

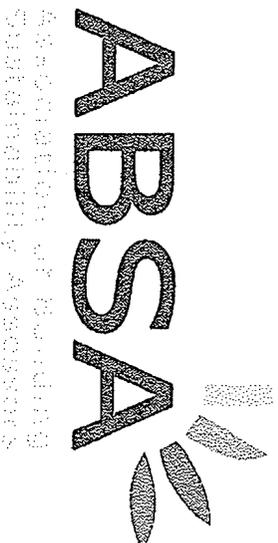
Assessor Certificate

Multiple Dwellings

Certificate Version 6.1. Prior versions not valid after 1 March 2006

Issued in accordance with

BASIX Thermal Comfort Simulation Method.



Assessor

Name: Barry Cotten Company: Chalmers Paige Pty Ltd ABSA : 20470

Address: 6 / 12 Tryon Road Lindfield

Phone: 1300671144 Fax: Email: barry@chalmerspaige.com.au

Declaration of interest: None

Client

Name: Company: Mackenzie Architects Pty Ltd

Address: 4/3 The Postern Castlecreg

Phone: Fax: Email:

Project

Address: 1 - 5 The Crescent Yagoona

Assessment As above LGA: Bankstown

Date: 8/12/2010 File ref: 10125 Software: Accurate Version: 1.1.4.1

Documentation

All details, upon which this assessment has been based, are included in the project documentation that has been stamped and signed by the Assessor issuing this certificate, as identified below.

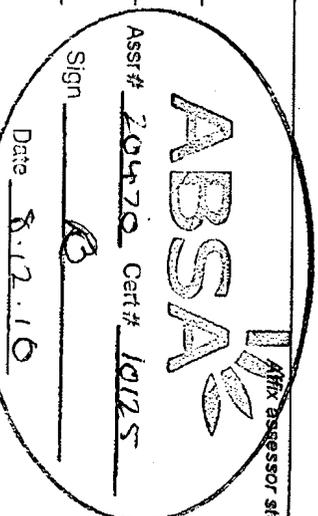
Thermal Performance Spec:
Attached, Affixed to drawings Page 1

Drawings: (Title, Ref. Revision, Issue date, etc)

SK01 - SK07

Building Specifications: (Title, Ref.#, Revision, Issue date, etc)

SK01



ABS SA Assessor Certificate Assessor 20470 Certificate 97584966 Issued: 8/12/2010

Thermal Performance Specifications

Page 1 of 3

Unit number(s)	Floor area (M ²)		Predict. loads (MJ/M ² /y)		Concessions	Qualify for ventilation bonus
	Cond.	Uncond.	Heat	Cool (Sens & Lat)		
1, 7, 13	90.88	6	39	21	None	No
2, 8, 14, 20,	90.50	0	15	19	None	No
3, 9, 15, 21, 27,	87.79	6	8	19	None	No
4, 10, 16, 22, 28,	92.24	0	2	23	None	No
5, 11, 17, 23, 29,	90.91	0	2	23	None	No
6, 12, 18, 24, 30	84.72	6	19	20	None	No
19,	56.35	6	54	19	None	No

Assessor : 20470

Certificate: 87584966

Issued: 8/12/2010

Thermal Performance Specifications

These are the Specifications upon which the Certified Assessment is based. If details included in these Specifications vary from other drawings or written specifications, these Specifications shall take precedence. If only one specification option is detailed for a building element, that specification must apply to all instances of that element for the project. If alternate specifications are detailed for a building element, the location and extent of alternate specifications must be detailed below and / or clearly indicated on referenced documents

Windows	Product ID	Glass	Frame	aluminium	U value	SHGC	Area m ²	Detail
		generic						

Skylights	Product ID	Glass	Frame	aluminium	U value	SHGC	Area m ²	Detail
Generic								

Window and skylight U and SHGC values, if specified, are according to NFRC. Alternate products or specifications may be used if their U value is lower, and the SHGC value is less than 10% higher or lower, than the U and SHGC values of the product specified above.

