

Product	: TOPGLASS 50 FR Plus	GC
	GRP SHEETING (FGW Proprietary resin system)	
General	: The translucent sheeting is classified as Fire Retardant (FR) 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 Fire Retardant Grade Type 50 FR Plus batch blended with UV604ETPF enhancement & 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 manufactured by Interplastic Corp USA , Non weather surface (underside) is nominal 20 micron polyester film	
Tests based on 2400g/m2 sheet		
Materials Properties	Standard	Mean Value
Barcol Hardness	: ASTM 2583	Greater than 40
Glass Content	: AS/NZS 4257.5	Greater than 22%
Impact Strength	: AS/NZS 4257.6	4.3 J
Impact Resistance	: Meets AS/NZS 4256.3:1994	
Tensile Strength	: ASTM D638	Greater than 41 Mpa
Flexural Strength	: ASTM D790	150 Mpa (typical)
Flexural Modulus	: ASTM D790	6.0 Gpa (Typical)
Heat Distortion Temperature ©	: ASTM C177-81	180© to 200©
Operating Temp ©	:	minus 40© to +110©

Fire Performance			
When tested in accordance with AS/NZS 1530.3 the following indices were obtained.			
	Mean		Standard Error
Ignition Time	: 6.65 min		0.19.
Flame Propagation Time	: 20.3 s		1.8.
Heat Release Integral	: 374 kJ/m ²		23.0.
Smoke Release, log d	: 0.1696 /m		0.0195.
Optical density, d	: 1.4904		
Ignitability Index	: 13		Range 0 - 20
Spread of Flame Index	: 9		Range 0 - 10
Heat Evolved Index	: 10		Range 0 - 10
Smoke Development Index	: 8		Range 0 - 10
Simultaneous determination of ignitability, flame propagation, heat release and smoke release of non fire retardant GRP translucent roofing.			
Diffused Light Transmission		Ultra White	
	: 36%.		
Solar Heat Gain	: 227 w/m ²		
Warranty	: 25 Year (Written project warranty supplied)		
Allen Davidson			
MANAGING DIRECTOR			
FGW Corporation Pty Ltd			