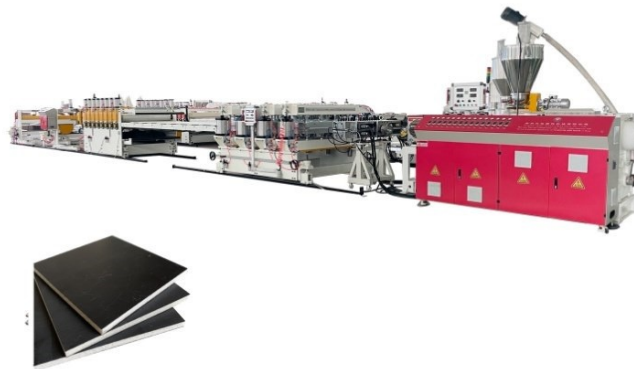




Continuous PU/PIR Sandwich Panels Line

Complete Turnkey Business Proposal



Made-in-China supplier reference: real continuous pu/pir sandwich 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 continuous metal-faced PU/PIR insulated sandwich panels by coil handling, surface preparation, metered reactive chemical mixing, continuous laydown and double-belt curing, cut-to-length, profiling, protective-film application, packing and panel-performance testing.

Why this project fits Afghanistan

- Approve an installed sample and buyer acceptance criteria.
- Launch with a defined product family and documented tool settings.
- Keep material and quality records for every 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 reactive-chemical panel plant. Complete bankable feasibility on coil supply, approved PU/PIR chemistry, fire classification, ventilation, emergency response, utilities, maintenance and contract off-take before EPC selection.

Manufacturing Process & Product Portfolio

Integrated process flow



Target products

Product	Typical specification	Primary market
Continuous PU/PIR sandwich panels	Steel thickness/coating, core density, panel thickness, bond strength, thermal conductivity, fire classification, profile, cut tolerance and joint detail	Cold rooms, warehouses, industrial buildings, roofing/wall contractors and prefab projects

Supplier scope, site utilities, test requirements and acceptance sample must be confirmed before purchase.

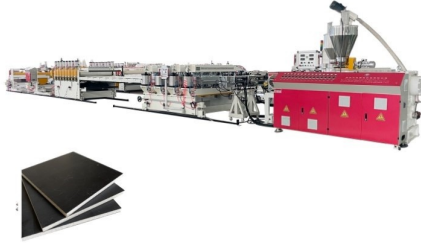
Core Equipment Schedule

Step	Equipment	Function	Indicative parameter
1	Coil handling and roll former	Prepares metal facings/profile	Coil grade/panel geometry
2	PU/PIR metering system	Controls reactive core chemistry	Qualified formulation ratio
3	Continuous double-belt line	Cures laminated panel	Thickness/speed/cure control
4	Cutting/packing system	Produces installed lengths	Length/edge tolerance
5	Panel laboratory	Releases safe panels	Bond/thermal/fire test plan

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

 **SANYI**



Made-in-China supplier reference: real continuous pu/pir sandwich panels line equipment.

 **ANXING**
SOLUTION



Made-in-China supplier reference: second real machine configuration for continuous pu/pir sandwich panels line.

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

Plant, Raw Materials & Utility Requirements

Raw materials

- Pre-painted galvanised steel coil, qualified polyol and isocyanate systems, additives, protective film, joint accessories, packaging and chemical-handling consumables

Utilities & infrastructure

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

Quality, safety and environmental controls

- Verify chemical supplier, safety data and emergency controls before start-up
- Control mix ratio, panel thickness, density, bond and cure temperature
- Test adhesion, compressive strength, thermal conductivity, water behaviour and declared fire classification to target standard

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

PU/PIR panels depend on controlled reactive chemistry and certified fire/thermal performance; an unqualified low-cost panel line creates unacceptable installation and liability risk.

Component	Indicative range	Notes
Coil, roll-forming and continuous panel line	US\$3m-9m	Continuous industrial system
Reactive chemical, safety and finishing systems	US\$1.5m-5m	PU/PIR handling scope
Utilities, lab, EPC and commissioning	US\$1.5m-5m	Bankable strategic investment
Indicative strategic total	US\$6m-19m	Land/building/coil and chemical 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

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