

Energy Rating Requirements For Residential Buildings Assessments - Advice Comprehensive Reports - Section J Reports Deemed To Satisfy Reports -

Thermal Performance Assessment Report

Client: Greg & Alison Lord

Job Address: 4 Florida Ave,

Beaumaris VIC 3193



Thermal Performance Assessment

ADDRESS: 4 Florida Ave, Beaumaris Vic 3193

Table of Contents

0.0	Cover Page	Page 1
0.0	Contents Page	Page 2
1.0	FirstRate5 Compliance Certificate	Page 3-12
2.0	Energy Efficiency Notes	Page13-15

Document Record

Issue	Date	Description
A	05.02. 2015	Akritidis (Proglip Building 1 Consultants
В	13.05.2015	
C	18.05.2015	Final FirstRate5 Compliance Permit No.: 20150189/0 Issoc 1119:29:02/2015
	energy rating	Ari Akritidis BS-U 1573 INSPECTION BOOKINGS: 95682992
JMK E	NERGY	

Certificate Number: 3XUZ2Z5J0S

Date of Certificate: 18 Feb 2015

★ Star rating: 6



Assessor details

Accreditation number:	VIC/BDAV/10/0254
Name:	MARY KARAVASIL
Organisation:	Jmk Energy Rating
Email:	jmkenergy@iprimus.com.au
Phone:	03 9589 4407
Declaration of interest: Software: AAO:	Employed by designer of the building FirstRate5: 5.2.0 (3.13) BDAV

Overview

Dwelling details

Net floor area (m²)

Conditioned:

Garage:

TOTAL:

Unconditioned:

Plan documents

Plan ref/date:

Address: Suburb:	4 FLORIDA AVE, BEAUMARIS				
State:	VIC	Postcode:	3193		
Type:	New Home	NCC Class:	Class 1a		
Lot/DP		NatHERS			
number:	-	climate zone:	62		
Exposure:	suburban				



	ages for details)	Ceiling penet (see following pag details)	
Construction:	Wall: Brick Venner & Block Work		
	Roof: Flat Metal Deck & Skillion	Sealed:	70
	Floor: Concrete Slab on Ground	Unsealed:	0
Insulation:	Wall: 90mm R2.5 & R2.7 Sound Ins	TOTAL:	70
	Roof: R5 + R1.5 BLANKET		
	Floor: Underslab and Edge Slab	Principal downlig	ght type:
Glazing:	ALUM Thermally Broken		
5	DOUBLE GLAZED		

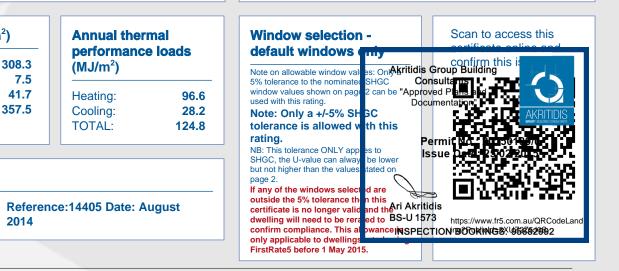
**NOTE: This total is the maximum number of ceiling penetrations allowed to a ceiling (under a roof) for this certificate. If this number is exceded in construction then this certificate IS NOT VALID and a new certificate is required. Loss of ceiling insulation for the penetrations listed has been taken into account with the rating.

70

70

LED

0



Certificate Number: 3XUZ2Z5J0S

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Prepared by: Jmk Design & Contruction Pty Ltd



Permit No.: 20150189/0 Issue Date: 25/02/2015

Ari Akritidis BS-U 1573 INSPECTION BOOKINGS: 95682992



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Building Features

Windows type and performance value						
Window ID	Window type	U-value	SHGC			
ATB-005-03 B	Al Thermally Broken A DG Argon Fill High Solar Gain low-E -Clear	2.91	0.44			
ALM-002-03 A	Aluminium B SG High Solar Gain Low-E	5.4	0.58			
ATB-006-03 B	Al Thermally Broken B DG Argon Fill High Solar Gain low-E -Clear	2.9	0.51			

