



KEYSTONE
PROJECTS GROUP

Homebush Business Village
Unit 3, 11 – 21 Underwood Road
Homebush NSW 2140
Tel: 02 9764 6311
Fax: 02 9764 6322

ABN 87 132 932 917

Date: 25th June 2013

To whom it may concern,

RE: BROOKVALE OCCASIONAL CARE CENTRE

Name: Keystone Projects Group

Address: Unit 6, 11-21 Underwood Road Homebush NSW 2140

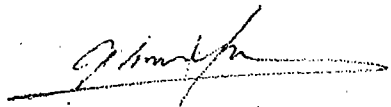
Owner: Warringah Council

Owner's Address: Civic Centre 725 Pittwater Rd Dee Why NSW 2099

I, Alan Luong on behalf of Keystone Projects Group Pty Ltd, Herby certify that all

- Fire Safety compliance issues, including all fire rating, fire stopping, seals and protection of openings completed by Keystone Projects Group at the Brookvale Occasional Care Centre comply and satisfy the relevant Australian Standards, BCA and Council Requirements.
- Tactile/braille signage for Disabled people has been installed to comply with Specification D3.6 of the BCA
- Treads and risers dimensions for public and private stairs (external and internal) are constant throughout each respective stair flight to comply and satisfy the relevant Australian Standards, BCA and Council Requirements.
- Carpark works have been completed in accordance with the architects plans and amendments, with the exception of line marking and bollard installation
- Landscaping works have been completed in accordance with the architect's drawing JDH02.PP02
- Insulation of walls, ceilings and roofs has been completed in accordance with Part J1 of the BCA
- Installation of sealing to roofs, walls & floors have been installed in accordance with J3 of the BCA
- Compliance with all relevant conditions of the Development Consent
- No mechanical ventilation has been completed

Signature:

A handwritten signature in black ink, appearing to read 'Alan Luong', written over a horizontal dotted line.

Alan Luong

Date: 25th June 2013

Moderne Welding Pty Ltd

48 Gould St. Strathfield South NSW

ABN: 94 102 499 623 Ph: 02 9642 1161 Fax: 02 9642 1793

INSTALLATION CERTIFICATE

SERVICE: Design & Installed Balustrades & Handrail

PROJECT: Brookvale Occasional Care

WORKS BEING CERTIFIED: Design & Installation

I, Danny Xu, of Modern Welding Group Pty Ltd, to my best of knowledge and experience, here by certify that all balustrades, handrails have been design and installed as per structural and architectural design and design and we confirm that they have been installed in accordance to AS1170.1.

Name of certifier: Danny Xu

Company: Moderne Welding PTY LTD

Address: 48 Gould ST Strathfield South

Qualifications of certifier: Engineer (Fabrication)

Phone number (02) 9642 3066

Fax number (02) 9642 1793

Signature: 

If you do not receive any of these pages please phone sender : (02) 9642 1161

Builders Metalworker Automatic Gates Pipe Railings Crash Barriers Structural Steelwork

G & R ROBY PTY LTD
PO BOX 3088
KIRRAWEE NSW 2232
PH: (02) 9542 1971 FAX: (02) 8639 7054
ABN: 13 673 302 810

Installation Certificate

Building Element: Glazing
Installed at: BROOKVALE OCCASIONAL CARE CENTRE
Works being certified: Installation
Date of certification: 28/5/2013

Reference is made to the installation of the above service installed at the above address.
The installation of the building element has been undertaken in the following areas.

Windows & Doors

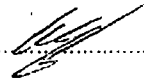
I certify, under the provisions of Clause B1.3 of the Building Code of Australia and AS 1288 & 2208 that the service has been inspected by me and was found to have been installed in accordance with all the relevant requirements listed below.

BCA Clauses B 1.3
Australian Standards AS 1288 & 2208, AS2047-1999
Basix Section J
Glass Meets Section J Section J Glass Performance
U Value 4.2
SHGC 0.61

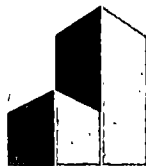
Any Appropriate Council Requirement Not Applicable

Certified by

GLENN ROBY



INSTALLATION CERTIFICATE



ARCHILAND CONTRACTORS

ABN 52 146 449 694

DATE 6th June 2013
TO Keystone Projects Group
ATTN To whom it may concern
TEL 02 9764 6311
FAX 02 9764 6322
EMAIL mark.brogan@keystoneprojectsgroup.com.au
PROJECT Brookvale Occasional Care Centre

Pursuant to the provisions of Part 4A of the Environmental Planning and Assessment Act 1979.

I, **Sam Sool Kim** of **Archiland Contractors Pty Ltd** trading at **30B Legge St, Roselands NSW 2196**
(Name of Cere r) (Company) (Address)

hereby certify:-

That the works have been installed in the building (Building work/element) project comply with:-

- a) The relevant clauses of the Building Code of Australia,
Waterproofing & Wet Areas – F1.7-2008
- b) The architectural/services/structural plans and specifications approved by the Accredited Cere r and released for construction.
- c) The relevant Australian Standards listed in the Building Code of Australia (Specification A1.3)
- d) The following Australian standards:
Adhesives - AS 2528-1982
Mortar - AS 3972-1997
Bedding Mortar - AS 3598.1-2007
Waterproofing & Wet Areas - AS 3740-2004
- e) Other practices or standards relied upon for this certificate:
BCA Section J
Work Cover Requirements
Ceramic Tiling

Company: Archiland Contractors Pty Ltd
Trade: Tiling
Company Address: 30B Legge Street, Roselands NSW 2196
Ph: 9740 9655 **Fax:** 9740 9677 **Mob:** 0414 239 255

Signature:  **Date:** 06.06.2013

ADDRESS 30B Legge St, Roselands NSW 2196
WEB www.archilands.com

TEL +02 9740 9655
FAX +02 9740 9677

13 June 2013

Our Ref: 977AJ-00

Mark Brogan
Keystone Projects Group

Email: mark.brogan@keystoneprojectsgroup.com.au



MITCHELL
LAND SURVEYORS

Dear Mark,

Re: Identification Survey

Land in the LGA of Warringah, Parish of Manly Cove, County of Cumberland, with a frontage to Federal Parade and Pine Ave, Brookvale being Lost 1 and 2 in DP 1141128 and being land comprised in Certificate of Title Auto Consol 1600-212 (searched on 13/06/2013).

Thank you for your instruction to prepare an Identification Survey Report for the above property. This report has been prepared for Identification purposes and is not authorised to be used for any other purpose.

On the land and wholly within the boundaries, is erected a clad building with a tile roof, together with a Bin Store.

It is our opinion that the building stands in relation to the boundaries as shown on the sketch.

The boundaries of the property are fenced as shown on the sketch. Structures outside the western fence were not surveyed. The bin store encroaches over the splay boundary by 0.04 as shown on the sketch.

Other than due to minor irregularities in fencing, and the above mentioned, it is our opinion that there are no further visible encroachments by or upon the subject land.

No restrictions or covenants have been investigated by us.

Levels relate to PM 4600 RL 27.565 shown on architectural plans A-001_0 by JDH Architects.

This survey has been carried out for Identification purposes only.

