



BASIX GUIDE : Certifying Thermal Comfort



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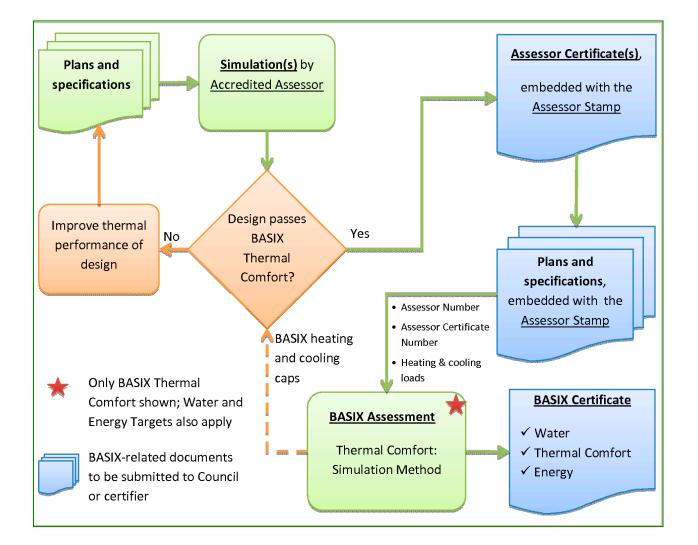
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Introduction

This Guide describes how councils and certifiers can check that the information submitted in the Thermal Comfort section of BASIX using the Simulation Method is valid. Accredited Assessors may also find it useful to understand what documents must be prepared when using Simulation.

The diagram below shows the process of completing the Thermal Comfort section of BASIX using the Simulation Method, beginning with the original plans. Simulation means the modelling of a new dwelling using Approved Software for the purposes of demonstrating compliance with the BASIX Thermal Comfort Index.



There are four elements that must be checked by the consent authority at approval stage, and by the certifying authority during construction, to ensure the validity of the assessment:

- 1. the development details;
- 2. the Accredited Assessor details;
- 3. the Assessor Certificate details; and
- 4. the heating and cooling loads.

This document describes how and why to check these elements. If these elements are inconsistent or invalid, then the application should be returned to the proponent to resolve.

1. Checking the Development Details

BASIX Certificate: means a certificate issued by the Director-General of the Department of Planning & Infrastructure in relation to the sustainability of a proposed development. See clause 164A of the Environmental Planning and Assessment Regulation 2000.

Sample BASIX Certificates are shown in Section 4: Checking the Heating and Cooling Loads.



Check that the address or lot details shown on the plans, the Assessor Certificate and the BASIX Certificate all match the details in the development application, or the application for a complying development certificate, construction certificate or occupation certificate.

2. Checking the Accredited Assessor Details

Accredited Assessor: means a person accredited by an Accrediting Organisation to conduct Simulations for the Thermal Comfort Index of BASIX.

Accrediting Organisation: means an organisation approved by the Department of Planning & Infrastructure to accredit assessors for the purposes of conducting Simulations.

Currently, the Association of Building Sustainability Assessors (ABSA) and the Building Designers Association of Victoria (BDAV) are Accrediting Organisations.

Assessor Number: means the unique number assigned to that Accredited Assessor by the relevant Accrediting Organisation (ABSA or BDAV).

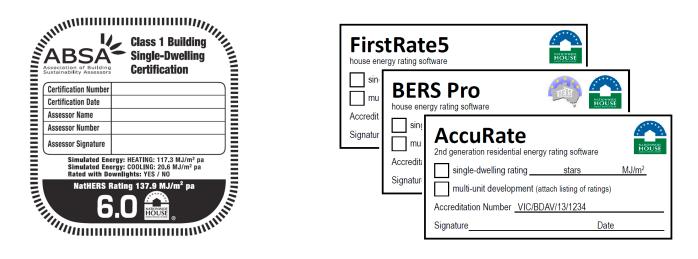
Assessor Stamp: means the unique stamp, issued by the Accrediting Organisation, that is used by the Accredited Assessor to endorse the Simulation inputs and outputs for the building project.

It is a requirement that the Simulation for BASIX Thermal Comfort is conducted by an Accredited Assessor. Every Accredited Assessor is issued with an Assessor Number, assist with their identification. As an Accredited Assessor, they must:

- have completed relevant training and examination, and stay up-to-date with Continuing Professional Development;
- conduct Simulation using Approved Software in a manner consistent with accepted standard procedures; and
- act in a professional manner consistent with the requirements of their accrediting organisation, including quality assurance and holding relevant insurance.