Windows schedule

Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Zone name	Outdoor shade
ATB-005-03 B	W7	2400	2999	W	Studio	No
ATB-005-03 B	D12	2400	819	S	Laundry	No
ALM-002-03 A	W3A	2100	1499	Ν	Study	No
ALM-002-03 A	W4	2100	450	Ν	Study	No
ALM-002-03 A	W3B	2100	399	W	Study	No
ATB-006-03 B	W5	2400	2999	E	Hallway	No
ATB-006-03 B	W6	2400	2235	S	Hallway	No
ALM-002-03 A	W2A	2100	1500	N	Bedroom 1	No
ATB-005-03 B	W1A	2100	1650	N	Bedroom 1	No
ALM-002-03 A	W1B	2100	750	Ν	Bedroom 1	No
ALM-002-03 A	2B	2100	749	E	Bedroom 1	No
ALM-002-03 A	W8	600	3199	E	Kitchen	No
ATB-005-03 B	W9	2100	749	E	Kitchen	No
ATB-005-03 B	W10	2100	2399	E	Bedroom 2	No
ATB-005-03 B	W11	2100	1999	E	Bathroom	No
ATB-005-03 B	W12	1000	899	E	WC to Bedrooms	No
ATB-005-03 B	W13	2100	2399	E	Bedroom 3	No
ATB-005-03 B	W14	2100	2399	W	Bedroom 4	No
ATB-006-03 B	D25	2700	4500	Ν	Media Room	No
ATB-006-03 B	D13 STACKER	2700	4000	W	Liv ing Dining Area	No
ATB-006-03 B	D14 STACKER	2700	4000	W	Akritidis Group Building	No
ATB-005-03 B	BIFOLDS D8	2700	3499	Ν	"Approved Plans and Living Diningoouផ្អែ@ntation"	No
ATB-006-03 B	W20A	325	1830	N	Living Dining Area	
ATB-006-03 B	W20B	325	970	N	Living Dining Remit No.: 20	150189/0 /02/2015
ATB-006-03 B	W21	1100	4000	SW	Living Dining Area	No
ATB-006-03 B	W22	800	4000	SW	Living Dining Area	No
ALM-002-03 A	W19b	2400	1100	W	Ari Akritidis Bathroogs-U 1573	No
ATB-005-03 B	D4	2400	800	W	Ba throor NSPECTION BOOKING	Si 95682992

Certificate Number: 3XUZ2Z5J0S

Date of Certificate: 18 Feb 2015

★ Star rating: 6



Building Features

ALM-002-03 A	W19a	2400	2000	S	Bathroom 1	No
ALM-002-03 A	W15	2400	599	W	Hallway to bedrooms	No
ALM-002-03 A	W16	2400	600	W	Hallway to bedrooms	No
ALM-002-03 A	W17	2400	600	W	Hallway to bedrooms	No
ALM-002-03 A	W18	2400	599	W	Hallway to bedrooms	No
ATB-005-03 B	D1	2400	2000	N	Entry foyer	No
ATB-006-03 B	W26	400	3050	W	Entry foyer	No
ATB-006-03 B	W25	400	2000	S	Entry foyer	No
ATB-006-03 B	W24	400	3050	E	Entry foyer	No
ATB-006-03 B	W23	400	2000	N	Entry foyer	No

Roof windows and skylight type and performance value

ID	Window type	U-value	SHGC
DG-Generic-02 A	Clear AI DG DEFAULT ROOF WINDOW System 02	4.22	0.72

Roof window and skylight schedule

ID	Roof window/ skylight no.	Area (m ²)	Orientation	Zone name	Outdoor shade	Indoor shade/ diffuser
DG-Generic-02 A	Element 3	1.6	NE	Hallway to bedrooms	None	None

