



LandsonGlass

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# Glass Processing & Capabilities Guide 2020

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# The future of glass supply

Landson Glass, a long established and highly trusted glass importer, has been servicing the glass, glazing and window industries in Australia and New Zealand for over 16 years. As a premium glass processing and manufacturing company, Landson Glass' extensive range of products feature widely throughout Australasia's residential and commercial buildings - from architect-designed dwellings to landmark commercial projects.



Australia Landson Glass (Qingdao) Co. LTD. Production | Capability Statement

## Technical Information

### Size Limitations

When specifying and ordering your glass requirements, please consider the following.

- ▶ Human impact and/or Australian/New Zealand Standard (AS/NZS) requirements must be considered when specifying glass thickness.
- ▶ Compliance with AS/NZS Standards is critical, glass selection must be within the minimum glass thickness for pane size.
- ▶ Limitations of product, raw glass sheet sizes are subject to availability and vary from supplier, the available sheet size may override the processing capabilities.
- ▶ When ordering large pieces of glass, consider whether the glass size can be processed within the capabilities of our processing equipment.
- ▶ Insulating Glass Units must be handled, stored and glazed in accordance with AS Standards 4666:2012.



Please contact your Account Manager if you require specific information on limitations and availability outside of the following.

The lists below are site specific for our manufacturing processes and the size limitations are based around our current machinery manufacturing capabilities.

If you require product or processing outside of these parameters, please contact your Account Manager for options.

### General

Dimensional tolerances for cut to size & processed glass   Ref. AS/NZS 4667:2000				
	Up to and including 6mm	Greater than 6mm, less than 15mm	15mm	19mm
Nominal thickness - Single	± 0.2mm	± 0.3mm	± 0.5mm	± 1mm
Length / Width - Single	± 2mm	± 3mm	± 3mm	± 3mm

Processing Capabilities	Size Limitations (mm)				Glass Thickness (mm)	
	Max	Max	Min	Min	Max	Min
Water jet cutting	4000	2000	300	300	19	4
CNC processing	4060	2300	300	300	19	4
Rough Arris	5000	3000	300	300	19	4
In line polishing	5000	3000	300	300	19	4

## Insulated Glass Units

IGU Capabilities	Size Limitations (mm)			
	Description	Max	Max	Min
IGU Insulating Glass Units (Double Press and gas filling by manual)	5000	2700	350	190
IGU Insulating Glass Units (With online gas filling)	3500	2700	350	190

IGU Spacer Bars	
Standard aluminium spacer bar (Black)	8mm, 10mm, 12mm, 14mm, 16mm, 18mm & 20mm
Stainless warm edge spacer bar (Black)	8mm, 10mm, 12mm, 14mm, 16mm, 18mm & 20mm

Aluminium is the default spacer bar, if the Stainless option is required please request at time of ordering. Additional charges will apply if the required spacer bar thickness is not shown, please contact your Account Manager for further options.

Parameters IGUs   AS Standards 4666:2012	Unit size (m <sup>2</sup> )	
	Unit up to 3.0m <sup>2</sup>	Unit greater than 3.0m <sup>2</sup>
Nominal thickness IGU	± 1mm	± 1.5mm
Length / Width	± 2mm	± 3mm
Sealant sightline tolerance	± 2mm	
Squareness	Maximum 3mm measured across the diagonal	
Bow in spacer	Maximum 3mm per metre of unit edge	
Misalignment of Glass	Maximum 2mm between the inner and outer pane	

## Toughened Glass

Toughened / Heat Strengthened Glass Capabilities	Size Limitations (mm)		
	Description	Max	Max
4mm Toughened   Includes Low E	2500	1300	340 on the diagonal
5mm Toughened   Includes Low E	3300	1800	340 on the diagonal
6mm to 8mm Toughened   Includes Low E	3600	2400	340 on the diagonal
10mm to 19mm Toughened   Includes Low E	5000	2700	340 on the diagonal

Heat Soaking Capabilities	Size Limitations (mm)		
	Description	Max	Max
4mm to 19mm Toughened	5000	2500	300 x 300

Screen Printed DecoGlass Capabilities	Size Limitations (mm)		
	Description	Max	Max
4mm Toughened	2500	1300	340 on the diagonal
5mm Toughened	3300	1800	340 on the diagonal
6mm to 8mm Toughened	3600	2400	340 on the diagonal
10mm to 19mm Toughened	5000	2700	340 on the diagonal

## Laminated Glass

Laminating Capabilities	Size Limitations (mm)				Glass Thickness (mm)	
	Description	Max	Max	Min	Min	Max
Decent PVB	5000	3000	300	300	80	5.38
Eastman Saflex® PVB	5000	3210	300	300	80	5.38
Eastman Vanceva® PVB	5000	2440	300	300	80	5.38
Eastman Acoustic® PVB	5000	2760	300	300	80	5.38
Eastman DG41-XC®/SG41-XC® PVB	5000	2760	300	300	80	5.38
Kuraray Sentry Glass	5000	2700	300	300	80	5.38

