

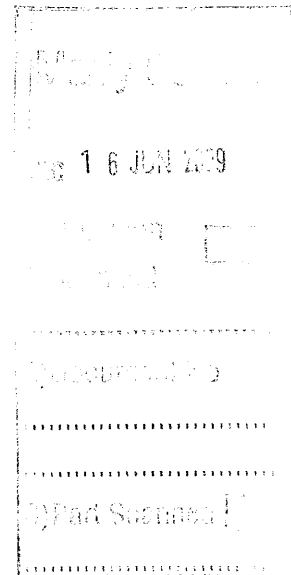
### COUNCIL TRANSMITTAL DOCUMENT

To Marilyn Council

Re Shops 50/31, 197-215 Condamine St, Badgerys

Please find attached the following documentation:

- Complying Development Certificate No. ....
- Construction Certificate No. ....
- Occupation Certificate No. 2009/0058
- Application form and Notice of Commencement
- Approved Drawings & Specifications
- Council lodgement fee to the value of \$30.00
- Payment for Kerb & Gutter Inspection fee .....
- Long Service Levy .....
- Section 94A Contribution
- Home Owners Warranty Insurance
- Fire Safety Certificate
- Fire Safety Schedule
- Ancillary documentation



Regards

Russell O'Brien

Russell O'Brien

Accredited Certifier

Lorus Building Approvals & Certification

13/6/09

CERTIFIED

\$30

R. 618641

16-6-09



**BUILDING APPROVALS AND CERTIFICATION**

ABN 38 907 138 042

Phone: (02) 4648 5701  
Fax: (02) 4648 5702  
Mobile: 0407 221 160  
Email: russell@lbac.com.au

Shop 1, 26 Somerset Ave, Narellan  
PO Box 3144, Narellan DC, NSW 2567

## OCCUPATION CERTIFICATE

Issued under Sections 109C(1)(C) and 109H Environmental Planning & Assessment Act, 1979

**Certificate No.** 2009/0038  
**Type of Certification** Final  
**Applicant** CCD Group  
10/263 Alfred St North Sydney  
Phone: 8920 3215 Fax : 8920 2703  
**Subject Land** Shop No 30 & 31, 197-215 Condamine St  
Balgowlah  
**Description of Building Work** Fitpout of Cafe  
**BCA Classification** 6  
**Date of Determination (for Development Consent or Complying Development)** 24-Apr-2009  
**Principal Certifying Authority** Russell O'Brien  
PO Box 3144, Narellan DC, 2567  
**Accreditation Number** No BPB-0300 - (Building Professionals Board)

### Certification

I Certify that:

- i. I have been appointed as the Principal Certifying Authority under Section 109E of the Act.
- ii. I have taken into consideration the health and safety of the occupants of the building.
- iii. A Development Consent or Complying Development Certificate is in force with respect to the building.
- iv. A Construction Certificate (where required) has been issued with respect to the plans and specifications for the building.
- v. The building is suitable for occupation or use in accordance with its classification under the Building Code of Australia.
- vi. Where required, a final fire safety or interim fire safety certificate has been issued for the relevant part of the building.
- vii. Where required, a report from the Commissioner of Fire Brigades has been considered.

**Signature**

**Date**

15/4/09

# SCHEDULE OF CRITICAL STAGE INSPECTIONS

## CLAUSE 162B ENVIRONMENTAL PLANNING & ASSESSMENT REGULATIONS 2000

**ADDRESS**

Shop No30 & 31, 197-215 Condamine St  
Balgowlah

**DEVELOPMENT CONSENT**

40/09

**CERTIFICATE**

2009/0038

<b>INSPECTION</b>	<b>DATE</b>	<b>CERTIFYING AUTHORITY</b>	<b>RESULT</b>
Commencement ins	11/06/2009	Russell O'Brien (BPB0300)	Satisfactory
Final insp	11/06/2009	Russell O'Brien (BPB0300)	Satisfactory, subject to final documentation

# Heyday Group



Heyday Group Pty Ltd  
ABN 82 121 276 168

ACC Technologies  
Heyday Communications  
Heyday Electrics  
Heyday Fire Technologies

9 Waterloo Road  
North Ryde NSW 2113

Telephone (02) 9855 6666  
Facsimile (02) 9855 6655  
Email info@heyday.com.au

## INSTALLATION CERTIFICATION

PROJECT: THE VILLAGE, BALGOWLAH

ADDRESS: 197-215 CONDAMINE ST, BALGOWLAH 2093

Pursuant to the provisions of Clause A2.2(a)(iii) of the Building Code of Australia Vol 1.