External wall type Insulation Wall wrap Туре 1:150170 - Double Brick No 2:150170 - DULUX EXSUULITE 100mm Expanded Polystyrene Clad Glass fibre batt: R2.5 (R2.5) Yes 3: 150170 - DULUX EXSUULITE 100mm **Expanded Polystyrene Clad** Glass fibre batt: R2.5 (R2.5) Akritidis Group Building 4 : 150170 - Internal Sound Plasterboard Stud **Consultants** g/m3) (Reproved Plans and Wall 2x16PB Glass fibre batt (k = 0.044 density = 12 Documentation" e foam (k = 0.04) (R2.0) 5: 150170 - Brick Veneer Glass fibre batt: R2.5 (R2.5);Polyethyler 6: 150170 - CONCRETE BLOCK 90 Glass fibre batt: R2.5 (R2.5);Polyethyler e foam (k = 0.04) (R2.0) Permit No.: 20150189/0 e foam (k = 155,02) Date: (25/02/2015 7: 150170 - CONCRETE BLOCK 90 Glass fibre batt: R2.5 (R2.5);Polyethyler 8: 150170 - Brick Veneer + CORTEN Glass fibre batt: R2.5 (R2.5);Polyethyler e foar (k = 0.04) (R2.0) Yes to 9 : FR5 - Internal Plasterboard Stud Wall No Ari Akritidis BS-U 1573 e foam (k ≡ 0.04) (R2.0) INSPECTION BOOKINGS: 95682992 10:150170 - CONCRETE BLOCK 90 FC Glass fibre batt: R2.5 (R2.5);Polyethyler

Certificate Number: 3XUZ2Z5J0S

Date of Certificate: 18 Feb 2015

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Building Features

External wall schedule

Wall type	Area (m ²)	Orientation	Zone name		Fixed shade	Eaves
1 : 150170 - Double Brick	17.7	N	Garage		No	No
1 : 150170 - Double Brick	1.9	N	Garage		No	Yes
1 : 150170 - Double Brick	3.6	W	Garage		No	No
2 : 150170 - DULUX EXSUULITE 100mm Expanded Polystyrene Clad	3.4	S	Garage		Yes	No
1 : 150170 - Double Brick	18.7	E	Garage		No	No
3 : 150170 - DULUX EXSUULITE 100mm Expanded Polystyrene Clad	10.4	W	Studio		Yes	No
4 : 150170 - Internal Sound Plasterboard Stud Wall 2x16PB	0.5	S	Studio		Yes	No
5 : 150170 - Brick Veneer	11.9	E	Studio		No	No
5 : 150170 - Brick Veneer	1.2	E	Laundry		Yes	No
5 : 150170 - Brick Veneer	5.7	S	Laundry		Yes	No
5 : 150170 - Brick Veneer	7.3	ESE	Laundry		No	No
5 : 150170 - Brick Veneer	8.6	N	Study		Yes	Yes
6 : 150170 - CONCRETE BLOCK 90	2.7	W	Study		Yes	No
7 : 150170 - CONCRETE BLOCK 90	0.7	Ν	Study		Yes	No
3 : 150170 - DULUX EXSUULITE 100mm Expanded Polystyrene Clad	10.1	E	Hallway		Yes	No
3 : 150170 - DULUX EXSUULITE 100mm Expanded Polystyrene Clad	6.5	S	Hallway		Yes	No
2 : 150170 - DULUX EXSUULITE 100mm Expanded Polystyrene Clad	0.8	E	Hallway		Yes	No
8 : 150170 - Brick Veneer + CORTEN	4.3	Ν	Bedroom 1		No	Yes
8 : 150170 - Brick Veneer + CORTEN	9.5	N	Bedroom 1		No	No
8 : 150170 - Brick Veneer + CORTEN	2	W	Bedroom 1		No	No
5 : 150170 - Brick Veneer	10.6	W	Bedroom 1		No	
8 : 150170 - Brick Veneer + CORTEN	6	E	Bedroom 1	Con	Broup Building Sultants	
5 : 150170 - Brick Veneer	21	ESE	Kitchen	Docu	ed Plans and me eta tion"	
5 : 150170 - Brick Veneer	9	ESE	Bedroom 2		Yes	
3 : 150170 - DULUX EXSUULITE 100mm Expanded Polystyrene Clad	0.7	S	Bedroom 2		rmit No.: 20150 sue Date: 25/02	
5 : 150170 - Brick Veneer	4.4	E	WIR B2	\mathcal{O}	Yes	Yes
5 : 150170 - Brick Veneer	8	E	Bathroom	Ari Akritid		No
5 : 150170 - Brick Veneer	2.5	ESE	WC to Bedrooms	BS-U 1573 INSPECT	B IONSOOKINGS:	95682992

