

0461P OCEANIA GLAZING**Branded worksection**

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Worksection abstract

This branded worksection *Template* is applicable to glass manufactured by OCEANIA for processing and glazing by others in framed openings to windows, doors and curtain walls based around AS 1288.

Guidance text

All text within these boxes is provided as guidance for developing this worksection and should not form part of the final specification. This *Guidance* text may be hidden or deleted from the document using the hidden text *Hide* and *Delete* functions of your word processing system. For additional information visit FAQs at www.natspec.com.au.

Optional style text

Text in this font (blue with a grey background) covers items specified less frequently. It is provided for incorporation into *Normal* style text where it is applicable to a project.

Related material located elsewhere in NATSPEC

If a listed worksection is not part of your subscription package and you wish to purchase it, contact NATSPEC.

Related material may be found in other worksections. See for example:

- *0421 Roofing – combined* for glass roofs.
- *0432 Curtain walls*.
- *0451 Windows and glazed doors*.
- *0455 Door hardware*.
- *0456 Louvre windows*.
- *0462 Structural silicone glazing* for adhesive fixed glazing.
- *0463 Glass blockwork*.
- *0467 Glass components* for mirrors, shower screens and balustrades.
- *0524 Partitions – glazed* for glazed internal partitions.
- *0641 Applied wall finishes* for glass lining to sheeted partitions.

Cross references

Worksections that reference this worksection are:

- *0462 Structural silicone glazing*.

Material not included in NATSPEC

Some projects may include items not covered by NATSPEC. For these you may need to create new text or modify this text or a suitable worksection.

Documenting this and related work

You may document this and related work as follows:

- The glazing content of this worksection is also included in *0451 Windows and glazed doors* to suit a trade package for factory glazed windows and doors.
- Use *0461 Glazing* in conjunction with *0432 Curtain walls*, *0462 Structural silicone glazing* and site glazed situations. Coordinate as appropriate.
- For specifying glass, see NATSPEC TECHnote PRO 006.

The *Normal* style text of this worksection may refer to items as being documented elsewhere in the contract documentation. Make sure they are documented.

For example:

- U-Value and Solar heat gain coefficient.

Search acumen.architecture.com.au, the Australian Institute of Architects' practice advisory subscription service, for notes on the following:

- Warranties and guarantees.

Specifying ESD

The following may be specified using included options:

- Thermal performance to reduce heating/cooling load by specifying the required U-Value and SHGC.
- Glass selection with an acceptable Visible transmittance for natural lighting.
- High performance glass, e.g. low-e, self-cleaning glass.

The following may be specified by including additional text:

- Recycled material content.

Refer to the NATSPEC TECHreport TR 01 on specifying ESD.

1 GENERAL

OCEANIA GLASS specialises in glass making, distribution and architectural support. OCEANIA GLASS is passionate about glass and has a rich history in the manufacture and distribution of glass in Australasia. OCEANIA GLASS products are manufactured locally or sourced carefully from overseas to ensure they comply with Australian Standards. Because of this attention to product quality, OCEANIA GLASS is featured in many iconic buildings.

1.1 RESPONSIBILITIES

General

Requirement: Provide OCEANIA glass and glazing, as documented.

Documented is defined in *0171 General requirements* as meaning contained in the contract documents.

Performance

Thermal qualities: U-Value and Solar heat gain coefficient (SHGC) as documented.

Solar control glass may be subject to thermal stress and should therefore be thermally assessed before installation.

1.2 COMPANY CONTACTS

OCEANIA technical contacts

Website: www.oceaniaglass.com/contacts/contact-us/

1.3 CROSS REFERENCES

General

Requirement: Conform to the following:

- *0171 General requirements*.

0171 General requirements contains umbrella requirements for all building and services worksections.

List the worksections cross referenced by this worksection. *0171 General requirements* references the *018 Common requirements* subgroup of worksections. It is not necessary to repeat them here. However, you may also wish to direct the contractor to other worksections where there may be work that is closely associated with this work.

NATSPEC uses generic worksection titles, whether or not there are branded equivalents. If you use a branded worksection, change the cross reference here.

1.4 STANDARDS

Glazing

Glass type and thickness: To AS 1288, if no glass type or thickness is nominated.