External walls	Construction	Insulation	Colour - solar abs.	Detail
	Masonry			

Internal walls	Construction	Insulation	Detail
	Masonry		

Floors	Construction	Insulation	Covering	Detail
	Concrete			

Ceilings	Construction	Insulation	Detail
	Concrete	None	
	Gyprock	R2.5	

Roof	Construction	Insulation	Colour - solar abs.	Detail
	Colourbond	Sarking		

Window cover	Internal (curtains)	External (awnings, shutters, etc)
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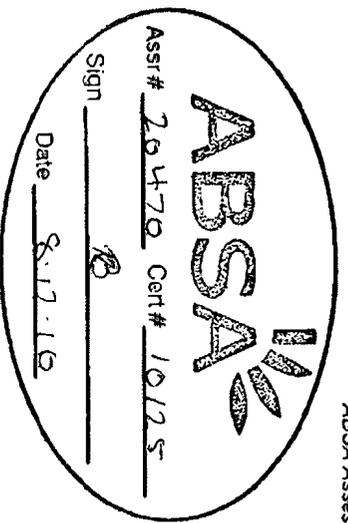
Fixed shading	Eaves (width - inc. gutters, h't above windows)	Verandahs, Pergolas (type, description)
	Balcony	

Overshadowing	Overshadowing structures	Overshadowing trees
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Orientation, Exposure, Ventilation and Infiltration

ABSA Assessor stamp

Orientation of nominal north:	315
Terrain category:	Suburban
Roof ventilation:	None
Cross ventilation:	None
Subfloor:	None
Living area open to entry:	No
Doors separate living areas:	No
Stair open to heated areas:	No
Seals to windows and doors:	Yes
Exhaust fans without dampers:	No
Ventilated skylights:	No
Open fire, unflued gas heat:	No
Vented downlights:	No
Wall and ceiling vents:	No

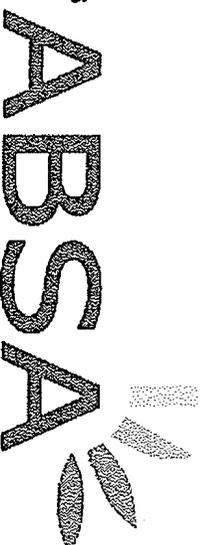


Assessor Certificate

Single Dwelling

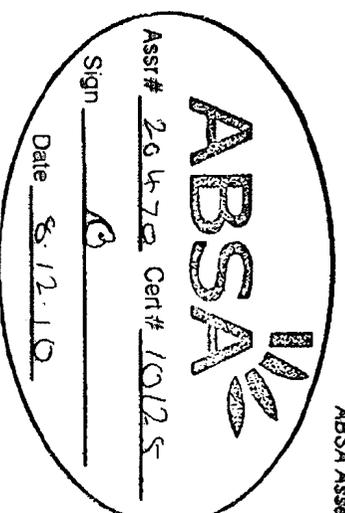
Certificate Version 6.1.1. Prior versions not valid after 1 March 2006

Issued in accordance with the requirements of
BASIX THERMAL COMFORT - Simulation Method



Assessor	Barry Cotten	Company: Chalmers Paige PL	Assr #:	20470				
Name:	Barry Cotten	Company: Chalmers Paige PL	Assr #:	20470				
Address:	P. O. Box 42 LINDFIELD NSW 2070							
Phone:	(02) 9416 0684	Fax:	Email: barry@chalmersp Paige.com.au					
Declaration of Interest:	None							
Client								
Name:	Company: Mackenzie Architects							
Address:	4 / 3 The Postern CASTLECRAG NSW 2068							
Phone:	Fax:	Email:						
Project								
Address:	1 / 1-5 The Crescent YAGOONA NSW 2199							
Lot / DP:	/	LGA:						
Applicant:								
Assessment								
Date:	6/12/2010	Job ID:	1016	Filename:	10125	Run #	1	
Software:	AccuRate	Version:	1.1.4.1	Climate Zone:	56			
Referenced documents								
<i>All details, upon which this Assessment has been based, are included in the project documentation which has been stamped and signed by the Assessor issuing this Certificate, as detailed below:</i>								
Thermal Performance Specification / Commitments attached and affixed to drawings, page:	SK01							
Drawings:	SK01 - SK07							
Specifications:	Only specifications, detailed on Drawings identified above, have been referenced							
ABS A Assessor Certificate Assessor # 20470 Certificate # 87584966 Issued: 08-Dec-10								
THERMAL COMFORT - Simulation Method								
<i>The details must be entered into your BASIX Assessment</i>								
Area calculations (M2)								
Net Conditioned Floor Area	91	Net Unconditioned Floor Area						6
Concessions / Ventilation Bonus								
Eligible Concessions:	None							
The dwelling has the required shading to qualify for BASIX cross ventilation bonus: N/A								
Predicted annual energy loads								

Heating:	39
Cooling:	21
(sensible + latent)	
Total:	60



ABSA Assessor Certificate

Assessor # 20470

Certificate # 87584966

Issued: 08-Dec-10

Thermal Performance Specifications - BASIX THERMAL COMFORT - Simulation Method

These are the Specifications upon which the Certified Assessment is based. If details included in these Specifications vary from other drawings or written specifications, these Specifications shall take precedence. If only one specification option is detailed for a building element, that specification must apply to all instances of that element for the project. If alternate specifications are detailed for a building element, the location and extent of alternate specifications must be detailed below and / or clearly indicated on referenced documents.

