Nationwide House Energy Rating Scheme® Class 1 Summary NatHERS® Certificate No. #HR-ECADZG-01 Generated on 18 Jun 2024 using Hero 4.0 Property Address 1530 Henry Lawson Drive, St Fillans, NSW, 2850 Lot/DP Lot: 1 - DP: 1190672 NatHERS climate zone 65 - Orange AP NATIONWIDE

HOUSE ENERGY RATING SCHEME

The rating above is the minimum

Whole of Home performance rating

No Whole of Home

performance rating generated for this

certificate or not

completed for all

dwellings.

Accredited assessor

Name Manuel Basiri
Business name Eco Certificates Pty Ltd
Email manuel@ecocertificates.com.au
Phone +61 432471536
Accreditation No. DMN/12/1462

Accreditation No.
Assessor Accrediting
Organisation

Verification

To verify this certificate, scan the QR code or visit http://www.hero-software.com.au/pdf/HR-ECADZG-01.

When using either link, ensure you are visiting

http://www.hero-software.com.au

National Construction Code (NCC) requirement

The NCC allows the use of NatHERS accredited software to comply with the energy efficiency requirements for houses (Class 1 buildings) and apartments (Class 2 sole-occupancy units and Class 4 parts of buildings). The applicable requirements for houses are detailed in Specification 42 of NCC Volume Two. For apartments the requirements are detailed in clauses J3D3 and J3D15 of NCC Volume One.

NCC 2022 includes enhanced thermal performance requirements for houses and apartments. It also includes a new whole-of-home annual energy use budget which applies to the major equipment in the home.

The NCC, and associated ABCB Standards and support material, can be accessed at www.abcb.gov.au.

Note, variations and additions to the NCC energy efficiency requirements may apply in some states and territories.

Summary of all dwellings

Certificate number and link	Unit Number	Heating load (load limit) (MJ/m².yr)	Cooling load (load limit) (MJ/m².yr)	Total load (MJ/m².yr)	Star Rating	Whole of Home Ratin
HR-9JJUCA-01	Dwelling 1	134.4 (150)	17.1 (37)	151.5	7.1	n/a
HR-S7YX6D-01	Dwelling 2	139.3 (150)	13.7 (18)	153.1	7.1	n/a

Nationwide House Energy Rating Scheme (NatHERS) is an initiative of the Australian, state and territory governments. For more details see www.nathers.gov.au Generated on 18 Jun 2024 using Hero 4.0 for 1530 Henry Lawson Drive, St Fillans, NSW, 2850

