# NatHERS for existing homes

## Thermal standardisation and specification document

Nationwide House Energy Rating Scheme®

Version: 20250520

**Cataloguing data**

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**Acknowledgement of Country**

We acknowledge the Traditional Owners of Country throughout Australia and recognise their continuing connection to land, waters and culture. We pay our respects to their Elders past and present.

**About the Nationwide House Energy Rating Scheme (NatHERS)**

NatHERS supports improvements to the energy efficiency and comfort of Australia's dwellings by standardising the approach and guidelines for NatHERS accredited software to assess dwellings across Australia.

The Australian Government administers NatHERS on behalf of the Commonwealth and state and territory governments.

**For more information visit** www.nathers.gov.au

## Thermal standardisation and specification document Change Log

| **Version number** (YYYYMMDD) | **Comments** |
|---|---|
| 20250520 | Final for launch<br>External window coverings – correction to values<br>Skylights and roof windows – updates to required inputs<br>Doors – minor updates<br>Wall constructions – internal single brick added<br>Floor coverings – lino added, minor text clarification<br>Airtightness - Ceiling vent value updated |

# Contents

# 1 Introduction

## Purpose

1.1 This document:

a. specifies data sets, fixed inputs and validation rules for existing homes
b. supplements the NatHERS Software Accreditation Protocol for existing homes
c. sets out the thermal settings which are different to new homes

1.2 This document must be read in conjunction with:

a. Software standardisation document for new homes - many of the new home settings are also applied to existing homes
b. Whole of home national calculation method - covers settings for fixed appliances and energy generation and storage
c. Existing homes technical note

## Versioning

1.3 This is a living document. It is continually updated based on feedback and as part of the ongoing improvement process. The change log is at the beginning of the document.

1.4 To ensure you have the latest version, please contact the NatHERS Administrator.

# 2 Orientation, pitch and year of construction

2.1 The following tables indicate the required User Interface (UI) input fields and the corresponding values to be applied for simplified orientation, pitch and year of construction.

**Table 1 - Simplified orientation values**

| UI input fields | | | Values applied by software |
|---|---|---|---|
| Orientation (quadrant) | | | Orientation (degrees) |
| N | or | 337.5° to < 22.5° | 0° |
| NE | or | 22.5° to < 67.5° | 45° |
| E | or | 67.5° to < 112.5° | 90° |
| SE | or | 112.5° to < 157.5° | 135° |
| S | or | 157.5° to < 202.5° | 180° |
| SW | or | 202.5° to < 247.5° | 225° |
| W | or | 247.5° to < 292.5° | 270° |
| NW | or | 292.5° to < 337.5° | 315° |

### Table 2 - Simplified pitch values

| UI input fields | Values applied by software |
|---|---|
| **Pitch (simplified)** | **Pitch (degrees)** |
| Flat (0 - < 10°) | 5° |
| Moderate (10 – < 35°) | 23° |
| Steep (≥ 35°) | 40° |

### Table 3 – Class 1 year of construction values

| State | Year | Values applied by software |
|---|---|---|
| ACT | Any year prior to 1993 | Pre-1993 |
| | 1993 onwards | Assign to appropriate date range in Table 27 |
| NSW | Any year prior to 2005 | Pre-2005 |
| | 2005 onwards | Assign to appropriate date range in Table 27 |
| QLD | Any year prior to 2003 | Pre-2003 |
| | 2003 onwards | Assign to appropriate date range in Table 27 |
| SA | Any year prior to 2003 | Pre-2003 |
| | 2003 onwards | Assign to appropriate date range in Table 27 |
| TAS | Any year prior to 2003 | Pre-2003 |
| | 2003 onwards | Assign to appropriate date range in Table 27 |
| VIC | Any year prior to 1991 | Pre-1991 |
| | 1991 onwards | Assign to appropriate date range in Table 27 |
| WA | Any year prior to 2003 | Pre-2003 |
| | 2003 onwards | Assign to appropriate date range in Table 27 |
| NT | Any year prior to 2003 | Pre-2003 |
| | 2003 onwards | Assign to appropriate date range in Table 27 |

### Table 4 - Class 2 year of construction values

| State | Year | Values applied by software |
|---|---|---|
| ACT | Any year prior to 1998 | Pre-1998 |
| | 1998 onwards | Assign to appropriate date range in Table 29 |
| NSW | Any year prior to 2005 | Pre-2005 |
| | 2005 onwards | Assign to appropriate date range in Table 29 |
| QLD | Any year prior to 2006 | Pre-2006 |
| | 2006 onwards | Assign to appropriate date range in Table 29 |
| SA | Any year prior to 2006 | Pre-2006 |
| | 2006 onwards | Assigned to appropriate date range in Table 29 |
| TAS | Any year prior to 2006 | Pre-2006 |
| | 2006 onwards | Assign to appropriate date range in Table 29 |
| VIC | Any year prior to 1991 | Pre-1991 |
| | 1991 onwards | Assign to appropriate date range in Table 29 |
| WA | Any year prior to 2006 | Pre-2006 |
| | 2006 onwards | Assign to appropriate date range in Table 29 |
| NT | Any year prior to 2011 | Pre-2011 |
| | 2011 onwards | Assign to appropriate date range in Table 29 |

# 3 Walls, floors, ceilings and roofs

3.1 As a minimum, the following standard construction types must be available for selection in the User Interface.

**Table 5 – Simplified wall constructions**

| UI input fields | | Values applied by software |
|---|---|---|
| **Type** | **Insulation Options**[1] | **Construction** |
| Brick Veneer | Default or | 110 mm extruded clay brick |
| | | 40 mm non-reflective air gap |
| | User specified value | Insulation value applied<br>(if none, assume 90mm non-reflective air gap) |
| | | 10 mm plasterboard |
| Fibre cement clad | Default or | 6 mm fibre cement sheet |
| | | Insulation value applied |
| | User specified value | (if none, assume 90mm non-reflective air gap) |
| | | 10 mm plasterboard |
| Metal clad | Default or | 1 mm steel |
| | | Insulation value applied |
| | User specified value | (if none, assume 90mm non-reflective air gap) |
| | | 10 mm plasterboard |
| Timber clad | Default or | 19 mm timber (softwood) |
| | | Insulation value applied |
| | User specified value | (if none, assume 90mm non-reflective air gap) |
| | | 10 mm plasterboard |
| Externally insulated facade | Default | 5mm render (cement sand 1:4) |
| | | 75 mm EPS |
| | User specified value | Insulation value applied |
| | | (if none, assume 90mm non-reflective air gap) |
| | | 10 mm plasterboard |
| Concrete pre-cast panel | | 100 mm concrete (2400kg/m3) |
| Concrete pre-cast panel - plasterboard | | 100 mm concrete (2400kg/m3) |
| | | 10 mm plasterboard |
| Concrete block | | 190 mm concrete block (core filled 600 ctrs) |
| Concrete block - plasterboard | | 190 mm concrete block (core filled 600 ctrs) |
| | | 10 mm plasterboard |
| AAC | Default or | 75 mm aerated autoclaved concrete<br>90 mm non-reflective air gap |
| | User specified value | Insulation value applied<br>(if none, assume 90mm non-reflective air gap) |
| | | 10 mm plasterboard |

[1] Default insulation values to be applied based on building class, location and year of construction are indicated in Table 27 and Table 29. Software also requires a user specified field to allow assessors to input an exact R-value derived from documentation.

| UI input fields | | Values applied by software |
|---|---|---|
| **Type** | **Insulation Options[2]** | **Construction** |
| Cavity/Double brick | Default or<br><br>User specified value | 110 mm extruded clay brick |
| | | Insulation value applied<br>(if none, assume 40mm non-reflective air gap) |
| | | 110 mm extruded clay brick |
| Cavity brick – plasterboard internally | Default<br><br>User specified value | 110 mm extruded clay brick |
| | | Insulation value applied<br>(if none, assume 40mm non-reflective air gap) |
| | | 110 mm extruded clay brick |
| | | 10 mm plasterboard |
| Reverse brick veneer – fibre cement clad | Default or<br><br>User specified value | 6 mm fibre cement sheet |
| | | 40 mm non-reflective air gap |
| | | Insulation value applied<br>(if none, assume 90mm non-reflective air gap) |
| | | 110 mm extruded clay brick |
| Mud brick | | 300mm mud brick |
| Rammed earth | | 300mm rammed earth |
| Straw bale - rendered | N/A | 450mm straw bale |
| Internal – Plasterboard stud | Default or<br><br>User specified value | 10 mm plasterboard |
| | | Insulation value applied<br>(if none, assume 90mm non-reflective air gap) |
| | | 10 mm plasterboard |
| Internal – Brick | N/A | 10mm render (cement sand 1:4) |
| | | 110 mm extruded clay brick |
| | | 10mm render (cement sand 1:4) |

[2] Default insulation values to be applied based on building class, location and year of construction are indicated in Table 27 and Table 29. Software also requires a user specified field to allow assessors to input an exact R-value derived from documentation.