I, ..... Andrew Mitchell ..... of ..... Heyday Group .....  
(Name of Certifier) (Firm)

..... 9 Waterloo Rd, North Ryde, NSW, 2113 .....  
(Address)

hereby certify:-

That the ... ewis system... installed in the building project (SHOP 30/31) complies with:-

- a) The relevant clauses of the Building Code of Australia,  
..... BCA 2006 Clause E4.9.....
- b) The architectural/services/structural plans and specifications approved by the Accredited Certifier and released for construction.
- c) The relevant Australian Standards listed in the Building Code of Australia (Specification A1.3)
- d) The following Australian Standards:..... AS1670 Pt 4 2004 .....
- e) Other practices or standards relied upon for this certification:.... NIL.....
- f) Exclusions: YES/NO..... NIL.....

Full Name of Certifier: ..... Andrew Mitchell.....

Qualifications and experience:..... Electrician.....

Address of Certifier: ..... c/o 9 Waterloo Rd, North Ryde, 2113.....

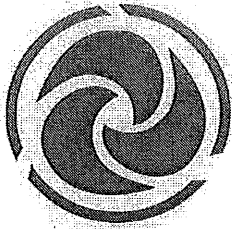
Phone numbers: Bus... 98556666... Fax... 98556691... Mob.... 0416076835...

Signature:  .....

Date..... 4th June 2009.....



A Member Of The Haslie Group



**baratech**  
air conditioning



BARATECH PTY LTD  
ABN: 94 002 621 310  
9 Sefton Road  
THORNLEIGH NSW 2120  
Telephone: (02) 9875 3088  
Facsimile: (02) 9875 4300  
Email: baratech@baratech.com.au  
Gold Lic. No. 19539C

## INSTALLATION CERTIFICATION

PROJECT: THE VILLAGE, BALGOWLAH

ADDRESS: 197-215 CONDAMINE ST, BALGOWLAH 2093

Pursuant to the provisions of Clause A2.2(a)(iii) of the Building Code of Australia Vol 1.

I **Matthew Eaton** of **Baratech Pty Ltd**

**9 Sefton Rd Thornleigh NSW 2120**

hereby certify:-

That the mechanical services for the shop fit out retail area installed in the building project comply with:-

- a) The relevant clauses of the Building Code of Australia,  
AS4254 BCA Spec 1.10  
BCA 2006 J3.5 for DA101/06 BCA 2008 J3.5 for DA314/07  
BCA 2006 J5.2, J5.3, J5.4, J5.5 & NSW J(A)5.2 for DA101/06  
BCA 2008 J5.2, J5.3, J5.4, J5.5, & for DA314/07  
BCA J1.2  
BCA J1.2©  
BCA NSW J(A)5.2 & NSW J8.2
- b) The architectural/services/structural plans and specifications approved by the Accredited Certifier and released for construction.
- c) The relevant Australian Standards listed in the Building Code of Australia (Specification A1.3)  
AS4254  
AS1668.2 - 2002  
AS1668.1 - 1998
- d) The following Australian Standards:
- e) Other practices or standards relied upon for this certification:  
  
Alternative solution report prepared by:  
Defire Ref 20050098 Revision 1.8 dated 08.04.2009
- f) Defire alternative solution report version R1.8
- g) Exclusions: YES/NO NO

Full Name of Certifier: **MATTHEW EATON**

Qualifications and experience: **M. AIRAH, M. ASHRAE, M. CIBSE**

Address of Certifier: **9 Sefton Rd THORNLEIGH NSW 2120**

Phone numbers: **Bus 9875 3088 Fax 9875 4300 Mob 0423 025 896**

Signature: 

Date **4/06/2009**

# INSTALLATION CERTIFICATION / RETAIL TENANCIES

PROJECT: THE VILLAGE, BALGOWLAH

ADDRESS: 197-215 CONDAMINE ST, BALGOWLAH 2093

Pursuant to the provisions of Clause A2.2(a)(iii) of the Building Code of Australia Vol 1.

