



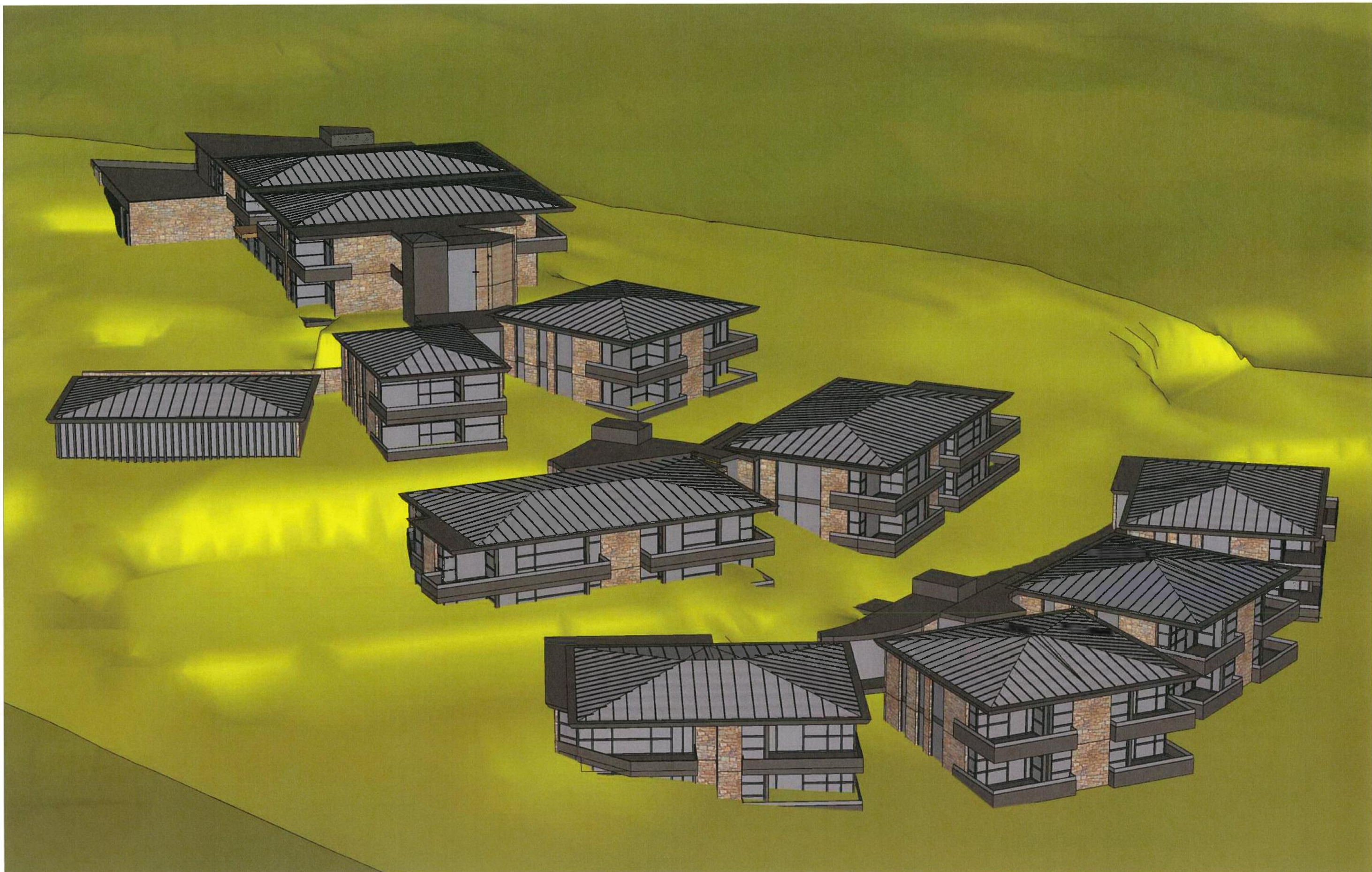
Western view from on Hill

IMPORTANT NOTES: Do not scale from drawings. All dimensions shall be checked on site before commencement of work. All discrepancies shall be brought to the attention of the Architect. Larger scale drawings and written dimensions take precedence. This drawing is copyright of the property of the author, and must not be retained, copied or used without the express authority of MARCHESI PARTNERS INTERNATIONAL PTY. LTD. FOR APPROVAL NOT FOR CONSTRUCTION	REVISION		DATE	DESCRIPTION	BY				
	L		20.03.2019	FOR DA APPROVAL	PS				
	marchesipartners Marchesi Partners International Pty Ltd Level 1, 53 Walker Street, North Sydney, NSW 2060, Australia P +61 2 9922 4375 F +61 2 9929 5786 E info@marchesipartners.com www.marchesipartners.com Sydney • Brisbane • Canberra • Melbourne • Adelaide Kuala Lumpur • Auckland • Christchurch • London • Madrid ABN 20 098 552 151								
	CLIENT DuKor 24 Pty Ltd Frenchs Forest Barnes Road								
DRAWING TITLE									
PHOTOMONTAGE 03									
PROJECT		SCALE	DATE	DRAWN	CHECKED				
Oxford Falls - Self Contained Dwellings		NTS	29.03.2019	AS	PS				
JOB	DRAWING		REVISION						
18161	DA 6.03		L						



Eastern view from Oxford Falls Road

IMPORTANT NOTES: Do not scale from drawings. All dimensions shall be checked on site before commencement of work. All discrepancies shall be brought to the attention of the Architect. Larger scale drawings and written dimensions take precedence. This drawing is copyright and the property of the author, and must not be retained, copied or used without the express authority of MARCHESE PARTNERS INTERNATIONAL PTY, LTD.	REVISION	DATE	DESCRIPTION	BY
	L	29.03.2019	FOR DA APPROVAL	PS
FOR APPROVAL NOT FOR CONSTRUCTION	marchesepartners			
	Marchese Partners International Pty Ltd Level 1, 53 Walker Street, North Sydney, NSW 2060, Australia P +61 2 9922 4375 F +61 2 9929 5786 E info@marchesepartners.com www.marchesepartners.com Sydney • Brisbane • Canberra • Melbourne • Adelaide Kuala Lumpur • Auckland • Christchurch • London • Madrid ABN 20 098 552 151			
CLIENT DuKor 24 Pty Ltd Frenchs Forest Barnes Road				
PROJECT Oxford Falls - Self Contained Dwellings				
DRAWING TITLE PHOTOMONTAGE 04				
SCALE NTS		DATE 29.03.2019	DRAWN AS	CHECKED PS
JOB 18161		DRAWING DA 6.04		REVISION L



IMPORTANT NOTES:
Do not scale from drawings. All dimensions shall be checked on site before commencement of work. All discrepancies shall be brought to the attention of the Architect. Larger scale drawings and written statements take precedence. This drawing is copyright and the property of the author, and must not be relied on, copied or used without the express authority of MARCHESI PARTNERS INTERNATIONAL PTY. LTD.

