its delivery condition. Flooring boards shall be laid in straight and parallel lines with tongues fitted into grooves and cramped together with pressures suited to moisture content and seasonal conditions. End joints shall be made on a loist and joints in adjoining boards shall be staggered. Flooring shall be kept 12mm clear of walls or wall plates parallel with the direction of laying Boards of normal width of 75mm and less shall be fixed with one nail at each joist and boards over 75mm shall be fixed with two nails at each joist Nails in faces of boards are to be well punched to allow for subsequent sanding and stopping. Boards profiled for secret nailing are to be skew nailed through tongues at each joist with nail punched to permit the full entry of the tongue into the groove. Flooring is not to be cut in and fixed before roofing is complete, external walls sheeted or lined and all external openings covered.

SHEET FLOORING

SHEET FLOORING
The minimum height of sheet flooring above ground level and under floor ventilation shall be in accordance with manufacturers instructions or as required by Council or Lending Authority
Where sheet flooring is used in platform construction and a decorative finish is required it shall be sealed with a water repellent at time of fixing
a) Structural Plywood shall be manufactured in accordance with AS2269 and sheets stamped on the face side with manufacturers name or trade mark Sheets shall be fixed in accordance with manufacturers instructions as approved
b) Particle Board Approved board bonded with phenolic resin to achieve a type A bond as defined in AS1860 for plywood may be used in platform construction or as fitted flooring. Boards shall be fixed in accordance with manufacturers instructions as approved. The perimeter of flooring should be fully supported by joists or noggins. Other approved particle board may be used providing it is a minimum of 2100mm above the ground c) Compressed Fibre Cement. Sheet flooring not less than 18mm thick with density of not less than 18g/cm3 may be used in lieu of suspended concrete floors. Sheets shall be fixed in accordance with manufacturers instructions adequately flashed and suitably finished.

ELECTRICAL INSTALLATIONS

Provide all labour and materials necessary for the proper installation of electrical services in accordance with the appropriate AS Rules and requirements of the Local Supply Authority Arrange with the supply Authority for connection from supply main to meter board. Provide for the proper installation and connect electricity stove/s and hot water unit/s. Provide light and power points as indicated on drawings or as directed and in accordance with AS/NZS1680. Provide box to enclose meters in accordance with the requirements of the Authority concerned. Arrange for inbuilt wiring for telephone television computer and security installation as required. AS/NZS 3000 specifies the minimum requirements including safety provisions.

SMOKE DETECTORS/ALARMS BCA part 3 7 2

Fire/smoke detectors selected by the owner and complying with the requirements of the Local Government Act and/or state or territory regulations must be fitted in the locations required and approved by the regulatory authority and shall be installed in accordance with AS3786

LIGHTNING PROTECTION

Where lightning protection is specified by the proprietor or required under regulatory provisions it shall be installed in accordance with AS1768

EXTERNAL WALL CLADDING BCA part 3 5 3

WEATHERBOARDS OR PROFILE SHEETING or other cladding as approved by the leading authority shall be fixed and flashed in accordance with manufacturers instructions and to the satisfaction of the lending authority. Weatherboards with laps as specified by the relevant AS shall be hardwood pressure treated radiata pine or slash pine cypress pine baltic pine or western red cedar. The boards shall have a maximum moisture content of 15% be in long lengths with staggered end joints securely nailed and fitted with angle stops. Western red cedar used externally shall be fixed with galvanised or cadmium plated fasteners. Boards exceeding 100mm in width shall be double fastened at all bearings. All boards shall be primed or sealed all around including rebates and ends before fixing. Where vertical boarding is used it shall be fixed to battens at not more than 600mm centres and sarking acceptable to the lending authority placed behind the battens to provide air space and fixed to the frame work with adequate provision for discharge of moisture. External boarding shall be in one length or have joints specially designed for external use.

FIBRE CEMENT
a) Flat Sheeting Fibre cement sheeting shall be not less than 4.5mm thick and close jointed to full height of walling or above sill level where weatherboard dadoes are specified. Horizontal joints shall be flashed with 0.42mm galvanised steel turned up 13mm against stud faces and down 12mm over sheet faces. Iapped 25mm at joints. Internal angles of walls shall be flashed with 38mm x 38mm x 0.42mm minimum base thickness galvanised steel angles or bitumen coated metal flashing to full height of studs and lapped 50mm at joints. All vertical and horizontal joints and angles shall be covered with timber fibre cement mouldings as approved by the lending authority. Trimmers of not less than 75mm x 38mm timber shall be provided between ends of floor bearers to support lower edge of sheeting.
b) Profiled sheeting and Weatherboard. As approved by the lending authority shall be fixed and flashed in accordance with the manufacturers instructions and to the satisfaction of the lending authority.

