



01 February 2017

The General Manager Northern Beaches (Pittwater) PO Box 882 MONA VALE NSW 1660

Dear Sir/Madam.

6-14 MACPHERSON STREET, WARRIEWOOD NSW 2102 DEVELOPMENT APPLICATION NO: N0267/13, N0267/13/S96/1, N0267/13/S96/2 & N0267/13/S96/3 INTERIM OCCUPATION CERTIFICATE NO: 142440/1 DATE DETERMINED: 01/02/17

As required by clause 151(2) of the EP&A Regulations 2000, notice is hereby given of the determination of the following application:

Interim Occupation Certificate No. IOC 142440/1

Please also find enclosed a cheque for Council's registration fee along with a CD containing the following documentation:

- Application for Occupation Certificate
- Record of critical stage inspections
- Compliance certificates
- Record of inspections
- Other documents relied upon

Should you need to discuss any issues, please do not hesitate to contact the Project Building Surveyor Clayton Votano on 8270-3500.

Yours faithfully

Brendan Bennett **Managing Director**

Encl

PRVC \$36-000 Rel: 407058
SEXST. SYDNEY NSW 2000 07/02/2017

SUITE 6.02, 120 SUSSEX ST, SYDNEY NSW 2000 TEL +61 2 8270 3500 FAX +61 2 8270 3501 WWW.CITYPLAN.COM.AU

N:\CPCERTIFICATION\CERTIFICATION TEMPLATES\OC INTERIM LETTER COUNCIL.DOC

PIAN SERVICES

PLANNING BUILDING HERITAGE URBAN DESIGN PLAN SERVICES

TELEPHONE +61 2 8270 3500 FACSIMILE +61 2 8270 3501

SUITE 6.02, 120 SUSSEX STREET

* SYDNEY NSW 2000 WWW.CITYPLAN.COM.AU

PLEASE SEND A RECEIPT FOR TAXATION PURPOSES



6-14 Macpherson Street, Warriewood NSW 2102 Interim Occupation Certificate No. 142440/1



INTERIM OCCUPATION CERTIFICATE NO. IOC 142440/1

Issued under Part 4A of the Environmental Planning and Assessment Act 1979 Sections 109C(1)(C) and 109H (Occupation/Use of a New Building)

APPLICANT

Name:

Address of applicant:

Contact Details:

lan Vallentine - Anglican Retirement Villages

PO Box 284, Castle Hill NSW 1765

Phone: (02) 8421 5323

RELEVANT CONSENTS

Consent Authority/Local Government Area:

Development Consent No:

Date of Development Consent:

Construction Certificate No:

Date of Construction Certificate:

Northern Beaches Council (formerly Pittwater) N0267/13, N0267/13/S96/1, N0267/13/S96/2 &

N0267/13/S96/3

20/02/14, 15/04/15, 09/02/16, & 05/10/16 CC 142440, CC 142440/1, CC 142440/2 &

CC 142440/3

25/06/14, 25/03/15, 21/05/15 & 24/10/16

PROPOSAL

Address of Development:

Lot & DP No:

Building Classification:

Type of Construction:

Scope of building works covered by this Certificate:

Attachments:

Fire Safety Schedule:

Exclusions:

Date of Application for Interim Occupation Certificate:

Date Application Received:

6-14 Macpherson Street, Warriewood NSW 2102

Lots 1, 2, 3, 4 & 5 DP 1161389

Class 1a

Type N/A

ILU's 34-39 and associated driveways, paths and

landscaping.

Schedule 1

N/A

Remainder of works.

13/01/17

13/01/17

PRINCIPAL CERTIFYING AUTHORITY

Brendan Bennett for and on behalf of

City Plan Services Pty Ltd

ACCREDITATION BODY

BPB 0027

That I, Brendan Bennett, as the certifying authority, for and on behalf of City Plan Services Pty Ltd certify that:

• A current Development Consent is in force with respect to the building:

A Construction Certificate has been issued with respect to the plans and specifications for the building;

• The health and safety of the occupants of the building has been taken into consideration;

• The building is suitable for occupation or use in accordance with its Classification under the Building Code of Australia;

 Where required, a final Fire Safety Certificate has been issued for the building or an Interim Final Fire Safety Certificate has been issued for the relevant part of the building;

Where required, a report from the Commissioner of Fire Brigades has been considered.

DATED THIS

day

of

February

2017

Brendan Bennett

Managing Director

Right of Appeal: Under s109K where the Certifying Authority is Council an applicant may appeal to the land & Environment Court against the refusal to issue an Occupation Certificate within 12 months from the date of the decision.



SCHEDULE 1

1. Building Component Measures.

Installation	Certified by	Reference	Date
Installation Certificate	CQ Solutions Pty Ltd	-	10/01/17
- Hydraulic works			
Installation Certificate	Discount Clotheslines	=	10/01/17
- Clothesline			
Installation Certificate	PBS Building (NSW)	-	12/01/17
- BASIX Commitments & Thermal Comfort	Pty Ltd		
Installation Certificate	TGB Electrical Pty Ltd	-	23/01/17
 Electrical & mechanical works 			
- Smoke alarm			
Installation Certificate	Eureka Sustainability	-	17/01/17
- Insulation work	Group		
Compliance Certificate	Airfoil	-	-
 Insulated flexible duct 			
Compliance Certificate	Airfoil		-
- Flexible nude core duct			
Installation Certificate	SRC Contracting Pty	-	20/01/17
- General earthwork	Ltd		
Certificate of Compliance	Rentokil Termite	=	27/05/16
- Termite protection (ILU 34)	Barriers		
Certificate of Compliance	Rentokil Termite	-	27/05/16
- Termite protection (ILU 35)	Barriers		
Certificate of Compliance	Rentokil Termite	-	27/05/16
- Termite protection (ILU 36)	Barriers		
Certificate of Compliance	Rentokil Termite	-	27/05/16
- Termite protection (ILU 37)	Barriers		
Certificate of Compliance	Rentokil Termite	-	27/05/16
- Termite protection (ILU 38)	Barriers		
Certificate of Compliance	Rentokil Termite	•	27/05/16
- Termite protection (ILU 39)	Barriers		
Installation Certificate	All Concrete SLD Pty	-	11/01/17
- Concrete works	Ltd		
Installation Certificate	Helcon Contracting	-	24/01/16
- Screw pile work	Australia Pty Ltd		
Installation Certificate	Global Bricklaying	-	12/01/17
- Masonry works	Holdings Pty Ltd		
Installation Certificate	Renrow Steel	-	16/01/17
- Structural steelwork			
Installation Certificate	RGM Carpentry	-	11/01/17
- Carpentry works			
Installation Certificate	Trueform Frames &	9013	11/09/15
- Roof trusses (ILU 34)	Trusses Pty Ltd		
Installation Certificate	Trueform Frames &	9013	11/09/15
- Roof trusses (ILU 35)	Trusses Pty Ltd		
Installation Certificate	Trueform Frames &	9013	11/09/15
- Roof trusses (ILU 36)	Trusses Pty Ltd		,
Installation Certificate	Trueform Frames &	9012	11/09/15
- Roof trusses (ILU 37)	Trusses Pty Ltd	3012	11/00/10
Installation Certificate	Trueform Frames &	9013	11/09/15
- Roof trusses (ILU 38)	Trusses Pty Ltd	0010	11/03/13
Installation Certificate	Trueform Frames &	9013	11/09/15
- Roof trusses (ILU 39)	Trusses Pty Ltd	3013	11/09/15
- KOOT TRUSSES (II LL 39)	HUSSES PIV LIO		



Installation Certificate	All Aspects Roofing &	-	24/01/17
 Metal roofing work 	Gutters		
Installation Certificate	RGM Carpentry	-	25/01/17
- Windows			
Compliance Certificate	Blue Mountains	-	19/04/16
- Glazing (ILU 36)	Shower Screens		
Compliance Certificate	Blue Mountains	-	19/01/15
- Glazing (ILU 35, 37 & 40)	Shower Screens		
Compliance Certificate	Blue Mountains	-	28/10/15
- Glazing (ILU 38 & 39)	Shower Screens		
Compliance Certificate	Blue Mountains		02/02/16
- Glazing (ILU 34, 45 & 45)	Shower Screens		
Installation Certificate	Natural Lighting	-	16/01/17
- Skylight	Products		
Installation Certificate	Elite Tile Projects	-	17/01/16
 Waterproofing works 			
Bushfire Occupation Certification	Building Code &	130164	25/01/17
Comment	Bushfire Hazard		
	Solutions Pty Limited		
Installation Certificate	Henry & Hymas	12693-S12/rk	25/01/17
- Structural			
Certificate of Compliance	Helcon Contracting	-	25/02/16
- Screw piles	Australia Pty Ltd		

2. Documentation demonstrating compliance with conditions of development consent required to be satisfied prior to OC.

No	Description	Certified by	Reference	Date
	Condition B9 – Water Management	Henry & Hymas	12693-C7/af	25/01/17
	System Certification			
	Condition B26, C17, C26, D14 & E16	Accessible Building	-	20/01/17
	 Design Statement of Compliance 	Solutions		
	Condition C12 – Survey Level Report	Land Surveys	•	20/01/17
	Condition C13 & E9 – Stage 5 Water	Henry & Hymas	12693-C7/af	20/01/17
	Management System Certification			
	Condition E1 – Landscape Warranty &	Landscape Solutions	9267	-
	Maintenance Manual Stage 5			
	Condition E2 – Fee Proposal for	John Lock &	-	15/09/14
	Additional Landscaping	Associates		
	Condition E2 – Receipt	John Lock &	•	14/10/15
		Associates		

3. Critical Stage Inspections.

Inspection	Certified by	Reference	Date
Slab Inspection Report (Units 37)	City Plan Services	142440	08/09/15
Slab Inspection Report (Units 34 & 35)	City Plan Services	142440	24/09/15
Slab Inspection Report (Unit 36)	City Plan Services	142440	06/10/15
Slab Inspection Report (Units 38 & 39)	City Plan Services	142440	26/10/15
Frame Inspection Report (Units 34 & 37)	City Plan Services	142440	05/11/15
Frame Inspection Report (Units 35)	City Plan Services	142440	20/11/15
Wet Area Inspection Report (Units 34, 35 & 37)	City Plan Services	142440	12/11/15
Frame Inspection Report (Units 36, 38 & 39)	City Plan Services	142440	17/11/15
Stormwater Inspection Report (Units 34-39)	City Plan Services	142440	22/01/16



Wet Areas Inspection Report (Units 36, 38 & 39)	City Plan Services	142440	13/01/16
Final Inspection Report	City Plan Services	142440/1	01/02/17

4. Additional Documentation.

Title	Prepared by	Reference	Date
Occupation Certificate Application	Anglican Retirement Villages	-	13/01/17
Technical Data Sheet – Silverwrap Breather Insulation	Ametalin	•	-
Technical Data Sheet – Decking	Modwood Technologies Pty Ltd	-	Aug 2013
Technical Data Sheet – Earthwool Wall & Ceiling Batts	Knauf Insulation	-	Nov 2013
Technical Data Sheet – Permastop Building Blanket	Fletcher Insulation	Rev 1	26/06/12
Contractor Licence Photograph	Ryan Grant McEwan	-	-
Slip Test Report - Pietra White Matt Tile	Safe Environments Pty Ltd	R9756	17/11/16
Slip Test Report - Pietra White Matt Tile	Safe Environments Pty Ltd	R9036b	01/09/15
Slip Test Report - Pietra White Textured Tile	Safe Environments Pty Ltd	R9036a	01/09/15



OCCUPATION CERTIFICATE APPLICATION

Made under the Environmental Planning and Assessment Act 1979 Sections 109C(1)(c) & 109H

TYPE OF APPLICATION Tick Appropriate Boxes:	Interim Certificate Final Certificate	
IDENTIFICATION OF BUILDING	Address 6-14 M	aipherson Sheet
		<i>l</i>
	DP No 116 1389	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	Suburb or town Warrith	100d Post Code 2102
DESCRIPTION OF DEVELOPMENT Detailed Description:		, 36, 37, 38+39
	+ associated d	tweways, paths
	and Camobic	aping.
Building Code of Australia Classification	Existing /a	Proposed
RELEVANT CONSENTS Development Consent: Construction Certificate / Complying Development Certificate:	/ / /	/3 Date 5.10.2616 Date 16.10.2616
APPLICANT* Name of person having benefit of the development consent:	Name lan Vallentint	Anglican Retisement Company Villages
	ABN Number <u>3992</u> 2	284 8563
	Address P.o. Box	: 284
	Suburb or town Castle	Hill Post Code 1765
*Applications for occupation certificates must be delivered by hand, by post or transmitted electronically to the principal	Phone B/H 02 942/ 53	23 Fax No
office of the certifying authority. Applications MAY NOT be sent by fax.	Mobile 0419 162 520	Email lan. Valltuhnt@acv.org
 As the applicant, I/we hereby; Submit this Occupation Certificate Applicating determination by the Principal Certifying Aux Certify that the works have been completed. Attach a Fire Safety Certificate, where releved Schedule. 	thority. I in accordance with the relevant	t Development Consent.
Signature of applicant:	Sign	Date13th January 2017
	Sign	Date



Schedule 1 - Attachments relating to the proposed development.

Schedule 1 must be completed and accompanied in the formation required to be submitted with the application for an Occupation Certificate. A detailed list is also required to be attached detailing all the documentation submitted with this application.

1.	Applicants must provide the documents confirm that documents relating to the box(s).				
	Development consent OR Complying Development Certificate (Previously lodged)		Individual fire safety certificates (as applicable)	Each BASIX certificate for development.	or the
V	Construction certificate	П	Compliance certificates (as applicable)		
	- unimposer constraints				- 6.
2.	Does the development involve an alter solution under the Building Code of Au ("BCA") in respect of a fire safety requirement?		If YES, provide either or both of the fo private accredited certifier holding Cate		Ľ∕INo eer" (a
	requiement.		 (a) A compliance certificate (as referentifies that building work relating of a compliance certificate or reported. (the first certificate or report) is alternative solution. (b) A written report that includes a standard and is consistent with the succompleted and is consistent with the succompleted. 	to an alternative solution that was int under clause or 144A(a) EP&A has been completed and compli- atement that the building work re abject of the first certificate or repo	the subject Regulation es with that lating to the
			Note: The above requirement only applies to	o building work in respect of:	
			(a) a class 9a building that is proposed to h (b) any building (other than a class 9a build (i) a fire compartment with a total flo	ding) that is proposed to have: por area of more than 2000m² or	е
			(ii) a total floor area of more than 60 that involves an alternative solution und EP1.4, EP2.1, EP2.2, DP4 and DP5 in	der the BCA in respect of the requirem	ents set out in
3.	Does the application relate to a resider	ntial	□Yes		N o
	flat development for which the develop application was required under Clause 50(1A) of the EP&A Regulation to be accompanied by a design verification for qualified designer?	ment	If YES, provide a statement from residential flat development achieves shown in the plans and specification issued, having regard to the design Environmental Planning Policy No. Development (SEPP No. 65)	the design quality of the deve s on which the construction ce quality principles set out in Par	ies that the elopment as rtificate was t 2 of <u>State</u>
			 principles set out in SEPP No. 65 to leading reduce consumption of mains-su 	ng, the statement need not verify the the extent to which they aim to pplied potable water, or gases, in the use of the building or in lated, or	design quality
4.	Documentation demonstrating complia	nce	✓Yes		□No
	with the conditions of development cor required to be satisfied prior to issuing Occupation Certificate.		If Yes - provide documentation		
5.	OVERALL FIRE SAFETY CERTIFICA	TE	Yes		□No
			If Yes - provide documentation		
6.	NSW FIRE & RESCUE SIGNOFF		□Yes		M IO
	(as per Clause 152 of EP&A Regulation	ns)	If Yes - provide documentation		
7	SYDNEY WATER SECTION 73		₩Yes		□No
	COMPLIANCE CERTIFICATE	IF Yes - provide documentation			
		Note: The Section 73 Certificate must be s	submitted to the Principal Certifying A	uthority before	
			occupation of the development / release of t	the plan of subdivision	

INSTALLATION / COMPLETION CERTIFICATION				
PROJECT	ARV Warriewood – Stage 5 - IOC2 - ILU 34 to 39			
ADDRESS	6-14 Macpherson Street Warriewood NSW 2102			

Pursuant to the provisions of Clause 1.2.2 of the Building Code of Australia, I (details below):

Name:	Jason Calear
Company:	cosolutions Pty Ltd 12 mulgray ave Baulkham Hills 2153
Company Address:	12 mulgray ave Baulkham Hills 2153
Phone:	0417 224 122
Fax:	
Email:	jason@casolutions.com.au
Qualifications & Experience:	jason@casolutions.com.au Licensed Plumber for 20t years

Hereby certify that the following aspect:

HYDRAULIC WORK (Class 1a)

Have been selected and installed in accordance with (complete as relevant):-

(a)	The drawings submitted included in Schedule A			
(b)	The relevant version of the BCA:	2014		
(c)	The relevant clauses of the Building Code of Australia (BCA) as follows:	BCA 2014 Part 3.9.1		
(d)	The relevant Australian Standards as follows (including number, part and year):	AS/NZS 3500.3-2003 Amdt 1, 2& 3 Section 5 of AS/NZS 3500.5-2012		
(e)	The relevant BASIX/ABSA Certificate	The BASIX Certificate Number 499606M_03		
(f)	The requirements of the relevant development consent, including any modified (s96) consent	Development Application Number: NO267/13 Modifications up to: S96 No: N0267/13/S96/3		
(g)	Is consistent with the approved design for this component	The installation complies with the BCA 2014, NCC Volume 3 and the requirements of the BASIX Certificate Number 499606M_03, have been wholly and completely complied with. All requirements and installations are completed.		
(h)	Further Comment, or other practices or standards relied upon for this certification:			
(i)	Exclusions:	¥es / No		
	, , , /	If Yes		

Signature: Date 10/1/2017

ANNEXURE 1 - BASIX INSTALLATION DETAILS - BASIX Certificate Number 499606M 03

Dwellings

Water:

The relevant contractor or subcontractors have planted indigenous and/or low water use species of vegetation throughout the area of land specified for the dwelling in the "Indigenous species" BASIX Certificate, as private landscaping for that dwelling.

All fixtures or appliances have been installed in dwellings, as specified within the BASIX Certificate. i.e. (to all dwellings):

- 3 star shower heads
- 4 star toilet flushing systems
- 4 star kitchen and bathroom taps
- ♦ For ILU 37 and 38, rain water tank of minimum 1000 L size, collecting run off from at least 50 sqm of roof area and has landscape connection.
- For ILU 34, 35, 36, and 39, rain water tank of minimum 1000 L size, collecting run off from at least 50 sqm of roof area, has landscape connection and toilet connection.

The relevant contractor or subcontractors have installed, for each dwelling, each alternative water supply system, with the specified size, listed for that dwelling in the BASIX Certificate. Each system has been configured to collect run-off from the areas specified (excluding any area which supplies any other alternative water supply system), and to divert overflow as specified. Each system has been connected as specified.

Energy:

The relevant contractor or subcontractors have installed each hot water system specified for the dwelling in the BASIX Certificate, so that the dwelling's hot water is supplied by that system (gas instantaneous 5 star)

The relevant contractor or subcontractors have installed, in each bathroom, kitchen and laundry of the dwelling, the ventilation system specified for that room in the BASIX Certificate. Each such ventilation system has operation controls and manual switch on/off as specified for it in the BASIX Certificate.

The relevant contractor or subcontractors have installed the cooling and heating system/s specified for the dwelling under the "Living areas" and "Bedroom areas" headings of the "Cooling" and "Heating" columns in the BASIX Certificate, in living/bedroom areas of the dwelling. If no cooling or heating system is specified in the BASIX Certificate for "Living areas" or "Bedroom areas", then no systems have been installed in any such areas. If the term "zoned" is specified beside an air conditioning system, then the system has provided for day/night zoning between living areas and bedrooms.

Where required by the BASIX Certificate, the relevant contractor or subcontractors have ensured that the "primary type of artificial lighting" for each such room in the dwelling is fluorescent lighting or light emitting diode (LED) lighting. If the term "dedicated" is specified for a particular room or area, then the light fittings in that room or area are only capable of being used for fluorescent lighting or light emitting diode (LED) lighting.

This commitment applies to each room or area of the dwelling which is referred to in a heading to the "Natural lighting" column of the table below (but only to the extent specified for that room or area). The relevant contractor or subcontractors have ensured that each such room or area is fitted with a window and/or skylight.

The relevant contractor or subcontractors have installed in each dwelling:

(aa) the kitchen cook top and oven specified for that dwelling in the "Appliances & other efficiency measures" column of the BASIX Certificate;

/

Page 2 of 3

(bb) each appliance for which a rating is specified for that dwelling in the "Appliances & other efficiency measures" column of the table, and ensure that the appliance has that minimum rating; and

(cc) any clothes drying line specified for the dwelling in the "Appliances & other efficiency measures" column of the BASIX Certificate.

Thermal Comfort:

The relevant contractor or subcontractors have constructed the development in accordance with all thermal performance specifications set out in the BASIX Certificate.

General

Buildings have been constructed, installed and implemented all requirements of the BASIX Certificate Number 499606M_03. The Development is considered to comply with the intention of the BASIX Certificate Number 499606M_03.

Date /0/1/2017

Signature: ...

Page 3 of 3

INSTALLATION / COMPLETION CERTIFICATION				
PROJECT	ARV Warriewood – Stage 5 - IOC2 - ILU 34 to 39			
ADDRESS	6-14 Macpherson Street Warriewood NSW 2102			

Pursuant to the provisions of Clause 1.2.2 of the Building Code of Australia, I (details below):

Name:	1) 15 court Cootton Truco 21 (
Company:	
Company Address:	21 ONTARIO AV. ST. CLAIR
Phone:	0415926933
Fax:	
Email:	DISCOUNTCLOTHESLINES & SWIFTBSL. O
Qualifications & Experience:	30483. AV.

Hereby certify that the following aspect:

CLOTHSLINE (Class 1a)

Have been selected and installed in accordance with (complete as relevant):-

(a)	The drawings submitted included in Schedule A		
(b)	The relevant version of the BCA:	N/A	
(c)	The relevant clauses of the Building Code of Australia (BCA) as follows:	N/A	
(d)	The relevant Australian Standards as follows (including number, part and year):	N/A	
(e)	The relevant BASIX/ABSA Certificate	The BASIX Certificate Number 499606M_03	
(f)	The requirements of the relevant development consent, including any modified (s96) consent	Development Application Number: NO267/13 Modifications up to: S96 No: N0267/13/S96/3	
(g)	Is consistent with the approved design for this component	The installation complies with the BCA 2014, NCC Volume 3 and the requirements of the BASIX Certificate Number 499606M_03, have been wholly and completely complied with. All requirements and installations are completed.	
(h)	Further Comment, or other practices or standards relied upon for this certification:		
(i)	Exclusions:	Yes / No	
		If Yes	

Signature: Date 10117

ANNEXURE 1 - BASIX INSTALLATION DETAILS - BASIX Certificate Number 499606M_03

Dwellings

Water:

The relevant contractor or subcontractors have planted indigenous and/or low water use species of vegetation throughout the area of land-specified for the dwelling in the "Indigenous species" BASIX Certificate, as private landscaping for that dwelling.

All fixtures or appliances have been installed in dwellings, as specified within the BASIX Certificate. i.e. (to all dwellings):

- 3 star shower heads
- 4 star toilet flushing systems
- 4 star kitchen and bathroom taps
- Rain water tank of minimum 1000 L size, collecting run off from at least 50 sqm of roof area and has landscape connection.

The relevant contractor or subcontractors have installed, for each dwelling, each alternative water supply system, with the specified size, listed for that dwelling in the BASIX Certificate. Each system has been configured to collect run off from the areas specified (excluding any area which supplies any other alternative water supply system), and to divert overflow as specified. Each system has been connected as specified.

Energy:

The relevant contractor or subcontractors have installed each hot water system specified for the dwelling in the BASIX Certificate, so that the dwelling's hot water is supplied by that system (gas instantaneous 5 star)

The relevant contractor or subcontractors have installed, in each bathroom, kitchen and laundry of the dwelling, the ventilation system specified for that room in the BASIX Certificate. Each such ventilation system has operation controls and manual switch on/off as specified for it in the BASIX Certificate.

The relevant contractor or subcontractors have installed the cooling and heating system/s specified for the dwelling under the "Living areas" and "Bedroom areas" headings of the "Cooling" and "Heating" columns in the BASIX Certificate, in living/bedroom areas of the dwelling. If no cooling or heating system is specified in the BASIX Certificate for "Living areas" or "Bedroom areas", then no systems have been installed in any such areas. If the term "zoned" is specified beside an air conditioning system, then the system has provided for day/night zoning between living areas and bedrooms.

Where required by the BASIX Certificate, the relevant contractor or subcontractors have ensured that the "primary type of artificial lighting" for each such room in the dwelling is fluorescent lighting or light emitting diode (LED) lighting. If the term "dedicated" is specified for a particular room or area, then the light fittings in that room or area are only capable of being used for fluorescent lighting or light emitting diode (LED) lighting.

This commitment applies to each room or area of the dwelling which is referred to in a heading to the "Natural lighting" column of the table below (but only to the extent specified for that room or area). The relevant contractor or subcontractors have ensured that each such room or area is fitted with a window and/or skylight.

The relevant contractor or subcontractors have installed in each dwelling:

(aa) the kitchen cook top and oven specified for that dwelling in the "Appliances & other efficiency measures" column of the BASIX-Certificate;

(bb) each appliance for which a rating is specified for that dwelling in the "Appliances & other efficiency measures" column of the table, and ensure that the appliance has that minimum rating; and

(cc) any clothes drying line specified for the dwelling in the "Appliances & other efficiency measures" column of the BASIX Certificate.

Thermal Comfort:

The relevant contractor or subcontractors have constructed the development in accordance with all thermal performance specifications set out in the BASIX Certificate.

General

Buildings have been constructed, installed and implemented all requirements of the BASIX Certificate Number 499606M_03. The Development is considered to comply with the intention of the BASIX Certificate Number 499606M_03.

Signature:

Date 10)117

STATEMENT OF COMPLIANCE			
PROJECT	ARV Warriewood – Stage 5 – IOC2 – ILU 34 to 39		
ADDRESS	6-14 Macpherson Street Warriewood NSW 2102		

Pursuant to the provisions of Clause 1.2.2 of the Building Code of Australia, I (details below):

Name:	Roi Raymond Ciftci	
Company:	PBS Building (NSW) Pty Ltd	
Company Address:	Unit 18, 11-21 Underwood Rd, Homebush NSW 2140	
Phone:	0407 333 511	
Fax:	Nil	
Email:	Roi.ciftci@pbsbuilding.com.au	
Qualifications & Experience: University of Western Sydney — Bachelor of Construction Menour 2 Class 2 — License No. #235290C		

Hereby certify that the following aspect:

BASIX COMMITMENTS & THERMAL COMFORT

Have been selected and installed in accordance with (complete as relevant):-

(a)	The drawings submitted included in Schedule A		
(b)	The relevant version of the BCA:	2014	
(c)	The relevant clauses of the Building Code of Australia (BCA) as follows:		
(d)	The relevant Australian Standards as follows (including number, part and year):		
(e)	The relevant BASIX/ABSA Certificate	The BASIX Certificate Number 499606M_03	
(f)	The requirements of the relevant development consent, including any modified (s96) consent	Development Application Number: N0267/13 Modifications up to: S96 No: N0267/13/S96/3	
(g)	Is consistent with the approved design for this component		
(h)	Further Comment, or other practices or standards relied upon for this certification:		
(i)	Exclusions:	Yes / No	
	·	If Yes	

Signature: Date 12 (0) 17	Signature:	44	enhanne.	Date12.	0/17
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ANNEXURE 1 - BASIX INSTALLATION DETAILS - BASIX Certificate Number 499606M_03

Dwellings

Water:

The relevant contractor or subcontractors have planted indigenous and/or low water use species of vegetation throughout the area of land specified for the dwelling in the "Indigenous species" BASIX Certificate, as private landscaping for that dwelling.

All fixtures or appliances have been installed in dwellings, as specified within the BASIX Certificate. i.e. (to all dwellings):

- 3 star shower heads
- · 4 star toilet flushing systems
- 4 star kitchen and bathroom taps
- Rain water tank of minimum 1000 L size, collecting run off from at least 50 sqm of roof area and has landscape connection.

The relevant contractor or subcontractors have installed, for each dwelling, each alternative water supply system, with the specified size, listed for that dwelling in the BASIX Certificate. Each system has been configured to collect run-off from the areas specified (excluding any area which supplies any other alternative water supply system), and to divert overflow as specified. Each system has been connected as specified.