Certificate Number: 3XUZ2Z5J0S

Date of Certificate: 18 Feb 2015

★ Star rating: 6



Building Features

5 : 150170 - Brick Veneer	12	S	Bedroom 3	No	No
5 : 150170 - Brick Veneer	9.3	E	Bedroom 3	Yes	No
5 : 150170 - Brick Veneer	10.1	W	Bedroom 4	Yes	Yes
5 : 150170 - Brick Veneer	12	S	Bedroom 4	No	No
5 : 150170 - Brick Veneer	14.8	N	Media Room	Yes	No
5 : 150170 - Brick Veneer	13.6	W	Media Room	No	No
5 : 150170 - Brick Veneer	1.3	S	Media Room	Yes	No
5 : 150170 - Brick Veneer	4.3	W	Living Dining A	rea Yes	Yes
5 : 150170 - Brick Veneer	28.5	WSW	Living Dining A	rea Yes	Yes
5 : 150170 - Brick Veneer	2.7	S	Living Dining A	rea Yes	Yes
9 : FR5 - Internal Plasterboard Stud Wall	0.6	N	Living Dining A	rea Yes	No
3 : 150170 - DULUX EXSUULITE 100mm Expanded Polystyrene Clad	10.1	N	Living Dining A	rea Yes	No
9 : FR5 - Internal Plasterboard Stud Wall	0.4	N	Living Dining A	rea Yes	No
5 : 150170 - Brick Veneer	1.3	W	Living Dining A	rea No	No
5 : 150170 - Brick Veneer	1.9	S	Living Dining A	rea No	No
3 : 150170 - DULUX EXSUULITE 100mm Expanded Polystyrene Clad	0.7	S	Living Dining A	rea No	No
3 : 150170 - DULUX EXSUULITE 100mm Expanded Polystyrene Clad	1.9	N	Living Dining A	rea No	Yes
3 : 150170 - DULUX EXSUULITE 100mm Expanded Polystyrene Clad	1.1	N	Living Dining A	rea No	No
3 : 150170 - DULUX EXSUULITE 100mm Expanded Polystyrene Clad	4	N	Living Dining A	rea No	No
5 : 150170 - Brick Veneer	20.6	WSW	Living Dining A	rea No	Yes
5 : 150170 - Brick Veneer	4.7	W	Bathroom 1	No	No
5 : 150170 - Brick Veneer	7.5	W	Bathroom 1	No	Yes
5 : 150170 - Brick Veneer	5.7	S	Bathroom 1	Yes	Yes
5 : 150170 - Brick Veneer	12.7	W	Hallway to bed	ooms Yes Akritidis Group Building	
3 : 150170 - DULUX EXSUULITE 100mm Expanded Polystyrene Clad	1.2	NNE	Hallway to bed	Consultants	
9 : FR5 - Internal Plasterboard Stud Wall	0.6	S	WC to Bathroo		AKRITIDIS GROUP I BULDING CONSULTINITS
6 : 150170 - CONCRETE BLOCK 90	5.4	N	Entry foyer	Pennit No.: 201	
10 : 150170 - CONCRETE BLOCK 90 FC	1.9	W	Entry foyer	Issue Date: 25/0 No	12/2015 Yes
10 : 150170 - CONCRETE BLOCK 90 FC	0.5	W	Entry foyer	No	Yes
3 : 150170 - DULUX EXSUULITE 100mm Expanded Polystyrene Clad	1.4	S	Entry foyer	Ari Akritidis BS-U 1573 INSPECTION BOOKINGS	Yes 3: 95682992

Certificate Number: 3XUZ2Z5J0S

Date of Certificate: 18 Feb 2015

★ Star rating: 6



Building Features

3 : 150170 - DULUX EXSUULITE 100mm Expanded Polystyrene Clad	2.3	E	Entry foyer	No	Yes
6 : 150170 - CONCRETE BLOCK 90	1.5	N	Entry foyer	No	Yes

Internal wall type

Туре	Area (m ²)	Insulation
1 : 150170 - Brick Veneer	22.7	Glass fibre batt (k = 0.044 density = 12 kg/m3) (R2.7)
2 : 150170 - Internal Sound Plasterboard Stud Wall 2x16PB	34	Glass fibre batt (k = 0.044 density = 12 kg/m3) (R2.7)
3 : FR5 - Internal Plasterboard Stud Wall	234.6	
4 : 150170 - Brick Veneer	4.3	Glass fibre batt (k = 0.044 density = 12 kg/m3) (R2.7)
5 : 150170 - CONCRETE BLOCK 90	8.2	Glass fibre batt: R2.5 (R2.5);Polyethylene foam (k = 0.04) (R2.0)

