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High Performance Aluminium Window Systems - Part of the Energy Efficiency Solution

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1. What is a U-value (Uw)?

The U-value measures thermal transmittance – i.e. the rate at which heat is transferred through a material.

2. What is Solar Heat Gain Coefficient (SHGC)?

Solar heat gain coefficient refers to the fraction of solar radiation admitted through a window or door. This radiation is either transmitted directly and/or absorbed, and subsequently released as heat inside a home.

3. How would you describe conductive heat?

Conductive heat refers to the movement of heat from the warmer to cooler side of an object. The higher the conductivity, the quicker the movement of heat.

4. List three characteristics of an aluminium window frame?

Answers include three any of the following:

- Lightweight
- Strength
- Durability
- Corrosion resistance
- Displaying uniform quality
- Recyclability

5. Describe the benefits of Insulative Glass Units (IGU)

Insulative Glass Units provide increased insulation, reduce condensation, and solar control options.

6. Briefly explain the role of the Window Energy Rating Scheme (WERS) database.

The WERS database rates the energy and energy-related performance of windows, skylights and glazed doors.