INTERNAL LININGS
Line all internal walls not specified as otherwise with Gypsum plaster board fixed horizontally in full length sheets or with staggered end joints to ceiling height. Sheets to have recessed edges and of thickness as recommended by the manufacturer for the stud-batten or support spacing. Fixing is to be with galvanised clouts, manufacturer approved screws and/or approved adhesive and be strictly in accordance with manufacturers instructions. Set all internal angles. Note Where below 1200mm in laundry bathroom and W.C. and at back of kitchen sink unit and below 1800mm in shower recess, only approved water repellent sheet shall be used. Note Adhesives must not be used to fix sheets in tiled areas.

Sheets shall not be less than 4 5mm thick except where tiled. Sheets to be tiled shall not be less than 6mm thick. Where flush jointing is required fibreboard sheets shall be used fixed and jointed in accordance with manufacturers instructions.

CEILING LININGS

Provide Gypsum plaster board to all internal ceilings unless otherwise specified. Sheets to have recessed edges and to be 10mm thick when fixed to ceiling battens/joists spaced at not more than 450mm and 13mm thick for 600mm spacings. Fixing is to be with galvanised clouts and/or approved adhesive and is to be in accordance with manufacturers recommendations as approved. Provide selected cornices, neatly mitred properly fixed and scrimmed and set at all joints in full wall lengths where practicable. Gypsum plaster board for ceilings and walls shall be as per AS2589. Sheets of different thickness may be used at other spacings where their manufacture and installation complies with the Deemed to Satisfy Provisions.

PLASTER AND RENDER

To all brick walls not specified as feature brickwork or otherwise (with exception of garage) apply render to minimum thickness of 12mm. Render to consist of one part fresh cement to 3 parts clean sand with 10 per cent hydrated lime added. Use only whilst fresh. All brickwork to be well wetted before plastering is commenced. Point up all flashings externally with cement mortar and make good as required after other trades.

JOINERY
Joinery timber is to be of species seasoned and free from those defects that might effect its appearance and/or durability. All to be D.A.R. accurately cut and fitted properly mitred and scribed as required and securely fixed. All surfaces to be left free of mill marks or other defects filled where necessary and ready for painting or staining. Where wood plugging is required it shall be a suitable species properly seasoned.

DOOR FRAMES – BRICK BUILDINGS

Shall be at least 100mm x 50mm solid rebated properly dowelled to thresholds. Mullions shall be 75mm thick and double rebated.

JAMB LININGS – INTERIOR DOORS ALL BUILDINGS EXTERIOR DOORS TIMBER FRAMED AND BRICK VENEER.

Linings shall be a minimum of 38mm thick solid rebated to all door openings. Where return plaster reveals occur linings shall be 75mm x 50mm rebated. Alternatively for internal doorways 25mm linings may be used with 12mm planted stops. In brick veneer and timber framed construction 12mm clearance shall be provided over jamb linings to external openings. Linings to openings not having doors or to have swing doors are to be 25mm thick timber securely fixed. Other proprietory linings may be approved by the owner.

DOORS — Fit accurately to door frame. Hang external doors with three 88mm steel butts and internal doors unless otherwise specified with two 88mm steel butts. External doors shall not be less than 2040mm x 820mm x 40mm thick. Where sheeted with plywood waterproof plywood only shall be used. All framed glazed doors (external or internal) shall be minimum of 40mm thick. Internal doors shall be minimum of 35mm thick and free of warping.

free of warping

WINDOWS AND FRAMES In brick veneer construction 10mm clear space shall be left between underside of sill and brickwork. In two storey construction with hardwood timber framing the clearance shall be increased to 20mm.

INSTALLATION

NSTALLATION
All windows shall be installed in accordance with the requirements of AS2047-48 for Aluminium windows and AS2146-47 for timber windows
STAIRS HANDRAILS AND BALUSTRADES BCA 3 9 1 and 3 9 2
Stairways shall be constructed to the layout as shown on plans with treads of equal dimensions except where shown or where winders are required
All risers in any flight shall be of equal height. All flights shall have a minimum of 2 and not more than 18 risers. Vertical clearances above stairs shall
be 2000mm min to soffit of floor or structure above when measured vertically above nose of tread. Relationship of riser to going shall be between
12 and 1 1 35 unless otherwise directed or as permitted in AS1657. Balustrades shall be provided to all landings decks roofs other elevated
platforms where the vertical distance from that level is more than 1 metre above the adjoining floor or finished ground level. Height of the balustrade
must be a minimum of 1 metre above landings etc. and not less than 865mm above the nosings of any stair treads or floor of a ramp. Openings in
balustrades (decorative of otherwise) and space between treads eg. riser opening must not allow a 125 mm dia sphere to pass through. Resistance
to loading forces of a balustrade must be in accordance with A S. 1170. Materials and finish of handrails, newel posts and balustrading shall be as
directed or agreed by owner. Where balustrades are constructed of tensioned wires provision shall be made to maintain tension applied.