FOR APPROVAL
NOT FOR CONSTRUCTION

REVISION	DATE	DESCRIPTION	BY
1	29.03.2019	FOR DA APPROVAL	PS

marchesipartners

Marchesi Partners International Pty Ltd
Level 1, 53 Walker Street, North Sydney, NSW 2060, Australia
P +61 2 9922 4375 F +61 2 9929 5786 E info@marchesipartners.com
www.marchesipartners.com
Sydney • Brisbane • Canberra • Melbourne • Adelaide
Kuala Lumpur • Auckland • Christchurch • London • Madrid
ABN 20 098 552 151

CLIENT
DuKor 24 Pty Ltd
Frenchs Forest
Barnes Road

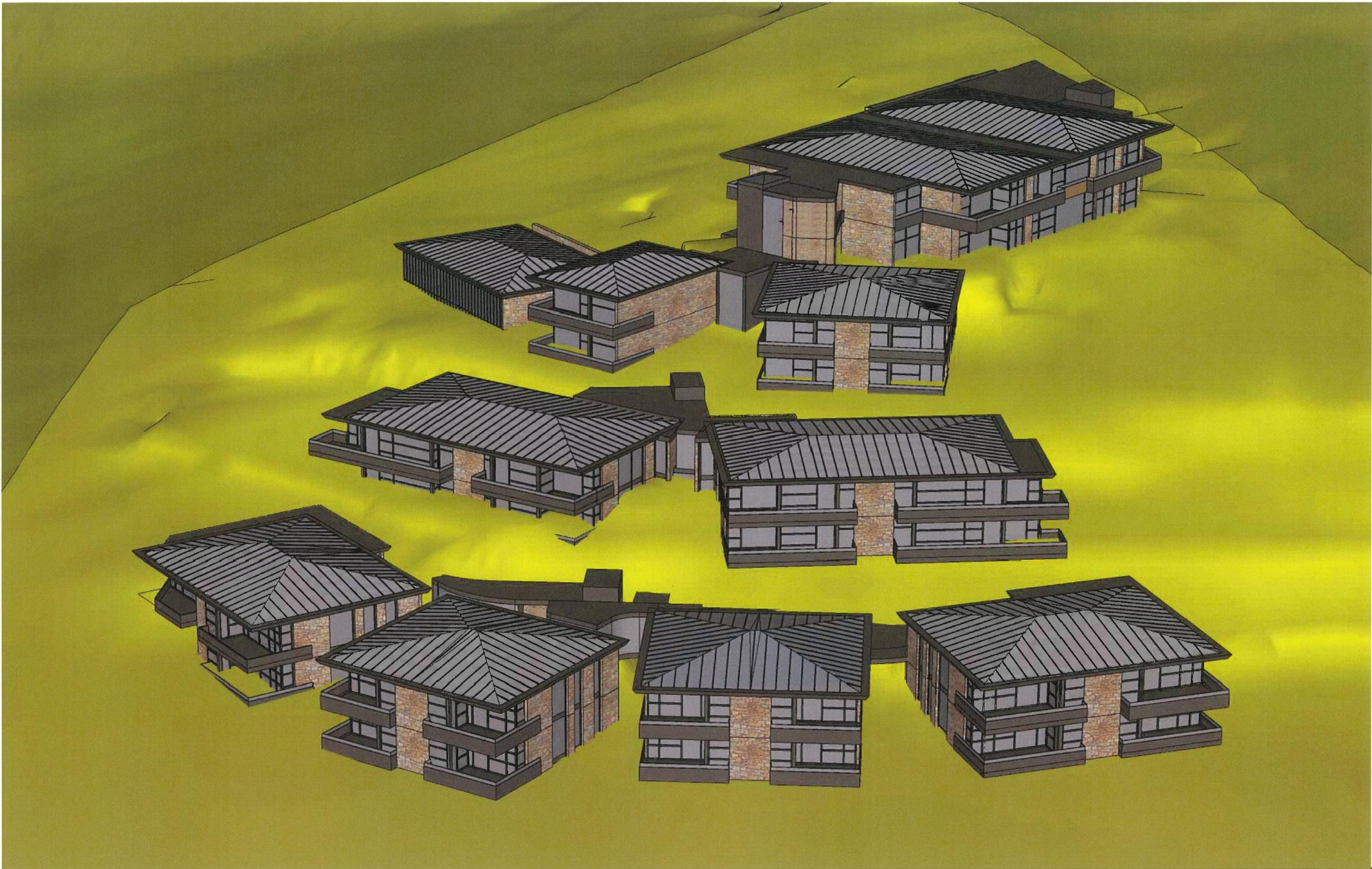
PROJECT
Oxford Falls - Self Contained Dwellings

DRAWING TITLE
3D MODEL VIEW 1

SCALE	DATE	DRAWN	CHECKED
NTS	29.03.2019	AS	PS
JOB	DRAWING	REVISION	
18161	DA 6.05	L	



IMPORTANT NOTES: Do not scale from drawings. All dimensions shall be checked on site before commencement of work. All discrepancies shall be brought to the attention of the Architect. Larger scale drawings and written dimensions take precedence. This drawing is copyright and the property of the author, and must not be retained, copied or used without the express authority of MARCHESI PARTNERS INTERNATIONAL PTY, LTD. FOR APPROVAL NOT FOR CONSTRUCTION	<table><tr><th>REVISION</th><th>DATE</th><th>DESCRIPTION</th><th>BY</th></tr><tr><td>L</td><td>28.02.2019</td><td>FOR DA APPROVAL</td><td>PS</td></tr></table>			REVISION	DATE	DESCRIPTION	BY	L	28.02.2019	FOR DA APPROVAL	PS	marchesepartners Marchesi Partners International Pty Ltd Level 1, 53 Walker Street, North Sydney, NSW 2060, Australia P +61 2 9922 4375 F +61 2 9929 5786 E info@marchesepartners.com www.marchesepartners.com Sydney • Brisbane • Canberra • Melbourne • Adelaide Kuala Lumpur • Auckland • Christchurch • London • Madrid ABN 20 098 552 151			CLIENT DuKor 24 Pty Ltd Frenchs Forest Barnes Road			DRAWING TITLE 3D MODEL VIEW 2			
	REVISION	DATE	DESCRIPTION	BY																	
	L	28.02.2019	FOR DA APPROVAL	PS																	
	PROJECT Oxford Falls - Self Contained Dwellings						SCALE NTS	DATE 29.03.2019	DRAWN AS	CHECKED PS											
JOB 18161						DRAWING DA 6.06		REVISION L													



IMPORTANT NOTES: Do not scale from drawings. All dimensions shall be checked on site before commencement of work. All discrepancies shall be brought to the attention of the Architect. Larger scale drawings and written dimensions take precedence. This drawing is copyright and the property of the author, and must not be retained, copied or used without the express authority of MARCHESE PARTNERS INTERNATIONAL PTY, LTD. FOR APPROVAL NOT FOR CONSTRUCTION	REVISION		DATE	DESCRIPTION	BY	marchesepartners Marchese Partners International Pty Ltd Level 1, 53 Walker Street, North Sydney, NSW 2060, Australia P +61 2 9922 4375 F +61 2 9929 5786 E info@marchesepartners.com www.marchesepartners.com Sydney • Brisbane • Canberra • Melbourne • Adelaide Kuala Lumpur • Auckland • Christchurch • London • Madrid ABN 20 098 552 151				CLIENT				DRAWING TITLE			
	L		29.03.2019	FOR DIA APPROVAL	PS					DuKor 24 Pty Ltd Frenchs Forest Barnes Road				3D MODEL VIEW 3			
										PROJECT				SCALE NTS			
										Oxford Falls - Self Contained Dwellings				DATE			
										29.03.2019				DRAWN AS		CHECKED PS	
										JOB		DRAWING		REVISION			
										18161		DA 6.07		L			

Objective:
(LEP extract)

'Buildings which are designed to blend with the colours and textures of the natural landscape will be strongly encouraged.'