The Accredited Assessor will attach an Assessor Stamp to certain documents at the completion of the Simulation process. The stamp will either be digitally embedded or permanently affixed to every page of:

- information relied on to conduct the Simulation, including site plans, floor plans, elevations, sections, details, schedules and specifications; and
- the Assessor Certificate, as described in Section 3: Checking the Assessor Certificate Details.



Samples of Assessor Stamps for ABSA assessors (left) and BDAV assessors (right). The Assessor Certificate Number or downlight indicator may be written immediately adjacent to the Assessor Stamp, but only if there is no space for these details on the stamp.

The Assessor Stamp is referred to as the "Digital Stamp" in the ABSA Rating Certification System User Guide. The Assessor Stamp includes, at a minimum:

- the Assessor Number (also referred to as the "Accreditation Number");
- the Assessor Certificate Number (also referred to as the "Certification Number")
- the date of endorsement;
- the signature of the Accredited Assessor;
- indication of whether the dwelling was rated with or without downlights; and
- the heating and cooling loads for the dwelling or multi-dwelling project, as described in the Checking the Heating and Cooling Loads section.



Check that all of the Assessor Stamps are complete, signed and consistent. Check that the Assessor Number shown on the BASIX Certificate matches the details on the Assessor Certificate and the Assessor Stamps. Also check that if downlights are present then this is also indicated in the Assessor Stamp.

Sample BASIX certificates are shown in Section 4: checking the heating and cooling loads.

3. Checking the assessor certificate details

Assessor Certificate: means the set of documents consisting of, for each dwelling in that building project, the NatHERS Certificate (1 page) and the Building Thermal Performance feature report (3 5 pages) generated by the Approved Software, with every page showing the Assessor Stamp.

The NatHERS Certificate (1 page) may also referred to as the "Summary Report" or "Rating Tool Report".

The Building Thermal Performance feature report refers to the "Construction Details" sections (typically 3 5 pages) in the AccuRate "Building Data Report", the "Summary" section (typically 1 page) in the BERSPro "Building Element Details Report", or the "Feature Report" (typically 2 pages) in FirstRate5.

Assessor Certificate Number: means the number issued by the Accrediting Organisation for the Simulations conducted by an Accredited Assessor on the building's thermal performance.

The Assessor Certificate Number may also be referred to as the "Certification Number".

The Assessor Certificate shows:

- the location of the project;
- the version of Approved Software used;
- the Accredited Assessor who generated the certificate;
- the conditioned floor area and unconditioned floor area of the dwelling; and
- the adjusted heating and cooling loads (total load may also be included).

Each page of the Assessor Certificate must be stamped with the Assessor Stamp.



Check that all of the Assessor Stamps are complete, signed and consistent. Check that the Assessor Certificate Number shown on the BASIX Certificate matches the details on the Assessor Stamps.

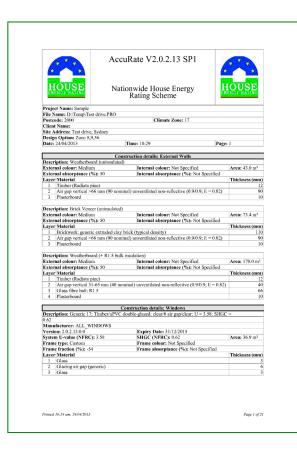
Sample BASIX Certificates are shown in Section 4: Checking the Heating and Cooling Loads.

It is possible to further verify the validity of an Assessor Certificate by contacting the Accrediting Organisation of the Assessor who carried out the assessment.

For ABSA assessors:www.absa.net.auFor BDAV assessors:www.bdav.org.au

Below is a sample NatHERS Certificate generated from AccuRate. Note that it is not valid for BASIX without the Assessor stamp.