Yours sincerely,

Stephen J. Mitchell
Managing Director
Registered Surveyor

PROFESSIONAL
SURVEYORS
OCCUPATIONAL
ASSOCIATION



Liability limited by a scheme
approved under Professional
Standards Legislation



Member of Consulting Surveyors
New South Wales

Mitchell Land Surveyors Pty Limited
ABN 49 129 632 391
Suite 4, 629 Kingsway Miranda
PO Box 59 Miranda NSW 1490
Ph: 02 9531 0060 Fax: 02 8569 1072
enquiries@mitchellsurveying.com.au
www.mitchellsurveying.com.au

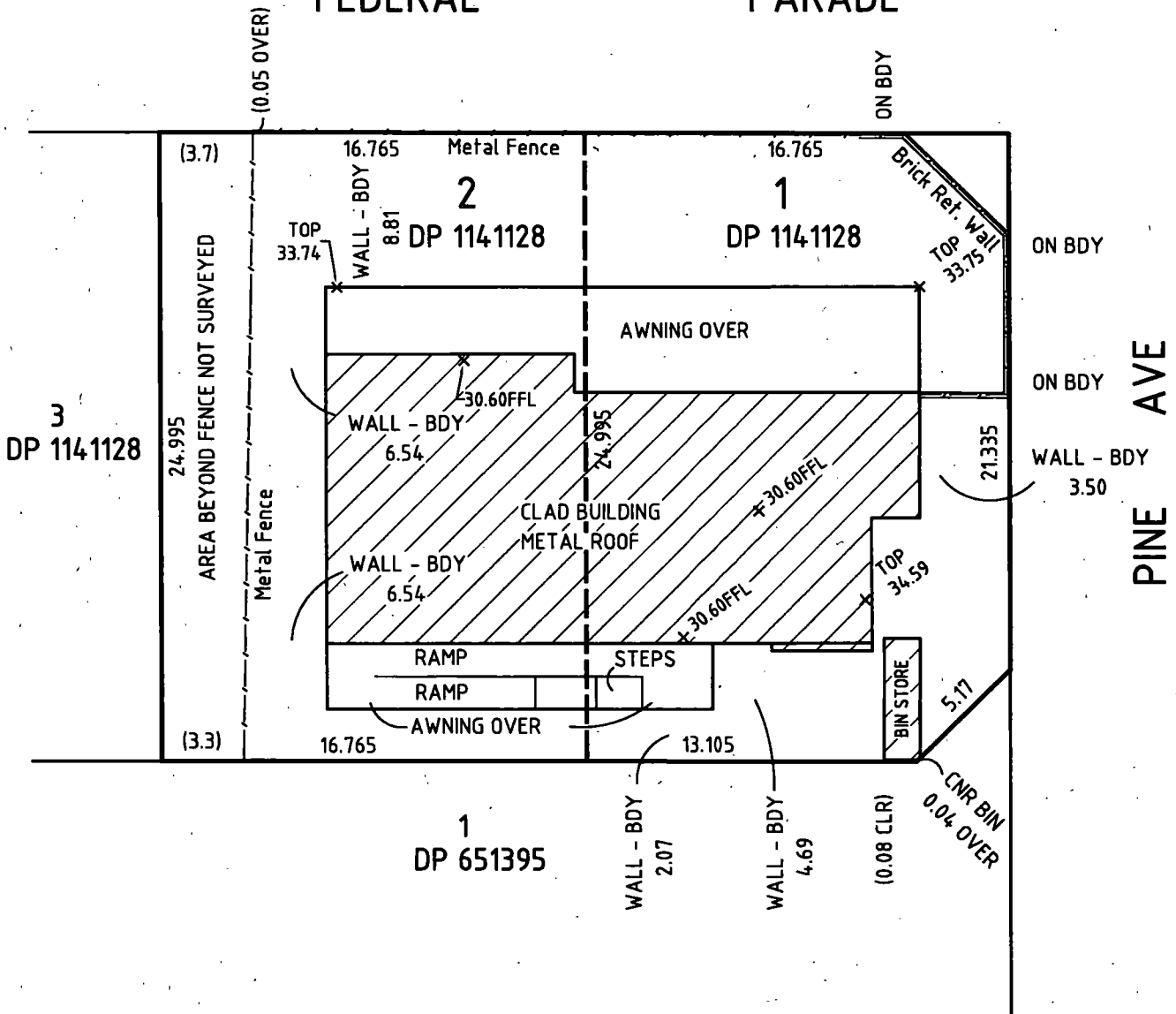


ABN 49 129 632 391
 Mitchell Land Surveyors Pty Ltd
 Suite 4, 629 Kingsway Miranda
 PO Box 59 Miranda NSW 1490
 Ph: 02 9531 0060 Fax: 02 9531 0068
 enquiries@mitchellsurveying.com.au
 www.mitchellsurveying.com.au

Date: 13 JUNE 2013
 Our Ref: 977AJ-00



FEDERAL PARADE



Stephen Joseph Mitchell

I, Stephen Joseph Mitchell, a Surveyor registered under the Surveying and Spatial Information Act 2002, certify that the survey represented in this plan is accurate and has been made in accordance with the Surveying and Spatial Information Regulation 2012

AWTA PRODUCT TESTING

Australian Wool Testing Authority Ltd - trading as AWTA Product Testing
A.B.N. 43 006 014 106

1st Floor, 191 Racecourse Road, Flemington, Victoria 3031
P.O. Box 240, North Melbourne, Victoria 3051
Phone (03) 9371 2400 Fax (03) 9371 2499

TEST REPORT

CLIENT : INTERFACE AUSTRALIA PTY LTD
14 HENRY STREET
PICTON NSW 2571

TEST NUMBER : 7-557842-AN
DATE : 14/02/2008
ORDER NUMBER : 20779

SAMPLE DESCRIPTION Clients Ref: "1968 Collection"
Tufted cut and loop pile carpet tiles
Colour: Khaki / Olive
Approximate pile height: 2.5mm

Material Specification:
Nominal composition: 100% Solution dyed nylon
Nominal total pile mass: 712g/m²
Nominal backing: Glasbac backing

ASISO 9239.1-2003
Part 1

Reaction to Fire Tests for Floorings
Determination of the Burning Behaviour
using a Radiant Heat Source

Date of sample arrival: 31/01/2008
Date tested: 12/02/2008
Results:

CHF (Critical Heat Flux / Critical Radiant Flux)

	1	2	3	Mean	
Length	6.3	5.3	6.3	6.0	kW/m ²
Width	6.9	-	-	-	kW/m ²

	1	2	3	Mean	
Length	98	72	91	87	% min
Width	85	-	-	-	% min

Observations: Melting
Blistering

Note: Sample was conditioned in accordance with BSEN 13238-2001 at a temperature of 23+/-2degC and Relative Humidity of 50+/-5% for a minimum of 48 hours prior to testing

Each specimen was adhered to a substrate of 6mm thick fibre reinforced cement board using Roberts 656 adhesive and clamped prior to testing

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(CONTINUED NEXT PAGE)

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This Laboratory is accredited by the National Association of Testing Authorities, Australia, for:
- Chemical Testing of Textiles & Related Products : Accreditation No. 983
- Mechanical Testing of Textiles & Related Products : Accreditation No. 985
- Heat & Temperature Measurement : Accreditation No. 1356

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Jandolac
APPROVED SIGNATORY

AWTA PRODUCT TESTING

Australian Wool Testing Authority Ltd - trading as AWTA Product Testing
A.B.N. 43 006 014 106

1st Floor, 191 Racecourse Road, Flemington, Victoria 3031
P.O. Box 240, North Melbourne, Victoria 3051
Phone (03) 9371 2400 Fax (03) 9371 2499

TEST REPORT

CLIENT : INTERFACE AUSTRALIA PTY LTD
14 HENRY STREET
PICTON NSW 2571

TEST NUMBER : 7-557842-AN
DATE : 14/02/2008
ORDER NUMBER : 20779

The test results relate to the behaviour of the test specimens of a product under the particular conditions of the test, they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use

166255

PAGE 2

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0204/11/06

Sandola

APPROVED SIGNATORY

Michael Jackson
MICHAEL A JACKSON B Sc (Hons)
MANAGING DIRECTOR

TNO Building and Construction Research

Centre for Fire Research
Van Mourik Broekmanweg 6
P.O. Box 49
2600 AA Delft

TNO report

2003-CVB-R0360(E)

**Examination according to EN ISO 11925-2: 2002
and EN ISO 9239-1: 2002 of Forbo Marmoleum
and Artoleum floor covering with a thickness
range of 2 mm to 4 mm, glued on the non-
combustible fibre cement board**

www.tno.nl

T +31 15 276 30 00
F +31 15 276 30 25

Date December 2003

Author(s) W. Langstraat

Sponsor Forbo Linoleum B.V.
P.O. Box 13
NL-1560 AA KROMMENIE
The Netherlands

This report was compiled in December 2003.
If it is to be consulted after a period of time, it is
advisable to contact the Technical Centre for Fire
Research TNO to check whether the usefulness
remains unaltered.

