

Aluminium Honeycomb Facade Panels Line

Complete Turnkey Business Proposal



Made-in-China supplier reference: real aluminium honeycomb 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 honeycomb façade panels by foil/cell expansion or sourcing, face-sheet preparation, adhesive application, sandwich pressing/cure, trimming, inserts/edge closure, flatness inspection and protected packing.

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

Treat this as a strategic engineered-panel project. Validate core geometry, adhesive cure, face-sheet/coating, inserts, edge closure, flatness and façade engineering on project samples before investing in continuous equipment.

Manufacturing Process & Product Portfolio

Integrated process flow



Target products

Product	Typical specification	Primary market
Aluminium honeycomb façade panels	Face sheet/coating, honeycomb cell/core, panel thickness, bond, flatness, inserts, edge closure, pull-out and façade-system compatibility	Premium façades, transport interiors, ceilings, airports, hotels and commercial projects

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

Core Equipment Schedule

Step	Equipment	Function	Indicative parameter
1	Honeycomb core former/expander	Prepares controlled core geometry	Cell/thickness specification
2	Adhesive and layup station	Builds sandwich panel	Qualified adhesive recipe
3	Vacuum/hot press	Cures flat durable panel	Pressure/temperature cycle
4	CNC trim/insert station	Finishes project details	Edge/insert tolerance
5	Panel QC tools	Releases engineered assemblies	Flatness/bond/pull-out tests

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 honeycomb facade panels line equipment.



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

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

Plant, Raw Materials & Utility Requirements

Raw materials

- Aluminium face sheets, aluminium honeycomb foil/core, qualified adhesive, edge closures, inserts, coatings/protective film and packaging

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

- Approve face/core/adhesive combination on representative panels
- Check cell structure, bond, flatness, edge closure, inserts and surface quality
- Test peel/bond, insert pull-out, dimensional stability and project façade compatibility

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

Honeycomb panels are engineered sandwich elements; flatness, inserts and bond performance must follow façade design, not generic sheet-panel assumptions.

Component	Indicative range	Notes
Core, layup and press equipment	US\$2m-7m	Engineered panel route
CNC finishing, handling and QC	US\$0.8m-3m	Project-specific scope
Utilities, EPC and commissioning	US\$1m-3.5m	Bankable feasibility required
Indicative strategic total	US\$3.8m-13.5m	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

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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