For glass type and thickness refer to AS 1288 Table 4.1 and to AS/NZS 4667.

Glass thickness may be governed by human safety and other requirements – see AS 1288 Sections 5, 6 and 7. The maximum spans of various glasses are shown in AS 1288 Figures 4.1 and 4.34.

Show or nominate a thickness where:

- The glass is to be thicker than required by AS 1288 or applicable regulations.
- There are unusual conditions requiring detailed calculations for which the designer should be responsible.

In other cases the determination of thickness is usually within the competence of the glazing contractor.

Where thickness is determined by wind actions, the design wind pressure needs to be known in order to interpret the figures and tables of glass sizes and thicknesses in AS 1288.

Materials and installation: To AS 1288.

Quality requirements for cut-to-size and processed glass: To AS/NZS 4667.

The standard specifies requirement for the following:

- Cut sizes of flat, clear ordinary annealed and tinted heat-absorbing glass with glossy, apparently plane and smooth surface, which are used for general and architectural glazing or similar.
- Cut sizes of flat, clear ordinary annealed and tinted heat-absorbing processing glass used for Grade A safety requirements (i.e. toughened or laminated).
- Cut sizes of ordinary annealed, patterned and wired glass used in decorative and general glazing applications.
- Cut sizes of wired glass used for Grade B safety and general glazing applications.
- Processed laminated and toughened glass.

1.5 MANUFACTURER'S DOCUMENTS

Technical manuals

Website: <http://www.oceaniaglass.com.au/technical/downloads>

1.6 INTERPRETATION

Abbreviations

General: For the purposes of this worksection the following abbreviation applies:

- R_w: Weighted sound reduction index.

Refer to NATSPEC TECHnote DES 032 for information on airborne sound insulation.

Edit the **Abbreviations** subclause to suit the project or delete if not required. List alphabetically.

Definitions

General: For the purpose of this worksection the definitions given in AS/NZS 4668 apply.

1.7 SUBMISSIONS

Certification

Design: Submit an engineers' certificate confirming conformance to AS 1288.

Certification for a particular project may not be required if the window system is a nominated product that conforms to AS 2047 Appendix B.

Thermal safety assessment: Consider obtaining a thermal safety assessment from the glass manufacturer at the early design stage.

Opacified glass: Submit a report, from the manufacturer certifying that the proposed method of opacifying the glass will not be detrimental to the glass or affect the glass product warranty.

Installation: Submit certification from the fabricator that the method of glazing, the selection of sealant systems and conditions next to the glass will not be detrimental to the long term structural performance, weathering capabilities and visual qualities of the glass.

Glazier's data: Submit the glazing subcontractor's statement certifying the following:

- A satisfactory thermal safety assessment.
- The assembled frame provides the required glazing clearances and tolerances, and maximum and minimum joint configurations, based on the bow, warp and kink characteristics of the required glass types, and is ready for glazing.

Execution details

Site glazing: If site glazing is intended, submit proposals.

Operation and maintenance manuals

Requirement: Submit manufacturers' published recommendations for in-service use.

Samples

General: Submit samples of glazing materials, each at least 200 x 200 mm, showing specified visual properties and the range of variation, if any, for each of the following:

- Tinted or coloured glass or glazing plastics.
- Surface modified or surface coated glass.
- Patterned or obscured glass or glazing plastics.
- Ceramic-coated glass.
- Wired glass.
- Insulating glass units.
- Mirror glass.

Edit as required.

Shop drawings

Requirement: Submit shop drawings showing the following:

- Method of glazing
- Rebate depth.
- Edge restraint.
- Clearances and tolerances.
- Glazing gaskets and sealant beads.

Warranties

Requirement: Submit the following:

- [complete/delete]

Manufacturer's warranty: Submit the published product warranties.

Describe the requirements of warranties in **PRODUCTS** or **EXECUTION**, as appropriate, and list the submissions required here.

1.8 INSPECTION**Notice**

Inspection: Give notice so that inspection may be made of the following:

- Glass products before they are installed.

Amend to suit the project, adding critical stage inspections as required.

Hold points, if required, should be inserted here.

2 PRODUCTS**2.1 GENERAL****Product substitution**

Other products: Conform to **PRODUCTS, GENERAL, Substitutions** in *0171 General requirements*.