Page 1 of 2

1530 HENRY LAWSON DRIVE

Lot 1 DP 1190672

<u>DUAL OCCUPANCY (detached)</u>

<u>WITH POOLS AND DAM</u>



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REV. DATE COMMENTS

1 23.04.24 DA DRAWINGS

20.06.24 Dam Details, Pool Details, BASIX, Strata Plan

BY CHK SR SR

DUAL OCCUPANCY (detached) WITH POOLS, & DAM

PROJECT ADDRES

Address: 1530 HENRY LAWSON DR, ST FILLANS NSW 2850 Client: K & S REDWOOOD

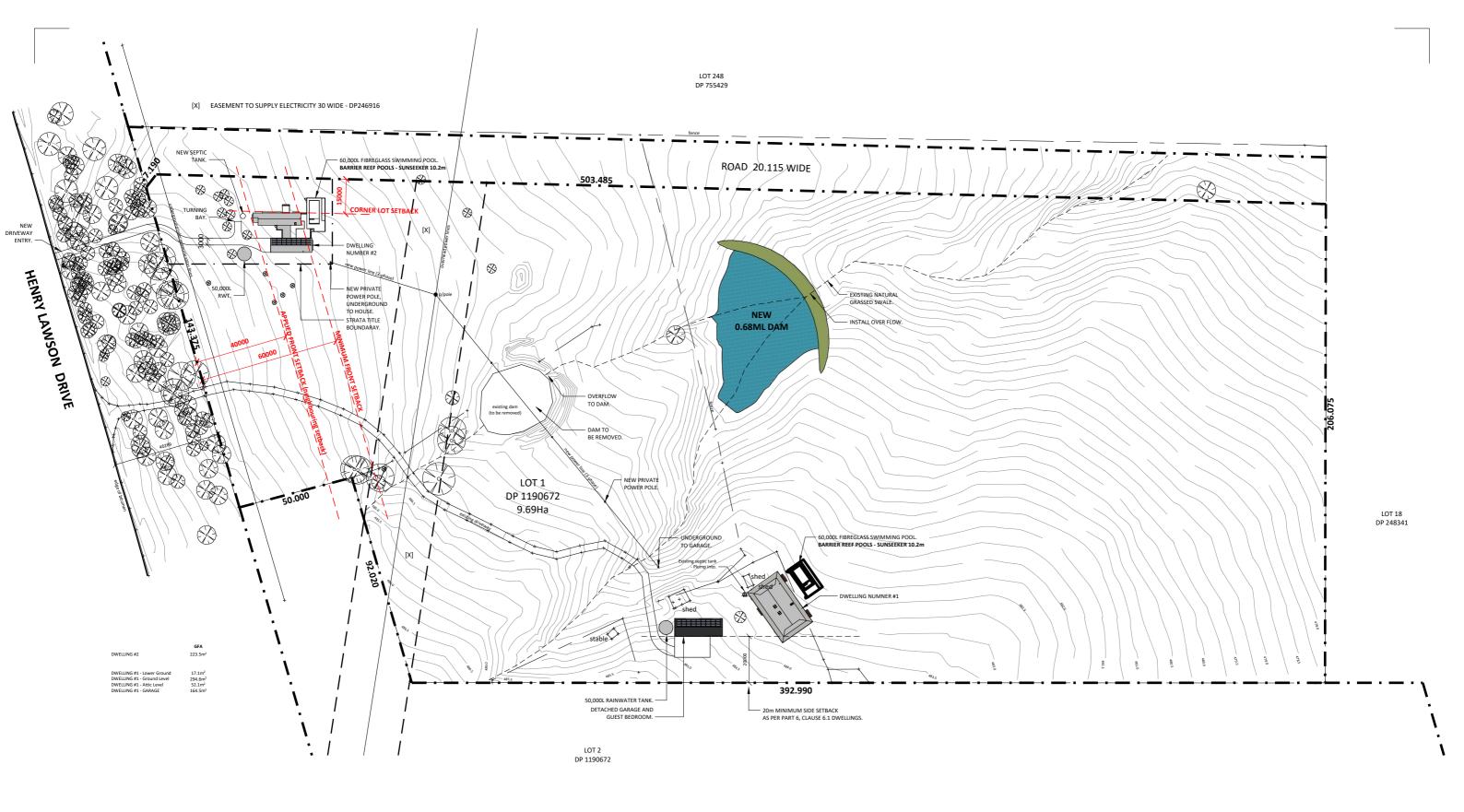
PROJECT NUMBER

#001.2024

COVER SHEET

DRAWING NUMBER

A-00



SITE LAYOUT PLAN

Scale 1:1500 @ A3

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1 23.04.24 DA DRAWINGS 2 20.06.24 Dam Details, Pool Details, BASIX, Strata Plan BY CHK

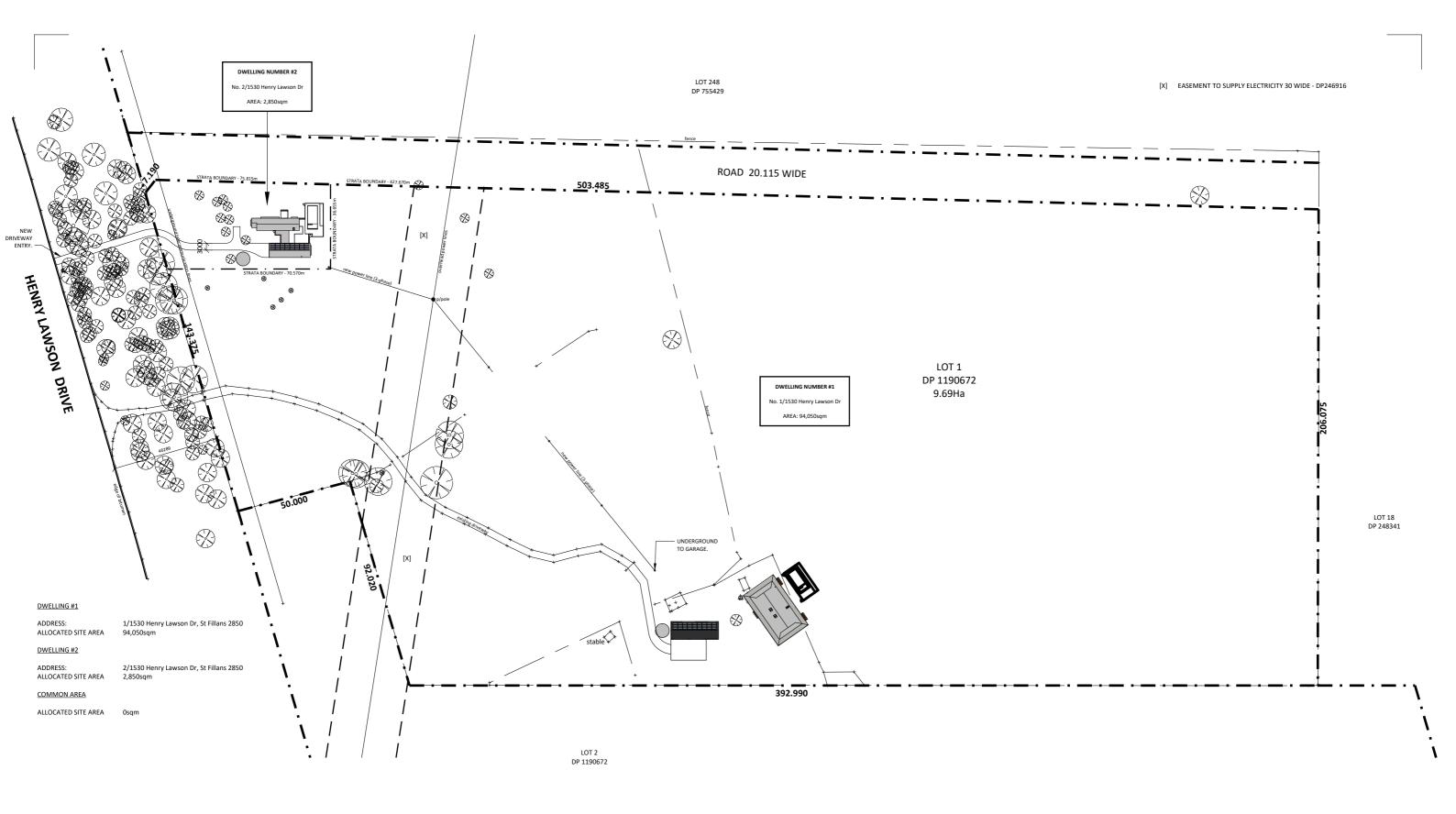
DUAL OCCUPANCY (detached) WITH POOLS, & DAM

