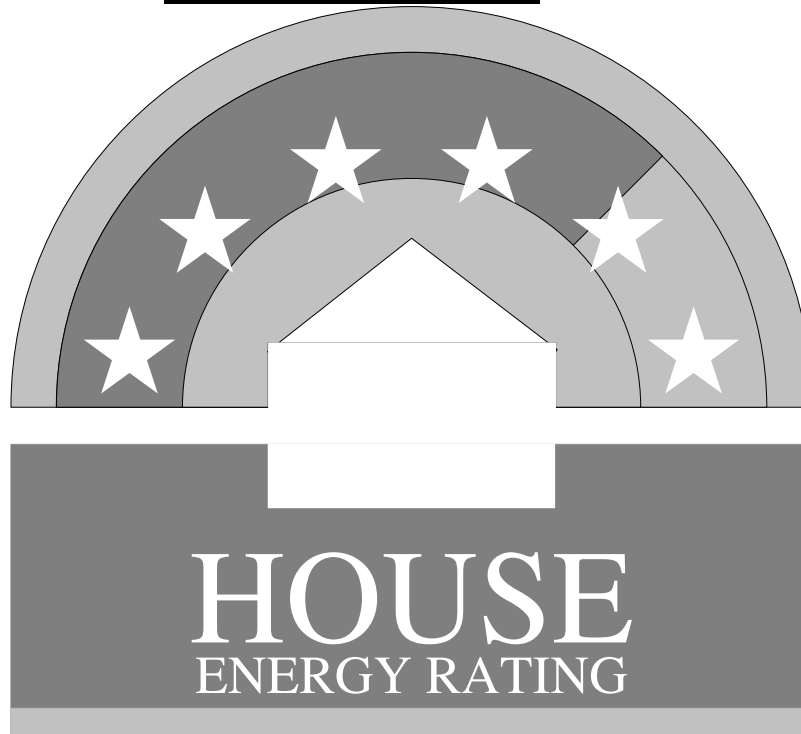


FirstRate Report



YOUR HOUSE ENERGY RATING IS: ★★☆☆☆ **4.5 STARS**
in Climate: 21 **SCORE: -2 POINTS**

Name: AusDesign Sample Report

Ref No:

House Title:

Date: 15-09-2004

Address: ***** Street

Toongabbie

3856

Reference: D:\PROGRAM FILES\FIRSTRATE 4

This rating only applies to the floor plan, construction details, orientation and climate as submitted and included in the attached Rating Summary. Changes to any of these could affect the rating.

Appliance Ratings

Heating: Unknown Heater / Unknown Rating

Cooling: Not Installed

HotWater: Unknown Hot Water System / Unknown Rating

NOTE: The appliance ratings above are based on information provided by the applicant and are included for information purposes only. They do not affect the House Energy Rating of the dwelling.

IMPROVING YOUR RATING

The table below shows the current rating of your house and its potential for improvement.

	POOR			AVERAGE				GOOD			V. GOOD	
Star Rating	0 Star	★	★★	★★★	★★★★	★★★★★	★★★★★★	★★★★★★★	★★★★★★★	★★★★★★★	★★★★★★★	
Point Score	-101	-100	-63	-62	-29	-28	-11	-10	6	7	18	19
Current	-2											
Potential	17											

Incorporating these design options will add the additional points required to achieve the potential rating shown in the table. Each point represents about a 1% change in energy efficiency. This list is only a guide to the range of options that could be used.

Design options

Additional points

Change added wall insulation	R 2	3
Change External Floor Type	Concrete Slab on ground	15
Add northerly blinds	100 %	1

ORIENTATION

Orientation is one of the key factors which influences energy efficiency. This dwelling will achieve different scores and star ratings for different orientations.

Current Rating	-1	★★★★☆
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Largest windows in the dwelling;

Direction : North

Area : 11 m²

The table below shows the total score for the dwelling when these windows face the direction indicated.

Note that obstructions overshadowing windows have been removed from all windows in these ratings to allow better comparisons to be made between orientations.