Energy:

The relevant contractor or subcontractors have installed each hot water system specified for the dwelling in the BASIX Certificate, so that the dwelling's hot water is supplied by that system (gas instantaneous 5 star)

The relevant contractor or subcontractors have installed, in each bathroom, kitchen and laundry of the dwelling, the ventilation system specified for that room in the BASIX Certificate. Each such ventilation system has operation controls and manual switch on/off as specified for it in the BASIX Certificate.

The relevant contractor or subcontractors have installed the cooling and heating system/s specified for the dwelling under the "Living areas" and "Bedroom areas" headings of the "Cooling" and "Heating" columns in the BASIX Certificate, in living/bedroom areas of the dwelling. If no cooling or heating system is specified in the BASIX Certificate for "Living areas" or "Bedroom areas", then no systems have been installed in any such areas. If the term "zoned" is specified beside an air conditioning system, then the system has provided for day/night zoning between living areas and bedrooms.

Where required by the BASIX Certificate, the relevant contractor or subcontractors have ensured that the "primary type of artificial lighting" for each such room in the dwelling is fluorescent lighting or light emitting diode (LED) lighting. If the term "dedicated" is specified for a particular room or area, then the light fittings in that room or area are only capable of being used for fluorescent lighting or light emitting diode (LED) lighting.

This commitment applies to each room or area of the dwelling which is referred to in a heading to the "Natural lighting" column of the table below (but only to the extent specified for that room or area). The relevant contractor or subcontractors have ensured that each such room or area is fitted with a window and/or skylight.

The relevant contractor or subcontractors have installed in each dwelling:

- (aa) the kitchen cook-top and oven specified for that dwelling in the "Appliances & other efficiency measures" column of the BASIX Certificate;
- (bb) each appliance for which a rating is specified for that dwelling in the "Appliances & other efficiency measures" column of the table, and ensure that the appliance has that minimum rating; and

(cc) any clothes drying line specified for the dwelling in the "Appliances & other efficiency measures" column of the BASIX Certificate.

Thermal Comfort:

The relevant contractor or subcontractors have constructed the development in accordance with all thermal performance specifications set out in the BASIX Certificate.

General

Buildings have been constructed, installed and implemented all requirements of the BASIX Certificate Number 499606M_03. The Development is considered to comply with the intention of the BASIX Certificate Number 499606M_03.

Signature:

Date 12/01/17

INSTALLATION / COMPLETION CERTIFICATION		
PROJECT ARV Warriewood – Stage 5 – IOC2 – ILU 34 to 39		
ADDRESS 6-14 Macpherson Street Warriewood NSW 2102		

Pursuant to the provisions of Clause 1.2.2 of the Building Code of Australia, I (details below):

Name:	TUMAY BEHA	
Company: TGB ELECTRICAL PTY LTD		
Company Address: UNIT 19, 2 BARRY RD CHIPPING NORTON NSW		
Phone: 02 9723 0950		
Fax: 02 9724 5328		
Email: INFO@TGBELECTRICAL.COM		
Qualifications & Experience: LICENCED CONTRACTOR (ELECTRICAL – AC) – 181661C		

Hereby certify that the following aspect:

ELECTRICAL & MECHANICAL WORK (Class 1a) SMOKE ALARM (Class 1a)

Have been selected and installed in accordance with (complete as relevant):-

(a)	The drawings submitted included in Schedule A		
(b)	The relevant version of the BCA:	2014	
(c)	The relevant clauses of the Building Code of Australia (BCA) as follows:	Part 3.7.2 Part 3.8.5.2(c) Part 3.12.3.4 Spec E2.2a.	
(d)	The relevant Australian Standards as follows (including number, part and year):	AS 3786-1993 Amdt 1, 2, 3, & 4 AS 3786-1993	
(e)	The relevant BASIX/ABSA Certificate	The BASIX Certificate Number 499606M_03	
(f)	The requirements of the relevant development consent, including any modified (s96) consent	Development Application Number: NO267/13 Modifications up to: S96 No: N0267/13/S96/3	
(g)	Is consistent with the approved design for this component	The installation complies with the BCA 2014 and the requirements of the BASIX Certificate Number 499606M_03, have been wholly and completely complied with. All requirements and installations are completed.	
(h)	Further Comment, or other practices or standards relied upon for this certification:		
(i)	Exclusions:	Yes / No If Yes	



ANNEXURE 1 - BASIX INSTALLATION DETAILS - BASIX Certificate Number 499606M 03

Dwellings

Water:

The relevant contractor or subcontractors have planted indigenous and/or low water use species of vegetation throughout the area of land specified for the dwelling in the "Indigenous species" BASIX Certificate, as private landscaping for that dwelling.

All fixtures or appliances have been installed in dwellings, as specified within the BASIX Certificate. i.e. (to all dwellings):

- ♦ 3 star shower heads
- ♦ 4 star toilet flushing systems
- ♦ 4 star kitchen and bathroom taps
- ♦ Rain water tank of minimum 1000 L size, collecting run off from at least 50 sqm of roof area and has landscape connection.

The relevant contractor or subcontractors have installed, for each dwelling, each alternative water supply system, with the specified size, listed for that dwelling in the BASIX Certificate. Each system has been configured to collect run-off from the areas specified (excluding any area which supplies any other alternative water supply system), and to divert overflow as specified. Each system has been connected as specified.

Energy:

The relevant contractor or subcontractors have installed each hot water system specified for the dwelling in the BASIX Certificate, so that the dwelling's hot water is supplied by that system (gas instantaneous 5 star)

The relevant contractor or subcontractors have installed, in each bathroom, kitchen and laundry of the dwelling, the ventilation system specified for that room (individual exhaust fan) in the BASIX Certificate. Each such ventilation system has operation controls and manual switch on/off as specified for it in the BASIX Certificate. Each such ventilation system has been ducted to external façade.

The relevant contractor or subcontractors have installed the cooling and heating system/s specified for the dwelling under the "Living areas" and "Bedroom areas" headings of the "Cooling" and "Heating" columns in the BASIX Certificate, in living/bedroom areas of the dwelling. If no cooling or heating system is specified in the BASIX Certificate for "Living areas" or "Bedroom areas", then no systems have been installed in any such areas. If the term "zoned" is specified beside an air conditioning system, then the system has provided for day/night zoning between living areas and bedrooms.

Where required by the BASIX Certificate, the relevant contractor or subcontractors have ensured that the "primary type of artificial lighting" for each such room in the dwelling is fluorescent lighting or light emitting diode (LED) lighting. If the term "dedicated" is specified for a particular room or area, then the light fittings in that room or area are only capable of being used for fluorescent lighting or light emitting diode (LED) lighting.

This commitment applies to each room or area of the dwelling which is referred to in a heading to the "Natural lighting" column of the table below (but only to the extent specified for that room or area). The relevant contractor or subcontractors have ensured that each such room or area is fitted with a window and/or skylight.

The relevant contractor or subcontractors have installed in each dwelling:

(aa) the electric kitchen cook-top and electric oven, supplied by other, specified for that dwelling in the "Appliances & other efficiency measures" column of the BASIX Certificate;

(bb) each appliance for which a rating is specified for that dwelling in the "Appliances & other efficiency measures" column of the table, and ensure that the appliance has that minimum rating; and

(cc) any clothes drying line specified for the dwelling in the "Appliances & other efficiency measures" column of the BASIX Certificate.

Thermal Comfort:

The relevant contractor or subcontractors have constructed the development in accordance with all thermal performance specifications set out in the BASIX Certificate.

General

Buildings have been constructed, installed and implemented all requirements of the BASIX Certificate Number 499606M_03. The Development is considered to comply with the intention of the BASIX Certificate Number 499606M_03.

Signature:

Date:...23RD JANUARY 2017......

INSTALLATION / COMPLETION CERTIFICATION		
PROJECT ARV Warriewood - Stage 5 - IOC2 - ILU 34 to 39		
ADDRESS	6-14 Macpherson Street Warriewood NSW 2102	

Pursuant to the provisions of Clause 1.2.2 of the Building Code of Australia, I (details below):

Name:	ASTILEY ARUNDELL			
Company:	EUREKA SUSTAINABILITY GROUP			
Company Address:	12 ENTERPRISE CIRCUIT, PRESTONS MSW 2170			
Phone:	02 9607 5128			
Fax:				
Email:	ashleya_ eurelainsulation.com.au			
Qualifications & Experience:	3			

Hereby certify that the following aspect:

INSULATION WORK (Class 1a)

Have been selected and installed in accordance with (complete as relevant):-

(a)	The drawings submitted included in Schedule A		
(b)	The relevant version of the BCA:	2014	
(c)	The relevant clauses of the Building Code of Australia (BCA) as follows:	Part 3.8.6 Part 3.12.1.1	
(d)	The relevant Australian Standards as follows (including number, part and year):	AS/NZS 4859.12002 Amdt 1	
(e)	The relevant BASIX/ABSA Certificate	The BASIX Certificate Number 499606M_03	
(f)	The requirements of the relevant development consent, including any modified (s96) consent and, including the following condition numbers:	Development Application Number: NO267/13 Modifications up to: S96 No: N0267/13/S96/3	
(g)	Is consistent with the approved design for this component	Yes	
(h)	Further Comment, or other practices or standards relied upon for this certification:		
(i)	Exclusions:	Yes / No	

Signature:	Date 17.1.1.1.7.
g	



Compliance Certificate

R1.0 Insulated Flexible Duct

Air fuil flexible duct has been tested and meets all requirements of Australian Standards 4254 and Building Codes of Australia for Domestic and Commercial Air Handling Systems.

PRODUCT: RM1.0 Metalised Sleeve, Polyester Flexible Duct (3-Zero).

CONSTRUCTION: Black Inner Core with Metalised Outer surface multi-layered construction containing high level grade Flame Retardant Water based adhesive with high tensile wire helix encapsulated.

METALISED OUTER SLEEVE: Multi-layered construction (Metalised Outer Layer) containing high quality grade flame relardant adhesive.

INSULATION TYPE: Polyester Insulation Blanket to achieve thermal rating of RM1.0 (Insulation Thickness 70mm)

LENGTH: 6 Metre lengths / 3 Metre made to order.

DIAMETERS: 4", 5", 6", 8" 10", 12", 14", 16", 18", 20" INCH.

OPTIONS: Standard Plain or Acoustic.

OPERATING PRESSURE RANGE: 1000 Pa positive, 200 Pa negative

OPERATING TEMPERATURE RANGE: -10C TO +80C

TEST STANDARD	DESCRIPTION	RESULT
AS/NZS 1530.3 - 1999	Ignitability Index 0	0
AS/NZS 1530.3 - 1999	Spread of Flame Index	0
AS/NZS 1530.3 - 1999	Heat Evolved Index	0
AS/NZS 1530.3 - 1999	Smoke Developed Index	0-1
UL181	Burning	Pass
UL181	Mould Growth & Humidity	Pass
UL181	Temperature	Pass
UL181	Puncture	Pass
UL181	Static Load	Pass
UL181	Impact	Pass
UL181	Pressure	Pass
UL181	Collapse	Pass
UL181	Tension	Pass



The R rating of **RM1.0** is measured ex manufacture. Prolonged compression, Packaging or stretching of the product will be detrimental to the final R rating of any duct produced.



Compliance Certificate

3-Zero Flexible Nude Core

Airfoil 3-Zero flexible nude core has been tested and meets all requirements of Australian Standards 4254 and Building Codes of Australia Domestic and Commercial Air Handling Systems.

PRODUCT: Metalised Outer Surface/ Black inner surface Nude Flex Core (3-Zero).

CONSTRUCTION: Black Inner Core with Metalised Outer surface multi-layered construction containing high level grade Flame Retardant Water based adhesive with high tensile wire helix encapsulated.

LENGTH: 6 Metre lengths.

DIAMETERS: 4", 5", 6", 8" 10", 12", 14", 16", 18", 20" INCH.

OPTIONS: Standard Plain or Acoustic.

OPERATING PRESSURE RANGE: 1000 Pa positive, 200 Pa negative

OPERATING TEMPERATURE RANGE: -10C TO +80C



TEST STANDARD	DESCRIPTION	RESULT
AS/NZS 1530.3 - 1989	Ignitability Inde: 0	0
AS/NZS 1530.3 - 1989	Spread of Flame Index	0
AS/NZS 1530.3 - 1989	Heat Evolved Index	0
AS/NZS 1530.3 - 1989	Smoke Developed Index	3
UL181	Burning	Pass
UL181	Mould Growth & Humidity	Pass
UL181	Temperature	Pass
UL181	Puncture	Pass
UL181	Static Load	Pass
UL181	Impact	Pass
UL181	Pressure	Pass
UL181	Collapse	Pass
UL181	Tension	Pass



INSTALL	ATION / COMPLETION CERTIFICATION
PROJECT	ARV Warriewood – Stage 5
ADDRESS	6-14 Macpherson Street Warriewood NSW 2102

Pursuant to the provisions of Clause 1.2.2 of the Building Code of Australia, I (details below):

Name:	5cott Russell
Company:	5RC Contracting Pty Ltd
Company Address:	PO Box 255 Newport Beach N5W 2160
Phone:	0424 141 448
Fax:	N/A
Email:	srccontracting@live.com
Qualifications & Experience:	License # 261365C

Hereby certify that the following aspect:

GENERAL EARTHWORK (Class 1a)

Have been selected and installed in accordance with (complete as relevant):-

(a)	The drawings submitted included in Schedul	e A
(b)	The relevant version of the BCA:	2014
(c)	The relevant clauses of the Building Code of Australia (BCA) as follows:	Table 3.1.1.1
(d)	The relevant Australian Standards as follows (including number, part and year):	N/A
(e)	The relevant BASIX/ABSA Certificate	N/A
(f)	The requirements of the relevant development consent, including any modified (s96) consent and, including the following condition numbers:	Development Application Number: NO267/13 Modifications up to: S96 No: N0267/13/S96/3
(g)	Is consistent with the approved design for this component	Yes
(h)	Further Comment, or other practices or standards relied upon for this certification:	
(i)	Exclusions:	Yes / No
		If Yes

Signature:	Wy r	C	 Date	20/01/17	
oigilataio.	 ******		 		

HomeGuard Installation Certificate of Compliance

For more information call Rentokil on 1300 855 822



www.rentokilpestcontrol.com.au

Applicator			
Name of Company	Rentokil Termite Barriers	ABN: 98 000 034 597	
Installer Name: .R	Rentokil Termite Barriers	PMT Licence Number:	A
QBSA Number:	NA	(QLD requirement only)	
HomeGuard Accre	editation Number:		
Your Certificate No	umber: 2015-09-000018261SHR	Phone Number: .1300 85	55 822
Building Detai	ils		
Installation Date: .	14 September 2015		
Installation Addres	ss: 8 McPherson Street - Unit 34		
	wood		
Builder: (if applical	ble) PBS Building (NSW) Pty. Ltd.		
Full Under SI Product Details HomeGuard TMB I HomeGuard DPC I	lab Collars Perimeter S Red Installed 0 m² Home	Guard PB Red Installed Guard GT Installed	61 I/m 0 kg
HomeGuard FlexiC	Collars Installed 100mm 18 qty 50mm	0 qty 40mm	0 qty
N	Installed protection to the pipe penetrations and perimete NB:- Limitations that apply to the above installation are:	r cavity of the residential buil	lding on site.
	s not designed, or approved to be installed as a remedial treatmer Warranty Details Warranty Details explained to		Rentokil The Experts in Pest Control
The provided that	Transmity sevents explained to		- / /
Authorised Sig	ynature:	Vallano Date:	27/5/16

HomeGuard Installation Diagram



Installation Address:	8 Licia Guilding	nerson Str	eet -u	tation Number:	
O PIDES Affincter perimeter					
Orientation The Direction of North is indicated by the 4 symbol North is approximately:					

NOTE: This form must be submitted if a partial HomeGuard treatment has been applied and be clear and ledgable to be accepted by FMC

This document is to certify that the HorneGuard system was installed by a HomeGuard Accredited Installer and has been completed in accordance with the manufacturers specifications. HomeGuard complies with AS 3660.1 - 2019, the primary referenced standard of the Building Code of Australia. HomeGuard is only part of a termited management system for a new property, extension or renovation, the slab must be constructed in accordance with the standard: Residential Slabs and Footings Construction. AS 2870-1996. Any construction joint between existing slab and building works must be protected as part of the warranty.

Rentokii
The Experts in Pest Control

Authorised Signature: Dat	Authorised Signature: Date:	27/5/16
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HomeGuard Installation Certificate of Compliance



Applicator			
Name of Compa	Rentokil Termite Barriers	ABN: 98 000 034 597	
Installer Name:	Rentokil Termite Barriers	PMT Licence Number:	A
QBSA Number:	NA	(QLD requirement only)	
HomeGuard Acc	creditation Number:		
Your Certificate	Number: .2015-09-000018262SHR		55 822
Building Det	ails		
	. 14 September 2015		
	ess: 8 McPherson Street - Unit 35		
Suburb: Warri		State: NSW	
Builder: (if applie	cable) PBS Building (NSW) Pty. Ltd		
Full Under Full Under Product Deta HomeGuard TM HomeGuard DP	Slab Collars Per	HomeGuard GT Installed	61
Comments		s and perimeter cavity of the residential bui	
	is not designed, or approved to be installed as a r	emedial treatment ils explained to client	Rentokil The Experts in Pest Control
anom providou mi	Training Down		
Authorised S	ignature:	VAlaio Date	27/5/16

HomeGuard Installation Diagram



	HomeGuard Accreditation Number: 8 Licianeism Street-Unit 35 3 ulding Suburb: Lichinewsol State: My Post Code 2000
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Orientation The Direction of North is indicated by the isymbol North is approximately:	

NOTE: This form must be submitted if a partial HomeGuard treatment has been applied and be clear and ledgable to be accepted by FMC

This document is to certify that the HorneGuard system was installed by a HorneGuard Accredited Installer and has been completed in accordance with the manufacturers specifications. HorneGuard complies with AS 3660.1 - 2019, the primary referenced standard of the Building Code of Australia. HorneGuard is only part of a termite management system for a new property, extension or renovation, the slab must be constructed in accordance with the standard: Residential Slabs and Footings Construction. AS 2870-1996. Any construction joint between existing slab and building works must be protected as part of the warranty.

Rentokii
The Experts in Pest Control

Authorised Signature:	. Date:	27/5/16
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HomeGuard Installation Certificate of Compliance



Applicator			
Name of Compa	any: Rentokil Termite Barriers	ABN: 98 000 034 597	•••••
Installer Name:	Rentokil Termite Barriers	PMT Licence Number:	Α
QBSA Number:	NA	(QLD requirement only)	
HomeGuard Ac	creditation Number:		
Your Certificate	Number: 2015-09-000018263SHR		55 822
Installation Addi Suburb:Warri	ess: 8 McPherson Street - Unit 36	State: NSW	Post Code: .2102
Installation T Full Under Product Deta	ype Slab ✓ Collars ✓ Perime		
HomeGuard TM	B Red Installed 0 m²	HomeGuard PB Red Installed	60 I/m
HomeGuard DP	C Red Installed 0 I/m	HomeGuard GT Installed	0 kg
HomeGuard Fle.	xiCollars Installed 100mm 23 qty	50mm 0 qty 40mm	0 qty
Comments	Installed protection to the pipe penetrations and NB:- Limitations that apply to the above installation		ding on site.
	is not designed, or approved to be installed as a reme h Warranty Details	explained to client	Rentokil The Experts in Pest Control
Authorised S	ignature:	V.Ala. Date:	27/5/16

HomeGuard Installation Diagram



Installer Name: Rentexil	Home	Guard Accreditation N	umber:
	and a second sec		
Builder: PBS Building Installation Date: 14-9-15	Suburb: WAYYE	State	My Post Code 200
Installation Date: 14-9-15			
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NOTE: This form must be submitted if a partial HomeGuard treatment has been applied and be clear and ledgable to be accepted by FMC

This document is to certify that the HomeGuard system was installed by a HomeGuard Accredited Installer and has been completed in accordance with the manufacturers specifications. HomeGuard complies with AS 3660.1 - 2014, the primary referenced standard of the Building Code of Australia. HomeGuard is only part of a termite management system for a new property, extension or renovation, the slab must be constructed in accordance with the standard: Residential Slabs and Footings Construction. AS 2870-1996. Any construction joint between existing slab and building works must be protected as part of the warranty.

Rentokil
The Experts in Pest Control

	VALAIO		27/5/16
Authorised Signature:		Date:	

HomeGuard Installation Certificate of Compliance



Applicator			
Name of Compa	ny: Rentokil Termite Barriers	ABN: 98 000 034 597	
Installer Name:	Rentokil Termite Barriers	PMT Licence Number:	<u>A</u>
QBSA Number:	NA	(QLD requirement only)	
HomeGuard Acc	reditation Number:		
Your Certificate	Number: .2015-09-000018264SHR		5 822
Building Deta	ails		
Installation Date:	. 10 September 2015		
Installation Addre	ess: 8 McPherson Street - Unit 37		
	ewood		
Builder: (if applic	able) PBS Building (NSW) Pty. Ltd.		
Installation Ty	/pe		
Full Under 9	Slab Collars Perimete	r	
Product Detail	ils		
HomeGuard TME	B Red Installed 0 m²	HomeGuard PB Red Installed	61 I/m
HomeGuard DPC	Red Installed 0 I/m	HomeGuard GT Installed	0 kg
	<u> </u>		
HomeGuard Flex	iCollars Installed 100mm 18 qty	50mm 0 qty 40mm	0 qty
_			
Comments	Installed protection to the pipe penetrations and	perimeter cavity of the residential buil	ding on site.
	NB:-	***	
	Limitations that apply to the above installation a	ie.	
L		parameter promise and a second	
NOTE: HomeGuard®	is not designed, or approved to be installed as a remedia		Rentokil
Client provided with	n Warranty Details 🗹 Warranty Details exp		The Experts in Pest Control
Authorised Si	gnature:	Value Date:	27/5/16

HomeGuard Installation Diagram



Installer Name: Re- Installation Address: Builder: PBS Bi Installation Date:	HomeGuard Accreditation Number: Macpheson & LINH37 Iding Suburb: Warriewood State: Post Code - GHS	2102
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PCrurch		
Orientation The Direction of North is		
indicated by the f symbol North is approximately:		

NOTE: This form must be submitted if a partial HomeGuard treatment has been applied and be clear and ledgable to be accepted by FMC

This document is to certify that the HomeGuard system was instelled by a HomeGuard Accredited Installer and has been completed in accordance with the manufacturers specifications. HomeGuard complies with AS 3660.1 - 20/4, the primary referenced standard of the Building Code of Australia. HomeGuard is only part of a termite management system for a new property, extension or renovation, the slab must be constructed in accordance with the standard: Residential Slabs and Footings Construction. AS 2870-1996. Any construction joint between existing slab and building works must be protected as part of the warranty.

Rentokil
The Experts in Pest Control

Authorised Signature:	WALGO Date	27/5	/16
Authorised Signature:	Date	*	· · · ·

HomeGuard Installation Certificate of Compliance



Precision Termite Management Applicator Name of Company: Rentokil Termite Barriers ABN: 98 000 034 597 Installer Name: Rentokil Termite Barriers PMT Licence Number: NA OBSA Number: NA (QLD requirement only) HomeGuard Accreditation Number: Your Certificate Number: 2015-10-000018265SHR Phone Number: 1300 855 822 **Building Details** Installation Date: 26 October 2015 Installation Address: 8 McPherson Street - Unit 38 Suburb: Warriewood State: NSW Post Code: 2102 Builder: (if applicable) PBS Building (NSW) Pty. Ltd. **Installation Type** Collars Perimeter Full Under Slab **Product Details** HomeGuard TMB Red Installed 0 HomeGuard PB Red Installed 60 I/m m^2 0 HomeGuard DPC Red Installed 0 I/m HomeGuard GT Installed kg HomeGuard FlexiCollars Installed 100mm 18 50mm 40mm 0 qty qty Comments Installed protection to the pipe penetrations and perimeter cavity of the residential building on site. NB:-Limitations that apply to the above installation are: NOTE: HomeGuard® is not designed, or approved to be installed as a remedial treatment Warranty Details explained to client Client provided with Warranty Details

For more information call Rentokil on 1300 855 822

Authorised Signature:

www.rentokilpestcontrol.com.au

HomeGuard Installation Diagram



Installer Name: Reconstallation Address: Builder: Pass Builder: Installation Date: 26	HomeGuard Accreditation Number: By Macgoreson State: Macgoreson S
o pipes Atrimele	
Orientation The Direction of North is indicated by the symbol North is approximately:	

NOTE: This form must be submitted if a partial HomeGuard treatment has been applied and be clear and ledgable to be accepted by FMC

This document is to certify that the HomeGuard system was installed by a HomeGuard Accredited Installer and has been completed in accordance with the manufacturers specifications. HomeGuard complies with AS 3660.1 - 2014, the primary referenced standard of the Building Code of Australia. HomeGuard is only part of a termite management system for a new property, extension or renovation, the slab must be constructed in accordance with the standard: Residential Slabs and Footings Construction. AS 2870-1996. Any construction joint between existing slab and building works must be protected as part of the warranty.

Rentokil
The Experts in Pest Control

Authorised Signature:	Whow Date:	27/5/16
Authorisea Orginature		***************************************

HomeGuard Installation Certificate of Compliance



Precision Termite Management Applicator Name of Company: Rentokil Termite Barriers ABN: 98 000 034 597 Installer Name: Rentokil Termite Barriers PMT Licence Number: NA QBSA Number: NA (QLD requirement only) HomeGuard Accreditation Number: Your Certificate Number: .2015-10-000018266SHR **Building Detalls** Installation Date: 26 October 2015 Installation Address: 8 McPherson Street - Unit 39 Suburb. Warriewood State: NSW Post Code: 2102 Builder: (if applicable) PBS Building (NSW) Pty. Ltd. Installation Type Full Under Slab Collars Perimeter **Product Details** HomeGuard TMB Red Installed 0 m² HomeGuard PB Red Installed 60 1/m 0 0 1/m HomeGuard GT Installed HomeGuard DPC Red Installed kg HomeGuard FlexiCollars Installed 100mm 19 50mm 40mm 0 qty qty qty Comments Installed protection to the pipe penetrations and perimeter cavity of the residential building on site. NB:-Limitations that apply to the above installation are: NOTE: HomeGuard® is not designed, or approved to be installed as a remedial treatment Warranty Details explained to client Client provided with Warranty Details

For more information call Rentokil on 1300 855 822

Authorised Signature:

www.rentokilpestcontrol.com.au

HomeGuard Installation Diagram



Installer Name:	a Licera	erson Stri	eel Ilinia	ion Number: 139 State: M. Y. Post Code	
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NOTE: This form must be submitted if a partial HomeGuard treatment has been applied and be clear and ledgable to be accepted by FMC

This document is to certify that the HomeGuard system was installed by a HomeGuard Accredited Installer and has been completed in accordance with the manufacturers specifications. HomeGuard complies with AS 3660.1 - 2019, the primary referenced standard of the Building Code of Australia. HomeGuard is only part of a termite management system for a new property, extension or renovation, the slab must be constructed in accordance with the standard: Residential Slabs and Footings Construction. AS 2870-1996. Any construction joint between existing slab and building works must be protected as part of the warranty.

