



## 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.

Please refer Page 3 Venting of Fire, for alternative mechanical smoke and heat venting systems.

## Key Benefits

- Topglass® FR50 is glass reinforced polyester fire retardant sheeting that has been specifically formulated using fire retardant materials for use in commercial building applications and educational institutions.
- Topglass® FR50 is 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.

## Applications

- Schools and educational institutions;
- Public assembly areas;
- Combustible areas with high fire risk;
- Where egress from a building in the event of fire may be restrictive.

## Special Applications

BRANZ test report FH 4937 October 2012 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 and Topglass® FR60 are now both supplied with the Alsynite One 130 micron\* Exo-Set 206 SPF enhanced Gelcoat system. Both products are supplied as translucent roofing products and are now available offering increased solar values as can be experienced with Topglass® GC SPF4 (see Topglass® SPF pg 10) the SPF enhancement stabilises the products appearance offering increased weather surface stability in colour retention than previously experienced.

## Colours

The standard colour of Topglass® GC FR 50 & FR 60 is milky yellow/clear. SPF pigment is added to all sheets manufactured to unify the colour tint to a blue/purple colour.

## 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 (see page 12). 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 to comply with AS 4256.3: 2006 JAS-ANZ Certification Licence No. 2349. 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 (refer to Technical Information, page 24). Installation shall be carried out in accordance with the requirements of AS 1562.3: 2006, Topglass® technical literature and Alsynite One NZ Technical Catalogue.

## Profiles

Topglass® FR50 is available ex stock in a limited number of roofing profiles. For further information, contact Alsynite One NZ Ltd.

## Test Reports

BRANZ test report **Topglass FR50**  
FH 4937 October 2012  
NZBC Group number 3

BRANZ test report **Topglass FR60**  
FI 5428-TT February 2013  
NZBC Group number 2

BRANZ Test Report **Alsynite One Industrial Polycarbonate FR [ 1-S ] Premium Grade**  
FI 5603-TT  
November 2014  
NZBC Group number 1-S

## 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.

