

Replace an Inefficient Window with a Thermally Efficient Window; Residential Only

Activity No.

BS3A

1. Activity Specific Definitions

Habitable Room means any space that can be occupied within a class 1 or class 2 dwelling (as defined by the National Construction Code). This does not include any attached garages, sheds or the like

WERS means the Window Energy Rating Scheme managed by the Australian Window Association

System U-Value means the thermal transmittance, in W/m^2K , of a window system including glass, sash and frame, as registered under WERS.

Total Window Area means the area of window replaced in square metres (**metres × metres**).

Thermally efficient window means a window (including glazing and frame) that meets the requirements of the table below.

Window Type	Minimum WERS Star Rating Heating Mode	Minimum WERS Star Rating Cooling Mode	Maximum System U-Value (W/m^2K)
4 star Window	4 stars	1.5 stars	3.1
6 star Window	6 stars	3.5 stars	2.3

2. Activity Description (Summary)

Replace an external single glazed window with a new thermally efficient window

3. Activity Eligibility Requirements

1. Pre-existing windows to be replaced must be single glazed and located in an external wall of a habitable room
2. The installation of thermally efficient windows must not be otherwise required by law, for example as condition of a development approval under the *Development Act 1993*.

4. Installed Product Requirements

The installed product must:

1. Be a window product (glazing and frame) rated by WERS.
2. Comply with the effective version of AS 2047 and AS 1288.
3. Be either a 4 Star Window, or a 6 Star Window in accordance with the minimum requirements for a thermally efficient window as detailed in the table above.
4. Have a warranty of at least 5 years
5. Comply with any product safety or other product performance requirements in a relevant code of practice or other relevant legislation applying to the activity.
6. Be fit for the purpose for which it is intended to be used

5. Minimum Installation Requirements

1. All products must be installed in accordance with manufacturer's instructions
2. The window must be installed in compliance with the effective versions of AS 2047 and AS 1288.
3. The window frame must be effectively sealed around its entire perimeter to prevent infiltration of outside air
4. The activity must be completed and certified in accordance with any relevant code or codes of practice and other relevant legislation applying to the activity, including any licensing, registration, statutory approval, activity certification, health, safety, and environmental or waste disposal requirements.

6. Activity energy savings

The normalised energy saved from undertaking this activity is equal to:

Normalised Energy Savings (GJ) = Savings Factor (as per table below) x Total Window Area (m^2)

Activity	Savings Factor
4 Star Window (BCA Zones 4&5)	0.42715
6 Star Window (BCA Zones 4&5)	0.94799
4 Star Window (BCA Zones 6)	0.53279
6 Star Window (BCA Zones 6)	1.36852