I.....Justin Geale.....of.....Boone & Willard Plumbing.....  
(Name of Certifier) (Firm)

.....Unit 13 / 5 Meridian Pl. Baulkham Hills.....  
(Address)

hereby certify:-

That the ...Hydraulic services.....(building work/element) installed in the building project  
comply with:-

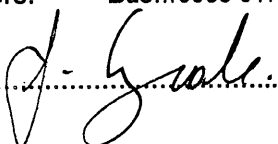
- a) The relevant clauses of the Building Code of Australia,  
.....
- b) The architectural/services/structural plans and specifications approved by the Accredited  
Certifier and released for construction.
- c) The relevant Australian Standards listed in the Building Code of Australia  
(Specification A1.3)
- d) The following Australian Standards:.....AS 3500.....
- e) Other practices or standards relied upon for this certification:.....  
.....
- f) Exclusions: NO.....

Full Name of Certifier: .....Justin Geale.....

Qualifications and experience:.....20 years Licenced Plumber.....

Address of Certifier: Unit 13 / 5 Meridian Pl. Baulkham Hills.....

Phone numbers: Bus...8883 0177.....Fax...9836 4930.....Mob...0419 402 621.....

Signature: 

Date.....25/05/09...

The Village, Balgowlah

Tenancy Handover Schedule

Stockland Shop No.	Tenancy Name
Coles	Coles
Vintage Cellars	Vintage Cellars
Shop K01	Cas Dei Café
Shop K02	
Shop K03	
Shop K04	Norton St
Shop K05	
Shop 1	Veronika Maine
Shop 2/3	Witchery
Shop 4	The Sportscraft
Shop 5	Laura Ashley
Shop 6	Nine West
Shop 7	Lorna Jane
Shop 8	Okaidi
Shop 9	Escape Active Skinbar
Shop 10	Escape Active Skinbar
Shop 11	Neo Nails
Shop 12	Westpac
Shop 13	Mr Minit
Shop 14	Lawrence Dry Cleaners
Shop 15	Moreish Foods
Shop 16	balgowlah seafood
Shop 17	Bakers Delight
Shop 18	Balgowlah Café
Shop 19/20	Adairs
Shop 21	Dick smith
Shop 22	Dick smith
Shop 23	Fab cards & Gifts
Shop 24	Book Shop
Shop 25	29 Dare
Shop 26	Nina,s
Shop 27	Sunday Rose
Shop 28	Flight Centre
Shop 29	Flowers for Everybody
Shop 30/31	La Petite Lorraine
Shop 32/33	Prime Quality Meats
Shop 34	Healthy Life
Shop 35	Sushi Bar
Shop 36	Michels Patisserie
Shop 37	OPSM
Shop 38	3 Mobile
Shop 39	John Brennan Hair
Shop 40	Telstra
Shop 41	EB Games
Shop 42	Kodak Express
Shop 43	Mandarin Massage
Shop 44	Leading Edge
Shop 45/46	Lin & Barrett
Shop 47	Blue Illusion

Shop 48	Eyedonist	
Shop 49	Optus	
Shop 50	Take Away Foods	
Shop 51	Take Away Foods	
Shop 61		Level 1
Shop 62		Level 1
Shop 63/64		Level 1
Shop 65		Level 1
Shop 66		Level 1
Shop 67	Fitness First	Level 1
Shop 68		Level 1
Shop 69		Level 1
Shop 70		Level 1
Shop 71	Centre M'ment	Level 1
Shop 72	Norton St Grocer	
Shop 73	Pharmacy Select	
Shop 75	Supanews	

Note: Fitout durations are calculated based on completion of tenancy fitout by 28/4/09



# INSTALLATION CERTIFICATION

PROJECT: THE VILLAGE, BALGOWLAH

ADDRESS: 197-215 CONDAMINE ST, BALGOWLAH 2093

Pursuant to the provisions of Clause A2.2(a)(iii) of the Building Code of Australia Vol 1.

I, **Anthony Rocca** of **Tyco Fire & Security t/a Wormald**  
 (Name of Certifier) (Firm)

**Unit 1 2-8 South Street Rydalmere 2116**  
 (Address)

hereby certify:-

That the **Fire Sprinklers, Fire Hydrant and Fire Extinguishers** installed in the below tenancies complies with:-

- The relevant clauses of the Building Code of Australia,  
 ..... **E1.5, E1.3 and E1.6** .....
- The architectural/services/structural plans and specifications approved by the Accredited Certifier and released for construction.
- The relevant Australian Standards listed in the Building Code of Australia (Specification A1.3)
- The following Australian Standards: ..... **AS 2118.1-1999, AS 2419.1-2005 & AS 2444-2001**
- Other practices or standards relied upon for this certification: **Defire Alternative Rev 1.8** .....
- Exclusions: **YES/NO** .....

