

BCA ENERGY EFFICIENCY CHECK SHEET PART 3.12

 Residential (Class 1) and attached Class 10A (garages) in **Climate Zone 5**

PROPERTY THIS APPLICATION RELATES TO - BA _____ / _____			
_____	_____	_____	_____
Lot No.	House No.	Street Name	Suburb

				Application	Details of compliance
ROOF INSULATION (total required = R2.7)					
Flat ceilings with pitched roofs		RBM + R2.0 or add total of R2.5		<input type="checkbox"/>	
Flat, skillion, cathedral roofs		RBM + R1.5 or add total of R2.5		<input type="checkbox"/>	
WALL INSULATION (total required = R1.4)					
Double Brick >220kg/m ²		Nil requirements		<input type="checkbox"/>	
Brick veneer		RBM only or add total of R1.0		<input type="checkbox"/>	
All other walls (specified in BCA Figure 3.12.1.5)		RBM + R1.0 or add total of R1.0		<input type="checkbox"/>	
FLOOR INSULATION (N/A)					
Suspended timber & concrete		Nil requirements		<input type="checkbox"/>	
AIR MOVEMENT REQUIREMENTS TO HABITABLE ROOMS					
Minimum total ventilation opening area (% of room area)	Without fan	7.5%		<input type="checkbox"/>	
	With fan	5%		<input type="checkbox"/>	
Breeze Path Provisions	1. Must pass through no more than 2 ventilation openings in internal walls. Opening area of not less than 1.5m ² . 2. Not more than 20m between ventilation openings.			<input type="checkbox"/>	
Total Vent Openings	Connecting breeze path to ventilation opening in another room, or 2 vent openings min. in 1 room with openings' area not less than 25% of area required above.			<input type="checkbox"/>	
EFFECTIVE GLAZING AREA (% of total glazing area to total floor area of the storey)					
Glazing type	Shade	Max %	Actual	<input type="checkbox"/>	
Single clear glass Aluminium Standard frame	No shade	26			
	300mm	31			
	450-900mm	34			
Toned glass (min. 5mm thick) Aluminium Standard frame	No shade	34		<input type="checkbox"/>	
	300mm	34			
	450-900mm	34			
Single solare control, pyrolytic low e glass Aluminium Standard frame	No shade	46		<input type="checkbox"/>	
	300mm	47			
	450-900mm	47			

		Application	Details of compliance
ROOF LIGHTS (Less than 5% of the floor area of room)			
Shaft Length		<input type="checkbox"/>	
Over 1.5m	Nil requirement		
0.6m to 1.5m	Controlled glazing to roof light if total area of roof light is 3% to 5% of the room area.	<input type="checkbox"/>	
Less than 0.6m	Controlled glazing to roof light if total area of roof light is 1.5% to 3% of the room area.	<input type="checkbox"/>	
<ul style="list-style-type: none"> Aggregate area of roof lights for a building must not exceed 3% of the total floor area of the house. Roof lights exceeding 5% of the floor area of a room may only be used if other openings are not available to provide adequate light (refer BCA Clause 3.12.1.3 for further detail) Roof lights under main roof – not alfresco areas 			
BUILDING SEALING			
Evaporative air conditioning will be installed.	Nil requirement	<input type="checkbox"/>	
All other cases	Seal chimneys and flues of solid fuel burning device with damper or flaps and exhaust fans serving conditioned spaces with a self sealing device	<input type="checkbox"/>	
	Seal roof lights, external doors and windows	<input type="checkbox"/>	
CLASS 10A ATTACHMENTS			
The attached Class 10a must achieve the required R-Value of the Class 1 building.		<input type="checkbox"/>	
SERVICES			
Evaporative Cooling Ductwork	Located externally or in roof space - min R0.6	<input type="checkbox"/>	
Refrigerated cooling or Heating ductwork	Located externally or in roof space - min R1.0	<input type="checkbox"/>	
Hot water supply system	To be designed and installed in accordance with Section 6A of AS/NZS 3500.4.2 or clause 3.38 of AS/NZS 3500.5	<input type="checkbox"/>	

INTERPRETATION	
RBM	means a reflective building membrane with a reflective surface such as reflective foil laminate or foil batt capable of reducing radiant heat flow (a) With a reflectance of at least 0.95 and; (b) With an emittance of not more than 0.0.5.
Solid Fuel Burning Device	is a heater that burns material such as timber coal and the like – it does not refer to gas or liquid fuel burning devices
Conditioned Space	means a space within a building that is heated or cooled by a domestic services which includes, gas heating & air-conditioning (Refer BCA for further detail)
Controlled Glazing	Glazing to a roof light that achieves a Solar Heat Gain Co-efficient of not more than 0.75 and a Total U-Value of not more than 5.0
Ventilation Opening	means an opening in an external wall, floor or roof of a building designed to allow air movement into or out of a building by natural means, including a permanent opening, an openable part of a window, or door or other device which can be held open

The details provided on this Conformance Sheet are true and correctly reflect the plans and specifications submitted for a building licence:

Signature

Builder or representative

Contact

Date

Position

Checking Building Surveyor

Date