### Table 6 – Simplified floor constructions

| UI input fields | | Values applied by software |
|---|---|---|
| **Type** | **Insulation Options[3]** | **Construction** |
| Concrete slab on ground | Default or User specified value | 100 mm concrete (2400kg/m3) |
| | | Insulation value applied |
| Waffle pod slab | N/A | 85 mm concrete (2400kg/m3) |
| | | 175 mm waffle pod |
| Suspended slab over subfloor | Default or User specified value | 150 mm concrete (2400kg/m3) |
| | | Insulation value applied |
| | | Subfloor zone |
| Suspended slab over outdoor air | Default or User specified value | 150 mm concrete (2400kg/m3) |
| | | Insulation value applied |
| Suspended timber over subfloor | Default or User specified value | 19 mm timber (mountain ash) |
| | | Insulation value applied |
| | | Subfloor zone |
| Suspended timber over outdoor air | Default or User specified value | 19 mm timber (mountain ash) |
| | | Insulation value applied |

### Table 7 – Simplified sub floor space ventilation

| UI input field | Values applied by software |
|---|---|
| **Type (may be derived from previous entry)** | **Infiltration metric** |
| Enclosed | Enclosed category – assume no wall cavity<br>Refer to Infiltration Calculations in AccuRate V2.0.2.13 Dong Chen CSIRO Sustainable Ecosystems 9/12/2013 |
| Open | |
| Very open | |

### Table 8 – Simplified floor coverings

| UI input fields | Values applied by software |
|---|---|
| None | No covering |
| Carpet | 10mm Carpet + 8mm rubber underlay |
| Tiles | 8mm tiles |
| Floating floorboards (timber/vinyl/composite) | 12mm timber softwood |
| Lino/Vinyl | 3mm linoleum |

[3] Default values to be applied based on building class, location and year of construction are indicated in Table 27 and Table 29. Software also requires a user specified field to allow assessors to input an exact R-value derived from documentation.

### Table 9 - Simplified ceiling and roof constructions

| UI input fields | | Values applied by software |
|---|---|---|
| **Type** | **Insulation Options[4]** | **Construction** |
| Attic – metal | Default or<br>User specified value | Roof: Roof space zone with Metal roof (2 mm steel) |
| | | Ceiling: Insulation value applied<br>(if none, assume 90 mm non-reflective air gap) |
| | | Ceiling: 10 mm plasterboard ceiling |
| Attic – tile | Default or<br>User specified value | Roof: Roof space zone with tiled roof (20 mm clay) |
| | | Ceiling: Insulation value applied<br>(if none, assume 90 mm non-reflective air gap) |
| | | Ceiling: 10 mm plasterboard ceiling |
| Flat framed/skillion – metal – flat ceiling | Default or<br>User specified value | Metal roof (2 mm steel) |
| | | Insulation value applied<br>(if none, assume 90 mm non-reflective air gap) |
| | | 10 mm flat plasterboard ceiling |
| Flat framed/skillion – tile – flat ceiling | Default or<br>User specified value | Tiled roof (20 mm clay) |
| | | Insulation value applied<br>(if none, assume 90 mm non-reflective air gap) |
| | | 10 mm flat plasterboard ceiling |
| Flat framed/skillion – metal – cathedral ceiling | Default or<br>User specified value | Metal roof (2 mm steel) |
| | | Insulation value applied<br>(if none, assume 90 mm non-reflective air gap) |
| | | 10 mm cathedral plasterboard ceiling |
| Flat framed/skillion – metal – cathedral ceiling | Default or<br>User specified value | Tiled roof (20 mm clay) |
| | | Insulation value applied<br>(if none, assume 90 mm non-reflective air gap) |
| | | 10 mm cathedral plasterboard ceiling |
| Concrete slab – suspended ceiling | Default or<br>User specified value | 150 mm concrete |
| | | Insulation value applied<br>(if none, assume 90 mm non-reflective air gap) |
| | | Suspended 10 mm plasterboard ceiling |
| Concrete slab - exposed | N/A | 150 mm concrete |

[4] Default values to be applied based on building class, location and year of construction are indicated in Table 27 and Table 29. Software also requires a user specified field to allow assessors to input an exact R-value derived from documentation.

## Table 10 – Simplified roof space ventilation

| UI input field | | | Values applied by software |
|---|---|---|---|
| **Ventilation** | **Sarking** | **Roof type (may be derived from previous entry in software)** | **Infiltration metric** |
| Minimum - no dedicated roof space ventilator (equivalent to current 'Standard' setting in AccuRate) | Yes | Continuous (e.g. metal deck) | Refer to Infiltration Calculations in AccuRate V2.0.2.13 Dong Chen CSIRO Sustainable Ecosystems 9/12/2013 |
| | | Discontinuous (e.g. tiles) | |
| | No | Continuous | |
| | | Discontinuous | |
| Natural - either wind driven roof space ventilator/ ridge caps or eave vents and ridge caps (equivalent to current 'Ventilated' setting in AccuRate) | Yes | Continuous | |
| | | Discontinuous | |
| | No | Continuous | |
| | | Discontinuous | |
| Mechanical - eave vents and powered roof space ventilator (equivalent to 'Highly Ventilated' setting in AccuRate) | Yes | Continuous | |
| | | Discontinuous | |
| | No | Continuous | |
| | | Discontinuous | |

# 4 Windows, skylights, roof windows and doors

4.1 The following tables indicate the required User Interface (UI) input fields and the corresponding values to be applied for simplified windows, skylights, roof windows and doors.

**Table 11 - Simplified windows**

| UI inputs | | | | Values applied by software | | |
|---|---|---|---|---|---|---|
| **Operating Type** | **Frame material** | **Glazing type** | **Glazing Description** | **NatHERS Code** | **U Value** | **SHGC** |
| Group A<br><br>e.g.<br>Awning<br>Hopper<br>Bi-fold<br>Casement<br>Hinged door<br>Tilt 'n' turn | Aluminium | Single glazing | Clear | ALM-001-01 A | 6.7 | 0.57 |
| | | | Tinted | ALM-001-02 A | 6.6 | 0.41 |
| | | | Low-E Clear | ALM-001-03 A | 5.4 | 0.49 |
| | | | Low-E Tint | ALM-001-04 A | 5.6 | 0.36 |
| | | Double glazing – air filled | Clear | ALM-003-01 A | 4.8 | 0.51 |
| | | | Tinted | ALM-003-02 A | 5.2 | 0.35 |
| | | | Low-E Clear | ALM-003-03 A | 4.3 | 0.47 |
| | | | Low-E Tint | ALM-003-04 A | 4.9 | 0.33 |
| | | Double glazing – argon filled | Clear | ALM-005-01 A | 4.5 | 0.50 |
| | | | Tinted | ALM-005-02 A | 5.1 | 0.32 |
| | | | Low-E Clear | ALM-005-03 A | 4.1 | 0.47 |
| | | | Low-E Tint | ALM-005-04 A | 4.8 | 0.34 |
| | Timber | Single glazing | Clear | TIM-001-01 W | 5.4 | 0.56 |
| | | | Tinted | TIM-001-02 W | 5.4 | 0.41 |
| | | | Low-E Clear | TIM-001-03 W | 4.3 | 0.42 |
| | | | Low-E Tint | TIM-001-04 W | 3.7 | 0.35 |
| | | Double glazing – air filled | Clear | TIM-003-01 W | 3.0 | 0.48 |
| | | | Tinted | TIM-003-02 W | 2.9 | 0.33 |
| | | | Low-E Clear | TIM-003-03 W | 2.3 | 0.26 |
| | | | Low-E Tint | TIM-003-04 W | 2.3 | 0.19 |
| | | Double glazing – argon filled | Clear | TIM-005-01 W | 2.6 | 0.50 |
| | | | Tinted | TIM-005-02 W | 2.5 | 0.25 |
| | | | Low-E Clear | TIM-005-03 W | 2.0 | 0.25 |
| | | | Low-E Tint | TIM-005-04 W | 2.0 | 0.18 |
| | uPVC | Single glazing | Clear | PVC-001-01 W | 5.4 | 0.56 |
| | | | Tinted | PVC-001-02 W | 5.4 | 0.41 |
| | | | Low-E Clear | PVC-001-03 W | 4.3 | 0.42 |
| | | | Low-E Tint | PVC-001-04 W | 3.7 | 0.35 |
| | | Double glazing – air filled | Clear | PVC-003-01 W | 3.0 | 0.48 |
| | | | Tinted | PVC-003-02 W | 2.9 | 0.33 |
| | | | Low-E Clear | PVC-003-03 W | 2.3 | 0.26 |
| | | | Low-E Tint | PVC-003-04 W | 2.3 | 0.19 |
| | | Double glazing – argon filled | Clear | PVC-005-01 W | 2.6 | 0.50 |
| | | | Tinted | PVC-005-02 W | 2.5 | 0.25 |
| | | | Low-E Clear | PVC-005-03 W | 2.0 | 0.25 |
| | | | Low-E Tint | PVC-005-04 W | 2.0 | 0.18 |
| | Composite | Single glazing | Clear | CMP-001-01 I | 5.9 | 0.57 |