The *0171 General requirements* clause sets out the submissions required if the contractor proposes alternative products. Refer also to NATSPEC TECHnote GEN 006 for more information on proprietary specification.

Product identification

General: Marked to show the following:

- Manufacturer's identification.
- Product brand name.
- Product type.
- Quantity.
- Product reference code and batch number.
- Date of manufacture.

Edit the list to suit the project or delete if not required.

Heat soaking

Requirement: All toughened and heat strengthened glass products.

Standard: To EN 14179-1.

Heat soaking is a process that reduces the risk of breakage during service from impurities such as nickel sulphide inclusions in the glass. The process puts the glass through a heat cycle to encourage the glass to break under test if it is at risk of inclusions.

All monolithic toughened and heat strengthened glass with a surface compression greater than 52 MPa should be heat soaked.

Heat soaked thermally toughened soda lime silica glass is defined in EN 14179-1 and specifies the heat soak process, along with requirements for tolerances, flatness, edgework and fragmentation.

Heat strengthening

Requirement: Heat strengthen all glass that requires extra strength and thermal resistance.

Standard: To ASTM C1048.

Heat strengthening increases the strength of annealed glass. It is not a substitute for toughened glass.

Storage and handling

Storage: Store glass and glazing materials in a clean, dry area and unaffected by weather, to the manufacturer's recommendations. Protect from building materials and loose debris such as wet plaster, mortar, paint and welding splatter.

Handling: Handle glass to the manufacturer's recommendations.

2.2 GLASS**Glass and glazing materials**

Glass: Free from defects which detract from appearance or interfere with performance under normal conditions of use.

Safety glass

Toughened glass product: OCEANIA QLam™.

Standard: To AS/NZS 2208.

AS/NZS 2208 includes toughened, laminated, wired and organic-coated glass, and safety plastic glazing sheets. The required grade (A or B) is specified in AS 1288 Section 5 for each application.

See AS/NZS 2208 Section 2 for dimensional specifications and AS/NZS 2208 Table 2.3 for overall bow and warpage.

Type: Grade A to AS 1288.

Certification: Required.

- Certification provider: An organisation accredited by the Joint Accreditation System of Australia and New Zealand (JAS-ANZ).

Unacceptable blemishes in heat-treated flat glass (including tinted and coated glass)

Standard: To AS/NZS 4667.

2.3 GLASS IDENTIFICATION**Heat soaked glass**

Requirement: Marked to EN 14179-1 or certified to AS 1288 clause 3.8.2.

Noise reducing glazed assemblies

Identification: Label each panel with a legible non-permanent mark, self-destroying when removed, stating and certifying the R_w rating, and identifying the testing authority. Remove when directed.

Safety glazing materials

Identification: Identify each piece or panel, to AS 1288.

Identification: See AS 1288 clause 5.23 on identification of safety glass to AS/NZS 2208. Inconspicuous permanent labelling of tempered and reflective-coated glass for use in curtain walls is recommended, to identify inner and outer surfaces, strength grades, manufacturer, processor, and standard.

2.4 GLAZING MATERIALS

If windows and glazed doors are selected as complete proprietary items, delete this clause.

General

Requirement: Glazing materials including putty, glazing compounds, sealants, gaskets, glazing tapes, spacing strips, spacing tapes, spacers, setting blocks, shims and compression wedges appropriate for the conditions of application and required performance.

Compounds, sealants and tapes

Glazing tapes: To AAMA 800, specifications 804.3, 806.3, or 807.3, as applicable.

If an AGWA Compliance Certificate is not nominated in **SELECTIONS**, change this *Optional* style text to *Normal* style text to describe the quality standards for glazing tapes, glazing compounds, narrow joint sealer, exterior perimeter sealing compound, non-drying sealant and expanded cellular glazing tape.

AAMA 800 glazing tape definitions:

- 804.3 - Designed for use in less severe back bedding and drop-in glazing applications such as residential and light commercial fenestrations.
- 806.3 - Designed for use in high performance commercial fenestrations in which the tape is subjected to continuous pressure exerted from gaskets or pressure generating stop designs.
- 807.3 - Designed for use in commercial fenestrations in which the tape is not subjected to continuous pressure from gaskets or pressure generating stop designs. This tape may be used in applications described for 804.3 tapes.

