

# Updating BRANZ *House insulation guide*

BRANZ is currently updating the *House insulation guide* to align with the new requirements of the 5th edition of Building Code clause H1 *Energy efficiency*.

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The *House insulation guide* provides construction R-values for a range of roof, wall and floor construction types and is typically used to support the schedule method of compliance.

## **New construction types**

The changes to clause H1 are significant and will require higher construction R-values for roofs, floors and windows in order to achieve better thermal performance (see *Building Code changes in Build 188*).

The fully revised *House insulation guide* will cover a range of new construction types, which

will meet or exceed the higher construction R-values in the 5th edition of clause H1.

As the guide will be a digital publication, more construction types will be added over time.

The guide will also model construction types with higher framing ratios and will include new tables with updated window R-values.

## **Inter-related issues**

Additional information will also be provided on inter-related issues such as moisture risk, overheating, solar heat gain coefficients, junctions and embodied carbon.

## **Floor R-values**

The modelling methods required for calculating floor slab R-values, along with some of the assumptions used, have been updated in the 5th edition of clause H1.

R-values will change slightly as a result in the new *House insulation guide*, and values in previous versions of the guide should not be used. ◀

**Note** The 6th edition of the BRANZ *House insulation guide* will be published in digital format in the second half of 2022.