Floors

Location	Construction	Area (m ²)	Sub floor ventilation	Added insulation	Covering
Garage	CSOG: Slab on Ground	41.7	Enclosed	0.9	none
Studio	CSOG: Slab on Ground	17.2	Enclosed	1.0	Carpet
Laundry	CSOG: Slab on Ground	7.5	Enclosed	1.0	none
Study	CSOG: Slab on Ground	13.5	Enclosed	1.0	floattimber
Hallway	CSOG: Slab on Ground	15.2	Enclosed	1.0	floattimber
Bedroom 1	CSOG: Slab on Ground	23.9	Enclosed	1.0	Carpet
WIR B1	CSOG: Slab on Ground	8.7	Enclosed	1.0	Carpet
Powder Room	CSOG: Slab on Ground	2.8	Enclosed	1.0	floattimber
Kitchen	CSOG: Slab on Ground	26.3	Enclosed	1.0	none
Bedroom 2	CSOG: Slab on Ground	13.9	Enclosed	1.0	Carpet
WIR B2	CSOG: Slab on Ground	2.6	Enclosed	1.0	Carpet
Bathroom	CSOG: Slab on Ground	6	Enclosed	1.0	Lilos
Cupboard	CSOG: Slab on Ground	2.1	Enclosed	kritidis Group Building	
WC to Bedrooms	CSOG: Slab on Ground	1.7	Enclosed	"Approved Plans and Documentation"	
Bedroom 3	CSOG: Slab on Ground	16.9	Enclosed	1.0	
Bedroom 4	CSOG: Slab on Ground	15.8	Enclosed	1.Bermit No.: 2015 Issue Date: 25/02	0189/0 2/2015
Media Room	CSOG: Slab on Ground	25.1	Enclosed	1.0	Carpet
Living Dining Area	CSOG: Slab on Ground	73	Enclosed	Je.	none
Bathroom 1	CSOG: Slab on Ground	11.9		i Akritidis S-U ¹ 1573	Tiles
Hallway to bedrooms	CSOG: Slab on Ground	23.9	Enclosed	NSPECTION BOOKINGS:	95682992

Certificate Number: 3XUZ2Z5J0S

Date of Certificate: 18 Feb 2015

★ Star rating: 6



Building Features

WC to Bathroom 1	CSOG: Slab on Ground	1.8	Enclosed	1.0	none
Entry foyer	CSOG: Slab on Ground	6.1	Enclosed	1.0	floattimber

Ceiling type					
Location	Material			Added insulation	Roof space above
Garage	Plasterb	oard		5.0	No
Studio	Plasterb	oard		5.0	No
Laundry	Plasterb	oard		5.0	No
Study	Plasterb	oard		5.0	No
Hallway	Plasterb	oard		5.0	No
Bedroom 1	Plasterb	oard		5.0	No
WIR B1	Plasterb	oard		5.0	No
Powder Room	Plasterb	oard		5.0	No
Kitchen	Plasterb	oard		5.0	No
Bedroom 2	Plasterb	oard		5.0	No
WIR B2	Plasterb	oard		5.0	No
Bathroom	Plasterb	oard		5.0	No
Cupboard	Plasterb	oard		5.0	No
WC to Bedrooms	Plasterb	oard		5.0	No
Bedroom 3	Plasterb	oard		5.0	No
Bedroom 4	Plasterb	oard		5.0	No
Media Room	Plasterb	oard		5.0	No
Living Dining Area	Plasterb	oard		5.0	No
Bathroom 1	Plasterb	oard		5.0	No
Hallway to bedrooms	Plasterb	oard		5.0	No
WC to Bathroom 1	Plasterb	oard		5.0	No
Entry foyer	Plasterb	oard		5.0 Akritidis Group B	
Ceiling penetratio	ns			Consultants "Approved Plans Documentatio	and on"
Location	Number	Туре	Width (mm)		Seal/ unsealed
Studio	4	Downlights	50	50 Permit N 50 Issue Da	o.: 20150189/0 te: 25/02/2015
Laundry	1	Exhaust Fans	200	200	Sealed
Laundry	2	Downlights	50	50 50 Ari Akritidis	Sealed
Study	4	Downlights	50	BS-U 1573	Sealed
Hallway	4	Downlights	50	INSPECTION BC	OKINGS: 95682992