| UI inputs | | | | Values applied by software | | |
|---|---|---|---|---|---|---|
| **Operating Type** | **Frame material** | **Glazing type** | **Glazing Description** | **NatHERS Code** | **U Value** | **SHGC** |
| | | | Tinted | CMP-001-02 I | 6.2 | 0.41 |
| | | | Low-E Clear | CMP-001-03 I | 4.6 | 0.36 |
| | | | Low-E Tint | CMP-001-04 I | 4.6 | 0.36 |
| | | Double glazing – air filled | Clear | CMP-003-01 I | 3.9 | 0.51 |
| | | | Tinted | CMP-003-02 I | 3.9 | 0.32 |
| | | | Low-E Clear | CMP-003-03 I | 3.4 | 0.47 |
| | | | Low-E Tint | CMP-003-04 I | 3.4 | 0.32 |
| | | Double glazing – argon filled | Clear | CMP-005-01 I | 3.9 | 0.50 |
| | | | Tinted | CMP-005-02 I | 3.9 | 0.33 |
| | | | Low-E Clear | CMP-005-03 I | 3.2 | 0.46 |
| | | | Low-E Tint | CMP-005-04 I | 2.2 | 0.32 |
| | Thermally Broken Aluminium | Double glazing – air filled | Clear | ATB-003-01 B | 3.6 | 0.47 |
| | | | Tinted | ATB-003-02 B | 3.6 | 0.23 |
| | | | Low-E Clear | ATB-003-03 B | 3.1 | 0.39 |
| | | | Low-E Tint | ATB-003-04 B | 3.1 | 0.27 |
| | | Double glazing – argon filled | Clear | ATB-005-01 B | 3.5 | 0.47 |
| | | | Tinted | ATB-005-02 B | 3.4 | 0.32 |
| | | | Low-E Clear | ATB-005-03 B | 2.9 | 0.44 |
| | | | Low-E Tint | ATB-005-04 B | 3.0 | 0.27 |
| Group B<br><br>e.g.<br>Sliding<br>Fixed<br>Double Hung<br>Louvre | Aluminium | Single glazing | Clear | ALM-002-01 A | 6.7 | 0.70 |
| | | | Tinted | ALM-002-02 A | 6.6 | 0.49 |
| | | | Low-E High SG | ALM-002-03 A | 5.4 | 0.58 |
| | | | Low-E Low SG | ALM-002-04 A | 5.6 | 0.41 |
| | | Double glazing – air filled | Clear | ALM-004-01 A | 4.8 | 0.59 |
| | | | Tinted | ALM-004-02 A | 5.2 | 0.39 |
| | | | Low-E Clear | ALM-004-03 A | 4.3 | 0.53 |
| | | | Low-E Tint | ALM-004-04 A | 4.9 | 0.33 |
| | | Double glazing – argon filled | Clear | ALM-006-01 A | 4.5 | 0.61 |
| | | | Tinted | ALM-006-02 A | 5.1 | 0.36 |
| | | | Low-E Clear | ALM-006-03 A | 4.1 | 0.52 |
| | | | Low-E Tint | ALM-006-04 A | 4.8 | 0.34 |
| | Timber | Single glazing | Clear | TIM-002-01 W | 5.4 | 0.63 |
| | | | Tinted | TIM-002-02 W | 5.4 | 0.49 |
| | | | Low-E Clear | TIM-002-03 W | 4.3 | 0.50 |
| | | | Low-E Tint | TIM-002-04 W | 3.7 | 0.38 |
| | | Double glazing – air filled | Clear | TIM-004-01-W | 3.0 | 0.56 |
| | | | Tinted | TIM-004-02 W | 2.9 | 0.42 |
| | | | Low-E Clear | TIM-004-03 W | 2.3 | 0.32 |
| | | | Low-E Tint | TIM-004-04 W | 2.3 | 0.25 |
| | | Double glazing – argon filled | Clear | TIM-006-01 W | 2.6 | 0.53 |
| | | | Tinted | TIM-006-02 W | 2.5 | 0.28 |
| | | | Low-E Clear | TIM-006-03 W | 2.0 | 0.31 |
| | | | Low-E Tint | TIM-006-04 W | 2.0 | 0.23 |

| UI inputs | | | | Values applied by software | | |
|---|---|---|---|---|---|---|
| **Operating Type** | **Frame material** | **Glazing type** | **Glazing Description** | **NatHERS Code** | **U Value** | **SHGC** |
| | uPVC | Single glazing | Clear | PVC-002-01 W | 5.4 | 0.63 |
| | | | Tinted | PVC-002-02 W | 5.4 | 0.49 |
| | | | Low-E Clear | PVC-002-03 W | 4.3 | 0.50 |
| | | | Low-E Tint | PVC-002-04 W | 3.7 | 0.38 |
| | | Double glazing – air filled | Clear | PVC-004-01 W | 3.0 | 0.56 |
| | | | Tinted | PVC-004-02 W | 2.9 | 0.42 |
| | | | Low-E Clear | PVC-004-03 W | 2.3 | 0.32 |
| | | | Low-E Tint | PVC-004-04 W | 2.3 | 0.25 |
| | | Double glazing – argon filled | Clear | PVC-006-01 W | 2.6 | 0.53 |
| | | | Tinted | PVC-006-02 W | 2.5 | 0.28 |
| | | | Low-E Clear | PVC-006-03 W | 2.0 | 0.31 |
| | | | Low-E Tint | PVC-006-04 W | 2.0 | 0.23 |
| | Composite | Single glazing | Clear | CMP-002-01 I | 5.9 | 0.65 |
| | | | Tinted | CMP-002-02 I | 6.2 | 0.45 |
| | | | Low-E Clear | CMP-002-03 I | 3.7 | 0.61 |
| | | | Low-E Tint | CMP-002-04 I | 4.6 | 0.46 |
| | | Double glazing – air filled | Clear | CMP-004-01 I | 3.9 | 0.59 |
| | | | Tinted | CMP-004-02 I | 3.9 | 0.37 |
| | | | Low-E Clear | CMP-004-03 I | 3.4 | 0.53 |
| | | | Low-E Tint | CMP-004-04 I | 3.4 | 0.33 |
| | | Double glazing – argon filled | Clear | CMP-006-01 I | 3.9 | 0.63 |
| | | | Tinted | CMP-006-02 I | 3.9 | 0.40 |
| | | | Low-E Clear | CMP-006-03 I | 3.2 | 0.49 |
| | | | Low-E Tint | CMP-006-04 I | 2.2 | 0.39 |
| | Thermally Broken Aluminium | Double glazing – air filled | Clear | ATB-004-01 B | 3.6 | 0.54 |
| | | | Tinted | ATB-004-02 B | 3.6 | 0.30 |
| | | | Low-E Clear | ATB-004-03 B | 3.1 | 0.49 |
| | | | Low-E Tint | ATB-004-04 B | 3.1 | 0.27 |
| | | Double glazing – argon filled | Clear | ATB-006-01 B | 3.5 | 0.64 |
| | | | Tinted | ATB-006-02 B | 3.4 | 0.40 |
| | | | Low-E Clear | ATB-006-03 B | 2.9 | 0.51 |
| | | | Low-E Tint | ATB-006-04 B | 3.0 | 0.26 |

4.2 Each window entered also requires input fields for:

a. openability as per Table 12 + user specified precise input
b. internal coverings as per Table 16 and Table 17
c. external coverings as per Table 18

**Table 12 - Simplified window openability**

| UI inputs | Values applied by software |
|---|---|
| **Type** | **Openability** |
| Fixed | 0% |
| Openable | 45% |
| Highly openable | 90% |

## Table 13 – Simplified skylights (attic roof)

| UI inputs | | |
|---|---|---|
| **Type** | **Category** | **Options** |
| Skylight – standard | Azimuth | User input (may be derived from zone details) can be simplified inputs as per Simplified orientation details in Table 1 |
| | Pitch (slope) | User input (may be derived from zone details) can be simplified inputs as per Simplified slope details in Table 2 |
| | Construction | Single glazed clear (NatHERS Default skylight code TBC) |
| | | Single glazed opaque (NatHERS Default skylight code TBC) |
| | | Double glazed clear (NatHERS Default skylight code TBC) |
| | | Double glazed opaque (NatHERS Default skylight code TBC) |
| | | HP (high performance) TBC |
| | Outdoor shading | User input yes/no (default No) |
| | Openability | User input Fixed/Openable (default Fixed)<br>Openable - apply 45% openability<br>Fixed - apply 0% openability |
| | Area | Standard size - 0.5$m^2$ |
| | | Large size - 1.2$m^2$ |
| | | User input |
| | Shaft length | User input<br>If none apply default 1000mm |
| | Shaft reflectance | User input<br>If none apply default 0.75 |
| | Shaft insulation (R-value) | User input Yes/No<br>Yes – apply R2.5<br>No – apply R0 (default) |
| Skylight - tubular | Azimuth | User input (may be derived from zone details) can be simplified inputs as per Simplified orientation details in Table 1 |
| | Pitch (slope) | User input (may be derived from zone details) can be simplified inputs as per Simplified slope details in Table 2 |
| | Construction | Single glazed clear (NatHERS Default skylight code TBC) |
| | Outdoor shading | User input yes/no (default No) |
| | Area | Default 0.09m2 or as per site details |
| | | User input (m2) |
| | Shaft length | User input<br>If none apply default 1000mm |
| | Shaft reflectance | User input<br>If none apply default 0.9 |
| | Shaft insulation (R-value) | User input Yes/No<br>Yes – apply R2.5<br>No – apply R0 (default) |

### Table 14 – Simplified roof windows (flat/raked roof)

| UI input fields | | |
|---|---|---|
| **Type** | **Category** | **Options** |
| Roof window | Azimuth | User input (may be derived from zone details) can be simplified inputs as per Simplified orientation details in Table 1 |
| | Pitch (slope) | User input (may be derived from zone details) can be simplified inputs as per Simplified slope details in Table 2 |
| | Construction | Single glazed (NatHERS Default Roof window code TBC) |
| | | Double Glazed (NatHERS Default Roof window code TBC) |
| | | HP (high performance) (NatHERS Default Roof window code TBC) |
| | Outdoor shading | User input yes/no (default No) |
| | Indoor shading | User input yes/no (default No) |
| | Openability | User input Fixed/Openable (default Fixed)<br>Openable - apply 45% openability<br>Fixed - apply 0% openability |
| | Area | Standard size - 0.5m$^2$ |
| | | Large size - 1.2m$^2$ |
| | | User input |