Glazing compounds: To AAMA 800 specification 802.3 (Types I or II), or 805.2, as applicable.

AAMA 800 glazing compounds definitions:

- 802.3 (Type I and II): Ductile back bedding compound intended to remain ductile and to permit movement without loss of bond.
- 805.2 (Type A and C): Bonding type bedding compound which cure relatively hard and stiff and to permit limited movement without loss of bond.

Narrow joint seam sealer: To AAMA 800 specification 803.3.

AAMA 800 narrow joint seam sealer definitions:

- 803.3 (Type I): Non-sag narrow joint sealers which are elastic or ductile compounds with maximum slump of 2.5 mm.
- 803.3 (Type II): Self-levelling narrow joint sealers which are elastic or ductile compounds with maximum slump of 2.5 mm.

Exterior perimeter sealing compound: To AAMA 800 specification 808.3.

AAMA 800 exterior perimeter sealing compound definition:

- 808.3: Perimeter sealing compound intended to remain elastic or ductile and to permit movement without loss of bond.

Non-drying sealant: To AAMA 800 specification 809.2.

AAMA 800 non-drying sealant definition:

- 809.2: Non-drying sealant intended to remain pliable and tacky for use in sealing hidden joints.

Expanded cellular glazing tape: To AAMA 800 specifications 810.1.

AAMA 800 expanded cellular glazing tape definitions:

- 810.1 (Type I): Tape intended as primary seal to prevent air and water leakage.
- 810.1 (Type II): Tape intended as secondary seal where tape used in combination with a full bead of wet sealant to prevent air and water leakage.

Primer

Compatibility: Apply the manufacturer's recommended primer to the surfaces in contact with sealant materials.

2.5 ANCILLARY COMPONENTS AND FITTINGS

Extruded gaskets and seals

General: Provide seals, as documented.

Location or function: [complete/delete]

Materials: Non-cellular (solid) elastopressive seals as follows:

- Rubber products (neoprene, ethylene propylene diene monomer (EPDM) or silicone rubber): To BS 4255-1.
- Flexible polyvinyl chloride (PVC): To BS 2571, E type compounds, colour fastness grade B.

Pile weather strips

Standard: To AAMA 701/702.

Standard: AAMA 701/702 is a guide to selecting pile weather strips used in windows and doors. It defines requirements to restrict air and water penetration.

Location: [complete/delete]

Material: Polypropylene or equivalent pile and backing, low friction silicone treated, ultraviolet stabilised.

Finned type: A pile weather seal with a central polypropylene fin bonded into the centre of the backing rod and raised above the pile level.

3 EXECUTION

3.1 GLASS PROCESSING

General

Processing: Perform required processes on glass, including cutting, obscuring, silvering and bending. Form necessary holes, including for fixings, equipment, access openings and speaking holes. Process exposed glass edges to a finish not inferior to ground arised.

3.2 INSTALLATION

Glazing

If the glazing system or method is not covered by the installation provisions of AS 1288 (e.g. patent glazing, structural glazing or installation of IGUs) edit to suit the recommendations of the system and materials manufacturer.
 Specify in *0462 Structural silicone glazing* or *0432 Curtain walls* particular installation methods and detailed performance testing requirements for water and airtightness.

General: Install the glass as follows:

- Permanently fix in place each piece of glass to withstand the normal loadings and ambient conditions at its location without distortion or damage to glass and glazing materials.
- No transfer of building movements to the glass.
- Watertight and airtight for external glazing.

Temporary marking: Use a method which does not harm the glass. Remove marking on completion.

Toughened glass: Do not cut, work, or permanently mark after toughening. Use installation methods which prevent the glass making direct contact with metals or other non-resilient materials.

Heat absorbing glass: In locations exposed to direct sunlight, provide wheel cut edges free from damage or blemishes, with minimum feather.

Preglazing

Window assemblies and glazed doors: Supply inclusive of glazing, shop preglazed.

Curtain walls: Supply inclusive of glazing, shop preglazed.

Site glazing

Minimum dimensional requirements: Edge clearance, edge cover, front clearance and back clearance to AS 1288.

Vision panels: Install so that they are to be removable from: [complete/delete]

External timber framed glazing: Glaze with putty.