1. **Base:** the design blends into the landscape,
sandstone rock outcrops and retaining walls



extensive landscape design wraps around the building



- Base consists of:
- Sydney Sandstone style concrete block work
 - Full height windows
 - Extensive landscape

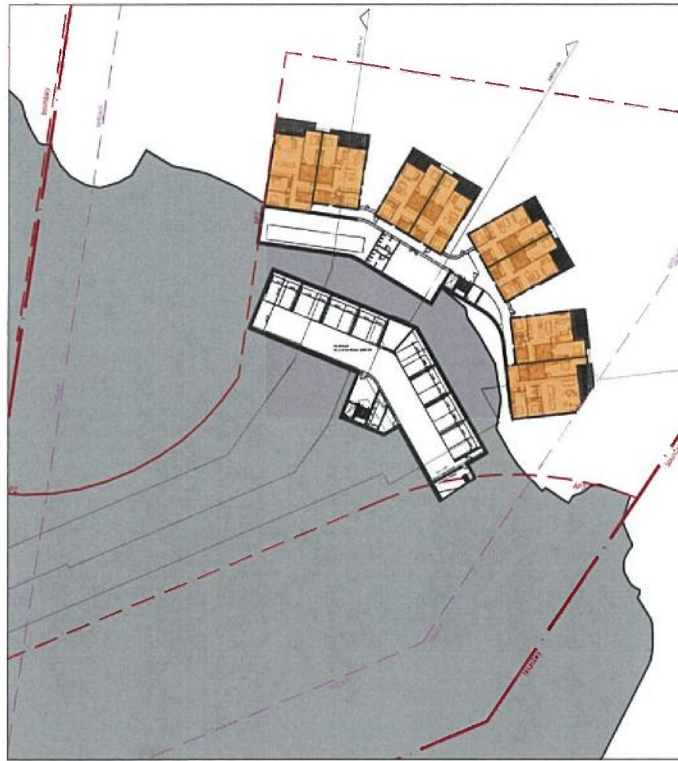
3. **Top:** roof extensions to create a distinctive element



2. **Middle:** the rendered middle part of the building floats in between the top and the base.



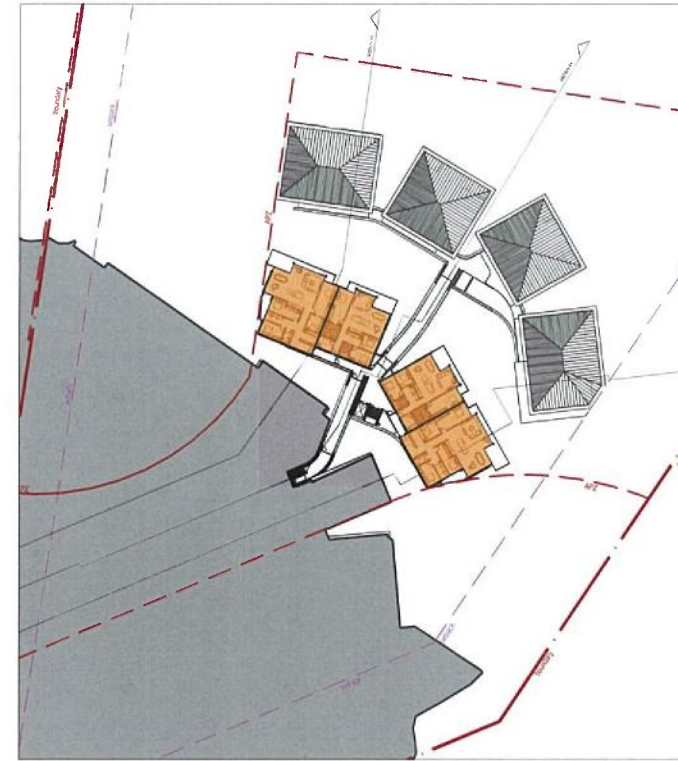
IMPORTANT NOTES: Do not scale from drawings. All dimensions shall be checked on site before commencement of work. All discrepancies shall be brought to the attention of the Architect. Larger scale drawings and written dimensions take precedence. This drawing is copyright and the property of the author, and must not be retained, copied or used without the express authority of MARCHESE PARTNERS INTERNATIONAL PTY. LTD. FOR APPROVAL NOT FOR CONSTRUCTION	REVISION	DATE	DESCRIPTION	BY	marchesepartners Marchese Partners International Pty Ltd Level 1, 53 Walker Street, North Sydney, NSW 2060, Australia P +61 2 9922 4375 F +61 2 9929 5786 E info@marchesepartners.com www.marchesepartners.com Sydney • Brisbane • Canberra • Melbourne • Adelaide Kuala Lumpur • Auckland • Christchurch • London • Madrid ABN 20 098 552 151	CLIENT DuKor 24 Pty Ltd Frenchs Forest Barnes Road PROJECT Oxford Falls - Self Contained Dwellings	DRAWING TITLE MATERIAL BOARD			
	J	08.03.2019	PRELIMINARY	PS			SCALE NTS	DATE 29.03.2019	DRAWN AS	CHECKED PS
	L	29.03.2019	FOR DA APPROVAL	PS						
							JOB 18161	DRAWING DA 6.10	REVISION L	