### Table 15 – Simplified doors

| UI input fields | | Values applied by software | |
|---|---|---|---|
| **Type** | **Size options** | **Construction** | **Sizes** |
| Internal Door | Single or<br>Double | 5 mm timber<br>20 mm nominal air gap<br>5 mm timber | Single: 820 x 2040 mm<br>Double: 1640 x 2040 mm |
| External Door (not glazed) | Single or<br>Double | 50 mm timber | 820 x 2100 mm |
| Steel garage door uninsulated | Single or<br>Double | 1 mm steel | Single: 2400 x 2100 mm<br>Double: 4800 x 2100mm |
| Steel garage door insulated | Single or<br>Double | 1 mm steel<br>50mm EPS - R1.1 | Single: 2400 x 2100 mm<br>Double: 4800 x 2100mm |

# 5 Window coverings

5.1 When inputting internal window coverings into the software assessors must enter the type of window covering as per the selections in Table xx and may also enter the 4 x window covering characteristics: outside appearance, light transmittance, fit and insulation level (see Table 17) and the software derives the required values for Chenath i.e. solar transmittance $T_s$, solar absorptance $A_s$ and additional thermal resistance ΔR. If the 4 characteristics have not been entered by the assessor, default values will be applied based on window covering type only.

5.2 Default value: no covering

**Table 16 - Window covering type used to derive calculation values**

| UI input fields | Values applied by software | | | |
|---|---|---|---|---|
| **Window Covering Type** | **Default characteristics applied as per** Table 17 | **Solar transmittance ($T_s$)** | **Solar absorptance ($A_s$)** | **Additional thermal resistance (ΔR)** |
| holland blinds (roller) | dark, some light, medium, less insulating | 0.10 | 0.80 | 0.05 |
| venetian blinds | dark, little to no light, loose, less insulating | 0.00 | 0.85 | 0.05 |
| roman blinds | dark, some light, medium, less insulating | 0.10 | 0.80 | 0.05 |
| vertical blinds | dark, little to no light, loose, less insulating | 0.00 | 0.85 | 0.05 |
| honeycomb blinds | dark, some light, close fitting, more insulating | 0.10 | 0.80 | 0.15 |
| plantation shutters | dark, little to no light, medium, more insulating | 0.00 | 0.85 | 0.10 |
| open weave curtains | dark, a lot of light, loose, less insulating | 0.35 | 0.40 | 0.05 |
| close weave curtains | dark, some light, loose, less insulating | 0.10 | 0.80 | 0.05 |
| heavy drapes | Dark, little to no light, loose, more insulating | 0.00 | 0.85 | 0.05 |

**Table 17 – Window covering characteristics used to derive calculation values**

| UI input fields | | | | Values applied by software | | |
|---|---|---|---|---|---|---|
| **Outside appearance (colour)** | **Light transmittance** | **Window covering fit** | **Insulative value** | **Solar transmittance ($T_s$)** | **Solar absorptance ($A_s$)** | **Additional thermal resistance (ΔR)** |
| No covering | - | - | - | 1.0 | 0.0 | 0.0 |
| Bright metallic | Little to no light | Loose | More insulating[5] | 0.00 | 0.30 | 0.05 |
| | | Medium | More insulating | 0.00 | 0.30 | 0.10 |
| | | Close fitting | More insulating | 0.00 | 0.30 | 0.15 |

[5] If the outside appearance is Bright metallic this can only be 'more insulating' due to it's low emittance value.

| UI input fields | | | | Values applied by software | | |
|---|---|---|---|---|---|---|
| **Outside appearance (colour)** | **Light transmittance** | **Window covering fit** | **Insulative value** | **Solar transmittance ($T_s$)** | **Solar absorptance ($A_s$)** | **Additional thermal resistance (ΔR)** |
| | | Fully enclosed | More insulating | 0.00 | 0.30 | 0.35 |
| | Some light | Loose | More insulating | 0.06 | 0.24 | 0.05 |
| | | Medium | More insulating | 0.06 | 0.24 | 0.10 |
| | | Close fitting | More insulating | 0.06 | 0.24 | 0.15 |
| | | Fully enclosed | More insulating | 0.06 | 0.24 | 0.35 |
| | A lot of light | Loose | More insulating | 0.06 | 0.24 | 0.05 |
| | | Medium | More insulating | 0.06 | 0.24 | 0.10 |
| | | Close fitting | More insulating | 0.06 | 0.24 | 0.15 |
| | | Fully enclosed | More insulating | 0.06 | 0.24 | 0.35 |
| Light colour | Little to no light | Loose | Less insulating | 0.00 | 0.25 | 0.05 |
| | | | More insulating | 0.00 | 0.25 | 0.05 |
| | | Medium | Less insulating | 0.00 | 0.25 | 0.05 |
| | | | More insulating | 0.00 | 0.25 | 0.10 |
| | | Close fitting | Less insulating | 0.00 | 0.25 | 0.10 |
| | | | More insulating | 0.00 | 0.25 | 0.15 |
| | | Fully enclosed | Less insulating | 0.00 | 0.25 | 0.25 |
| | | | More insulating | 0.00 | 0.25 | 0.35 |
| | Some light | Loose | Less insulating | 0.25 | 0.10 | 0.05 |
| | | | More insulating | 0.25 | 0.10 | 0.05 |
| | | Medium | Less insulating | 0.25 | 0.10 | 0.05 |
| | | | More insulating | 0.25 | 0.10 | 0.10 |
| | | Close fitting | Less insulating | 0.25 | 0.10 | 0.10 |
| | | | More insulating | 0.25 | 0.10 | 0.15 |
| | | Fully enclosed | Less insulating | 0.25 | 0.10 | 0.25 |
| | | | More insulating | 0.25 | 0.10 | 0.35 |
| | A lot of light | Loose | Less insulating | 0.55 | 0.05 | 0.05 |
| | | | More insulating | 0.55 | 0.05 | 0.05 |
| | | Medium | Less insulating | 0.55 | 0.05 | 0.05 |
| | | | More insulating | 0.55 | 0.05 | 0.10 |
| | | Close fitting | Less insulating | 0.55 | 0.05 | 0.10 |
| | | | More insulating | 0.55 | 0.05 | 0.15 |
| | | Fully enclosed | Less insulating | 0.55 | 0.05 | 0.25 |
| | | | More insulating | 0.55 | 0.05 | 0.35 |
| Medium colour | Little to no light | Loose | Less insulating | 0.00 | 0.50 | 0.05 |
| | | | More insulating | 0.00 | 0.50 | 0.05 |
| | | Medium | Less insulating | 0.00 | 0.50 | 0.05 |
| | | | More insulating | 0.00 | 0.50 | 0.10 |
| | | Close fitting | Less insulating | 0.00 | 0.50 | 0.10 |
| | | | More insulating | 0.00 | 0.50 | 0.15 |

| UI input fields | | | | Values applied by software | | |
|---|---|---|---|---|---|---|
| **Outside appearance (colour)** | **Light transmittance** | **Window covering fit** | **Insulative value** | **Solar transmittance ($T_s$)** | **Solar absorptance ($A_s$)** | **Additional thermal resistance (ΔR)** |
| | | Fully enclosed | Less insulating | 0.00 | 0.50 | 0.25 |
| | | | More insulating | 0.00 | 0.50 | 0.35 |
| | Some light | Loose | Less insulating | 0.20 | 0.30 | 0.05 |
| | | | More insulating | 0.20 | 0.30 | 0.05 |
| | | Medium | Less insulating | 0.20 | 0.30 | 0.05 |
| | | | More insulating | 0.20 | 0.30 | 0.10 |
| | | Close fitting | Less insulating | 0.20 | 0.30 | 0.10 |
| | | | More insulating | 0.20 | 0.30 | 0.15 |
| | | Fully enclosed | Less insulating | 0.20 | 0.30 | 0.25 |
| | | | More insulating | 0.20 | 0.30 | 0.35 |
| | A lot of light | Loose | Less insulating | 0.45 | 0.20 | 0.05 |
| | | | More insulating | 0.45 | 0.20 | 0.05 |
| | | Medium | Less insulating | 0.45 | 0.20 | 0.05 |
| | | | More insulating | 0.45 | 0.20 | 0.10 |
| | | Close fitting | Less insulating | 0.45 | 0.20 | 0.10 |
| | | | More insulating | 0.45 | 0.20 | 0.15 |
| | | Fully enclosed | Less insulating | 0.45 | 0.20 | 0.25 |
| | | | More insulating | 0.45 | 0.20 | 0.35 |
| Dark colour | Little to no light | Loose | Less insulating | 0.00 | 0.85 | 0.05 |
| | | | More insulating | 0.00 | 0.85 | 0.05 |
| | | Medium | Less insulating | 0.00 | 0.85 | 0.05 |
| | | | More insulating | 0.00 | 0.85 | 0.10 |
| | | Close fitting | Less insulating | 0.00 | 0.85 | 0.10 |
| | | | More insulating | 0.00 | 0.85 | 0.15 |
| | | Fully enclosed | Less insulating | 0.00 | 0.85 | 0.25 |
| | | | More insulating | 0.00 | 0.85 | 0.35 |
| | Some light | Loose | Less insulating | 0.10 | 0.80 | 0.05 |
| | | | More insulating | 0.10 | 0.80 | 0.05 |
| | | Medium | Less insulating | 0.10 | 0.80 | 0.05 |
| | | | More insulating | 0.10 | 0.80 | 0.10 |
| | | Close fitting | Less insulating | 0.10 | 0.80 | 0.10 |
| | | | More insulating | 0.10 | 0.80 | 0.15 |
| | | Fully enclosed | Less insulating | 0.10 | 0.80 | 0.25 |
| | | | More insulating | 0.10 | 0.80 | 0.35 |
| | A lot of light | Loose | Less insulating | 0.35 | 0.40 | 0.05 |
| | | | More insulating | 0.35 | 0.40 | 0.05 |
| | | Medium | Less insulating | 0.35 | 0.40 | 0.05 |
| | | | More insulating | 0.35 | 0.40 | 0.10 |
| | | Close fitting | Less insulating | 0.35 | 0.40 | 0.10 |
| | | | More insulating | 0.35 | 0.40 | 0.15 |
| | | Fully enclosed | Less insulating | 0.35 | 0.40 | 0.25 |
| | | | More insulating | 0.35 | 0.40 | 0.35 |