Tenancy No.	Tenancy Name
Coles	Coles
Vintage Cellars	Vintage Cellars
Shop K01	Cas Dei Café
Shop K04	Norton St. Grocer
Shop 1	Veronika Maine
Shop 2-3	Witchery
Shop 4	Sportscraft
Shop 5	Laura Ashley
Shop 6	Nine West
Shop 7	Lorna Jane
Shop 8	Okaidi
Shop 9-10	Escape Skin Bar
Shop 11	La More & Spa
Shop 12	Westpac

Shop 13	Mr Minit
Shop 14	Little's Dry Cleaners
Shop 15	Moorish
Shop 16	Balgowlah Fish Market
Shop 17	Bakers Delight
Shop 18	Café
Shop 19/20	Adairs
Shop 21-22	Dick Smith
Shop 23	Cards & Gifts
Shop 24	Berkerlow Books
Shop 25	Dare
Shop 26	Nina's Homewares
Shop 27	Sunday Rose
Shop 28	Flight Centre
Shop 29	Flowers For Everyone
Shop 30-31	Le Petite Lorraine

Shop 32-33	Craig Cook Meats
Shop 34	Healthy Life
Shop 35	Sushi Bar
Shop 36	Michel's Patisserie
Shop 37	OPSM
Shop 38	3 Mobile
Shop 39	John Brenan
Shop 40	T-Life
Shop 41	EB Games
Shop 42	Kodak
Shop 43	Mandarin Massage

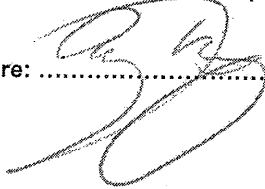
Shop 44	Leading Edge Jewellers
Shop 45-46	Lin & Barrett
Shop 47	Blue Illusion
Shop 48	AV Simon
Shop 49	OptusYes
Shop 50 -51	Roaming Bird
Shop 72	Norton St
Shop 73	Pharmacy Select
Shop 74	Double Bay Clothing
Shop 75	Supanews

Full Name of Certifier: ..... Anthony Rocca.....

Qualifications and experience: ..... Project Manager.....

Address of Certifier: ..... Unit 1 2-8 South Street Rydalmere 2116.....

Phone numbers: Bus...(02) 96388500.....FAX...(02) 9638 8599

Signature:  .....

Date: 28/5/09 .....

12 June 2009

To:

The CCO Group

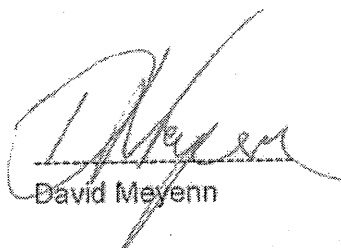
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**CERTIFICATE OF COMPLIANCE**  
**TO THE CCD GROUP**

**LA PETITE PATISSERIE**  
**BALGOWLAH NSW**

This is to certify that all electrical wiring and fittings (as supplied by other) to the above premise have been installed and tested to comply with AS/NZ 2000- 3000:2008

Signed for and on behalf of Colour City Electrical Pty Ltd



David Meyenn

**Director**  
**Colour City Electrical Pty Ltd**

---

Cheque Payment  
RMB 44  
Sussex Lane  
Cudal NSW 2864

Mobile: 0422 221 555  
[colourcityelectrical@bigpond.com](mailto:colourcityelectrical@bigpond.com)

Direct Debit  
Colour City Electrical Pty Ltd  
BSB: 032 023  
Acc: 209 970

12 June 2009

To:

The CCO Group

---

**CERTIFICATE OF COMPLIANCE  
TO THE CCD GROUP**

**LA PETITE PATISSERIE  
BALGOWLAH NSW**

This is to certify that all Exits and Emergency Lights (as supplied by other), were installed and tested in the above premises in accordance with AS2293. 1 2005