Address: 1530 HENRY LAWSON DR, ST FILLANS NSW 2850 Client: K & S REDWOOOD

PROJECT NUMBER

#001.2024

SITE PLAN



STRATA PLAN

Scale 1:1500 @ A3

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REV. DATE COMMENTS

1 23.04.24 DA DRAWINGS

2 20.06.24 Dam Details, Pool Details, BASIX, Strata Plan

DUAL OCCUPANCY (detached) WITH POOLS, & DAM

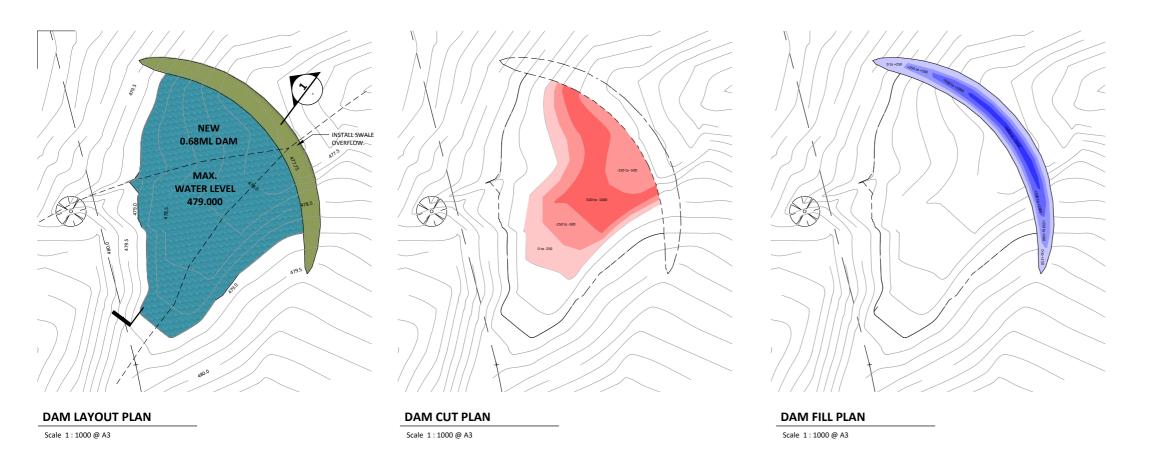
Address: 1530 HENRY LAWSON DR, ST FILLANS NSW 2850 Client: K & S REDWOOOD

PROJECT NUMBER

#001.2024



STRATA SITE PLAN



- EXCAVATED LEVEL NATURAL GROUND LEVEL.