Preglazing and **Site glazing** are alternatives, edit as appropriate. Nominate the face.

3.3 COMPLETION

Replacement

Requirement: After replacing damaged glass, leave the work clean, polished, free from defects, and in good condition.

Cleaning

Method: Clean with soft clean cloths and clean water, finishing with a clean squeegee. Do not use abrasive or alkaline materials.

Extent: All frames and glass surfaces inside and out.

Warranties

List the requirements of the action to be warranted.
 Delete this subclause if glass and glazing materials are covered by a comprehensive window or curtain wall warranty, or if material performance is, for the purposes of the project, sufficiently covered by consumer protection legislation.

Glazing subcontractor’s warranty: Provide an undertaking conditional only on compliance with the manufacturers’ recommendations for maintenance, to repair or replace glass and glazing materials that become defective or prove unsuitable for the nominated application; during the warranty period.

4 SELECTIONS

Schedules are a way of documenting a selection of proprietary or generic products or systems by their properties. Indicate their locations here and/or on the drawings. Refer to NATSPEC TECHnote GEN 024 for guidance on using and editing schedules.

4.1 PERFORMANCE

Use the **Glass performance schedule** if *0461p OCEANIA glazing* is associated with *0432 Curtain walls* or *0462 Structural silicone glazing*. Delete the schedule if all windows are specified in *0451 Windows and glazed doors*.

Glass performance schedule

Property	A	B	C
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Property	A	B	C
U-Value (thermal transmittance, W/m ² .K)			
Solar heat gain coefficient (SHGC)			
Weighted sound reduction index (R _w or R _w + C _{tr})			
Visible transmittance (T _{vis})			
Reflectance (%)			

A, B, C: These designate each instance or type or location of the item scheduled.

Edit codes in the **Schedule** to match those on drawings.

U-Value (thermal transmittance, W/m².K): Note that the total system U-Value for the glass and supporting frame, not glass only U-Value, must be used to determine NCC conformance, and calculated to BCA Spec J1.5a. This should be obtained from tests to NFRC 100. Select the product to fulfil design and compliance requirements. See NATSPEC TECHnote DES 015 on NCC energy provisions.

Solar heat gain coefficient (SHGC): Note that total system SHGC for glass and supporting frame, not glass only SHGC, must be used to determine NCC conformance. These should be obtained from tests to NFRC 200. Select the product to fulfil design and compliance requirements.

Weighted sound reduction index: It is advisable to obtain the advice of an acoustic consultant on the selection of a R_w or R_w + C_{tr} rating for sound transmission reduction. State the required rating to AS/NZS ISO 717.1. Refer to NATSPEC TECHnote DES 032 for information on airborne sound insulation.

Visible transmittance (T_{vis}): The visible light passing directly through the glass. The higher the T_{vis}, the more daylight.

Reflectance %: A maximum value is often a council requirement. Refer to the NCC Glazing calculator www.abcb.gov.au. Delete if this requirement is more appropriately covered in the **Glass schedule**.

4.2 GLAZING

Consider exporting the OCEANIA glass selections to *0451 Windows and glazed doors*, *0462 Structural silicone glazing* and *0432 Curtain walls*.

Annealed glass schedule

Generic term/application	Product	Thickness	Colour	Process	Code
Float, general quality	OCEANIA QFloat™				
Float, optically clear	OCEANIA QFloat SuperClear™				

Thickness: Nominate a thickness if the glass is to be thicker than required by AS 1288 or applicable regulations or there are unusual conditions requiring detailed calculations for which the designer should be responsible. In other cases, the determination of thickness to AS 1288 is usually within the competence of the glazing contractor. Available from 4 mm to 19 mm. Refer to the product webpages for thicknesses available for each colour.

Colour – Float, general quality: Select from Clear, Grey, Green, Bronze or SuperClear.

Process: Select heat strengthening for annealed tinted glass installed externally.

Code: e.g. G1, G2, designation code to locate the glass type. Repeat the table for each designation code.

Noise control glass schedule

Generic term/application	Product	Thickness	Colour	Coating	Code
Noise control laminated glass	OCEANIA QLam™ Hush				
Noise control and	OCEANIA				

Generic term/application	Product	Thickness	Colour	Coating	Code
solar control laminated glass	ComfortHush™				

Thickness: Select from the following:

- OCEANIA QLam Hush™: Select from 6.5 mm, 6.88 mm, 8.5 mm, 10.5 mm, 12.5 mm or 12.88 mm to AS 1288.
- OCEANIA ComfortHush™: Select from 6.5 mm, 6.88 mm or 10.5 mm, 10.88 mm to AS 1288.

