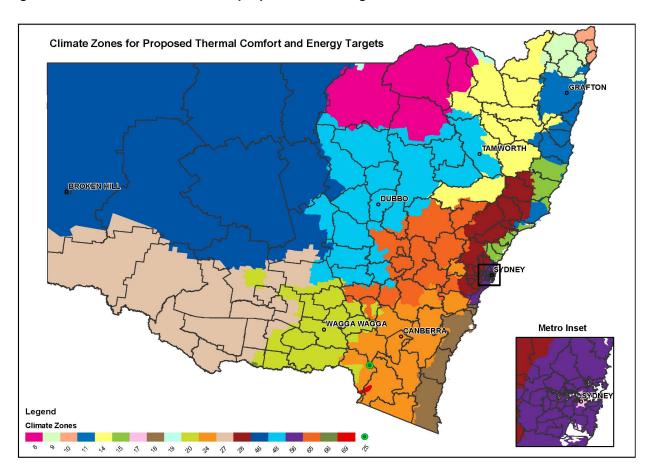


## **BASIX Proposed Higher Standards**

This document shows the proposed BASIX higher standards. The proposed thermal performance and energy standards change depending on the climate zone.

The map below shows the <u>NatHERS climate zones</u> across NSW. The following pages show the proposed standards by climate zones.

Figure 1. NSW climate zones for the proposed BASIX higher standards





### Proposed maximum allowable thermal loads

Table A: Proposed maximum allowable loads for detached and semi-detached dwellings based on floor types

NatHERS climate		Slab on	ground	Suspended Floor				
zone	Total	Heating	Cooling	Heating	Cooling			
	(MJ/m².annum)							
8	75	52	45	48	53			
9	-	24.9	64.6	26.3	67			
10	-	20.4	47.1	23.8	45.9			
11	-	22.9	31.5	26.3	30.2			
14	120	115	10	110	17			
15	51	45.9	29.8	36.1	32.9			
17	30	15.5	17.5	25	15.1			
18	61	55	28.1	53.4	32.5			
20	96	90	32.6	85.1	41.1			
24	122	117	30	108	35			
25	298	No Max	No Max	No Max	No Max			
27	79	75.6	47.3	64.2	52.8			
28	60	54.9	37.5	53.6	43.4			
46	75	45.3	44.7	51	47.9			
48	79	70.9	20.8	67.1	27.9			
56	30	24.4	17.9	24.4	18.9			
65	156	150	15.7	149.8	38.5			
69	277	No Max	No Max	No Max	No Max			

#### Note:

For NatHERS climate zones 9, 10 and 11, there are no changes from the current thermal comfort requirements. Values of maximum allowable loads are revised to align with the updated NatHERS star band.

# **BASIX Higher Standards**





Table B: Proposed maximum allowable loads for multi-unit developments (5 storeys or lower)

NatHERS climate	Individual dwellings			Average of all dwellings			
zone	Total	Heating	Cooling	Total	Heating	Cooling	
	(MJ/m².annum)						
8	-	47.8	74.9	-	45.6	71.3	
9	-	26.4	68.6	-	24.9	64.6	
10	-	21.4	49.4	-	20.4	47.1	
11	-	24.1	33.2	-	22.9	31.5	
14	-	189.2	37.4	-	176.1	34.8	
15	-	55.8	33	-	53.3	31.6	
17	-	24.8	27.9	-	23.9	26.9	
18	-	78.3	33.5	-	73.5	31.5	
20	-	133.5	52.1	-	123.6	48.3	
24	-	200.5	40.2	-	185.7	37.2	
25	-	503	No Max	-	475	No Max	
27	-	80.4	65.5	-	74.9	61	
28	-	61.7	62.2	-	56.2	56.7	
46	-	53.3	66	-	51.4	63.5	
48	-	94.1	48.4	-	88.4	45.5	
56	-	32.3	21	-	30.9	20	
65	-	254.4	24.2	-	239.3	22.7	
69	-	492.1	No Max	-	455	No Max	

#### Note:

For multi-unit developments (5 storeys or lower), there are no changes from the current thermal comfort requirements. Values of maximum allowable loads are revised to align with the updated NatHERS star band.

# **BASIX Higher Standards**





Table C: Proposed maximum allowable loads for multi-unit developments (6 storeys or higher)

NatHERS climate zone	Individual dwellings			Average of all dwellings		
	Total	Heating	Cooling	Total	Heating	Cooling
	(MJ/m².annum)					
8	95	68.3	71.9	75	51	50
9		26.4	68.6	-	24.9	64.6
10	-	21.4	49.4	-	20.4	47.1
11	-	24.1	33.2	-	22.9	31.5
14	158	155	10.7	120	118	6
15	66	53	33.8	51	45.4	32.3
17	39	35	20.4	30	28	17.6
18	81	65.5	34.4	61	56.2	32.7
20	127	117.2	47.3	96	90	40.9
24	161	157.2	31.9	122	118	24
25	366	No Max	No Max	298	No Max	No Max
27	103	81.3	54.4	79	68	45.5
28	79	65.1	61.8	60	59.6	45
46	94	65.1	61.8	75	51	48.4
48	104	94.2	30.8	79	75.9	25.2
56	38	32.5	19.8	30	28.1	18.7
65	200	183.5	20.6	156	153.3	33.1
69	339	No Max	No Max	277	No Max	No Max

#### Note:

For NatHERS climate zones 9, 10 and 11, there are no changes from the current thermal comfort requirements. Values of maximum allowable loads are revised to align with the updated NatHERS star band.

## **BASIX Higher Standards**





Table D: Proposed energy standards for single dwelling and multi-dwelling developments

NatHERS climate	Detached and semi- detached		Low rise	Mid rise	High rise	High rise
zone	Floor area (<= 110m²)	Floor area (>110m²)	(3 storey multi units)	(4 – 5 storey multi units)	(6-20 storey multi units)	(21 storey multi units and higher)
8	65	69	63	57	59	61
9	65	67	64	59	57	58
10	66	68	65	60	58	61
11	67	70	66	61	59	61
14	62	65	62	57	55	58
15	67	70	64	59	60	62
17	68	72	67	62	62	63
18	66	69	63	58	60	61
20	64	67	61	56	57	59
24	60	63	60	55	55	58
25	51	53	52	47	43	48
27	65	68	62	57	58	60
28	66	70	62	57	60	62
46	65	68	62	57	58	61
48	65	68	63	59	58	60
56	68	72	67	63	62	63
65	60	62	60	55	53	56
69	53	54	53	48	44	50

<sup>©</sup> State of New South Wales through Department of Planning, Industry and Environment 2021. The information contained in this publication is based on knowledge and understanding at the time of writing (November 2021). However, because of advances in knowledge, users should ensure that the information upon which they rely is up to date and to check the currency of the information with the appropriate departmental officer or the user's independent adviser.