HOUSE ENERGY RATING	Natio	nwide House I		
		nwide House I Rating Schem	Energy e	HOUSE
		Project Details		
File Name: D:\Temp\] Postcode: 2000 Design Option: Zone Description: As drawn	8,9,56	Climate Z	Zone: 17	
		Client Details		
Client Name:		Circuit Details		
Phone: Postal Address: Site Address: Test driv Exposure: Suburban Council submitted to	· · ·		nail:	
		Aggagggy Dataila		
Assessor Name:BASE	X	Assessor Details	Assessor N	0.
Phone: Assessment Date:24/0 Project Code: Assessor Signature:	Fax: 4/2013	En	n ail: basix@planning.ns Time: 10:29	
g				
Heating	Cooling (sensible)	TED ENERGY REQU Cooling (latent)	Total Energy	Units
24.9	14.7	6.8	46.4	MJ/m ² .annum
* These energy requirements hav of the intended occupants. They s running costs. The settings used f	should be used solely for the pu	rposes of rating the building. The	nd so do not necessarily represen ey should not be used to infer act	t the usage pattern or lifestyle ual energy consumption or
		STED ENERGY REC		¥7.44
Head	Cooling (sensible)	Cooling (latent)	Total Energy 48.6	Units MJ/m ² .annum
Heating 26.1	15.4	71	10.0	
26.1	15.4 ioned floor area	7.1 223.6 r		
26.1		-		
26.1		-		
26.1	ioned floor area	223.6 r Star Rating		·
26.1	ioned floor area	223.6 r Star Rating	5.1 STARS	·
26.1	ioned floor area	223.6 r Star Rating	5.1 STARS	·