**Table 18 – Simplified external window coverings**

| UI input fields | Values applied by software |
|---|---|
| **Type** | **Shade factor** |
| None (default) | 0% |
| External blind | 70% |

# 6 Colours

**Table 19 – Simplified/default colours**

| UI input fields | | Values applied by software |
|---|---|---|
| **Construction type** | **Colour** | **Solar absorptance value** |
| Roof | Light | 0.3 |
| | Medium | 0.5 |
| | Dark | 0.85 |
| External walls | Light | 0.3 |
| | Medium | 0.5 |
| | Dark | 0.85 |
| Internal walls | Medium (locked setting) | 0.5 |
| Floors | Medium (locked setting) | 0.5 |
| Window frame colours | Medium (locked setting) | 0.5 |
| Doors | Medium (locked setting) | 0.5 |

# 7 Airtightness

7.1 There are two methods for airtightness values to be entered into the software:

7.1.1 Method 1 - the user enters a blower door test result expressed in terms of the air permeability of the building envelope in $m^3/hr.m^2$ i.e. the cubic meters per hour of air leakage for every square metre of building envelope (floor, ceiling, and walls).

7.1.2 Method 2 – the user enters air leakage sources based on visual assessment – see Table 20 for required inputs.

7.2 Where a blower door test result is used, this overrides all visual assessment inputs. The software must provide fields for both options.

**Table 20 - Standard/default air leakage sources (visual assessment)**

| UI input fields | | | Values applied by software | | |
|---|---|---|---|---|---|
| **Type** | **Description 1** | **Count per zone** | **Stack infiltration factor** | **Wind infiltration factor** | **Calculation (per zone)** |
| Background air leakage (no user input – hidden value) | | | 0.011554 | 0.003851 | multiply by zone area |
| Recessed downlights | Sealed | User specified | 0.0 | 0.0 | multiply by number of |
| | Minimal | User specified | 0.151 | 0.0 | multiply by number of |
| | Moderate | User specified | 0.555 | 0.0 | multiply by number of |
| | Large | User specified | 1.00909 | 0.0 | multiply by number of |
| Exhaust fans/ Rangehoods (assume vented to attic) | Sealed (default for rangehoods) | User specified | 1.12 | 0.0 | multiply by number of |
| | Unsealed (default for exhaust fans) | User specified | 5.6 | 0.0 | multiply by number of |
| Wall vents | - | User specified | 1.39 | 1.193555 | multiply by number of |
| Ceiling vent | - | User specified | 1.39 | 0.0 | multiply by number of |
| Chimney | no damper (default) | User specified | 16.7 | 72.41294 | multiply by number of |
| | with damper | User specified | 1.002 | 4.34478 | multiply by number of |

| UI input fields | | | Values applied by software | | |
|---|---|---|---|---|---|
| **Type** | **Description 1** | **Count per zone** | **Stack infiltration factor** | **Wind infiltration factor** | **Calculation (per zone)** |
| Evaporative cooler duct outlets | - | User specified | 14.887 | 12.783 | Zone value calculated using total no. of outlets and floor area of entire dwelling |
| External Doors | Sealed | - | 0.25434 | 0.08478 | multiply by number of, add to Y, multiplied by 1.5 |
| | Unsealed (default) | - | 2.79778 | 0.93259 | multiply by number of, add to X, multiplied by 1.5 |
| | Y (for calc purposes only) | - | 0.011556 | 0.003852 | - |
| | X (for calc purposes only) | - | 0.027733 | 0.009245 | - |
| Windows | Sealed | - | 0.032354 | 0.010785 | 1.5 x window area/ total window area x zone floor area |
| | Unsealed (default) | - | 0.157153 | 0.052384 | 1.5 x window area/ total window area x zone floor area |
| Floorboard gaps | No (default) | - | 0.0 | 0.0 | - |
| | Yes | - | 17.11 | 0.0 | - |
| Skirting board gaps | No (default) | | 0.0 | 0.0 | - |
| | Yes | - | 17.11 | 0.0 | - |
| Gaps and cracks in general construction | No (default) | | 0.0 | 0.0 | - |
| | Yes | | 1.6654 | 0.0 | - |
| Holes/ fixed open louvre windows | Area of opening (cm) | | Added as permanent opening | - | - |

7.3 Note that the default wall vent size to apply is 245mm (W) x 145mm (H)

# 8 Ceiling Fans

**Table 21 - Simplified ceiling fans**

| UI input fields | Values applied by software |
|---|---|
| **Size** | **Size (mm)** |
| 900 mm | 900 |
| 1200 mm (default) | 1200 |
| 1400 mm | 1400 |

# 9 Shading

9.1 Software should allow both exact and simplified shading inputs.

9.2 Simplified input values and the values applied by the software are shown for horizontal shading and vertical shading in Table 22 and Table 23 respectively.

**Table 22 – Simplified horizontal shading inputs**

| UI input fields | | Values applied by software |
|---|---|---|
| **Shading feature input** | **Range** | **Measurement (mm)** |
| Projection of eave or overhang | 0 - < 300 mm | 150 |
| | 300 - < 600 mm | 450 |
| | 600 - < 900 mm | 750 |
| | 900 - < 1200 mm | 1050 |
| | 1200 - < 1500 mm | 1350 |
| | 1500 - < 1800 mm | 1650 |
| | 1800 - < 2100 mm | 1950 |
| | ≥ 2100 mm | 2100 |
| Vertical offset | < 500mm | 0 |
| | 500 - < 800 mm | 650 |
| | 800 - < 1100 mm | 950 |
| | 1100 - < 1400 mm | 1250 |
| | ≥ 1400 mm | 1550 |
| Length of the overhang (no input required) | | = width of the wall or window + the depth of the eave or overhang multiplied by 2 |
| Horizontal offset (no input required) | | = same as the depth of the eave or overhang |

**Table 23 – Simplified vertical shading inputs**

| UI input fields | | Values applied by software |
|---|---|---|
| **Shading feature input** | **Description/ Category** | **Measurement (m)** |
| Height | Fence | 1.8 m |
| | Single storey (2-4m) | 3.0 m |
| | 2 storey (5-7m) | 6.0 m |
| | 3 storey (8-10m) | 9.0 m |
| | 4-6 storeys (11-20m) | 15 m |
| | 7+ storeys (20m+) | 25 m |
| Distance | < 1 m | 0.75 m |
| | 1 – 2.5 m | 1.75 m |
| | 2.5 – 5 m | 3.75 m |
| | 5 – 10 m | 7.5 m |
| | 10m + | 15 m |
| Horizontal offset | Shade feature is predominantly to the right | = Shade feature width minus wall/window width |
| | Shade feature is approximately centred | = (Shade feature width minus wall/window width) x 1/2 |
| | Shade feature is predominantly to the left | = 0 |
| Width of the shade feature (no user input required – use Horizontal offset category selection and apply appropriate value) | Shade feature is predominantly to the right | Wall/window width + 5m |
| | Shade feature is approximately centred | Wall/window width + 10m |
| | Shade feature is predominantly to the left | Wall/window width + 5m |

# 10 Insulation

10.1 There are two methods for insulation values to be entered for walls, floors, ceiling and roofs.

10.1.1 User specified value through either direct R-value input or derived from input of insulation type and thickness to allow calculation of R-value in the software. See Table 24 for values applied by the software. Note that a reduction factor will also be applied to ceiling insulation values – see Table 26.

10.1.2 Default value through input of building class, location (state and NCC climate zone) and year of construction which allows calculation of R-value in the software. See Table 27 and Table 29 for values applied by the software.

10.2 For dwellings in Class 1 or Class 2 multi-dwelling buildings, such as terraces, duplexes or apartments, where a wall, floor or ceiling has a neighbouring dwelling, no insulation is assumed.

