

GFRC Architectural Facade Panels Line

Complete Turnkey Business Proposal



Made-in-China supplier reference: real gfrc architectural facade panels line equipment.

approved sample market gate	defined formats launch scope	performance test release gate	batch records traceability
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Prepared for investment planning in Afghanistan and regional export markets. Final specifications, pricing, civil works, and utility loads require supplier quotation and site survey.

Executive Summary

Produces glass-fibre-reinforced concrete architectural panels through cement/slurry batching, alkali-resistant glass-fibre spraying or premix casting, moulding, controlled cure, demoulding, finishing, insert placement and structural/visual inspection.

Why this project fits Afghanistan

- Approve a physical sample and installation system.
- Launch only the selected formats and finishes.
- Keep material and quality records for each batch.

Sanaatchi delivery scope

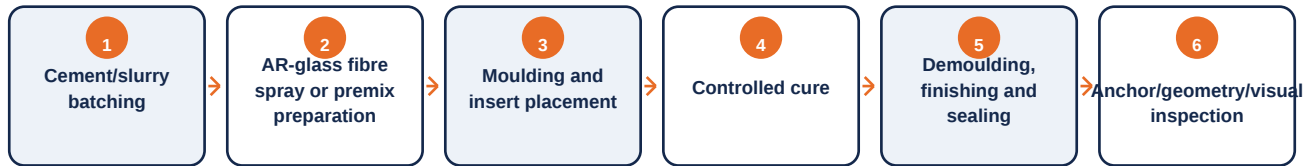
- Factory setup planning, supplier pre-qualification, and technical comparison
- Complete production-line and individual equipment supply
- Factory layout, utilities, civil-work coordination, installation, and commissioning
- Raw-material sourcing, trial-batch qualification, and repeat supply planning
- International logistics, customs documentation, operator training, spare parts, and after-sales support

Recommended configuration

Treat as medium architectural fabrication. Establish engineered panel design, load paths, anchors, alkali-resistant fibre system, cure controls, handling plan and project-specific testing before equipment selection.

Manufacturing Process & Product Portfolio

Integrated process flow



Target products

Product	Typical specification	Primary market
GFRC architectural facade panels	Panel geometry, thickness, fibre dosage, strength, anchor/inserts, cure, weight, surface finish and engineered installation design	Commercial façades, villas, hotels, public buildings, precast contractors and architects

Supplier scope, actual materials, performance targets and acceptance sample must be confirmed before purchase.

Core Equipment Schedule

Step	Equipment	Function	Indicative parameter
1	GFRC slurry mixer	Controls cement matrix	Approved water/admixture recipe
2	AR-glass fibre spray system	Builds reinforced skin	Fibre dosage verified
3	Mould/cure area	Forms architectural panel	Insert/cure control
4	Handling/QC station	Releases panels safely	Anchor/geometry inspection

Equipment models are indicative and will be matched to the selected capacity, local raw-material tests, available utilities, and preferred automation level.

Reference Equipment Gallery



Made-in-China supplier reference: real gfrc architectural facade panels line equipment.



Made-in-China supplier reference: second real machine configuration for gfrc architectural facade panels line.

Images are supplier references for configuration discussion; final equipment appearance and model may differ.

Plant, Raw Materials & Utility Requirements

Raw materials

- Cement, graded sand/fillers, AR glass fibre, polymer/admixtures, pigments, mould materials, inserts/anchors, sealers and packaging

Utilities & infrastructure

- Stable power, extraction/ventilation and dry covered production/storage
- Guarded cutting/mixing equipment, documented maintenance and essential spares

Quality, safety and environmental controls

- Use engineered anchors and lifting points, not assumed fixing
- Check fibre dosage, thickness, cure, geometry, inserts and finish
- Confirm structural, fire, weather and installation standards with the project engineer

A final factory layout must reserve safe forklift routes, maintenance clearances, raw-material segregation, finished-goods storage, fire protection, ventilation, and future expansion space.

Indicative Investment & Implementation Plan

LOW-ENTRY CONFIGURATION

GFRC panels require engineered design and controlled AR-fibre reinforcement; a decorative moulding workshop is not a substitute for façade-panel fabrication.

Component	Indicative range	Notes
Mixing, spray equipment and moulds	US\$80k-260k	Medium GFRC fabrication
Cure, handling and QC systems	US\$50k-220k	Architectural-panel scope
Indicative total	US\$160k-550k	Building, lifting infrastructure and engineering excluded

Implementation sequence

Phase 1	2-5 weeks	Confirm product specification, representative raw material, buyer, capacity, site and utilities
Phase 2	3-7 weeks	Run supplier trials with the buyer material and freeze the balanced machine, tooling and utility scope
Phase 3	8-22 weeks	Manufacture or refurbish, inspect, document and ship the contracted equipment
Phase 4	3-12 weeks	Install, commission, train operators and pass material-specific acceptance tests

Ranges are planning targets for a low-cost entry configuration, exclude land, and remain subject to confirmed capacity, supplier quotation, freight, duties, exchange rates and site conditions.

Next Steps & Contact Information

Recommended next steps

- Confirm target products, hourly output, and packaging formats
- Test representative raw materials and document quality requirements
- Complete site survey covering electricity, water, fuel, drainage, roads, and warehouse space
- Request comparable technical and commercial quotations from shortlisted suppliers
- Finalize financing, logistics, installation, training, and spare-parts plan

Sanaatchi Industrial Vision Group

Afghanistan Office: +93 779 819 820 | info@sanaatchi.com

China Office: +86 159 5171 6867 | china@sanaatchi.com

Website: www.sanaatchi.com

Research and image references

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