roject Name: Sample roject Name: Sample roject Vame: Sample Sottode: 2000 Siten Name: Site Address: Test drive, beign Option: Zone 8/9 bate: 24/04/2013 Description: Timber (sol Xternal colour: Medium Kternal absorptance (? .ayer [Material 1 Timber (Mountain	t drive.PRO Sydney 56 [1 Constr id) n	nwide House Ene Rating Scheme Climate Zone: Fime: 10:29 ruction details: Esternal Do	17 Pag	HOUSE NERGY RATING
File Name: D:/Temp/Tes Tostcode: 2000 Dient Name: Site Address: Test drive, Pesign Option: Zone 8/9, Date: 24/04/2013 Description: Timber (sol Xxternal obour: Mcdiur External absorptane (f ayer [Material	Sydney ,56 (7 Constr id) n	fime: 10:29 ruction details: External Do	Pag	e: 2
Postcode: 2000 Lient Name: Sile Address: Test drive, besign Option: Zone 8,9 Date: 24/04/2013 Description: Timber (sol External colour: Mediur Xsternal absorptance (? ayer[Material	Sydney ,56 (7 Constr id) n	fime: 10:29 ruction details: External Do	Pag	e: 2
ile Address: Test drive, Design Option: Zone 8.9 Date: 24/04/2013 Description: Timber (sol External colour: Mcdiur External absorptance (% .ayer Material	1,56 Constr id)	ruction details: External Do		e: 2
Design Option: Zone 8.9 Date: 24/04/2013 Description: Timber (sol External colour: Medium External absorptance (% .ayer[Material	1,56 Constr id)	ruction details: External Do		e: 2
Date: 24/04/2013 Description: Timber (sol External colour: Mediur External absorptance (% .ayer [Material	Constr id) m	ruction details: External Do		e: 2
Description: Timber (sol External colour: Mediur External absorptance (? Layer Material	Constr id)	ruction details: External Do		
External colour: Medium External absorptance (% .ayer Material	id) n		ors	
External colour: Medium External absorptance (% .ayer Material	n			
ayer Material	(a): 50	Internal colour: Mediu	n	Area: 3.4 m ²
		Internal absorptance ((6): 50	
1 Timber (Mountain				Thickness (mm)
	ash)			50
Description: Steel door				
External colour: Mediur	n	Internal colour: Not Sp	ecified	Area: 11.3 m ²
External absorptance (%	(6): 50	Internal absorptance (%): Not Specified	
ayer Material				Thickness (mm)
1 Steel				1
	Const	ruction details: Floor/Ceilin	σs	
Description: Plasterboard	d 13 mm			
Top colour: Not Specifie		Bottom colour: Not Spe		Area: 47.7 m ²
op absorptance (%): N aver Material	lot Specified	Bottom absorptance (%	i): Not Specified	Thickness (mm)
1 Plasterboard				13
				13
Description: Timber (har				
Top colour: Not Specific	:d	Bottom colour: Not Spe		Area: 118.7 m ²
Fop colour: Not Specific Fop absorptance (%): N	:d			Area: 118.7 m ²
Fop colour: Not Specific Fop absorptance (%): N ayer Material	d lot Specified	Bottom colour: Not Spe		
Fop colour: Not Specific Fop absorptance (%): N	d fot Specified nderlay 10	Bottom colour: Not Spe		Area: 118.7 m ² Thickness (mm)
Fop colour: Not Specific Fop absorptance (%): N ayer Material 1 Carpet 10 + felt un	d lot Specified nderlay 10 ash)	Bottom colour: Not Spe		Area: 118.7 m ² Thickness (mm) 20
Top colour: Not Specific Fop absorptance (%): N .ayer Material 1 Carpet 10 + felt un 2 Timber (Mountain 3 Polystyrene expan	d lot Specified aderlay 10 ash) ded: R1.0	Bottom colour: Not Spc Bottom absorptance (%		Area: 118.7 m ² Thickness (mm) 20 19
Fop colour: Not Specific Fop absorptance (%): N ayer Material 1 Carpet 10 + felt un 2 Timber (Mountain 3 Polystyrene expan Description: Timber (har	d lot Specified aderlay 10 ash) ded: R1.0 rdwood): ceramic	Bottom colour: Not Spc Bottom absorptance (%	b): Not Specified	Area: 118.7 m ² Thickness (mm) 20 19 39
Fop colour: Not Specific Fop absorptance (%): N. ayer Material Carpet 10 + felt ur 2 Timber (Mountain 3 Polystyrene expan Description: Timber (har Fop colour: Not Specific Fop absorptance (%): N	d lot Specified aderlay 10 ash) ded: R1.0 rdwood): ceramic rd	Bottom colour: Not Spc Bottom absorptance (%	b): Not Specified	Area: 118.7 m ² Thickness (mm) 20 19 39 Area: 127.6 m ²
Fop colour: Not Specific fop absorptance (%): N ayer/Material 1 Carpet 10 + felt ur 2 Timber (Mountain 3 Polystyrene expan Description: Timber (har Fop colour: Not Specific fop absorptance (%): N ayer/Material	d lot Specified aderlay 10 ash) ded: R1.0 rdwood): ceramic rd	Bottom colour: Not Spc Bottom absorptance (* tiles/bare Bottom colour: Not Spc	b): Not Specified	Area: 118.7 m ² Thickness (mm) 20 19 39 Area: 127.6 m ² Thickness (mm)
Fop colour: Not Specific Top absorptance (%): N aver (Material Carpet 10 + felt ur Carpet 10 + felt ur Timber (Mountain Polystyrene expan Description: Timber (har Pop colour: Not Specific Fop absorptance (%): N aver [Material I Ceramic tile	rd lot Specified aderlay 10 ash) ded: R1.0 rdwood): ceramic rd lot Specified	Bottom colour: Not Spc Bottom absorptance (* tiles/bare Bottom colour: Not Spc	b): Not Specified	Area: 118.7 m ³ Thickness (mm) 20 19 39 Area: 127.6 m ² Thickness (mm) 8
Fop colour: Not Specific fop absorptance (%): N ayer/Material 1 Carpet 10 + felt ur 2 Timber (Mountain 3 Polystyrene expan Description: Timber (har Fop colour: Not Specific fop absorptance (%): N ayer/Material	nd lot Specified aderlay 10 ash) ded: R1.0 rdwood): ceramic ad lot Specified ash)	Bottom colour: Not Spc Bottom absorptance (* tiles/bare Bottom colour: Not Spc	b): Not Specified	Area: 118.7 m ² Thickness (mm) 20 19 39 Area: 127.6 m ² Thickness (mm)