 MAX WATER DEPTH. - DAM WALL. CONTROLLED FILL AS PER GEOTECH REQUIREMENTS. MAX. DAM WALL LEVEL 479.500 MAX. WATER LEVEL 479.000

DAM LONG SECTION

Scale 1:150 @ A3

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1 23.04.24 DA DRAWINGS 2 20.06.24 Dam Details, Pool Details, BASIX, Strata Plan

BY CHK SR SR

TITLE:

DAM CUT & FILL PLAN & LONG SECTION

DUAL OCCUPANCY (detached) WITH POOLS, & DAM

DRAWING NUMBER

PROJECT ADDRESS

Address: 1530 HENRY LAWSON DR, ST FILLANS NSW 2850 Client: K & S REDWOOOD

PROJECT NUMBER

#001.2024



BASIX Certificate



Project summary		
Project name	5125 - 1530 Henry Lawson D 2850_02	rive, St Fillans
Street address	1530 HENRY LAWSON DRIV 2850	E ST FILLANS
Local Government Area	MID-WESTERN REGIONAL	
Plan type and plan number	Deposited Plan 1190672	
Lot No.	1	
Section no.	5	
No. of residential flat buildings	0	
Residential flat buildings: no. of dwellings	0	
Multi-dwelling housing: no. of dwellings	2	
No. of single dwelling houses	0	
Project score		
Water	✓ 54	Target 30
Thermal Performance	✓ Pass	Target Pass
Energy	✔ 83	Target 61
Materials	✓ -74	Target n/a

Certificate Prepared by	
Name / Company Name: ECO CERTIFICATES PTY LTD	
The state of the s	

ABN (f applicable): 82166705488

Description of project

Project address	
Project name	5125 - 1530 Henry Lawson Drive, St Fillans 2850_02
Street address	1530 HENRY LAWSON DRIVE ST FILLANS 2850
Local Government Area	MID-WESTERN REGIONAL
Plan type and plan number	Deposited Plan 1190672
Lot No.	1
Section no.	
Project type	
No. of residential flat buildings	0
Residential flat buildings: no. of dwellings	0
Multi-dwelling housing: no. of dwellings	2
No. of single dwelling houses	0
Site details	
Site area (m²)	96900
Roof area (m²)	700

Common area landscape		
Common area lawn (m²)	100	
Common area garden (m²)	100	
Area of indigenous or low water use species (m²)	100	
Assessor details and them	nal loads	
Assessor number	DMN/12/1462	
Certificate number	HR-ECADZG-01	
Climate zone	65	
Project score		
Water	√ 54	Target 30
Thermal Performance	✓ Pass	Target Pa
Energy	✓ 83	Target 61
	⊌ -74	

No common areas specified.

Schedule of BASIX commitments

(i) Water	Show on DA plans	Show on CC/CDC plans & specs	Certifie check
(a) The applicant must comply with the commitments listed below in carrying out the development of a dwelling listed in a table below.			
(b) The applicant must plant indigenous or low water use species of vegetation throughout the area of land specified for the dwelling in the "Indigenous species" column of the table below, as private landscaping for that dwelling. (This area of indigenous vegetation is to be contained within the "Area of garden and lawn" for the dwelling specified in the "Description of Project" table.)	~	~	
(c) If a rating is specified in the table below for a fixture or appliance to be installed in the dwelling, the applicant must ensure that each such fixture and appliance meets the rating specified for it.		V	~
(d) The applicant must install an on demand hot water recirculation system which regulates all hot water use throughout the dwelling, where indicated for a dwelling in the "HW recirculation or diversion" column of the table below.		>	~
(e) The applicant must install:			
(aa) a hot water diversion system to all showers, kitchen sinks and all basins in the dwelling, where indicated for a dwelling in the "HW recirculation or diversion" column of the table below, and		~	V
(bb) a separate diversion tank (or tanks) connected to the hot water diversion systems of at least 100 litres. The applicant must connect the hot water diversion tank to all toilets in the dwelling.		V	V
(e) The applicant must not install a private swimming pool or spa for the dwelling, with a volume exceeding that specified for it in the table below.	V	V	
(f) If specified in the table, that pool or spa (or both) must have a pool cover or shading (or both).		~	
(g) The pool or spa must be located as specified in the table.	V	~	
(ii) The applicant must install, for the dwelling, each alternative water supply system, with the specified size, listed for that dwelling in the table below. Each system must be configured to collect run-off from the areas specified (excluding any area which supplies any other alternative water supply system), and to divert overflow as specified. Each system must be connected as specified.	~	~	~

