

BUILDING CODE of AUSTRALIA
6-STAR ENERGY EFFICIENCY VERIFICATION

Lot No: _____ House No: _____ Street name: _____

Suburb/Town: _____ Post code: _____

Owner Builder Name: _____

Type of building: New House House addition Habitable outbuilding
 Type of construction: Brick vaneer Cavity brick Framed composite

Part 3.12.0.1 THERMAL CALCULATION METHOD		N/A	Yes
This building has been thermally assessed using an energy rating tool and complies with P2.6.1 . A copy of the rating certificate is attached. (If yes, only complete Parts 3.12.1.1, 3.12.1.2(c)and(e), 3.12.1.4(b), 3.12.1.5(c)and(d), and Part 3.12.3)		<input type="checkbox"/>	<input type="checkbox"/>
Part 3.12.1 BUILDING FABRIC			
3.12.1.1 Building thermal insulation			
All insulation will be installed in accordance with the requirements of 3.12.1.1 and comply with AS/NZS 4859.1		<input type="checkbox"/>	<input type="checkbox"/>
3.12.1.2(a) R-Value of roof and ceiling – Climate zones 1-7			
Climate zones 1 - 7	Roof covering has an upper surface solar absorptance of not more than 0.4 and the Total R-Value of the roof and ceiling will be not less than 4.1	<input type="checkbox"/>	<input type="checkbox"/>
	Roof covering has an upper surface solar absorptance of more than 0.4 but not less than 0.6 and the Total R-Value of the roof and ceiling will be not less than 4.6	<input type="checkbox"/>	<input type="checkbox"/>
	Roof covering has an upper surface solar absorptance of more than 0.6 and the Total R-Value of the roof and ceiling will be not less than 5.1	<input type="checkbox"/>	<input type="checkbox"/>
Climate zone 8 only	the Total R-Value of the roof and ceiling will be not less than 6.3	<input type="checkbox"/>	<input type="checkbox"/>
3.12.1.2(c) Thermal breaks			
The roof requires thermal breaks and these will be installed in accordance with the BCA.		<input type="checkbox"/>	<input type="checkbox"/>
3.12.1.2(e) Adjustment of R-Value of ceiling insulation.			
There are down lights and/or other penetrations that will result in a loss of ceiling insulation and this will be adjusted in accordance with BCA Table 3.12.1.1b	% of loss	Adjusted R-Value	<input type="checkbox"/>
			<input type="checkbox"/>

3.12.1.3(a) Roof lights				N/A	Yes
There are no roof lights serving a habitable room or interconnecting spaces.				<input type="checkbox"/>	<input type="checkbox"/>
There are roof lights serving a habitable room or interconnecting space, and the aggregate area is less than 2% of the floor area of the space they serve and attached is supporting evidence that the SHGC and total U-Value comply with the requirements of Table 3.12.1.2 .				<input type="checkbox"/>	<input type="checkbox"/>
The aggregate area of roof lights is between 2% and 3% of the floor area of the space they serve and attached is supporting evidence that the SHGC and total U-Value comply with the requirements of Table 3.12.1.2 .				<input type="checkbox"/>	<input type="checkbox"/>
The aggregate area of roof lights is between 3% and 4% of the floor area of the space they serve and attached is supporting evidence that the SHGC and total U-Value comply with the requirements of Table 3.12.1.2 .				<input type="checkbox"/>	<input type="checkbox"/>
The aggregate area of roof lights is between 4% and 5% of the floor area of the space they serve and attached is supporting evidence that the SHGC and total U-Value comply with the requirements of Table 3.12.1.2 .				<input type="checkbox"/>	<input type="checkbox"/>
3.12.1.3(b) Roof lights used for natural lighting requirements					
The only provision for natural light for habitable rooms is through roof lights that exceed 5% of the floor area. Attached is supporting evidence verifying that the SHGC is not more than 0.29 and total U-Value is not more than 2.29				<input type="checkbox"/>	<input type="checkbox"/>
1.12.1.4 External walls					
BCA Table 3.12.1.3a (all construction types)					
Wall Construction Type (From BCA Figure 3.12.1.3)	R-Value of construction	Required Total R-Value	R-Value of Insulation to be Installed		
		R 2.8		<input type="checkbox"/>	<input type="checkbox"/>
Climate zones 1, 2, 3, 4 & 5 only	The above wall construction will be shaded with a projection not less than 15 degrees	R 2.4		<input type="checkbox"/>	<input type="checkbox"/>
Climate zone 8 only		R 3.8		<input type="checkbox"/>	<input type="checkbox"/>
For wall construction types that are not provided for by BCA Figure 3.12.1.3 , documentary evidence is attached demonstrating the R-Value of the construction and any added insulation.				<input type="checkbox"/>	<input type="checkbox"/>
BCA Table 3.12.1.3b – (External walls with surface density not less than 220kg/m ²)					
Climate zone 1, 2 & 3					
The building is single storey and all external walls will have not less than R0.5 insulation added and will be shaded with a projection not less than 15 degrees and all internal walls are masonry laid on a concrete slab on ground				<input type="checkbox"/>	<input type="checkbox"/>
The building has multi storeys and all external walls will have not less than R0.5 insulation added and the top storey walls will be shaded with a projection not less than 15 degrees . All other storeys that are not shaded by a projection will have the U-Value of the external glazing, as required by Table 3.12.2.1 , reduced by 20% . The ground floor has habitable rooms with internal masonry walls laid on a concrete slab on ground				<input type="checkbox"/>	<input type="checkbox"/>