Project Name: Sample File Name: D:\Temp\Te: Postcode: 2000		Rating Scheme	ergy	IOUSE
File Name: D:\Temp\Tes Postcode: 2000				
	st drive.PRO			
		Climate Zone	: 17	
Client Name:	0.1			
Site Address: Test drive Design Option: Zone 8,9				
Design Option: Zone 8,9 Date: 24/04/2013		Fime: 10:29	Pag	
Date: 24/04/2013		1 ime: 10:29	Pag	8.3
Description: Concrete S	lah 100 mm; hare/	bare		
Top colour: Medium	nuo 100 mm. on a	Bottom colour: Media	ım	Area: 47.7 m2
Top absorptance (%): 5	50	Bottom absorptance (
Layer Material				Thickness (mm
1 Concrete: standard	rd (2400 kg/m3)			10
Description: Bare groun	ıd			
Top colour: Medium		Bottom colour: Media		Area: 250.6 m ²
Top absorptance (%): 5	50	Bottom absorptance ((%): 50	
Layer Material 1 Ground				Thickness (mn
Description: Plasterboar Top colour: Not Specific Top absorptance (%): 1	ied	ulk insulation Bottom colour: Not S Bottom absorptance (Area: 246.3 m
	ied Not Specified	Bottom colour: Not S		Area: 246.3 m ² Thickness (mn 15
Top colour: Not Specific Top absorptance (%): Mayer Material 1 Glass fibre batt: R	ied Not Specified R3.5	Bottom colour: Not S Bottom absorptance ((%): Not Specified	Thickness (mn
Top colour: Not Specifi Top absorptance (%): N Layer Material 1 Glass fibre batt: R 2 Plasterboard	ied Not Specified R3.5 Const	Bottom colour: Not S	(%): Not Specified	Area: 246.3 m ² Thickness (mn 15
Top colour: Not Specific Top absorptance (%): N Laver Material 1 Glass fibre batt: R 2 Plasterboard Description: Plasterboar	ied Not Specified R3.5 Const rd on studs	Bottom colour: Not S Bottom absorptance (ruction details: Internal V	(%): Not Specified	Area: 246.3 m ² Thickness (mn 15 1 1
Top colour: Not Specific Top absorptance (%): ? Layer Material 1 Glass fibre batt: R 2 Plasterboard Description: Plasterboar First colour: Not Specifi	ied Not Specified R3.5 Const rd on studs fied	Bottom colour: Not S Bottom absorptance (ruction details: Internal V Last colour: Not Spec	(%): Not Specified Valls	Area: 246.3 m ² Thickness (mn 15 1 1
Top colour: Not Specifit Top absorptance (%): 1 Laver Material 1 Glass fibre batt: R 2 Plasterboard Description: Plasterboar First colour: Not Specific First absorptance (%):	ied Not Specified R3.5 Const rd on studs fied	Bottom colour: Not S Bottom absorptance (ruction details: Internal V	(%): Not Specified Valls	Thickness (mm 15 1 Area: 283.8 m
Top colour: Not Specific Top absorptance (%): Y Layer Material 1 Glass fibre batt: R 2 Plasterboard Description: Plasterboar First colour: Not Specif First absorptance (%): Layer Material	ied Not Specified R3.5 Const rd on studs fied	Bottom colour: Not S Bottom absorptance (ruction details: Internal V Last colour: Not Spec	(%): Not Specified Valls	Area: 246.3 m ² Thickness (mn 15 1 Area: 283.8 m ² Thickness (mn
Top colour: Not Specific Top absorptance (%): Y Layer Material 1 Glass fibre batt: R 2 Plasterboard Description: Plasterboar First colour: Not Specific First absorptance (%): Layer Material 1 Plasterboard	ied Not Specified R3.5 Const rd on studs fied Not Specified	Bottom colour: Not S Bottom absorptance (ruction details: Internal V Last colour: Not Spec Last absorptance (%)	%): Not Specified Valls ified :: Not Specified	Thickness (mm 15 1 Area: 283.8 m ² Thickness (mm
Top colour: Not Specific Top absorptance (%): Y Layer Material 1 Glass fibre batt: R 2 Plasterboard Description: Plasterboar First colour: Not Specific First absorptance (%): Layer Material 1 Plasterboard	ied Not Specified R3.5 Const rd on studs fied Not Specified	Bottom colour: Not S Bottom absorptance (ruction details: Internal V Last colour: Not Spec	%): Not Specified Valls ified :: Not Specified	Thickness (mm 15 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Top colour: Not Specific Top absorptance (%): 1 Laver Material 1 Glass fibre batt. R 2 Plasterboard Description: Plasterboard First colour: Not Specific First absorptance (%): Laver Material 1 Plasterboard 2 Air gay vertical >>	ied Not Specified R3.5 Const rd on studs fied Not Specified	Bottom colour: Not S Bottom absorptance (ruction details: Internal V Last colour: Not Spec Last absorptance (%)	%): Not Specified Valls ified :: Not Specified	Area: 246.3 m ² Thickness (mm 15 Area: 283.8 m ² Thickness (mm 1 9 9
