

Aluminium-Composite Facade Panels Line

Complete Turnkey Business Proposal



Made-in-China supplier reference: real aluminium-composite facade panels line equipment.

approved sample market gate	defined range 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 aluminium-composite façade panels by coil preparation, polymer-core extrusion or feeding, continuous lamination, cooling, trimming, surface protection, cutting and panel adhesion/flatness inspection.

Why this project fits Afghanistan

- Approve a physical sample and applicable standard.
- Launch with a defined product range and documented tool settings.
- Keep material and quality records for each batch.

Sanaatchi delivery scope

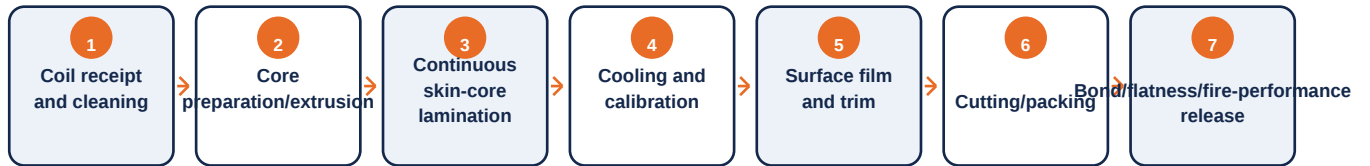
- Factory setup planning, supplier pre-qualification, and technical comparison
- Complete production-line and individual equipment supply
- Factory layout, utilities, civil-work coordination, installation, and commissioning
- Raw-material sourcing, trial-batch qualification, and repeat supply planning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

Recommended configuration

This is a strategic continuous coil-and-polymer process. Confirm compliant core type, fire classification, coil supply, emissions controls, utilities, off-take and experienced technical partner before EPC selection.

Manufacturing Process & Product Portfolio

Integrated process flow



Target products

Product	Typical specification	Primary market
Aluminium-composite façade panels	Aluminium skin thickness/coating, core type, panel thickness, bond strength, flatness, colour, fire classification and fabrication compatibility	Commercial façades, signage, retail, compounds and façade contractors

Supplier scope, materials, utilities, installation requirements and acceptance criteria must be confirmed before purchase.

Core Equipment Schedule

Step	Equipment	Function	Indicative parameter
1	Coil handling and surface preparation	Prepares aluminium skins	Coil/coating traceability
2	Core extrusion/feeding line	Forms specified polymer/mineral core	Approved core formulation
3	Continuous laminator	Bonds skins and core	Bond/temperature/pressure control
4	Finishing/packing system	Delivers protected panels	Flatness/edge tolerance
5	Panel laboratory	Releases compliant product	Bond/fire/appearance test

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 aluminium-composite facade panels line equipment.



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

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

Plant, Raw Materials & Utility Requirements

Raw materials

- Coated aluminium coil, qualified polymer/mineral core materials, adhesion layers, protective film, packaging and process consumables

Utilities & infrastructure

- Stable electricity, covered raw-material storage and protected finished-goods handling
- Guarded equipment, documented maintenance, essential spares and product-specific safety controls

Quality, safety and environmental controls

- Confirm core/fire classification and legal installation requirements before launch
- Control skin/core bond, thickness, flatness, colour and protective film
- Test peel strength, dimensional stability, weather/appearance and declared fire classification

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

ACP is a material-performance product; core selection, bond durability and certified fire classification are more important than panel appearance alone.

Component	Indicative range	Notes
Coil, core and continuous lamination line	US\$4m-12m	Strategic ACP process
Finishing, utilities and safety systems	US\$1.5m-5m	Emissions/fire scope
EPC, lab and commissioning	US\$1.5m-5m	Bankable feasibility required
Indicative strategic total	US\$7m-22m	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/facade-panel-production-line.html>
- https://www.made-in-china.com/products-search/hot-china-products/Door_Making_Machine.html