Windows	Product ID	Glass	Frame	U value	SHGC	Area M2	Detail
Generic		Single clear	Aluminium				

Skylights	Product ID	Glass	Frame	U value	SHGC	Area M2	Detail
Generic							

Any U and SHGC values specified on Certificates issued after 1 May 2007 are according to NF-RC. All values prior to this date are ANAC. Alternate products may be used if their U value is lower and the SHGC value is less than 10% higher or lower.

External walls	Construction	Insulation	Colour - Solar absorptancy	Detail
Cavity Brick	None		Medium - SA 0.475 - 0.7	

Internal walls	Construction	Insulation	Detail
Brick plastered	None		

Floors	Construction	Insulation	Covering	Detail
Concrete	None		None	

Ceilings	Construction	Insulation	Detail
Plasterboard	R2.5		
Concrete	None		

Roof	Construction	Insulation	Colour - Solar absorptancy	Detail
Metal Deck	Foil (Sisalation)		Medium - SA 0.475 - 0.7	

Window cover	Internal (curtains)	External (awnings, shutters, etc)
Holland blinds		None

Fixed shading	Eaves (width - inc. gutters, height above windows)	Verandahs, Pergolas (type, description)
0	250	Balconies

Overshadowing Overshadowing structures Overshadowing trees

ABSA Assessor stamp

Orientation, Exposure, Ventilation and Infiltration	
Orientation of nominal north elevation	350
Terrain category	Suburban
Roof ventilation:	Unventilated
Cross ventilation:	None
Subfloor ventilation:	Enclosed
Living area open to entry:	No
Living areas separated by doors:	No
Stair open to heated areas:	No
Weather seals to windows and doors:	Yes
Exhaust fans without dampers:	No
Ventilated skylights:	No
Open fireplace or unflued gas heater:	No
Vented downlights:	No
Wall and ceiling vents:	No



Assessor # 20470

Certificate # 87584966

Issued: 08-Dec-10

Thermal Performance Specifications

These are the Specifications upon which the Certified Assessment is based. If details included in these Specifications vary from other drawings or written specifications, these Specifications shall take precedence. If only one specification option is detailed for a building element, that specification must apply to all instances of that element for the project. If alternate specifications are detailed for a building element, the location and content of alternate specifications must be detailed below and / or clearly indicated on referenced documents.

Windows Product ID Glass Frame U value SHGC Area M Detail
Generic Single clear Aluminium

Skylights Product ID Glass Frame U value SHGC Area M Detail
Generic

Any U and SHGC values specified on Certificates issued after 1 Mar 2007 are according to NRC. All values prior to this date are AAC. Alternate products may be used if their U value is lower, and the SHGC value is less than 10% higher or lower.

External walls Construction Insulation Colour Solar absorptance Detail
Cavity Brick None Medium SA 0.475 - 0.7

Internal walls Construction Insulation Detail
Brick plastered None

Floors Construction Insulation Covering Detail
Concrete None

Ceilings Construction Insulation Detail
Plasterboard R2.5
Concrete None

Roof Construction Insulation Colour Detail
Metal Deck Foil (Seralation) Medium SA 0.475 - 0.7

Window cover Internal (curtains) External (awnings, shutters, etc)
Holland blinds None

Fixed shading Eaves (width - inc. gutters, height above windows) Verandahs, Pergolas (type, description)
0 290 Balconies

Overshadowing Overshadowing structures Overshadowing trees

Orientation, Exposure, Ventilation and Infiltration
Orientation of nominal north: 350 Living area open to eaby: No Ventilated skylights: No
Terrain category Suburban Living areas separated by doors: No Open fire or unfired gas heater: No
Roof ventilation: Unventilated Stair open to heated areas: No Vented downlights: No
Cross ventilation: None Seals to windows and doors: Yes Wall and ceiling vents: No
Subfloor ventilation: Enclosed Exhaust fans without dampers: No