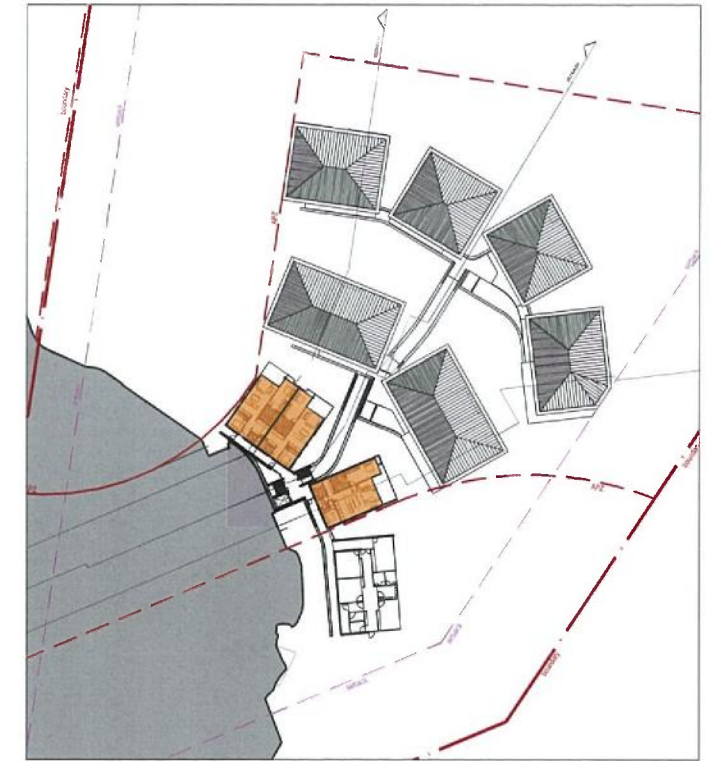
01 LEVEL RL89



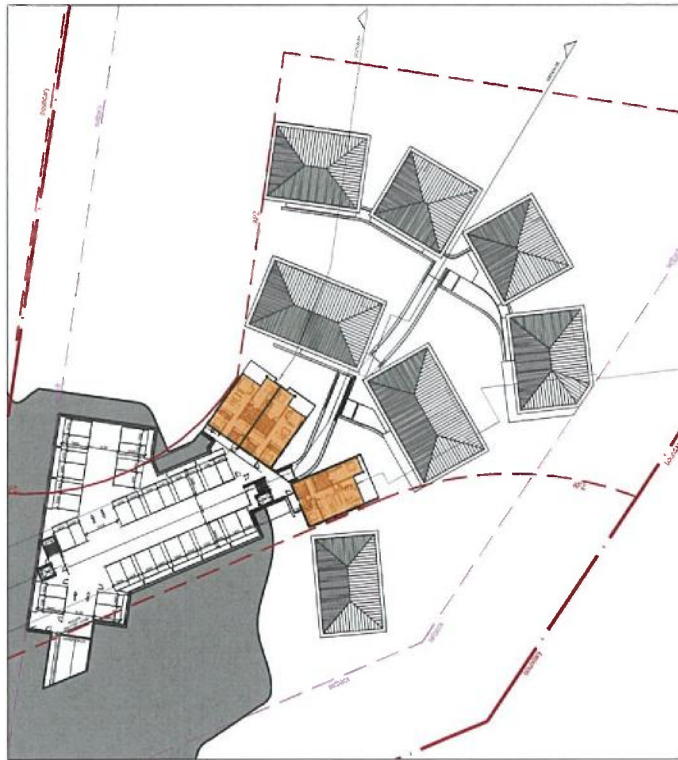
02 LEVEL RL95



03 LEVEL RL98



04 LEVEL RL101



05 LEVEL RL104



06 LEVEL RL107



07 LEVEL RL110

UNITS ACHIEVING A MINIMUM OF 2H
OF SOLAR ACCESS ON THE 21ST DECEMBER

LEVEL RL89	8
LEVEL RL95	12
LEVEL RL98	4
LEVEL RL101	3
LEVEL RL104	3
LEVEL RL107	2
LEVEL RL110	3
TOTAL	35

PERCENTAGE 85.3%

IMPORTANT NOTES:
Do not scale from drawings. All dimensions shall be checked
on site before commencement of work. All discrepancies
shall be brought to the attention of the Architect. Larger scale
drawings and written dimensions take precedence. This
drawing is copyright and the property of the author, and must
not be returned, copied or used without the express authority
of MARCHESE PARTNERS INTERNATIONAL PTY. LTD.

FOR APPROVAL
NOT FOR CONSTRUCTION

REVISION	DATE	DESCRIPTION	BY
J	08.03.2019	PRELIMINARY	PS
K	20.03.2019	PRELIMINARY	PS
L	29.03.2019	FOR DA APPROVAL	PS

marchesepartners
Marchese Partners International Pty Ltd
Level 1, 53 Walker Street, North Sydney, NSW 2060, Australia
P +61 2 9922 4375 F +61 2 9929 5786 E info@marchesepartners.com
www.marchesepartners.com
Sydney • Brisbane • Canberra • Melbourne • Adelaide
Kuala Lumpur • Auckland • Christchurch • London • Madrid
ABN 20 098 552 151



CLIENT
DuKor 24 Pty Ltd
Frenchs Forest
Barnes Road

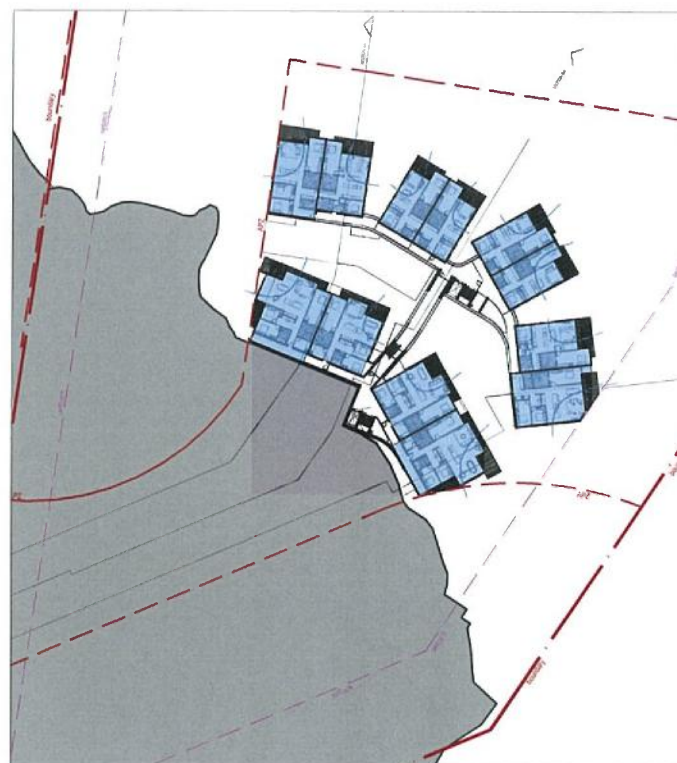
PROJECT
Oxford Falls - Self Contained Dwellings

DRAWING TITLE
SOLAR ACCESS

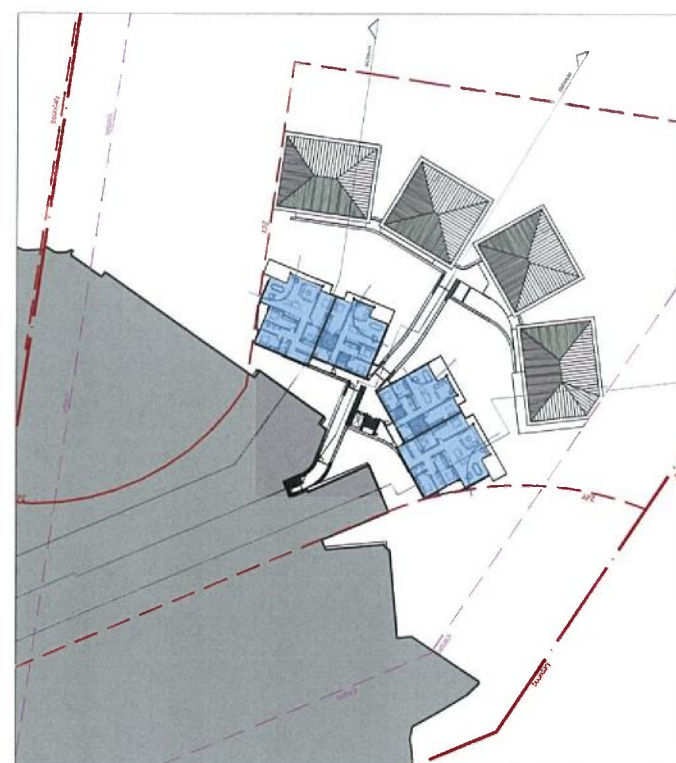
SCALE	DATE	DRAWN	CHECKED
NTS	29.03.2019	AS	PS
JOB	DRAWING	REVISION	
18161	DA 8.01	L	