Rentokil
The Experts in Pest Control

	Marin	27/2/1
Authorised Signature:	Whaw Date:	21/3/16

INSTALLA	TION / COMPLETION CERTIFICATION
PROJECT	ARV Warriewood – Stage 5
ADDRESS	6-14 Macpherson Street Warriewood NSW 2102

Name:	Shannon Darcy
Company:	All concrete SLD Pty Ltd
Company Address:	3124 Wellington St, Riverstone 2765
Phone:	3/24 Wellington St, Riverstone 2765 9627 7851
Fax:	9627 3758
Email:	admin@allconcrete.com.au
Qualifications & Experience: Tafe - qualified concreter + licencea	

Hereby certify that the following aspect:

builder (12.2119016)

CONCRETE WORK (Class 1a)

Have been selected and installed in accordance with (complete as relevant):-

(a)	The drawings submitted included in Schedul	e A
(b)	The relevant version of the BCA:	2014
(c)	The relevant clauses of the Building Code of Australia (BCA) as follows:	N/A
(d)	The relevant Australian Standards as follows (including number, part and year):	AS 2870-2011
(e)	The relevant BASIX/ABSA Certificate	N/A
(f)	The requirements of the relevant development consent, including any modified (s96) consent and, including the following condition numbers:	Development Application Number: NO267/13 Modifications up to: S96 No: N0267/13/S96/3
(g)	Is consistent with the approved design for this component	Yes
(h)	Further Comment, or other practices or standards relied upon for this certification:	
(i)	Exclusions:	Yes / No
		If Yes

INSTALLATION / COMPLETION CERTIFICATION		
PROJECT	ARV Warriewood – Stage 5	
ADDRESS	6-14 Macpherson Street Warriewood NSW 2102	

Name: Chris Thrush	
Company:	Helcon Contracting Australia Pty Ltd
Company Address:	Unit 10 / 45-51 Huntley Street, Alexandria
Phone:	02 9516 5093
Fax:	02 9516 5193
Email:	info@helcon.com.au
Qualifications & Experience:	253147C

Hereby certify that the following aspect:

SCREW PILE WORK (Class 1a)

Have been selected and installed in accordance with (complete as relevant):-

(a)	The drawings submitted included in Schedu	le A
(b)	The relevant version of the BCA:	2014
(c)	The relevant clauses of the Building Code of Australia (BCA) as follows:	
(d)	The relevant Australian Standards as follows (including number, part and year):	AS 2159-2009 Amdt 1
(e)	The relevant BASIX/ABSA Certificate	The BASIX Certificate Number 499606M_03
(f)	The requirements of the relevant development consent, including any modified (s96) consent and, including the following condition numbers:	Development Application Number: NO267/13 Modifications up to: S96 No: N0267/13/S96/3
(g)	Is consistent with the approved design for this component	Yes
(h)	Further Comment, or other practices or standards relied upon for this certification:	
(i)	Exclusions:	Yes / No
		If Yes

oims Polynis	\sim	D-4-	24-01-16
Signature:		Date	7.1.0

INSTALLATION / COMPLETION CERTIFICATION		
PROJECT	ARV Warriewood - Stage 5 - IOC2 - ILU 34 to 39	
ADDRESS	6-14 Macpherson Street Warriewood NSW 2102	

Name:	Francesco Salvatore Difranco	
Company:	Global Bricklaying Holdings Pty Ltd	
Company Address:	7 Main Street, Lithgow, NSW, 2790	
Phone:	0425 268 064	
Fax:	N/A	
Email:	gbhcontracting@bigpond.com	
Qualifications & Experience:	e: 231903C - Builder - 15 years experience	

Hereby certify that the following aspect:

MASONRY WORK (Class 1a and 9b Buildings)

Have been selected and installed in accordance with (complete as relevant):-

(a)	The drawings submitted included in Schedul	e A
(b)	The relevant version of the BCA:	2014
(c)	The relevant clauses of the Building Code of Australia (BCA) as follows:	Part 3.12.1.1 Part 3.8.5.2
(d)	The relevant Australian Standards as follows (including number, part and year):	AS 3700-2011
(e)	The relevant BASIX/ABSA Certificate	N/A
(f)	The requirements of the relevant development consent, including any modified (s96) consent and, including the following condition numbers:	Development Application Number: NO267/13 Modifications up to: S96 No: N0267/13/S96/3
(g)	Is consistent with the approved design for this component	Yes
(h)	Further Comment, or other practices or standards relied upon for this certification:	
(i)	Exclusions:	Yes / No If Yes

Signature: Date 12 January 2017

INSTALLATION COMPLETION CERTIFICATION			
PROJECT	ARV Warriewood – Stage 5		
ADDRESS 6-14 Macpherson Street Warriewood NSW 2102			

Name:	Grant Worse
Company:	Renrow Steel
Company Address:	PO BOX 4129 HAWKER 2614
Phone:	0439 604 943
Fax:	
Email:	Grant worner
Qualifications & Experience:	Boilermaker/sitemanager 10 years t

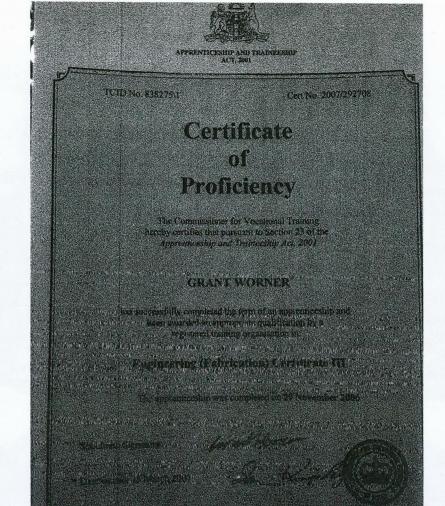
Hereby certify that the following aspect:

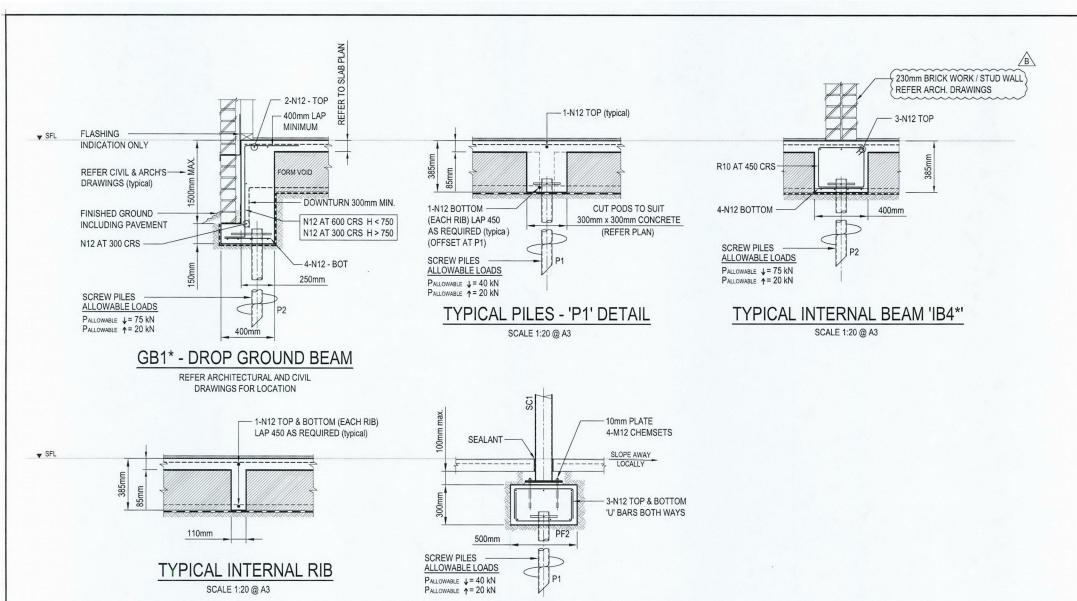
STRUCTURAL STEEL WORK (Class 1a)

Have been selected and installed in accordance with (complete as relevant):-

(a)	The drawings submitted included in Schedule A		
(b)	The relevant version of the BCA:	2014	
(c)	The relevant clauses of the Building Code of Australia (BCA) as follows:		
(d)	The relevant Australian Standards as follows (including number, part and year):	AS 4100-1998 Amdt 1 AS/NZS 4600-2005 Amdt 1 NASH Standard Part 1-2005 Amdt A, B & C	
(e)	The relevant BASIX/ABSA Certificate		
(f)	The requirements of the relevant development consent, including any modified (s96) consent and, including the following condition numbers:	Development Application Number: NO267/13 Modifications up to: S96 No: N0267/13/S96/3	
(g)	Is consistent with the approved design for this component	Yes	
(h)	Further Comment, or other practices or standards relied upon for this certification:		
(i)	Exclusions:	Yes / No If Yes	

Signature:	War-	Date 16/1/17	
Signature:		Date	





TYPICAL PAD FOOTING DETAIL - 'PF2'

[SC1 - 125 x 125 x 4.0 SHS H.D.GALV OR EQUIV. PAINT]

SCALE 1:20 @ A3

FOR CONSTRUCTION

A ISSUED FOR CONSTRUCTION 02-02- 02 ISSUED FOR TENDER 15-08-	REVISION	AMENDMENT	DATE
A ISSUED FOR CONSTRUCTION 02-02-	01	ISSUED FOR PRELIMINARY	01-08-2014
	02	ISSUED FOR TENDER	15-08-2014
B REVISED AS CLOUDED 18-02-	Α	ISSUED FOR CONSTRUCTION	02-02-2015
	В	REVISED AS CLOUDED	18-02-2015

ARV **ENVIRONA STUDIO** This drawing and design remains the property of Henry & Hymas and may not be







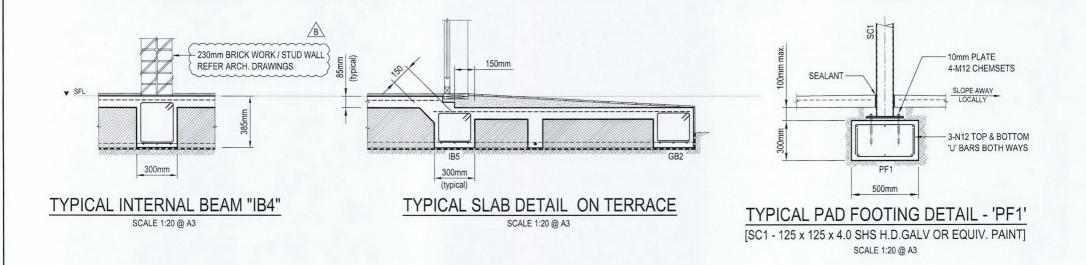
Project	
ANGLICAN RETIREMENT VILLAGES	
8 MACPHERSON ST. WARRIEWOOD, NSW	
	_

Title
SLAB ON PILE DETAILS
SHEET 2

	Drawn MAG	Designed DK	JULY 2014
SW	Checked	Approved	Scale
	DK	RK	1:20 @ A3

12693 - S7.01

B



FOR CONSTRUCTION

			Client	Γ
В	REVISED AS CLOUDED	18-02-2015	ARV	
А	ISSUED FOR CONSTRUCTION	02-02-2015	Architect	1
02	ISSUED FOR TENDER	15-08-2014	ENVIRONA STUDIO	1
01	ISSUED FOR PRELIMINARY	01-08-2014	This drawing and design remains the property of Henry & Hymas and may not be	1
REVISION	AMENDMENT	DATE	copied in whole or in part without the prior written approval of Henry & Hymas.	







Project	[
ANGLICAN RETIREMENT VILLAGES	1
8 MACPHERSON ST. WARRIEWOOD, NSW	1
Title	1

	MAG	Designed DK	JULY 2014
N	Checked	Approved	Scale
	DK	RK	1:20 @ A3

SLAB ON GROUND DETAILS
SHEET 2

12693 - S6.01

В

INSTALLATION / COMPLETION CERTIFICATION	
PROJECT ARV Warriewood – Stage 5 – IOC2- ILU 34 to 39	
ADDRESS 6-14 Macpherson Street Warriewood NSW 2102	

Name:	Kyan Mitwan.
Company:	KGM Carpenty
Company Address:	45 Mansheld wany Kellyville
Phone:	0421 57/119
Fax:	
Email:	KGM Carpenty (a) Hoterail.com.
Qualifications & Experience:	CERTIFI Caipenty 15 yrs.
Hereby certify that the following as	spect.

CARPENTRY WORK (Class 1a)

Have been selected and installed in accordance with (complete as relevant):-

(a)	The drawings submitted included in Schedule A	
(b)	The relevant version of the BCA:	2014
(c)	The relevant clauses of the Building Code of Australia (BCA) as follows:	Part 3.12.3
(d)	The relevant Australian Standards as follows (including number, part and year):	AS 1684.2-2010 Amdt 1 AS 1684.4-2010 Amdt 1 AS 1562.1-1992 Amdt 1, 2 & 3 AS 2047-1999 Amdt 1 & 2 AS 1288-2006 Amdt 1 & 2
(e)	The relevant BASIX/ABSA Certificate	
(f)	The requirements of the relevant development consent, including any modified (s96) consent and, including the following condition numbers:	Development Application Number: NO267/13 Modifications up to: S96 No: N0267/13/S96/3
(g)	Is consistent with the approved design for this component	Yes (Trueform's Frame and Truss details)
(h)	Further Comment, or other practices or standards relied upon for this certification:	Installation in accordance with the frame & truss manufacture's detail drawings as referenced in Appendix A
(i)	Exclusions:	Yes / No
		If Yes

Signature: Date Date

APPENDIX A

- 1. Trueform's Frame and Truss Detail Drawings Reference
 - Frame 9013-D34. 9013-D35, 9013-D36, 9012-C37, 9013-F38, 9013-G39
 - Truss 13D-34, 13D-35, 13D-36, 12C-37, 13F-38, 13G-39



Trueform Frames & Trusses

ABN: 32 074 794 148

99 Mulgrave Rd. Mulgrave NSW 2756 Ph: (02) 4577.2755

Fax: (02) 4587.8215

trueformframes@bigpond.com.au

MiTek Australia Ltd - MiTek20/20 v4.82 p12 (Build 2330) BCA 2014

*** CERTIFICATION FOR ROOF TRUSSES ***

Date - 11 Sep 2015

10:41:55

Client - PBS BUILDING - , ,

Job Reference - 9013

Site - SINGLE STORY ROOF - ILU 34 TYPE D R STAGE 5, NO 8 MACPHERSON ST WARRIEWOOD

GENERAL DEFAULTS

Design Wind Speed = 40.0m/s, N2 Wind Classification

Roof Material: Steel Deck (900 crs)

Ceiling Material: 13mm Plaster/direct to BC

Top Chord Restraints: 900 mm Bottom Chord Restraints: 600 mm

Truss Spacing: 600 mm

External Pressure Coefficient: -0.90 Internal Pressure Coefficient: 0.20

Timber Description: F5MIX Pitch: 18.00 degrees Overhang: 585 mm Application: Housing

Note: Design data for individual trusses may vary.

The trusses in this project have been designed using MiTek 20/20, a software suite developed by MiTek Australia Ltd. in accordance with the ABCB Protocol For Structural Software incorporating engineering procedures that comply with relevant requirements in BCA 2014 including AS/NZS 1170.0:2002, AS/NZS 1170.1:2002, AS/NZS 1170.2:2011, AS/NZS 1170.3:2003, AS 1720.1:2010 & AS 4055:2012 among its list of documents.

These trusses should be erected, fixed, and braced in accordance with Australian Standard AS4440, specifications published by MiTek Australia Ltd., and any other requirements supplied by the truss manufacturer.

Trueform Frames & Trusses

certifies that these trusses are manufactured under licence to and in accordance with specifications published by MiTek Australia Ltd.

Designed by:

Designed by:

Jason Hellyer

Trueforn Frames and Trusses

9 MULGRAVE RD IULGRAVE SW 2756

elephone: 4577.2755 ax: 4587.8215 Client: PBS BUILDING
Site: ILU 34 TYPE D R STAGE 5
: NO 8 MACPHERSON ST
: WARRIEWOOD
: NOT TREATED
Telephone:

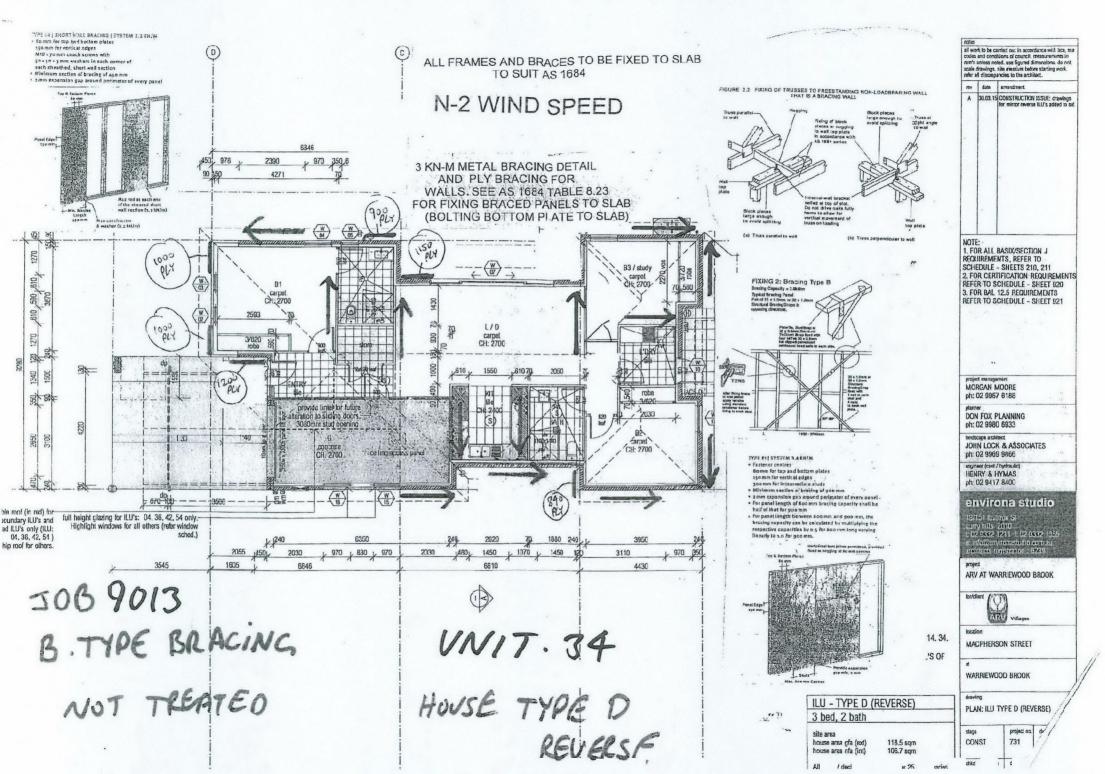
Job:

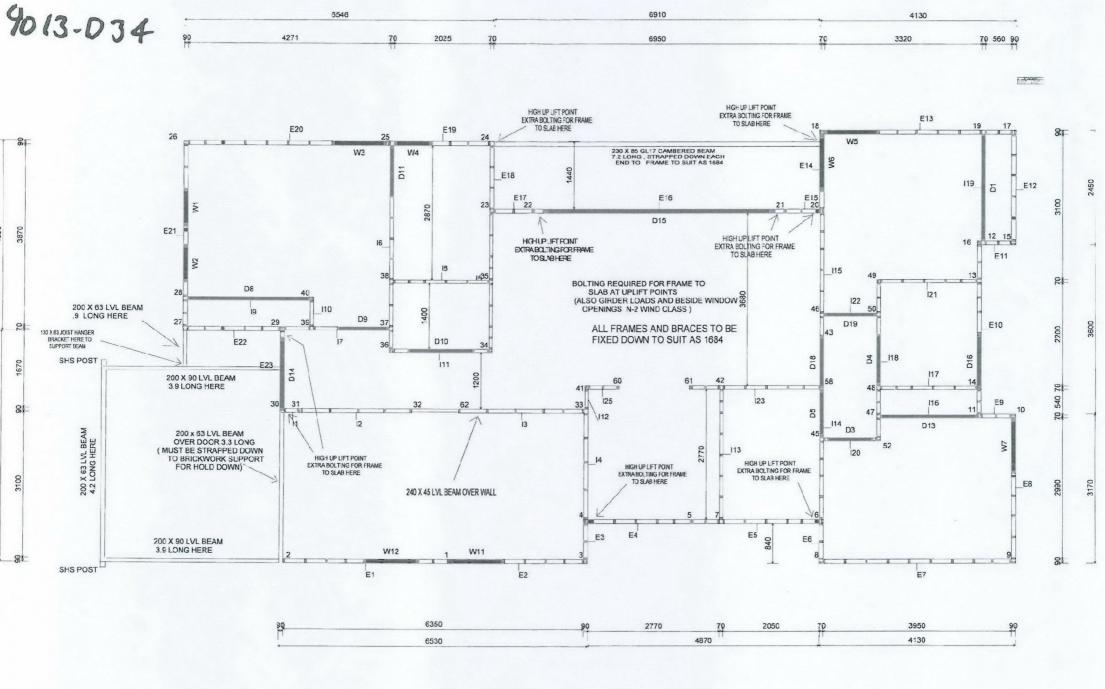
13D-34

ALL TRUSSES TO BE INSTALLED TO SUIT MITEK FIXING & BRACING GUIDELINES FOR TRUSSES.

MAKE SURE ALL BRACING IS PERMANENTLY FIXED AND ALL BOLTS AND BRACKETS ARE TIGHTENED PRIOR TO LOADING OF THE ROOF.

ENSURE ANY TRUSS SUPPORTED INTERNALLY IS POSITIONED SO WEBS LAND OVER TRUSS





UNIT 34



Trueform Frames & Trusses

ABN: 32 074 794 148

99 Mulgrave Rd. Mulgrave NSW 2756 Ph: (02) 4577.2755

Fax: (02) 4587.8215 trueformframes@bigpond.com.au

MiTek Australia Ltd - MiTek20/20 v4.82 p12 (Build 2330) BCA 2014

*** CERTIFICATION FOR ROOF TRUSSES ***

Date - 11 Sep 2015

12:18:33

Client - PBS BUILDING - ...

Job Reference - 9013

Site - SINGLE STORY ROOF - ILU 35 TYPE D R STAGE 5, NO 8 MACPHERSON ST WARRIEWOOD

GENERAL DEFAULTS

Design Wind Speed = 40.0m/s, N2 Wind Classification

Roof Material: Steel Deck (900 crs)

Ceiling Material: 13mm Plaster/direct to BC

Top Chord Restraints: 900 mm Bottom Chord Restraints: 600 mm

Truss Spacing: 600 mm

External Pressure Coefficient: -0.90
Internal Pressure Coefficient: 0.20

Timber Description : F5MIX Pitch: 18.00 degrees

Overhang: 585 mm Application: Housing (UNIT.35)

Note: Design data for individual trusses may vary.

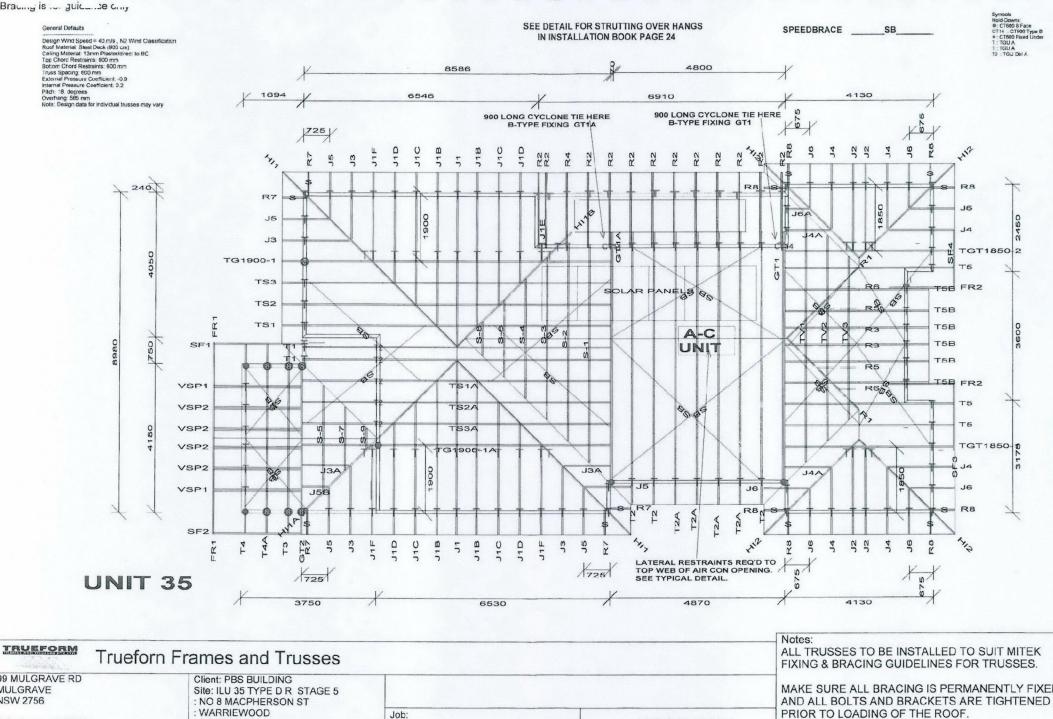
The trusses in this project have been designed using MiTek 20/20, a software suite developed by MiTek Australia Ltd. in accordance with the ABCB Protocol For Structural Software incorporating engineering procedures that comply with relevant requirements in BCA 2014 including AS/NZS 1170.0:2002, AS/NZS 1170.1:2002, AS/NZS 1170.2:2011, AS/NZS 1170.3:2003, AS 1720.1:2010 & AS 4055:2012 among its list of documents.

These trusses should be erected, fixed, and braced in accordance with Australian Standard AS4440, specifications published by MiTek Australia Ltd., and any other requirements supplied by the truss manufacturer.

Trueform Frames & Trusses

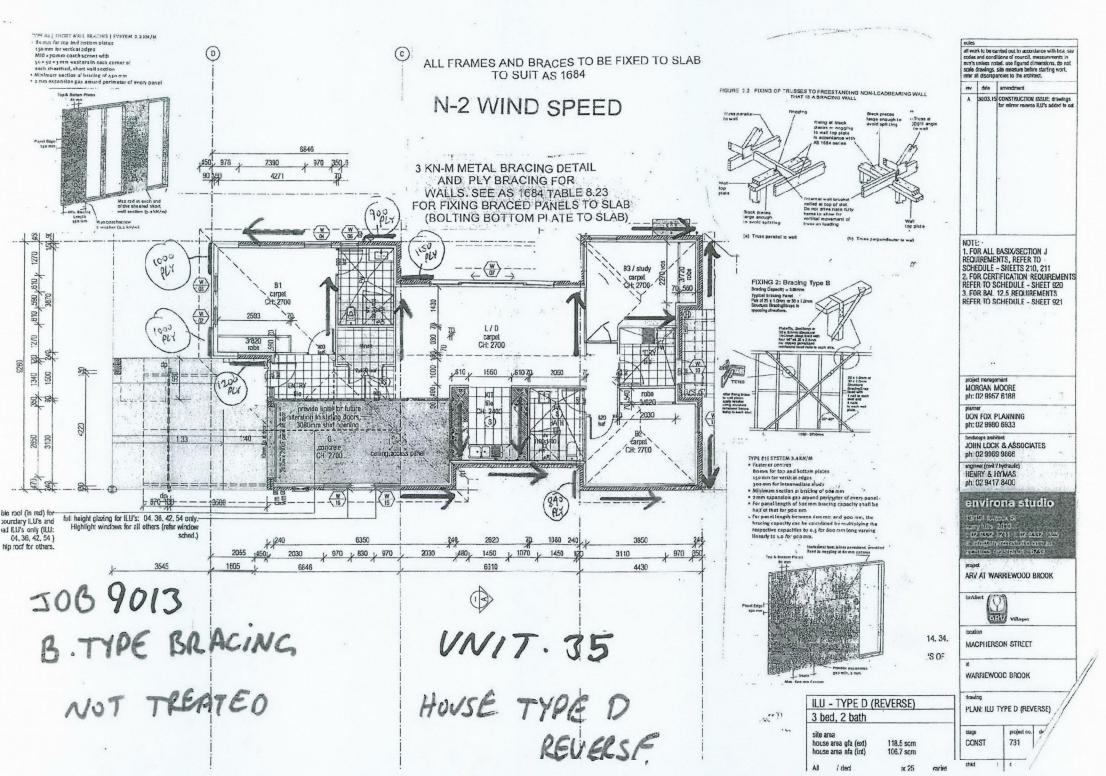
certifies that these trusses are manufactured under licence to and in accordance with specifications published by MiTek Australia Ltd.

