

Essential information for glass specification

How to specify clauses

- Solar control glass may be subject to thermal stress and should therefore be thermally assessed prior to installation.
- Heat soak treatment is a destructive test, which reduces the likelihood of spontaneous breakage by converting impurities such as nickel sulphide inclusions.
- Heat Strengthening – All glass which requires extra strength and thermal resistance will be heat strengthened.
- Heat strengthening increases the strength of annealed glass. However it is not a substitute for toughened glass. Heat strengthened glass is not a Grade A safety glass.
- In the event of fracturing, heat strengthened glass will crack and tends to remain in glazed position.
- The glass shall comply with the following performance criteria: Visible Light Transmission % U Value Shading Coefficient (SC) Solar Heat Gain Coefficient (SHGC)
- All glass is to be selected and installed in accordance, but not exclusively, with the following Australian and/or New Zealand Standards
- Australian Standard AS1288 Glass in Buildings Selection and Installation
- Australian Standard AS1170 Minimum Windloads on Structures
- AS/NZS2208 Safety Glazing Materials in Buildings
- AS/NZS4666 Insulating Glass Units
- AS/NZS4667 Quality Requirements for cut-to-size and Processed Glass

This specification guide has been designed to provide Architects and Specifiers with a broad range of information relating to glass types, sizes, properties, behaviours and configurations. Due to the variety of issues that are unique to each project, Oceania™ Glass strongly recommends that prior to commencing your project you contact Oceania™ Glass or your glazing professional and discuss the unique requirements of your project.

There are various key considerations when designing and determining the appropriate glass for an application. These range from the safety requirements and breakage characteristics of the glass type to the aesthetic or energy performance of the product. Oceania™ Glass can help you to determine your glass requirements based on your design, although the design requirement and fitness for purpose falls within the task of the designer.

When requesting assistance with glass specification it makes it easier and quicker for Oceania™ Glass to reply to your request if the appropriate information is supplied. The following lists the relevant information required for the glass determination in line with Australian Standard AS1288-2021 Glass in Buildings – Selection and Installation.

Vertical glazing

- Supply a drawing (elevation and plan)
- Provide windload – ULS & SLS for area under consideration (if the application is external)
- Panel size – Height (mm) x Width (mm)
- Details of how the panel is supported
- Internal or external application

Roof glazing

- Supply a drawing
- Provide windload – ULS & SLS for roof cladding (different to that used for vertical cladding)
- Live load – determine from AS1170 pt1. If unsure which load is appropriate then consult the Building Surveyor for advice
- Panel size – distance up slope (mm) x distance across slope (mm)
- Angle of panel measured from the horizontal
- Details of how the panel is supported, four edges or two opposite edges

- Advise if the panel is supported on top of the glass as well as under the glass
- Distance above the floor or ground (metres) to the highest point of the glass

Balustrade

- Supply a drawing
- Advise difference in level the glass is protecting
- Provide windload – ULS & SLS
- Live load – determine from AS1170 pt1. If unsure which load is appropriate then consult the Building Surveyor for advice.
- Panel size – Height (mm) x Width (mm)
- Details of how the panel is supported
- Details of how the handrail is supported
- Internal or external application

Thermal assessments

Oceania™ Glass carries out thermal assessments for its customers, free of charge. Please see TECHNICAL BRIEFING Thermal Stress and Thermal Fracture [Microsoft Word - OG_Technical_Thermal Stress and Thermal Fracture_2020.docx](#) (sfo2.cdn.digitaloceanspaces.com)

Complete and return Thermal Assessment Questionnaire. [Microsoft Word - OG_Technical_Thermal-Assessment-Questionnaire variation 2](#) (sfo2.cdn.digitaloceanspaces.com)

Thermal assessments do not imply the glass is fit for purpose but are general in nature. Oceania™ Glass recommend that you receive expert independent evaluation and advice before placing an order or seek confirmation from your glazing contractor of fitness for purpose.

For more information about technical information call 1800 810 403