

Fibre-Cement Boards & Siding Line

Complete Turnkey Business Proposal



Made-in-China supplier reference: real fibre-cement boards & siding line equipment.

approved sample market gate	defined product launch scope	performance test release gate	batch records traceability
---------------------------------------	--	---	--------------------------------------

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 fibre-cement flat sheets, corrugated panels and siding from cement, silica/filler, reinforcing fibre and water through controlled slurry mixing, sheet formation, pressing, cure, trimming/profiling, coating where specified, testing and packing.

Why this project fits Afghanistan

- Confirm the intended application, applicable standard and buyer acceptance test.
- Use a defined product family and documented formula/tooling at launch.
- Keep material, curing/firing and release records for every lot.

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 a strategic cement-composite plant. Define the board family, fibre type, curing route, dust controls, surface treatment, standard and off-take before EPC selection. Any asbestos-containing route is excluded; use compliant non-asbestos fibre systems only.

Manufacturing Process & Product Portfolio

Integrated process flow



Target products

Product	Typical specification	Primary market
Fibre-cement boards and siding	Board thickness/density, flexural strength, moisture movement, water resistance, fastener pull-through, fire classification, coating and profile tolerance	Roofing/wall contractors, prefab builders, warehouses, housing and building-material distributors

Supplier scope, feedstock suitability, utilities, installation and acceptance criteria must be confirmed before purchase.

Core Equipment Schedule

Step	Equipment	Function	Indicative parameter
1	Fibre dispersion and slurry plant	Distributes compliant fibre in cement matrix	Non-asbestos formula control
2	Sheet-forming/dewatering line	Forms continuous green board	Basis-weight stability
3	Press and curing system	Develops board strength	Cure/conditioning record
4	Cutting/profiling/coating equipment	Creates siding or board formats	Declared format/finish
5	Board laboratory	Tests structural and weather performance	Standard-specific release

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 fibre-cement boards & siding line equipment.



Made-in-China supplier reference: second real machine configuration for fibre-cement boards & siding line.

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

Plant, Raw Materials & Utility Requirements

Raw materials

- Cement, silica/filler, compliant reinforcing fibres, water, approved additives, coating materials where specified, packaging and cutting-tool spares

Utilities & infrastructure

- Industrial electricity, covered storage and protected finished-board handling
- Guarded machinery, maintenance plan, essential spares and material-specific dust/heat/chemical controls

Quality, safety and environmental controls

- Confirm fibre system and legal/safety compliance before procurement
- Control fibre dispersion, density, thickness, cure and moisture movement
- Test flexural strength, absorption, fastener pull-through, dimensional stability, fire and coating adhesion as applicable

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

Fibre-cement is a controlled composite product, not simply cement sheet. Fibre dispersion, curing, worker protection and board certification determine its commercial viability.

Component	Indicative range	Notes
Slurry, sheet forming and pressing	US\$1.5m-4.5m	Non-asbestos composite route
Curing, finishing and coating/profiling	US\$1.2m-4m	Product-family dependent
Utilities, lab, dust control and EPC	US\$1m-3.5m	Industrial compliance scope
Indicative strategic total	US\$3.7m-12m	Land/building/working capital 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

- <https://www.alibaba.com/showroom/fiber-cement-board-production-line.html>
- https://www.made-in-china.com/products-search/hot-china-products/Fiber_Cement_Board_Machine.html