

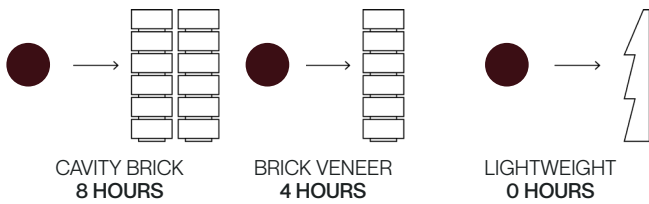
CAVITY BRICK

What you need to know

Midland Brick

THINK
BRICK
AUSTRALIA

Cavity brick walling is a construction technique where two leaves of brick are laid with a small gap between them. One of its greatest advantages is delaying the flow of heat from the exterior to interior of a building by 8 hours¹ due to the high thermal mass of its two brick leaves.

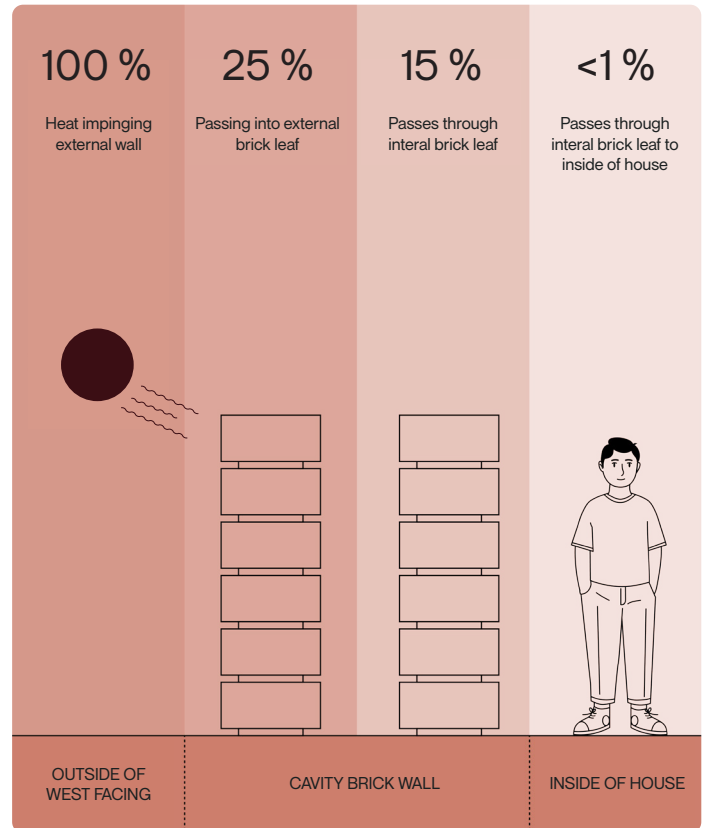


Starting from October 1st, 2023*, the NCC requires buildings to achieve a minimum 7-star NatHERS rating which can easily be exceeded with a cavity brick walling system.

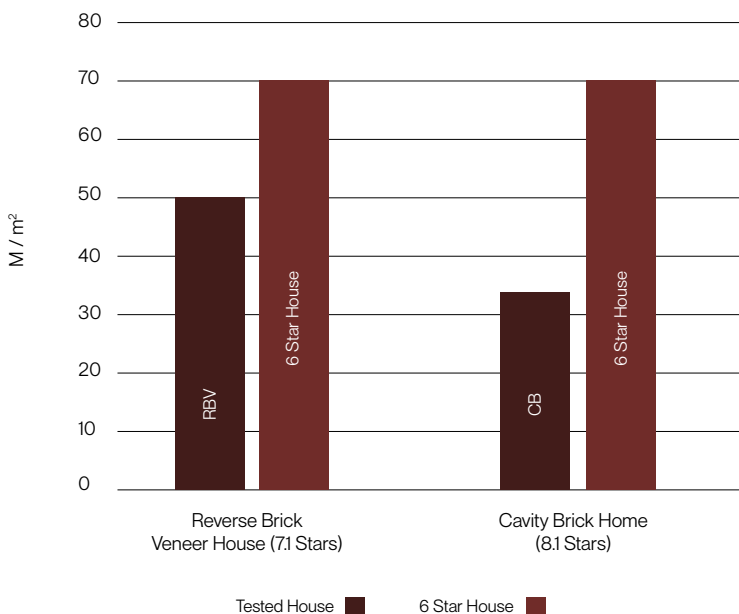
A test by YourHome compared a 6-star home to reverse brick veneer (RBV) and cavity brick. Both the tested houses had lightweight cladding on the northern side and the following traits.

Home 1: Reverse brick veneer (RBV) with single glazed windows in an aluminium frame.

Home 2: Cavity Brick with single glazed, low emissivity windows in a timber frame. The energy usage and star rating of these houses are shown below.



ENERGY USAGE



BETTER ENERGY EFFICIENCY

It was found that cavity brick can reduce energy usage by 30% when compared to Reverse brick veneer and by 50% when compared to a 6-star home. Cavity brick was also key in achieving a NatHERS rating greater than 8 stars. It was also found that the passive heating and cooling of cavity brick homes can reduce energy bills by a quarter by reducing the need for air conditioning.

Hence it has been established that cavity brick homes are an effective step toward Australia's pledge to be net zero by 2050 by helping homeowners comply with the NCC 2022 requirements and build cost saving energy efficient homes.