ORIENTATION	POINT SCORE	STAR RATING
1. North	-2	★★★★☆
2. North East	-3	★★★★
3. East	-5	★★★★
4. South East	-7	★★★★
5. South	-4	★★★★
6. South West	-5	★★★★
7. West	-5	★★★★
8. North West	-5	★★★★

FirstRate Mode
Climate: 21
Regulation Mode

RATING SUMMARY for: *** Street, Toongabbie**

Assessor's Name: Peter Clarkson - AusDesign

Net Conditioned Floor Area: 244.4 m²

				Points		
Feature				Winter	Summer	Total
CEILING				4	0	4
Surface Area:	0	Insulation:	4			
WALL				0	-3	-3
Surface Area:	-2	Insulation:	4	Mass:	-5	
FLOOR				7	-5	2
Surface Area:	0	Insulation:	5	Mass:	-2	
AIR LEAKAGE (Percentage of score shown for each element)				9	0	9
Fire Place	0 %	Vented Skylights	0 %			
Fixed Vents	0 %	Windows	48 %			
Exhaust Fans	30 %	Doors	3 %			
Down Lights	0 %	Gaps (around frames)	19 %			
DESIGN FEATURES				0	0	0
Cross Ventilation	0					
ROOF GLAZING				0	0	0
Winter Gain	0	Winter Loss	0			
WINDOWS				-4	-6	-10
Window Direction	Area		Point Scores			
	m2	%NCFA	Winter* Loss	Winter Gain	Summer Gain	Total
N	11	5%	-9	10	-3	0
E	2	1%	-1	2	-1	0
S	10	4%	-6	2	-2	0
W	4	2%	-3	1	-1	0
Total	27	11%	-19	15	-6	-10

* Air movement over glazing can significantly increase winter heat losses. SEAV recommends heating/cooling duct outlets be positioned to avoid air movement across glass or use deflectors to direct air away from glass.

The contribution of heavyweight materials to the window score is 0 points

				Winter	Summer	Total
RATING	★★★★☆			16	-14	-1*

* includes -3 points from Area Adjustment

Detailed House Data

House Details

ClientName AusDesign Sample Report
 StreetAddress ***** Street
 Suburb Toongabbie
 Postcode 3856
 MailSuburb Traralgon
 MailPostCode 3844
 AssessorName Peter Clarkson - AusDesign
 FileCreated 15-09-2004

Climate Details

State
 Town
 Postcode 0
 Zone 21

Floor Details

ID	Construction	Sub Floor	Upper	Shared	Foil	Carpet	Ins RValue	Area
1	Timber	Open	No	No	No	Vinyl	R1.5	21.8m ²
2	Timber	Open	No	No	No	Carp	R1.5	124.7m ²
3	Timber	Open	No	No	No	No	R1.5	106.6m ²

Wall Details

ID	Construction	Shared	Ins RValue	Length	Height
1	Weatherboard	No	R1.5	73.0m	2.7m

Ceiling Details

ID	Construction	Shared	Foil	Ins RValue	Area
2	Attic - Low Ventilation	No	Yes	R3.5	253.1m ²

Window Details

ID	Dir	Height	Width	Utility	Glass	Frame	Curtain	Blind	Fixed & Adj Eave	Fixed Eave	Head to Eave
1	N	1.3m	0.9m	No	SG	TIMB	HB(Reg)	No	0.6m	0.6m	0.0m
2	N	1.0m	2.4m	No	SG	TIMB	HB(Reg)	No	0.6m	0.6m	0.0m
3	N	2.1m	1.8m	No	SG	ALSTD	HB(Reg)	No	0.6m	0.6m	0.0m
4	N	1.3m	1.5m	No	SG	TIMB	HB(Reg)	No	0.6m	0.6m	0.0m
5	N	1.3m	0.9m	No	SG	TIMB	HB(Reg)	No	0.6m	0.6m	0.0m
6	N	1.0m	0.9m	No	SG	TIMB	HB(Reg)	No	0.6m	0.6m	0.0m
7	E	1.3m	1.5m	No	SG	TIMB	HB(Reg)	No	0.0m	0.0m	0.0m
8	S	1.3m	1.5m	No	SG	TIMB	HB(Reg)	No	0.0m	0.0m	0.0m
9	S	1.3m	1.5m	No	SG	TIMB	HB(Reg)	No	0.0m	0.0m	0.0m
10	S	1.3m	1.5m	No	SG	TIMB	HB(Reg)	No	0.2m	0.2m	1.5m
11	S	1.3m	1.5m	No	SG	TIMB	HB(Reg)	No	1.8m	1.8m	-0.2m
12	S	1.3m	1.5m	No	SG	TIMB	HB(Reg)	No	1.8m	1.8m	-0.2m
13	W	1.3m	1.5m	No	SG	TIMB	HB(Reg)	No	1.8m	1.8m	-0.2m
14	W	1.3m	1.5m	No	SG	TIMB	HB(Reg)	No	1.8m	1.8m	-0.2m

