ALSYNITE ONE

Topglass® GC FR50

Fire Retardant Sheeting

Topglass® GC/Topclad™ GC FR50

BRANZ tested to ISO 5660; AS/NZS 3837 cone calorimeter testing in accordance with NZBC verification method C/ VM2 appendix A; BRANZ Type tested ISO 9705 room test; Building Code (NZBC) Group 3 classification.

MANUFACTURED WITH ZERO BROMINE

Topglass® GC / Topclad™ GC Fire Rated (FR)
Regulations and Products Explained

Changes to the building code Clauses C1-C6 Protection from fire have meant significant changes to the fire safety specifications for interior and exterior surface linings.

Acceptable Solutions – Verification Method

The new acceptable solutions have been published as stand-alone documents, one for each risk group. These are used to group together occupancies or buildings with a similar fire risk. Each acceptable solution has the same format and section numbering to aid navigation, but only contains requirements relevant to the particular risk group. The group requirements are in table 4.1 of each document. Most conventionally designed buildings can be specified using the acceptable solutions, however where more complex buildings are proposed the new verification method [C/VM2] can be utilised. NZBC Group numbers. These new regulations that became mandatory in April 2013 now mean only Building Code (NZBC) group numbers apply to fire properties of surface linings. Group numbers are scaled from one to four (worst case). Therefore a group one rating would contribute very little to flame spread, whereas a group 4 rating would exhibit a rapid flame spread. Alsynite FR Products. Alsynite Topglass® GC/Topclad™ GC FR50 has been extensively tested using the cone calorimeter ISO 5660 and AS/NZS 3837 test method and also the full scale ISO 9705 room test. This extensive testing utilises a gas burner exposing the sheeting to 100kw for 10 minutes, and then 300kw for a further 10 minutes until flashover is reached. Topglass® GC FR50 achieves a Building Code (NZBC) group number 3 in both these tests. Topglass® GC FR50 has also recently been tested to BS 476.

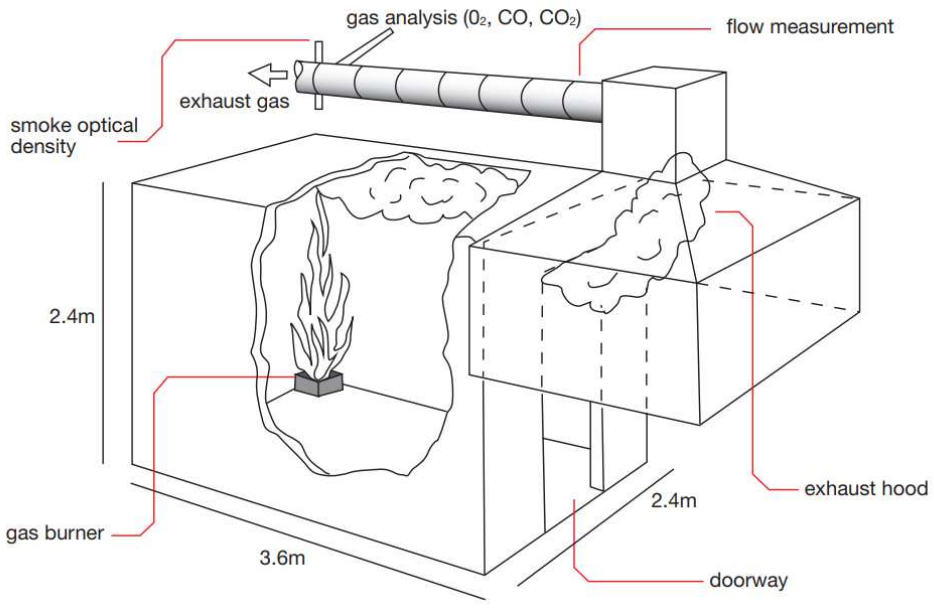
Both Topglass® GC FR50 does not however achieve an [S] in conjunction with the group number. This is a significant factor, as the average specific extinction area [ASEA] requires smoke levels to be no more than 250m²/kg. Only products that carry the group number in conjunction with the [S] are therefore acceptable in these areas. Refer to Alsynite Industrial Polycarbonate FR 1-S for this.

Alsynite fire rated sheeting is available in all grades, profiles and lengths.

Care must be exercised when ordering to ensure the correct product meets the design criteria. Please contact Alsynite if any or further clarification is required.

The full-scale ISO 9705 Room Test

The gas burner exposes the Topclad™ 5-rib 3050gsm sheeting to 100kw for 10 minutes, and then 300kw for a further 10 minutes until flashover is reached.



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