ACCESS AND MOBILITY

Where access and mobility requirements are to be addressed in the construction of a new building AS1428.1 General Requirements for Access – New Building Work contains the minimum design requirements to enable access for people with disabilities. Revision of the BCA in order to address requirements of the Disability Discrimination Act (DDA) as applies to the construction of buildings with public areas will require that the latest revision of AS1428 should be used.

PLUMBING AND DRAINING BCA part 3 5 2
EAVES GUTTERS VALLEY GUTTERS AND DOWNPIPES
Eaves gutters and downpipes of material and finish as nominated on drawings shall be installed as per manufacturers specification to all eaves as required with falls to downpipes in positions shown and to comply with AS/NZS 2179 Valley gutters of material compatible roof covering to comply with BCA 3 5 2 4
FLASHINGS

Flash around chimney stacks exhaust flues and wherever else required with approved flashings dressed well down onto roof slopes and taken vertically at least 75mm Wedge step flashing into brickwork joints and point up with cement mortar. Eaves gutters valleys and roof flashings shall be selected from materials compatible with each other and the roof covering to prevent bi metallic corrosion. (See BHP publications TB8 TB15). Use of lead for flashings gutters downpipes and roofing is prohibited if the roof will collect potable water.

WATER SERVICES.

Where a retrculated water supply is available all work shall be carried out by a licensed water plumber. All water supply installations shall be carried out in accordance with AS3500 National Plumbing and Drainage Code
RETICULATED RECYCLED WATER

Where a utility supplied reticulated recycled water supply is connected as a dual reticulation it is important that no cross connection between the potable and recycled water can occur. There must be at least one external tap for each system and the recycled water system must have lilac coloured components. Identification markings and signage shall be installed as per AS1319 and AS1345. Recycled water cannot be used for human consumption or contact. household cleaning, personal washing or irrigation where fruit and crops are eaten raw or unprocessed.

WET ROOM FLASHINGS BCA 3 8 1
Waterproofing of wet areas shall be designed and installed in accordance with requirements and construction techniques as per AS3740 and appendix for wall/floor combinations. All waterproofing installations are to be inspected and approved prior to covering where waterproof membranes are used in the construction of wet area membranes shall comply with AS/NZS4858
HOT WATER SERVICE

All installations must comply with AS3500 4 Provide from H/water unit with selected tubing to points necessary Terminate with taps selected Provide inlet stop cock to hot water unit GAS SERVICE

The whole of the work is to be carried out as per requirements of the Local Supply Authority. The plumber is to be responsible for the gas service from boundary alignment including fixing of the meter and cover for same. Installations for bottled gas supply shall comply with the relevant standard HEATING APPLIANCES BCA 3.7.3 Domestic type Oil. Gas and Solid Fuel heater installations shall comply with AS2918 Domestic solid fuel burning appliances. Installation or AS1691 Rules for installation of domestic Oil Fired appliances as applicable. Installation of gas fired appliances shall be carried out by a licensed gas plumber.

SEWERED AREAS.

Provide a drainage system from pedestal pan and from wastes of all fittings unless a grey water system is to be installed and connect to the sewer main where shown on site plan all to be in accordance with the rules and requirements of the Authority for Water Supply and Sewerage Provide at least one gully outside the building. The Authority Certificate to be produced at Completion of the Work.

UNSEWERED AREAS

Provide a drainage system from all fittings and from grease trap in accordance with the requirements of the Local Authority concerned. Excavate for drains to provide even falls throughout and a minimum cover of 300mm. Lay 100mm socketed vitrified clay. P.V.C. or HDPA pipes to take discharge from wastes of washtubs bath shower washbasin and grease trap. All pipes to be completely jointed with rubber rings or solvent cement as approved. All drain lines to be laid so that water is discharged into an absorption trench provided in position shown on plan. Provide an approved grease trap with lid in position shown to take the water from kitchen sink. Top of trap to be 75mm above finished ground or nearby concrete paving level. All drainage work from fittings to the drainage line outside the building to be in accordance with the rules and requirements of the Water Supply and Sewerage Authority for sewered areas. That Authority. Special Inspection. Certificate of the work to be produced by the builder. All plumbing and drainage shall be in accordance with the Code of Practice for state or territory and regulating local government area.

GREYWATER REUSE SYSTEMS.

Where a greywater reuse system is proposed the installation shall comply with the following Australian Standards and Codes. AS1546 parts 1 and 3.