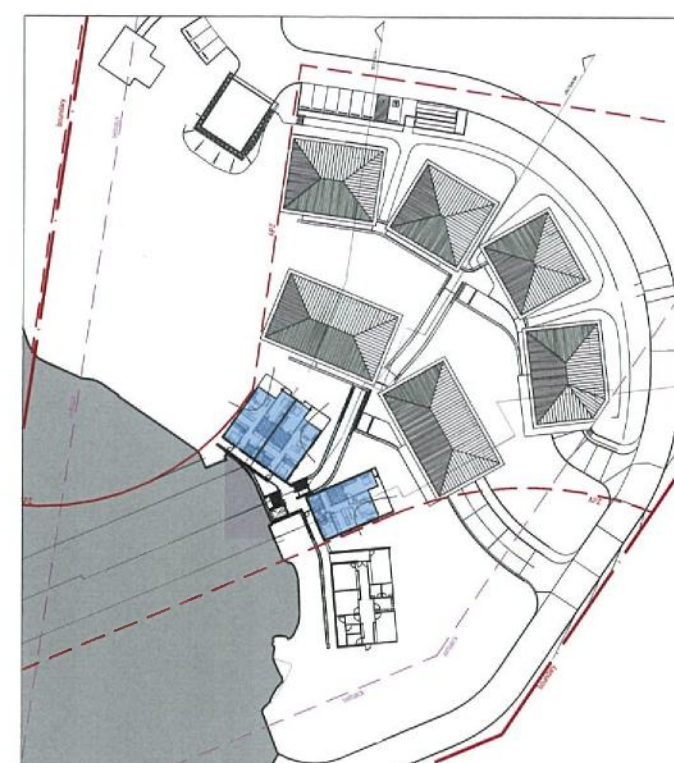
01 LEVEL RL89



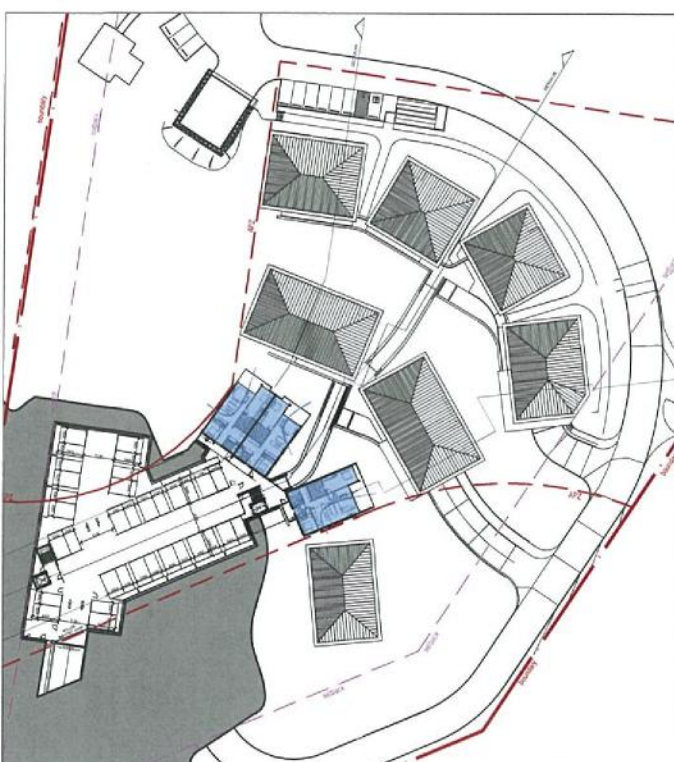
02 LEVEL RL95



03 LEVEL RL98



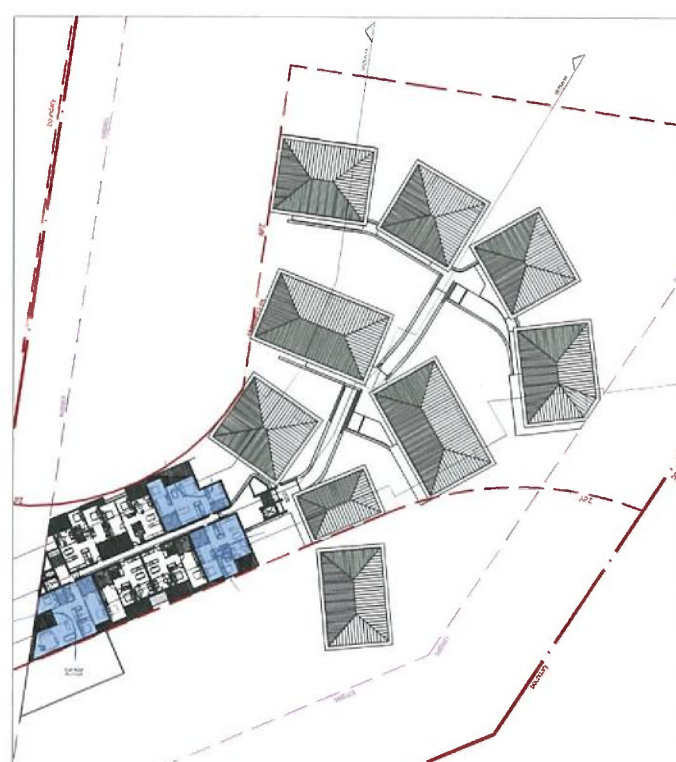
04 LEVEL RL101



05 LEVEL RL104



06 LEVEL RL107



07 LEVEL RL110

UNITS ACHIEVING CROSS VENTILATION

LEVEL RL89	8
LEVEL RL95	12
LEVEL RL98	4
LEVEL RL101	3
LEVEL RL104	3
LEVEL RL107	1
LEVEL RL110	3
TOTAL	34

PERCENTAGE 82.9%

IMPORTANT NOTES:
Do not scale from drawings. All dimensions shall be checked on site before commencement of work. All discrepancies shall be brought to the attention of the Architect. Larger scale drawings and written dimensions take precedence. This drawing is copyright and the property of the author, and must not be related, copied or used without the express authority of MARCHESE PARTNERS INTERNATIONAL PTY. LTD.