Colour: Refer to the product webpages for thicknesses available for each colour.

- OCEANIA QLam Hush™: Clear, Grey or Translucent
- OCEANIA ComfortHush™: Select from Clear Neutral, Grey or Translucent

Coating: Select ComfortHush low emissivity coating for improved energy efficiency.

Code: e.g. G1, G2, designation code to locate the glass type. Repeat the table for each designation code.

Safety glass schedule

Generic term/application	Product	Thickness	Colour	Process	Code
Laminated – annealed	OCEANIA QLam™				
Laminated – annealed	OCEANIA OptiView™				

Thickness: Nominate a thickness if the glass is to be thicker than required by AS 1288 or applicable regulations or there are unusual conditions requiring detailed calculations for which the designer should be responsible. In other cases the determination of thickness to AS 1288 is usually within the competence of the glazing contractor. Select from the following:

- OCEANIA QLam™ standard thickness: 6.38 mm, 6.76 mm, 38 mm, 10.38 mm, 10.76 mm, 12.38 mm, 12.76 mm.
- OCEANIA OptiView™: 6.38 mm and 12.38 mm.

• In other cases, the determination of thickness to AS 1288 is usually within the competence of the glazing contractor.

Colour: Refer to the product webpages for the colours available for each product and thickness.

Process: Select heat strengthening for laminated annealed glass installed externally.

Code: e.g. G1, G2, designation code to locate the glass type. Repeat the table for each designation code.

Security glass schedule

Generic term/application	Product	Thickness	Colour	Code
Physical attack	OCEANIA IntruderLam™			
Physical attack	OCEANIA AssaultLam™			

Document frame strengths and glazing methods to provide the level of security required.

Product: Select from the following:

- OCEANIA IntruderLam™ for domestic and low level security applications,
- OCEANIA AssaultLam™ for low to medium security applications.

Thickness:

- OCEANIA IntruderLam™: Select 6.52 mm or 7.52 mm.
- OCEANIA AssaultLam™: Select 9.52 mm, 11.52 mm or 13.52 mm..

Colours: Refer to the product webpages for thicknesses available for each colour.

Code: e.g. G1, G2, designation code to locate the glass type.

Observation glazing schedule

Generic term/application	Product	Thickness	Colour	Code
One-way laminated	OCEANIA	8.76 mm		

Generic term/application	Product	Thickness	Colour	Code
mirror	Observa™			

Installation – OCEANIA Observa™: The reflective surface must be installed facing the subject side and higher lighting levels maintained on the subject side for this product to function as intended. A lighting level ratio of 1:7, observer: subject side, is recommended.

Colour: Consult OCEANIA.

Code: e.g. G1, G2, designation code to locate the glass type. Repeat the table for each designation code.

Patterned and decorative glass schedule

Generic term/application	Product	Thickness	Colour/Pattern	Process	Code
Patterned	OCEANIA ScalaTexture™				
Decorative	OCEANIA ScalaMirage™				
Decorative	OCEANIA ScalaDesign™				

Maximum dimensions: Sheet sizes vary with pattern. Refer to the product webpages for thicknesses available for each colour

Thickness: Nominate a thickness if the glass is to be thicker than required by AS 1288 or applicable regulations or there are unusual conditions requiring detailed calculations for which the designer should be responsible. In other cases the determination of thickness to AS 1288 is usually within the competence of the glazing contractor.

OCEANIA ScalaTexture: Select from the following:

- Annealed glass: 4 mm, 5 mm or 6 mm.
- Colour: Clear or Grey
- Pattern: Satinlite, Spotswood, Cathlite, Squarelite or Polished Wire. Refer to the product webpage for patterns available for each colour and thickness.

OCEANIA ScalaMirage™: Select from the following:

- Annealed glass: 6 mm or 10 mm.
- Colour: Clear.
- Pattern: Fuzzy, Celsius, Circle Fade, Rain, Linen, Nantahala or Tree. Refer to the product webpage for patterns available for each colour and thickness.