Where a greywater reuse system is proposed the installation shall comply with the following Australian Standards and Codes AS1546 parts 1 and 3 AS1547 NSW Health 1998 AWTS guideline NSW Health 2000 Domestic greywater treatment guidelines and sewered single domestic premises An on site greywater reuse system is not permitted in Reticulated Recycled water areas Domestic Greywater Treatment Systems (DGTS) and Aerated Wastewater Treatment Systems (AWTS) require a certificate of accreditation from NSW Health

In position shown on site plan provide and install septic system as nominated by the proprietor together with a holding tank and length of absorption trench installed in accordance with the manufacturers instructions and the requirements of the Local Authority Installations shall comply with AS1546 part 1

STORM WATER TREATMENT METHODS

STORM WATER TREATMENT METHODS

Provide roof water drains from downpipes and from grates in paving where shown on site plan. Drains to be 100mm socketed vitrified clay pipes or PVC laid to an even and regular fall so as to have a minimum cover of 150mm. Drains to discharge into street guiter where possible. Where outlets are shown within the site they are to discharge at least 3000mm clear of the building into rubble packing 600mm diameter and 600mm deep Acceptable solutions for stormwater drainage to be as per AS/NZS3500 part 3. Stormwater treatment systems should satisfy the following performance requirements.

1. Conserve Water 2. Prevent Increases In Flooding/Erosion 3. Maintain water balance 4. Control Stormwater Pollution. Systems suitable for detached dwellings are Roof/rainwater tanks. Detention devices. Infiltration devices and Filter strips. These are also suitable for multi-dwelling developments in addition to Stormwater tanks and Bio retention devices.

RAIN WATER TANKS.

Install rainwater tanks of selected material on slab or support as nominated by tank manufacturer. Rainwater tanks may be trickle topped up (max 2litres/minute) from a potable water supply main and internally reticulated. A dual supply system should have no direct or indirect connection between the mains potable supply and the rainwater tank supply Inground concrete tanks may be installed as an option with a suitable pressure with a dual check valve is to be installed and a visible air gap between the mains supply and the rainwater tank as per AS3500 and AS2845.2.1 (See NSW Health circular. Use of rainwater tanks where a reticulated mains water supply is available).

NOTE: Drain pipes must not be taken through the footings of the building. All seepage and soakage water is to be effectively dealt with and diverted clear of the buildings as shown on site plan. Trenches for drains where running parallel to the building must not be within 600mm of the footings of the building.

WALL AND FLOOR TILES

For guidance on installation of ceramic tiles see recommendations as set out in AS3958 parts 1 and 2 WALLS

Cover the following wall faces with selected glazed tiles
To bathroom generally to a height of 135mm
To bath recess to a height of 1350mm

To shower recess to a height of 1800mm
To enclosing of bath and hobs
To WC to height of one row of tiles or as directed

Above kitchen sink/s and cooking area/s allow for four rows tiles. Finish at top and salient angles with round edge tiles. Provide vent tiles and selected recess fittings. Tiles to be fixed to a backing of Fibre Cement with approved adhesive. Areas for tiles can be increased by proprietors direction or as noted on plans.

Cover floors of bathroom shower recess WC and ES with selected ceramic tiles set in cement mortar or approved adhesive and graded to give an even and adequate fall to floor waste

PAINTING
All paints stains varnishes and water colours are to be of approved brands as selected. Materials used for priming and undercoating are to be the same brand as the finishing paints or as recommended by the manufacturers of the finishes used. All finishing colours are to be selected by the proprietor. Do all necessary stopping after the priming has been applied. Rub down all surfaces to a smooth finish prior the application of each successive coat of paint. External joinery or other exposed woodwork to have a clear plastic finish is to be treated with a priming oil containing wood preservative and a water repellent.

EXTERNALLY All external woodwork to be given one coat of primer one coat of oil based undercoat and one coat of gloss finish enamel or to be given one coat of clear primer one coat of flat clear plastic and one coat of clear plastic.

PRIMING WEATHERBOARDS. Any Pine is to be primed all round as well as on the ends before fixing. Hardwood cypress pine radiata pine and oregon are to be primed on external faces including rebates before fixing pressure treated Canada pine is to be primed at ends before fixing.

IRONWORK

Eaves gutters downpipes exposed service pipes and wrought iron etc. to be cleaned and primed and give one coat of gloss paint all round FIBRE CEMENT. Clean and prepare all external fibre cement surfaces and finish with two coats of water based paint.

INTERNALLY

All exposed woodwork in kitchen bathroom laundry WC EC to be prepared primed and then given one undercoat and finished with one coat of full gloss paint or to be stained and finished with two coats of clear liquid plastic as selected gloss paint CEILINGS

To be given one coat of sealer and two coats of paint. The finishing coat of bathroom, laundry, and kitchen ceilings to be semi gloss (unless directed otherwise)

WALLS. All rooms except bathroom, laundry, and kitchen to be given one coat of sealer and two coats of water based paint. To bathroom, kitchen, WC EC and laundry, where no tiled or pre surfaced material is required, walls are to be given one coat of sealer, one coat of undercoat and one coat of gloss oil paint system.