Certificate Number: 3XUZ2Z5J0S

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Building Features

WIR B13Downlights50Powder Room1Exhaust Fans200Powder Room1Downlights50Kitchen7Downlights50Kitchen1Exhaust Fans200Bedroom 24Downlights50WIR B21Downlights50Bathroom1Exhaust Fans200Bathroom1Exhaust Fans50Cupboard1Downlights50WC to Bedrooms1Downlights50WC to Bedrooms1Downlights50WC to Bedrooms1Downlights50Bedroom 34Downlights50Bedroom 44Downlights50	50 200 50 200 50 200 50 200 50 200 50 200 50 50 50 50 50 50 50 50	Sealed Sealed Sealed Sealed Sealed Sealed Sealed Sealed Sealed Sealed Sealed Sealed
Powder Room1Downlights50Kitchen7Downlights50Kitchen1Exhaust Fans200Bedroom 24Downlights50WIR B21Downlights50Bathroom1Exhaust Fans200Bathroom1Downlights50Cupboard1Downlights50WC to Bedrooms1Exhaust Fans200WC to Bedrooms1Exhaust Fans200WC to Bedrooms1Downlights50Bedroom 34Downlights50	50 50 200 50 50 200 50 50	Sealed Sealed Sealed Sealed Sealed Sealed Sealed Sealed
Kitchen7Downlights50Kitchen1Exhaust Fans200Bedroom 24Downlights50WIR B21Downlights50Bathroom1Exhaust Fans200Bathroom1Downlights50Cupboard1Downlights50WC to Bedrooms1Exhaust Fans200WC to Bedrooms1Exhaust Fans200WC to Bedrooms1Downlights50Bathroom1Downlights50State Fans20050WC to Bedrooms1Downlights50Bedroom 34Downlights50	50 200 50 50 200 50	Sealed Sealed Sealed Sealed Sealed Sealed Sealed
Kitchen1Exhaust Fans200Bedroom 24Downlights50WIR B21Downlights50Bathroom1Exhaust Fans200Bathroom1Downlights50Cupboard1Downlights50WC to Bedrooms1Exhaust Fans200WC to Bedrooms1Exhaust Fans200WC to Bedrooms1Downlights50Bedroom 34Downlights50	200 50 50 200 50	Sealed Sealed Sealed Sealed Sealed
Bedroom 24Downlights50WIR B21Downlights50Bathroom1Exhaust Fans200Bathroom1Downlights50Cupboard1Downlights50WC to Bedrooms1Exhaust Fans200WC to Bedrooms1Exhaust Fans200WC to Bedrooms1Downlights50Bedroom 34Downlights50	50 50 200 50	Sealed Sealed Sealed Sealed Sealed
WIR B21Downlights50Bathroom1Exhaust Fans200Bathroom1Downlights50Cupboard1Downlights50WC to Bedrooms1Exhaust Fans200WC to Bedrooms1Downlights50WC to Bedrooms1Downlights50Bedroom 34Downlights50	50 200 50	Sealed Sealed Sealed
Bathroom1Exhaust Fans200Bathroom1Downlights50Cupboard1Downlights50WC to Bedrooms1Exhaust Fans200WC to Bedrooms1Downlights50WC to Bedrooms1Downlights50Bedroom 34Downlights50	200 50	Sealed Sealed
Bathroom1Downlights50Cupboard1Downlights50WC to Bedrooms1Exhaust Fans200WC to Bedrooms1Downlights50Bedroom 34Downlights50	50	Sealed
Cupboard1Downlights50WC to Bedrooms1Exhaust Fans200WC to Bedrooms1Downlights50Bedroom 34Downlights50		
WC to Bedrooms1Exhaust Fans200WC to Bedrooms1Downlights50Bedroom 34Downlights50	50	Sealed
WC to Bedrooms1Downlights50Bedroom 34Downlights50		
Bedroom 34Downlights50	200	Sealed
	50	Sealed
Bedroom 4 Downlights 50	50	Sealed
	50	Sealed
Media Room 6 Downlights 50	50	Sealed
Bathroom 1 3 Downlights 50	50	Sealed
Bathroom 1 1 Exhaust Fans 200	200	Sealed
Hallway to bedrooms 8 Downlights 50	50	Sealed
WC to Bathroom 1 1 Downlights 50	50	Sealed
WC to Bathroom 1 1 Exhaust Fans 200		Sealed