Top colour: Not Specific Top absorptance (%): N Laver Material 2 Class fibre batt; R 2 Plasterboard Description: Plasterboard First absorptance (%): Laver Material 2 Air gap vertical >> 3 Plasterboard	ied Not Specified 23.5 Const 23.5 rd on studs fied Not Specified 466 mm (90 nomini	Bottom colour: Not S Bottom absorptance (ruction details: Internal V Last colour: Not Spec Last absorptance (%)	%): Not Specified Valls iffed): Not Specified ve (0.9/0.9; E = 0.82)	Area: 246.3 m² Thickness (mm) 15 1 Area: 283.8 m² Thickness (mn) 1 9 1 9 1
Top colour: Not Specifi Top absorptance (%): 1 Layer Material 1 Glass fibre batt: R 2 Plasterboard Exerciption: Plasterboard First colour: Not Specif First absorptance (%): Layer Material 2 Air gap vertical > 3 Plasterboard 2 Air gap vertical > 3 Plasterboard Description: Metal deck	ied Not Specified 23.5 Const 23.5 rd on studs fied Not Specified 466 mm (90 nomini	Bottom colour: Not S Bottom absorptance (Last colour: Not Spec- Last absorptance (% a) unventilated non-reflectiv construction details: Roofs	(%): Not Specified Valls ified): Not Specified ve (0.9/0.9; E = 0.82)	Area: 246.3 m² Thickness (mn 15 1 Area: 283.8 m² Thickness (mn 1 9 1
Top colour: Not Specifin Top absorptance (%): 1 Layer Material 1 Glass fibre batt. R 2 Plasterboard Description: Plasterboard First colour: Not Specifi First absorptance (%): Layer Material 1 Plasterboard 3 Plasterboard Description: Metal deck External colour: Dark	ied Not Specified R3.5 Const rd on studs fied Not Specified -66 mm (90 nomini c	Bottom colour: Not S Bottom absorptance (ruction details: Internal V Last colour: Not Spec Last absorptance (% a) unventilated non-reflectiv construction details: Roofs Internal colour: Not S	%i: Not Specified Valls ifled irled ve (0.9/0.9; E = 0.82) Specified	Area: 246.3 m² Thickness (mn 15 1 Area: 283.8 m² Thickness (mn 1 9 1
Top colour: Not Specific Top absorptance Specific Laser Material 1 Glass fibre batt: R 2 Plasterboard Perciption: Plastchoard Pirst aborptance (?) 1 Auger Material 1 Plasterboard 2 Air gap vertical > 2 Air gap vertical > 3 Plasterboard Description: Metal deck External colour: Data	ied Not Specified R3.5 Const rd on studs fied Not Specified -66 mm (90 nomini c	Bottom colour: Not S Bottom absorptance (Last colour: Not Spec- Last absorptance (% a) unventilated non-reflectiv construction details: Roofs	%i: Not Specified Valls ifled irled ve (0.9/0.9; E = 0.82) Specified	Area: 246.3 m² Thickness (mm) 15 1 Area: 283.8 m² Thickness (mm) 9 1 9 1 9 1 9 1 9 1 9 1 9 1
Top colour: Not Specifin Top absorptance (%): 1 Layer Material 1 Glass fibre batt. R 2 Plasterboard Description: Plasterboard First colour: Not Specifi First absorptance (%): Layer Material 1 Plasterboard 3 Plasterboard Description: Metal deck External colour: Dark	ied Not Specified R3.5 Const rd on studs fied Not Specified -66 mm (90 nomini c	Bottom colour: Not S Bottom absorptance (ruction details: Internal V Last colour: Not Spec Last absorptance (% a) unventilated non-reflectiv construction details: Roofs Internal colour: Not S	%i: Not Specified Valls ifled irled ve (0.9/0.9; E = 0.82) Specified	Thickness (mm 15 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Above and left is a sample Building Thermal Performance feature report (3 pages) generated from AccuRate. Note that it is not valid for BASIX without the Assessor Stamp on every page.