GLAZING BCA part 3 6
All sashes doors fixed lights and other glass in building shall be selected and installed by procedures as set out in AS1288 and/or AS2047 for type thickness and area of glass according to wind loading human impact and other considerations for glazing in frames of timber steel stainless steel aluminium and bronze according to type of frame height of building and glazing compound and for design and glazing of unframed toughened glass assemblies. Specific attention should be made to the selection of frame materials glazing location in walls and orientation to the path of the sun for various climate zone. Where windows are not shaded by roof eaves or other building projections, advice by an approved specialist or manufacturer should be sought to ensure that all installations comply with the Energy Efficiency requirements of the BCA.

FENCING

Provide paling fence 1500mm height to side and rear boundaries. Posts to be 125 x 50mm in sawn approved durable hardwood morticed for two rails and sunk into ground 600mm at maximum of 2700 mm. Posts at angles in fencing to be 125mm square. Well ram around posts. Where rock is encountered posts are to be set in concrete. Fit two rows of 75 x 50mm hardwood rails into mortises. Cover framing with hardwood palings. Double nail to rails at top and bottom. Cut line at top and lop corners. All timber in ground or concrete to be well tarred or treated with an approved preservative. Allow for repairing any existing recommendations of the manufacturer.

FRONT FENCING.

For buildings to be constructed in an alpine area compliance with the requirements of BCA part 3.7.5 is required. Alpine areas are areas above Australian Height Datum (AHD) as follows. NSW VIC ACT above 1.200 metres AHD. TASMANIA above 900 metres AHD. For sub alpine areas where significant snow loads may occur see BCA fig. 3.7.5.2 Where snow loads may be applied to a building design according to AS1170.3 is required. (see BCA 3.11.3)

EARTHQUAKE

Earthquake probability shall be determined to BCA3 11 3 and loading requirements designed to comply with AS1170 4

The area to be landscaped shall comply with the landscape plan and requirements of the Local Council Authorities. Appropriate landscape design will reduce water usage in lawns and gardens by up to 50%. Selection of native (indigenous plants suited to the local micro climate along with exotic species from California. South Africa and the Mediterranean will normally require minimal maintenance and water use. (BASIX website see table D.2.1 for indigenous plants in various local government areas).

CAR PARKING All car parking and loading bays to be kerbed guttered sealed drained line marked and landscaped Drainage of surface water into neighbouring properties is NOT permitted except where an easement is obtained. All car parks shall comply with the provision of Local Council Authorities

COMPLETION

The building shall be completed in every trade. Sashes doors locks and all other equipment shall be checked and left in a satisfactory operating condition. Timber floors shall be at least rough sanded. Where fine sanding is specified see CA39. Code of practice for sanding interior wooden floors. All plant surplus materials and rubbish is to be removed from site. Gutters and drains shall be cleared and the building generally to be left clean and fit for occupation.

The Builder is to furnish the Owner with

1. Notification of Completion.

2. All Keys for all doors.

3. Certificate of termite protection treatment.

It is the responsibility of the builder to arrange any inspections, pecessary by Local Council, Waterboard or Lending Authorities and/or Principal.

It is the responsibility of the builder to arrange any inspections necessary by Local Council Waterboard or Lending Authorities and/or Principal Certifying Authority
It is the responsibility of the Owner to apply to Local Supply Authorities for connection of Electricity from mains to meter box

APPROVAL TO OCCUPY MUST BE OBTAINED

BASIX The Building Sustainability Index - (NSW only)

This is a planning tool that measures the performance of a new dwelling (residential) by comparing its potential to consume less mains water supply and energy than an existing average home

Sustainability Indices are assessed for Energy Water Usage and Thermal Comfort. The policy also factors in Stormwater reuse and Landscaping, but does not score these

NSW Government targets of a reduction in mains potable water consumption and reduction in Greenhouse Gas emissions can be achieved by dwelling design and sustainability features. These features may include design elements such as recycled water rainwater tanks ***min rated shower heads taps and toilets. Heat pump or solar water heaters gas space heaters eaves awnings and insulation of walls ceilings and roofs

A BASIX Certificate must be submitted with Development Application Complying Development Certificate and Construction Certificate applications for all of NSW for new homes and for some alterations and additions

Data required to Complete a BASIX Assessment is described in the BASIX Data Input checklist and this should be used in conjunction with the BASIX Assessment Tool

Extracts from BASIX are reproduced by courtesy of DIPNR

Information shown in this specification is intended as a guide only. Applicants for DACC and CDC must submit a BASIX Certificate that can be generated in the Department of Planning website www basix nsw gov au

SUGGESTED ENERGY SAVING METHODS CAN BE

Use of gas for heating hot water and cooking Both indoor and outdoor clothes drying lines Installing To improve the efficiency of the refrigerator by ensuring there is adequate air passing over the refrigerant coils Installing energy saving light bulbs

The refrigerator would be completely freestanding or at least one side or the top of the refrigeration space is completely open

Ensure that public health and the environment are not adversely affected
 Minimise the adverse impact on the amenity of the premises and provide for the reuse of resources
 GREYWATER DIVERSION DEVICES (GDD)

A greywater diversion device must be in accordance with the NSW Health's Greywater requirements