Project name Reaction to fire/smoke production of floorings
Project number 006.35104/01.21.01
Number of pages 5
Number of appendices -

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relevant agreement concluded between the contracting parties. Submitting the report for
inspection to parties who have a direct interest is permitted.

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Subject:

Forbo **Marmoleum** and **Artoleum** floor covering with a thickness range of 2 mm to 4 mm, glued on non-combustible fibre cement board.

Purpose of tests:

Determination of the ignitability according to EN ISO 11925-2: 2002 and the reaction to fire and smoke production of floor coverings according to EN ISO 9239-1: 2002 for classification according to the European classification standard EN 13501-1:2002

Description of the material:*Composition:*

According to the manufacturer the Marmoleum and Artoleum products are produced according to EN 548 and are based on a two-layer homogeneous mixture of linoleum cement, wood flour, limestone and pigments, applied on a jute backing.

1 - With all types the base layer, including the jute backing has a maximum thickness of

1.1 mm thick standard linoleum; a mix of wood flour, binder

based on linseed oil and lime stone, and pigments,

2 - Top layer consists of the same composite as the base layer.

Linoleum cement consists of a mixture of linseed oil and/or other vegetable drying oils and resin.

Dimensions and surface density:

Overall product thickness: Nominally 2.0 mm to 4.0 mm.

Surface densities: From approx. 2.4 to 4.6 kg/m².

Sample:*Sampling:*

On October 30, 2003 of the different product grades the following samples were submitted for examination by the contractor:

No.	Sample	Dessin	Thickness [mm]	Surface density [kg/m ²] (*)
1	Marmoleum Real	3038	2.0	2.46
2	Marmoleum Real	3846	2.5	3.0
3	Marmoleum Real	3038	3.2	3.8
4	Artoleum Piazza	5403	2.5	2.97
5	Marmoleum Real	3075	4.0	4.56

(*) Note: Surface density determined on the submitted samples.

Sample age:

No information received.

Preparations and conditioning:

Prior to the examinations the specimens were glued by representatives of Forbo Linoleum at the Centre for Fire Research of TNO according to prescriptions with Eurocol 411 adhesive on non-combustible fibre cement board (ISO 390 – 1800 ± 200 kg/m³ - 6 mm) as given in § 5.1.2 of EN 13238: 2001 and conditioned for approx. 3 weeks at 23 ± 2 °C and 50 ± 5 % relative humidity according to § 4.1 of EN 13238: 2001.

Method of examinations:

The examination on flammability was carried out according to the EN ISO 11925-2: 2002 and the reaction to fire tests - horizontal fire propagation and smoke production of floor coverings - according to the EN-ISO 9239-2: 2002.

With the flammability examination the surface and edge flame application tests were carried out with 15 seconds.

With the reaction to fire examination on each product thickness at first two tests were carried out in each direction of the products; one on a specimen cut in the production direction and one cut perpendicular to the production direction. Based on the test result found the examination was continued in the direction with the less positive result for each type.

Test results of (A) the flammability according to EN-ISO 11925-2: 2002 and (B) the reaction to fire according to EN-ISO 9239-1: 2002 of Forbo Marmoleum and Artoleum floor covering with a thickness range of 2 mm to 4 mm, glued on standard fibre cement board.

A - Ignitability – EN-ISO 11925-2: 2002 - flame application times of 15 seconds.

<i>Surface and Edge flame applications</i>					
Type & thickness	Test	Reaching or passing the "150 mm limit" within 20 sec.	Max. After-burning	Max. flame height	Max. burnt / damaged surface (height x width)
mm		[s]	[s]	mm	mm x mm
Real - 2.0	1 to 6	∞ (6x)	0 (6x)	30	30 x 12
Real - 2.5	1 to 6	∞ (6x)	0 (6x)	32	32 x 13
Real - 3.2	1 to 6	∞ (6x)	0 (6x)	35	35 x 12
Artoleum - 2.5	1 to 6	∞ (6x)	0 (6x)	28	25 x 10
Real - 4.0	1 to 6	∞ (6x)	0 (6x)	33	32 x 13
Average for all types		No passing	0	-	-

The whole examined thickness range of the Forbo Marmoleum and Artoleum floor coverings comply with the flammability criteria of the Euroclass E_n according to EN 13501-1: 2002.

Test results of (A) the flammability according to EN-ISO 11925-2 and (B) the reaction to fire according to EN-ISO 9239-1: 2002 of Forbo Marmoleum and Artoleum floor covering with a thickness range of 2 mm to 4 mm, glued on standard fibre cement board.

B - Horizontal surface flame spread – EN 9239-1: 2002.

Marmoleum type	Thickness	Product direction (*)	Maximum flame spread		Critical heat flux.. (CHF/HF-30)	Smoke density
			distance	time		
	mm		m	min	kW/m ²	% x min
Real	2.0	L	0.29	18	7.4	88
		C	0.36	19	5.9	139
			0.37	30	5.7	118
Average values			0.365	≤ 30	5.8	130
Real	2.5	L	0.21	16	9.1	75
		C	0.29	25	7.4	116
			0.285	17	7.5	140
Average values			0.29	< 30	7.4	128
Real	3.2	L	0.38	28	5.5	189
		C	0.42	30	4.7	198
			0 ⁽¹⁾	-	>11	3
Average values			0.40	≤ 30	5.0	194
Artoleum	2.5	L	0.32	30	6.8	129
		C	0.36	30	5.9	167
			0.39	30	5.3	189
Average values			0.375	30	5.4	178
Real	4.0	L	0 ⁽¹⁾	-	> 11	21
		C	0.41	30	4.9	216
			0.38	30	5.5	220
Average values			0.395	30	5.1	218

(*) Production = specimens cut in the production direction of the floor covering. The tests indicated with C(ross) the specimens had been cut perpendicular to the production direction.

Depending on the less positive result that was found either in production direction or the cross direction the examination was carried out in the less positive direction on which the average values over these tests results was determined.

(1) With these tests no ignition of the surface occurred during the 10 minutes burner flame application.

Assessment:

According to the standard of a single product at least three surface flame spread test should be executed in the direction with the less positive result, but based on the large range of the test results the examined **Forbo Marmoleum and Artoleum floor coverings in the thickness range of 2 mm to 4 mm**, produced according to EN 548 and **glued with Eurocol 411 adhesive on non-combustible fibre cement board**, showed to fulfil the criteria that have been given for **Euroclass C_n-s1** according to **EN 13501-1: 2002**.

(Conditions for class C_n are: *Fulfil class E_n + Critical Heat Flux (CHF or HF-30) $\geq 4,5 \text{ kW/m}^2$ and $\leq 8 \text{ kW/m}^2$ and smoke $\leq 750 \%$ minutes).*

Remark 1:

The results relate to the behaviour of the test specimens of a product under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use. They are only valid for the use on supports or sub floors which are comparable to the examined one or which are in specifications comparable to the standard fibre cement board (ISO 390) ($1800 \pm 200 \text{ kg/m}^3 - 6 \text{ mm}$) according to § 5.1.2 of EN 13238: 2001.

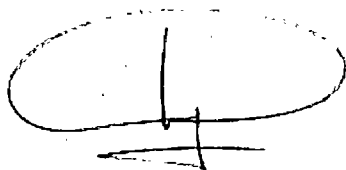
Also they are not valid if the floor covering is used in combination with combustible supports or substrates or unglued.

Remark 2:

The followed test methods for determining of the "Reaction to fire performance of floorings" according to EN-ISO 11925-2: 2002 and EN-ISO 9239-1: 2002 are similar to the methods of:

- A - The German **DIN 4102:1990, Teil 1 & 14**: "Brandverhalten von Baustoffen und Bauteilen; Bodenbeläge und Bodenbeschichtungen; Bestimmung der Flammenausbreitung bei Beanspruchung mit einem Wärmestrahler", by which the examined product met the criteria for Klasse B1, and
- B - The Dutch standard **NEN 1775: 1991 + A1/1997**: "Determination of the contribution to fire propagation of floor surfaces – "Brandvoortplanting van vloeroppervlakken".

and for the EN-ISO 9239-1: 2002 to
- C - The American **ASTM E 648-84/90**: "Standard test method for critical radiant flux of floor covering systems".



