



# THERMAL COMFORT REPORT

LOT 2270 TEN GALA DRIVE

JORDAN SPRINGS **NSW 2747**

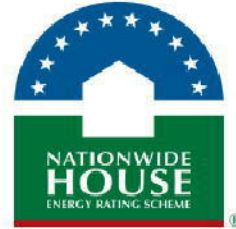
**This report is prepared by Tutis Consulting in accordance with the followings:**

- ★ NatHERS Technical Note 1 (Version 1.1 2013)
- ★ BASIX Thermal Comfort Protocol (01 May 2013)

Summary Report



FirstRate5® : 5.1.9c



Engine: 2.13

<b>Rating</b>	5.2 stars ★ ★ ★ ★ ★						
<b>Mode</b>	New Home						
<b>Energy*</b>	<table border="0"> <tr> <td>Total</td> <td>104.5 MJ/m2</td> </tr> <tr> <td>Heating</td> <td>68.8 MJ/m2</td> </tr> <tr> <td>Cooling</td> <td>35.7 MJ/m2</td> </tr> </table>	Total	104.5 MJ/m2	Heating	68.8 MJ/m2	Cooling	35.7 MJ/m2
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	<small>* Area correction applied as per NatHERS software protocol</small>						
<b>Areas</b>	<table border="0"> <tr> <td>Net Conditioned Floor Area (NCFA)</td> <td>102.6 m2</td> </tr> <tr> <td>Unconditioned Room Area</td> <td>9.5 m2</td> </tr> <tr> <td>Garage Area</td> <td>16.2 m2</td> </tr> </table>	Net Conditioned Floor Area (NCFA)	102.6 m2	Unconditioned Room Area	9.5 m2	Garage Area	16.2 m2
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Unconditioned Room Area	9.5 m2						
Garage Area	16.2 m2						
<b>Climate</b>	28 Richmond						
<b>Site Exposure</b>	suburban						
<b>Client Name</b>	Ultra Modern Developments						
<b>Rated Address</b>	Lot 2270 Tengala Drive JORDAN SPRINGS 2747						
<b>Accredited Rater</b>	Farid M.Rezaeian						
<b>Date</b>	7/7/2013						
<b>Reference</b>	9274						
<b>Comment</b>							

Drawings By: Eagle Homes Design: CUSTOM Sheets 1,2,3 of 3

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 stamped plans.  
 Changes to any of these could affect the rating.  
 FirstRate5® cannot model slab edge insulation.

Summary 07-07-2013 11:58:48 Ver:5.1.9c Engine Ver:2.13 Accredited Rater:Farid M.Rezaeian



Feature Report

FirstRate® Feature Report



Zones

Zone	Area (m <sup>2</sup> )	Conditioning Type	Conditioned
Bed 4	8.7	bedroom	Y
Laundry	4.0	otherDayCond	N
Bath	5.5	otherDayCond	N
Bed 3	8.7	bedroom	Y
Bed 2	9.1	bedroom	Y
Ensuite	4.2	otherNightCond	Y
WIR	3.0	otherNightCond	Y
Bed 1	13.5	bedroom	Y
Garage	16.2	garage	N
Kit/Meals	26.4	kitchen	Y
Hallway 1	4.5	otherDayCond	Y
Living	19.1	living	Y
Hallway 2	5.5	otherDayCond	Y

Walls

Type	Insulation	Num Foil Layers	Foil Type	Area (m <sup>2</sup> )
BV: Brick Veneer	1.5	0	None	111.5
BV: Brick Veneer	0.0	0	None	24.3

Floors

Type	Insulation	Ventilation	Area (m <sup>2</sup> )
CSOG: Slab on Ground	0.0	encl	128.3

Roofs/Ceilings

Type	Insulation	Area (m <sup>2</sup> )
Disc:Attic-Discontinuous	3.5	112.1
Disc:Attic-Discontinuous	0.0	16.2

Windows

Type	Insulation	Ventilation	Area (m <sup>2</sup> )

Type	U-Value	SHGC	Area (m <sup>2</sup> )
Generic 01: Aluminium standard single-glazed: clear glass: U = 7.32: SHGC = 0.77	7.32	0.77	23.64

### Window Directions

Direction	Area (m <sup>2</sup> )
NNW	8.6
WSW	4.3
ENE	5.0
SSE	5.6

### Air leakage

Item	Sealed	Unsealed
Chimneys	0	0
Exhaust Fans	1	0
Wall Vents		0
Down Lights		0
Unflued Gas Heaters		0



### Zone Energy Loads

Zone	Heating (MJ/m <sup>2</sup> )	Total Heating (MJ)	Cooling (MJ/m <sup>2</sup> )	Total Cooling (MJ)
Hallway 1	108.0	481.9	5.7	25.6
Kit/Meals	64.8	1710.0	64.5	1701.9
Ensuite	29.8	123.9	24.9	103.5
WIR	15.1	46.0	14.3	43.4
Bed 2	27.0	246.1	27.1	246.5
Hallway 2	358.3	1960.4	87.9	480.7
Bed 1	66.5	899.4	51.7	699.4
Bed 4	62.5	543.6	35.1	305.4
Living	113.0	2158.0	25.2	481.6
Bed 3	28.5	248.1	31.9	278.4



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