4. Checking the heating and cooling loads

Simulation is used by the Accredited Assessor to calculate the heating and cooling loads for each dwelling in the project.

For Single dwellings



For single dwelling projects, check that the heating and cooling loads shown in the BASIX Certificate are the same as on the Assessor Stamps and the Assessor Certificate.

The following BASIX Certificate extract shows the position on page 2 of the Assessor Number, the Assessor Certificate Number, and the heating and cooling loads for a single dwelling project.

Project name Street address Local Government Area	Test house single 1 Test Drive Test 2640	Assessor number Certificate number	12345	
	1 Test Drive Test 2640	Cortificate number		
Local Government Area			1234567890	
	Albury City Council	Climate zone	20	
Plan type and plan number	Deposited Plan 99	Area adjusted cooling load (MJ/m².year)	25	
Lot no.	11	Area adjusted heating load (MJ/m².year)	100	
Section no.	•	Other		
Project type		none	n/a	
Project type	separate dwelling house	Project score		
No. of bedrooms	3	Water	12	Target 40
Site details			-	
Site area (m²)	867	Thermal Comfort	🗸 Pass	Target Pass
Roof area (m²)	269	Energy	1 30	Target 25
Conditioned floor area (m2)	240		•	
Unconditioned floor area (m2)	15			
Total area of garden and lawn (m2)	284			

For Multi dwellings

Although not required, an Accredited Assessor may provide a schedule that summarises the individual heating and cooling loads for each dwelling in a multi-dwelling project.



For multi dwelling projects, check that the heating and cooling loads shown for each individual dwelling in the Thermal Comfort section of the BASIX Certificate are the same as in the relevant NatHERS Certificate or as listed in the load summary schedule.

The BASIX Thermal Comfort Protocol allows Assessors to use the results of one Simulation for multiple similar unit dwellings in a multi-dwelling unit building where the variation in certain attributes is not more than 2.5%; see the BASIX thermal comfort protocol for further details.

The following BASIX Certificate extracts show the position on page 2 of the Assessor Number and the Assessor Certificate Number, and the position on a later page of the heating and cooling loads for each dwelling in a multi-dwelling project.

Project address		Common area landscape		
Project name	Test project multi houses	Common area lawn (m²)	10	
Street address	1 5 Drive Test 2220	Common area garden (m²)	10	
Local Government Area	please select	Area of indigenous or low water use species (m ²)	-	
Plan type and plan number	deposited 99	Assessor details		
Lot no.	11		10/0000	
Section no.	-	Assessor number	12/0000	
Project type		Certificate number	12345678	
No. of residential flat buildings	0	Climate zone	56	
No. of units in residential flat buildings	0	Project score		
No. of multi-dwelling houses	11	Water	53	Target 40
No. of single dwelling houses	0			
Site details		Thermal Comfort	🖌 Pass	Target Pass
Site area (m²)	867	Energy	14	Target 40
Roof area (m²)	233		•	•
Non-residential floor area (m²)	0			
Residential car spaces	0			
Non-residential car spaces	0			

(iii) Thermal Comfort			Show on DA plans	Show on CC/CDC plans & specs	Certifie check
Certificate, and in ad	onstruct the development in accordance with all thermal performance sp cordance with those aspects of the development application or application e used to calculate those specifications.			1	1
	slab heating or cooling system, the applicant must: ition with an R-value of not less than 1.0 around the vertical edges of the	perimeter of the slab: or	1	1	1
(bb) On a susper	nded floor, install insulation with an R-value of not less than 1.0 underner a perimeter of the slab.				
(h) The applicant must of below.	construct the floors and walls of the development in accordance with the	specifications listed in the table	1	1	1
		Thermal loads			
Dwelling no.	Area adjusted heating load (in mJ/m/lyr)	Area adjusted cool	ing load (in m.	Jim'iye)	
Dwelling no.	Area adjusted heating load (in mJim ² lyr) 27		ing load (in m.	lim'iyr)	
1		Area adjusted cool	ing load (in m.	Jim'iye)	
1 2	27	Area adjusted cool 14	ing load (in m.	limi'yr)	
1 2 3	27 39	Area adjusted cool 14 20	ing load (in m.	Jim'iyr)	
1 2 3 4	27 30 48	Area adjusted cool 14 20 19	ing load (in m.	Jm ⁱ lyr)	
1 2 3 4 5	27 39 48 46	Area adjusted cool 14 20 19 16	ing load (in m.	Jm'lyr)	
1 2 3 4 5 6	27 39 48 46 45	Area adjusted cool 14 20 19 16 20	ing load (in m	Jm/yr)	
1 2 3 4 5 6 7	27 29 48 46 45 41	Area adjusted cool 14 20 19 16 20 34	ing load (in m	Jm/yr)	
1 2 3 4 5 6 7 8	27 29 48 46 45 41 32	Area adjusted cool 14 20 19 16 20 34 24	ing load (in m.	Jm/yr)	
Dwelling no. 1 2 3 4 5 6 7 8 9 10	27 39 48 46 45 41 32 62	Area adjusted cool 14 20 19 16 20 34 24 18	ing load (in m	Jm/yr)	