DOMESTIC GREYWATER TREATMENT SYSTEMS (DGTS)must be

greywater treatment system device that is accredited by NSW Health in accordance with the DTGS Accreditation Guideline or

An aerated wastewater treatment system (AWTS) accredited by NSW Health or

A facility that is purposed designed for a particular premises and has Local Government (Approvals) as per Regulation 1999

THERMAL COMFORT

PERFORMANCE REQUIREMENTS (CAN BE ASSESSED BY THREE DIFFERENT METHODS)

Option 1 RAPID Meet conditions listed in 10 questions within the BASIX Data Input checklist

NOTE only for simple single storey homes (usually) brick veneer dwellings

Option 2 DO IT YOURSELF (D I Y) tick box questions on Construction type details of floors walls ceilings roof windows and skylights cross ventilation

Option 3 SIMULATION METHOD Assessments of the thermal performance of the dwelling undertaken through the Simulation method Assessments are to be conducted by an accredited assessor using approved software

				/ / Builders Lic	BUILDER		
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PRECONDITIONS The total area of all skylights must not occupy more than 2% of the gross floor area	(a) Living a (b) Bedroo GLAZING AND (a) Orienta	area cross ventilation 1 The total area of ve 2 Openings must be j om cross ventilation	entilation openings in all livi	na areas must be greater			

MASONRY CONSTRUCTION	Clay Bricks Concrete Bricks		Face Concrete Blocks	<u></u>		Commons AAC Blocks			Stone AAC Panels	
MODELD JOBET	Rendered	LJ	Bagged	누	╡	Painted		H	D red	
MORTAR JOINTS SILLS	Colour Brick	5 3	Ironed Quarry Tiles	F	╡	Flush			Raked	
EXTERNAL WALL SHEETING	Timber Cladding Type	5	Fibre Cement Claddi Type	ıng [5	Metal Cladding Type			PVC/Vinyl Type	
FLOOR CONSTRUCTION	Timber		Concrete	E]	Pre Str Beam Floo	r		Steel	
FLOORING	T&G		Species			Compressed FC SI	heet		Structural Plywood	
	Particle Board		Tiles Ceramic]	Terra Cotta			Quarry	
DECKING	Treated Pine		Other							
WALL FRAMES	Timber		Hardwood]	Pine			H S Galv Steel	
	Structural Steel		Off site prefabricated	, []	Onsite cut/assembl	led			
ROOF CONSTRUCTION	Pitched Roof		Exposed Rafters	Ξ]	Oregon			Hardwood	
	Roof Trusses	닏	Raked Ceiling	L	لـ	Pine		Ш	Steel Framing	\sqcup
	Flat/Skillion	님		_	_			_		
ROOF COVER	Concrete Tiles	님	Terra Cotta Tiles	Ļ	4	Shingles/Slate		爿	Corrugated FC	Ш
	Zincsalume	님	Colorbond	L	J	Polycarbonate		Ш	Profile	
THERMAL INSULATION	Roof/ceiling	님	Reflective Insulation	-					Rating R	
	Walls	片	Reflective Insulation	•					Rating R	
	Floors	片	Reflective Insulation		- 7		Bulk Ins	sulation	n Rating R	
INTERNAL WALL LININGS	Gypsum Plasterboard	片	FC Sheeting	_	٦	Timber Panelling		Ц	Cement Render	Ш
MET AREA LININGS	Face Brick	H	Other	Г	٦	Turkey Decelling		П	Laminated Danal	П
WET AREA LININGS	WR Gyp Plasterboard	Ħ	Villaboard	F	Ŧ	Timber Panelling		Ħ	Laminated Panel	
CEILINGS CORNICE	Gypsum Plasterboard Type	ш	Timber Panelling Size			FC Sheeting		_		
DOOR JAMBS	Timber		Galvanised Steel	ww [7					
WINDOWS	Timber	\Box	Aluminium	Ē	₹	Type/Manufacturer				
FLYSCREENS	Timber		Aluminium	Ē	3	Other				
JOINERY	Timber		Species			Stained/Polished			Other	
	Architrave Size	mm	Skirting Size	mm		Material				
	Kitchen Cupboards		Ť			Stained			Painted	
	Front Door Type					Stained			Painted	
	Other External Doors 1	уре				Stained			Painted	
	Internal Doors Type					Stained			Painted	
	Garage Door Type					Size	mm	·	Colour	
EXTERNAL STAIRS	Timber	닏	Steel	<u>_</u>	Ţ	Concrete		Ц	Brick	
INTERNAL STAIRS	Timber	LJ	Steel	Ĺ.	J	Concrete		Ш	Brick	Ш
	as manufactured by					Balustrade type				
ELECTRICIAN	Provide		Light Points			Single Switches			Two way switches	
		Power Ou		Single)		Do	uble		
		Light fitting	-	Γ-	7	Smoke Detectors			Exhaust Fans	
ROOF PLUMBER	Quad Gutters (size)	片	Box Gutters	L.,	╡	Sheerline Gutters		뭄		
GUTTERS/DOWNPIPES	Downpipes 100 x 50	片	100 x 75	늗	╡	100 x 100		片	Round dia	$\overline{}$
	Colorbond	H	PVC	F	╡	Copper		Ш	Zıncalume	Ч
WATER SERVICE	Aluminium Copper pipe	Ħ	Galvanised PVC Pipe	F	Ŧ	Elan ann ann an		\Box		
RETICULATED RECYCLED WATER	All Reticulation System	s for Recy	•	سا کاموردار	⊒ olouz	Flex pipe system	morken			П
RAINWATER STORAGE TANKS	Type	3 101 11CCy	Size	(kl)	oioui	Nos	markii	iys	Pressure Pump	Ħ
STORMWATER STORAGE TANKS	Туре		Size	(kl)		1405			riessale rump	ш
HOT WATER SERVICE	Electric		Gas	,,,,,]	Solar		П		
	Mains Pressure		Gravity Fed	Ē	Ĩ	Cylinder capacity	lrtu	res		
INTERNAL SEWER SERVICE	Copper		PVC]	- y				
DRAINER	Sewer connection		Septic System]	Aerated System			Greywater diversion	
	PVC pipes		Vitrified clay pipes]	Copper pipes			•	
FENCING	Brick		Paling]	Rail			Brushwood	
	Front Boundary		Side Boundary		3	Rear Boundary			Colorbond	
	As manufactured by				_	Туре		_		
POOL	Туре		Inground		j	Above Ground		ĹĴ	Pool Cover	
This Schedule is to be	e fully completed item	s applical	ole should be marked	litems	s wit	h blank spaces will	NOT I	e incli	uded in the works	
PROPRIETOR		BUII	LDER					DATE	/ 200	0
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SCHEDULE OF RATE / P.C. ALLOWANCES AND MATERIALS

