

FRP: Standards & Certificates

ØI-RD-PS-EN-0006

Øglænd System has carried out extensive testing on our FRP product range. The following information represents some of this testing. If you require a particular standard that has not been indicated here, please contact us for more support.



-BS 476 PART 7 CLASS 1

This is a vertical flame spread test. Sample material is exposed to a high intensity flame for a predetermined amount of time. The heat source is then removed and the test begins, after 10 minutes the flame spread and rate is measured. All of our resin systems achieve the highest level possible.



ASTM E84

Tests the rate of flame spread and smoke emissions of materials. To test this sample material is placed in a test box with a gas burner at one end and a smoke measurement device at the exhaust end. Air circulation is provided to assist the spread of the flame. Our FRP material received the highest level of certification in this test.



ASTM D257

This test measures the volume and surface resistivity of a material. Our material can be formulated to obtain a reading of 10^5 to 10^9 Ohm. We may lower the Ohm measurement (make the material more conductive) and increase the anti-static properties by adding carbon to our resin mix. Careful consideration must be given to this process as a conductive product will require grounding, thus increasing the cost and time of installation.



ASTM D635

Standard test method for measuring the rate of burning and duration of burning in plastic products. Our FRP product achieved UL94 HB classification requirements.



ASTM D792G

Standard test for measurement of density. All of our resins are extremely lightweight, with densities ranging from 1699 kg/m³ to 1965 kg/m³. This offers massive advantages over stainless steel products which have a density approaching 8000 kg/m³. This reduces the cost of shipping and makes installations easier.



ASTM G154 2000a

Standard weathering test for non-metallic materials. It exposes the material to a high intensity ultraviolet light source. Thanks to our resin rich surface our material is highly resistant to ultraviolet light and is perfect for outdoor applications (it does not rust).



ASTM B-117

Tests a materials ability to resist the corrosive effect of salt water. All of our resins saw zero deformation; FRP does not corrode or rust, making it the perfect material for use in areas exposed to sea spray.



IEC 60068-2-75

Is an impact test using an impact hammer. The material saw no measurable damage up to an impact of 10 Joules.



IEC 60754-1

A simple test that ensures the material has zero halogen content. Halogens are a toxic group of elements on the periodic table that are sometimes used as flame retardants. All of our products are halogen free.



GOST 15150-69

Is a Russian standardised test to analyse a materials reaction to low operating temperatures. FRP retains its material properties well in extreme cold. This test concluded our material could operate in temperatures as low as -60°C.