Topglass® GC Product Technical Statement

Document no:	PTS -TGGC-001
Issue	1.1
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Date:	September 2026

1. Product Overview

Topglass® is a premium Glass Fibre Reinforced Polyester (GRP) translucent roofing and cladding system manufactured by Alsynite One NZ Ltd for use in commercial, industrial and agricultural buildings where natural daylight, durability and long-term weather performance are required.

2. Product Range

Topglass® GC is available in a range of products to suit a variety of daylighting and cladding applications.

Product	Description/Typical Application
Topglass® GC	General purpose GRP translucent roofing and wall cladding sheet suitable for commercial, industrial and agricultural applications.
Topglass® GC SPF4	Solar control GRP sheeting provides reduced solar heat gain while maintaining natural daylight.
Topglass® GC SPF8	Enhanced solar control GRP sheeting provides increased solar heat reduction for demanding environments.
Topglass® GC FR50	Fire performance GRP sheeting for applications requiring enhanced fire performance characteristics.
Topclad® GC	General purpose translucent GRP sheet designed for vertical wall cladding applications.
TwinSkin® System	Insulated daylighting system incorporating Topglass® sheeting within built-up roof constructions.

Note: Topglass® GC Ultra Safe is covered under a separate Product Technical Statement due to its enhanced structural performance characteristics and supporting engineering assessment.

3. Typical Applications

Topglass® products are suitable for a wide range of roofing and cladding applications, including:

- Industrial buildings
- Commercial buildings
- Warehouses
- Agricultural buildings
- Manufacturing facilities
- Canopies
- Vertical wall glazing
- Daylighting applications

4. Sources of Information and Supporting Evidence

This Product Technical Statement is supported by independent testing, manufacturer quality assurance and the technical documents listed below:

- Independent laboratory testing
- Manufacturer quality assurance
- Applicable New Zealand Standards
- BRANZ fire testing
- VIPAC testing (where applicable)
- Product manufacturing specifications
- Current Alsynite technical documentation

Topglass® products are manufactured in accordance with the applicable requirements of AS/NZS 4256.3:2006 (R2018) – Plastic Roof and Wall Cladding Materials – Glass Fibre Reinforced Polyester (GRP).

This Product Technical Statement should be read in conjunction with the current:

- Building Product Information Requirements (BPIR)
- Installation Guide
- Maintenance Guide
- Product Warranty

5. Product Performance

Topglass® products are designed to provide:

- Weatherproof Performance
- Natural Daylighting Properties
- Long-term Durability
- Corrosion Resistance
- UV Resistance

Product performance is dependent on correct design, installation and ongoing maintenance in accordance with Alsynite technical documentation.

6. Physical Properties

Topglass® products are manufactured from Glass Fibre Reinforced Polyester (GRP) and are available in a range of profiles, product weights and light transmission options to suit commercial, industrial and agricultural applications.

Refer to the current Popular Profiles Sheet for profiles, dimensions and product options.

7. Mechanical Properties

Mechanical performance has been established through independent testing and manufacturer quality assurance in accordance with applicable standards.

Engineering advice relating to maintenance access, concentrated loads and trafficability is outside the scope of this Product Technical Statement. Refer to the separate Topglass® GC Ultra Safe Product Technical Statement where these performance characteristics are required.

8. Fire Performance

Topglass® GC FR50 products have been independently assessed by BRANZ for fire performance in accordance with AS/NZS 3837 and ISO 5660.

Testing confirmed a Group 3 classification in accordance with the New Zealand Building Code for the following products:

- Topglass® GC 50 FR
- Topglass® GC SPF4 50 FR

Refer to BRANZ Group Number Classification Report FH5701-01-03-C1 for further information.

9. New Zealand Building Code Compliance

Compliance with the relevant performance requirements of the New Zealand Building Code is summarised below. Detailed compliance information is provided in the current Topglass® Building Product Information Requirements (BPIR).

NZBC Clause	Compliance
B1 Structure	B1.3.1, B1.3.2 (a, b, j)
B2 Durability	B2.3.1 (b)
C3 Protection from Fire	C2- C6 Applicable performance criteria
E2 External Moisture	E2.3.1, E2.3.2

10. Limitations of Use

Topglass® products shall be:

- Designed by suitably qualified persons where required.
- Installed in accordance with the current Alsynite Installation Guide.
- Used within the published design limitations.
- Maintained in accordance with the Alsynite Maintenance Guide.

11. Referenced Standards and Supporting Documents

The following standards and supporting documents are referenced within this Product Technical Statement and should be read in conjunction with the current Topglass® technical documentation.

REFERENCE	DESCRIPTION
New Zealand Building Code (NZBC)	Performance requirements applicable to Topglass® products.
AS/NZS 4256.3:2006 (R2018)	Plastic roof and wall cladding materials – Glass Fibre Reinforced Polyester (GRP).
AS/NZS 1562.3:2006	Design and installation of plastic roof and wall cladding.
Topglass® BPIR	Building Product Information Requirements (BPIR).
Topglass® Installation Guide	Current installation requirements for Topglass® products.
Topglass® Maintenance Guide	Current maintenance requirements for Topglass® products.
Topglass® Product Warranty	Manufacturer's warranty conditions, exclusions and coverage.
BRANZ Fire Report	Independent fire performance assessment (where applicable).
BRANZ Physical Properties Report	Independent verification of physical properties.
VIPAC Mechanical Properties Report	Independent mechanical performance testing.

12. Disclaimer

This Product Technical Statement has been prepared to provide general technical information relating to Topglass® products. It should be read in conjunction with the current BPIR, Installation Guide, Maintenance Guide, Product Warranty and other Alsynite technical documentation.

Project-specific design, engineering and compliance requirements remain the responsibility of the designer and relevant project consultants.

This Product Technical Statement is subject to periodic review. Users should ensure they are referring to the latest version available from Alsynite One NZ Ltd.