

GRC — Specification Compliance Matrix

Glass Fiber Reinforced Concrete — Technical Reference

The table below demonstrates the Supplier's compliance with the key requirements of the project specification. The material is manufactured in accordance with local standards equivalent to GOST standards. Where required, engineering justification of equivalence will be provided, or laboratory testing will be carried out, for which a corresponding allowance is included in the proposal.

Specification Requirement	Supplier Compliance Confirmation	Status
1 — SS316 anchors and fixings	Embedded parts, brackets, and fixings are manufactured from structural steel with a galvanic anti-corrosion coating, or from A4 (SS316) stainless steel, depending on project requirements. Fixings are supplied by the company "FIXAR".	Equivalent
2 — Flexural strength (LOP / MOR)	GRC panels are manufactured in accordance with GRCA recommendations. Strength characteristics are confirmed by testing to ASTM C947 / EN 1170 and meet project requirements. LOP > 7 MPa, MOR > 18 MPa.	Equivalent
3 — Freeze-thaw resistance F150–F300	No visible cracking after design strength is reached; results confirmed by independent testing.	Equivalent (ASTM testing as required)
4 — Material density	GRC density not less than 1,950 kg/m ³ .	Compliant
5 — Glass fiber	—	Equivalent
6 — Surface finish	Finish (sandblasted, acid-etched, polished, or smooth) is executed in accordance with the approved architectural sample.	Optional
7 — Curing	Panels undergo controlled moist curing under production conditions in accordance with the manufacturer's process regime; concrete is cured for 24 hours at 30°C ± 5°C.	Compliant
8 — Fire resistance	Material is classified as NG (non-combustible) without additional coating.	Compliant
10 — Mock-ups	Surface samples and, where required, a functional mock-up are produced prior to the start of production.	Compliant
11 — Hydrophobic treatment	Upon project request, panels can be supplied with hydrophobic treatment to increase resistance to moisture and staining.	Optional
12 — Installer: minimum 10 years' experience	Installation teams have more than 10 years of experience working with GRC/UHPC, and undergo manufacturer training and supervision.	Compliant
11 — 10-year warranty	Supplier provides a 10-year warranty on works from the date of substantial project completion.	Compliant

Specification Requirement	Supplier Compliance Confirmation	Status
12 — Delivery and storage	Panels are transported on unpainted cushioning supports; markings remain visible; delivery distance approximately 30 km using own transport.	Compliant

This compliance matrix is provided for architectural and engineering reference. For project-specific technical consultation or laboratory test reports, please contact SALBEN Group's engineering team.