Signed for and on behalf of Colour City Electrical Pty Ltd

  
David Meyenn

**Director  
Colour City Electrical Pty Ltd**

---

Cheque Payment  
RMB 44  
Sussex Lane  
Cudal NSW 2864

Mobile: 0422 221 555  
[colourcityelectrical@bigpond.com](mailto:colourcityelectrical@bigpond.com)

Direct Debit  
Colour City Electrical Pty Ltd  
BSB: 032 023  
Acc: 209 970

# ABBOT DESIGN PTY LTD

A.B.N 29091 868 567

Consulting Civil, Structural, Hydraulic & Design Engineers  
Project Managers

---

12 June 2009

The CCD Group  
Unit 10, 263 Alfred Street  
NORTH SYDNEY NSW 2060

## CERTIFICATION

Re: Shopfront, Ceiling and Overhead Signage  
For: La Petite Lorraine, Shop 30/31, Stockland Balgowlah

Dear Sir,

This is to certify that a Structural Engineering inspection at the above shop has been carried out on Friday, 12 June 2009.

The shop is occupied by La Petite Lorraine. This certificate does not cover other elements of the shop fit out where carried out by others.

Certification is hereby given to the structural adequacy of the work carried out.

Yours faithfully,



M. J. McDonald  
Accredited Structural Certifier  
Chartered Structural Engineer  
N.P.E.R.3. Reg.No.393553

---

**Sydney**  
419 Pacific Highway  
Asquith NSW 2077  
PO Box 651 Hornsby NSW 1630  
Tel: (02) 9476 5308 Fax: (02) 9476 6152

**Brisbane**  
PO Box 694  
Stones Corner QLD 4120  
Mobile: 0414 355 185

**Newcastle**  
6 Proctor Street  
Tighes Hill NSW 2297  
Email: admin@abbotdesign.com.au

**Melbourne**  
2B Heatherlea Crescent  
East Keilor VIC 3033  
PO Box 312 Niddrie VIC 3042  
Tel: (03) 9331 1859 Fax: (03) 9331 2049



**WARATAH FIRE PROTECTION SERVICES**  
BUSINESS REGISTRATION NO. V6444229  
ABN 52 765 630 711

11 June 2009

The C C D Group Pty Ltd  
Unit 10,263 Alfred Street  
North Sydney NSW 2060  
Fax: 8920 2703

Re: Shop 31,Level 1,StockJand Developement,Condamine St.,Balgowlah  
Purchase Order No.11905

This letter is to Certify that the Fire Extinguisher installed today  
at the above address is in accordance with E1.6 of the  
Building Code of Australia.

As NEW AS 2444

as shown on the Manly Council Final Fire Safety Statement.

Yours faithfully

A handwritten signature in cursive script that reads "Richard Crennan".

Richard Crennan

& mail one to: Commissioner of NSW Fire Brigades  
Fire Safety Division  
Locked Bag 12,Lakemba NSW 2195



28/3MOSMAN STREET  
MOSMAN BAY NSW 2088

TEL: (02) 9968 4723

FAX: (02) 9968 4723

ALL CORRESPONDENCE TO: PO BOX 441, SPIT JUNCTION NSW 2088



# FORM 15 FINAL/INTERIM FIRE SAFETY CERTIFICATE

Environmental Planning and Assessment Act Regulation 1994  
Clause 80E and 80F

Type of Certificate:  Interim  Final

Certificate: I \_\_\_\_\_  
(Name Owner/Agent)

of \_\_\_\_\_  
(Address)

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 (copy attached) for the building for which the certificate is issued.

(b) the information contained in this certificate is, to the best of my knowledge and belief, true and accurate.

Identification of Building: Street: Condamine

Side of Street: West

Nearest Cross Street: Sydney Road

House/Unit No. or Name: Shop 31

Particulars of Building: Whole/Part: \_\_\_\_\_  
(Description of Part where applicable)

Date of Assessment: \_\_\_\_\_

Owner's Details: Name: \_\_\_\_\_

Address: \_\_\_\_\_

### Essential Fire Safety Measures:

Measure	Standard of Performance
• Portable Fire Extinguisher	AS 2444
• 3.5KgCO2 Fire Extinguisher	AS 2444
•	
•	
•	
•	

Date of Certificate: \_\_\_\_\_

Signature: \_\_\_\_\_  
(Owner/Agent)

## NOTES FOR COMPLETING INTERIM/FINAL FIRE SAFETY CERTIFICATE

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1. An interim fire safety certificate or a final fire safety certificate is required before:
- an interim occupation certificate can be issued to allow a partially completed new building (including an altered portion of, or an extension to, a new building) to be occupied or used, or
  - an interim occupation certificate can be issued to allow a change of building use for part of an existing building.