	Fixtures					Appli	Appliances Individual pool				Individual spa			
Dwelling no.	shower-	All toilet flushing systems	kitchen taps	All bathroom taps	recirculation	All clothes washers	All dish- washers	Volume (max volume)	Pool cover	Pool location	Pool shaded	Volume (max volume)	Spa cover	Spa shade
All dwellings	4 star (> 6 but <= 7.5 L/min)	4 star	4 star	4 star		-	-	60	yes	outdoors	no	-	-	-

Dwelling no.	Alternative water supply systems	Size	Configuration	Landscape connection	Toilet connection (s)	Laundry		Spa top-up
All dwellings	Individual water tank (No. 1)	Tank size (min) 50000 liters	To collect run-off from at least: 250 square metres of roof area; 0 square metres of impervious area; 0 square metres of garden and lawn area; and 0 square metres of planter box area.	yes	no	yes	yes	yes
All dwellings	Individual water tank (No. 2)	Tank size (min) 50000 liters	To collect run-off from at least: 50 square metres of roof area; 0 square metres of impervious area; 0 square metres of garden and lawn area; and 0 square metres of planter box area.	yes	yes	no	yes	yes
(ii) Energy							Show on CC/CDC plans & specs	Certifier check

(II) Energy	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(a) The applicant must comply with the commitments listed below in carrying out the development of a dwelling listed in a table below.			
(b) The applicant must install each hot water system specified for the dwelling in the table below, so that the dwelling is hot water is supplied by that system. If the table specifies a central hot water system for the dwelling, then the applicant must connect that central system to the dwelling, so that the dwelling is hot water is supplied by that central system.	~	~	~
(c) The applicant must install, in each bathroom, kitchen and laundry of the dwelling, the ventilation system specified for that room in the table below. Each such ventilation system must have the operation control specified for it in the table.		~	V
(6) The applicant must install the cooling and heating system's specified for the dwelling under the "Living seesa" and "Educion areas" headings of the "Cooling" and "Heating" columns in the table below, infor at least 1 limphetocome send of the dwelling. If no cooling or heating system is specified in the table for "Living seesa" or "Bedroom seesa", then no systems may be installed in any better than the system stall provided the system stall provided the system stall provided for daryingth connections to see the system stall provided for daryingth connections to see the system stall provided for daryingth connections.		~	~

BASIX Department of Planning, Housing and www.basix.nsw.gov.au Version: 4.03 / EUCAL/YPTUS_03_01_0 Certificate No.: 1751993M_02 Tuesday, 18 June 2024 page 8/17 Infrastructure

ii) Energy	Show on DA plans	Show on CC/CDC plans & specs	Certi
(e) This commitment applies to each room or area of the dwelling which is referred to in a heading to the "Artificial lighting" column of the table below (but only to the extent specified for that room or area). The applicant must ensure that the "principle righting" for each with room in the "extension" pice affecting of light entiting loods (EED) lighting (if the term) "declosed" is specified for a particular room or area, then the light fittings in that room or area must only be capable of being used for fluorescent lighting or light entiting dode (EED) lighting.		~	٧
(f) This commitment applies to each room or area of the dwelling which is referred to in a heading to the "Natural lighting" column of the table below (but only to the extent specified for that room or area). The applicant must ensure that each such room or area is fitted with a window and/or skylight.	~	~	٧
(g) This commitment applies if the applicant installs a water heating system for the dwelling's pool or spa. The applicant must:			
(aa) install the system specified for the pool in the "Individual Pool" column of the table below (or alternatively must not install any system for the pool). If specified, the applicant must install a timer, to control the pool's pump; and		~	
(bb) install the system specified for the spa in the "Individual Spa" column of the table below (or alternatively must not install any system for the spa). If specified, the applicant must install a timer to control the spa's pump.		~	
(h) The applicant must install in the dwelling:			
(aa) the kitchen cook-top and oven specified for that dwelling in the "Appliances & other efficiency measures" column of the table below,		~	
(bb) each appliance for which a rating is specified for that dwelling in the "Appliances & other efficiency measures" column of the table, and ensure that the appliance has that minimum rating; and		~	V
(cc) any clothes drying line specified for the dwelling in the "Appliances & other efficiency measures" column of the table.		~	
(i) If specified in the table, the applicant must carry out the development so that each refrigerator space in the dwelling is "well ventilated".		V	
(i) The applicant must install the photovoltaic system specified for the dwelling under the "Photovoltaic system" heading of the "Alternative energy" column of the table below, and connect the system to that dwelling's electrical system.	¥	~	٧

