
The below answer sheet is for your own self-assessment.
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EXTERNAL SUN SHADING FOR MULTI-RESIDENTIAL PROJECTS - BENEFITS, CONSIDERATIONS & COMPLIANCE

ShadeFactor



1) Outline the various types of external shading systems that are suitable for multi-residential applications.

External venetian blinds, External vertical awnings, Zip guided awnings, Folding arm awnings, Bi-fold and sliding screens, Sliding shutters, and louvres.

2) Compared to internal blinds and curtains, why are external shading systems a good choice for multi-residential buildings?

Because they ensure that solar radiation is deflected and/or absorbed before it enters the glass and becomes trapped in the building.

3) Why is it important to incorporate external shading systems early, during the design phase of projects?

- Allows suppliers to provide the best solution and ensure the finished façade is as per design intent.
- Means issues regarding mounting, wind-load, and appearance can be addressed. Ensures seamless integration with the design
- Allows for assistance with fire regulatory compliance and provision of technical drawings and documentation.

4) How does colour affect the performance of external shading systems?

Light coloured sun shading systems allow a lot of daylight to enter the building and are characterized by high reflectance and high heat transmittance. In contrast, dark coloured systems allow for little daylight to enter and are characterized by low heat transmittance and low reflectance.

5) Identify the various ways in which sun shading systems can contribute to energy savings.

Sun shading systems contribute to energy savings by reducing the cooling load, reducing the heating load, and reducing the need for artificial lighting.

6) In Australia, what regulations are associated with the installation of shading systems and thermal efficiency?

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