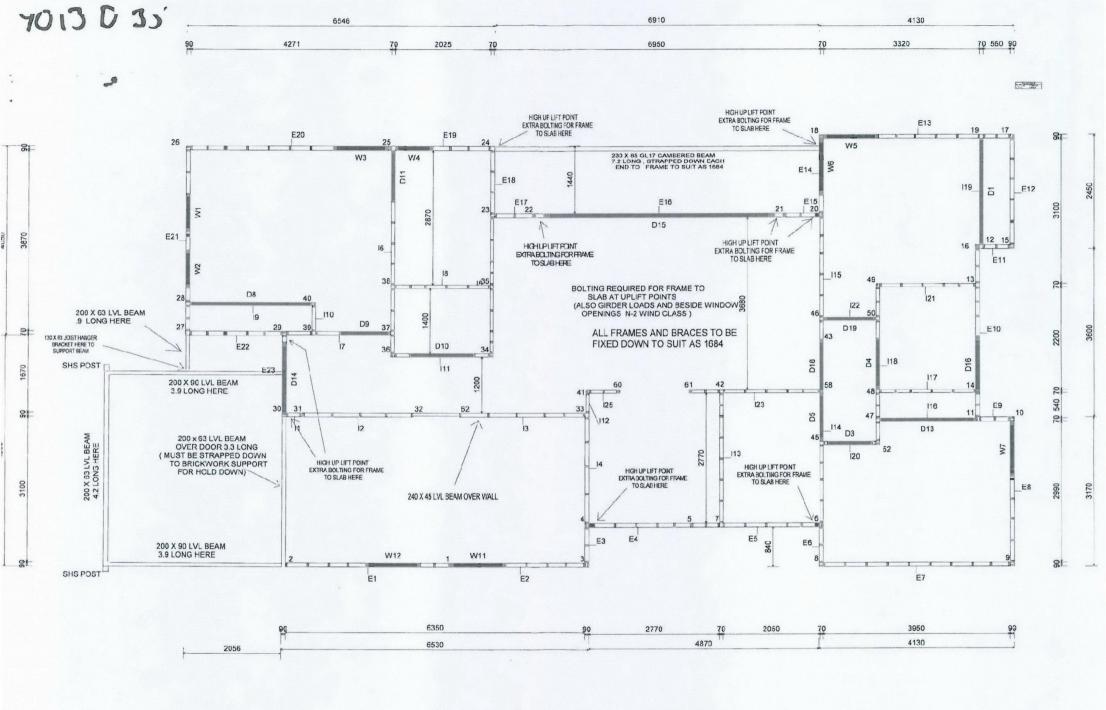
Designed by:



Designed by: elephone: 4577.2755 NOT TREATED 13D-35 ax: 4587.8215 Telephone: Jason Hellyer MAKE SURE ALL BRACING IS PERMANENTLY FIXED

ENSURE ANY TRUSS SUPPORTED INTERNALLY IS POSITIONED SO WEBS LAND OVER TRUSS





UNIT 35

TRUEFORM

Trueform Frames & Trusses

ABN: 32 074 794 148

MiTek Australia Ltd - MiTek20/20 v4.82 p12 (Build 2330) BCA 2014

99 Mulgrave Rd. Mulgrave NSW 2756 Ph: (02) 4577.2755

Fax: (02) 4587.8215 trueformframes@bigpond.com.au

*** CERTIFICATION FOR ROOF TRUSSES ***

Date - 14 Sep 2015

07:26:29

Client - PBS BUILDING - , ,

Job Reference - 9013

UNIT.36

Site - SINGLE STORY ROOF - ILU 36 TYPE D R STAGE 5, NO 8 MACPHERSON ST WARRIEWOOD

GENERAL DEFAULTS

Design Wind Speed = 40.0m/s , N2 Wind Classification

Roof Material: Steel Deck (900 crs)

Ceiling Material: 13mm Plaster/direct to BC

Top Chord Restraints: 900 mm Bottom Chord Restraints: 600 mm

Truss Spacing: 600 mm

External Pressure Coefficient: -0.90
Internal Pressure Coefficient: 0.20

Timber Description : F5MIX Pitch: 18.00 degrees Overhang: 585 mm

Overhang: 585 mm Application: Housing

Note: Design data for individual trusses may vary.

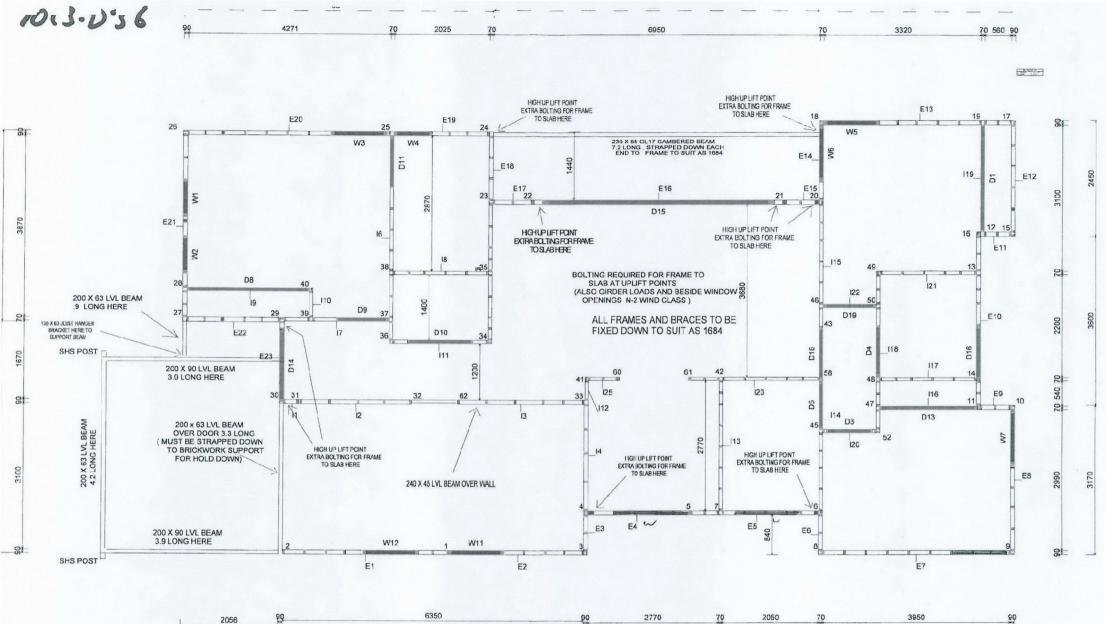
The trusses in this project have been designed using MiTek 20/20, a software suite developed by MiTek Australia Ltd. in accordance with the ABCB Protocol For Structural Software incorporating engineering procedures that comply with relevant requirements in BCA 2014 including AS/NZS 1170.0:2002, AS/NZS 1170.1:2002, AS/NZS 1170.2:2011, AS/NZS 1170.3:2003, AS 1720.1:2010 & AS 4055:2012 among its list of documents.

These trusses should be erected, fixed, and braced in accordance with Australian Standard AS4440, specifications published by MiTek Australia Ltd., and any other requirements supplied by the truss manufacturer.

Trueform Frames & Trusses

certifies that these trusses are manufactured under licence to and in accordance with specifications published by MiTek Australia Ltd.

Designed by:



UNIT 36

Trueforn Frames and Trusses

19 MULGRAVE RD MULGRAVE ISW 2756

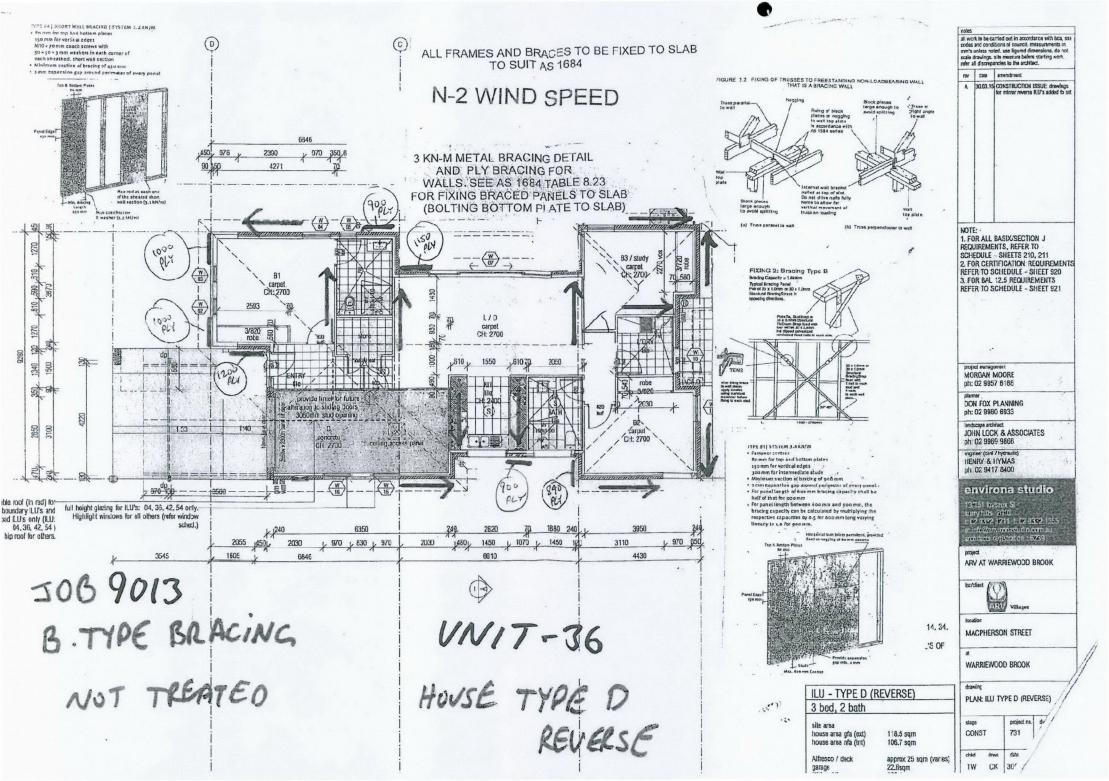
elephone: 4577.2755 ax: 4587.8215 Client: PBS BUILDING
Site: ILU 36 TYPE D R STAGE 5
: NO 8 MACPHERSON ST
: WARRIEWOOD
: NOT TREATED
Telephone:

Job: 13D-36 Designed by: Jason Hellyer Sc. 1:7 D: 14/0 15 D IBV SOI :LLY

ALL TRUSSES TO BE INSTALLED TO SUIT MITEK FIXING & BRACING GUIDELINES FOR TRUSSES.

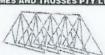
MAKE SURE ALL BRACING IS PERMANENTLY FIXED AND ALL BOLTS AND BRACKETS ARE TIGHTENED PRIOR TO LOADING OF THE ROOF.

ENSURE ANY TRUSS SUPPORTED INTERNALLY IS POSITIONED SO WEBS LAND OVER TRUSS





Trueform Frames & Trusses



ABN: 32 074 794 148

MiTek Australia Ltd - MiTek20/20 v4.82 p12 (Build 2330) BCA 2014

99 Mulgrave Rd. Mulgrave NSW 2756 Ph: (02) 4577.2755 Fax: (02) 4587.8215 trueformframes@bigpond.com.au

*** CERTIFICATION FOR ROOF TRUSSES ***

Date - 20 Aug 2015

09:19:33

Client - PBS BUILDING - ...

Job Reference - 9012

Site - SINGLE STORY ROOF - ILU 37 TYPE C STAGE 5, NO 8 MACPHERSON ST WARRIEWOOD

GENERAL DEFAULTS

Design Wind Speed = 40.0m/s , N2 Wind Classification

Roof Material: Steel Deck (900 crs)

Ceiling Material: 13mm Plaster/direct to BC

Top Chord Restraints: 900 mm Bottom Chord Restraints: 600 mm

Truss Spacing: 600 mm

External Pressure Coefficient: -0.90 Internal Pressure Coefficient: 0.20

Timber Description : F5MIX
Pitch: 18.00 degrees
Overhang: 585 mm
Application: Housing

(UNIT.37)

Note: Design data for individual trusses may vary.

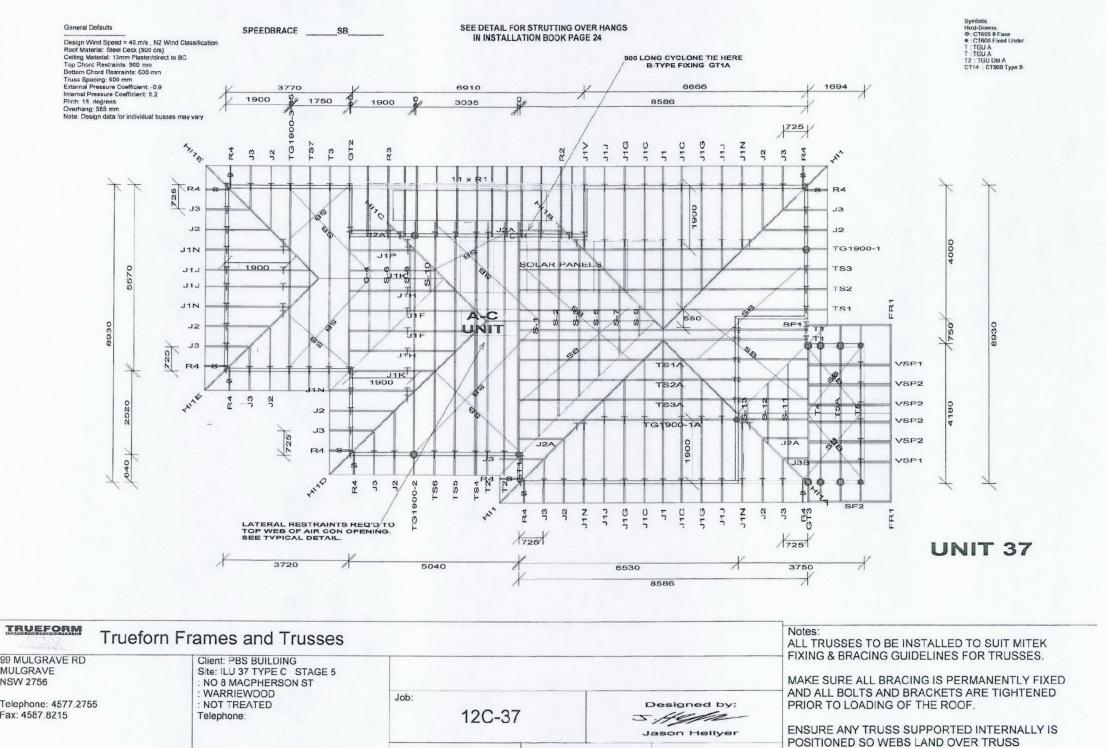
The trusses in this project have been designed using MiTek 20/20, a software suite developed by MiTek Australia Ltd. in accordance with the ABCB Protocol For Structural Software incorporating engineering procedures that comply with relevant requirements in BCA 2014 including AS/NZS 1170.0:2002, AS/NZS 1170.1:2002, AS/NZS 1170.2:2011, AS/NZS 1170.3:2003, AS 1720.1:2010 & AS 4055:2012 among its list of documents.

These trusses should be erected, fixed, and braced in accordance with Australian Standard AS4440, specifications published by MiTek Australia Ltd., and any other requirements supplied by the truss manufacturer.

Trueform Frames & Trusses

certifies that these trusses are manufactured under licence to and in accordance with specifications published by MiTek Australia Ltd.

Designed by:



Date: 20/08/2015

Scale: 1:80

SUPPORT WALL

Drawn By: Jason Hellyer

3 KN-M METAL BRACING DETAIL AND 3.4 KN-M PLY BRACING FOR WALLS SEE AS 1684 TABLE 8,23 FOR FIXING BRACED PANELS TO SLAB (BOLTING BOTTOM PLATE TO SLAB)

carpet

CH: 2700

TYPE 64 SKORT WALLERACING SYSTEM 1.2 KM/MS & Somm for top and action plate; wo mm for vertical address

N-2 WIND SPEED

carpet

CH: 2700

-provide lintel for future

G

concrete

CH 2700

alteration to stiding doors." 3080mm stud opening.

1:40 8

105

11:33

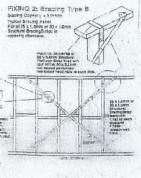
1:40

ALL FRAMES AND BRACES TO BE FIXED TO SLAB

TO SUIT AS 1684

DECK AREA REFER SITE PLAN

darnai



Commission and commission of the last of t

B. TYPE BRACING

MOTES

garage GFA + Alf

 TYPE C ILU #: 37, 38, 44, 50, 56, 58
 REFER MASTERPLAN FOR FFL RL'S OF ILU'S

ILU - TYPE C
2 bed, 2 bath

site area house area gfa (ext) house area nfa (int) 93.0 scm

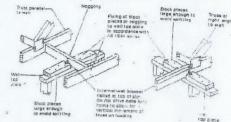
Alfresco / deck approx 25 scm (varies) garage 226 scm

151.5 scm

FIGURE 2.2 FIXING OF TRUSSES TO FREESTANDING NON-LUADBEARING WALL

THAT IS A BRACING WALL

NOCOIDS



(a) Truss parallel to wall

協總

NOTE:
1. FOR ALL PASIX/SECTION J
REQUIREMENTS, REFER TO
SCHEDULE - SHEETS 210, 2:1
2. FOR CERTIFICATION REQUIREMENTS
REFER TO SCHEDULE - SHEET 920
3. FOR BA. 12.5 REQUIREMENTS
REFER TO SCHEDULE - SHEET 921

project management MORGAN MOORE ph: 02 9957 6188

(1) Trigs propandicular to well

DON FOX PLANNING ph: 02 9980 6933

JOHN LOCK & ASSOCIATES ph: 02 9969 9866

HENRY & HYMAS ph: 02 9417 8400

anvirona studio

er of evaluation of the control of t

project

ARV AT WARRIEWOOD BROOK



ion

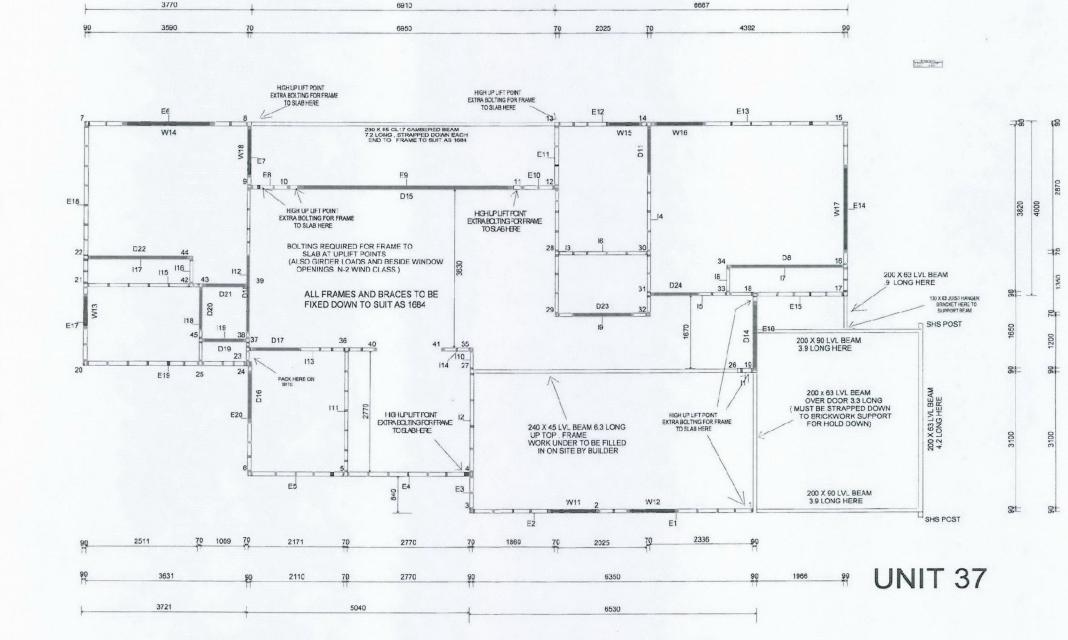
MACPHERSON STREET

WARRIEWOOD BROOK

drawing

PLAN: ILU TYPE C





2520

58. Sie office.



Trueform Frames & Trusses

ABN: 32 074 794 148

UNIT.38

99 Mulgrave Rd. Mulgrave NSW 2756 Ph: (02) 4577.2755 Fax: (02) 4587.8215 trueformframes@bigpond.com.au

MiTek Australia Ltd - MiTek20/20 v4.82 p15 (Build 2345) BCA 2015

*** CERTIFICATION FOR ROOF TRUSSES ***

Date - 10 Oct 2015

10:48:22

Client - PBS BUILDING - , ,

Job Reference - 9013

Site - SINGLE STORY ROOF - UNIT 38 STAGE 5, NO 8 MACPHERSON ST WARRIEWOOD

GENERAL DEFAULTS

Design Wind Speed = 40.0m/s , N2 Wind Classification

Roof Material: Steel Deck (900 crs)

Ceiling Material: 13mm Plaster/direct to BC

Top Chord Restraints; 900 mm Bottom Chord Restraints: 600 mm

Truss Spacing: 600 mm

External Pressure Coefficient: -0.90
Internal Pressure Coefficient: 0.20

Timber Description : QMIX Pitch: 18.00 degrees Overhang: 585 mm Application: Housing

Note: Design data for individual trusses may vary.

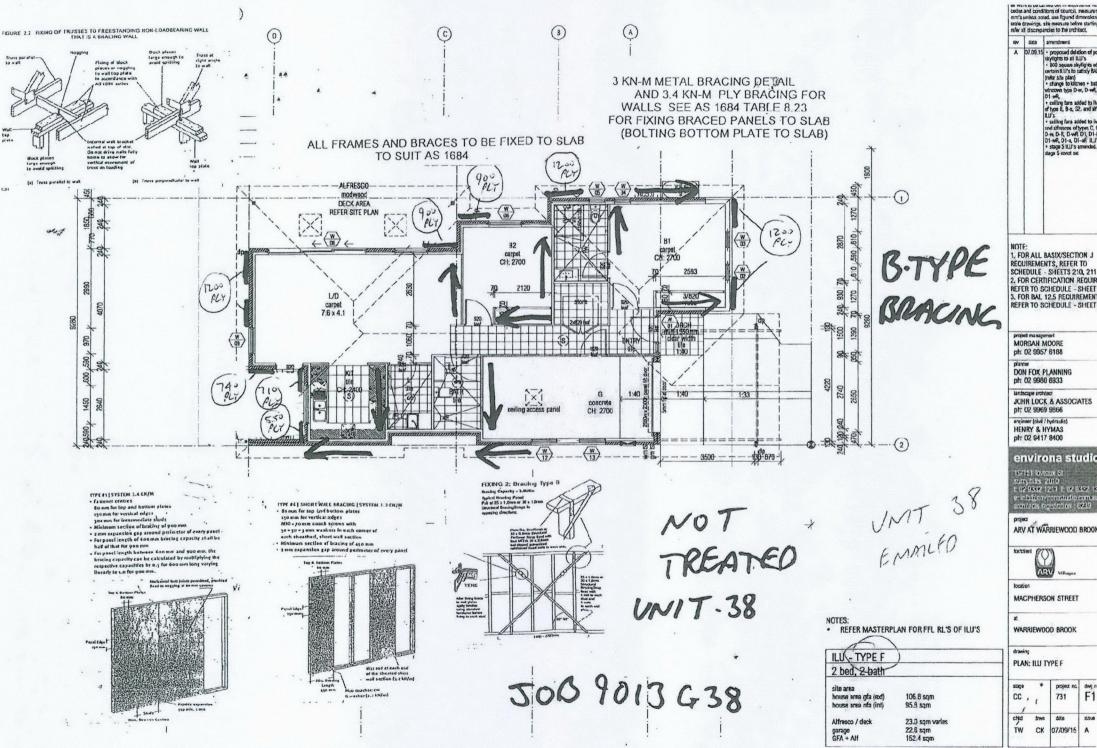
The trusses in this project have been designed using MiTek 20/20, a software suite developed by MiTek Australia Ltd. in accordance with the ABCB Protocol For Structural Software incorporating engineering procedures that comply with relevant requirements in BCA 2015 including AS/NZS 1170.0:2002, AS/NZS 1170.1:2002, AS/NZS 1170.2:2011, AS/NZS 1170.3:2003, AS 1720.1:2010 & AS 4055:2012 among its list of documents.

These trusses should be erected, fixed, and braced in accordance with Australian Standard AS4440, specifications published by MiTek Australia Ltd., and any other requirements supplied by the truss manufacturer.

Trueform Frames & Trusses

certifies that these trusses are manufactured under licence to and in accordance with specifications published by MiTek Australia Ltd.

Designed by:



codes and conditions of council, measured mm's unless noted, use figured dimer scale drawings, site measure before starting refer all discrepancies to the architect.

inembracia esta ver

A 07.09.15 • proposed deletion of po skylights to all ILU's • 800 square skylights of orntain ILU's to satisfy BAI (refer site plan) • change to kitchen • bat

and alfrescos of types C, C D-w, D-R, D-wR D1, D1-D1-wR, D1-s, D1-af, ILJ * stage 5 ft.U's amended, stage 5 const set

1. FOR ALL BASIX/SECTION REQUIREMENTS, REFER TO SCHEDULE - SHEETS 210, 211

project management MORGAN MOORE

DON FOX PLANNING ph 02 9980 6933

lantscape architect JOHN LOCK & ASSOCIATES

ph: 02 9969 9866 angineer (civil / hydraulic)

HENRY & HYMAS ph: 02 9417 8400

environa studio

surryhilis 2010 E 02 9882 1251 E 02 9882

ARV AT WARPIEWOOD BROOM

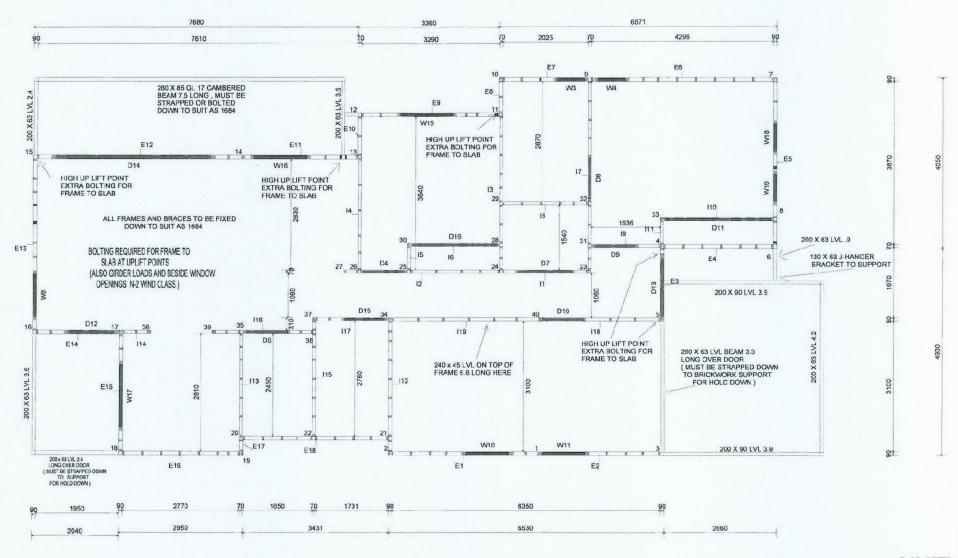


MACPHERSON STREET

WARRIEWOOD BROOK

PLAN: ILLI TYPE F

731 93,9 CK 07/09/15 A



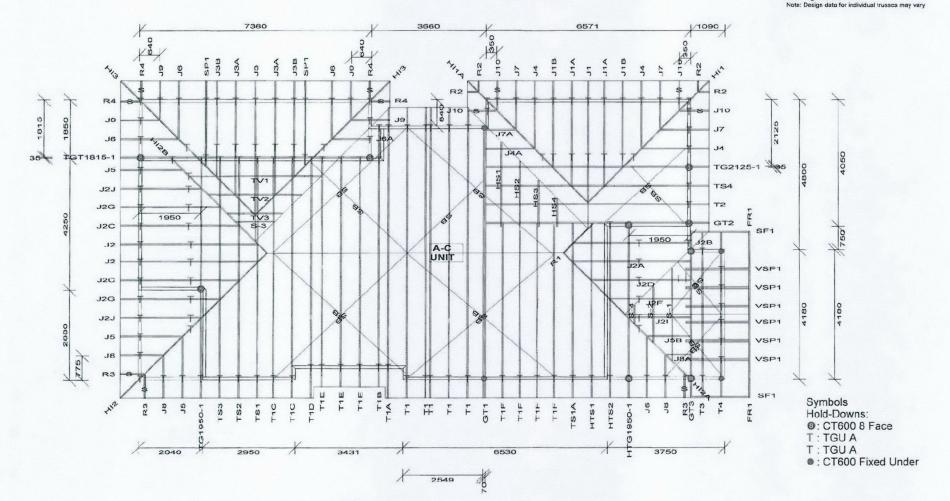
UNIT 38

SEE DETAIL FOR STRUTTING OVER HANGS IN INSTALLATION BOOK PAGE 24

SPEEDBRACE ____SB___

General Defaults

Design Wind Speed = 40.m/s , N2 Wind Classification Roof Material: Steel Deck (900 ors) Ceiling Material: 13mm Plaster/direct to BC Top Chord Restraints: 600 mm Bottom Chord Restraints: 600 mm Extension Spacing: 600 mm Extension Pressure Coefficient: -0.9 Internal Pressure Coefficient: 0.2 Pitch: 18. degrees Overharg: 585 mm



SEE DETAIL A FOR SPEED BRACING ON ENDS OF HALF TRUSSES

UNIT 38

Trueforn Frames and Trusses

) MULGRAVE RD ULGRAVE SW 2756

elephone: 4577.2755 ax: 4587.8215 Client: PBS BUILDING Site: UNIT 38 STAGE 5 : NO 8 MACPHERSON ST

: WARRIEWOOD : NOT TREATED Telephone: Job: 13F-38

Designed by:

ALL TRUSSES TO BE INSTALLED TO SUIT MITEK FIXING & BRACING GUIDELINES FOR TRUSSES.