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REV. DATE COMMENTS

2 20.06.24 Dam Details, Pool Details, BASIX, Strata Plan

BY CHK

SR SR

DUAL OCCUPANCY (detached) WITH POOLS, & DAM

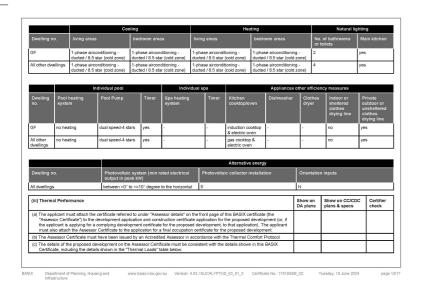
Address: 1530 HENRY LAWSON DR, ST FILLANS NSW 2850 Client: K & S REDWOOOD

PROJECT NUMBER

#001.2024

BASIX REQUIREMENTS - 1 of 2

DRAWING NUMBER



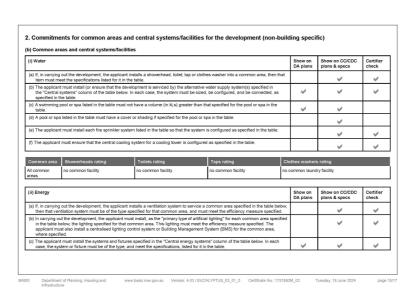
(iii) Thermal Perforr	nance					Show on DA plans	Show on CC/CDC plans & specs	Certifier check
the Thermal Com	fort Protocol re			for the proposed development, all ust bear a stamp of endorsement		~		
certificate, if appl	icable), all ther		ecifications set out in the Asses	tion certificate (or complying devel ssor Certificate, and all aspects of			~	
Certificate, and in	accordance v		the development application or	mance specifications set out in the r application for a complying devel			>	~
(g) Where there is an	in-slab heatin	g or cooling system	, the applicant must:			~	V	~
(aa) Install insulation with an R-value of not less than 1.0 around the vertical edges of the perimeter of the slab; or								
	pended floor, i f the perimeter		an R-value of not less than 1.0	underneath the slab and around	he vertical			
(h) The applicant mu	st construct the	e floors and walls of	the development in accordance	with the specifications listed in the	e table below.	V	~	¥
 The applicant must ceiling fans set o 			g The development application	for The proposed development, T	ne locations of	V		
			g the application for a constructi s set out in the Assessor Certific	ion certificate (or complying develo cate.	pment		>	
				Thermal loads				
Dwelling no.		Area adjusted h	eating load (in MJ/m²/yr)	Area adjusted cooling load (in	MJ/m²/yr)	Area adjus	ted total load (in MJ/r	n²/yr)
3F		139.3		13.7		153.000		
All other dwellings		134.4		17.1		151.500		
				Construction of floors and wa	lis			
Dwelling no.	Concrete (m²)	slab on ground	Suspended floor with open subfloor (m²)	Suspended floor with enclosed subfloor (m²)	Suspended garage (m²)	floor above	Primarily ramm mudbrick walls	
3F	218.4			-	-		no	
All other dwellings	87.2			263.3		00		

	Floor types Concrete slab on gro					Commended Se	or above enclo		6	led floor above		
Dwelling no.	Area (m²)	Insulation	Low emissions option	Dematerial 3	lisation	Construction type	Area (m²)	Insulation	Constructio type	n Area (m²)	Insulation	
GF	218.4		-	waffle pod s	lab	-	[-]·		-	-	-	
All other dwellings	87.2	-	-	waffle pod s		hard wood, frame: timber - untreated softwood	263.3	oolystyrene	-	-	-	
	Floor types											
	First floor above h			Suspende	Suspended floor above		irage		Garage flo	or		
Dwelling no.	Construction type	Area (m²)	Insulation	Construction type	Area (m	2) Insulation	Construction type	Area (m²)	Insulation	Low emissions option	Dematerialisat	
All dwellings	-	-	-			-	-	0	-	-	conventional sla	
	Externa	ıl walls										
			External	wall type 1					External wall ty	pe 2		
Dwelling no.	Wall ty	oe A	rea (m²)	Insulation		w emissions ition	Wall type	Area (m²)	Insu	ılation	Low emissions option	
GF	framed (cement s boards), timber - softwood	sheet or frame : untreated	5.3	fibreglass batts or roll			-	-	-		-	
All other dwelli	cement : boards),	s framed (fibre cement sheet or boards), frame : timber - untreated		fibreglass batts or roll			-	-	-			

