BASIX Certificate

Building Sustainability Index www.basix.nsw.gov.au	Project name	Tracey & Jason Lapin - 92 River Road Emu Plains
Single Dwelling	Street address	92 RIVER Road EMU PLAINS 2750
Children P Monning	Local Government Area	Penrith City Council
Certificate number: 1195579S	Plan type and plan number	deposited 1247788
	Lot no.	12
This certificate confirms that the proposed development will meet the NSW	Section no.	-
government's requirements for sustainability, if it is built in accordance with the commitments set out below. Terms used in this certificate, or in the commitments.	Project type	separate dwelling house
have the meaning given by the document entitled "BASIX Definitions" dated	No. of bedrooms	4
10/09/2020 published by the Department. This document is available at		
	Project score	
www.basix.nsw.gov.au	Water	✓ 40 Target 40
		✓ 40 Target 40 ✓ Pass Target Pass
www.basix.nsw.gov.au Secretary Date of issue: Friday, 07 May 2021	Water	• • • • • • • • • • • • • • • • • • • •

Version: 3.0 / DARWINIA. 3.16.6 Certificate No.: 1195579S

Thermal Comfort Commitments		Show on DA plans	Show on CC/CDC plans & specs	Certifier check
Simulation Method				
The applicant must attach the certificate referred to under "Assessor Details" on the front page Certificate" to the development application and construction certificate application for the proy applying for a complying development certificate for the proposed development, to that applic Sessesor Certificate to the application for an occupation certificate for the proposed developm	posed development (or, if the applicant is ation). The applicant must also attach the			
The Assessor Certificate must have been issued by an Accredited Assessor in accordance wi	th the Thermal Comfort Protocol.			
The details of the proposed development on the Assessor Certificate must be consistent with certificate, including the Cooling and Heating loads shown on the front page of this certificate.				
The applicant must show on the plans accompanying the development application for the pro Assessor Certificate requires to be shown on those plans. Those plans must bear a stamp of Assessor to certify that this is the case. The applicant must show on the plans accompanying certificate (or complying development certificate, if applicable), all thermal performance specifi certificate, and all aspects of the proposed development which were used to calculate those s	endorsement from the Accredited the application for a construction ications set out in the Assessor	~	~	~
The applicant must construct the development in accordance with all thermal performance sp Certificate, and in accordance with those aspects of the development application or application which were used to calculate those specifications.			~	~
The applicant must construct the floors and walls of the dwelling in accordance with the specif	fications listed in the table below.	~	~	~
Floor and wall construction	Area			
Floor and wall construction floor - concrete slab on ground	Area 280.0 square metres			

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Friday, 07 May 2021

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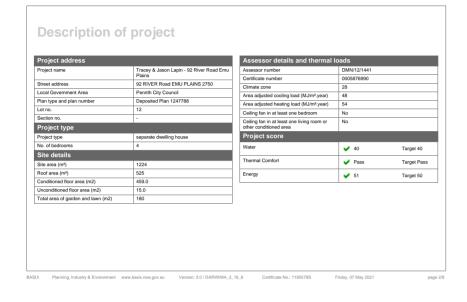
Certificate Prepared by Name / Company Name: Frys Energywise	
ABN (if applicable): 631418543	