Ceiling fans

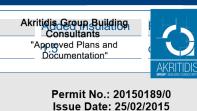
Location

Number Diameter (mm)

Roof type

Material

Framed:Flat - Flat Framed (Metal Deck)



Ari Akritidis BS-U 1573 INSPECTION BOOKINGS: 95682992

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Additional information

Note: Some of the material used for either walls or roofs in the rating may differ from those specified in the design documents. This is due where the material specified is not available in the FirstRate software. Were differing material is used, we have used material with a comparable rating and is for rating purposes only. Refer to architects drawings & specifications for all material and system requirements.

Explanatory notes

About this report

Residential energy ratings address the quality of the building fabric i.e. walls, windows, floors and roof/ceilings. Ratings do not cover the energy or water efficiency of appliances including heating and cooling, hot water, dishwashers, ovens, fridges, TVs etc. or solar panel or water tank requirements. The efficiency or specification of these items is generally covered by other regulations, standards or guidelines.

General Information

A NatHERS House Energy Rating is a comprehensive, dynamic computer modelling evaluation of the floorplans, elevations and specifications to predict an energy load of a home. Not all of us use our homes in the same way, so ratings are generated using standard assumptions. This means homes can be compared across the country.

The actual energy consumption of your home may vary significantly from the predicted energy load figures in this report depending on issues such as the size of your household and your personal preferences, e.g. in terms of heating or cooling.

While the figures are an indicative guide to energy use, they can be used as a reliable guide for comparative purposes between different house designs and for demonstrating that the design meets the required regulatory compliance.

Homes that are energy efficient use less energy, are warmer in winter, cooler in summer and cost less to run. The higher the star rating the more energy efficient.

This NatHERS House Energy Rating report was carefully prepared by your assessor on the basis of comprehensive modelling using standard procedures to rate your home using an underlying engine developed by the Australian Commonwealth Scientific and Industrial Research Organisation (CSIRO).

All information relating to energy loads presented in this report is based on a range of standard assumptions in order to allow for comparisons with reports prepared for other homes and to demonstrate minimum regulatory compliance. The standard assumptions include figures for occupancy, indoor air temperature and are based on a unique climate file for your region.

Accredited Assessors

To ensure you get a high-quality, professional NatHERS House Energy Rating report, you should always use an accredited assessor, accredited assessors are members of a professional body called an Assessor Accrediting Organisation (AAO).

AAOs have specific quality assurance processes in place and continuing professional development requirements to maintain a high and consistent standard of assessments across the country. Non-accredited assessors do not have this level of quality assurance or any on-going training requirements.

If you have any questions or concerns about this report, please direct them to your assessor in the first instance.

If your assessor is unable to address your questions or concerns, please contact their AAO listed under 'assessor details'. You can also find a range of information about accredited assessors on the AAO websites.

Disclaimer

The energy values quoted are for comparison purposes only; they are not a prediction of actual energy use. This rating only applies to the floor plan, construction details, orientation and climate as submitted and included in the attached drawing set that bears a stamp with the same number as this certificate. Changes to any of these details could affect the rating.

Contact

For more information on the Nationwide House Energy Rating Scheme (Nati

For more information on eracting the strategy an insulation visit www.yourhome.gonsultants



Permit No.: 20150189/0 Issue Date: 25/02/2015

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All new homes, additions and alterations must satisfy the following Deemed-to-Satisfy requirements, in addition to achieving a 6-Star energy rating. This came into effect with BCA 2011 on May 1.