Window Shading Details

ID	Dir	Height	Width	Obst Height	Obst Dist	Obst Width	Obst Offset	LShape Left Fin	LShape Left Off	LShape Right Fin	LShape Right Off
8	S	1.3m	1.5m	0.0m	0.0m	0.0m	0.0m	0.0m	0.0m	2.0m	5.3m
9	S	1.3m	1.5m	0.0m	0.0m	0.0m	0.0m	0.0m	0.0m	2.0m	0.8m
11	S	1.3m	1.5m	0.0m	0.0m	0.0m	0.0m	2.0m	0.8m	0.0m	0.0m

12 S 1.3m 1.5m 0.0m 0.0m 0.0m 0.0m 2.0m 4.3m 0.0m 0.0m

Zoning Details

Is there Cross Flow Ventilation ? Average

Air Leakage Details

Location Rural
Is there More than One Storey ? No
Is the Entry open to the Living Area ? No
Area of Heavyweight Mass 0m²
Area of Lightweight Mass 0m²

	<u>Sealed</u>	<u>UnSealed</u>
Chimneys	0	0
Vents	0	0
Fans	1	1
Downlights	0	0
Skylights	0	0
Utility Doors	1	0
External Doors	2	0

Unflued Gas Heaters 0
Percentage of Windows Sealed 100%
Windows - Average Gap Small
External Doors - Average Gap Small
Gaps & Cracks Sealed Yes

Compliance Report

The following table lists those features of house design and construction which have been identified by the software as critical to the achievement of the rating. If there has been any change to these features proposed or during construction the house should be re-rated to ensure that the required star rating has been maintained.

This page must be checked and signed by the builder and owner and presented to the Building Surveyor as evidence that the house has been constructed in accordance with the star rating prior to the issuing of an Occupancy Permit. If the house has not been constructed to the standards listed in this table, further ratings must be provided to show that the required rating has been achieved.

Item	Details	Variation	Comments			
Floors						
Main Ext. floor construction	Timber	YES NO				
External Floor Area	254.0 m2	YES NO				
Shared Floor Area	0.0 %	YES NO				
% Ext floors carpeted	49%	YES NO				
Avg. floor insulation	R1.5	YES NO				
Walls						
Main Ext. wall construction	Weatherboard	YES NO				
External Wall Area	197.0 m2	YES NO				
Shared Wall Area	0.0 %	YES NO				
Avg. wall insulation	R1.5	YES NO				
Ceilings						
Main Ext. Ceiling construction	Attic - Low Ventilation	YES NO				
External Ceiling Area	253.0 m2	YES NO				
Shared Ceiling Area	0.0 %	YES NO				
Avg. Ceiling insulation	R3.5	YES NO				
Air Leakage						
Location	Rural	YES NO				
Is there More than One Storey ?	No	YES NO				
Is the Entry open to the Living Area ?	No	YES NO				
Area of Heavyweight Mass	0m ²	YES NO				
Area of Lightweight Mass	0m ²	YES NO				
Unflued Gas Heaters	0	YES NO				
Percentage of Windows Sealed	100%	YES NO				
Windows - Average Gap	Small	YES NO				
External Doors - Average Gap	Small	YES NO				
Gaps & Cracks Sealed	Yes	YES NO				
Items	Sealed Unsealed	YES NO				
Chimneys	0 0	YES NO				
Vents	0 0	YES NO				
Fans	1 1	YES NO				
Downlights	0 0	YES NO				
Skylights	0 0	YES NO				
Utility Doors	1 0	YES NO				
External Doors	2 0	YES NO				
Windows						
All Windows Direction	Area (m ²)	Eaves	Blinds	Obst	Variation?	Comments
N	11.4	Yes	No	No		
E	2.0	No	No	No		
S	9.8	Yes	No	No		
W	3.9	Yes	No	No		
No Overshadowing of Nthn Windows						
Main glazing used	Clear-Timber		YES NO			
Type:	23.2 m2					
Area:	4.23					
Window U-value:	0.99					
Shading Coeff:	0.80					
Vision Area:						

Other Glazing used			
Type:	Clear-Aluminium Standard	YES	NO
Area:	3.8 m2		
Window U-value:	5.90		
Shading Coeff:	0.99		
Vision Area:	0.83		

Owner _____

Builder _____

Date ___/___/___

These details apply to the dwelling at the following address

***** Street
 Toongabbie
 3856