	ITEMS		MODEL OR TYPE	PRIME COST	
1	CONCRETE PIERS TO FOOTINGS			\$	
2	ROCK EXCAVATION per cubic metre			\$	
3	AGRICULTURAL DRAINS per lin me	tre		\$	
4	STORMWATER			\$	
5	SEWER CONNECTIONS			\$	
6	CERAMIC TILES WALL \$	PER M2 S/O		\$	
	S/O=SUPPLY ONLY FLOOR \$	PER M2 S/O		\$	
	QUARRY \$	PER M2 S/O		\$	
7	SEPTIC INSTALLATIONS			\$	
8	GREYWATER TREATMENT INSTALL	ATION		\$	
9	BATHROOM VANITY & CABINET			\$	
10	EN SUITE VANITY & CABINET			\$	
11	BASIN			\$	
12	ватн			\$	
13	TOWEL RAILS			\$	
14	SOAP HOLDERS			\$	
15	MIRRORS			\$	
16	TOILET SUITES			\$	
17	SHOWER SCREENS			\$	
18	LAUNDRY TUB			\$	
19	STAINLESS STEEL SINK			\$	1
20	KITCHEN CUPBOARDS			\$	
21	OVEN			\$	
22	HOT PLATES			\$	
23	STOVE			\$	
24	DISHWASHER			\$	
25	EXHAUST FANS			\$	
26	RANGE HOOD			\$	
27	HOT WATER UNIT			\$	
28	SMOKE/FIRE DETECTORS			\$	
29	PHONE WIRING/FAX WIRING			\$	-
30	T V WIRING/COMPUTER WIRING			\$	
31	INTERCOM WIRING			\$	
32	SECURITY INSTALLATION			\$	
33	AIR CONDITIONING SINGLE UNIT			\$	
34	INTERNAL VACUUM SYSTEM			\$	
35	FRONT GATE			\$	
36	FRONT FENCE			\$	
37	CLOTHES HOIST			\$:
38	CONCRETE PATHS per lin metre			\$	-
39	GARAGE DOOR REMOTE CONTRO	L		\$	
40	LANDSCAPING (As per Design Supp	olied)		\$	
41	UNIT PAVING			\$	
42	RAINWATER TANKS			\$	
43	RETICULATED RECYCLED WATER	SYSTEM		\$	
44				\$	
45				\$	
46				\$	

Where there are additional items or different types of the same item a duplicate list should be added and agreed on by the proprietor and builder

NOTE The builder is to allow Prime Costs amounts of items set out in this Schedule above. All items to be selected by Owner. The Builders tender is to include the provision of all items, including the cost of cartage, freight, fixing and fitting as part of his contract. Adjustment for substituted fittings will be made on the basis of the prevailing retail price.