W. Langstraat



Dr. F. Paap

Jaytech Electrical

ELECTRICAL > AIR CONDITIONING > FIRE

ABN : 5102 348 0825

Phone : 0423 279 869

Email : jaytech@live.com.au

11th June, 2013

To whom it may concern,

This letter is to certify that the Electrical and Communications installation at Brookvale child care centre, Corner of Pine Ave and Federal Parade, Brookvale, complies with the following regulations:

- AS 3000 Electrical installation
- AS 3786 Smoke alarms
- AS 2293 Exit and Emergency lighting
- Building Code of Australia
- AS 3080 Telecommunications installations
- Australian Communications Authority

Regards,

Jason Brunell

Final/Interim Fire Safety Certificate

issued under the Environmental Planning and Assessment Regulation 2000 - Clauses 170 and 173

Certificate

Type of certificate

Interim Final

Certificate

Name Owner/agent address

I, Kane Davidt of Extinguisher Services Pty Ltd 14 Euston Street Rydalmere NSW 2116

Certify that

- (a) each of the essential fire measures listed below: has been assessed by a person chosen by me who was properly qualified to do so, and was found, when it was assessed, to have been properly implemented and to be capable of performing to a standard not less than that required by the most recent fire safety schedule for the building for which the certificate is issued.
(b) the information contained in the certificate is to the best of my knowledge and belief, true and accurate

Identification of Building

Location Street Corner Federal Parade & Pine Avenue
Side of Street
Nearest Cross Street
House/unit no or name
Suburb and Postcode Brookvale NSW 2100

Particulars of Building

Whole or Part
Description of part Brookvale Occasional Care Centre

Date of assessment

21.6.2013

Owner's Details

Name
Address

Essential Fire Safety Measures

Measure Standard of performance
Portable fire extinguishers AS 2444-2001 BCA Cl. E 1.6
Fire Blanket AS 2444-2001

Date of Certificate

Dated this 24th day of June 2013

Signature

[Handwritten signature of Kane Davidt]

Owner/Agent

* A copy of this certificate together with the relevant fire safety schedule must be forwarded to the council and the Commissioner of the New South Wales Fire Brigades
* A copy of this certificate together with the relevant fire safety schedule must be prominently displayed in the building



Industrial Research Services

Manuf. & Materials Technology, 14 Julius Ave (Riverside Corp. Park), North Ryde, NSW, 2113, Australia
Telephone: 61 2 9490 5444 Facsimile: 61 2 9490 5555 Email: tiles@csiro.au Web: http://www.cmmt.csiro.au

Registered Testing Authority - Building Code of Australia

23 April 2007

Our Ref. ES13 / 640 03/0212

TEST REPORT No. SY1270-9

Requested by: Forbo Floorcoverings Pty Ltd
on (date): 2 April 2007
Manufacturer: Forbo Floorcoverings
Product Desc.: Marmoleum / Artoleum

Sampling details:
Where: Delivered
Date: 11 April 2007
By whom: Courier
How (methods): N/A

The results reported relate only to the sample(s) tested and the information received. No responsibility is taken for the accuracy of the sampling unless it is done under our own supervision. CSIRO cannot accept responsibility for deviations in the manufactured quality and performance of the product. While CSIRO takes care in preparing the reports it provides to clients, it does not warrant that the information in this particular report will be free of errors or omissions or that it will be suitable for the client's purposes. CSIRO will not be responsible for the results of any actions taken by the client or any other person on the basis of the information contained in the report or any opinions expressed in it. The reproduction of this test report is only authorised in the form of a complete photographic facsimile. Our written approval is necessary for any partial reproduction.

This test report consists of 6 pages

SUMMARY OF SLIP RESISTANCE TESTS PERFORMED:

		Result	Class
AS/NZS 4586:2004	Slip resistance classification of new pedestrian surface materials		
	Appendix A: WET Pendulum (Four S). Mean BPN:	36	X
	Appendix B: DRY (FFT). Mean COF:	0.55	F
	Appendix A,B: Dual classification:		XF
AS/NZS 4586:2004	Slip resistance classification of new pedestrian surface materials		
	Appendix C: WET/BAREFOOT Ramp		
	Mean angle of inclination:	13°	A
AS/NZS 4586:2004	Slip resistance classification of new pedestrian surface materials,		
	Appendix D: OIL-WET Ramp		
	Mean overall acceptance angle:	13.9°	R 10

In order to interpret the classifications, please refer to Standards Australia Handbook 197, An Introductory Guide to the Slip Resistance of Pedestrian Surface Materials, which recommends minimum classifications for a wide variety of locations.

It is important to realise that test results obtained on unused factory-fresh samples may not be directly applicable in service, where proprietary surface coatings, contamination, wear and subsequent cleaning all influence the behaviour of the pedestrian surface.



Industrial Research Services

Manuf. & Materials Technology, 14 Julius Ave (Riverside Corp. Park), North Ryde, NSW, 2113, Australia
Telephone: 61 2 9490 5444 Facsimile: 61 2 9490 5555 Email: tiles@csiro.au Web: http://www.cmmt.csiro.au

REPORT NO: SY1270-9
ISSUE DATE: 23 April 2007
MANUFACTURER: Forbo Floorcoverings
PRODUCT DESC: Marmoleum / Artoleum

Page 2 of 6

SLIP RESISTANCE CLASSIFICATION OF NEW PEDESTRIAN SURFACE MATERIALS

WET PENDULUM TEST METHOD

TEST CARRIED OUT IN ACCORDANCE WITH
AS/NZS 4586:2004 (Appendix A)

Test Date: 11 April 2007

RESULTS: Location: Highett Slip Resistance Laboratory Rubber slider used: Four S
Sample: Fixed - Conditioned with grade P400 paper, dry
Cleaning: Acetone
Temperature: 23°C

Pendulum Friction Tester: Stanley (S/N: 0312, calibrated 03/02/07)
Test conducted by: Peter Westgate

	Specimen				
	1	2	3	4	5
Last 3 swings	37	37	36	37	36
	37	37	35	36	36
	37	36	35	36	35
Averages	37	37	35	36	36

Mean BPN : 36

CLASS :

X

Where products are to be used in wet barefoot areas, it is more appropriate to test to Appendix C of AS/NZS 4586 (which is technically equivalent to DIN 51097).



Industrial Research Services

Manuf. & Materials Technology, 14 Julius Ave (Riverside Corp. Park), North Ryde, NSW, 2113, Australia
Telephone: 61 2 9490 5444 Facsimile: 61 2 9490 5555 Email: tiles@csiro.au Web: http://www.cmmt.csiro.au

REPORT NO: SY1270-9
ISSUE DATE: 23 April 2007
MANUFACTURER: Forbo Floorcoverings
PRODUCT DESC: Marmoleum / Artoleum

Page 3 of 6

SLIP RESISTANCE CLASSIFICATION OF NEW PEDESTRIAN SURFACE MATERIALS

DRY FLOOR FRICTION TEST METHOD

TEST CARRIED OUT IN ACCORDANCE WITH
AS/NZS 4586:2004 (Appendix B)

Test Date: 11 April 2007

RESULTS Location: Hihett Slip Resistance Laboratory Rubber Type: Four S
Sample: Fixed Conditioned with grade P400 paper, dry
Cleaning: Acetone
Temperature: 23°C
FFT measurements taken over 2 passes of 800mm each

Floor Friction Tester: Tortus Mk II (S/N: 244)
Test conducted by: Peter Westgate

Run 1: Average COF: 0.53
Run 2: Average COF: 0.52
Mean COF: 0.53

According to AS/NZS 4586 the Dry Coefficient of Friction shall be reported as : 0.55
(mean rounded to the nearest 0.05)

CSIRO CLASS :