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BASIX

Project summary



Energy Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
Hot water			
The applicant must install the following hot water system in the development, or a system with a higher energy rating: gas instantaneous with a performance of 6 stars.	~	~	~
Cooling system			
The applicant must install the following cooling system, or a system with a higher energy rating, in at least 1 living area: 1-phase airconditioning; Energy rating: EER 3.0 - 3.5		~	~
The applicant must install the following cooling system, or a system with a higher energy rating, in at least 1 bedroom: 1-phase airconditioning; Energy rating: EER 3.0 - 3.5		~	~
The cooling system must provide for day/night zoning between living areas and bedrooms.		~	~
Heating system			
The applicant must install the following heating system, or a system with a higher energy rating, in at least 1 living area: 1-phase airconditioning; Energy rating; EER 3.0 - 3.5		~	~
The applicant must install the following heating system, or a system with a higher energy rating, in at least 1 bedroom: 1-phase airconditioning; Energy rating: EER 3.0 - 3.5		~	~
The heating system must provide for day/night zoning between living areas and bedrooms.		~	~
Ventilation			
The applicant must install the following exhaust systems in the development:			
At least 1 Bathroom: individual fan, ducted to façade or roof; Operation control: manual switch on/off		~	~
Kitchen: individual fan, ducted to façade or roof; Operation control: manual switch on/off		 	~
Laundry: natural ventilation only, or no laundry; Operation control: n/a		 	~
Artificial lighting			
The applicant must ensure that the "primary type of artificial lighting" is fluorescent or light emitting diode (LED) lighting in each of the following rooms, and where the word "dedicated" appears, the fittings for those lights must only be capable of accepting fluorescent or light emitting diode (LED) amps:			
at least 5 of the bedrooms / study; dedicated		~	~
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e commitments set out below regulate how the proposed development is to be carried out. It is a condition of any development certificate issued, for the proposed development, that BASIX commitments be complied with.	opment consen	t granted, or complyi	ng
Vater Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
Fixtures			
"he applicant must install showerheads with a minimum rating of 3 star (> 7.5 but <= 9 L/min) in all showers in the development.		~	~
he applicant must install a toilet flushing system with a minimum rating of 4 star in each toilet in the development.		 Image: A set of the set of the	~
The applicant must install taps with a minimum rating of 4 star in the kitchen in the development.		 Image: A set of the set of the	
The applicant must install basin taps with a minimum rating of 4 star in each bathroom in the development.		 Image: A second s	
Alternative water			
Rainwater tank			
The applicant must install a rainwater tank of at least 3000 litres on the site. This rainwater tank must meet, and be installed in accordance with, the requirements of all applicable regulatory authorities.	~	 	~
The applicant must configure the rainwater tank to collect rain runoff from at least 525 square metres of the roof area of the levelopment (excluding the area of the roof which drains to any stormwater tank or private dam).		 	~
The applicant must connect the rainwater tank to:			
all toilets in the development		 	~
the cold water tap that supplies each clothes washer in the development		 	
 at least one outdoor tap in the development (Note: NSW Health does not recommend that rainwater be used for human consumption in areas with potable water supply.) 		~	~
Swimming pool			
The swimming pool must not have a volume greater than 73 kilolitres.	~	~	
The swimming pool must have a pool cover.			

Energy Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifie check
at least 5 of the living / dining rooms; dedicated		_	~
the kitchen; dedicated			
all bathrooms/toilets; dedicated		L L	
the laundry; dedicated			
all hallways; dedicated		Ĵ	U
Natural lighting			
The applicant must install a window and/or skylight in the kitchen of the dwelling for natural lighting.	~	~	~
The applicant must install a window and/or skylight in 5 bathroom(s)/toilet(s) in the development for natural lighting.	~	~	~
Swimming pool			
The development must not incorporate any heating system for the swimming pool.		~	
The applicant must install a timer for the swimming pool pump in the development.		~	
Alternative energy	_	1	
The applicant must install a photovoltaic system with the capacity to generate at least 2 peak kilowatts of electricity as part of the sevelopment. The applicant must connect this system to the development's electrical system.	~	~	~
Other			
The applicant must install a gas cooktop & electric oven in the kitchen of the dwelling.		~	
The applicant must construct each refrigerator space in the development so that it is 'well ventilated', as defined in the BASIX definitions.		~	
			<u> </u>

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Nater Commitments		Show on DA plans	Show on CC/CDC plans & specs	Certifier check
he swimming pool must be outdoors.		~	~	



ate 19 April 2021					ENERGY
nt Number H	ouse Number 2	Street River Road	Suburt Emu Pl		ode State NSW
LOORS					
ound ab on ground	1st Floor Timber				
ALLS					
ound ck Veneer, Fibre ment Cladding	1st Floor Fibre Cement Cla	dding			
sulation External Walls		Internal Walls to I Garage internal wa		Insulation Internal R2.0	Walls
ternal Colours at yet selected					
EILINGS					
eilings with cavity to roo	f				
OOF AREA					
blours ot yet selected		Material Metal (Colourbond)	Insulation Anticon 50mm (R1.3	3)
INDOWS (Refer to 1	NatHERS Certificate f	or more detail)			
pplier		AWS Code	Operation	Glass	Uv SHGC
adnams		BRD-001-01A	Sliding Window	Single Clear	6.43 0.76
		BRD-112-01A BRD-033-01A	Awning Sliding/Stacker Door	Single Clear Single Clear	6.54 0.67 6.19 0.74
		BRD-024-01A	Double Hung	Single Clear	6.3 0.75
		BRD-063-01A	Fixed Window	Single Clear	6.02 0.78
ATED		BRD-006-01A	Bi-Fold Doors	Single Clear	6.08 0.61
ATER	D		Tarl Olar David	· · · · · · · · · ·	
ndscape Area	Rainwater Tank Garden, WC, Lau			f Area to Tank % of Roof	
owerheads			Toilets	Basin Taps	Kitchen Taps
tar > 7.5 but less < or =			4 Star	4 Star	4 Star
imming Pool		g Pool Inclusions er, Solar Only		Swimn 73KL	ning Pool Capacity
NERGY					
ot Water as Instantaneous 6 Star		Air Conditioning Single Phase		Air Conditioner EE Heating & Cooling 3	
ENTILATION					
undry Itural Ventilation (has exte	ernal window/door)	Bathroom Ducted		Kitchen Ducted	
THER					
lar Photovoltaic System	n Size (kw) 2.0kw		Cooking Gas Cooktop/Electic	Oven	
ving Room Ceiling Fans	Bedroom No	Ceiling Fans	Other Outdoor Clothes Line	e, Ventilated Fridge Space	, Air Conditioning Zoned
DDITIONAL NO	TES				
			SIX Protocol. Downlights fitte ace with Building BCA Part 3		

