



# G.R.P. Kiosk

## Product Specification



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## Overview

J.L.M. Composites Limited specializes in manufacturing high-quality GRP (Glass Reinforced Plastic) kiosks designed for the water and electrical utility industries. These kiosks are engineered to withstand harsh environmental conditions while providing secure and durable housing for critical equipment.

## General Features

- **Material Composition:** Manufactured using high-grade GRP materials reinforced with glassfiber and polyester resins.
- **Durability:** Resistant to corrosion, UV radiation, and extreme weather conditions.
- **Thermal Insulation:** Integrated insulation ensures stable internal temperatures.
- **Customization:** Available in a variety of sizes, colors, and configurations to meet specific client requirements.

## Environmental Resistance

- **UV Protection:** Coated with UV-resistant gelcoat.
- **Ingress Protection (IP Rating):** IP55 to IP67 depending on configuration.
- **Temperature Range:** -20°C to +70°C.

## Warranty and Support

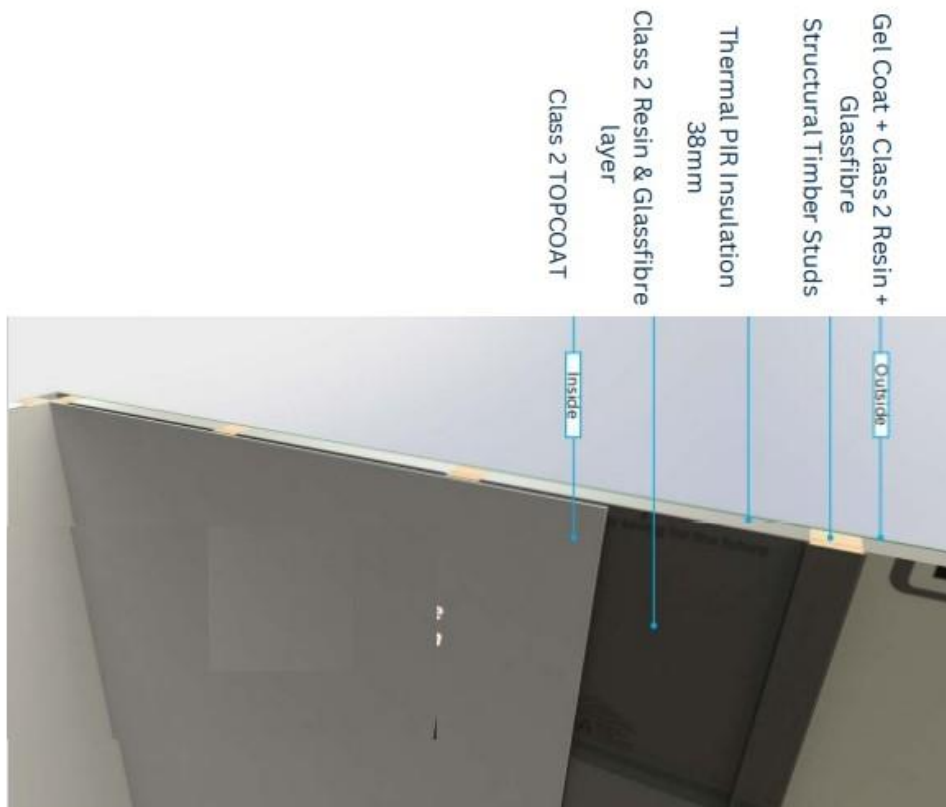
**Warranty Period:** 1 years manufacturers warranty

**Support Services:** Comprehensive technical support and on-site installation assistance available.

## Technical Specifications

### Wall Construction

- **Gelcoat:** Isophthalic gel applied at a rate not less than 0.8 kg/m<sup>2</sup>.
- **Laminate Composition:** 450 g/m<sup>2</sup> chopped strand mat wet with polyester orthophthalic resin, adhering to BS 476 Part 7 for spread of flames with a resin-to-mat ratio not exceeding 2.8:1.
- **Core:** 40mm polyisocyanurate foam core, density 20-25 kg/m<sup>3</sup>, compliant with BS 476 Part 7 Class 2, encapsulated within the lamination to achieve a total wall thickness of approximately 50mm.
- **Reinforcement:** Vertical timber battens at appropriate centers, encapsulated with additional 450 g/m<sup>2</sup> chopped strand mat layers.
- **Base Flange Reinforcement:** 50 x 50 x 3mm steel angle encapsulated along the full internal base flange.
- **Internal Surfacing:** Coated with a glaze coat applied at a rate not less than 0.8 kg/m<sup>2</sup>.



## Door Construction

- **Core and Frame:** 30mm polyisocyanurate foam core with 19mm timber frame.
- **Hinges:** 100mm stainless steel hinges to BS 7352:1990 Class 13, fixed with A2 stainless steel fasteners.
- **Wind Stops:** Heavy-duty overhead aluminum door restraint with lock-open function.
- **Door Seal:** 12mm x 25mm medium-density closed-cell PVC foam for water sealing.
- **Locks:** Spring-loaded catches on the interior of non-locking doors; stainless steel handle fitted to a 3-point internal locking system compatible with padlocks.

## Ventilation

- **Through Ventilation:** Provided by soffit ventilation with adequate spacing between on the kiosk side walls. Standard Kiosks are finished with 215mm x 215mm aluminium vents (external) completed with hit and miss vents (internal).

## Backboard

- **Material:** 12mm plywood finished with Class 2 resin to act as a varnish.
- **Mounting:** Fixed securely to the back wall of the enclosure.



## Generator Flap

- **Functionality:** Allows cable access.
- **Security:** Secured in the closed position with a spring-loaded internal catch.

## Design Options

- **Standard Models:**
  - Single-door kiosks
  - Double-door kiosks
  - Bi Fold Door Kiosk
  - Roller Door Kiosks
  - Additional vents and bespoke size of vents
  -
- **Custom Sizes:** Tailored to specific dimensions and configurations.

### **Finishes**

- Smooth gloss gelcoat finish for aesthetics and additional weather protection.
- Optional textured finishes available.

### **Accessories**

- **Locking Mechanisms:** Multi-point locking systems for enhanced security.
- **Ventilation:** Passive ventilation systems.
- **Shelving:** Internal shelving or racking for equipment organization.
- **Lighting:** Light boards available to allow for light fixings
- **Diving Wall:** To allow a kiosk to be split between multiple compartments
- **Lock Box:** Stainless steel lockbox available to place over handle

### **Installation Guidelines**

- **Foundation Requirements:** Ensure level and stable concrete foundation prior to installation.
- **Fixing Methods:** Secure using pre-drilled mounting points or optional anchor kits.

## **Compliance and Standards**

- **Quality Assurance:** ISO 9001 certified manufacturing process.
  
- **Further testing completed**
  - BS EN 1363-1:2020 for fire resistance testing standards.
  - LPCB 1175 Part 7 for security-rated enclosures, listed in the Red Book.

# **APPENDIX**



## Material Data Sheets

[Class 2 Resin](#)

[Rovin](#)

[Catalyst](#)

[Gelcoat \(colour\)](#)

[Top Coats \(white internal\)](#)

[Plywood \(backboard\)](#)

## Fixings

[Handles](#)

[Hinges](#)

[Cam stay \(3 point locking\)](#)

## Compliance and standards

[ISO 9001](#)

[LPCB 1175](#)

[BS EN1363-1:2020](#)