FOR APPROVAL
NOT FOR CONSTRUCTION

REVISION	DATE	DESCRIPTION	BY
J	05.03.2019	PRELIMINARY	PS
K	20.03.2019	PRELIMINARY	PS
L	22.03.2019	FOR DA APPROVAL	PS

marchesepartners
Marchese Partners International Pty Ltd
Level 1, 53 Walker Street, North Sydney, NSW 2060, Australia
P +61 2 9922 4375 F +61 2 9929 5786 E info@marchesepartners.com
www.marchesepartners.com
Sydney • Brisbane • Canberra • Melbourne • Adelaide
Kuala Lumpur • Auckland • Christchurch • London • Madrid
ABN 20 098 552 151



CLIENT
DuKor 24 Pty Ltd
Frenchs Forest
Barnes Road

PROJECT
Oxford Falls - Self Contained Dwellings

DRAWING TITLE
CROSS VENTILATION

SCALE NTS	DATE 29.03.2019	DRAWN AS	CHECKED PS
JOB 18161	DRAWING DA 5.61	REVISION L	

Nationwide House Energy Rating Scheme* — Multiple-dwelling summary

Certificate number: **0004254780**

Certificate Date: **04 Oct 2019**

★ Average Star rating: **6.3**



Assessor details

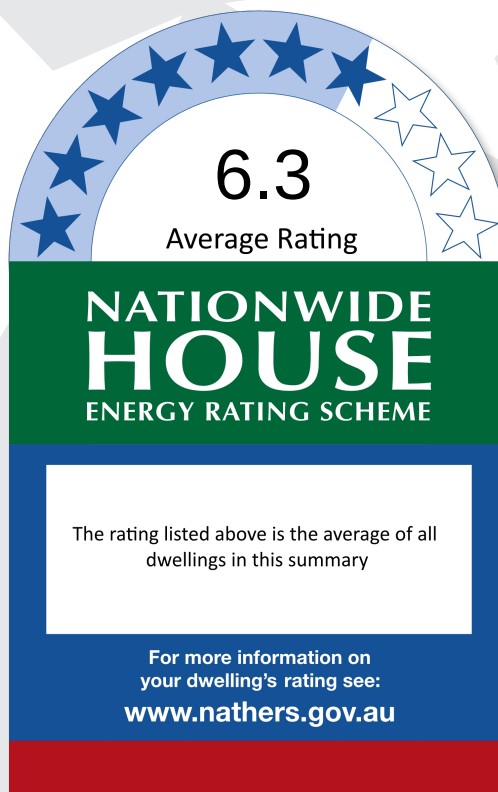
Accreditation number: **20570**
Name: **John Caley**
Organisation: **Ecological Design Pty Ltd**
Email: **john@ecologicaldesign.com.au**
Phone: **0418 262 706**
Declaration of interest: **The Assessor has provided design advice to the Applicant**
Software: **BERS Pro v4.3.0.2d (3.13)**

AAO: **ABSA**

Dwelling details

Street: **1113 Oxford Falls Road**
Suburb: **Frenchs Forest**
State: **NSW**
Postcode: **2086**

Scan to access this certificate online and confirm this is valid.



Summary of all dwellings

Certificate Details

Certificate number	Dwelling/Unit number	Heating load	Cooling load	Total load	Star Rating
0003751864	1.1.1	24.6	28.2	52.8	5.9
0003751872	1.1.2	37.7	18.3	56.0	5.7
0003752292	1.1.3	35.9	19.7	55.6	5.7
0003752284	1.1.4	31.8	21.4	53.2	5.9
0003751930	1.2.1	23.6	24.6	48.2	6.3
0003751922	1.2.2	26.2	23.9	50.2	6.1
0003751880	1.2.3	23.8	23.3	47.1	6.4
0003752276	1.2.4	42.4	28.3	70.7	4.8
0003751955	1.2.5	9.2	25.1	34.4	7.4
0003751948	1.2.6	10.0	21.5	31.5	7.6
0003752268	1.2.7	11.1	26.9	38.0	7.1
0003751989	2.1.1	5.6	28.6	34.2	7.4
0003751971	2.1.2	11.6	19.7	31.2	7.6
0003751997	2.2.1	17.1	25.3	42.5	6.8
0003752003	2.2.2	16.9	28.7	45.6	6.4

Nationwide House Energy Rating Scheme* - Multiple Dwelling Summary

Certificate number: **0004254780**

Certificate Date:

04 Oct 2019

★ Average Star rating: **6.3**



Summary of all dwellings continued

Certificate Details

Certificate number	Dwelling/Unit number	Heating load	Cooling load	Total load	Star Rating
0003752011	3.1.1	22.2	27.8	49.9	6.1
0003752029	3.2.1	20.7	29.5	50.2	6.1
0003752037	4.1.1	32.7	27.2	59.9	5.4
0003752300	4.1.2	22.5	17.1	39.6	6.9
0003752060	4.2.1	19.1	26.6	45.7	6.4
0003752326	4.2.2	9.2	25.7	34.9	7.3
0003752086	5.1.1	20.1	26.3	46.4	6.4
0003752094-03	5.1.2	16.9	22.6	39.6	6.9
0003752102	5.2.1	23.8	28.6	52.4	5.9
0003752110-03	5.2.2	2.5	26.5	29.0	7.8
0003752128-01	6.1.1	40.2	19.7	60.0	5.4
0003752367-02	6.1.2	42.8	15.2	58.0	5.5
0003752136	6.2.1	14.7	28.3	43.0	6.7
0003752359	6.2.2	21.6	29.5	51.1	5.9
0003752144	7.1.1	43.6	21.8	65.4	5.1
0003752151	7.1.2	33.4	28.8	62.1	5.3
0003752169	7.2.1	15.5	27.7	43.3	6.7
0003752177	7.2.2	17.9	27.3	45.2	6.4
0003752185	8.1.1	33.8	20.5	54.3	5.8
0003752193	8.1.2	43.6	18.4	62.0	5.3
0003752235	8.2.1	17.2	27.1	44.3	6.6
0003752201	8.2.2	25.4	24.4	49.8	6.1
0003752219	9.1.1	40.1	21.6	61.7	5.3
0003752227	9.1.2	42.3	20.8	63.1	5.2
0003752250-01	9.2.1	6.7	29.1	35.8	7.3
0003752243	9.2.2	16.8	20.0	36.8	7.2

Nationwide House Energy Rating Scheme* Certificate



Certificate number: 0003752128-01

Certificate Date: 04 Oct 2019

★ Star rating: 5.4

BERS Pro v4.3.0.0 (3.13) cannot be used to model 'roof windows'. Roof windows are 'openable or fixed windows in a roof' and do not have a shaft, as distinct from skylights which incorporate a built-in shaft and are not ventilated. BERS Pro v4.3 can only model skylights. If a roof window is present on the floor plan then this certificate is not valid.

Assessor details

Accreditation

number: 20570

Name: John Caley

Organisation: Ecological Design Pty Ltd

Email: john@ecologicaldesign.com.au

Phone: 0418 262 706

Declaration of interest: The Assessor has provided design advice to the Applicant

Software: BERS Pro v4.3.0.2d (3.13)

AAO: ABSA

Overview

Dwelling details

Street: Unit 6.1.1, 1113 Oxford Falls Road

Suburb: Frenchs Forest

State: NSW

Postcode: 2086

Type: New Dwelling

NCC Class: 1A

NatHERS

climate zone: 56

Lot/DP

number: 752038

Exposure: Suburban

Key construction and insulation materials

(see following pages for details)

Construction: Cavity Brick

Concrete, Plasterboard

Suspended Concrete Slab

Insulation:

Reflective wall insulation

No ceiling insulation

No floor insulation

Glazing:

ALM-004-03 A Aluminium B DG Air Fill

High Solar Gain low-E -Clear

Net floor area (m²)

Conditioned: 137.0

Unconditioned: 0.0

Garage: 0.0

TOTAL: 137.0

Annual thermal performance loads (MJ/m²)