Toughened Laminated Safety Glass	Size Limitations (mm)		
Description	Max	Min	Min
4mm Toughened/Heat Strengthened	2500	1300	340 on the diagonal
5mm Toughened/Heat Strengthened	3300	1800	340 on the diagonal
6mm to 8mm Toughened/Heat Strengthened	3600	2400	340 on the diagonal
10mm to 19mm Toughened/Heat Strengthened	5000	2700	340 on the diagonal

Dimensional Tolerances Laminated	Length or Width Size	
Glass Ref. AS/NZS 4667:2000	L ≤ 3000mm	L > 3000mm
Length / Width	± 2mm	± 3mm
Squareness – measured across diagonals	D < 2500mm-max 3mm   D > 2500mm-max 4mm	
Misalignment of Glass	Maximum 2mm	

## Notes

### Toughened Glass\* Notes

Ref: AS/NZS 4667:2000

- ▶ **Toughened Glass & Distortion** - Can occur in toughened glass due to the heat treatment process and is called roller wave.
- ▶ The effect appears in the form of distortion bands 250mm–300mm apart horizontally or vertically. It is more noticeable if the bands are glazed vertically.
- ▶ Checking for roller wave can be done with a specialised roller wave measuring tool, or a rigid straight edge and feeler blade, limitations fluctuate between suppliers but should not exceed 0.15mm between the 300mm bands, this is to be measured at least 200mm away from the edge of the glass where up to 0.2mm is deemed acceptable.
- ▶ **Landson Glass has the distortion bands running horizontally as a standard setting.**

\* Landson Glass recommends the Heat Soaking of Toughened Glass. This value added process should be nominated at time of quotation request or order placement.

