

Thermal Comfort Assessment

BUILDING
SUSTAINABILITY
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Mr & Mrs B Nash

Development application for:

6 Bedford Crescent

Collaroy, NSW, 2097

Issue	File Ref	Description	Author	Date
A	-	Original Thermal Comfort Assessment	-	2010
B	8379	Update to original Thermal Comfort Assessment	KH	01/10/14

Thermal Comfort Assessment

This home has been assessed under the thermal simulation method of the BASIX Protocol

Assessor Tracey Cools
Accreditation Number VIC/BDAV/12/1473

BASIX Details Certificate Number: 14732135
BASIX adjusted conditioned area: 264m² Area adjusted cooling load: 49 MJ/m²/pa
BASIX adjusted un-conditioned area: 14m² Area adjusted heating load: 27 MJ/m²/pa

Specification The following specification was used to achieve the thermal performance values. Modelling proxies are used at times and if the buildings element details vary the thermal performance specifications below shall take precedence.
If there is a change to this specification during design or construction phases please contact Efficient Living for advice and if required an updated certificate will be issued.

Thermal Performance Specifications	
Floors	Concrete slab on ground with no insulation Timber to ground & first floor, no insulation required between levels internally.
Walls	External walls: Brick veneer with R1.5 bulk insulation, light colour (SA<0.475) Internal walls: Plasterboard on studs, no insulation
Windows	Aluminium frames with single clear glass U-Value (equal to or lower than): 6.57 SHGC (+ or - 10%): 0.74 Given values are NFRC, total window values
Skylights	None
Ceilings	Plasterboard with R2.5 bulk insulation It has been assumed at DA stage that the area of all ceiling penetrations is less than 0.5% of the total ceiling area. If down lights are proposed at a later stage, BCA loss of insulation calculations will be required.
Roof	Metal roof with no insulation, medium colour (SA 0.475-0.7).
Floor coverings	Tiles to wet areas, timber to living areas and carpet to bedrooms
External shade	Covered Balconies and eaves – as per plans
Ventilation	All external doors have weather seals, all exhaust fans and chimneys have dampers, any down lights proposed will have capped fittings.

BCA requirements

In addition to the BASIX requirements; all new residential dwellings (class 1 buildings)
Must comply with; NSW PART 3.12.1 Building sealing & 3.12.5.0 - 3.12.5.3