MAKE SURE ALL BRACING IS PERMANENTLY FIXED AND ALL BOLTS AND BRACKETS ARE TIGHTENED PRIOR TO LOADING OF THE ROOF.



Trueform Frames & Trusses

ABN: 32 074 794 148

99 Mulgrave Rd. Mulgrave NSW 2756 Ph: (02) 4577.2755

Fax: (02) 4587.8215

trueformframes@bigpond.com.au

MiTek Australia Ltd - MiTek20/20 v4.82 p15 (Build 2345) BCA 2015

*** CERTIFICATION FOR ROOF TRUSSES ***

Date - 10 Oct 2015

06:50:15

Client - PBS BUILDING - , ,

Job Reference - 9013

Site - SINGLE STORY ROOF - UNIT 39 STAGE 5, NO 8 MACPHERSON ST WARRIEWOOD

GENERAL DEFAULTS

Design Wind Speed = 40.0m/s , N2 Wind Classification

Roof Material: Steel Deck (900 crs)

Ceiling Material: 13mm Plaster/direct to BC

Top Chord Restraints: 900 mm Bottom Chord Restraints: 600 mm

Truss Spacing: 600 mm

External Pressure Coefficient: -0.90
Internal Pressure Coefficient: 0.20

Timber Description : QMIX Pitch: 18.00 degrees Overhang: 585 mm Application: Housing

Note: Design data for individual trusses may vary.

The trusses in this project have been designed using MiTek 20/20, a software suite developed by MiTek Australia Ltd. in accordance with the ABCB Protocol For Structural Software incorporating engineering procedures that comply with relevant requirements in BCA 2015 including AS/NZS 1170.0:2002, AS/NZS 1170.1:2002, AS/NZS 1170.2:2011, AS/NZS 1170.3:2003, AS 1720.1:2010 & AS 4055:2012 among its list of documents.

These trusses should be erected, fixed, and braced in accordance with Australian Standard AS4440, specifications published by MiTek Australia Ltd., and any other requirements supplied by the truss manufacturer.

Trueform Frames & Trusses

certifies that these trusses are manufactured under licence to and in accordance with specifications published by MiTek Australia Ltd.

Designed by:

Hold-Downs:

@: CT600 8 Face

T: TGU A

T: TGU A

CT600 Fixed Under

UNIT 39

TRUEFORM Trueforn Frames and Trusses

MULGRAVE RD **ULGRAVE** SW 2756

elephone: 4577.2755 ax: 4587.8215

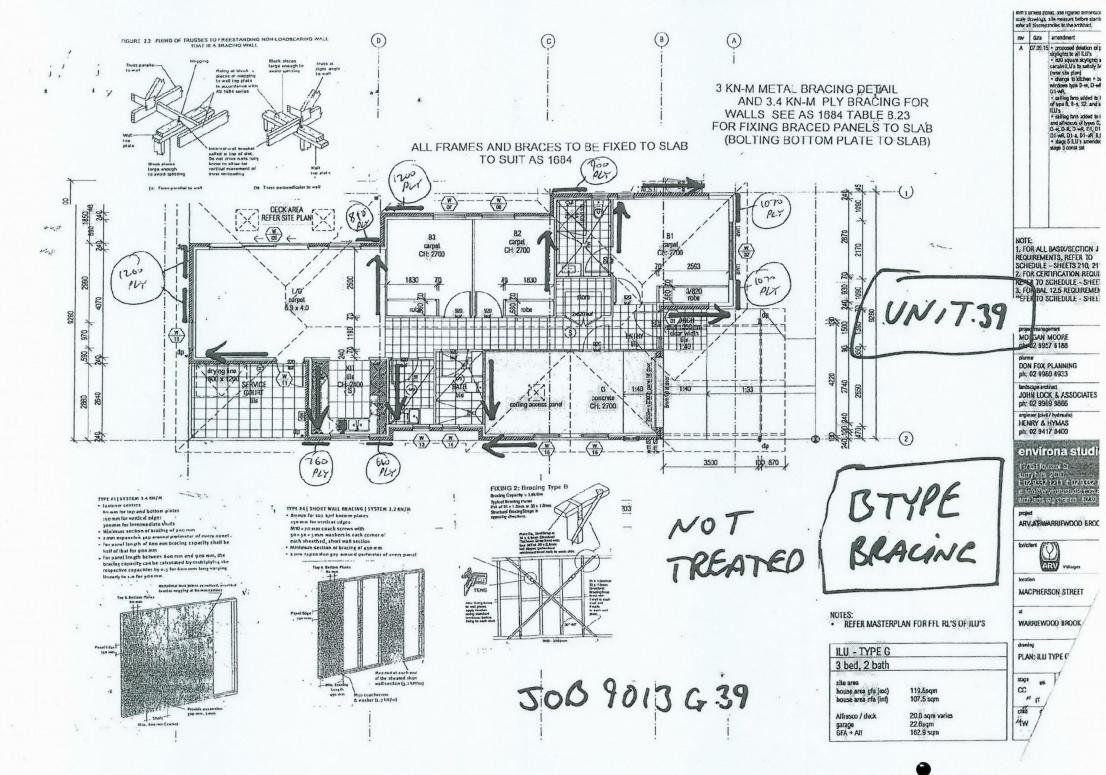
Client: PBS BUILDING Site: UNIT 39 STAGE 5 NO 8 MACPHERSON ST WARRIEWOOD NOT TREATED Telephone:

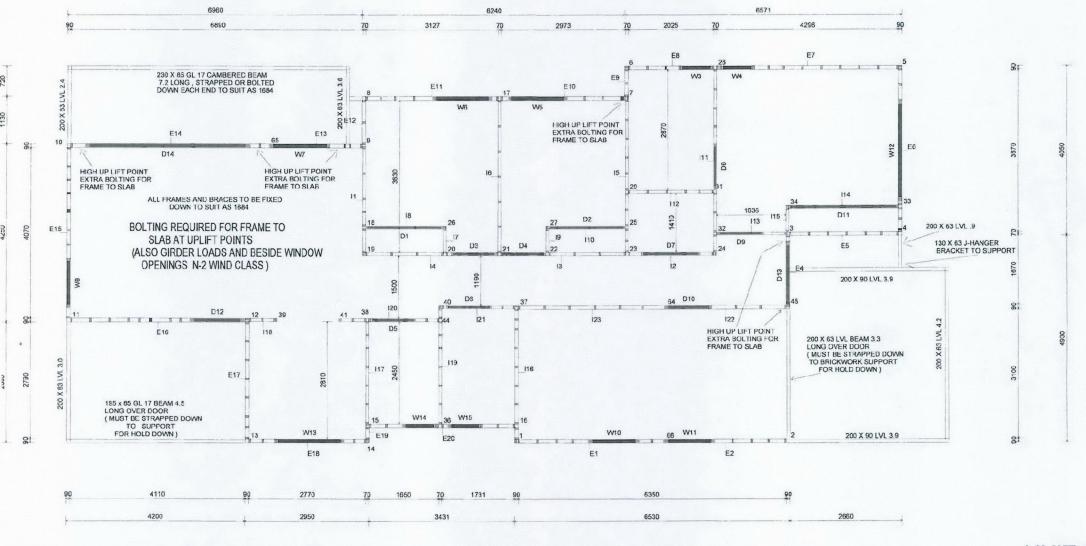
Job: 13	G-39	Designed by: Jason Hellyer
Scale: 1 : 83	Date: 10/10/2015	Drawn By: Jason Hellver

ALL TRUSSES TO BE INSTALLED TO SUIT MITEK FIXING & BRACING GUIDELINES FOR TRUSSES.

MAKE SURE ALL BRACING IS PERMANENTLY FIXED AND ALL BOLTS AND BRACKETS ARE TIGHTENED PRIOR TO LOADING OF THE ROOF.

ENSURE ANY TRUSS SUPPORTED INTERNALLY IS POSITIONED SO WEBS LAND OVER TRUSS SUPPORT WALL





THE PARTY OF

UNIT 39

A STATE OF THE STA	TALLATION / COMPLETION CERTIFICATION
PROJECT	ARV Warriewood - Stage 5 - IOC2 - ILU 34 to 39
ADDRESS	6-14 Macpherson Street Warriewood NSW 2102

Name:	VINCE JENKINS
Company:	ALL ASPECTS ROOFING & GUTTERS
Company Address:	1/2 BON MACE CLOSE, BERKELEY VALE NSW 2261
Phone:	0438 278 985
Fax:	4389 3137
Email:	ALLASPECTSROOFINGSUPPLIES@GMAIL.COM
Qualifications & Experience:	LICENSE NO. 272687C

Hereby certify that the following aspect:

METAL ROOFING WORK (Class 1a)

Have been selected and installed in accordance with (complete as relevant):-

(a)	The drawings submitted included in Schedule A	
(b)	The relevant version of the BCA:	2014
(c)	The relevant clauses of the Building Code of Australia (BCA) as follows:	Part 3.8.5.2 Part 3.12.3
(d)	The relevant Australian Standards as follows (including number, part and year):	AS1562.1-1992 Amdt 1, 2 & 3
(e)	The relevant BASIX/ABSA Certificate	The BASIX Certificate Number 499606M_03
(f)	The requirements of the relevant development consent, including any modified (s96) consent and, including the following condition numbers:	Development Application Number: NO267/13 Modifications up to: S96 No: N0267/13/S96/3
(g)	Is consistent with the approved design for this component	Yes
(h)	Further Comment, or other practices or standards relied upon for this certification:	
(i)	Exclusions:	Yes / No
	٨	If Yes

Signature: JENGNS Date 24/01/17

INS	TALLATION / COMPLETION CERTIFICATION
PROJECT	ARV Warriewood - Stage 5 - IOC2- ILU 34 to 39
ADDRESS	6-14 Macpherson Street Warriewood NSW 2102

Pursuant to the provisions of Clause 1.2.2 of the Building Code of Australia, I (details below):

Name:	Ryan McEwan	
Company:	RGM Carpentry	
Company Address:	45 Mansfield Way Kellyville NSW 2155	
Phone:	0421 571 119	
Fax:	Nil	
Email:	rgmcarpentry@hotmail.com	
Qualifications & Experience:	License # 208355C	

Hereby certify that the following aspect:

WINDOWS (Class 1a)

Have been selected and installed in accordance with (complete as relevant):-

(a)	The drawings submitted included in Schedul	e A
(b)	The relevant version of the BCA:	2014
(c)	The relevant clauses of the Building Code of Australia (BCA) as follows:	
(d)	The relevant Australian Standards as follows (including number, part and year):	AS 2047-1999 Amdt 1 & 2
(e)	The relevant BASIX/ABSA Certificate	
(f)	The requirements of the relevant development consent, including any modified (s96) consent and, including the following condition numbers:	Development Application Number: NO267/13 Modifications up to: S96 No: N0267/13/S96/3
(g)	Is consistent with the approved design for this component	
(h)	Further Comment, or other practices or standards relied upon for this certification:	
(i)	Exclusions:	Yes / No If Yes

Unit 7, 118-120 Somers Street Lawson NSW 2783 Abn 30 669 758 510 Licence 214991C

Glazing Compliance Certificate BMSSGC 0127

Part A - Manufacturer's certification:

As glazing manufacturer, I certify that the glass panels/shower screens/mirrored wardrobes doors/mirrors,

Supplied to:

PBS Building (NSW) Pty Ltd

Delivered on:

19 April 2016

Reference:

Quote 4121

Invoice Number: BMSS1745

Address:

Units 36

ARV, 6-14 Macpherson Road Warriewood

Have been manufactured to comply with: AS1288

(Glass in buildings-selection and installations) including human impact requirements as specified.

We verify that we have 13 Years Experience in Glass Installations.

Signed,

Frank Morales

Glazing Company Manager

Date 19 April 2016

Part B -Installer's certification:

As the principal contractor/installer, I certify that the glass panels/shower screens/mirrored wardrobes doors/mirrors, including all supplied glazing requiring human impact safety, have been installed in accordance with the provisions of Part 3.6 of the Building Code of Australia. Signed,

Frank Morales

Principal Contractor/Installer

Date 19 April 2016

Mobile 0414 941 587

Fax 02 4759 3675 Email bmshowerscreens@bigpond.com

Unit 7, 118-120 Somers Street Lawson NSW 2783 Abn 30 669 758 510 Licence 214991C

Glazing Compliance Certificate

BMSSGC 0115

Part A - Manufacturer's certification:

As glazing manufacturer, I certify that the glass panels/shower screens/mirrored wardrobes doors/mirrors,

Supplied to:

PBS Building (NSW) Pty Ltd

Delivered on:

19th January 2016

Reference:

Quotes 4061

Invoice Numbers: BMSS1591

Address:

Units 35, 37, 40.

ARV, 6-14 Macpherson Road Warriewood

Have been manufactured to comply with: AS1288

(Glass in buildings-selection and installations) including human impact requirements as specified.

We verify that we have 13 Years Experience in Glass Installations.

Signed,

Frank Morales

F Marcho

Date 19th Jan 2015

Part B -Installer's certification:

As the principal contractor/installer, I certify that the glass panels/shower screens/mirrored wardrobes doors/mirrors, including all supplied glazing requiring human impact safety, have been installed in accordance with the provisions of Part 3.6 of the Building Code of Australia. Signed,

Frank Morales

Date 19th Jan 2015

Unit 7, 118-120 Somers Street Lawson NSW 2783 Abn 30 669 758 510 Licence 214991C

Glazing Compliance Certificate

BMSSGC 0179

Part A - Manufacturer's certification:

As glazing manufacturer, I certify that the glass panels/shower screens/mirrored wardrobes doors/mirrors,

Supplied to:

PBS Building (NSW) Pty Ltd

Delivered on:

28 October 2016

Reference:

Ouote 4121

Invoice Number: BMSS2165

Address:

Units 38,39.

ARV, 6-14 Macpherson Road Warriewood

Have been manufactured to comply with: AS1288

(Glass in buildings-selection and installations) including human impact requirements as specified.

We verify that we have 13 Years Experience in Glass Installations.

Signed,

Frank Morales

F Marolo

Date 28 October 2015

Part B -Installer's certification:

As the principal contractor/installer, I certify that the glass panels/shower screens/mirrored wardrobes doors/mirrors, including all supplied glazing requiring human impact safety, have been installed in accordance with the provisions of Part 3.6 of the Building Code of Australia. Signed,

Frank Morales

Date 28 October 2015

Unit 7, 118-120 Somers Street Lawson NSW 2783 Abn 30 669 758 510 Licence 214991C

Glazing Compliance Certificate

BMSSGC 0127

Part A - Manufacturer's certification:

As glazing manufacturer, I certify that the glass panels/shower screens/mirrored wardrobes doors/mirrors,

Supplied to:

PBS Building (NSW) Pty Ltd

Delivered on:

19 April 2016

Reference:

Quote 4121

Invoice Number: BMSS1745

Address:

Units 36

ARV, 6-14 Macpherson Road Warriewood

Have been manufactured to comply with: AS1288

(Glass in buildings-selection and installations) including human impact requirements as specified.

We verify that we have 13 Years Experience in Glass Installations.

Signed,

Frank Morales

F Marolo

Date 19 April 2016

Part B -Installer's certification:

As the principal contractor/installer, I certify that the glass panels/shower screens/mirrored wardrobes doors/mirrors, including all supplied glazing requiring human impact safety, have been installed in accordance with the provisions of Part 3.6 of the Building Code of Australia. Signed,

Frank Morales

Date 19 April 2016

Unit 7, 118-120 Somers Street Lawson NSW 2783 Abn 30 669 758 510 Licence 214991C

Glazing Compliance Certificate

BMSSGC 0116

Part A - Manufacturer's certification:

As glazing manufacturer, I certify that the glass panels/shower screens/mirrored wardrobes doors/mirrors,

Supplied to:

PBS Building (NSW) Pty Ltd

Delivered on:

2nd February 2016

Reference:

Quotes 4075, 4098

Invoice Numbers: BMSS1608, BMSS1609

Address:

Units 34, 42, 45

ARV, 6-14 Macpherson Road Warriewood

Have been manufactured to comply with: AS1288

(Glass in buildings-selection and installations) including human impact requirements as specified.

We verify that we have 13 Years Experience in Glass Installations.

Signed,

Frank Morales

F Marals

Date 2 Feb 2016

Part B -Installer's certification:

As the principal contractor/installer, I certify that the glass panels/shower screens/mirrored wardrobes doors/mirrors, including all supplied glazing requiring human impact safety, have been installed in accordance with the provisions of Part 3.6 of the Building Code of Australia. Signed,

Frank Morales

Date 2 Feb 2016

INST	FALLATION / COMPLETION CERTIFICATION
PROJECT	ARV Warriewood - Stage 5 - IOC2 - ILU 34 to 39
ADDRESS	6-14 Macpherson Street Warriewood NSW 2102

Pursuant to the provisions of Clause 1.2.2 of the Building Code of Australia, I (details below):

Name:	DOUG MOORE			
Company:	NATURAL LIGHTING PRODUCTS			
Company Address:	1/28 VORE ST SILVERWATER			
Phone:	0297379555			
Fax:	02 96485955			
Email:	dougenaturallighting com av			
Qualifications & Experience:	LICENCE Nº 202066 C			

Hereby certify that the following aspect:

SKYLIGHT (Class 1a)

Have been selected and installed in accordance with (complete as relevant):-

(a)	The drawings submitted included in Schedul	le A
(b)	The relevant version of the BCA:	2014
(c)	The relevant clauses of the Building Code of Australia (BCA) as follows:	Part 3.7.1.10 Part 3.12.3
(d)	The relevant Australian Standards as follows (including number, part and year):	AS 1288-2006 Amdt 1 & 2
(e)	The relevant BASIX/ABSA Certificate	The BASIX Certificate Number 499606M_03
(f)	The requirements of the relevant development consent, including any modified (s96) consent and, including the following condition numbers:	Development Application Number: NO267/13 Modifications up to: S96 No: N0267/13/S96/3
(g)	Is consistent with the approved design for this component	Yes
(h)	Further Comment, or other practices or standards relied upon for this certification:	
(i)	Exclusions:	Yes / No If Yes

	1 /1/man		11-1-17	
Signature:	/ / ////	Date!	0-1-11	

ANNEXURE 1 - BASIX INSTALLATION DETAILS - BASIX Certificate Number 499606M_03

Dwellings

Water:

The relevant contractor or subcontractors have planted indigenous and/or low water use species of vegetation throughout the area of land specified for the dwelling in the "Indigenous species" BASIX Certificate, as private landscaping for that dwelling.

All fixtures or appliances have been installed in dwellings, as specified within the BASIX Certificate. i.e. (to all dwellings):

- ♦ 3 star shower heads
- ◆ 4 star toilet flushing systems
- 4 star kitchen and bathroom taps
- For ILU 37 and 38, rain water tank of minimum 1000 L size, collecting run off from at least 50 sqm of roof area and has landscape connection.
- For ILU 34, 35, 36, and 39, rain water tank of minimum 1000 L size, collecting run off from at least 50 sgm of roof area, has landscape connection and toilet connection.

The relevant contractor or subcontractors have installed, for each dwelling, each alternative water supply system, with the specified size, listed for that dwelling in the BASIX Certificate. Each system has been configured to collect run-off from the areas specified (excluding any area which supplies any other alternative water supply system), and to divert overflow as specified. Each system has been connected as specified.

Energy:

The relevant contractor or subcontractors have installed each hot water system specified for the dwelling in the BASIX Certificate, so that the dwelling's hot water is supplied by that system (gas instantaneous 5 star)

The relevant contractor or subcontractors have installed, in each bathroom, kitchen and laundry of the dwelling, the ventilation system specified for that room in the BASIX Certificate. Each such ventilation system has operation controls and manual switch on/off as specified for it in the BASIX Certificate.

The relevant contractor or subcontractors have installed the cooling and heating system/s specified for the dwelling under the "Living areas" and "Bedroom areas" headings of the "Cooling" and "Heating" columns in the BASIX Certificate, in living/bedroom areas of the dwelling. If no cooling or heating system is specified in the BASIX Certificate for "Living areas" or "Bedroom areas", then no systems have been installed in any such areas. If the term "zoned" is specified beside an air conditioning system, then the system has provided for day/night zoning between living areas and bedrooms.

Where required by the BASIX Certificate, the relevant contractor or subcontractors have ensured that the "primary type of artificial lighting" for each such room in the dwelling is fluorescent lighting or light emitting diode (LED) lighting. If the term "dedicated" is specified for a particular room or area, then the light fittings in that room or area are only capable of being used for fluorescent lighting or light emitting diode (LED) lighting.

This commitment applies to each room or area of the dwelling which is referred to in a heading to the "Natural lighting" column of the table below (but only to the extent specified for that room or area). The relevant contractor or subcontractors have ensured that each such room or area is fitted with a window and/or skylight.

The relevant contractor or subcontractors have installed in each dwelling:

(aa) the kitchen cook top and oven specified for that dwelling in the "Appliances & other efficiency measures" column of the BASIX Certificate;

(bb) each appliance for which a rating is specified for that dwelling in the "Appliances & other efficiency measures" column of the table, and ensure that the appliance has that minimum rating; and

(cc) any clothes drying line specified for the dwelling in the "Appliances & other efficiency measures" column of the BASIX Certificate.

Thermal Comfort:

The relevant contractor or subcontractors have constructed the development in accordance with all thermal performance specifications set out in the BASIX Certificate.

General

Buildings have been constructed, installed and implemented all requirements of the BASIX Certificate Number 499606M_03. The Development is considered to comply with the intention of the BASIX Certificate Number 499606M_03.

Signature: ////////

Date 16-1-17

INSTALLA	TION / COMPLETION CERTIFICATION
PROJECT	ARV Warriewood – Stage 5 – IOC2 – ILU 34 to 39
ADDRESS	6-14 Macpherson Street Warriewood NSW 2102

Pursuant to the provisions of Clause 1.2.2 of the Building Code of Australia, I (details below):

Name:	Robert Theigh.
Company:	Elik Tile Droveck
Company Address:	17 Mortimer Cl Cekil Hills NSW 2171
Phone:	0421 681 192
Fax:	
Email:	rob @ elite tile project, com
Qualificetions & Experience:	rob @ elite tile project com lique # 207 5/4 C.

Hereby certify that the following espect:

WATERPROOFING WORK (Class 1a)

Have been selected and installed in accordance with (complete as relevant):-

(a)	The drawings submitted included in Schedul	e A
(b)	The relevant version of the BCA:	2014
(c)	The relevant clauses of the Building Code of Australia (BCA) as follows:	Part 3.8.5.2 Table 3.8.1.1
(d)	The relevant Australian Standards es follows (including number, part and year):	AS 3740-2010 Amdt 1
(e)	The relevant BASIX/ABSA Certificate	
(f)	The requirements of the relevant development consent, including any modified (s96) consent end, including the following condition numbers:	Development Application Number: NO267/13 Modifications up to: S96 No: N0267/13/S96/3
(g)	Is consistent with the approved design for this component	Yes
(h)	Further Comment, or other practices or standards relied upon for this certification:	
(i)	Exclusions:	Yes (No
		If Yes

Signature: Date 11/1/2016.



Building Code & Bushfire Hazard Solutions

FPA

A USTRALIA

Certified Business

Bushfire Planning & Design
BPD-BA-02354

(Pty. Limited) ABN 19 057 337 774 PO Box 124, Berowra NSW 2081 Telephone: (02) 9457 6530 Facsimile: (02) 9457 6532 www.bushfirehazardsolutions.com.au

PBS Building (NSW) Pty Ltd Unit 18, 11 – 21 Underwood Road HOMEBUSH NSW 2140 25th January 2017 Our Ref. 130164

Attn: Mr Roi Cifti

Email: roi.ciftci@pbsbuilding.com.au

Re: APPROVED SENIORS LIVING / AGED CARE COMPLEX

STAGE 4 ANGLICAN RETIREMENT VILLAGE
MACPHERSON STREET, WARRIEWOOD NSW
BUSHFIRE OCCUPATION CERTIFICATION COMMENT

Dear Roi,

Thank you for allowing us to undertake this assessment for you.

The purpose of this certification comment is to ascertain compliance or otherwise of the completed works within units 34-39 with condition 25 of the Conditions of Approval issued by Warringah Council dated 20th February 2014, ref N0267/13 for Stage 4 which involved the demolition, earthworks, and construction of a seniors housing development consisting of 33 self-contained seniors dwellings with a community building, landscaping and car parking at 6-14 Macpherson Street, Warriewood (Lots 1, 2, 3, 4 and 5 DP 1161389).

A company representative has inspected the subject site and where necessary we retain any certificates or other information relied upon for this assessment on file.

As a suitable qualified bushfire consultant (FPAA BPAD Scheme No 9399 L3) it is my opinion that the completed works within units 34-39 comply with condition 25 of the Conditions of Approval issued by Warringah Council dated 20th February 2014, ref N0267/13.

Should you have any enquiries regarding this project please contact me at our office.

Prepared by,

Prepared b-y
Building Code & Bushfire Hazard Solutions

Wayne Tucker

G. D. Design in Bushfire Prone Areas.
Certificate IV Fire Technology
Ass Dip Applied Science
Manager - Bushfire Section
Building Code and Bushfire Hazard Solution
Fire Protection Association of Australia BPAD – L3 Accredited Practitioner
Certification number – BPD – 9399



H&H Consulting Engineers
Pty Ltd (trading as Henry & Hymas)

ABN 77 091 243 355 ACN 091 243 355 Address Level 5 79 Victoria Avenue Chatswood New South Wales 2067 Telephone +61 2 9417 8400

Facsimile +61 2 9417 8337

Email email@hhconsult.com.au

Web www.henryandhymas.com.au



25 January 2017

Our Ref: 12693-S12/rk

PBS Building (NSW) Pty Limited Unit 18, 11-21 Underwood Rd, Homebush NSW 2140

Attention: Mr Roi Cifti

Dear Sir,

RE: STRUCTURAL CONSTRUCTION CERTIFICATION STAGE 5, LOTS 34-39, ARV RETIREMENT VILLAGE 6-14 MACPHERSON STREET, WARRIEWOOD NSW 2101

We wish to certify that we have progressively, during construction, inspected the following structural items of the project above.

- Reinforcement to pad footings and strip footings
- Reinforcement to waffle pod raft slabs on ground
- Reinforcement to suspended waffle pod raft slabs on ground
- Reinforcement to reinforced block retaining walls
- Structural steel columns, beams and lintels to wall and roof framing

Based on our periodical, visual inspections we verify that all structural elements designed by H & H Consulting Engineers on the project above were constructed to our satisfaction and in general accordance with our design and documentation at the time of inspection

Further we verify, that on the basis of our periodical visual inspections, all building elements have to the best of our knowledge, been constructed to generally achieve the applicable FRLs outlined in Specification C1.1 of the BCA.

I am an appropriately qualified and experienced person in this field and as such have a capacity to certify these works on behalf of Henry & Hymas Consulting Engineers.





Our involvement, the inspections and this certificate shall be taken as in no way relieving the contractor of any of his legal responsibilities.

Yours faithfully,

R.J. KUSTURIN BE(hons) MIE, CPENG, Mem No 59969 For, and on behalf of,

H & H Consulting Engineers Pty Ltd

Helcoi

Screw Pile Installation

Form

Certificate of Compliance

Builder's Supervisor 1. Project Information Builder PBS Building (NSW) P/L Peter Carter 2. Site address and details Street Address (Include Lot no., street, suburb/locality & postcode) All property details Anglican Retirement Village. STAGE 5- Units 34 to 59 & Gate house. 8 Macpherson St, Warriewood, Postcode 2102 Plan details (Drawing number & sheet numbers) Structural drawings 12693 – S5.00-S5.03, S4.00-S4.04 by H&H Geotechnical report 13145/1 by Geotechnique 3. Scope of Work for Scope of work covered and subject of this certification: (tick) -Compliance X Screw piles in accordance with AS 2159 Designed & Constructed in accordance with plans and specifications issued. Other (provide details) Design, Supply & Installation of compression screw piles in accordance with above drawings. 4. Installation Details When was the request for installation made? Date July-15 When was the installation started? Date Aug-15 When was the installation completed? Date Dec-15 5. Declaration I hereby certify that the stated Scope of Works has been completed in Full details and signature o compliance with AS 2159 – 2009 and constructed in accordance with the the responsible person will relevant plans and specifications as supplied to Helcon for the works and that need to be provided to veril the information provided on this form is a true and accurate record. that the work covered complies with AS 2159 - 2009. Company Name Helcon Contracting Australia Pty Ltd Licence Number Name Brian Carpenter 253147C Phone Number Fax Number 02 9516 5093 02 9516 5193 Address Unit 10 / 45-51 Huntley Street, ALEXANDRIA Postcode 2015 Signature Date 25-02-16

OFFICE USE ONLY				
Date Received	Receiving Officer's Name/s	B.G. Carpenter	Reference Number/s	Manual Cert

H&H Consulting Engineers Pty Ltd (trading as Henry & Hymas)

ABN 77 091 243 355 ACN 091 243 355 Address Level 5 79 Victoria Avenue Chatswood New South Wales 2067 Telephone +61 2 9417 8400

Facsimile +61 2 9417 8337

Email@hhconsult.com.au

Web www.henryandhymas.com.au



25 January 2017

Our Ref: 12693-C7/af

City Plan Services Pty Ltd 364 Kent Street SYDNEY NSW 2000

Attention: Brendan Bennett

Dear Sir,

RE: ANGLICARE RETIREMENT VILLAGE

CERTIFICATION OF CONSTRUCTED WORKS – STAGE 5

CIVIL ENGINEERING

SUBJECT PREMISES: 6- 14 Macpherson Street, WARRIEWOOD NSW 2101

Lot 1, 2, 3, 4, and 5 DP 1161389.