A final fire safety certificate is required:

- before a final occupation certificate can be issued to allow a new building (including an altered portion of, or extension to, a new building) to be occupied or used, or
- before a final occupation certificate can be issued to allow a change of building use for an existing building, or
- in accordance with a fire safety order given by a Council.

An interim fire safety certificate is issued for part of the building and may deal only with those essential fire measures appearing on the most recent fire safety schedule (see note 3) relevant to the part of the building for which an interim occupation certificate will be sought.

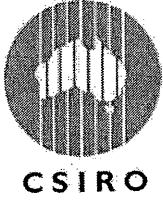
A final fire safety certificate must deal with all essential fire safety measures appearing on the most recent fire safety schedule (see note 3), subject to the following.

An interim fire safety certificate or a final fire safety certificate need not deal with those essential fire safety measures which have been the subject of some other final fire safety certificate or annual fire safety statement within the previous 6 months, unless the person or authority responsible for determining the relevant development consent, complying development certificate, construction certificate or fire safety order, has specified otherwise in the schedule. (See also Note 3)

2. The person who carried out the assessment:
- must inspect and verify the performance of each fire safety measure being assessed, and
  - in the case of a (interim or final) fire safety certificate for a new building (not an alteration to, or enlargement or extension of an existing building) must test the operation of each item of fire safety equipment installed in the building.
3. The relevant essential fire safety measures are those specified in the most recent fire safety schedule, attached to one of the following:
- development consent for a change of building use,
  - complying development certificate for the erection of a building or a change of building use,
  - construction certificate for proposed building work, including building work associated with a change of building use, or
  - a fire safety order.

The fire safety schedule will also identify the required standard of performance for each essential fire safety measure.





# 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

2 March 2007

Our Ref. ES13 / 458 03/0212

## TEST REPORT No. SY1246

Requested by: Classic Ceramic (Importers) Pty Ltd  
on (date): 28 February 2007  
Manufacturer: Fondovalle  
Product Desc.: Loft 60 x 60 cm

Sampling details:  
Where: Delivered  
Date: 2 March 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 3 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 slider)		
	Mean BPN:	44	X

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: SY1246  
ISSUE DATE: 2 March 2007  
MANUFACTURER: Fondovalle  
PRODUCT DESC: Loft 60 x 60 cm

## 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: 2 March 2007

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

Pendulum Friction Tester: Stanley (S/N: 9234, calibrated 13/6/05)  
Test conducted by: Hugh McMullen

	Specimen				
	1	2	3	4	5
Last 3 swings	47	43	44	45	46
	47	42	43	44	45
	47	42	42	44	45
Averages	47	42	43	44	45

Mean BPN : 44

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).

Comments:

This tile has an average BPN of 44. According to HB 197, Table 2 this means that the Fondovalle Loft tile is a Class X and the "contribution of the floor surface to the risk of slipping when wet" is "moderate".



## 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>

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REPORT NO: 1246  
ISSUE DATE: 2 March 2007  
MANUFACTURER: Fondovalle  
TILE DESC: Loft 60 x 60 cm

Page 3 of 3

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Date and Place 2 March 2007, North Ryde, NSW

Name, Title and Digital Signature:

A circular stamp containing a handwritten signature that reads 'Hugh McMullen'. Below the signature, the word 'CSIRO' is printed in a stylized font.

CSIRO

**HUGH MCMULLEN**  
Laboratory Manager

Tel: 61 2 94905414  
Fax: 61 2 94905555  
Email: [Hugh.McMullen@csiro.au](mailto:Hugh.McMullen@csiro.au)

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

---

PR:M020307-17:01:54



# 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: 1246  
ISSUE DATE: 2 March 2007  
MANUFACTURER: Fondovalle  
PRODUCT DESC: Loft 60 x 60 cm

Addendum

## DETERMINATION OF Rz SURFACE ROUGHNESS

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

Test Date: 2 March 2007

### RESULTS

Location: Slip Resistance Laboratory

#### Rz values

1	37.8
2	29.3
3	20.9
4	29.0
5	41.3
6	28.6
7	31.1
8	53.3
9	33.0
10	28.9

**Surface Roughness (Rz) mean = 33.3 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.



# Industrial Research Services

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Registered Testing Authority - CSIRO

