

# FGW Corporation Pty Ltd Specifications

- Product** : **TOPGLASS FR 50 - GC**  
SMOKE REDUCED TRANSLUCENT SHEETING
- General** : The translucent sheeting is classified Smoke Reduced Grade and is of type FGW Topglass GC
- Profile** : Architect to select
- Nominal Weight** : 2400 gsm/M2  
(Alternate weight to special order)
- Colour** : Opal  
(All other colours upon request)
- Resin System** : Especially formulated Smoke Reduced Grade Type FR 50 batch blend with enhancements & incorporating FGW Ltd proprietary additives.
- Cure Level** : Residual Styrene level less than 2%  
As measured by Gas Liquid Chromatograph
- Reinforcement** : Glass Roving , minimum 22%
- Surface Coating** : Weather surface is 100 um GC surface coating , Non weather surface (underside) is nominal 20 micron polyester film

**Tests based on 2400g/m2 sheet**

Materials Properties	Standard	Mean Value
<b>Barcol Hardness</b>	: ASTM 2583	Greater than 40
<b>Glass Content</b>	: AS/NZS 4257.5	Greater than 22%
<b>Impact Strength</b>	: AS/NZS 4257.6	4.3 J
<b>Impact Resistance</b>	: Meets AS/NZS 4256.3:1994	
<b>Tensile Strength</b>	: ASTM D638	Greater than 41 Mpa
<b>Flexural Strength</b>	: ASTM D790	150 Mpa (typical)
<b>Flexural Modulus</b>	: ASTM D790	6.0 Gpa (Typical)
<b>Heat Distortion Temperature ©</b>	: ASTM C177-81	180© to 200©
<b>Operating Temp ©</b>	:	minus 40© to +110©

**Performance**

AS/NZS 3837:1998 Method of test for heat and smoke release rates for materials and products using oxygen consumption calorimetre.

	<b>Mean</b>	<b>Standard Error</b>
<b>Heat Release</b>	: 97.1 kw/m2	
<b>Extinction Area</b>	: 654.8 m2/kg	
<b>Exhaust Flow Rate</b>	: 24 l/s	
<b>Average Heat</b>	: 264.6 kw/m2	
<b>Release Rate</b>	: 172 kw/m2	
<b>Total Heat Release</b>	: 33.5 MJ/m2	
<b>Average effective heat of combustion</b>	: 19.7 MJ/kg	
<b>Complete Test Report contact FGW Corporation Pty Ltd.</b>		

Simultaneous determination of ignitability, flame propagation, heat release and smoke release of non fire retardant GRP translucent roofing.

**Diffused Light Transmission** : Opal  
: 36%.

**Solar Heat Gain** : 227 w/m2

**Warranty** : 25 Year (Written project warranty supplied)

Allen Davidson  
**MANAGING DIRECTOR**  
FGW Corporation Pty Ltd