DEVELOPMENT CONSENT: PITTWATER COUNCIL DA NO. NO267/13

In reference to the aforementioned development, I offer the following certification of the constructed stormwater and water quality management works for Stage 5 of the aforementioned development. Based on a review of the completed works, we verify that the constructed stormwater works and water quality management works are generally in accordance with the approved Construction Certificate documentation. The constructed works are also in accordance with or meet the requirements of:

- AS3500 'National Plumbing and Drainage Code' Part 3: Stormwater Drainage;
- Warriewood Valley Urban Land Release Water Management Specification (WMS);
- Pittwater Council Development Control Plan 21;
- Conditions E4 of the Development Consent dated 20 February 2014 (which verified that C9 and C10 have been implemented);
- Conditions B9 of the Development Consent dated 20 February 2014 (which relates to overflow from the rainwater tanks discharging into the adjacent waterway with erosion minimisation measures installed. Note that overflows from the rainwater tanks are piped to the in-ground pipe network and not to the adjacent waterway);
- Updated Water Management Plan;
- Warriewood Valley Water Management Specification (February 2001).

I am an appropriately qualified and experienced person in this field and as such have a capacity to certify these works on behalf of Henry & Hymas Consulting Engineers.





Designer:

Andrew Francis

Qualifications:

B.E. (Civil)

Employer:

H & H Consulting Engineers Pty Ltd

Address:

Level 5, 79 Victoria Ave CHATSWOOD

Business Tel. No:

9417 8400

Fax No: 9417 8337

H & H Consulting Engineers possesses indemnity insurance to the satisfaction of the Client. However, this certificate shall not be construed in any way to relieve any other party of their responsibilities.

Yours faithfully,

ANDREW FRANCIS
For, and on behalf of,

H & H Consulting Engineers Pty Ltd



DESIGN STATEMENT OF COMPLIANCE No3

Site Details:							
Street no. / name:	6-14 Macpherson S	it					
Suburb:	Warriewood	Warriewood State: NSW Postcode:					
Description of Work:	Dwellings and community facility for aged persons NO 267/13						
Scope of Certificate	This Statement / Certificate relates to: • ILUs 34-39						

Certification:

DA Item No.	Tick box for items to be certified	Detail of Condition of Consent or Design Standard (BCA AS1428.1 etc)	Verification Method
B26 C21	~	2 visitor parking spaces complying with AS 2890.6 shall be provided – 1 at the community centre and 1 near the main entrance	Inspection
C17	1	Confirmation that the recommendations of the access report submitted for DA are implemented.	Inspection
C25	1	The drawings shall indicate 4 dwellings have a garage width of 4.8m.	Inspection
C26	✓	An access consultant is to confirm that access is maintained from the front door to the street with the inclusion of an additional carport.	Inspection
D14	~	The requirements for SEPP SL Schedule 3 shall be incorporated into the design	Inspection
E16	✓	An accredited access consultant shall confirm that the CC requirements have been incorporated into the built works	Inspection

I, the undersigned, certify that the above Design Standards have been satisfactorily incorporated within the building work. The following documents have been used in this assessment:

List of Certified Drawings/documents: Report by Accessible Building Solutions Date of report: 27th August 2013

I also certify that I am an appropriately qualified and competent person practising in the relevant area of work. I have recognised relevant experience in the area of work being certified. I am holding appropriate current professional indemnity insurance to the satisfaction of the building owner or the principal authorising the design work being certified.

Name:

Howard Moutrie

BArch(Hons).

Accessible Building Solutions

ACAA Accredited Access

Consultant No 177

Company Name:

58 006 628 812

Company Address:

124 Upper Washington Drive Bonnet Bay

02 9528 0276

Signature:

Matrie

Position Title:

Qualification:

ABN No:

Director

Date:

Tel:

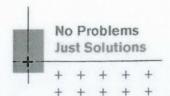
20th January 2017

Page 1 of 1

Isberg Pty Ltd T/A Accessible Building Solutions



Unit 3 78 Reserve Road Artarmon NSW 2064 T +61 2 9439 6925
E sydney@landsurveys.net.au
W landsurveys.net.au
ABN 15 121 941 277



20 January 2017

Mr Roi Ciftci PBS Building (NSW) Pty Limited, Unit 18, 11-21 Underwood Rd, HOMEBUSH NSW 2140

Dear Mr Ciftci,

Re: Building Completion Survey Level Report ARV at Warriewood Brook, 6-10 MacPherson Street, Warriewood

In accordance with your instructions I have surveyed and for the purpose of a DA compliance level check part (being Stage 5) of the Warriewood Brook development standing upon Lots 3-5 in Deposited Plan 1161389.

The floor levels of the residences relative to Government Mark PM15549 (RL9.375m AHD) are as follows:

Unit	Floor RL (m)	Unit	Floor RL (m)	Unit	Floor RL (m)
ILU35	7.89	ILU44	7.37	ILU53	6.02
ILU36	8.215	ILU45	7.75	ILU54	6.3
ILU37	7.645	ILU46	6.275	ILU55	5.405
ILU38	7.91	ILU47	6.645	ILU56	5.515
ILU39	8.25	ILU48	6.995	ILU57	5.77
ILU40	7.2	ILU49	6.28	ILU58	6.04
ILU41	7.53	ILU50	6.69	ILU59	6.27
ILU42	7.77	ILU51	7.005		
ILU43	7.095	ILU52	5.81		

All the levels identified exceed the supplied Probable Maximum Flood level plus 0.2m value of RL5.4m. Please note that the PMF level value has not investigated by me.

Please contact our office on (02) 9439 6925 should there be any queries in relation to the above.

Yours sincerely

Gerald Sellwood

Registered Surveyor - No. 8183



H&H Consulting Engineers Pty Ltd (trading as Henry & Hymas)

ABN 77 091 243 355 ACN 091 243 355 Address Level 5 79 Victoria Avenue Chatswood New South Wales 2067 Telephone +61 2 9417 8400

Facsimile +61 2 9417 8337

Email email@hhconsult.com.au

Web www.henryandhymas.com.au



20 January 2017

Our Ref: 12693-C7/af

City Plan Services Pty Ltd 364 Kent Street SYDNEY NSW 2000

Attention: Brendan Bennett

Dear Sir,

RE: ANGLICARE RETIREMENT VILLAGE

CERTIFICATION OF CONSTRUCTED WORKS – STAGE 5

CIVIL ENGINEERING

SUBJECT PREMISES: 6- 14 Macpherson Street, WARRIEWOOD NSW 2101

Lot 1, 2, 3, 4, and 5 DP 1161389.

DEVELOPMENT CONSENT: PITTWATER COUNCIL DA NO. NO267/13

In reference to the aforementioned development, I offer the following certification of the constructed stormwater and water quality management works for Stage 5 of the aforementioned development. Based on a review of the completed works, we verify that the constructed stormwater works and water quality management works are generally in accordance with the approved Construction Certificate documentation. The constructed works are also in accordance with or meet the requirements of:

- AS3500 'National Plumbing and Drainage Code' Part 3: Stormwater Drainage;
- Warriewood Valley Urban Land Release Water Management Specification (WMS);
- Pittwater Council Development Control Plan 21;
- Conditions E4 of the Development Consent dated 20 February 2014 (which verified that C9 and C10 have been implemented);
- Updated Water Management Plan;
- Warriewood Valley Water Management Specification (February 2001).

I am an appropriately qualified and experienced person in this field and as such have a capacity to certify these works on behalf of Henry & Hymas Consulting Engineers.

Designer: Andrew Francis
Qualifications: B.E. (Civil)

Employer: H & H Consulting Engineers Pty Ltd Address: Level 5, 79 Victoria Ave CHATSWOOD Business Tel. No: 9417 8400 Fax No: 9417 8337





H & H Consulting Engineers possesses indemnity insurance to the satisfaction of the Client. However, this certificate shall not be construed in any way to relieve any other party of their responsibilities.

Yours faithfully,

ANDREW FRANCIS
For, and on behalf of,

H & H Consulting Engineers Pty Ltd





LANDSCAPE WARRANTY &
MAINTENANCE MANUAL
ARV WARRIEWOOD
Stage 5
PBS BUILDING



Contents

SECTION 1 - CONTACT DETAILS

SECTION 2 - OVERVIEW

SECTION 3 - MAINTENANCE/OPERATION MANUALS



CONTACT DETAILS

Contact: Landscape Solutions Pty Ltd

Dave Freston Project Manager

Address: 16 Distribution Place

Seven Hills NSW 2147

Mobile: 0457 806 802

Telephone: 02 8805 6222

Fax: 02 8805 6299

Email: dfreston@landscapesolutions.com.au

Website: www.landscapesolutions.com.au

Job Number: 9627

SECTION 2 - OVERVIEW

OVERVIEW

The landscape works have been installed as per the plans, documents, and client and architects instructions.

The works includes:-

- Concrete paths
- Garden & turf areas
- Street Furniture
- Retaining Walls
- Communal Car park & Driveways

PLANTS

This project contains a variety of native plants that compliment the area and with professional landscape management will provide enjoyment in years to come.

Landscape Solutions guarantees the plants installed on this project against any deaths caused by poor landscape management for the period of our maintenance contract.

Any deaths caused through poor plant selection or vandalism, Landscape Solutions will be able to provide a competitive price to reinstate or provide advice as to a more suitable species of plant.

Dianella Caerulea



Description: The evergreen foliage of this species from eastern Australia arises in clumps from a creeping rhizome often with elongated, cane like stems. The grass like leaves, up to 3 ft (1m) long rough margins and open pinnacles, up to 24 in (60cm) tall, support small starry blue flowers in spring and summer. These are followed in the autumn by purple blue berries.

They prefer sun or part shade and a moderately fertile, humus-rich well drained to acidic soil.

Tristaniopsis Laurina 'Luscious'



Description: Medium sized, evergreen tree with a dense canopy of oblong shaped green leaves. Produces a mass of fragrant yellow flowers in Summer. Leaves can turn red in cooler climates. Use as a street tree, specimen tree, shade tree and wind broak.

Prefers moist well drained soil rich in organic matter. Tolerant to compacted, wet soils. Requires consistent moisture levels in soil. Regular supplementary watering in Summer is beneficial. Mulching will help retain soil moisture.

Westringia Fruticosa 'Jervis Gem'



Description: very hardy and adaptable shrub, perfect for Aussie Mediterranean and coastal gardens. Plant with Agonis Burgundy, Acacia Green Mist and Leptospermum Copper Glow. Perfect for Formal gardens. Clip into shapes or as a low hedge

Slow release of native fertiliser in spring is good.. Pests are not usually a problem with "Jervis gem", however Curl grubs could be an issue in

some areas. Curl grubs are in the soil and eat the roots. Plants can suffer from a form of foliage die-back which is usually a result of damage to the roots. This is normally the result of bad drainage conditions, or Curl grubs. Generally speaking these plants are easy to care for.

Acmena smithii

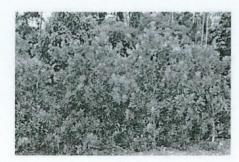


Description: Acmena smithii is a summer flowering evergreen tree, belonging to the myrtle family Myrtaceae. It is commonly planted as shrubs or hedgerows. It features rough woody bark, cream and green smooth waxy leaves with flushes of pink new growth and white to maroon edible berries. It shares the common name "Lilly Pilly" with several other plants. Unpruned it will grow about 3–5 m tall. Sprays of tiny white flowers with prominent stamens appear in early

summer followed by white, pink or mauve fruits in late summer.

It responds to slipping and extra water and fertilizer with flushes of coppery new growth.

Callistemon Citrinus 'Endeavour'



Description: Dense large shrub or small tree with dark green rigid leaves and brilliant scarlet bottlebrush style flowers. Can be used for screen planting or as a windbreak in small gardens. Also a popular choice in coastal plantings or as a street tree. Good bird attractor for nectar feeding.

The plant will grow in most garden soils and is tolerant of quite harsh sites from dry to poor draining soils. Can endure less than perfect drainage but usually performs best in gardens with reasonable drainage and regular availability of water. Excellent for swampy sites but can also tolerate drought conditions.

Trachelospermum Jasminoides



Description: Sweetly scented, pure white flowers carried in terminal racemes from late October until Late December. The flowers are salver form and are enhanced by dark green, shining foliage.

The plant is hardy and very little care other than watering and mulching through summer plus annual fertilising with a slow-release complete fertiliser is needed. It may be pruned lightly after flowering to control any wayward growth.

Lomandra Hystrix



Description: Lomandra hystrix naturally grows on the edge of fresh and brackish water creeks, swamps, rivers and in moist gullies. It tolerates dry conditions, but does better in climates with summer rainfall or with top up summer watering, Ideal for moist soils.

Lomandra Longifolia



Description: An improved semi-compact slightly finer leaf form of the popular Lomandra longifolia. It grows to 900mm high with a spread of 900mm. In dry climates it grows slightly smaller, to 600mm high. Water as required to keep the plant healthy for the first 8 to 13 weeks. After this irrigation is optional (not required) Do not excessively irrigate.

Eucalyptus Robusta



Description: Eucalyptus robusta grows as a tree to around 20–30 metres tall, with a trunk up to 1 metre in diameter at breast height. The trunk and branches are covered with thick red-brown bark, which has a spongy feel and is stringy—peeling in longitudinal strips. The long irregular branches spread laterally, and form a dense canopy with the broad green leaves. The white or cream flowers are clustered in inflorescences of from seven to 13 flowers

MAINTENANCE

FREQUENCY OF VISITS

The visits will be on a fortnightly basis during summer and once every 3 weeks during winter. Initial maintenance will be more intensive to ensure successful growth of both turf and plants.

MOWING

Lawns will be mowed as required to maintain a dense swathe of grass. The turf should not be cut to short as it provides additional stress on the turf. The turf will be cut using high quality equipment that is maintained in excellent condition.

WATERING

All areas will be watered as required to maintain healthy growth of turf and plants.

If an irrigation system is installed Landscape Solutions will monitor the quantity of water being delivered and adjust the system as required.

FERTILISING OF TURF AND GARDEN

Landscape Solutions will fertilise on an as required basis. Landscape Solutions has a program of fertilising and generally this will be prior to the growing season using a slow release fertiliser on both garden and lawn areas.

PRUNING

Pruning will be completed as required and generally completed to improve plant shape, create a denser hedging of plants, and train a plant to grow a certain way or increase flower quantity or quality

HERBICIDE AND PESTICIDE USE

Landscape Solutions limits the use of pesticides and herbicides as much as practical. He most commonly used chemical is Glyphosate (Round Up) a non systemic herbicide that kills on contact with the plant leaf, it is a non residual herbicide.

Any pesticides used will be used in a safe and effective manner to minimise any overspray or drift of spray. Landscape Solutions will only use Pesticide spraying when it is necessary to combat a specific pest or disease.

GUYING AND STAKING

Plants are healthier and are generally a better shape if they are not staked. Movement of the trunk at ground level strengthens it and makes it thicken.

Stakes can cause damage in windy conditions through trunk or branch damage. Stakes also force growth upwards at the expense of trunk strength.

Stakes will be used where plants require support only, and will be for the minimum amount of time required.

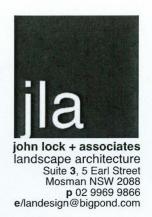
Landscape Solutions also offers a professional ongoing landscape management / maintenance service and would be pleased to discuss the specific maintenance requirements of this project.

Call 8805 6222 and our Maintenance manager will be pleased to look at all your requirement and provide you with a protessional landscape management program.

MAINTENANCE SCHEDULE

PROJECT: ARV Warriewood Stage 5

	T	
TASK	INTERVALS	
INITIAL WATERING	WEEKLY/ AS REQUIRED	
INITIAL WATERING	IRRIGATION SYSTEM INSTALLED	
INITIAL MOWING	AS REQUIRED	
MOW LAWNS	FORTNIGHTLY (SUMMER)	
WOW LAVINS	3 WEEKLY - 4 WEEKLY (WINTER)	
EDGE LAWNS	FORTNIGHTLY (SUMMER)	
EDGE LAWNS	3 WEEKLY -4 WEEKLY (WINTER)	
GARDEN SPRAY	FORTNIGHTLY (SUMMER)	
GARDEN SPRAT	MONTHLY (WINTER)	
GARDEN HAND WEED	FORTNIGHTLY (SUMMER)	
GARDEN HAND WEED	MONTHLY (WINTER)	
FERTILISE LAWNS	EVERY 6 MONTHS	
FERTILISE GARDENS	EVERY 9 MONTHS	
PRUNE PLANTS	EVERY 4 MONTHS/ AS REQUIRED	
PEST AND DISEASE CONTROL	FORTNIGHTLY CHECK	
IRRIGATION SYSTEM	MONTHLY	
GENERAL CHECK		
YEARLY SERVICE	AT COST	
MULCH TOP UP	IF SPECIFIED	
STAKING	AS REQUIRED	
PAVER REPAIR	AS REQUIRED	
TRANSPLANTED TREES	MONITOR FORTNIGHTLY	



15th September 2014

Michael Morin

PBS Building (NSW) Pty Limited Unit 18, 11-21 Underwood Road Homebush NSW 2140

Dear Michael

Re: Landscape Architectural Services
ARV Warriewood Brook Retirement Village
Stages 4-6
6-14 MacPherson Street Warriewood

Thank you for this opportunity to prepare a submission to provide additional landscape design services for the proposed Stages 4-6 of the Warriewood Brook Retirement Village. Based on our previous experience with the project and the preparation of the plans to date, we are in a position to offer you the following submission for your review.

Our submission set out below includes:

- LANDSCAPE CONSULTANT TASKS
- PROFESSIONAL FEES / PERSONNEL

I look forward to discussing any aspects of this proposal with you further and the prospect of an opportunity to work with the project team to realise its goals for the remaining stages, 4-6 of the Warriewood Brook Retirement Village. If you require any additional information please call John Lock on 9969 9866.

Yours sincerely

JOHN LOCK

LANDSCAPE CONSULTANT TASKS

Set out below is our understanding of the scope of works for design and documentation of the landscape which are prepared for review and comment:

1 Construction Documentation

DOCUMENTATIO	ON SCHEDULE	
Dwg #	title	scale
2001 LP 00-07	Cover Sheet	1:500
2001 LP 1.0-07	Landscape Site Plan	1:500
2001 LP 1.1-07	Tree Plan	1:500
2001 LP 1.2-07	Hardscape Plan -sheet 1	1:200
2001 LP 1.3-07	Hardscape Plan -sheet 2	1:200
2001 LP 1.4-07	Hardscape Plan -sheet 3	1:200
2001 LP 1.5-07	Hardscape Plan -sheet 4	1:200
2001 LP 1.6-07	Planting Plan -sheet 1	1:200
2001 LP 1.7-07	Planting Plan -sheet 2	1:200
2001 LP 1.8-07	Planting Plan -sheet 3	1:200
2001 LP 1.9-07	Planting Plan -sheet 4	1:200
2001 LP 2.0-07	Landscape Sections - SHEET 1	
2001 LP 2.1-07	Landscape Sections - SHEET 2	
2001 LP 3.0-07	Landscape Details - FENCES	
2001 LP 3.1-07	Landscape Details - BOWLING GREEN	
2001 LP 3.2-07	Landscape Details	
2001 LP 3.3-07	Landscape Details - DETENTION	
2001 LP 3.4-07	Landscape Details - PLANTING	
2001 LP 3.5-07	Landscape Details - WALLS	
•	LANDSCAPE SPECIFICATION	

2 Construction Administration Stage

Review + Documentation

- Answer tender queries, reviewing schedules as provided in the Landscape Documentation, reviewing tender clarifications,
- · Comments on preferred sub-contractors,
- · Assess Tenders, advise and make recommendations to Project Manager.
- Prepare additional documentation if required to answer Contractor queries.
- Comments on any qualifications and / or proposed alternatives associated with the Landscape Design
- · Review of shop drawings;
- Answering landscape queries;
 - Documentation clarification and answers to Contractor RFI's
 - Additional Documentation for Contractor RFI's

Inspections

- · Inspect pre-ordered plant stock at the appropriate nurseries.
- Periodic site inspections to review quality of installation and compliance with design intent and production of a monthly report on aspects of quality, defects and compliance with design intent;
- · Certification of completion and compliance of various stages of the works.
 - Subgrade / Soil works preparation and installation
 - Planting inspections visits
 - Practical completion
 - Maintenance Inspections

PROFESSIONAL FEES

The following proposed fee summary is calculated on an estimate of the time required to complete those tasks outlined. This outline broken into the nominated stages:

1 Construction Documentation & Administration

\$5,500

- Prepare additional documentation as required to answer Contractor queries.
 - Documentation clarification and answers to Contractor RFI's
 - Additional Documentation for Contractor RFI's
- · Review of shop drawings;
- · Construction Site Inspections & reports
- · Final Certification
- Defects Liability inspections & reports

2 HOURLY RATES

Project Principal \$150 /hr
Landscape Architect \$100 /hr
Drafting \$75 /hr

Note the above fees do not include for GST

INSURANCE

Professional Indemnity:

\$1,000,000

 Thistle Underwriting Services Pty Ltd who act on behalf of Insurer: QBE Insurance (Australia) Limited

Public Liability:

\$5,000,000

 Thistle Underwriting Services Pty Ltd who act on behalf of Insurer: QBE Insurance (Australia) Limited

ADDITIONAL WORK

Additional plan prints and documentation and costs incurred (authorised by the Project Manager) will be charged as a reimbursement. Should you require any further work outside the agreed scope these will be charged at the agreed hourly rates.

We will invoice monthly based on percentage completion of the above project stages. We hope this submission and fee structure is acceptable to you and understand that further discussions may be necessary to establish a firm scope of works and budgetary requirements for the project. We look forward to your review of this proposal.



john lock + associates landscape architecture

p 02 9969 9866 e landesign@bigpond.com

ABN 53 978 384 192

TAX INVOICE

DATE

14th October 2015

TO

PBS Building (NSW) Pty Limited Unit 18, 11-21 Underwood Road

Homebush NSW 2140

ATTENTION

Roi Ciftci

RE

Landscape Architectural Services

ARV Warriewood Brook Retirement Village Stages 4-6

6-14 MacPherson Street Warriewood

CLAIM#

1

INVOICE #

1778

1 AGREED FEE

· Construction Documentation + Administration

\$5,500

2 TASKS THIS CLAIM



60% Construction Documentation + Administration

ијон002

NIL

\$3,300

GST \$330

APPROVED ords "Tax Invoice" orrect Creditor Name / ABN

rrect Tax Code

that Invoice"

at Creditor Name / ABN

ct PBS Name

at PBS Address / ABN

yours faithfully

JOHN LOCK

TOTAL THIS CLAIM

ENTERED

Emma.stafford 26/10/2015 10:56:23 AM

\$3,630

03/11/15

\$3,300.00

AMOUNT INVOICED \$3,630.00 PAYMENT DATE

Bank Details for EFT:

APPROVED BY

RETENTION (INC GST)

VENDOR CODE

BSB. 062 017 **Acc No.** 1001 0423

ila John lock & Associates

Suite 3 · 5 Earl Street Mosman NSW 2088

TOTAL PRE-TAX AMOUNT

Please email remittance to: landesign@bigpond.com

JLA CLAIM TRACKING SCHEDULE

QUOTE	% CLAIM	CLAIM 1	CLAIM 2	CLAIM 3	COST TO COM	IPLETE
\$ 5,500.00	60%	\$ 3,300.00			\$ 2,200.00	



This inspection report is a record of a certified stage inspection or any other inspection carried out, because it was required by the Principal Certifying Authority, in accordance with Clause 162B of the Environmental Planning & Assessment Regulation 2000.

CC No.	:	142440	142440					
DA/ CDC No.	:	N0267/13	N0267/13					
PCA	:	Brendan Benne	ett BPB 002	7				
Site Address	:	6-14 Macphers	6-14 Macpherson St, Warriewood, NSW 2102					
Requested by	:	Roi Ciftci						
Contact No.	:	0407 333 511		Contact email:				
				roi.ciftci@pbsbuilding.com.au				
Inspection Type	:	Prior to pouring	any in-situ	reinforced building element - Units 37 & 40				
	building element and prior to covering wet areas -							
		Units 18, 19, 2	0 & 21					
Date Inspected	:	08/09/15		Time Requested: 5.30pm				
RESULT OF INS	SPE	CTION						
MEGGET OF INC								
Satisfactory				No re-inspection required				
Satisfactory subject to actions			\bowtie	No re-inspection required				
Tanonaoio, y oubj				s mopositori roquirou				
Unsatisfactory/actions required			П	Re-inspection required Yes				
J. Gallola Glory ac		no roquirou	ш					
				No 📙				

Slab - Units 37 & 40

In-situ reinforcement for the slab inspected prior to pouring concrete. The layout is consistent with the CC approved plans.

ACTIONS

- 1. Structural engineer certification must be submitted certifying the structural component of the slab, compliance with the certified plans and relevant Australian Standards applicable to the works.
- 2. Top of all screw piers are to have reo bars inserted as per the engineer's detail.
- 3. Complete all reinforcement, waffle pods and chair spacing to engineer's details.
- 4. All instructions by engineer to be carried out for all units.
- 5. Provide a survey report clearly showing setbacks and levels of subject buildings in accordance with the approved plans.

Wet areas - Units 18, 19, 20 & 21

Wet areas inspected prior to covering. Certification of installation in accordance with AS3740 - 2010 must be submitted to City Plan Services prior the issue of an Occupation Certificate. Installation to be in accordance with the product manufacturer specification.

ACTIONS

1. Windows to bathrooms to be completely sealed and waterproofed.



Signature

: :

:

Inspected by

Clayton Votano

Accreditation No.

BPB 2307

Date

10 September 2015

^{*}This serves as written notification from the contractor for a change in the nominated inspector for this project as required under the contract agreement made under Clause 73A of the Building Professional Act 2005 and Clause 19A of the Building Professionals Regulations 2007.



This inspection report is a record of a certified stage inspection or any other inspection carried out, because it was required by the Principal Certifying Authority, in accordance with Clause 162B of the Environmental Planning & Assessment Regulation 2000.

CC No.	:	142440					
DA/ CDC No.	:	N0267/13	N0267/13				
PCA	:	Brendan Bennett BF	Brendan Bennett BPB 0027				
Site Address	:	6-14 Macpherson St	t, Warriewood, NSW 2102				
Requested by	:	Roi Ciftci					
Contact No.	:	0407 333 511	Contact	email:			
			roi.ciftci@pbsbu	lding.com.au			
Inspection Type	:		in-situ reinforced building ele				
		Prior to pouring any	in-situ building element and	prior to covering wet areas - Unit 35			
Date Inspected	:	24/09/15	Time Requested	5.30pm			

RESULT OF INSPECTION

Satisfactory Satisfactory subject to actions	No re-inspection required No re-inspection required
Unsatisfactory/actions required	Re-inspection required Yes No

Slab - Units 34 & 35

In-situ reinforcement for the slab inspected prior to pouring concrete. The layout is consistent with the CC approved plans.

ACTIONS

- 1. Structural engineer certification must be submitted certifying the structural component of the slab, compliance with the certified plans and relevant Australian Standards applicable to the works.
- 2. Top of all screw piers are to have reo bars inserted as per the engineer's detail.
- 3. Complete all reinforcement, waffle pods and chair spacing to engineer's details.
- 4. All instructions by engineer to be carried out for all units.
- 5. Provide a survey report clearly showing setbacks and levels of subject buildings in accordance with the approved plans.

Signature :

Inspected by : Clayton Votano

Accreditation No. : BPB 2307

Date : 24 September 2015

^{*}This serves as written notification from the contractor for a change in the nominated inspector for this project as required under the contract agreement made under Clause 73A of the Building Professional Act 2005 and Clause 19A of the Building Professionals Regulations 2007.