		NORTH	DATE	AMENDMENTS	NO	BY	ADDRESS 92 River Road, Emu Plains Lot 12	DRAWING TITLE BASIX COMMITMENTS		us RKING DRA	WINGS
	FYFFEDESIGN		17/12/2020	INITIAL SKETCH	01	AH	DP 1247788				
	FIFFEDLJIGN		18/01/2021	REVISED SKETCH	02	AW	DI 1247700		DRAWN BY	DATE	SCALE
			08/02/2021	REVISED SKETCH	03	AW	CLIENT	PROJECT	AH	4/06/2021	
сизтом номез	residential and building design		19/02/2021	DESIGN DEVELOPMENT	04	AW	Tracey and Jason LAPIN	New Build	DWG NO	JOB NUMBER	@ A2
	www.fyffedesign.com.au info@fyffedesign.com.au 02 9634 3600	Full Member	18/05/2021	PRELIMINARY WORKING DRAWINGS	05	SC					ISSUE
www.articohomes.com.au	5G/ 256 New Line Road Dural 2158	D A	18/05/2021	POOL AMMENDMENTS	06	SC			DA02	20126	06

	pr 2021 using BERS P	ro v4.4.0.3 (3.21)	00/4/ 5	$\mathbf{\Lambda}$
Property			The more end	re stars
Address	92 River Road , Emu	Plains NSW 2750	NATIO	
Lot/DP	12/1247788			
NCC Class*	14		ENERGY RAT	
Туре	New Dwelling			
Plans			Predicted annual e	MJ/m ²
Main Plan	LAPIN 20126		heating and cooling ba occupancy as	
Prepared by	ан 005		For more inf your dwelling www.nath	's rating see:
Construction	n and environm	hent DI AIN		ers.gov.au
Assessed floor are	a (m ²)*	Exposure Type	Thermal per	formance
Conditioned*	459.0	Open	Heating	Cooling
Unconditioned*	87.0	NatHERS climate zone	54.3	47.7
Total	546.0	28 RUAL	MJ/m ²	MJ/m ²
Garage	^{72.0} NSV			
AINS	72.0		About the rating	
Accredi	ited assessor		NatHERS software n	
Accredi	ited assessor	N , 2750 990 92 F 1 AINS	NatHERS software n thermal energy loads about the design and	using information construction, climat
Accredi Name Business name	ited assessor Ian Fry Frys Energywi		NatHERS software n thermal energy loads	using information construction, climat s of household use.
Accredi Name Business name Email	ited assessor lan Fry Frys Energywi comply@fryse	energywise.com.au	NatHERS software in thermal energy loads about the design and and common pattern The software does in appliances, apart fro	using information l construction, climat s of household use. ot take into account
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Accredit Name Business name Email Phone Accreditation No. Assessor Accrediti	ited assessor lan Fry Frys Energywi comply@fryse 02 9899 2825 DMN/12/1441 ing Organisation	AD, EM	NatHERS software in thermal energy loads about the design and and common pattern The software does in appliances, apart fro from ceiling fans. Verification To verify this certificate, scan the QR code or visit	using information I construction, climat s of household use. ot take into account m the airflow impact nerate? k, ensure you are
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Accredie Name Business name Email Phone Accreditation No. Assessor Accrediti Design Matters Nation Declaration of inter National Construct The NCC's requirements detailed in J0.2 and J5 to	ited assessor	energywise.com.au	NatHERS software in thermal energy loads about the design and and common pattern The software does in appliances, apart fro from ceiling fans. Verification To verify this certificate, scan the QR code or visit hstar.com.au/QR/Ge p=ExqNEYfiz. When using either lin visiting hstar.com.au	tusing information to construction, climat s of household use. ot take into account m the airflow impact interaction nerate? k, ensure you are