OCEANIA ScalaDesign™:

- Annealed Glass: 6 mm or 10 mm.
- Pattern: Cubus, Oculus or Lineus.
- Colour: Clear. Refer to the product webpage for patterns available for each colour and thickness.

Process: Heat strengthened or Toughened.

Code: e.g. G1, G2, designation code to locate the glass type.

Acid-etched glass schedule

Generic term/application	Product	Thickness	Colour	Process	Code
Acid-etched (pre-finished)	OCEANIA Lumina Cloud™				

OCEANIA LuminaCloud™ sheets are acid-etched at the time of manufacture, ensuring an overall consistent finish. It is moisture and UV resistant, and suitable for both interior and exterior applications.

Thickness: Nominate a thickness if the glass is to be thicker than required by AS 1288 or applicable regulations or there are unusual conditions requiring detailed calculations for which the designer should be responsible. In other cases the determination of thickness to AS 1288 is usually within the competence of the glazing contractor.

- Annealed, heat strengthened or toughened glass: 4 mm to 12 mm.

Colour: Clear, Grey or SuperClear. Refer to the product webpages for thicknesses available for each colour.

Process: Heat strengthened or Toughened.

Code: e.g. G1, G2, designation code to locate the glass type.

Decorative laminated glass schedule

Generic term/application	Product	Thickness	Colour	Process	Code
Laminated – white translucent	OCEANIA LuminaMist™				

Thickness: Nominate a thickness if the glass is to be thicker than required by AS 1288 or applicable regulations or there are unusual conditions requiring detailed calculations for which the designer should be responsible. In other cases the determination of thickness to AS 1288 is usually within the competence of the glazing contractor. Select from the following:

- OCEANIA LuminaMist™: 6.38 mm, 8.38 mm, 10.38 mm or 12.38 mm.
- OCEANIA LuminaMist™ Grey: 6.76 mm, 10.76 mm.
- OCEANIA LuminaMist™ SuperClear: 10.38 mm or 12.38 mm.

Process: Heat strengthened.

Refer to the product webpages for thicknesses available for each colour

Code: e.g. G1, G2, designation code to locate the glass type.

Decorative painted glass schedule

Generic term/application	Product	Thickness	Colour	Code
Painted	OCEANIA SpectraDuo™			

OCEANIA SpectraDuo™ glass is painted with paint specifically formulated for glass and the coating protected by vinyl sheet. It is classed as a Grade A safety glass under AS/NZS 2208, and is suitable for wardrobe doors and dry wall lining. It is not recommended where moisture is present, including, but not restricted to, kitchens or bathrooms.

- Maximum dimension: 2760 mm x 1220 mm.
- Thickness: 4 mm.
- Colour: White, White on SuperClear or Black.

Code: e.g. G1, G2, designation code to locate the glass type.

Non-laminated solar control glass schedule

Generic term/application	Product	Thickness	Colour	Process	Code
Solar control - tinted	OCEANIA QFloat™ Toned				
Solar control - tinted	OCEANIA QFloat™ SuperToned				
Solar control with low E coating	OCEANIA EVantage™				
Solar control with low E coating	OCEANIA EnergyTech™				
Solar control with low E coating	OCEANIA SolTech™				

Consult with OCEANIA to determine the appropriate treatment for specific applications.

Thickness: Nominate a thickness if the glass is to be thicker than required by AS 1288 or applicable regulations or there are unusual conditions requiring detailed calculations for which the designer should be responsible. In other cases the determination of thickness to AS 1288 is usually within the competence of the glazing contractor. Refer to the product webpages for thicknesses available for each colour

Colour:

- OCEANIA QFloat Toned™: Select Grey, Green or Bronze.
- OCEANIA QFloat High Performance Toned™: Select SuperGrey, SuperGreen or SuperBlue.
- OCEANIA EVantage™: Select Grey, Bronze, BlueGreen, Clear, SuperBlue or SuperGreen.

- OCEANIA EnergyTech™: Select from Clear, Grey or SuperGreen.
- OCEANIA SolTech™: Grey or Neutral.

Process: Heat strengthened or Toughened.

Code: e.g. G1, G2, designation code to locate the glass type. Repeat the table for each designation code.

