



## Introduction

Topglass® FR50 is designed and supplied as a fire and smoke retardant natural lighting system for use in commercial and industrial buildings. This type of resin system alters the flammability point of the sheeting; however it should be noted Alsynite One supplies all GRP sheeting in this brochure as natural lighting/cladding products only.

**NEW - 150 Micron Surface Protection.** All Topglass® Gel-Coat products with EXO-SET GC now incorporate an additional 20 Micron UV Stabilized Film on top of the GC resin to further increase the surface protection of the sheeting.

## Key Benefits

- Reinforced polyester fire retardant sheeting that has been specifically formulated using fire retardant materials for use in commercial building applications and educational institutions.
- Glass reinforced polyester fire retardant sheeting that can be considered into building designs that specifically require reduced ignitability, flame propagation and heat and smoke release over conventional resin systems.
  - Combustible areas with high fire risk
  - Where egress from a building in the event of fire may be restrictive

## Applications

- Schools and educational institutions
- Public assembly areas

## Special Applications

BRANZ test report FH 5701 August 2020 contained in this literature refers to Topglass® FR50. Contact Alsynite One NZ Ltd for advice on more advanced fire and smoke retardant resin systems.

## Surface Coatings

Topglass® FR50 is supplied with the Alsynite One's 130 micron\* Exo-Set 206 SPF enhanced Gelcoat system. Topglass® FR50 is supplied as a translucent roofing product and is now available and offers increased solar values as can be experienced with Topglass® GC Opal, the Opal Enhancement stabilises the products appearance offering increased weather surface stability in colour retention than previously experienced. 150 Micron Total protection.

## Safety

To comply with the requirements of AS 1562.3: 2006 Part 3 Plastic, translucent roofing products are classified as "Brittle Roofing" and therefore not suitable to support foot traffic. With exception of Topglass® GC Ultra-Safe. Safety mesh should be installed under all translucent roofing.

## Specification

The Translucent roofing shall be Topglass® FR50 reinforced Polyester roof sheeting as manufactured by Alsynite One NZ Ltd and is JAS-ANZ Certified. The sheeting shall be measured in g/m<sup>2</sup> or mm (sheet thickness) and manufactured to conform to the nominated roofing and cladding profile. Installation shall be carried out in accordance with the requirements of AS 1562.3: 2006.

## Profiles

Topglass® FR50 is available ex stock in a limited number of roofing profiles.

## Test Reports

BRANZ Test Report Alsynite One  
FH14194-01  
September 2021  
NZBC Group 3

\* Nominal Thickness 130 Micron.

## WARRANTY

Topglass® FR50 is supported by a comprehensive 25 year warranty and a 20 year light transmission warranty. For written project warranties, contact Alsynite One NZ Ltd.