## Table 24 – User specified insulation R-values

| UI input fields | | | Values applied by software |
|---|---|---|---|
| **Category** | **Type** | **Thickness/depth (mm)** | **R-Value** |
| Batt | Glass fibre (Default) | 50 (default) | 1.14 |
| | | 100 | 2.27 |
| | | 150 | 3.41 |
| | | 200 | 4.55 |
| | | 250 | 5.68 |
| | | 300 | 6.82 |
| | Polyester | 50 (default) | 1.11 |
| | | 100 | 2.22 |
| | | 150 | 3.33 |
| | | 200 | 4.44 |
| | | 250 | 5.56 |
| | | 300 | 6.67 |
| | Rockwool | 50 (default) | 1.52 |
| | | 100 | 3.03 |
| | | 150 | 4.55 |
| | | 200 | 6.06 |
| | | 250 | 7.58 |
| | | 300 | 9.09 |
| | Wool/polyester | 50 (default) | 1.11 |
| | | 100 | 2.22 |
| | | 150 | 3.33 |
| | | 200 | 4.44 |
| | | 250 | 5.56 |
| | | 300 | 6.67 |
| Loose fill | Cellulose fibre | 50 (default) | 1.25 |
| | | 100 | 2.5 |
| | | 150 | 3.75 |
| | | 200 | 5.0 |
| | | 300 | 7.5 |
| | | 400 | 10 |
| | | 500 | 12.5 |
| | Rockwool | 50 (default) | 1.25 |
| | | 100 | 2.5 |
| | | 150 | 3.75 |
| | | 200 | 5.0 |
| | | 300 | 7.5 |
| | | 400 | 10.0 |
| | | 500 | 12.5 |
| | Wool | 100 (default) | 1.25 |
| | | 150 | 1.88 |
| | | 200 | 2.5 |
| | | 300 | 3.75 |

| UI input fields | | | Values applied by software |
|---|---|---|---|
| **Category** | **Type** | **Thickness/depth (mm)** | **R-Value** |
| | | 400 | 5.0 |
| | | 500 | 6.25 |
| Board | Expanded Polystyrene (EPS) (Default) | 20 (default) | 0.51 |
| | | 30 | 0.77 |
| | | 40 | 1.03 |
| | | 50 | 1.28 |
| | | 75 | 1.92 |
| | | 100 | 2.56 |
| | Extruded Polystyrene (XPS) | 20 (default) | 0.71 |
| | | 30 | 1.07 |
| | | 40 | 1.43 |
| | | 50 | 1.79 |
| | | 75 | 2.68 |
| | | 100 | 3.57 |
| | Polyisocyanurate (PIR) | 20 (default) | 0.91 |
| | | 30 | 1.36 |
| | | 40 | 1.82 |
| | | 50 | 2.27 |
| | | 75 | 3.41 |
| | | 100 | 4.56 |
| Sarking (reflective) | | | Reflective roof space |

### Table 25 - Ceiling penetration insulation clearances

| UI input field | Values applied by the software |
|---|---|
| Unsealed recessed downlight | 90mm diameter + 50mm insulation clearance |
| Ceiling exhaust fan/rangehood/fan light heater | 250mm diameter + 50mm insulation clearance |
| Ceiling vent/ceiling rose | 250mm diameter + 50mm insulation clearance |
| Chimney/fireplace | 500mm x 350mm + 50mm insulation clearance |

### Table 26 - Ceiling insulation reduction factors

| UI input fields | | Values applied by software |
|---|---|---|
| **R-value** (may be derived from insulation input values) | **Category (% insulation missing)** | **Reduction factor** |
| ≤ R3 | No gaps - 0% | 0 |
| | Minor - 0% to < 2% | 20% |
| | Moderate - 2% to < 4% (Default) | 33% |
| | Significant - 4% to < 8% | 51% |
| | Very significant - ≥ 8% | 62% |
| R3 to ≤ R5 | No gaps - 0% | 0 |
| | Minor - 0% to < 2% | 25% |
| | Moderate - 2% to < 4% (Default) | 40% |
| | Significant - 4% to < 8% | 58% |
| | Very significant - ≥ 8% | 69% |
| >R5 | No gaps - 0% | 0 |
| | Minor - 0% to < 2% | 32% |
| | Moderate - 2% to < 4% (Default) | 49% |
| | Significant - 4% to < 8% | 67% |
| | Very significant - ≥ 8% | 76% |

### Table 27 – Class 1 default insulation R-values

| UI input fields | | | Values applied by software | | |
|---|---|---|---|---|---|
| **State** | **NCC climate zones** | **Year of construction** | **Roof / Ceiling** | **External wall** | **Suspended floor[6]** |
| ACT | 7 | Pre 1993 | 1.0 | None | None |
| | | 1993 - 2005 | 3.0 | 1.5 | 1.0 |
| | | 2006 - 2009 | 3.5 | 2.0 | 1.5 |
| | | 2010 – 2019 | 4.0 | 2.5 | 2.5 |
| | | 2020-present | 4.5 | 2.5 | 2.5 |
| NSW | 2 | Pre 2005 | None | None | None |
| | | 2005 | 2.0 | 1.0 | 1.0 |

[6] See Table 28 for concrete slab/waffle pod on ground floors

| UI input fields | | | Values applied by software | | |
|---|---|---|---|---|---|
| **State** | **NCC climate zones** | **Year of construction** | **Roof / Ceiling** | **External wall** | **Suspended floor[6]** |
| | | 2006-2010 | 2.5 | 1.5 | 1.0 |
| | | 2011-present | 4.0 | 2.5 | 1.0 |
| NSW | 4 | Pre 2005 | None | None | None |
| | | 2005 | 2.5 | 1.5 | 1.0 |
| | | 2006-2010 | 3.0 | 2.0 | 1.0 |
| | | 2011-present | 4.0 | 2.5 | 2.0 |
| NSW | 5 | Pre 2005 | 1.0 | None | None |
| | | 2005 | 2.5 | 1.0 | 1.0 |
| | | 2006-2010 | 3.0 | 1.5 | 1.0 |
| | | 2011-present | 4.0 | 2.5 | 1.0 |
| NSW | 6 | Pre 2005 | 1.0 | None | None |
| | | 2005 | 3.0 | 1.5 | 1.0 |
| | | 2006-2010 | 3.0 | 2.0 | 1.0 |
| | | 2011-2019 | 4.0 | 2.5 | 2.0 |
| | | 2020 present | 4.5 | 2.5 | 2.0 |
| NSW | 7 | Pre 2005 | 1.0 | None | None |
| | | 2005 | 3.0 | 1.5 | 1.0 |
| | | 2006-2010 | 3.5 | 2.0 | 1.5 |
| | | 2011-2019 | 4.0 | 2.5 | 2.0 |
| | | 2020-present | 4.5 | 2.5 | 2.0 |
| NSW | 8 | Pre 2005 | 1.0 | None | None |
| | | 2005 | 3.5 | 2.5 | 2.0 |
| | | 2006-2010 | 4.0 | 3.0 | 2.0 |
| | | 2011-present | 6.0 | 3.5 | 3.0 |
| QLD | 1 | Pre 2003 | None | None | None |
| | | 2003-2008 | 2.0 | 1.0 | 1.0 |
| | | 2009 | 2.5 | 1.5 | 1.0 |
| | | 2010-present | 3.0 | 2.5 | 1.5 |
| QLD | 2 | Pre 2003 | None | None | None |
| | | 2003-2008 | 2.0 | 1.0 | 1.0 |
| | | 2009 | 2.5 | 1.5 | 1.0 |
| | | 2010-present | 4.0 | 2.5 | 1.0 |
| QLD | 3 | Pre 2003 | None | None | None |
| | | 2003-2008 | 2.0 | 1.0 | 1.0 |
| | | 2009 | 2.5 | 1.5 | 1.0 |
| | | 2010-present | 4.0 | 2.5 | 1.5 |
| QLD | 5 | Pre 2003 | 1.0 | None | None |
| | | 2003-2008 | 2.5 | 1.0 | 1.0 |
| | | 2009 | 3.0 | 1.5 | 1.0 |
| | | 2010-present | 4.0 | 2.5 | 1.0 |
| SA | 4 | Pre 2003 | None | None | None |
| | | 2003-2005 | 2.5 | 1.5 | 1.0 |

| UI input fields | | | Values applied by software | | |
|---|---|---|---|---|---|
| **State** | **NCC climate zones** | **Year of construction** | **Roof / Ceiling** | **External wall** | **Suspended floor[6]** |
| | | 2006-2009 | 3.0 | 1.5 | 1.0 |
| | | 2010-present | 4.0 | 2.5 | 2.0 |
| SA | 5 | Pre 2003 | 1.0 | None | None |
| | | 2003-2005 | 2.5 | 1.0 | 1.0 |
| | | 2006-2009 | 3.0 | 1.5 | 1.0 |
| | | 2010-present | 4.0 | 2.5 | 1.0 |
| SA | 6 | Pre 2003 | 1.0 | None | None |
| | | 2003-2005 | 2.5 | 1.5 | 1.0 |
| | | 2006-2009 | 3.0 | 1.5 | 1.0 |
| | | 2010-2019 | 4.0 | 2.5 | 2.0 |
| | | 2020-present | 4.5 | 2.5 | 2.0 |
| TAS | 7 | Pre 2003 | 1.0 | None | None |
| | | 2003-2009 | 3.5 | 1.5 | 1.0 |
| | | 2010-2013 | 4.0 | 2.0 | 1.5 |
| | | 2014-2019 | 4.0 | 2.5 | 2.5 |
| | | 2020-present | 4.5 | 2.5 | 2.5 |
| TAS | 8 | Pre 2003 | 1.0 | None | None |
| | | 2003-2009 | 3.5 | 2.5 | 2.0 |
| | | 2010-2013 | 4.0 | 3.0 | 2.0 |
| | | 2014-present | 6.0 | 3.5 | 3.0 |
| VIC | 4 | Pre 1991 | None | None | None |
| | | 1991- 2005 | 2.0 | 1.0 | None |
| | | 2006-2010 | 3.0 | 1.5 | 1.0 |
| | | 2011-present | 4.0 | 2.5 | 2.0 |
| VIC | 6 | Pre 1991 | 1.0 | None | None |
| | | 1991- 2005 | 2.0 | 1.0 | None |
| | | 2006-2010 | 3.0 | 1.5 | 1.0 |
| | | 2011-2019 | 4.0 | 2.5 | 2.0 |
| | | 2020-present | 4.5 | 2.5 | 2.0 |
| VIC | 7 | Pre 1991 | 1.0 | None | None |
| | | 1991-2005 | 2.0 | 1.0 | 1.0 |
| | | 2006-2010 | 4.0 | 2.0 | 1.5 |
| | | 2011- 2019 | 4.0 | 2.5 | 2.5 |
| | | 2020–present | 4.5 | 2.5 | 2.5 |
| VIC | 8 | Pre 1991 | 1.0 | None | None |
| | | 1991- 2005 | 2.0 | 1.0 | 1.0 |
| | | 2006-2010 | 3.5 | 2.5 | 2.0 |
| | | 2011- 2019 | 4.0 | 3.0 | 2.0 |
| | | 2020-present | 6.0 | 3.5 | 3.0 |
| WA | 1 | Pre 2003 | None | None | None |
| | | 2003-2005 | 2.0 | 1.0 | 1.0 |
| | | 2006-2010 | 2.0 | 1.5 | 1.0 |
| | | 2011-present | 3.0 | 2.5 | 1.5 |