This inspection report is a record of a certified stage inspection or any other inspection carried out, because it was required by the Principal Certifying Authority, in accordance with Clause 162B of the Environmental Planning & Assessment Regulation 2000.

CC No.	:	142440	
DA/ CDC No.	:	N0267/13	
PCA	:	Brendan Bennett	
Site Address	:	6-14 Macpherson St, War	riewood, NSW 2102
Requested by	:	Roi Ciftci	
Contact No.	:	0407 333 511	Contact email:
			roi.ciftci@pbsbuilding.com.au
Inspection	:	Prior to covering of the fra	mework for any floor, wall, roof or other building element,
Туре		Prior to covering of wet are	reas, slab steel and stormwater
Date Inspected	:	06/10/15 - Units 13, 14,	Time Requested: 06/10/15 - 5.30pm
		21, 22, 23, 36, 41 & 42	12/10/15 - 10.00am
		12/10/15 - Units 1, 10,	
		11, 15, 16, 17 & 46	

RESULT OF INSPECTION

Satisfactory	No re-inspection required
Satisfactory subject to actions	No re-inspection required
Unsatisfactory/actions required	Re-inspection required Yes
	No 🗆

Frame - Units 13 & 14

Timber framing inspected prior to covering.

ACTIONS

- 1. Certification of installation in accordance with AS1684.2 2010 and the frame and truss manufacturer's detail must be submitted to City Plan Services prior the issue of an Occupation Certificate.
- 2. Certification of installation of masonry to be in accordance with AS 4773.1 2010 & AS 3700 2011 must be submitted to City Plan Services prior the issue of an Occupation Certificate.

Wet areas - Units 1, 10 & 11

Wet areas inspected prior to covering. Certification of installation in accordance with AS3740 - 2010 must be submitted to City Plan Services prior the issue of an Occupation Certificate. Installation to be in accordance with the product manufacturer specification.

ACTIONS

1. Window sill and frame to be completely waterproofed unit 10.



Slabs - Units 36, 41, 42 & 46

In-situ reinforcement for the slab inspected prior to pouring concrete.

ACTIONS

- 1. Structural engineer certification must be submitted certifying the structural component of the slab, compliance with the certified plans and relevant Australian Standards applicable to the works.
- 2. Reinforcement to be completed as per engineer detail to the porch unit 46.
- 3. Ensure all termite collars are pushed down and within the slab. Provide certification of all termite control measures.
- 4. All instructions by engineer to be carried out for all units.

Stormwater Units 15, 16, 17, 21, 22 & 23

Stormwater connections (connections to detention pit) inspected prior to covering. Certification from a hydraulic engineer must be submitted to City Plan Services certifying the installation complies with the approved plans, condition E.9 of the development consent and AS/NZS 3500.3-2003.

Signature :

Inspected by : Clayton Votano

Accreditation No. : BPB 2307

Date : 12 October 2015

^{*}This serves as written notification from the contractor for a change in the nominated inspector for this project as required under the contract agreement made under Clause 73A of the Building Professional Act 2005 and Clause 19A of the Building Professionals Regulations 2007.



This inspection report is a record of a certified stage inspection or any other inspection carried out, because it was required by the Principal Certifying Authority, in accordance with Clause 162B of the Environmental Planning & Assessment Regulation 2000.

CC No.	:	142440			
DA/ CDC No.	:	N0267/13			
PCA	:	Brendan Benn	ett		
Site Address	ddress : 6-14 Macpherson St, Warriewood, NSW 2102				
Requested by	:	Roi Ciftci			
Contact No. : 0407 333 511				Contact email:	
				roi.ciftci@pbsbuilding.com.au	
Inspection	:				
Туре	Prior to covering of wet areas and slab steel				
Date Inspected	:	26/10/15		Time Requested: 8.30am	
RESULT OF INS	SPE	ECTION			
0.45.6					
Satisfactory Satisfactory subject to actions			Ш	No re-inspection required	
			No re-inspection required		
Unsatisfactory/ac	tio	ns required		Re-inspection required Yes	
				No \square	

Frame - Units 15, 16 & 17

Timber framing inspected prior to covering.

ACTIONS

- 1. Certification of installation in accordance with AS1684.2 2010 and the frame and truss manufacturer's detail must be submitted to City Plan Services prior the issue of an Occupation Certificate.
- 2. Certification of installation of masonry to be in accordance with AS 4773.1 2010 & AS 3700 2011 must be submitted to City Plan Services prior the issue of an Occupation Certificate.
- 3. Ply brace 1100mm is required to bedroom 2 unit 15.
- 4. Double CT600 under ties are required for girder truss external wall to living/dining and external wall over bathroom for both units 15 & 16.
- 5. Bottom chord bracing is required at maximum 4000mm centres complying with AS 4440-2004 for all units.
- 6. Ensure compliance with all BASIX requirements. Installation certification required upon completion.

Wet areas - Units 12, 13 & 14

Wet areas inspected prior to covering. Certification of installation in accordance with AS3740 - 2010 must be submitted to City Plan Services prior the issue of an Occupation Certificate. Installation to be in accordance with the product manufacturer specification.



Slabs - Unit 38 & 39

In-situ reinforcement for the slab inspected prior to pouring concrete.

ACTIONS

- 1. Structural engineer certification must be submitted certifying the structural component of the slab, compliance with the certified plans and relevant Australian Standards applicable to the works.
- 2. Ensure all termite collars are pushed down and within the slab. Provide certification of all termite control measures.
- 3. All instructions by engineer to be carried out for all units.
- 4. Provide a survey report clearly showing setbacks and levels of subject buildings in accordance with the approved plans.

ignature

Signature :

Inspected by : Clayton Votano

Accreditation No. : BPB 2307

Date : 26 October 2015

^{*}This serves as written notification from the contractor for a change in the nominated inspector for this project as required under the contract agreement made under Clause 73A of the Building Professional Act 2005 and Clause 19A of the Building Professionals Regulations 2007.



This inspection report is a record of a certified stage inspection or any other inspection carried out, because it was required by the Principal Certifying Authority, in accordance with Clause 162B of the Environmental Planning & Assessment Regulation 2000.

CC No.	:	142440						
DA/ CDC No.	:	N0267/13	NO267/13					
PCA	:	Brendan Benr	nett					
Site Address	:	6-14 Macpher	-14 Macpherson St, Warriewood, NSW 2102					
Requested by	:	Roi Ciftci						
Contact No.	:	0407 333 511		Contact email:				
				roi.ciftci@pbsbuilding.com.au				
Inspection	:	Prior to coveri	Prior to covering of the framework for any floor, wall, roof or other building element,					
Type		Prior to coveri	Prior to covering of wet areas and slab steel					
Date Inspected	:			Time Requested:				
		05/11/15						
RESULT OF INS	SPE	ECTION						
Satisfactory			П	No re-inspection required				
Satisfactory								
Satisfactory subj	ect	to actions	\bowtie	No re-inspection required				
Unsatisfactory/actions required				Re-inspection required Yes ☐ No ☐				

Frame - Units 34, 37 & 40

Timber framing inspected prior to covering.

ACTIONS

- 1. Certification of installation in accordance with AS1684.2 2010 and the frame and truss manufacturer's detail must be submitted to City Plan Services prior the issue of an Occupation Certificate.
- 2. Certification of installation of masonry to be in accordance with AS 4773.1 2010 & AS 3700 2011 must be submitted to City Plan Services prior the issue of an Occupation Certificate.
- 3. Bottom chord bracing is required at maximum 4000mm centres complying with AS 4440-2004 for all units.
- 4. Ensure compliance with all BASIX requirements. Installation certification required upon completion.

Wet areas - Units 15, 16 & 17

Wet areas inspected prior to covering. Certification of installation in accordance with AS3740 - 2010 must be submitted to City Plan Services prior the issue of an Occupation Certificate. Installation to be in accordance with the product manufacturer specification.



Slabs - Units 47 & 48

In-situ reinforcement for the slab inspected prior to pouring concrete.

ACTIONS

- 1. Structural engineer certification must be submitted certifying the structural component of the slab, compliance with the certified plans and relevant Australian Standards applicable to the works.
- 2. Ensure all termite collars are pushed down and within the slab. Provide certification of all termite control measures.
- 3. All instructions by engineer to be carried out for all units.
- 4. Provide a survey report clearly showing setbacks and levels of subject buildings in accordance with the approved plans.

cul

Signature

Inspected by : Clayton Votano

Accreditation No. : BPB 2307

Date : 11 November 2015

^{*}This serves as written notification from the contractor for a change in the nominated inspector for this project as required under the contract agreement made under Clause 73A of the Building Professional Act 2005 and Clause 19A of the Building Professionals Regulations 2007.



This inspection report is a record of a certified stage inspection or any other inspection carried out, because it was required by the Principal Certifying Authority, in accordance with Clause 162B of the Environmental Planning & Assessment Regulation 2000.

CC No. : 142440		142440		
DA/ CDC No.	:	N0267/13		
PCA	:	Brendan Benn	ett	
Site Address	:	6-14 Macphers	son St, Wa	arriewood, NSW 2102
Requested by				
Contact No.	:	0407 333 511		Contact email:
				roi.ciftci@pbsbuilding.com.au
Inspection	:	Prior to covering	ng of the fr	ramework
Туре				
Date Inspected	:	20/11/15 Time Requested:		
RESULT OF INS	SPE	CTION		
Satisfactory			П	No re-inspection required
Satisfactory subject to actions		to actions	\boxtimes	No re-inspection required
outisiactory subject to actions				no to mopositori required
Unsatisfactory/actions required			П	Re-inspection required Yes
onoanonotor y/aonono required		Ш		
				No L

Frame - Units 35, 42 & 45

Timber framing inspected prior to covering.

ACTIONS

- Certification of installation in accordance with AS1684.2 2010 and the frame and truss manufacturer's detail
 must be submitted to City Plan Services prior the issue of an Occupation Certificate.
- 2. Certification of installation of masonry to be in accordance with AS 4773.1 2010 & AS 3700 2011 must be submitted to City Plan Services prior the issue of an Occupation Certificate.
- 3. Triple grips required for unit 42 first truss bottom chord over carport.
- 4. Shear blocks are required for all internal bracing walls for units 42 & 45.
- 5. B-Type bracing is required for unit 45 in bedroom 1.
- 6. All items are to be addressed and rectified with evidence of completion.

Signature :

Inspected by : Clayton Votano

Accreditation No. : BPB 2307

Date : 24 November 2015

^{*}This serves as written notification from the contractor for a change in the nominated inspector for this project as required under the contract agreement made under Clause 73A of the Building Professional Act 2005 and Clause 19A of the Building Professionals Regulations 2007.



This inspection report is a record of a certified stage inspection or any other inspection carried out, because it was required by the Principal Certifying Authority, in accordance with Clause 162B of the Environmental Planning & Assessment Regulation 2000.

CC No.	:	142440			
DA/ CDC No.	:	N0267/13	N0267/13		
PCA	:	Brendan Benn	Brendan Bennett BPB 0027		
Site Address	:	6-14 Macpher	6-14 Macpherson St, Warriewood, NSW 2102		
Requested by	:	Roi Ciftci			
Contact No.	:	0407 333 511		Contact email:	
				roi.ciftci@pbsbuilding.com.au	
Inspection	:	Prior to cover	Prior to covering waterproofing of wet areas and prior to covering any stormwater		
Туре		drainage conr	nections		
Date Inspected	:	12/11/15 & 24	1/11/15	Time Requested:	
RESULT OF INS	SPE	ECTION			
Satisfactory				No re-inspection required	
Satisfactory subject to actions			$\overline{\boxtimes}$	No re-inspection required	
canonactory subj	301	to dollono			
Unsatisfactory/actions required			П	Re-inspection required Yes	
Ulisatistactor yrac	CLIO	iis required		ive-insheorion reduited 169	

Wet areas - Units 34, 35, 37 & 40

Wet areas inspected prior to covering. Certification of installation in accordance with AS3740 - 2010 must be submitted to City Plan Services prior the issue of an Occupation Certificate. Installation to be in accordance with the product manufacturer specification.

ACTIONS

- 1. Windows to wet areas to be fully sealed.
- 2. Waterstops are required to all wet area doorways.

Stormwater - Units 13 & 14

Stormwater connections (connections to detention pit) inspected prior to covering. Certification (hydraulic engineer where required by the development consent or licensed plumber) must be submitted to City Plan Services certifying the installation complies with the approved plans, relevant conditions of the development consent and AS3500.3-2003.



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:

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Signature

al

Inspected by

Clayton Votano

Accreditation No.

BPB 2307

Date

24 November 2015

^{*}This serves as written notification from the contractor for a change in the nominated inspector for this project as required under the contract agreement made under Clause 73A of the Building Professional Act 2005 and Clause 19A of the Building Professionals Regulations 2007.



This inspection report is a record of a certified stage inspection or any other inspection carried out, because it was required by the Principal Certifying Authority, in accordance with Clause 162B of the Environmental Planning & Assessment Regulation 2000.

CC No.	:	142440				
DA/ CDC No.	:	N0267/13				
PCA	:	Brendan Bennett	Brendan Bennett			
Site Address	:	6-14 Macpherson S	6-14 Macpherson St, Warriewood, NSW 2102			
Requested by	:	Roi Ciftci				
Contact No.	:	0407 333 511	Contact email:			
			roi.ciftci@pbsbuilding.com.au			
Inspection	:	Prior to covering of the framework for any floor, wall, roof or other building element,				
Туре		after the excavation of footings and prior to pouring reinforced concrete.				
Date Inspected	:	17/11/15	Time Requested:			

RESULT OF INSPECTION

Satisfactory Satisfactory subject to actions	No re-inspection required No re-inspection required
Unsatisfactory/actions required	Re-inspection required Yes No

Frame - Units 36, 38 & 39

Timber framing inspected prior to covering.

ACTIONS

- 1. Certification of installation in accordance with AS1684.2 2010 and the frame and truss manufacturer's detail must be submitted to City Plan Services prior the issue of an Occupation Certificate.
- 2. Certification of installation of masonry to be in accordance with AS 4773.1 2010 & AS 3700 2011 must be submitted to City Plan Services prior the issue of an Occupation Certificate.
- 3. Multigrips are required to be installed to the bottom chord of the first truss at the carport for all units.
- 4. Multigrips required to the top of the girder truss over carport for units 38 & 39.
- 5. Ensure compliance with all BASIX requirements. Installation certification required upon completion.

Slabs - Units 53 & 54

Piers - Units 55, 56, 57, 58 & 59

In-situ reinforcement for the slab inspected prior to pouring concrete.

ACTIONS

- 1. Structural engineer certification must be submitted certifying the structural component of the slab, compliance with the certified plans and relevant Australian Standards applicable to the works.
- 2. Structural engineer certification must be submitted certifying the structural component of the piers, compliance with the certified plans and relevant Australian Standards applicable to the works.
- 3. All new and amended screw pier locations are to be inspected and certified by engineer



4. All instructions by engineer to be carried out for all units.

Signature :

Oignature

Inspected by : Clayton Votano

Accreditation No. : BPB 2307

Date : 21 December 2015

^{*}This serves as written notification from the contractor for a change in the nominated inspector for this project as required under the contract agreement made under Clause 73A of the Building Professional Act 2005 and Clause 19A of the Building Professionals Regulations 2007.



This inspection report is a record of a certified stage inspection or any other inspection carried out, because it was required by the Principal Certifying Authority, in accordance with Clause 162B of the Environmental Planning & Assessment Regulation 2000.

CC No.	:	142440	Name of the last		
DA/ CDC No.	:	N0267/13			
PCA		Brendan Benn	ett,		
		BPB0027			
Site Address		6-14 Macpher	son St, Warr	iewood	
Requested by	:	Roi Ciftci			
Contact No.		0407 333 511		Contact email:	
				roi.ciftci@pbsbuilding.com.au	
Inspection Type : Prior to cov			ng any storm	water drainage connections	
		ILU 34, 35, 36	, 37, 38, 39		
Date Inspected	:	22 January 20	16	Time Requested:	
RESULT OF INS	SPE	CTION			
Satisfactory			\boxtimes	No re-inspection require	d
Satisfactory subject to actions				No re-inspection require	d
Unsatisfactory/actions required				Re-inspection required	Yes 🗌 No 🗌

Stormwater connections (connections to detention pit) inspected prior to covering. Certification (hydraulic engineer where required by the development consent or licensed plumber) must be submitted to City Plan Services certifying the installation complies with the approved plans, relevant conditions of the development consent and AS3500.3-2003.

Signature :

Inspected by* : Brendan Bennett

Accreditation No. : BPB0027

Date : 11 January 2016

LEVEL 1, 364 KENT ST, SYDNEY NSW 2000 TEL +61 2 8270 3500 FAX +61 2 8270 3501 WWW.CITYPLAN.COM.AU

CITY PLAN SERVICES P/L ABN 30 075 223 353

^{*}This serves as written notification from the contractor for a change in the nominated inspector for this project as required under the contract agreement made under Clause 73A of the Building Professional Act 2005 and Clause 19A of the Building Professional Regulations 2007



This inspection report is a record of a certified stage inspection or any other inspection carried out, because it was required by the Principal Certifying Authority, in accordance with Clause 162B of the Environmental Planning & Assessment Regulation 2000.

CC No.	:	142440			
DA/ CDC No.	:	N0267/13			
PCA	:	Brendan Benr	nett BPB 0027	7	
Site Address	:	6-14 Macpher	son St, Warri	ewood, NSW 2102	
Requested by	:	Roi Ciftci			
Contact No.	:	0407 333 511		Contact email:	
				roi.ciftci@pbsbuilding.com.au	
Inspection	:	Prior to coveri	ing waterproo	fing of wet areas	
Type					
Date Inspected	:	13.01.16		Time Requested:	
RESULT OF IN	SPE	ECTION			
Satisfactory				No re-inspection required	
Satisfactory subj	ect	to actions	\boxtimes	No re-inspection required	
Unsatisfactory/a	ctio	ns required		Re-inspection required Yes No	

Wet areas - Units 36, 38 & 39

Wet areas inspected prior to covering. Certification of installation in accordance with AS3740 - 2010 must be submitted to City Plan Services prior the issue of an Occupation Certificate. Installation to be in accordance with the product manufacturer specification.

ACTIONS

- 1. Windows to wet areas to be fully sealed.
- 2. Waterstops are required to all wet area doorways.

Signature

Inspected by : Gary Pavlou

Accreditation No. : BPB

Date : 13 January 2016

^{*}This serves as written notification from the contractor for a change in the nominated inspector for this project as required under the contract agreement made under Clause 73A of the Building Professional Act 2005 and Clause 19A of the Building Professionals Regulations 2007.



This inspection report is a record of a certified stage inspection or any other inspection carried out, because it was required by the Principal Certifying Authority, in accordance with Clause 162B of the Environmental Planning & Assessment Regulation 2000.

CC No.	:	142440/1
DA No.	:	N0267/13, N0267/13/S96/1, N0267/13/S96/2 & N0267/13/S96/3
PCA	:	Brendan Bennett, BPB0027
Site Address	:	6-14 Macpherson Street, Warriewood NSW 2102
Requested by	:	
Contact No.	:	Contact email:
Inspection Type	:	After the building work has been completed & prior to any occupation certificate being issued in relation to the building.
Date Inspected		1 February 2017 Time Requested:

RESULT OF INSPECTION

Satisfactory	No re-inspection require	d
Satisfactory subject to actions	No re-inspection require	d
Unsatisfactory/actions required	Re-inspection required	Yes 🗌 No 🔲

Works have been completed in accordance with the Construction Certificate and are considered satisfactory.

Signature :

Inspected by* : Brendan Bennett

Accreditation No. : BPB0027

Date : 1 February 2017

SUITE 6.02, 120 SUSSEX ST, SYDNEY NSW 2000 TEL +61 2 8270 3500 FAX +61 2 8270 3501 WWW.CITYPLAN.COM.AU

^{*}This serves as written notification from the contractor for a change in the nominated inspector for this project as required under the contract agreement made under Clause 73A of the Building Professional Act 2005 and Clause 19A of the Building Professional Regulations 2007

SILVERWRAP BREATH

MEDIUM DUTY

REFLECTIVE INSULATION WALL WRAP



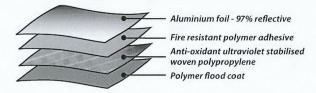
Product Code: MD-B | I/N: 0810105

SILVER WR A PTM BREATHER is a Medium Duty semi-permeable membrane and vapour retarder, designed to reduce the risk of interstitial condensation in building systems. Classified as Low Vapour Barrier, a dense pattern of micro-perforations allows water vapour to escape from the wall structure while restricting the ingress of liquid water. SILVER $WRAP_{TM}$ BREATHER is ideal for use in double brick and brick veneer wall systems.

- ✓ 97% Reflective
- ✓ High strength, light weight
- ✓ Low flammability
- ✓ Low Vapour Barrier

Construction

SILVER WRAPTM BREATHER is a flexible four layer product made with a combination of antioxidant ultra-violet stabilised woven polypropylene, 97% reflective aluminium foil, and fire-resistant polymer adhesive. A dense pattern of micro-perforations enables SILVER WR A PTM BREATHER to achieve Low Vapour Barrier classification, while restricting the passage of water under low pressure.



Ametalin utilises Advanced Laminating Technology; the polymer adhesive remains tacky for an indefinite period and provides superior resistance to heat, fire and delamination.

NOTE: SILVER W R A P™ BREATHER is not classified as a High Water Barrier under AS/NZS 4200.1:1994 Pliable building membranes and underlays, Part 1: Materials, which requires testing under a 100 mm water column.

Application

SILVER $WRAP_{TM}$ BREATHER is designed for use as a breather wall wrap and vapour retarder in residential, commercial and office buildings in all regions of Australia.

NOTE: Low Vapour Barrier wall wraps are suitable for temperate climate zones. Durability may be affected by environmental factors, including chemical and airborne pollutants, if used in industrial or farm buildings.

Tear Resistance

SILVER WR A PTM BREATHER is an extremely lightweight product with superior tear resistance. SILVER W R A PTM BREATHER is guaranteed to meet or exceed the minimum performance levels for Medium Duty rating required under AS/NZS 4200.1:1994.

	Minimum Value*	Actual Test Value
Machine direction edge tear resistance	65 N	343 N / 25 mm
Lateral direction edge tear resistance	65 N	482 N / 25 mm

* Minimum value required to qualify as Medium Duty under AS/NZS 4200.1:1994.

DECLARED TOTAL SYSTEM R-VALUES

The contribution of this product to the total R-value depends on installation and environmental conditions. The R-value will be reduced in the event of the accumulation of dust on upward facing surfaces and in those cavities that are ventilated

BRICK VENEER

with one layer of SILVER $WRAP_{TM}$ BREATHER

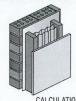


CALCULATION REF: 299r3221

R. 1.3 SUMMER R. 1.2 WINTER

BRICK VENEER

with one layer of SILVER $WRAP_{TM}$ BREATHER + two layers of PLEATED SILVERBATTSTM



CALCULATION REF: 299w3225b

R.3.4 SUMMER R.3.0 WINTER

BRICK VENEER

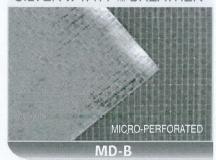
with one layer of SILVER W R A P_{TM} BREATHER + R2.5 Fibrous Batt



CALCULATION REF: 299w50

WINTER R. 3.2 SUMMER R. 3.0

SILVER WRAPTM BREATHER





SILVERWRAP BREATHER

MEDIUM DUTY
REFLECTIVE INSULATION WALL WRAP

Classification

SILVER W R A PTM BREATHER classifications in accordance with AS/NZS 4200.1:1994

PRODUCT		SILVER WRAP TM BREATHER	AS/NZS 4200.1:1994
FI AMMARII ITY INDFX	AS 1530.2-1993	Low	Low ≤ 5
DUTY	AS/NZS 4200.1:1994	Medium	Classification
EMITTANCE	AS/NZS 4201.5:1994	0.03	Value
REFLECTIVITY		97%	Value
RESISTANCE TO WATER PENETRATION	AS/NZS 4201.4:1994	Unclassified	Classified
VAPOUR BARRIER	ASTM E96	Low, PROCEDURE B, WET CUP TEST	Classification
MACHINE DIRECTION TENSILE STRENGTH	AS 1301.448s-91	11.3 kN/m	Min 9.5 kN/m
LATERAL DIRECTION TENSILE STRENGTH	AS 1301.448s-91	8.9 kN/m	Min 6.0 kN/m
MACHINE DIRECTION EDGE TEAR	TAPPI T 470 om-89	343 N	Min 65 N
LATERAL DIRECTION EDGE TEAR	TAPPI T 470 om-89	482 N	Min 65 N
RESISTANCE TO DRY DELAMINATION	AS/NZS 4201.1:1994	Pass	Pass
RESISTANCE TO WET DELAMINATION	AS/NZS 4201.2:1994	Pass	Pass
SHRINKAGE	AS/NZS 4201.3:1994	0.0%	< 0.5%

WATER VAPOUR TRANSMISSION RATE: 41.8 g/m²·24hr (23°C, 50% RH)

AMETALIN CLASSIFICATION: LOW VAPOUR BARRIER VAPOUR RETARDER / SEMI-PERMEABLE MEMBRANE

Vapour Barrier Properties

SILVER $WRAP_{TM}$ BREATHER has a Water Vapour Transmission (WVT) rate of 41.8 grams per square metre per 24 hours tested at 23°C, 50% Relative Humidity (RH). Vapour Resistance 2.95 MN•s/g.

Ametalin classification is vapour retarder/semi-permeable membrane. Vapour retarders/semi-permeable membranes can be specified for use under linings in buildings in temperate climate zones south of the Tropic of Capricorn (NCC/BCA Climate Zones 2 - 6*).

A detailed hygrothermal analysis is recommended for moisture control in building design.

NCC/BCA Compliant

SILVER W R A $P_{\rm TM}$ BREATHER complies with AS/NZS 4859.1:2002/Amdt 1:2006 and AS/NZS 4200.1:1994, and therefore meets all the requirements of the National Construction Code and Building Code of Australia for insulation and pliable building membranes.

BUSHFIRE ATTACK LEVELS

SILVER $WRAP_{TM}$ BREATHER complies with AS 3959-2009 Construction of buildings in bushfire-prone areas for use in wall systems BAL – LOW to BAL – FZ.

Total System R-values

R-values apply to typical conditions for mainland Australian capital cities and have been calculated by an independent consulting engineer in accordance with AS/NZS 4859.1:2002/Amdt 1:2006. For detailed design of building systems, seek advice based on actual site conditions from a qualified licensed engineer.

Reflectivity

SILVER $WRAP_{TM}$ BREATHER is made with aluminium foil laminates with reflectivity of 97% and emissivity of 0.03 in compliance with ASTM Standard E 408-71 (Re-approved 2002).

Storage

This product should be stored under cover in a clean, dry place in the pack provided.

Dimensions

SILVER $WRAP_{TM}$ BREATHER is sold in sizes: 1350 mm x 60 m (81 m²) 1350 mm x 30 m (40 m²)

Specification Notes

When specifying, state the following:

Product Name: SILVERWRAP™ BREATHER Medium Duty

The insulation to be installed shall be SILVERWRAP™ BREATHER Medium Duty micro-perforated single-sided reflective laminate, emittance bright side 0.03. Product is manufactured by Ametalin and shall be installed in accordance with AS/NZS 4200.2: 1994 Pliable Building Membranes and Underlays, Part 2: Installation Requirements.

Emittance Bright Side: 0.03

Water Vapour Transmission (WVT): 41.8 g/m²•24hr

Vapour Resistance: 2.95 MN-s/g Vapour Barrier Classification: Low

Water Barrier Classification: Unclassified

Duty: Medium in accordance with AS/NZS 4200.1:1994

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AUSTRALIAN MADE, AUSTRALIAN OWNED.

AMETALIN

41-43 Birralee Road Regency Park SA 5010

T: +61 8 8347 0941 F: +61 8 8347 0915 E: info@ametalin.com W: ametalin.com Manufacturers of building membranes | insulation products | flexible packaging





MEDIUM DUTY
REFLECTIVE INSULATION WALL WRAP

Health and Safety Information

Ametalin has assessed SILVER W R A P_{TM} BREATHER according to the criteria outlined in the National Occupational Health and Safety Commission (NOHSC):1008 (1998) and NOHSC: 1005 (1999). As a result of the assessment, this product is classified as non-hazardous according to the NOHSC criteria. To reduce risk of UV damage when installing this product, wear protective clothing, safety glasses and sunscreen, and work in the shade wherever practical.