21 May 2008

Our Ref. EN13 / 458.1 03/0212

## TEST REPORT No. 4394.01s

Requested by: Classic Ceramics Importers Pty Ltd  
on (date): 15 May 2008  
Manufacturer: Fondovalle  
Product Desc.: Loft Amsterdam  
300x600

Sampling details:  
Where: Delivered  
Date: 16 May 2008  
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 4 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 slider)		
	Mean BPN:	42	X [HIGH*]
AS/NZS 4586:2004	Slip resistance classification of new pedestrian surface materials, Appendix D: OIL-WET Ramp		
	Mean overall acceptance angle:	14.3°	R 10 [MEDIUM*]

\* = CSIRO classification

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.



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## 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: 20 May 2008

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

Pendulum Friction Tester: Munro-Stanley (S/N: 0312, calibrated 01/03/07)  
Test conducted by: Gerald Fisher

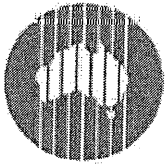
	Specimen				
	1	2	3	4	5
Last 3 swings	42	43	42	42	40
	42	42	42	42	40
	41	42	41	42	40
Averages	42	42	42	42	40

Mean BPN : 42

CLASS :

X [HIGH\*]

\* = CSIRO classification



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## 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: 20 May 2008

Location: Slip Resistance Laboratory

Sample Unfixed

Joint width: 0 mm

Surface structure:  Smooth  
 Profiled  
 Structured

### RESULTS

Mean overall acceptance angle: 14.3°

Displacement space: not tested

### CLASSIFICATION:

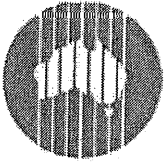
Slip Resistance Assessment Group:

R 10 [MEDIUM\*]

Displacement Space Assessment Group:

-

\* = CSIRO classification



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Date and Place 21 May 2008, Highett, Vic

Name, Title and Digital Signature:



**GERALD FISHER**  
Laboratory Technician  
Tel: 61 3 92526414  
Fax: 61 3 92526244  
Email: Gerald.Fisher@csiro.au

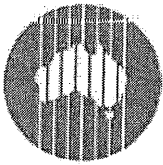
**\*CSIRO recommended classification of Slip Resistance as determined from:  
AS/NZS 4586: 2004 Slip Resistance Classification of New Pedestrian Surface Materials (Appendices A & D).**

Wet Pendulum Class	BPN 4S Rubber	CSIRO Class LOW	CSIRO Class MEDIUM	CSIRO Class HIGH
V	>54	54-57	58-61	>61
W	45-54	45-48	49-51	52-54
X	35-44	35-38	39-41	42-44
Y	25-34	25-28	29-31	32-34
Z	<25	<18	18-21	22-25
Oil Wet Ramp Class	Angle (degrees)	CSIRO Class LOW	CSIRO Class MEDIUM	CSIRO Class HIGH
R9	≥6 to <10	≥6 to 7.5	7.6 to 9	9.1 to 9.9
R10	≥10 to <19	≥10 to 12	12.1 to 15	15.1 to 18.9
R11	≥19 to <27	≥19 to 21	21.1 to 24	24.1 to 26.9
R12	≥27 to <35	≥27 to 29	29.1 to 32	32.1 to 34.9
R13	≥35	≥35 to 36	36.1 to 38	≥38.1

This table should not be read or relied upon without reference to the CSIRO/Standards Australia publication:  
AS/NZS 4586 Slip Resistance Classification of New Pedestrian Surface Materials (Appendices A & D).

CSIRO has categorized the AS4586 classifications into sub-groups Low, Medium & High. The slip resistance test classification is still determined according to AS 4586 Australian Standard (Appendices A & D). The added information of Low, Medium and High allows professionals to make a better judgement of pedestrian floor requirements.





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Addendum

### DETERMINATION OF Rz SURFACE ROUGHNESS

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

Test Date: 20 May 2008

#### RESULTS

Location: Slip Resistance Laboratory

#### Rz values

1	28.4
2	29.7
3	32.3
4	37.8
5	52.0
6	49.1
7	26.0
8	27.6
9	31.3
10	42.2

**Surface Roughness (Rz) mean = 35.6 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.

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