Heating: 40.2

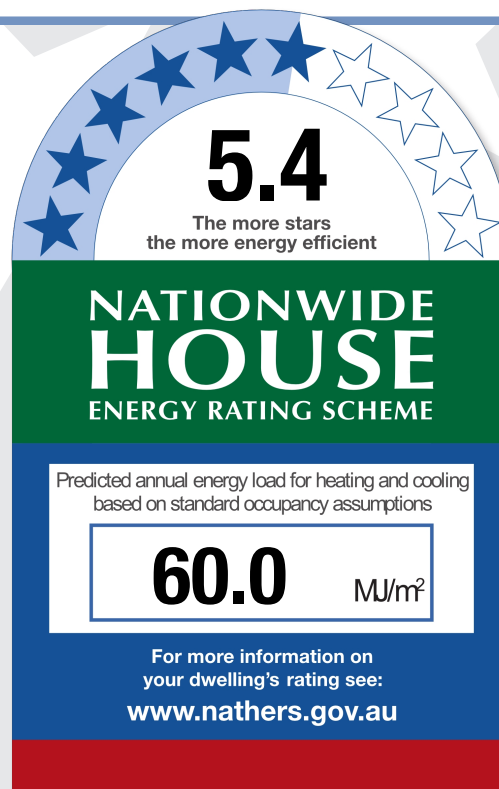
Cooling: 19.7

TOTAL: 60.0

Plan documents

Plan ref/date: Revision L of Marchese and Rev A of JCA

Prepared by: marchesepartners and John Chetham Associates



Ceiling penetrations

(see following pages for details)

Sealed: 0

Unsealed: 0

TOTAL:** 0

NOTE: This total is the maximum number of ceiling penetrations allowed to a ceiling (under a roof) for this certificate. **If this number is exceeded 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.

Principle downlight type: Unknown

Window selection - default windows only

Note on allowable window values:
Only a 5% tolerance to the nominated SHGC window values shown on page 2 can be used with this rating.

Note: Only a +/- 5% SHGC tolerance is allowed with this rating.

NB: This tolerance ONLY applies to SHGC, the U-value can always be lower but not higher than the values stated on page 2.

If any of windows selected are outside the 5% tolerance then this certificate is no longer valid and the dwelling will need to be rerated to confirm compliance.

Scan to access this certificate online and confirm this is valid.



Nationwide House Energy Rating Scheme* Certificate

Certificate number: **0003752128-01**

Certificate Date:

04 Oct 2019

★ Star rating:

5.4



Building features

Window type and performance value

Window ID	Window type	U-value	SHGC
ALM-004-03 A	ALM-004-03 A Aluminium B DG Air Fill High Solar Gain low-E -Clear	4.3	0.53
ALM-001-03 A	ALM-001-03 A Aluminium A SG High Solar Gain Low-E	5.4	0.49

Window schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Outdoor shade
Kitchen/Living	ALM-004-03 A	n/a	3000	5800	N	No Shading
Kitchen/Living	ALM-004-03 A	n/a	2000	1800	W	No Shading
Kitchen/Living	ALM-004-03 A	n/a	2000	2250	W	No Shading
Master_Bedroom	ALM-004-03 A	n/a	3000	3100	N	No Shading
Bedroom_2	ALM-001-03 A	n/a	2000	1700	W	No Shading
Bedroom_3	ALM-001-03 A	n/a	2000	2100	W	No Shading

Roof window and skylight type and performance value

ID	Window type	U-value	SHGC
None Present			

Roof window and skylight schedule

Location	ID	Roof window/skylight no.	Area (m²)	Orientation	Outdoor shade	Indoor shade/diffuser
None Present						

External wall type

ID	Wall type	Insulation	Wall wrap or foil
EW-1	Cavity Brick	Foil Sided Bubble Wrap, Anti-glare one side	Yes

External wall schedule

Location	ID	Width (mm)	Height (mm)	Orientation	Fixed Shade	Eaves (mm)
Kitchen/Living	EW-1	5895	3000	N	No	3150
Kitchen/Living	EW-1	8495	3000	W	No	150
Master_Bedroom	EW-1	1450	3000	W	No	6100
Master_Bedroom	EW-1	3250	3000	N	No	1700
Bedroom_2	EW-1	2990	3000	W	No	150
Bedroom_3	EW-1	2995	3000	W	No	150

Internal wall type

Wall type	Area (m²)	Insulation	Wall wrap or foil
IW-1 - Single Skin Brick	86.0	No insulation	No
IW-2 - Cavity brick, plasterboard	76.0	No Insulation	No

Floors

Nationwide House Energy Rating Scheme* Certificate

Certificate number: **0003752128-01**

Certificate Date:

04 Oct 2019

★ Star rating:

5.4

Building features continued

Location	Construction	Area (m²)	Sub floor ventilation	Added insulation	Covering
Kitchen/Living	Suspended Concrete Slab 150mm	50.1	Open	No Insulation	60/40 Carpet 10mm/Ceramic
Master_Bedroom	Suspended Concrete Slab 150mm	32.5	Open	No Insulation	60/40 Carpet 10mm/Ceramic
Bedroom_2	Suspended Concrete Slab 150mm	13.4	Open	No Insulation	Carpet 10mm
entry/bathroom/	Suspended Concrete Slab 150mm	27.4	Open	No Insulation	60/40 Carpet 10mm/Ceramic
Bedroom_3	Suspended Concrete Slab 150mm	13.5	Open	No Insulation	Carpet 10mm

Ceiling type

Location	Construction	Added insulation	Roof space above
Kitchen/Living	Concrete, Plasterboard	No insulation	No
Master_Bedroom	Concrete, Plasterboard	No insulation	No
Bedroom_2	Concrete, Plasterboard	No insulation	No
entry/bathroom/	Concrete, Plasterboard	No insulation	No
Bedroom_3	Concrete, Plasterboard	No insulation	No

Ceiling penetrations

Location	Number	Type	Diameter (mm)	Sealed/unsealed
None Present				

Ceiling fans

Location	Number	Diameter (mm)
None Present		

Roof type

Construction	Added insulation	Roof colour
None Present		

Nationwide House Energy Rating Scheme* Certificate

Certificate number: 0003752128-01

Certificate Date: 04 Oct 2019

★ Star rating: 5.4



Additional information

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 the 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 the 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 (NatHERS), visit www.nathers.gov.au

For more information on energy efficient design and insulation visit www.yourhome.gov.au

Nationwide House Energy Rating Scheme* Certificate



Certificate number: 0003752367-02

Certificate Date: 04 Oct 2019

★ Star rating: 5.5

BERS Pro v4.3.0.0 (3.13) cannot be used to model 'roof windows'. Roof windows are 'openable or fixed windows in a roof' and do not have a shaft, as distinct from skylights which incorporate a built-in shaft and are not ventilated. BERS Pro v4.3 can only model skylights. If a roof window is present on the floor plan then this certificate is not valid.