The Building Commission's Practice Notes: 2011-55 Part B are attached to this report. "What is reasonable" (9.3) of the Practice Notes relates to this dwellings existing structure

Building Fabric

Insulation must be installed correctly and to manufacturers specifications e.g. No gaps, bulk insulation not compressed etc.

- Wall Insulation If existing external wall's plasterboard is replaced or voids are filled in then the walls need to be insulated to this report's
- Suspended Timber/Concrete Floors The existing dwellings suspended floors, where • accessible, need to be insulated to this report'srequirements.
- Roof Insulation The existing dwellings roof insulation, where accessible, needs to be • replaced or upgrade to meet this report's requirements.

R0.2 thermal breaks must be installed where metal framing is used, and connects directly to metal roofing or lightweight external wall cladding, if;

- There is no internal lining, or; 0
- The internal lining is fixed directly to the same metal framing 0

Additional ceiling insulation will be required where many recessed downlights and/or ٠ exhaust fans are used. A 200m2 house would permit, without needing extra insulation:

- Incadescent lamp must have a clearance of 50mm above laminar, 100mm side clearance and • 50mm clearance to thermal insulation with a 50 mm claearance to the supply transformer
- Halagen Lamps must have a clearance of 200mm above the lur linair a 200mm side • Akritidis Group Building clearance to structural member, a 200mm clearance to therma insulations 50mm clearance to the supply transformer.
- exhaust fans must have a 100mm Clearance
- Note: If approved fireproof downlight covers, which can be ful / covered Reprints Nat R0150169/0 • specified and noted on the electrical plan by the building designer or architect, then there is no need to allow for the ceiling penetration



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If a concrete slab-on-ground is heated, R1.0 insulation must be installed around the vertical ٠ edge of its perimeter. Concrete slab edge insulation has been incorporated in this rating to maximise Energy Efficiency requirements.

Building Sealing

- Chimneys and flues must be fitted with dampers
- External windows, doors and roof lights serving habitable rooms must be sealed
- Exhaust fans and evaporative coolers serving habitable rooms must be self-sealing

Roofs, walls, and floors that are part of the external fabric must be constructed to minimise air leakage

Holes, rips and penetrations through Sisalation, Reflective Foils and Insulation Warps must be sealed or repaired. Insulation batts and blankets are not to be compressed when being installed and all voids must be completely filled.

Services

Central heating water piping, and heating and cooling ductwork, that is not within a conditioned room must be insulated and protected from weather

Heating for a swimming pool must be by solar and not boosted by electric resistance heating

Heating for a spa pool with a capacity of 680 L or more must be by a solar heater, gas heater or a heat pump

Circulation pumps and heaters must be controlled with time switches and push buttons

Electrical

Lighting must have a maximum power density of 5 W/m2 within a house; 4 W/m2 on verandas or balcony's; and 3 W/m2 in a garage or shed

Where lamps are used that have a transformer or ballast, the transformer or ballast, the transformer or balla must be of the electric type

Halogen lamps must be separately switched from fluorescent lamps

Permit No.; 20150189/0 Issue Date: 25/02/2015 Outdoor lighting must be controlled by a daylight senser, or have Lumens/W

Electric resistance space heating systems that serve mere than a more space heating systems that serve mere than a more space heating systems that serve mere than a more space heating systems that serve mere than a more space heating systems that serve mere than a more space heating systems that serve mere than a more space heating systems that serve mere than a more space heating systems that serve mere than a more space heating systems that serve mere than a more space heating systems that serve mere space heating se





BS-U 1573 **INSPECTION BOOKINGS: 95682992** o separate isolating switches for each room

o separate temperature controller and time switch for each group of rooms with common heating needs (e.g. bedrooms and bathrooms)

o maximum power loads below 110 W/m2 for living areas, and 150 W/m2 for bathrooms

Rainwater Tank and or Solar Hot Water

• New homes (Class 1) require either a:

o Rainwater tank of at least 2000 L with a minimum catchment area of 50 m2 connected to all toilets, or;

o Solar water heater system (gas boosted if gas is available)

Glazing

Glass window and glass door sizes are not to be increased. Glass windows and glass doors U-Values maybe decreased but SHCG Values should not to be changed especially when the windows face a northerly direction on a concrete floor type construction.

Note:The above is a guide and all information shall be confirmed with the Architect/Building Designers drawings and specifications.