F



Industrial Research Services

Manuf. & Materials Technology, 14 Julius Ave (Riverside Corp. Park), North Ryde, NSW, 2113, Australia
Telephone: 61 2 9490 5444 Facsimile: 61 2 9490 5555 Email: tiles@csiro.au Web: http://www.cmmt.csiro.au

REPORT NO: SY1270-9
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PRODUCT DESC: Marmoleum / Artoleum

Page 4 of 6

SLIP RESISTANCE CLASSIFICATION OF NEW PEDESTRIAN SURFACE MATERIALS

WET/BAREFOOT RAMP TEST METHOD

TEST CARRIED OUT IN ACCORDANCE WITH
AS/NZS 4586:2004 (Appendix C)

Test Date: 11 April 2007

Location: Slip Resistance Laboratory

Sample Fixed

Joint width: mm

Surface structure: Smooth
 Profiled
 Structured

RESULTS

		Actual mean	Reported mean
Mean angle of inclination:	Calibration Board A:	12.78 °	13 °
	Calibration Board B:	18.16 °	18 °
	Calibration Board C:	25.10 °	25 °
Mean angle of inclination of Test Board:		13.14 °	13 °

CLASSIFICATION:

CSIRO Quality Group:

A



Industrial Research Services

Manuf. & Materials Technology, 14 Julius Ave (Riverside Corp. Park), North Ryde, NSW, 2113, Australia
Telephone: 61 2 9490 5444 Facsimile: 61 2 9490 5555 Email: tiles@csiro.au Web: http://www.cmmt.csiro.au

REPORT NO: SY1270-9
ISSUE DATE: 23 April 2007
MANUFACTURER: Forbo Floorcoverings
PRODUCT DESC: Marmoleum / Artoleum

Page 5 of 6

SLIP RESISTANCE CLASSIFICATION OF NEW PEDESTRIAN SURFACE MATERIALS

OIL-WET RAMP TEST METHOD

TEST CARRIED OUT IN ACCORDANCE WITH
AS/NZS 4586:2004 (Appendix D)

Test Date: 11 April 2007

Location: Slip Resistance Laboratory

Sample Fixed

Joint width: mm

Surface structure: Smooth
 Profiled
 Structured

RESULTS

Mean overall acceptance angle: 13.9°

Displacement space: not tested

CLASSIFICATION:

Slip Resistance Assessment Group:

R 10

Displacement Space Assessment Group:

-



Industrial Research Services

Manuf. & Materials Technology, 14 Julius Ave (Riverside Corp. Park), North Ryde, NSW, 2113, Australia
Telephone: 61 2 9490 5444 Facsimile: 61 2 9490 5555 Email: tiles@csiro.au Web: <http://www.cmmt.csiro.au>

REPORT NO: 1270-9
ISSUE DATE: 23 April 2007
MANUFACTURER: Forbo Floorcoverings
TILE DESC: Marmoleum / Artoleum

Page 6 of 6

Date and Place 23 April 2007, North Ryde, NSW

Name, Title and Digital Signature:

A circular stamp containing a handwritten signature in cursive that reads "Hugh McMullen".

CSIRO

HUGH MCMULLEN
Laboratory Manager

Tel: 61 2 94905414
Fax: 61 2 94905555
Email: Hugh.McMullen@csiro.au

Consulting services are available if further detailed analysis of the test results are required.

PR:M030507-09:46:25



Industrial Research Services

Manuf. & Materials Technology, 14 Julius Ave (Riverside Corp. Park), North Ryde, NSW, 2113, Australia
Telephone: 61 2 9490 5444 Facsimile: 61 2 9490 5555 Email: tiles@csiro.au Web: <http://www.cmmt.csiro.au>

REPORT NO: 1270-9
ISSUE DATE: 23 April 2007
MANUFACTURER: Forbo Floorcoverings
PRODUCT DESC: Marmoleum / Artoleum

Addendum

DETERMINATION OF Rz SURFACE ROUGHNESS

(Using a Taylor-Hobson Surtronic 10 Rz roughness meter using a 0.8mm cut off length)

Test Date: 11 April 2007

RESULTS

Location: Slip Resistance Laboratory

Rz values

1	17.2
2	18.1
3	17.8
4	17.6
5	18.7
6	18.0
7	16.3
8	19.1
9	13.9
10	18.5

Surface Roughness (Rz) mean = 17.5 microns

BS 7976:2002, Pendulum Testers, requires a different test foot preparation (lapping paper) for pedestrian surfaces that have a Rz roughness of less than 15 microns. This lapping paper tends to reduce the pendulum result, sometimes appreciably. CSIRO recommends the use of this procedure (CSIRO COF1) as an adjunct to AS/NZS 4586. It helps to discriminate among products that have marginal wet slip resistance and to identify those that may be dangerous if wet.

The measurement of the various aspects of surface roughness is complex given the number of potential roughness parameters. While there is still some uncertainty as to exactly what type of roughness needs to be measured, peak-to-trough roughness (Rz) gives a useful guide to the likely slip resistance in wet conditions. Research has suggested that hard floors need to have a slightly higher Rz roughness than polymeric floors for the same degree of safety in wet conditions, but whatever flooring material is used an Rz roughness value of at least 10 microns is required where wet slip resistance may be required. In circumstances where wetness is normal or expected, this figure should be increased by a factor of 2 or more.

Greater peak surface roughnesses are likely to be required where floors slope or where the floor is likely to become contaminated with high viscosity liquids.





MITCHELL LAND SURVEYORS PTY LTD
 ABN: 49 129 632 390
 PH: (02) 9531 0060 FAX: (02) 9531 0068
 112/113/114/115/116/117/118/119/120/121/122/123/124/125/126/127/128/129/130/131/132/133/134/135/136/137/138/139/140/141/142/143/144/145/146/147/148/149/150/151/152/153/154/155/156/157/158/159/160/161/162/163/164/165/166/167/168/169/170/171/172/173/174/175/176/177/178/179/180/181/182/183/184/185/186/187/188/189/190/191/192/193/194/195/196/197/198/199/200/201/202/203/204/205/206/207/208/209/210/211/212/213/214/215/216/217/218/219/220/221/222/223/224/225/226/227/228/229/230/231/232/233/234/235/236/237/238/239/240/241/242/243/244/245/246/247/248/249/250/251/252/253/254/255/256/257/258/259/260/261/262/263/264/265/266/267/268/269/270/271/272/273/274/275/276/277/278/279/280/281/282/283/284/285/286/287/288/289/290/291/292/293/294/295/296/297/298/299/300/301/302/303/304/305/306/307/308/309/310/311/312/313/314/315/316/317/318/319/320/321/322/323/324/325/326/327/328/329/330/331/332/333/334/335/336/337/338/339/340/341/342/343/344/345/346/347/348/349/350/351/352/353/354/355/356/357/358/359/360/361/362/363/364/365/366/367/368/369/370/371/372/373/374/375/376/377/378/379/380/381/382/383/384/385/386/387/388/389/390/391/392/393/394/395/396/397/398/399/400/401/402/403/404/405/406/407/408/409/410/411/412/413/414/415/416/417/418/419/420/421/422/423/424/425/426/427/428/429/430/431/432/433/434/435/436/437/438/439/440/441/442/443/444/445/446/447/448/449/450/451/452/453/454/455/456/457/458/459/460/461/462/463/464/465/466/467/468/469/470/471/472/473/474/475/476/477/478/479/480/481/482/483/484/485/486/487/488/489/490/491/492/493/494/495/496/497/498/499/500/501/502/503/504/505/506/507/508/509/510/511/512/513/514/515/516/517/518/519/520/521/522/523/524/525/526/527/528/529/530/531/532/533/534/535/536/537/538/539/540/541/542/543/544/545/546/547/548/549/550/551/552/553/554/555/556/557/558/559/560/561/562/563/564/565/566/567/568/569/570/571/572/573/574/575/576/577/578/579/580/581/582/583/584/585/586/587/588/589/590/591/592/593/594/595/596/597/598/599/600/601/602/603/604/605/606/607/608/609/610/611/612/613/614/615/616/617/618/619/620/621/622/623/624/625/626/627/628/629/630/631/632/633/634/635/636/637/638/639/640/641/642/643/644/645/646/647/648/649/650/651/652/653/654/655/656/657/658/659/660/661/662/663/664/665/666/667/668/669/670/671/672/673/674/675/676/677/678/679/680/681/682/683/684/685/686/687/688/689/690/691/692/693/694/695/696/697/698/699/700/701/702/703/704/705/706/707/708/709/710/711/712/713/714/715/716/717/718/719/720/721/722/723/724/725/726/727/728/729/730/731/732/733/734/735/736/737/738/739/740/741/742/743/744/745/746/747/748/749/750/751/752/753/754/755/756/757/758/759/760/761/762/763/764/765/766/767/768/769/770/771/772/773/774/775/776/777/778/779/780/781/782/783/784/785/786/787/788/789/790/791/792/793/794/795/796/797/798/799/800/801/802/803/804/805/806/807/808/809/810/811/812/813/814/815/816/817/818/819/820/821/822/823/824/825/826/827/828/829/830/831/832/833/834/835/836/837/838/839/840/841/842/843/844/845/846/847/848/849/850/851/852/853/854/855/856/857/858/859/860/861/862/863/864/865/866/867/868/869/870/871/872/873/874/875/876/877/878/879/880/881/882/883/884/885/886/887/888/889/890/891/892/893/894/895/896/897/898/899/900/901/902/903/904/905/906/907/908/909/910/911/912/913/914/915/916/917/918/919/920/921/922/923/924/925/926/927/928/929/930/931/932/933/934/935/936/937/938/939/940/941/942/943/944/945/946/947/948/949/950/951/952/953/954/955/956/957/958/959/960/961/962/963/964/965/966/967/968/969/970/971/972/973/974/975/976/977/978/979/980/981/982/983/984/985/986/987/988/989/990/991/992/993/994/995/996/997/998/999/1000