Installation

ELECTRICAL SAFETY PRECAUTIONS - BEFORE YOU START:

Ametalin stresses the importance of safe installation practices for foil-based insulation as critical to installer and consumer safety. Aluminium Foil Insulation Association Inc. (AFIA) has prepared Work Method Statements and Hazard Management forms to assist contractors and installers in safe installation of reflective insulation products. These documents are available under 2009 AFIA WMS & Hazard Management, at www.afia.com.au/news/health-and-safety/.

SILVER W R A P_{TM} BREATHER should be installed in accordance with AS/NZS 4200.2: 1994 Pliable Building Membranes and Underlays, Part 2: Installation Requirements.

GENERAL

SILVER $WRAP_{TM}$ BREATHER is not designed to withstand prolonged direct exposure to the elements. Accordingly, the outer construction envelope should be installed without delay. Aluminium foil should not come into contact with wet concrete or mortar, as the aluminium is susceptible to alkali corrosion. If installed within 500 metres of the sea, or in a non-residential building where foil surfaces may be exposed to a corrosive atmosphere (including agricultural sheds), foil surfaces should face an enclosed, un-vented air space. To ensure optimum thermal insulation performance, as well as satisfactory durability, a 25 mm air space adjacent to the foil side of the product is recommended.

TIMBER & STEEL FRAMED CONSTRUCTION:

- TYPICAL BRICK VENEER
- REVERSE BRICK VENEER
- LIGHT WEIGHT CLADDING DIRECT TO STUD
- LIGHT WEIGHT CLADDING ON BATTENS

SILVER $WRAP_{TM}$ BREATHER should be installed horizontally as a continuous membrane by fixing to all framing members with the blue side facing out. SILVER $WRAP_{TM}$ BREATHER should extend from the top plate to the bottom plate on concrete slabs or bearers in timber construction. Fixings are to be no more than 450 mm apart and should be galvanised clouts or staples for fastening to timber construction and tech screws for fastening to steel constructions. In high wind areas, it is recommended to install using flat punched multi-point fasteners or cap screws. Horizontal, vertical and end overlaps must be 150 mm if not taped or 50 mm taped with Ametalin Insulation/Ducting Tape, with all top layers overlapping the outside of lower layers to prevent water ingress. Stagger any vertical overlaps. Any damage made to SILVER $WRAP_{TM}$ BREATHER during installation including holes and tears must be repaired. Ensure window and door openings are cut neatly and carefully and are properly fitted at flashing points. SILVER $WRAP_{TM}$ BREATHER shall be cut back from any hot flue to avoid being a fire hazard. This can be achieved by a clear space of at least 50 mm, or as recommended by the manufacturer of the flue and approved by the local authority.

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AUSTRALIAN MADE, AUSTRALIAN OWNED. AMETALIN

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Manufacturers of building membranes | insulation products | flexible packaging





The Sustainable Alternative

Technical Sheet

Page 1

General Properties of ModWood

Compliance with International Standards

A range of ModWood products has been exhaustively tested to the US Standard ICC-ES™ AC174 and found to be suitable for all US applications without restriction, provided installation guidelines are followed.

Moisture absorption (full submersion)

Duration	Solid boards
24 hours	<1%
7 days	<1%
3 months	5 - 7%

Note: While ModWood may be exposed to weather without concern - it is not suitable for continuous immersion in water or damp soil.

Thermal expansion 0.000015 mm/mm/deg C

A 5400mm board will expand and contract approximately 3mm in a 40 degree temperature variation. Therefore ModWood should not be fixed at or near its maximum temperature (and expansion) for the geographical area where it is installed. On hot days, store ModWood in the shade until fixing - or fix in the cooler morning or evening. Warm ModWood expands to the same degree in length and width, unlike timber which expands more across grain than along grain. The recommended end gaps must be observed when installing ModWood.

Termite resistance ModWood has been tested by CSIRO and found to have a high degree of resistance to attack by two of Australia's most important species of subterranean termites, *Mastotermes darwiniensis* and *Coptotermes acinaciformis*. Compared with untreated hardwoods and softwoods, ModWood is dramatically more resistant against termite attack.

Density 1.15 kg/litre approximately

Board Weights

Product	Dimensions (mm x mm)	Weight per LM (kg/LM)	Standard Length* (m)	Board Weight (kg)
Mini Board (solid)	68 x 17	1.3	4.8	6.4
Deck Board (solid)	88 x 23	2.3	5.4	12.6
Wide Deck Board (solid)	137 x 23	3.6	5.4	19.6
Marina Board (solid)	137 x 32	5.1	4.2	21.2
Super Marina (solid)	137 x 35	5.5	3.6	19.8

^{*}Note: Longer or shorter boards are available to special order. Handling arrangements onsite need to be appropriate to the heavier boards

Surface hardness 95 (Shore D)

This hardness score is better than softwoods and is typical of Wood Plastic Composites. To avoid scratching ModWood with products such as outdoor furniture, soft feet on furniture should always be used.

Slip resistance

Slip resistance testing by CSIRO Tested to AS/NZS 4586:2004

No.	Eample	Wet Pendulum Class	Oil-Wet Ramp Class
1	ModWood Deck	Υ	R10
2	ModWood Wide and Marina	Υ	R11
3	Oiled Timber	Υ	R10
4	Painted Timber	Υ	R10

Note: Sample 3 was coated with natural decking oil, merbau tint with a brush. Sample 4 was coated with decking paint, applied with a mini roller.

PTO

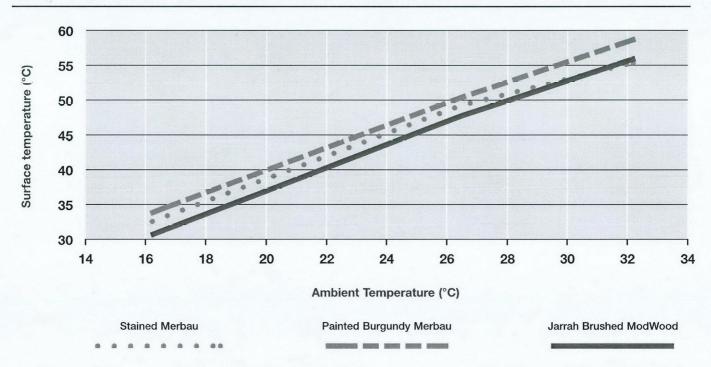


The Sustainable Alternative

Technical Sheet

Page 2

Surface Temperature Comparison - ModWood versus stained and painted Merbau in full sun.



Burning Characteristics and Bushfire Resistance

Burning Ch	aracteristics -	tested by	AWTA	AS/NZS	1530.3 - 1999	
-------------------	-----------------	-----------	------	--------	---------------	--

	Flame Shield®
Ignitability Index	13
Spread of flame Index	5
Smoke developed Index	4
Heat evolved Index	4

Bushfire Resistance - tested by Exova Warringtonfire AUS to AS 1530.8.1

AS 1530.8.1 BAL-A40 Rating

ModWood Flame Shield® is rated to BAL-40 and, when installed as per Installation Instructions, is a system complying to AS1530.8.1 for AS3959-2009 Section 8: Construction for Bushfire Attack Level 40 (BAL-40).

PTO



The Sustainable Alternative

Technical Sheet

Page 3

Properties of ModWood Boards

(Warning: This data is specific to the ModWood range of products and must not be used for designing with competitor WPC or 'plastic lumber' products - these usually show significantly inferior mechanical properties).

The Table shows averages based on Laboratory Test results (at 23°C) from routine manufacturing quality assurance:

Dimensions	Unit	Mini Board	Deck Board	Wide Deck	Wide Deck Flame Shield®	Marina Board	Super Marina Board
Width	mm	68	88.3	137	137	137	137
Thickness	mm	17	23	23	23	32	35
Standard Length	mm	4800	5400	5400	5400	4200	3600
Board Weight	kg	6.4	12.6	19.6	19.6	21.2	19.8
Mechanical Properties							
Test Method (Instron Extensometer)		ASTM D790a	ASTM D6109	ASTM D6109	ASTM D6109	ASTM D6109	ASTM D6109)
Sample simply supported		3-Point Bend	4-Point Bend	4-Point Bend	4-Point Bend	4-Point Bend	4-Point Bend
Test Span (l)	mm	280	450	450	450	600	600
MOR	MPa	36.0	36.0	36.0	36.0	36.0	36.0
MOE (Youngs Modulus)	MPa	4500	5430	5150	5150	5500	5500

Designing with ModWood

As a manufactured product, ModWood is much less variable than timber, being free of knots, cracks, grain and other sources of variation. It is also far more durable than untreated timber.

Unlike timber – which in engineering terms is a fibre-reinforced foam - ModWood is a solid product. It therefore requires pre-drilling to take nailing or screwing and is more sensitive to crush damage near edges and ends. Please follow the installation advice when using ModWood. Compared with natural timber, ModWood is strong in shear and shear-failure mechanisms that often limit design in natural timber do not apply to ModWood.

ModWood is highly durable and mechanical properties were found to be 90% retained in severe accelerated weathering tests that destroyed both hardwood and softwood natural timber product samples.

The failure mechanisms of interest to the designer are:

- Overload in bending the long-term Failure Bending Moment can be estimated to be 90% of that obtained in the Test Results above. A
 Factor Safety of 4 is recommended.
- · Acceptable deflection under load is a question for the designer. As a guide, Deflection should not exceed Span/150.
- Tear out from fixings decking and screening boards are subject to expansion & contraction it is critical to follow the fixing instructions.

Overhangs

The cantilevered or 'overhung' section of a ModWood board should never exceed 50% of the width of the board. This avoids the load-to-failure on the overhung section falling below the load-to-failure on the supported span. Some overhang may be useful to achieve other design objectives and to avoid additional supports in stairs and walkways.

Creep Factor 4.0

This factor has been measured by long-term loading tests in our Laboratory and is similar to reported data for other WPC products and green timber. A factor of 4.0 means that the long-term deflection from a significant point load (Concentrated Action) can be up to 4 times the short-term deflection. If you would like to have heavy items on your deck – such as planter boxes – then the loads are best located over the joists and substructure rather than applied mid-span to the boards.

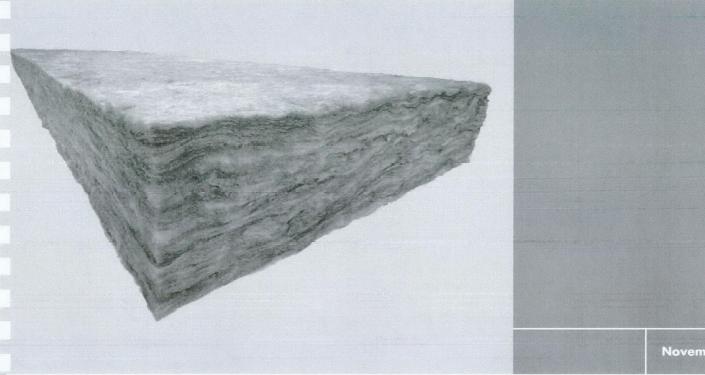
Durability

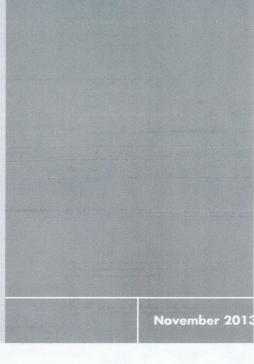
ModWood product has been tested for over 7000 hours in an accelerated Weatherometer laboratory machine, with a cycle of intense UV radiation and high humidity, simulating over 15 years of outdoor weathering. Mechanical strength and stiffness properties were 90% retained – a far better performance than treated softwood and hardwood decking samples under the same test – these cracked and broke up to such an extent that mechanical properties could not be tested.

Workability

ModWood is kind to tools being easy-cutting. Keep tools sharp and use light cuts with minimal force to achieve a good finish.







Earthwool Wall and Ceiling Batts

Description

Knauf Insulation's Earthwool® Wall and Ceiling Batts are made from highly resilient, inorganic glass fibres bonded by ECOSE® Technology, a revolutionary new binder based on rapidly renewable bio-based materials rather than non-renewable petroleum-based chemicals. ECOSE Technology reduces Knauf Insulation binder embodied energy and contains no phenol, formaldehyde, acrylics or artificial colours found in traditional glasswool insulation.

Application

Earthwool Wall and Ceiling Batts provide a cost-effective thermal and acoustical barrier for energy-efficient construction. The batts' consistent quality, low dust, and clean-cutting resilient wool makes installation fast. Earthwool Wall and Ceiling Batts can be used in timber frame applications in residential and commercial structures. Knauf Insulation offers Earthwool Wall and Ceiling Batts in a wide range of sizes.

Performance

Thermal Conductivity

ASTM C 518 and AS/NZS 4859.1: 2002

Thermal Resistance

ASTM C 653 and AS/NZS 4859.1: 2002

Technical Data

Water Vapour Absorption (ASTM C 1104)

Less than 5% by weight.

Corrosion Resistance (ASTM C 665)

• No greater than sterile cotton.

Microbial Growth (ASTM C 1338)

Does not support microbial growth.

Fire Resistance (ASTM E 136)

Non-combustible.









Earthwool Wall and Ceiling Batts

Specification Compliance

AS/NZS 4859.1: 2002 Materials used in the Thermal Insulation of Buildings and comply with the Building Code of Australia (BCA) requirements.

Bio-solubility

Glasswool insulation fibres have been tested in laboratory studies according to EC protocols ECB/TM27 REV. 7, 1998 and shown to be bio-soluable. KNS3 fibres comply with the short term biopersistence test and fulfill the requirements of Australian and international authorities on biosolubility. Earthwool® products are BRANZ appraised.

Features and Benefits

Proven Performance

- Preferred by professional installers concerned with quality, appearance and productivity.
- Excellent acoustical properties reduce sound transmission in the home when properly installed.

Durability

• Earthwool Wall and Ceiling Batts are odourless, rot proof, non-hygroscopic, does not sustain vermin and will not encourage the growth of fungi, mould or bacteria.

Superior Handling

- Highly resilient insulation recovers quickly to full thickness for a snug fit and superior finished aesthetics.
- Consistent quality materials feel good, cut easily and install fast.
- · Low dust for easier handling and increased productivity.

Convenient Packaging, Easier Handling

- Earthwool Wall and Ceiling Batts are packaged in a strong, white poly bag that
 offers excellent protection from abuse, dust and moisture.
- Earthwool Wall and Ceiling Batt packages feature easy to follow installation instructions.
- Master bag insulation units (containing multiple packs) ensure reduced handling costs
 with improved compression more square metres per bag, more square metres per
 truck load, fewer trips to the job site and less warehouse space for storage.

Superior Service and Support

- Knauf Insulation is totally focused on providing first class customer service, producing high quality product and 'on time in full' deliveries.
- Knauf Insulation recognises the need to establish, develop and support a professional network of distributors and re-sellers in order to service a growing insulation market.
- Knauf Insulation is committed to providing a comprehensive range of relevant sales and marketing literature and web-based technical information to support specifiers and customers.

Environmental

Earthwool Wall and Ceiling Batts are free from CFCs, HCFCs and any other material with ozone depletion potential in the manufacture and content and represent no known threat to the environment. Earthwool Wall and Ceiling Batts' manufacture has low impact on the environment and is classified as Zero ODP and Zero GWP.

Knauf Insulation's Earthwool® products with ECOSE® Technology benefit from a formaldehyde-free binder made from rapidly renewable bio-based materials instead of petroleum-based chemicals which is up to 70% less energy intensive. The technology has been developed for Knauf Insulation's glass and rock mineral wool products, enhancing their environmental credentials without affecting the thermal, acoustic or fire performance. Earthwool products made with ECOSE Technology contain no dye or artificial colours - the colour is completely natural.











For more information please visit www.knaufinsulation.com.au



Earthwool® Wall and Ceiling Batts

	E-Code	Thickness (mm)	R-Value	Dimensions (mm)	Pieces per Pack	m² Per Pack	kg Per Pack
a	E2253	75	1.5	430x1160	42	20.9	11.6
Ē	E2255	75	1.5	580x1160	12	28.3	15.6
÷	E3591	75	2.0 HD	430x1160	20	10.0	13.0
imber	E3592	75	2.0 HD	580x1160	20	13.5	17.5
Ė	(E2259)	(90)	(2.0)	(430x1160)	(32)	06.0	13.5)
<u>v.</u>	(F2261)	(90)	2.0	(580x1160)	32	(21.5	18.3
Batts	E4332	90	2.5 HD	430x1160	14	7.0	11.6
	E4333	90	2.5 HD	580x1160	14	9.4	17.0
Mall	E4473	90	2.7 SHD	430x1160	10	5.0	12.2
erone d'apar	E4335	90	2.7 SHD	580x1160	10	6.7	16.5
	E4340	140	3.1	580x1160	22	14.8	19.4

HD = High Density SHD = Super High Density

Frame	E-Code	Thickness (mm)	R-Value	Dimensions (mm)	Pieces per Pack	m² Per Pack	kg Per Pack
	E2254	75	1.5	450x1200	42	22.7	12.5
Metal	E2257	75	1.5	600x1200	42	30.2	16.7
	E3594	75	2.0	450x1200	20	10.8	14.1
8atts	E3595	75	2.0	600x1200	20	14.4	18.8
	E2260	90	2.0	450x1200	32	17.3	14.7
E S	E2262	90	2.0	600x1200	32	23.0	19.6

	E-Code	Thickness (mm)	R-Value	Dimensions (mm)	Pieces per Pack	m² Per Pack	kg Per Pack
	E2264	125	2.5	430x1160	30	15.0	13.8
пше	E2265	125	2.5	580x1160	30	20.2	18.6
Timber Frame	(E2270)	(145)	3.0	(430x1160)	23	(11.5	13.2)
lbei	E2271	145	(3.0)	(580x1160)	23	15.5	17.8
Ē	E2281	175	3.5	580x1160	21	14.1	18.2
l s	E4342	175	3.5	430x1160	21	10.5	13.4
=	E2283	195	4.0	580x1160	18	12.1	18.4
<u> </u>	E4343	195	4.0	430x1160	18	9.0	13.6
Ceiling Batts	E2285	210	5.0	580x1160	11	7.4	17.7
J	E4344	210	5.0	430x1160	11	5.5	13.2
	E2287	275	6.0	580x1160	11	7.4	18.3
	E4345	275	6.0	430x1160	11	5.5	13.6

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For more information please visit www.knaufinsulation.com.au



Permastop® Building Blanket

Making metal roofs better

Product description and typical applications

Permastop® Building Blanket is a high quality insulating product that features excellent thermal and acoustic performance. Permastop® Building Blanket is a glasswool insulation blanket faced on one side with Sisalation® reflective foil laminate that is non-permeable to moisture. A 150mm foil lap is provided on one side to allow the moisture barrier to be sealed. Permastop® Building Blanket is available in a wide range of Sisalation® foil facings.

Permastop® Building Blanket provides condensation control under metal deck roofs, behind wall cladding, and under concrete roof structures and reduces heat loads entering a building. It also provides an excellent solution for acoustic treatment of metal clad buildings by reducing internal reverberation and unwanted noise created by rain, hail, and the expansion and contraction of metal roofing and cladding.

In temperate and sub-tropical climates, Permastop® Building Blanket is installed with the foil facing down and the blanket in contact with the underside of the roof. In Darwin, foil-faced blanket is commonly installed with the foil side facing upwards, over an optional separate foil on the underside

Product Type	Product Thickness	Material R-value	Product Code	Dimensions m x mm	Area per rol m ²
California Prisa Magnato	66 mentana	(R1.3)	(012160)	(15 x 1200)	(18)
Permastop®	55	R1.3	912200	15 x 1400	21
Building	75	R1.8	913150	15 x 1200	18
Blanket	75	R1.8	912075	15 x 1400	21
Light Duty	100	R2.5	914100	10 x 1200	12
Sisalation®	130	R3.0	930100	10 x 1200	18
Foil Facing	130	R3.2*	930101	10 x 1200	12
	130	R3.6*	930360	6.5 x 1200	7.8
Permastop®	55	R1.3	917150	15 x 1200	18
Building	75	R1.8	918150	15 x 1200	18
Blanket	100	R2.5	919100	10 x 1200	12
Medium Duty	130	R3.0	931100	10 x 1200	12
Sisalation®	130	R3.2 *	930201	10 x 1200	12
Foil Facing	130	R3.6 *	930362	6.5 x 1200	7.8
Permastop®	55	R1.3	92/150	15 x 1200	18
Building	75	H1.8	928150	15 x 1200	18
Ulanket	100	H2.5	929100	10 X 1200	12
Heavy Duty	130	R3.0	932100	10 x 1200	12
Sisalation®	130	R3.2*	930301	10 x 1200	12
Foil Facing	130	∏3.6 ×	930364	6.5 x 1200	7.8

White and Black foil facings are available upon request. Contact your nearest sales office for details

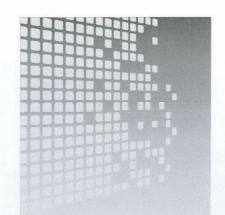
*Permastop® Building Blanket 130mm R3.2 and R3.6 are respectively manufactured in increasing density to achieve the higher R-value.

Total R-values

A summary of Total R-values for typical roof systems is illustrated in the Permastop® Building Blanket brochure, or more comprehensive calculations can be viewed in the ICANZ Insulation Handbook which can be found at www.icanz.org.au>PublicationsandReports>InsulationHandbook, or contact Fletcher Insulation® Technical Services on 1800 000 878

Green Star compliant

Fletcher Insulation® is committed to providing environmentally sustainable products. Fletcher Insulation® products have Zero Ozone Depleting Potential in both manufacture and composition, complying with the GreenStar Insulant ODP Emissions credit requirement. VOC emissions are low.



AS/NZS 4859.1: 2002 - Including Amendment 1 Materials for the Thermal Insulation of

Permastop® Building Blanket comply with the Energy Efficiency provisions of the BCA for all types of thermal insulation to be certified by a NATA accredited organisation.



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We safely deliver extraordinary value to our customers



Technical Data Sheet



Permastop® Building Blanket exhibits the following characteristics when tested in accordance with AS1530 Part 3.

0
0
0
1

Moisture absorption

In the event of Permastop® Building Blanket becoming wet, it should be dried prior to installation to obtain maximum performance and prevent damage to other building elements.

Alkalinity

When tested in accordance with British Standard 3958, Fletcher Insulation® glasswool products are slightly alkaline pH9 (neutral is pH7).

Maximum service temperature

Permastop® Building Blanket is manufactured for use at temperatures that are normally experienced in building systems. Permastop® Building Blanket maximum and minimum service temperatures range from sub-zero to a maximum of 340°C. The surface temperature of Permastop® Building Blanket faced with Sisalation® foil should not exceed 70°C.

Specification notes

State the following:

- Product name Permastop® Building Blanket
- Facing required e.g. Sisalation® Light/Medium/Heavy Duty
- Material R-value required

Note: The Total R-value or thermal performance of building systems with reflective foils depends on the installation method used and the direction of heat flow.



The production of environmentally sustainable FBS-1 Glasswool Bio-Soluble Insulation® utilises approximately 80% recycled waste glass.



Low Allergen content with the ability to moderate temperature changes.



Fletcher Insulation® glasswool products are manufactured from FBS-1 Glasswool Bio-Soluble Insulation® FBS-1 Glasswool Bio-Soluble Insulation® is not classified as hazardous according to the criteria of the Australian Safety and Compensation Council (formerly NOHSC), Approved Criteria for Classifying Hazardous Substances (NOHSC: 1008) 3rd Edition. Fletcher Insulation® glasswool is classified as safe to use, refer to our MSDS.



Fletcher Insulation

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CONTRACTOR LICENCE

Carpenter & Joiner



RYAN GRANT MCEWAN

45 Mansfield Way KELLYVILLE NSW 2155 NUMBER 208355C

EXPIRES 08/09/2017





Slip Check to AS 4586:2013 Pietra White Matt 300 x 600mm

NATA Accreditation Number 17139

The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards

Accredited for compliance with ISO/IEC 17025

NATA is a signatory to the APLAC mutual recognition arrangement for the mutual recognition of the equivalence of testing, calibration and inspection reports



A division of Safe Environments Pty Ltd www.SafeEnvironments.com.au

4/40 Bessemer Street Blacktown NSW 2148 Phone 02 9621 3706 ABN 80 118 534 768

17 November 2015

Test Report No. R9756

Slip Resistance Classification of New Pedestrian Surface Materials

AS 4586:2013 Appendix A (Wet Pendulum Test)

The slip resistance Classification has been determined for unused surfaces using specific conditions. Factors such as usage, cleaning systems, applied coatings and patterns of wear may affect the characteristics of the surface.

Requested by:

Royal Tiles Pty Ltd

Client Address:

247 Parramatta Road Auburn NSW 2144

Product Manufacturer:

Supplied by Royal Tiles Pty Ltd

Product Description:

Pietra White Matt 300 x 600mm

Test conducted according to:

AS 4586:2013 Appendix A

Location:

Slip Check Pty Ltd Test Facilities, Blacktown NSW 2148

Conducted by:

Clare Spinelli

Date:

16 November 2015

Temperature:

21°C

Sample:

Unfixed

Cleaning: Conditioned: None Grade P 400 paper dry followed

Rubber slider used:

Slider 55 Tested on a flat level surface

by wet lapping film

Slope of specimen: Direction of Test:

NA

	Specimen 1	Specimen 2	Specimen 3	Specimen 4	Specimen 5
Mean BPN of last 3 swings:	46	44	43	44	44

Reported SRV of Sample:	44
Temperature Corrected SRV of Sample:	44
Class:	P4



Ryan Voorderhake

Laboratory/Field Technician





Slip Check to AS 4586:2013 Pietra White Matt

NATA Accreditation Number 17139

The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards

Accredited for compliance with ISO/IEC 17025

NATA is a signatory to the APLAC mutual recognition arrangement for the mutual recognition of the equivalence of testing, calibration and inspection reports



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4/40 Bessemer Street Blacktown NSW 2148 Phone 02 9621 3706 ABN 80 118 534 768

1 September 2015

Test Report No. R9306b

Slip Resistance Classification of New Pedestrian Surface Materials

AS 4586:2013 Appendix A (Wet Pendulum Test)

The slip resistance Classification has been determined for unused surfaces using specific conditions. Factors such as usage, cleaning systems, applied coatings and patterns of wear may affect the characteristics of the surface.

Requested by: Royal Tiles Pty Ltd

Client Address: 3 Cox Place

Glendenning NSW 2761

Product Manufacturer: Supplied by Royal Tiles Product Description: Pietra White Matt

Test conducted according to: AS 4586:2013 Appendix A

Location: Slip Check Pty Ltd Test Facilities, Blacktown NSW 2148

Conducted by: Clare Spinelli

Date: 31 August 2015 Temperature: 18°C Sample: Unfixed Cleaning: None

Rubber slider used: Slider 55 Conditioned: Grade P 400 paper dry followed

Slope of specimen: Tested on a flat level surface by wet lapping film

Direction of Test: NA

	Specimen 1	Specimen 2	Specimen 3	Specimen 4	Specimen 5
Mean BPN of last 3 swings:	35	33	34	38	36

35
35
P3



TECHNICAL

Ryan Voorderhake

Laboratory/Field Technician





Slip Check to AS 4586:2013 Pietra White Textured

NATA Accreditation Number 17139

The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards

Accredited for compliance with ISO/IEC 17025

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4/40 Bessemer Street Blacktown NSW 2148 Phone 02 9621 3706 ABN 80 118 534 768

1 September 2015

Test Report No. R9306a

Slip Resistance Classification of New Pedestrian Surface Materials

AS 4586:2013 Appendix A (Wet Pendulum Test)

The slip resistance Classification has been determined for unused surfaces using specific conditions. Factors such as usage, cleaning systems, applied coatings and patterns of wear may affect the characteristics of the surface.

Requested by:

Royal Tiles Pty Ltd

Client Address:

247 Parramatta Road Auburn NSW 2144

Product Manufacturer:

Supplied by Royal Tiles

Product Description:

Pietra White Textured

Test conducted according to:

AS 4586:2013 Appendix A

Location:

Slip Check Pty Ltd Test Facilities, Blacktown NSW 2148

Conducted by:

Clare Spinelli

Date:

31 August 2015

Temperature:

18°C

Sample:

Unfixed

Cleaning: Conditioned: None Grade P 400 paper dry followed

Rubber slider used: Slope of specimen: Slider 55 Tested on a flat level surface

by wet lapping film

Direction of Test:

NA

	Specimen 1	Specimen 2	Specimen 3	Specimen 4	Specimen 5
Mean BPN of last 3 swings:	51	52	56	56	53

Reported SRV of Sample:	54
Temperature Corrected SRV of Sample:	54
Class:	P5



TECHNICAL

Ryan Voorderhake

Laboratory/Field Technician