



ASG
UNDERSTANDING GLASS

ENVIRONMENTAL PRODUCT
INFORMATION

Overview

ASG is an Australian architectural glass and materials supplier, grounded in the belief that materials optimises business performance and human potential. Whether it's a small urban house or a super tall skyscraper, we strive to make the everyday places more exhilarant, strong and stunning.

Our world class materials, shape the city and the way people work, meet, live, learn and heal. We bring together all design, planning and engineering disciplines through a unified process and composing materials that are robust, elegant and efficient.

Above all, ASG prioritizes human experience and delivers intriguing, future-oriented products for its clients.

Products

ASG's diverse product ranges from float glass, laminated glass, solar reflective coatings, low-e double glazing unit, ceramic frit application and other customised products.

Manufacturing process of glass is done by 'floating' on molten tin. Initially, raw materials are transported into a large furnace to be melted at approximately 1500 °C. Once physically transformed, the molten glass is then transported through the delivery canal and floats onto an enclosed molten tin around 1100 °C, where the glass is gradually uniformed and smoothed, before being cooled and ready to be cut.

ASG's float glass selection conforms to a multitude of international standards. These include the Australian Standard AS/NZS 4667, American Standard ASTM C1036-5, British Standard BS952, Japanese Standard JISR3202, and Chinese standard GB11614. Our international compliance ensures the monolithic glass you are receiving are of the highest quality, which can be used wherever that is required.

Recycling

Recycling is not a choice, but a necessity. The exhaustion of the earth's raw materials has been an avid problem for many years. Our natural resources of oil, gas, minerals and metals are being depleted so quickly that it is uncertain how much more we can extract from the earth. Recycling is part of the solution to this issue. It is worth separating and collecting any materials that we can in order to recycle them. The same applies to waste float glass.

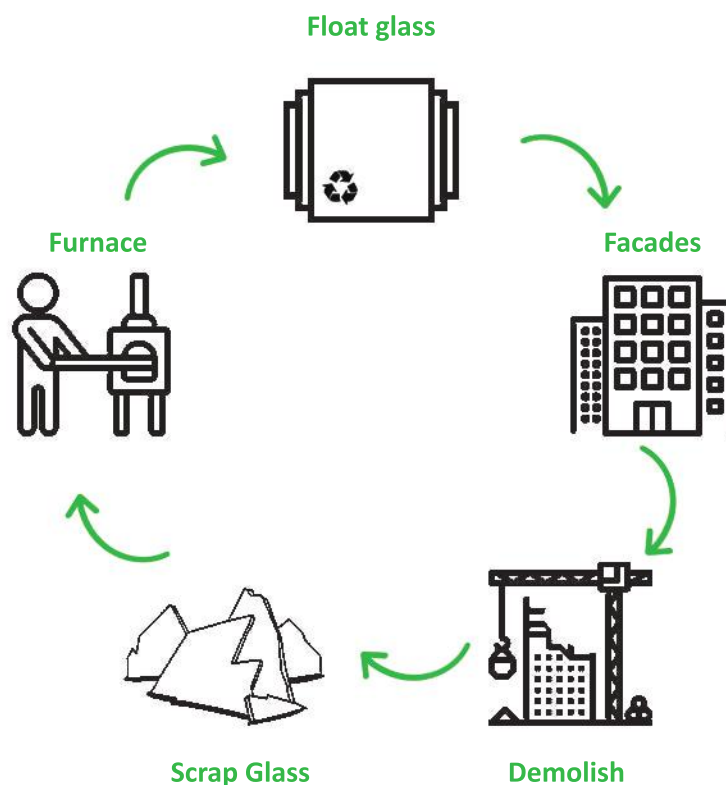


Diagram 1.1 Float Glass (Recycle) Lifecycle

Glass is 100% recyclable and can be entirely re-melted in a glass furnace to produce new glass products. Therefore, the use of recycled glass avoids additional energy use as well as CO₂ emissions. Recycled glass requires less energy to melt than carbonated raw materials and preserves natural resources by avoiding processes related with raw material extraction and transformation.

Recycled content Declaration

Architectural Glass Solutions (ASG) leads an environmental approach that encourages recycling practice. One of its ambition is to develop new products with better environmental performances throughout their lifetime, including the recycled stage.

ASG Glass products contains 85% recycled raw material for post-consumer content, coming from the manufacturing line and from fabrication sites, external glass manufacturers. And Pre-consumer content would be 1% of non-recycled raw material content by weight.

ASG Glass products uses only recyclable glass from other well-controlled glass process. ASG does not use post- consumer recycled glass because the quality of that glass available on the market does not meet the highly demanding quality standards for float glass.

Element	SiO ₂	CaO	MgO	Al ₂ O ₃	Fe ₂ O ₃	R ₂ O
Percentage range	70~73	7~12	1.0~4.5	0.2~2	0.08~0.14	13~15

Table 1.1 Float Glass ingredients

Our 6-Star Green Star Projects

150+ Total Green Star rating projects across Australia

- 1 William Street, Brisbane
- 825 Bourke St (the Gauge)
- 48-50 Martin Place
- 85 Castlereagh St, Sydney NSW (AGP - Westfield CBD)
- C4 Barangaroo
- 480 Queen St, Brisbane QLD
- Nishi Commercial