DRAINAGE CONCEPT PROPOSAL

Date: 13/6/13 Our Ref: 977AK.

LEGEND

-  U.P.V.C. SEWER CLASS DRAINAGE LINE WITH A MINIMUM FALL OF 1.0% UNLESS NOTED OTHERWISE.
-  DIRECTION OF FALLS FOR DRAINAGE LINES.
-  ACCESS HATCHES 600 x 600
-  EXISTING SITE SPOT LEVELS

ON-SITE DETENTION CALCULATIONS

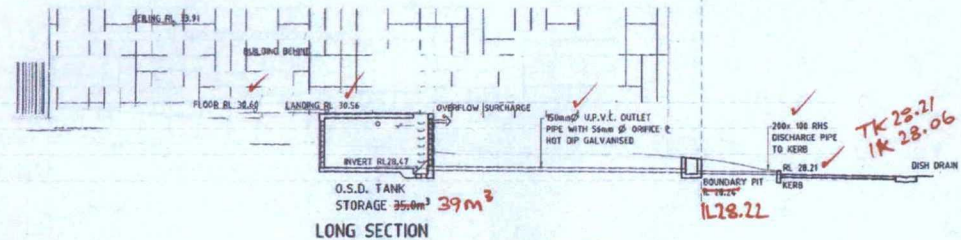
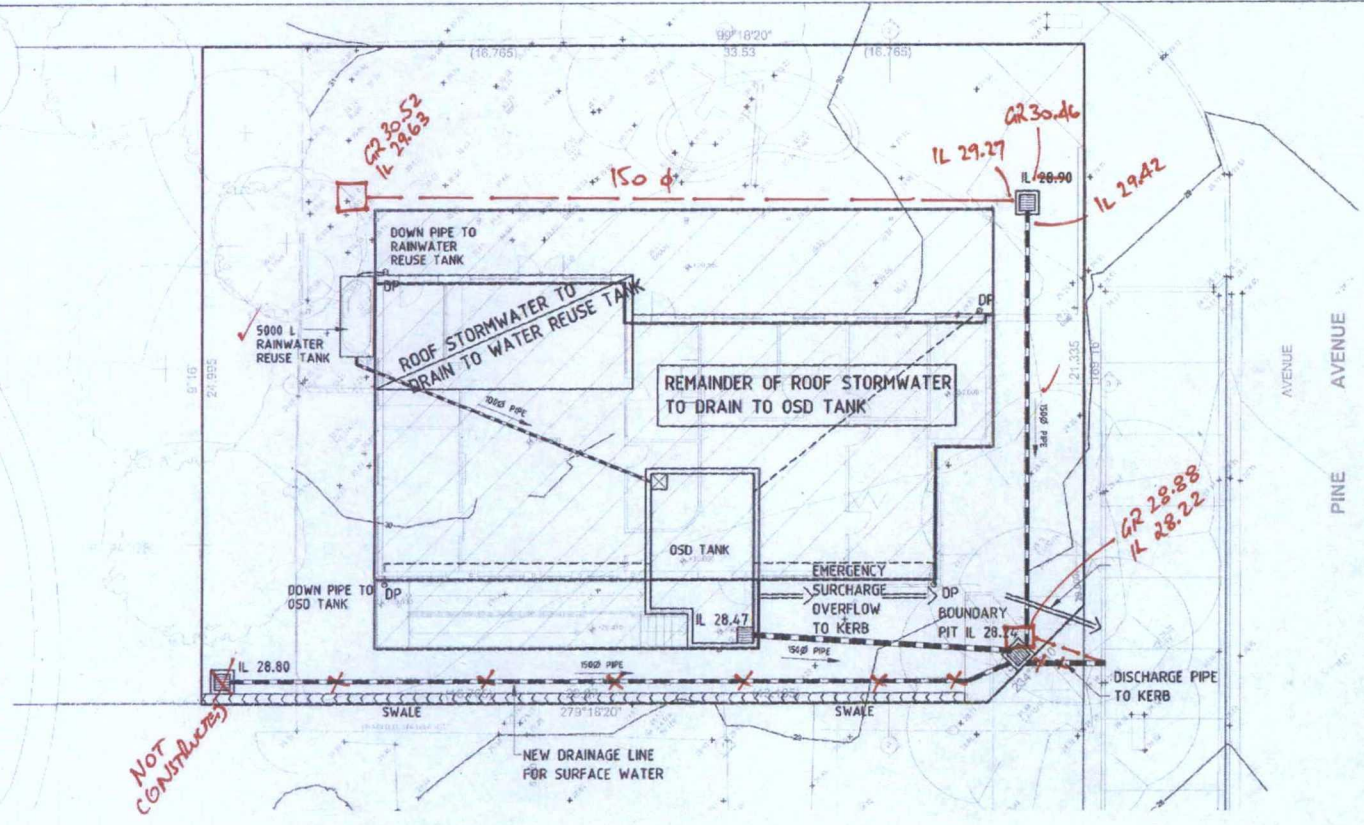
- TOTAL SITE AREA (APPROX.) 828.3 m²
- PERCENTAGE OF SITE BYPASSING OSD 30 %
- POST-DEVELOPED IMPERVIOUS AREA TO OSD 579.8 m²
- CALCULATED ON SITE DETENTION REQUIREMENTS 35.0 m²
- CALCULATED PERMITTED SITE DISCHARGE 25 l/s (REFER DRAINAGE CONCEPT PROPOSAL CALCULATIONS)

DETENTION TANK DETAILS

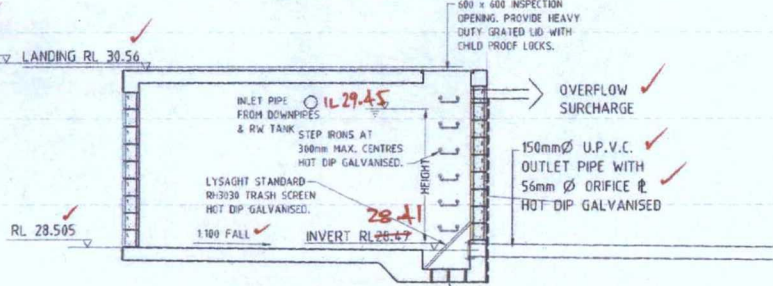
- DESIGN FOR DETENTION TANK BASED ON 1 IN 100 YEAR ARI.
- CONSTRUCT O.S.D. TANK IN ACCORDANCE WITH WARRINGAH COUNCIL'S STANDARD DETAILS.
- REFER TO COUNCIL'S TECHNICAL SPECIFICATION FOR OSD TANK.
- REFER TO COUNCIL'S "GENERAL - OSD & STORMWATER NOTES" FOR INFORMATION.