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		Exte	rnal wall type 3						External wa	all type 4	
Dwelling no.	Wall type	Area (m²)	Insulation	Low emis	sions	Wall ty	pe	Area	(m ²)	Insulation	Low emissions option
All dwellings		1.	-						į.		-
	Internal walls										
	Interna	l walls shared wi	th garage		Internal	wall type	1			Internal wall ty	pe 2
Dwelling no.	Wall type	Area (m²)	Insulation	Wall type	Area (r	m²)	Insulation	n	Wall type	Area (m²)	Insulation
GF	-	-	-	plasterboard, frame: timber - untreated softwood	145.3		fibreglass or roll	batts	-	-	-
All other dwellings	-	-	-	plasterboard, frame: timber - untreated softwood	200.7		fibreglass or roll	batts	-	-	
	Ceiling and roo	f									
	Fla	t ceiling / pitched	i roof	Raked cei	iling / pit	ched or s	killion roof			Flat ceiling / fla	t roof
Dwelling no.	Construction type	Area (m²)	Insulation	Construction type	Area (ı		Insulation		Construction type	n Area (m²)	Insulation
GF	-	-	Ceiling:,Roof:	-	-		Ceiling:,Ro	oof:	framed - metal roof, frame: timber - untreated softwood	250	Ceiling.fibregla batts or roll,Roof:
	framed -	450	Ceiling fibreglass batts or	-	ŀ		Ceiling:,Ro	oof:	-	-	Ceiling:,Roof:

		Glazing type				Frame types		
Dwelling no.	Single glazing (m²)	Double glazing (m ²)	Triple glazing (m²)	Aluminium frames (m²)	Timber frames (m²)	uPVC frames (m²)	Steel frames (m²)	Composite frames (m²)
GF	34.1	ļ-	-	34.1	-	[-	-	1-
All other dwellin	gs 68.3	-	-	68.3	-	-	-	-
IX Departm	ent of Planning, Housing and	www hasiv now	ooy au Version: 4	.03 /EUCALYPTUS_03_	11 D Cartificate N	o:1751993M 02	Tuesday, 18 June	2024 pag



Cent	ral energy systems	Туре	Specification			
Other	i					
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BASIX	Department of Planning, Housing and Infrastructure	www.basix.nsw.gov.au \	/ersion: 4.03 / EUCALYPTUS_03_01_0	Certificate No.: 1751993M_02	Tuesday, 18 June 2024	page 16/17

. III triese communents,	applicant" means the person carrying out the development.
specifications accompa	tify each dwelling, building and common area listed in this certificate, on the plans accompanying any development application, and on the plans and nying the application for a construction certificate / complying development certificate, for the proposed development, using the same identifying letter or that develling, building or common area in this certificate.
and non-residential pur	reposed development involves the erection of a building for both residential and non-residential purposes (or the change of use of a building for both residential push commitments in this certificate which are specified to apply to a "common area" of a building or the development, apply only to that part of the building end for residential pumposes.
. If this certificate lists a o system need only be in	entral system as a commitment for a dwelling or building, and that system will also service any other dwelling or building within the development, then that stalled once (even if it is separately listed as a commitment for that other dwelling or building).
If a star or other rating is	specified in a commitment, this is a minimum rating.
NSW Health does not r	tems to be installed under these commitments (if any), must be installed in accordance with the requirements of all applicable regulatory authorities. NOTE: ecommend that stormwater, recycled water or private dam water be used to irrigate edible plants which are consumed raw, or that rainwater be used for hums with potable water supply.
Commitments identified	
development applicatio	with a "V" in the "Show on DA plans" column must be shown on the plans accompanying the development application for the proposed development (if a n is to be lodged for the proposed development).
development application Commitments identified	with a "\"" in the "Show on DA plans" column must be shown on the plans accompanying the development application for the proposed development, is to be lodged for the proposed development. with a "\"" in the "Show on CDCDC plans and specif column must be shown in the plans and specifications accompanying the application for a construction revelopment.
development application Commitments identified certificate / complying of commitments identified occupation certificate (e	n is to be lodged for the proposed development). with a "\sum "in the "Show on CCICDC plans and specs" column must be shown in the plans and specifications accompanying the application for a construction
development application Commitments identified certificate / complying of commitments identified occupation certificate (e	is to be logisd for the proposed development). With a "\" in the "Shown CC/CDC plans and specs" column must be shown in the plans and specifications accompanying the application for a construction elevelopment certificate for the proposed development. with a "\" in the "Certifier cheek" column must be certified by a certifying authority as having been fulfilled. (Note: a certifying authority must not issue an elevent reterior for alloy for a building listed in the certificate, or for any part of such a building, unless it is saided that each of the commitments whose billiment.
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REV. DATE COMMENTS