Climate zone 4 & 6				N/A	Yes	
The external walls will have not less than R0.5 insulation added and the U-Value of the external glazing as required by Table 3.12.2.1 will be reduced by 15% . The ground floor has habitable rooms with internal masonry walls laid on a concrete slab on ground				<input type="checkbox"/>	<input type="checkbox"/>	
The U-Value of the external glazing as required by Table 3.12.2.1 will be reduced by 20% .				<input type="checkbox"/>	<input type="checkbox"/>	
The external walls will have not less than R1.0 insulation added and the ground floor has habitable rooms with internal masonry walls on a concrete slab on ground				<input type="checkbox"/>	<input type="checkbox"/>	
Climate zone 5						
The building is single storey and all external walls will be shaded with a projection not less than 15 degrees and the all internal walls are masonry laid on a concrete slab on ground				<input type="checkbox"/>	<input type="checkbox"/>	
The building has multi storeys and all external walls will have not less than R0.5 insulation added and the top storey walls will be shaded with a projection not less than 15 degrees . All other storeys that are not shaded by a projection will have the U-Value of the external glazing, as required by BCA Table 3.12.2.1 , reduced by 15% . The ground floor has habitable rooms with internal masonry walls laid on a concrete slab on ground				<input type="checkbox"/>	<input type="checkbox"/>	
				<input type="checkbox"/>	<input type="checkbox"/>	
Climate zone 7						
The external walls will have R1.5 insulation added.				<input type="checkbox"/>	<input type="checkbox"/>	
The external walls will have R1.0 insulation added and the U-Value of the external glazing required by Table 3.12.2.1 will be reduced by 15% .				<input type="checkbox"/>	<input type="checkbox"/>	
The external walls will have R0.5 insulation added and the U-Value of the external glazing required by Table 3.12.2.1 will be reduced by 20% .				<input type="checkbox"/>	<input type="checkbox"/>	
3.12.1.4(b) Thermal breaks						
The external walls require thermal breaks and these will be installed in accordance with the BCA.				<input type="checkbox"/>	<input type="checkbox"/>	
3.12.1.5 Floors (only applicable to suspended floors forming part of the envelope)						
Suspended Floor Construction Type (From BCA Figure 3.12.1.4)	R-Value of construction	Require Total R-Value		R-Value of Insulation to be Installed		
		Climate zone	R-Value			
					<input type="checkbox"/>	<input type="checkbox"/>
This building has a concrete slab on ground with no in-slab heating system. No further insulation is required.					<input type="checkbox"/>	<input type="checkbox"/>
This building has a suspended floor with an in-slab heating system and insulation of R1.0 will be added around its perimeter and R2.0 to underneath the slab.					<input type="checkbox"/>	<input type="checkbox"/>
This building has a concrete slab on ground with in-slab heating system and insulation of R1.0 will be added to its perimeter.					<input type="checkbox"/>	<input type="checkbox"/>
1.12.1.6 Class 10a buildings (if attached to a Class 1, it must satisfy one of the options in BCA Figure 3.12.1.6)						
There is a garage, storeroom or the like attached to the house and it will be thermally separated from the conditioned space of the building.					<input type="checkbox"/>	<input type="checkbox"/>

Part 3.12.2 EXTERNAL GLAZING	N/A	Yes
All external glazing complies and will be installed in accordance with 3.12.2.1 . A copy of the calculations (ABCB glazing calculator or equivalent) is attached, verifying compliance.	<input type="checkbox"/>	<input type="checkbox"/>
Part 3.12.3 BUILDING SEALING		
All chimneys, flues and exhaust fans are fitted with dampers in accordance with 3.12.3.1	<input type="checkbox"/>	<input type="checkbox"/>
All roof lights serving habitable rooms or conditioned spaces will be sealed in accordance with 3.12.3.2	<input type="checkbox"/>	<input type="checkbox"/>
External windows and doors serving habitable rooms or conditioned spaces will be fitted with air infiltration seals in accordance with 3.12.3.3	<input type="checkbox"/>	<input type="checkbox"/>
Exhaust fans serving habitable rooms or conditioned spaces will be sealed in accordance with 3.12.3.4	<input type="checkbox"/>	<input type="checkbox"/>
Roofs, walls and floors that form part of the external fabric of habitable rooms or conditioned spaces will be constructed to minimise air leakage in accordance with 3.12.3.5	<input type="checkbox"/>	<input type="checkbox"/>
Evaporative coolers serving habitable rooms or heated spaces will be fitted with dampers in accordance with 3.12.3.6	<input type="checkbox"/>	<input type="checkbox"/>
Part 3.12.5 BUILDING SERVICES		
The hot water system will comply with the requirements of Section 8 of AS/NZS 3500.4	<input type="checkbox"/>	<input type="checkbox"/>
There will be heating and/or cooling ductwork installed and these will be sealed and installed in accordance with AS 4254 and will be insulated in accordance with the with the requirements of Table 3.12.5.2	<input type="checkbox"/>	<input type="checkbox"/>

Verification Declaration

I declare that the details provided on this verification sheet (and any supporting documentation accompanying them), are true and correctly reflect the plans and specifications of the proposed building that has been submitted for approval to construct.

Name of owner builder: _____

Address: _____

Phone No: _____ **Email:** _____

Signature: _____ **Date:** ____/____/____

NOTE: This verification sheet is designed to be used in conjunction with the Deemed-to-Satisfy (DTS) Provisions of the Building Code of Australia Part 3.12. It should not replace the BCA.

For assistance in filling out this sheet, please contact the relevant approval authority or Building Surveyor.

The information contained in this verification sheet is intended for general guidance only and must not be relied upon in any particular set of circumstances.