### Edge & Surface Quality

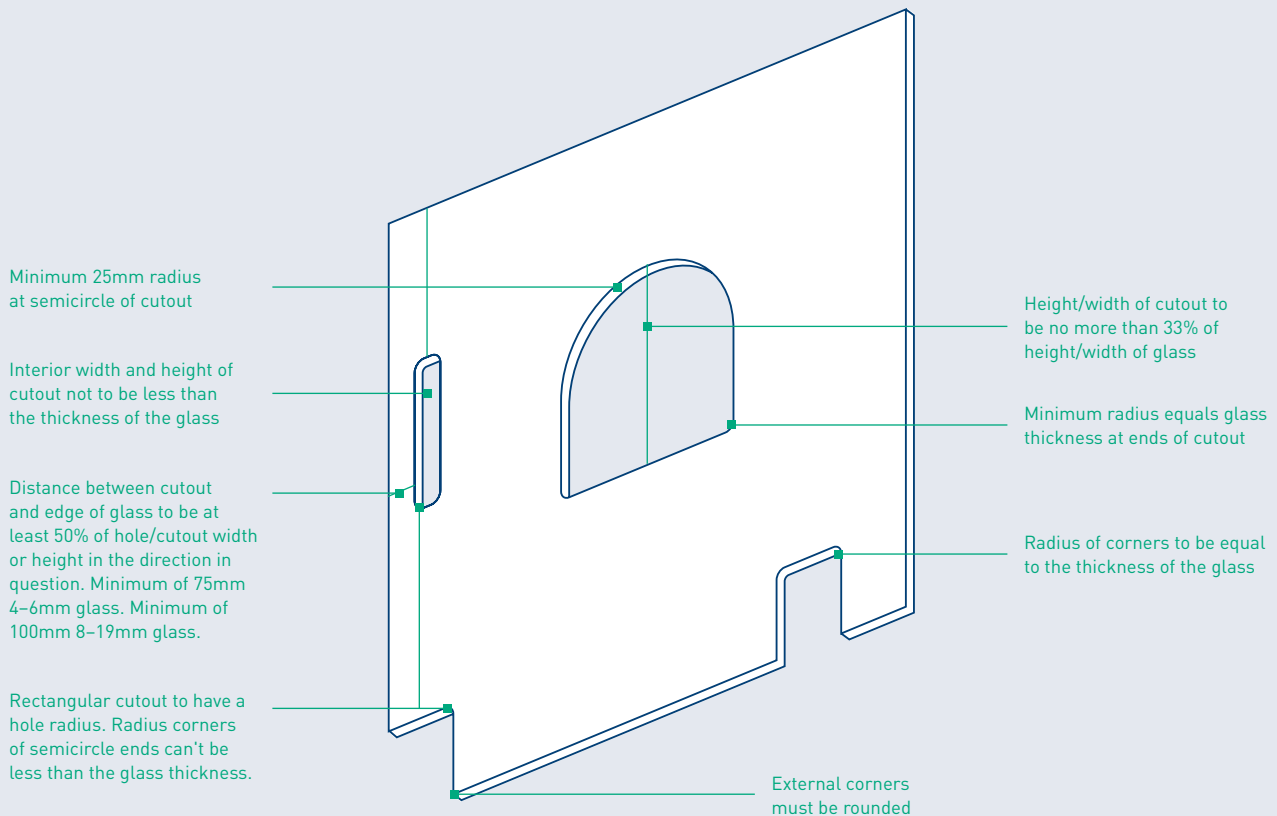
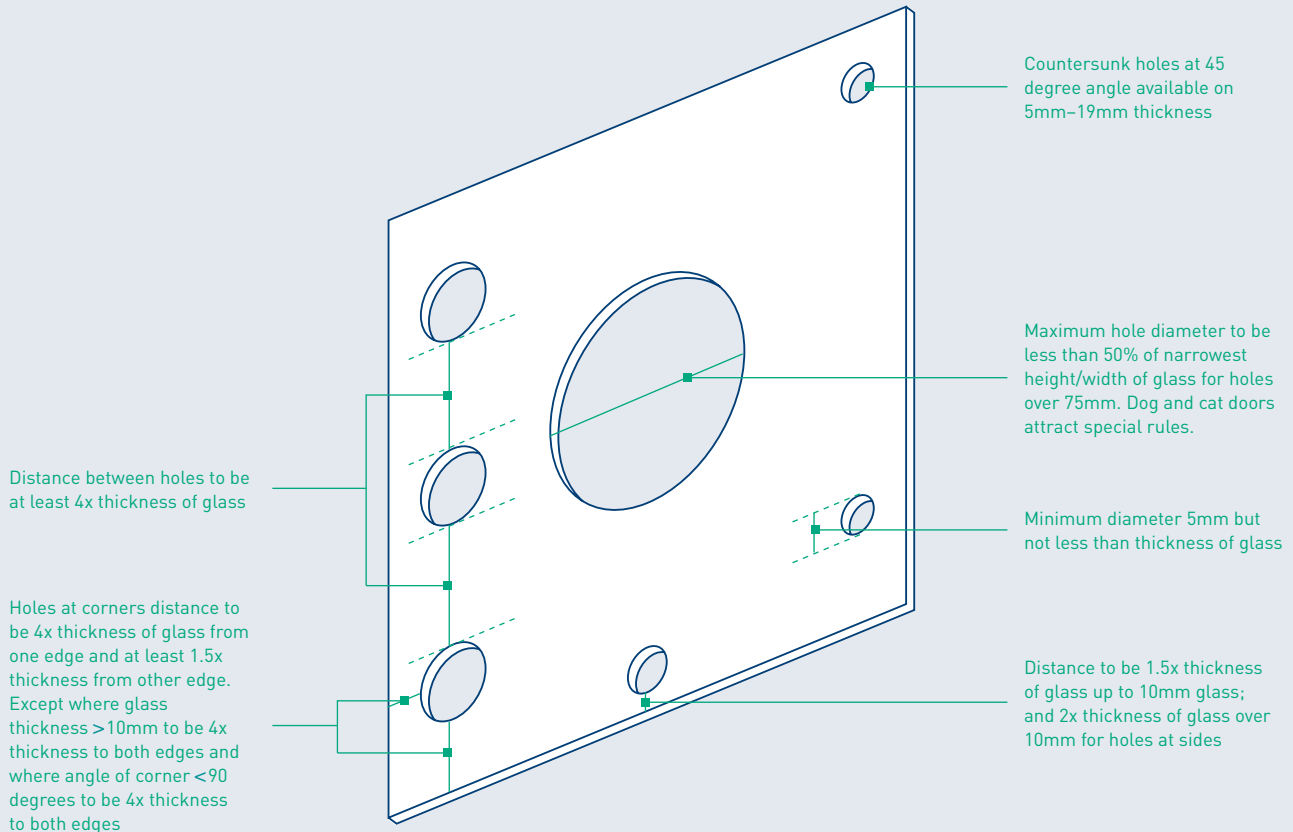
Ref: AS/NZS 4667:2000

#### Inspection procedure

The recommended procedure to determine if the glass quality is suitable/ acceptable as an industry standard.

1. Clean the glass with a proprietary glass cleaner.
2. Stand 3m from the glass and at 90 degrees (Square) to the pane of glass.
3. View the glass in normal daylight conditions and without direct sun on the glass. Imperfections should not be visible from the distance of 3m.
4. If any quality faults are evident. first try to clean the surfaces to ensure they cannot be removed.
5. Re-examine and if still evident, mark the faults and contact your supplier for available options.

The below Guide Lines for Toughened Glass summarise key dimensions and tolerances for holes and notches. Please refer any applications required outside these tolerances to your Account Manager for review.



The Australian and New Zealand-based Landson Glass team is one of the most experienced in the Southern Hemisphere. Our collective experience and continued investment in our manufacturing capability, mean our clients can Import with Confidence and peace of mind.

## Contact Us

For additional information about the Landson Glass product range, to discuss custom projects, or to request quotations, samples or details of local stockists, please call us today.

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**GLASS &  
WINDOW**  
ASSOCIATION  
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