| UI input fields | | | Values applied by software | | |
|---|---|---|---|---|---|
| State | NCC climate zones | Year of construction | Roof / Ceiling | External wall | Suspended floor[6] |
| WA | 3 | Pre 2003 | None | None | None |
| | | 2003-2005 | 2.0 | 1.0 | 1.0 |
| | | 2006-2010 | 2.5 | 1.5 | 1.0 |
| | | 2011-present | 4.0 | 2.5 | 1.5 |
| WA | 4 | Pre 2003 | None | None | None |
| | | 2003-2005 | 2.5 | 1.5 | 1.0 |
| | | 2006-2010 | 3.0 | 2.0 | 1.0 |
| | | 2011-present | 4.0 | 2.5 | 2.0 |
| WA | 5 | Pre 2003 | 1.0 | None | None |
| | | 2003-2005 | 2.5 | 1.0 | 1.0 |
| | | 2006-2010 | 3.0 | 1.5 | 1.0 |
| | | 2011-present | 4.0 | 2.5 | 1.0 |
| WA | 6 | Pre 2003 | 1.0 | None | None |
| | | 2003-2005 | 2.5 | 1.5 | 1.0 |
| | | 2006-2010 | 3.0 | 2.0 | 1.0 |
| | | 2011-2019 | 4.0 | 2.5 | 2.0 |
| | | 2020-present | 4.5 | 2.5 | 2.0 |
| NT | 1 | Pre 2003 | None | None | None |
| | | 2003-2005 | 2.0 | 1.0 | 1.0 |
| | | 2006-2009 | 2.5 | 1.5 | 1.0 |
| | | 2010-present | 2.5 | 1.5 | 1.0 |
| NT | 3 | Pre 2003 | None | None | None |
| | | 2003-2005 | 2.0 | 1.0 | 1.0 |
| | | 2006-2009 | 2.0 | 1.0 | 1.0 |
| | | 2010-present | 2.5 | 1.5 | 1.0 |
| Tan J (2022), Minimum insulation values for building fabric of class 1 buildings, CSIRO, Australia. https://publications.csiro.au/publications/publication/PIcsiro:EP2022-3414 | | | | | |

**Table 28 - Class 1 default insulation R-values - concrete slab/waffle pod**

| UI input fields | Values applied by software | | |
|---|---|---|---|
| Type | Insulation | Slab thickness | R-value |
| Waffle pod | 175 mm waffle (Default) | 85 mm (default) | 0.56 |
| Concrete slab on ground | None (Default) | 100 mm (default) | 0.0 |

## Table 29 – Class 2 default insulation R-values

| UI input fields | | | Values applied by software[7] | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| State | NCC climate zone | Year of construction | Roof / Ceiling | External Wall | | | | Floor | | | | |
| | | | | Framed | Masonry | Masonry w/ furring channel | Concrete w/ furring channel | CSOG | Susp. over unenclosed[8] subfloor with carpet | Susp. over unenclosed subfloor without carpet | Susp. over enclosed[9] subfloor with carpet | Susp. over enclosed subfloor without carpet |
| ACT | 7 | Pre 1998 | 1.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 1998 - 2005 | 2.0 | 1.5 | 1.5 | 1.5 | 1.5 | 0 | 0 | 0 | 0 | 0 |
| | | 2006 - 2010 | 3.5 | 1.5 | 1.0 | 1.0 | 1.0 | 0 | 0.5 | 1.0 | 0 | 0 |
| | | 2011 – 2023 | 3.5 | 2.5 | 2.5 | 1.0 | 1.0 | 0 | 1.0 | 1.5 | 1.0 | 1.5 |
| | | 2024-present | 2.5 | 2.0 | 2.0 | 2.0 | 2.0 | 0.64 | 2.0 | 2.0 | 2.0 | 2.0 |
| | 8 | Pre 1998 | 1.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 1998 - 2005 | 2.0 | 1.5 | 1.5 | 1.5 | 1.5 | 0 | 0 | 0 | 0 | 0 |
| | | 2006 - 2010 | 4.0 | 2.5 | 1.0 | 1.0 | 1.0 | 0 | 1.5 | 2.0 | 0 | 0 |
| | | 2011 – 2023 | 4.5 | 3.5 | 3.5 | 3.5 | 3.5 | 1.0 | 1.5 | 2.0 | 1.0 | 1.5 |
| | | 2024-present | 2.5 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| NSW | 2 | Pre 2005 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 2005-2010 | 2.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 2011-2023 | 3.0 | 1.5 | 1.0 | 1.0 | 1.0 | 0 | 1.0 | 1.5 | 0.5 | 1.0 |

[7] Only applied where the adjacency is not neighbour
[8] Unenclosed subfloor includes the NatHERS floor adjacency categories: Subfloor open, Subfloor very open and Outdoor Air.
[9] Enclosed subfloor refers to the NatHERS floor adjacency category: Subfloor enclosed

| UI input fields | | | Values applied by software[7] | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| State | NCC climate zone | Year of construction | Roof / Ceiling | External Wall | | | | Floor | | | | |
| | | | | Framed | Masonry | Masonry w/ furring channel | Concrete w/ furring channel | CSOG | Susp. over unenclosed[8] subfloor with carpet | Susp. over unenclosed subfloor without carpet | Susp. over enclosed[9] subfloor with carpet | Susp. over enclosed subfloor without carpet |
| | | 2024-present | 4.0 | 1.5 | 1.5 | 1.5 | 1.5 | 0 | 2.0 | 2.0 | 0.5 | 0.5 |
| NSW | 4 | Pre 2005 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 2005-2010 | 2.5 | 1.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 2011-2023 | 3.0 | 1.5 | 1.0 | 1.0 | 1.0 | 0 | 1.0 | 1.5 | 0 | 0 |
| | | 2024-present | 2.5 | 2.0 | 2.0 | 2.0 | 2.0 | 0 | 1.5 | 1.5 | 1.0 | 1.0 |
| NSW | 5 | Pre 2005 | 1.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 2005-2010 | 2.5 | 1.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 2011-2023 | 3.0 | 1.5 | 1.0 | 1.0 | 1.0 | 0 | 1.0 | 1.5 | 0 | 0 |
| | | 2024-present | 4.0 | 1.5 | 1.5 | 1.5 | 1.5 | 0 | 2.0 | 2.0 | 1.0 | 1.0 |
| NSW | 6 | Pre 2005 | 1.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 2005-2010 | 3.0 | 1.5 | 1.0 | 1.0 | 1.0 | 0 | 0.5 | 1.0 | 0 | 0 |
| | | 2011-2023 | 3.0 | 1.5 | 1.0 | 1.0 | 1.0 | 0 | 1.0 | 1.5 | 0.5 | 0.5 |
| | | 2024-present | 3.5 | 1.5 | 1.5 | 1.5 | 1.5 | 0.64 | 2.0 | 2.0 | 1.5 | 1.5 |
| NSW | 7 | Pre 2005 | 1.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 2005-2010 | 3.5 | 1.5 | 1.0 | 1.0 | 1.0 | 0 | 0.5 | 1.0 | 0 | 0 |
| | | 2011-2023 | 3.5 | 2.5 | 2.5 | 1.0 | 1.0 | 0 | 1.0 | 1.5 | 1.0 | 1.5 |
| | | 2024-present | 2.5 | 2.0 | 2.0 | 2.0 | 2.0 | 0.64 | 2.0 | 2.0 | 2.0 | 2.0 |
| NSW | 8 | Pre 2005 | 1.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 2005-2010 | 4.0 | 2.5 | 1.0 | 1.0 | 1.0 | 0 | 1.5 | 2.0 | 0 | 0 |