1 23.04.24 DA DRAWINGS

2 20.06.24 Dam Details, Pool Details, BASIX, Strata Plan

DUAL OCCUPANCY (detached) WITH POOLS, & DAM

DRAWING NUMBER

A-05a

BASIX REQUIREMENTS - 2 of 2

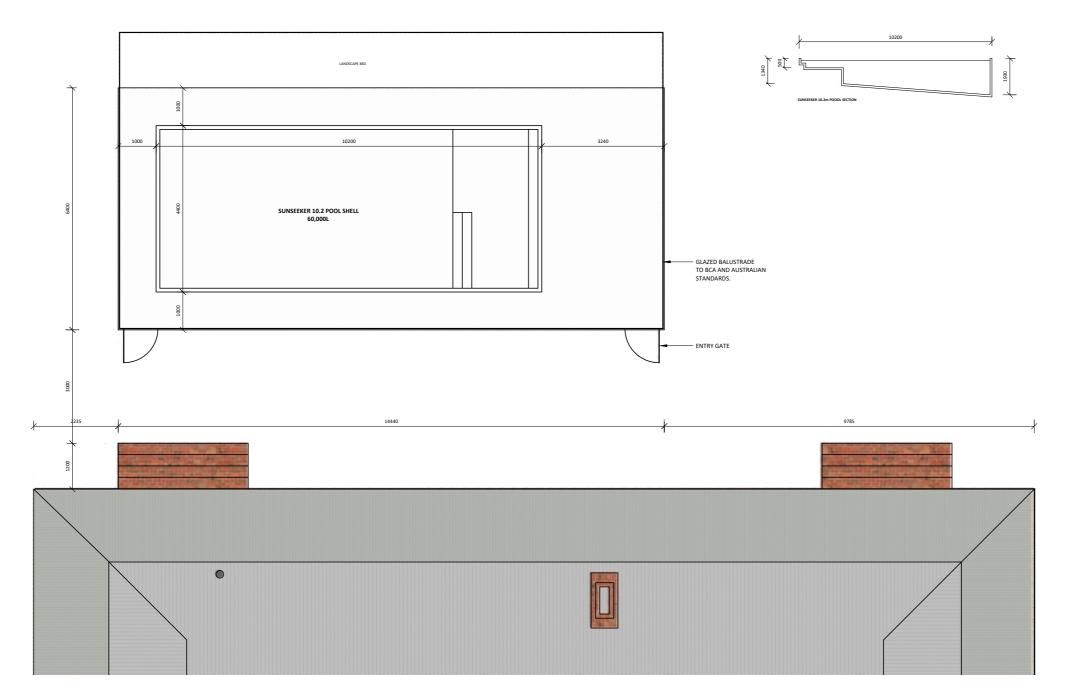
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#001.2024

PROJECT NUMBER



Pool Safety barriers to be in accordance with AS 1926.1 as summarised below: Pool Fence Non Climable Zone A fence must have a Non Climable Zone (NCZ) of 900mm on the outside of the pool fence all the way around.

NOTE: Tim tress or shrubs near the pool fence and other objects such as BBQ, pot plants, toys, ladders and chairs should not enrorach within the NCZ area. The following NCZs shall be present on all barriers with a height less than 1800 mm:

pot plants, toys, ladders and chairs should not encroach within the NCZ area. The following NCZs shall be present on all barriers with a height less than 1800 mills of the plane on the outside face of a barrier. This NCZ may be located anywhere within the perpendicular height of a barrier or, where present, anywhere between horizontal components or handholds and footholds on a barrier. In the plants of the control of the properties of the plants of the NCZ is a quadrant on the outside of a barrier created by a 900 mm radius of the plants of the NCZ is a days in medicately adjacent to NCZ 1 on all barriers. c) NCZ is a quadrant on the outside of a barrier created by a 900 mm radius up from the top of the barrier. When the top of NCZ 1 is below the top of a barrier then NCZ 3 shall extend vertically down to the top of NCZ 1 is possible only to the space created by the component on, or that is part of the therier of the plants of

will be measured from the inside (pool side) of the fence.
NOTE:
Climbable objects or surfaces should not necroach on the 900mm non climbable
zone on the inside of Boundary Fences
(1.8m).
(1.8m).
Climbable objects or surfaces the surface of the s

MAIN HOUSE - POOL LAYOUT

Scale 1:100@A3

e: contactus@elementce.com.au w: www.elementce.com.au

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Do not scale drawings. Use figured dimensions only. Check and verify levels and dimensions on site prior to commencement of any work, the preparation of shop drawings or the fabrication of components.

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1 23.04.24 DA DRAWINGS 2 20.06.24 Dam Details, Pool Details, BASIX, Strata Plan

BY CHK

SR SR SR SR

DUAL OCCUPANCY (detached) WITH POOLS, & DAM

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Address: 1530 HENRY LAWSON DR, ST FILLANS NSW 2850 Client: K & S REDWOOOD

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#001.2024

A-11a

MAIN DWELLING - POOL LAYOUT