NOTE

- ALL ROOF & BALCONY WATER IS TO DRAIN INTO ON SITE DETENTION TANK.



LONG SECTION



OSD TANK DETAIL

WORKS AS EXECUTED SURVEY
 MITCHELL LAND SURVEYORS PTY LTD
 ENQUIRIES: 1300 882 960
 ABN: 49 129 632 390
 DETAILS IN RED ARE WORKS AS EXECUTED AS OF 13/6/13.
STEPHEN MITCHELL
 REGISTERED SURVEYOR
 NAME: STEPHEN MITCHELL

INTERNAL DIMENSIONS	INVERT LVL	ORIFICE R SIZE
22.9 m ² AREA x 1.64m H MIN	28.47	56mm
28m ² n x 1.4m H	28.41	✓

REV	DATE	DESCRIPTION
A	13/6/13	FOR CONSTRUCTION CERTIFICATE & CONSTRUCTION

ARCH	JDH ARCHITECTS SUITE 7, 423 HARRIS STREET J.T.P.M. HOWE BMT PHONE: 508 981 9947 FAX: 508 981 9721
PROJECT	BROOKVALE OCCASIONAL CARE CENTRE CORNER FEDERAL PARADE & PINE AVENUE BROOKVALE NSW 2100
DRG	DRAINAGE CONCEPT PROPOSAL

BEKKER
 paul bekker engineering design bureau pty limited
unit 1/17 glasgow street, miranda nsw 2007 c/o 89 100 772 517
 phone: (02) 9653 8744 fax: (02) 9653 8386 email: bekker@bekker.com.au
 postal address: po box 591 miranda, nsw 2005

SCALE	DATE	DRG No.	REV
1:100	DECEMBER 2010	61807 DCP1	A

BEKKER

paul bekker engineering design buro Pty limited

abn 89 118 772 517

po box 591, northbridge, nsw 1560

2/11 rangers road, neutral bay, nsw 2089

telephone 9953 6244

facsimile 9953 6266

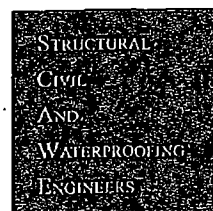
email address bekker@spn.net.au

June 25, 2013

PB/rb 61807

**Warringah Council
725 Pittwater Road
DEE WHY NSW 2099
Atten: Mr Andrew Camarsh**

**Keystone Projects Group Pty Ltd
Unit 3 / 11-21 Underwood Road
HOMEBUSH NSW 2140
Attn: Mr C Dutch**



**RE: STORMWATER CERTIFICATION
CHILD CARE FACILITY
CNR PINE AVE & FEDERAL PDE
BROOKVALE**

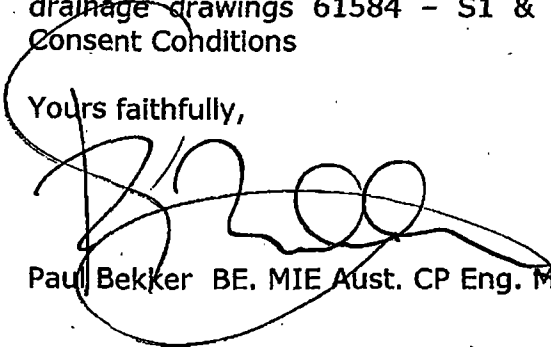
Dear Sir,

We confirm that the stormwater drainage system and rainwater re-use tanks have been designed in accordance Councils Consent Conditions.

Surveyor Mitchell Land Surveyors Pty Ltd have provided as-built drawings of the installed stormwater drainage system and rainwater re-use tanks for this site dated 13th June, 2013.

As such we can confirm that in our opinion the stormwater drainage system and rainwater re-use tanks will perform to the design intent of our stormwater drainage drawings 61584 - S1 & S2 and comply with the intent of Councils Consent Conditions

Yours faithfully,


Paul Bekker BE, MIE Aust. CP Eng. M ACEA

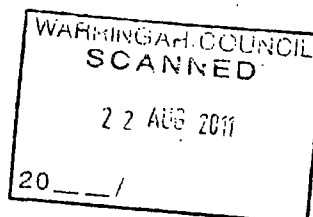




**BLACKETT
MAGUIRE+
GOLDSMITH**

19 August 2011

Warringah Council
Civic Centre, 725 Pittwater Road
DEE WHY NSW 2099



Attention: Mike Chow

Dear Mike,

**REFERENCE: DA NO. DA2011/0247
NO. 9999 PITTWATER ROAD, BROOKVALE
NO. 9998 PITTWATER ROAD, BROOKVALE
CONSTRUCTION CERTIFICATE**

Please find under cover a copy of the Construction Certificate No. CC-11232 and associated documentation for proposed demolition of existing cottage and construction of new occasional Childcare Centre.

We have forwarded a copy of the Construction Certificate together with the approved documentation to Council for its record.

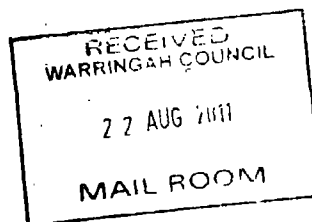
Please also find attached an inspection and certification schedule relevant to this development. The inspection schedule identifies the necessary Statutory Mandatory Critical Stage Inspections that must be undertaken together with other inspections of the progress building works that we will require to be undertaken by our office.

It is the client's responsibility to ensure that our office is contacted with not less than 48 hours notice for our attendance to each of these inspections.

We thank you for your assistance in this matter and should you have any enquiries please do not hesitate to contact me on 9211 7777.

Yours Sincerely,

Jason Storer
Blackett Maguire + Goldsmith Pty Ltd



Address | Suite 2.01,
22-36 Mountain St
Ultimo NSW 2007

Postal | PO Box 167
Broadway NSW 2007
ABN | 18 408 985 851

Contact | Ph: 02 9211 7777
Fax: 02 9211 7774
Email: admin@bmgplusg.com.au



INSPECTION AND CERTIFICATION SCHEDULE

Statutory Mandatory Critical Stage Inspections

The following statutory mandatory critical stage inspections must be undertaken during the construction program.

- After excavation for, and prior to the placement of, any footings.
- Prior to covering of any stormwater drainage connections.
- After the building works has been completed and prior to any Occupation Certificate being issued in relation to the building.

Certification & Documentation

Notwithstanding any inspections undertaken by our office during the construction program, the following list is an *indicative* summary of the certification and or documentation that will be requested by Blackett Maguire + Goldsmith Pty Ltd at the completion of the development:

1.	Occupation Certificate Application Form.
2.	Structural engineers certificate.
3.	Balustrades certificate to comply with the structural loading requirements of AS1170.1.
4.	Certification the carpark as constructed, complies with the architects design.
5.	Glazing certificate to comply with AS1288 - 2006 and AS 2047.
6.	Certification for all wet area waterproof applications in accordance with BCA and AS3740. Certification must also include verification the waterproof application is an accredited product in accordance with Part A2.2 of the Building Code of Australia.
7.	Certification for all landscape works in accordance with the design documentation and the relevant conditions of the development consent.
8.	Identification (setback) and height (floor levels and overall) survey.
9.	Certification of fire hazard indices for all carpet and floor finishes installations in accordance with Specification C1.10 of the BCA.
10.	Certification for all electrical work in accordance with AS3000.
11.	Certification for the installation of fire extinguishers as per AS 2444 - 2001.
12.	Certification for the installation of emergency lighting and illuminated exit signs to AS 2293.1-2005.
13.	Certification for all new mechanical ventilation works to AS1668.2 - 1991.
14.	Final Fire Safety Certificate which is to include all essential fire safety measures outlined in the Fire Safety Schedule issued with the Construction Certificate.
15.	Certification from an appropriate person to the effect that the various floor surfaces and floor finishes throughout the building have been subject to a <i>pendulum test certification</i> (on-site, if necessary) to achieve a slip resistance classification under wet & dry conditions to comply with AS/NZS 4586: 2004 ' <i>Slip Resistance Classification of New Pedestrian Surface Materials</i> '.
16.	Provide an inspection report from Council's Environmental Health Officer certifying the commercial food premise fitout is to the satisfaction of Council.