| UI input fields | | | Values applied by software[7] | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| State | NCC climate zone | Year of construction | Roof / Ceiling | External Wall | | | | Floor | | | | |
| | | | | Framed | Masonry | Masonry w/ furring channel | Concrete w/ furring channel | CSOG | Susp. over unenclosed[8] subfloor with carpet | Susp. over unenclosed subfloor without carpet | Susp. over enclosed[9] subfloor with carpet | Susp. over enclosed subfloor without carpet |
| | | 2011-2023 | 4.5 | 3.5 | 3.5 | 3.5 | 3.5 | 1.0 | 1.5 | 2.0 | 1.0 | 1.5 |
| | | 2024-present | 2.5 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| QLD | 1 | Pre 2006 | 1.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 2006-2024 | 2.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 2025 onward | 3.0 | 1.5 | 1.5 | 1.5 | 1.5 | 0 | 0 | 0 | 0 | 0 |
| QLD | 2 | Pre 2006 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 2006-2024 | 2.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 2025 onward | 4.0 | 1.5 | 1.5 | 1.5 | 1.5 | 0 | 2.0 | 2.0 | 0.5 | 0.5 |
| QLD | 3 | Pre 2006 | 1.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 2006-2024 | 2.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 2025 onward | 4.5 | 1.5 | 1.5 | 1.5 | 1.5 | 0 | 1.5 | 1.5 | 0 | 0 |
| QLD | 5 | Pre 2006 | 1.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 2006-2024 | 2.5 | 1.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 2025 onward | 4.0 | 1.5 | 1.5 | 1.5 | 1.5 | 0 | 2.0 | 2.0 | 1.0 | 1.0 |
| SA | 4 | Pre 2006 | 1.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 2006-2010 | 2.5 | 1.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 2011-2023 | 3.0 | 1.5 | 1.0 | 1.0 | 1.0 | 0 | 1.0 | 1.5 | 0 | 0 |
| | | 2024-present | 2.5 | 2.0 | 2.0 | 2.0 | 2.0 | 0 | 1.5 | 1.5 | 1.0 | 1.0 |
| SA | 5 | Pre 2006 | 1.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| UI input fields | | | Values applied by software[7] | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| State | NCC climate zone | Year of construction | Roof / Ceiling | External Wall | | | | Floor | | | | |
| | | | | Framed | Masonry | Masonry w/ furring channel | Concrete w/ furring channel | CSOG | Susp. over unenclosed[8] subfloor with carpet | Susp. over unenclosed subfloor without carpet | Susp. over enclosed[9] subfloor with carpet | Susp. over enclosed subfloor without carpet |
| | | 2006-2010 | 2.5 | 1.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 2011-2023 | 3.0 | 1.5 | 1.0 | 1.0 | 1.0 | 0 | 1.0 | 1.5 | 0 | 0 |
| | | 2024-present | 4.0 | 1.5 | 1.5 | 1.5 | 1.5 | 0 | 2.0 | 2.0 | 1.0 | 1.0 |
| SA | 6 | Pre 2006 | 1.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 2006-2010 | 3.0 | 1.5 | 1.0 | 1.0 | 1.0 | 0 | 0.5 | 1.0 | 0 | 0 |
| | | 2011-2023 | 3.0 | 1.5 | 1.0 | 1.0 | 1.0 | 0 | 1.0 | 1.5 | 0.5 | 0.5 |
| | | 2024-present | 3.5 | 1.5 | 1.5 | 1.5 | 1.5 | 0.64 | 2.0 | 2.0 | 1.5 | 1.5 |
| TAS | 7 | Pre 2006 | 1.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 2006-2013 | 3.5 | 1.5 | 1.0 | 1.0 | 1.0 | 0 | 0.5 | 1.0 | 0 | 0 |
| | | 2014-present | 3.5 | 2.5 | 2.5 | 1.0 | 1.0 | 0 | 1.0 | 1.5 | 1.0 | 1.5 |
| TAS | 8 | Pre 2006 | 1.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 2006-2013 | 4.0 | 2.5 | 1.0 | 1.0 | 1.0 | 0 | 1.5 | 2.0 | 0 | 0 |
| | | 2014-present | 4.5 | 3.5 | 3.5 | 3.5 | 3.5 | 1.0 | 1.5 | 2.0 | 1.0 | 1.5 |
| VIC | 4 | Pre 1991 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 1991- 2004 | 2.5 | 1.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 2005-2011 | 2.5 | 1.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 2012-2023 | 3.0 | 1.5 | 1.0 | 1.0 | 1.0 | 0 | 1.0 | 1.5 | 0 | 0 |
| | | 2024-present | 2.5 | 2.0 | 2.0 | 2.0 | 2.0 | 0 | 1.5 | 1.5 | 1.0 | 1.0 |
| VIC | 6 | Pre 1991 | 1.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| UI input fields | | | Values applied by software[7] | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| State | NCC climate zone | Year of construction | Roof / Ceiling | External Wall | | | | Floor | | | | |
| | | | | Framed | Masonry | Masonry w/ furring channel | Concrete w/ furring channel | CSOG | Susp. over unenclosed[8] subfloor with carpet | Susp. over unenclosed subfloor without carpet | Susp. over enclosed[9] subfloor with carpet | Susp. over enclosed subfloor without carpet |
| | | 1991- 2004 | 2.5 | 1.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 2005-2011 | 3.0 | 1.5 | 1.0 | 1.0 | 1.0 | 0 | 0.5 | 1.0 | 0 | 0 |
| | | 2012-2023 | 3.0 | 1.5 | 1.0 | 1.0 | 1.0 | 0 | 1.0 | 1.5 | 0.5 | 0.5 |
| | | 2024-present | 3.5 | 1.5 | 1.5 | 1.5 | 1.5 | 0.64 | 2.0 | 2.0 | 1.5 | 1.5 |
| VIC | 7 | Pre 1991 | 1.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 1991- 2004 | 2.5 | 1.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 2005-2011 | 3.5 | 1.5 | 1.0 | 1.0 | 1.0 | 0 | 0.5 | 1.0 | 0 | 0 |
| | | 2012-2023 | 3.5 | 2.5 | 2.5 | 1.0 | 1.0 | 0 | 1.0 | 1.5 | 1.0 | 1.5 |
| | | 2024-present | 2.5 | 2.0 | 2.0 | 2.0 | 2.0 | 0.64 | 2.0 | 2.0 | 2.0 | 2.0 |
| VIC | 8 | Pre 1991 | 1.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 1991- 2004 | 2.5 | 1.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 2005-2011 | 4.0 | 2.5 | 1.0 | 1.0 | 1.0 | 0 | 1.5 | 2.0 | 0 | 0 |
| | | 2012-2023 | 4.5 | 3.5 | 3.5 | 3.5 | 3.5 | 1.0 | 1.5 | 2.0 | 1.0 | 1.5 |
| | | 2024-present | 2.5 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| WA | 1 | Pre 2006 | 1.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 2006-2011 | 2.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 2011-2025 | 3.0 | 1.5 | 1.0 | 1.0 | 1.0 | 0 | 1.0 | 1.5 | 0.5 | 1.0 |
| | | 2026-onward | 3.0 | 1.5 | 1.5 | 1.5 | 1.5 | 0 | 0 | 0 | 0 | 0 |
| WA | 3 | Pre 2006 | 1.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| UI input fields | | | Values applied by software[7] | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| State | NCC climate zone | Year of construction | Roof / Ceiling | External Wall | | | | Floor | | | | |
| | | | | Framed | Masonry | Masonry w/ furring channel | Concrete w/ furring channel | CSOG | Susp. over unenclosed[8] subfloor with carpet | Susp. over unenclosed subfloor without carpet | Susp. over enclosed[9] subfloor with carpet | Susp. over enclosed subfloor without carpet |
| | | 2006-2011 | 2.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 2011-2025 | 3.0 | 1.5 | 1.0 | 1.0 | 1.0 | 0 | 1.0 | 1.5 | 0 | 0 |
| | | 2026-onward | 4.5 | 1.5 | 1.5 | 1.5 | 1.5 | 0 | 1.5 | 1.5 | 0 | 0 |
| WA | 4 | Pre 2006 | 1.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 2006-2011 | 2.5 | 1.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 2011-2025 | 3.0 | 1.5 | 1.0 | 1.0 | 1.0 | 0 | 1.0 | 1.5 | 0 | 0 |
| | | 2026-onward | 2.5 | 2.0 | 2.0 | 2.0 | 2.0 | 0 | 1.5 | 1.5 | 1.0 | 1.0 |
| WA | 5 | Pre 2006 | 1.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 2006-2011 | 2.5 | 1.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 2011-2025 | 3.0 | 1.5 | 1.0 | 1.0 | 1.0 | 0 | 1.0 | 1.5 | 0 | 0 |
| | | 2026-onward | 4.0 | 1.5 | 1.5 | 1.5 | 1.5 | 0 | 2.0 | 2.0 | 1.0 | 1.0 |
| WA | 6 | Pre 2006 | 1.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 2006-2011 | 3.0 | 1.5 | 1.0 | 1.0 | 1.0 | 0 | 0.5 | 1.0 | 0 | 0 |
| | | 2011-2025 | 3.0 | 1.5 | 1.0 | 1.0 | 1.0 | 0 | 1.0 | 1.5 | 0.5 | 0.5 |
| | | 2026-onward | 3.5 | 1.5 | 1.5 | 1.5 | 1.5 | 0.64 | 2.0 | 2.0 | 1.5 | 1.5 |
| NT | 1 | Pre 2011 | 1.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 2011-onward | 3.0 | 1.5 | 1.0 | 1.0 | 1.0 | 0 | 1.0 | 1.5 | 0.5 | 1.0 |
| NT | 3 | Pre 2011 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 2011-onward | 3.0 | 1.5 | 1.0 | 1.0 | 1.0 | 0 | 1.0 | 1.5 | 0 | 0 |