Assessor details

Accreditation

number: 20570

Name: John Caley

Organisation: Ecological Design Pty Ltd

Email: john@ecologicaldesign.com.au

Phone: 0418 262 706

Declaration of interest: The Assessor has provided design advice to the Applicant

Software: BERS Pro v4.3.0.2d (3.13)

AAO: ABSA

Overview

Dwelling details

Street: Unit 6.1.2, 1113 Oxford Falls Road

Suburb: Frenchs Forest

State: NSW

Postcode: 2086

Type: New Dwelling

NCC Class: 1A

NatHERS

climate zone: 56

Lot/DP

number: 752038

Exposure: Suburban

Key construction and insulation materials

(see following pages for details)

Construction: Cavity Brick

Concrete, Plasterboard

Suspended Concrete Slab

Insulation:

Reflective wall insulation

No ceiling insulation

No floor insulation

Glazing:

ALM-004-03 A Aluminium B DG Air Fill

High Solar Gain low-E -Clear

Net floor area (m²)

Conditioned: 103.0

Unconditioned: 11.0

Garage: 0.0

TOTAL: 115.0

Annual thermal performance loads (MJ/m²)

Heating: 42.8

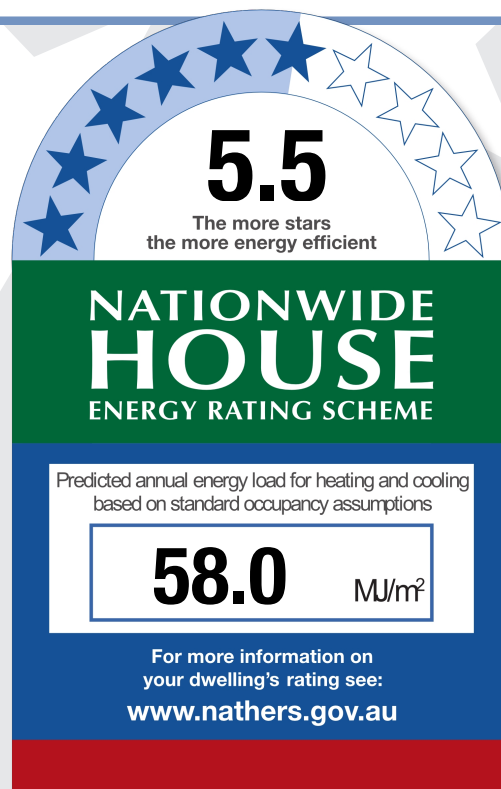
Cooling: 15.2

TOTAL: 58.0

Plan documents

Plan ref/date: Revision L MArchese and Rev A JCA

Prepared by: marchesepartners and John Chetham Associates



Ceiling penetrations

(see following pages for details)

Sealed: 0

Unsealed: 0

TOTAL:** 0

NOTE: This total is the maximum number of ceiling penetrations allowed to a ceiling (under a roof) for this certificate. **If this number is exceeded 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.

Principle downlight type: Unknown

Window selection - default windows only

Note on allowable window values:
Only a 5% tolerance to the nominated SHGC window values shown on page 2 can be used with this rating.

Note: Only a +/- 5% SHGC tolerance is allowed with this rating.

NB: This tolerance ONLY applies to SHGC, the U-value can always be lower but not higher than the values stated on page 2.

If any of windows selected are outside the 5% tolerance then this certificate is no longer valid and the dwelling will need to be rerated to confirm compliance.

Scan to access this certificate online and confirm this is valid.



Nationwide House Energy Rating Scheme* Certificate

Certificate number: 0003752367-02

Certificate Date:

04 Oct 2019

★ Star rating:

5.5



Building features

Window type and performance value

Window ID	Window type	U-value	SHGC
ALM-004-03 A	ALM-004-03 A Aluminium B DG Air Fill High Solar Gain low-E -Clear	4.3	0.53
ALM-001-03 A	ALM-001-03 A Aluminium A SG High Solar Gain Low-E	5.4	0.49

Window schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Outdoor shade
Kitchen/Living	ALM-004-03 A	n/a	2000	2250	E	No Shading
Kitchen/Living	ALM-004-03 A	n/a	2000	1000	E	No Shading
Kitchen/Living	ALM-004-03 A	n/a	2000	1157	E	No Shading
Kitchen/Living	ALM-004-03 A	n/a	3000	5900	N	No Shading
Master_Bedroom	ALM-004-03 A	n/a	3000	3200	N	No Shading
Master_Bedroom	ALM-004-03 A	n/a	3000	2100	E	No Shading
Bedroom_2	ALM-001-03 A	n/a	2000	2800	E	No Shading

Roof window and skylight type and performance value

ID	Window type	U-value	SHGC
None Present			

Roof window and skylight schedule

Location	ID	Roof window/skylight no.	Area (m²)	Orientation	Outdoor shade	Indoor shade/diffuser
None Present						

External wall type

ID	Wall type	Insulation	Wall wrap or foil
EW-1	Cavity Brick	Foil Sided Bubble Wrap, Anti-glare one side	Yes

External wall schedule

Location	ID	Width (mm)	Height (mm)	Orientation	Fixed Shade	Eaves (mm)
Kitchen/Living	EW-1	8895	3000	E	No	125
Kitchen/Living	EW-1	5895	3000	N	No	3000
Master_Bedroom	EW-1	3250	3000	N	No	800
Master_Bedroom	EW-1	2200	3000	E	No	6050
Bedroom_2	EW-1	2995	3000	E	No	150
Bedroom_2	EW-1	3645	3000	S	No	200
Laundry/bathroo	EW-1	5445	3000	S	No	200

Internal wall type

Wall type	Area (m²)	Insulation	Wall wrap or foil
IW-1 - Single Skin Brick	82.0	No insulation	No
IW-2 - Cavity brick, plasterboard	43.0	No Insulation	No

Nationwide House Energy Rating Scheme* Certificate

Certificate number: **0003752367-02**

Certificate Date:

04 Oct 2019

★ Star rating:

5.5

Building features continued

Floors

Location	Construction	Area (m ²)	Sub floor ventilation	Added insulation	Covering
Kitchen/Living	Suspended Concrete Slab 150mm	51.3	Open	No Insulation	60/40 Carpet 10mm/Ceramic
Master_Bedroom	Suspended Concrete Slab 150mm	32.4	Open	No Insulation	60/40 Carpet 10mm/Ceramic
Bedroom_2	Suspended Concrete Slab 150mm	10.9	Open	No Insulation	Carpet 10mm
Laundry/bathroo	Suspended Concrete Slab 150mm	11.4	Open	No Insulation	Ceramic Tiles 8mm
storage	Suspended Concrete Slab 150mm	8.5	Open	No Insulation	60/40 Carpet 10mm/Ceramic

Ceiling type

Location	Construction	Added insulation	Roof space above
Kitchen/Living	Concrete, Plasterboard	No insulation	No
Master_Bedroom	Concrete, Plasterboard	No insulation	No
Bedroom_2	Concrete, Plasterboard	No insulation	No
Laundry/bathroo	Concrete, Plasterboard	No insulation	No
storage	Concrete, Plasterboard	No insulation	No

Ceiling penetrations

Location	Number	Type	Diameter (mm)	Sealed/unsealed
None Present				

Ceiling fans

Location	Number	Diameter (mm)
None Present		

Roof type

Construction	Added insulation	Roof colour
None Present		

Nationwide House Energy Rating Scheme* Certificate

Certificate number: 0003752367-02

Certificate Date: 04 Oct 2019

★ Star rating: 5.5



Additional information

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 the 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 the 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 (NatHERS), visit www.nathers.gov.au

For more information on energy efficient design and insulation visit www.yourhome.gov.au