Laminated solar control glass schedule

Generic term/application	Product	Thickness	Colour	Code
Solar control - Low E Laminate	OCEANIA ComfortPlus™			

OCEANIA produce an extensive range of energy management glasses which includes many combinations of glasses, interlayers, coatings and insulating cavities. Consult with OCEANIA for advice on the most appropriate product for a given application.

Maximum dimensions: Refer to the product webpages for sizes available for each product.

Thickness: Nominate a thickness if the glass is to be thicker than required by AS 1288 or applicable regulations or there are unusual conditions requiring detailed calculations for which the designer should be responsible. In other cases the determination of thickness to AS 1288 is usually within the competence of the glazing contractor. Select from the following:

- OCEANIA ComfortPlus™: Laminated: 6.38 mm to 12.38 mm.

Colour: Select from the following:

- OCEANIA ComfortPlus™: Clear, Grey, Neutral, Light Grey, Bronze or Translucent.

Code: e.g. G1, G2, designation code to locate the glass type. Repeat the table for each designation code.

Self-cleaning glass schedule

Generic term/application	Product	Thickness	Colour	Code
Self-cleaning	OCEANIA Renew™		Clear	

Product application: Self-cleaning, external applications only.

Thickness: Select from 3 mm, 6 mm or 6.38 mm.

Code: e.g. G1, G2, designation code to locate the glass type.

Mirror glass schedule

Generic term/application	Product	Thickness	Colour	Edge processing	Code
Mirror	OCEANIA MirraEcho™				
Mirror - laminated	OCEANIA MirrorShield™				
Mirror – vinyl safety backing	OCEANIA MirraTrust™:				

Thickness

- OCEANIA MirraEcho™: Select from 3 mm, 4 mm, 5 mm or 6 mm.
- OCEANIA MirrorShield™: 6.38 mm.
- OCEANIA MirraTrust™: Select from 4 mm or 6 mm.

Colour:

- OCEANIA MirraEcho™: Select from Clear, Bronze or Grey.
- OCEANIA MirrorShield™ Clear
- OCEANIA MirraTrust™: Clear and Grey with a vinyl safety backing.

Edge processing: e.g. Ground, pencil, polished pencil edge, bevelled. Specify rough arrissed if edges are concealed.

Code: e.g. G1, G2, designation code to locate the glass type.

REFERENCED DOCUMENTS

The following documents are incorporated into this worksection by reference:

AS 1288	2006	Glass in buildings - Selection and installation
AS/NZS 2208	1996	Safety glazing materials in buildings
AS/NZS 4667	2000	Quality requirements for cut-to-size and processed glass
AS/NZS 4668	2000	Glossary of terms used in the glass and glazing industry
BS 2571	1990	Specification for general-purpose flexible PVC compounds for moulding and extrusion
BS 4255		Rubber used in preformed gaskets for weather exclusion from buildings
BS 4255-1	1986	Specification for non-cellular gaskets
AAMA 701/702	2011	Voluntary specification for pile weatherstripping and replaceable fenestration weatherseals
ASTM C1048	2018	Standard specification for heat-strengthened and fully tempered flat glass
EN 14179		Glass in buildings - Heat soaking thermally toughened soda lime silicate safety glass
EN 14179-1	2016	Definition and description

The following documents are mentioned only in the *Guidance* text:

AS ISO 717		Acoustics - Rating of sound insulation in buildings and of building elements
AS/NZS ISO 717.1	2004	Airborne sound insulation
AS 2047	2014	Windows and external glazed doors in buildings
BCA Spec J1.5a	2019	Energy efficiency - Calculation of U-Value and solar admittance
NATSPEC DES 015	2019	NCC - BCA Volume One Energy efficiency provisions
NATSPEC DES 032	2018	Airborne sound insulation
NATSPEC GEN 006	2015	Product specifying and substitution
NATSPEC GEN 024	2015	Using NATSPEC selections schedules
NATSPEC PRO 006	2016	Glass types used in buildings
NATSPEC TR 01	2019	Specifying ESD
AAMA 800	2016	Voluntary specifications and test methods for sealants
NFRC 100	2017	Procedure for determining fenestration product U-factors
NFRC 200	2017	Procedure for determining fenestration product solar heat gain coefficient and visible transmittance at normal incidence