PROPRIETOR	BUILDER	DATE / /

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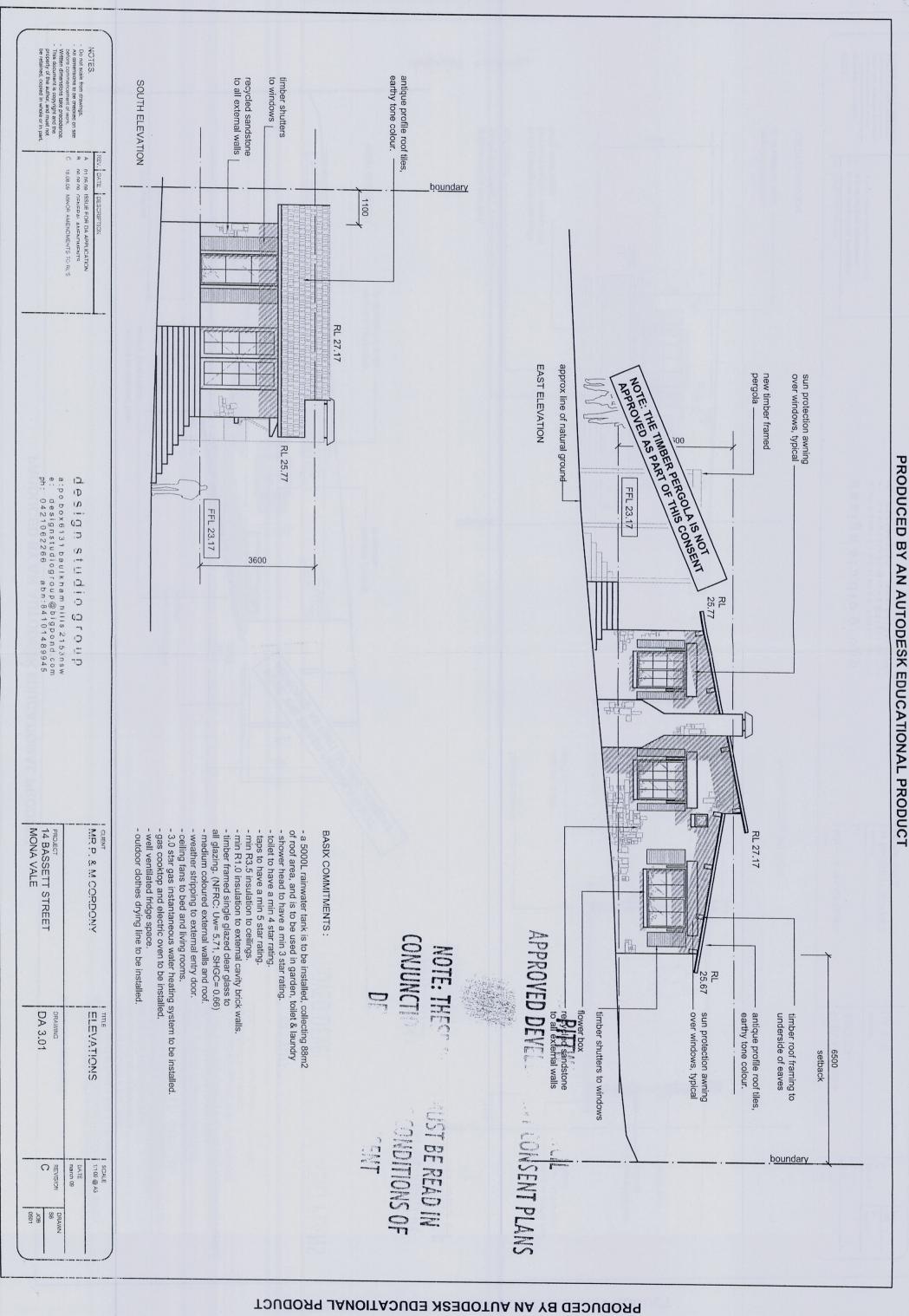
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PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT NOTE: ALL WEATHER PAVED PARKING AREA FOR 2 VEHICLES THAT COMPLIES WITH THE REQUIREMENTS OF DCP 21 NOTES: 01.05.09 ISSUE FOR DA APPLICATION 06.08.09 GENERAL AMENDMENTS No. 16 2 Storey Brick & Weatherboard Residence Tiled Roof existing concrete strip driveway to be retained single vehicle parking space for secondary dwelling PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT a:po box6131 baulkham hills 2153nswe: designstudiogroup@bigpond.comph: 0421062266 abn:84101489945 design studio group BOUNDARY existing clothes line and concrete paths to be retained existing dwelling to be retained existing tree to be removed 199° No. 12 1 & 2 Storey Weatherboard Residence Fibro Roof 56 00" 80.01 (3) 14 BASSETT STREET MONA VALE MR.P. & M. CORDONY proposed location of secondary dwelling existing chicken pen to be demolished — 19° 56 DA 1.02 OVERALL SITE PLAN 88.315 BOUNDARY

109°

56' 00"

15.24

Area 1282.5 m

REVISION

SB JOB JOB