17.	Confirmation from the builder that the appropriate tactile / Braille signage for persons with a disability has been implemented into the building design in accordance with Specification D3.6 of the Building Code of Australia.
18.	Certification from the builder to the effect that the tread and riser dimensions for each private and public (internal and external) stairway are constant throughout each respective stair flight.
19.	Certification for the installation of the artificial lighting as per AS 1680.0 - 2009.
20.	Certification that the insulation of walls, roof and ceilings is in accordance with Part J1 of the BCA.
21.	Certify the external glazing has been installed in accordance with J2.4 of the BCA with respect to annual total cooling and heating energy use.
22.	Certify the installation of sealing to exhaust fans, roofs, walls & floors and any evaporative coolers have been installed in accordance with J3 of the BCA.
23.	Certify any mechanical ventilation has been installed as per Part J5 of the BCA.
24.	Certify the installation of all internal and external artificial lighting is in accordance with Part J6 of the BCA.
25.	The hydraulic contractor is to certify the hot water system had been installed in accordance with Section NSW Part J7 of the BCA and Section 8 of AS/NZS3500.4.
26.	Compliance with all relevant conditions of the Development Consent.

Compliance with the Building Code of Australia

All building works must be carried out strictly in accordance with the Building Code of Australia 2011 (BCA). Any departure from the deemed-to-satisfy (DTS) requirements of the BCA must have the prior approval of Blakett Maguire +Goldsmith Pty Ltd.



BLACKETT
MAGUIRE+
GOLDSMITH

CONSTRUCTION CERTIFICATE

Pursuant to Part 4A of the Environmental Planning & Assessment Act 1979

CERTIFICATE No.: CC-11232

TYPE: Building Work Subdivision Work

DETERMINATION: Approved

DATE OF DETERMINATION: 19 August 2011

SUBJECT LAND:
Lot & DP Address Lot 1 & 2 DP1141128 No. 9999 Pittwater Road, Brookvale
Lot 1 DP 651395 No. 9998 Pittwater Road, Brookvale

LOCAL GOVERNMENT AREA: Warringah Council

APPLICANT:
Name Mike Chow
Company Warringah Council
Address Civic Centre, 725 Pittwater Road
DEE WHY NSW 2099
Phone/Fax: Ph: (02) 9942 2111 Fax: (02) 9971 4522

OWNER:
Company Warringah Council
Address Civic Centre, 725 Pittwater Road
DEE WHY NSW 2099
Phone/Fax: Ph: (02) 9942 2111 Fax: (02) 9971 4522

DESCRIPTION OF DEVELOPMENT: Demolition of existing cottage and construction of new occasional Childcare Centre.
Note: This Construction Certificate excludes any external ancillary services, structures or civil works required by relevant authorities.

BCA CLASSIFICATION: Class 9b

DEVELOPMENT CONSENT:
Development Application No. DA2011/0247
Date of Determination 15/06/2011

APPROVED PLANS: As listed in Schedule 1

STATUTORY CERTIFICATION:
Work completed in accordance with documentation accompanying the application for the certificate (with such modifications verified by the certifying authority as may be shown on that documentation) will comply with the requirements of the Environmental Planning & Assessment Regulation 2000 as are referred to in section 81A(5) of the Environmental Planning & Assessment Act 1979.

CONDITIONS: There are no conditions pursuant to clauses 144, 187 or 188 of the Regulation.

ACCREDITED CERTIFIER:
Name Jason Storer
Accreditation No. BPB 0394

SIGNATURE:

Date: 19/08/2011

Address | Suite 2.01,
22-36 Mountain St
Ultimo NSW 2007

Postal | PO Box 167
Broadway NSW 2007
ABN | 18 408 985 851

Contact | Ph: 02 9211 7777
Fax: 02 9211 7774
Email: admin@bmplusg.com.au



SCHEDULE 1

SCHEDULE OF DOCUMENTATION

- Architectural Plans prepared by JDH Architects:

Drawing Number	Revision	Date
C-001_B	B	17 August 2011
C-101_B	B	17 August 2011
C-102_B	B	17 August 2011
C-201_B	B	17 August 2011
C-202_A	A	21 June 2011
C-210_B	B	17 August 2011
C-301_B	B	17 August 2011
C-401_A	A	21 June 2011
C-402_A	A	21 June 2011
C-403_A	A	21 June 2011
C-404_A	A	21 June 2011
C-405_A	A	21 June 2011
C-501_A	A	21 June 2011
C-502_A	A	21 June 2011
C-601_B	B	17 August 2011
C-701_B	B	17 August 2011

In conjunction with the approved plans and specifications the following documentation was relied upon in issuing this Construction Certificate:

- Drainage Plans prepared by Paul Bekker Engineering Design Buro Pty Ltd:

Drawing Number	Revision	Date
61807 DCP1	P3	23 February 2011

- Other documents relied upon:

Documentation	Prepared by	Date
Application Form	Warringah Council	21 June 2011
Notice of Commencement & Appointment of Principal Certifying Authority	Warringah Council	15 June 2011
Certification of Electrical Services	Viscona Pty Ltd	20 June 2011
Email correspondence regarding the building has been designed to comply with clauses F1.5 to F1.7, F1.12 & E1.6 of the BCA Report.	JDH Architects	30 June 2011
Fire Engineering Report	Impact Fire Pty Ltd	11 August 2011
Receipt No. 100134212	Warringah Council	10 August 2011
Receipt No. 100130022	Warringah Council	24 June 2011
Remittance Advice No. 000116941	Warringah Council	24 June 2011



Documentation	Prepared by	Date
Design Statement - Architectural	JDH Architects	20 June 2011
Certificate of Design Intent Structural Engineering Consultancy	Paul Bekker Engineering Design Buro Pty Ltd	21 June 2011
Certification of Electrical Services	Viscona Pty Ltd	20 June 2011
Certificate of Design - Hydraulic Services	Marline Newcastle Pty Ltd	20 June 2011
Letter confirmation regarding Noise Impact Assessment Report, car park layout, external roof finish & wheel stops	JDH Architects	Not Dated
Letter correspondence regarding CC drawings	JDH Architects	Not Dated



SCHEDULE 2

CONDITIONS OF CONSTRUCTION CERTIFICATE

The building works approved under this Construction Certificate are subject to the following conditions pursuant to clause/s 144, 187 & 188 of the Environmental Planning & Assessment Regulation 2000.

Nil.



SCHEDULE 3

FIRE SAFETY SCHEDULE

Issued under Clause 168 of the Environmental Planning and Assessment Regulation 2000

OWNER: Warringah Council
ADDRESS: No. 9999 Pittwater Road, Brookvale
No. 9998 Pittwater Road, Brookvale
DEVELOPMENT APPLICATION No.: DA2011/0247
CONSTRUCTION CERTIFICATE No.: CC-11232

The following essential fire safety measures shall be implemented in the whole of the building premises and each of the fire safety measures must satisfy the standard of performance listed in the schedule, which, for the purposes of Clause 168 of the Environmental Planning and Assessment Regulation 2000, is deemed to be the current fire safety schedule for the building.

SCHEDULE

Statutory Fire Safety Measure	Design/Installation Standard	Proposed
Emergency Lighting	BCA Clause E4.4 & AS 2293.1 - 2005	✓
Exit Signs	BCA Clauses E4.5, E4.6 & E4.8 and AS 2293.1 - 2005	✓
Portable Fire Extinguishers	BCA Clause E1.6 & AS 2444 - 2001	✓
Smoke detectors	AS 3786 - 1993	✓