

PVC/ASA Synthetic Roofing Tiles Line

Complete Turnkey Business Proposal



Made-in-China supplier reference: real pvc/asa synthetic roofing tiles 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 PVC/ASA synthetic roofing tiles by controlled PVC/mineral compound mixing, co-extrusion or extrusion forming, profile calibration, cooling, cutting, optional ASA weather layer, inspection and packing.

Why this project fits Afghanistan

- Approve a physical sample and installation system.
- Begin with selected sizes, profiles and finishes.
- Keep material and quality records for every batch.

Sanaatchi delivery scope

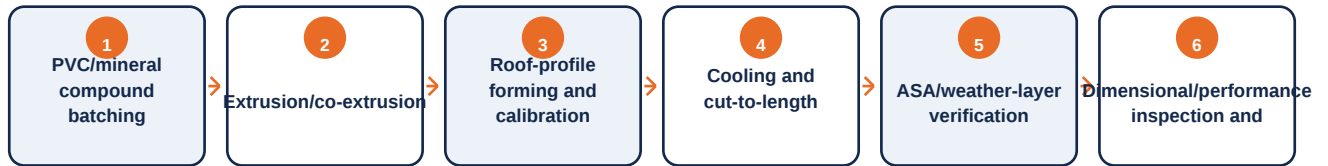
- Factory setup planning, supplier pre-qualification, and technical comparison
- Complete production-line and individual equipment supply
- Factory layout, utilities, civil-work coordination, installation, and commissioning
- Raw-material sourcing, trial-batch qualification, and repeat supply planning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

Recommended configuration

Treat as medium industrial extrusion. Confirm formulation, UV/weather layer, profile geometry, impact/heat performance, overlap/fixing system and site temperature conditions before selecting equipment.

Manufacturing Process & Product Portfolio

Integrated process flow



Target products

Product	Typical specification	Primary market
PVC/ASA synthetic roofing tiles	PVC/mineral formula, ASA weather layer, thickness, profile, UV/heat resistance, impact strength, overlap and fixing detail	Housing, warehouses, agricultural buildings, roofing contractors and building-material dealers

Supplier scope, actual materials, installation requirements and acceptance sample must be confirmed before purchase.

Core Equipment Schedule

Step	Equipment	Function	Indicative parameter
1	Mixer/compound feeder	Controls PVC/mineral input	Approved formula
2	Extruder/co-extruder	Forms roofing sheet	Thickness/weather-layer target
3	Profile/calibration line	Sets roof geometry	Overlap/flatness check
4	Cooling/cutter/QC	Releases roof tile lengths	Dimension/impact check

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 pvc/asa synthetic roofing tiles line equipment.



Made-in-China supplier reference: second real machine configuration for pvc/asa synthetic roofing tiles line.

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

Plant, Raw Materials & Utility Requirements

Raw materials

- PVC resin, calcium carbonate/mineral filler, stabilisers, pigments, ASA capstock/weather layer, additives and packaging

Utilities & infrastructure

- Stable power, covered production/storage and reliable water where concrete is used
- Guarded cutting/forming equipment, documented maintenance and essential spares

Quality, safety and environmental controls

- Check formula, thickness, weather-layer continuity, profile and cut length
- Test impact, heat/UV resistance and overlap/fixing compatibility
- Provide ventilation, dust control, temperature control and safe handling of hot extrusion

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

PVC/ASA roof tiles need a stable formulation and weather layer; generic plastic-sheet extrusion is not sufficient for roofing performance.

Component	Indicative range	Notes
Mixing, extrusion and profile line	US\$300k-950k	Medium synthetic-roof process
Co-extrusion, cooling, cutting and QC	US\$150k-450k	ASA/weather-performance scope
Indicative total	US\$500k-1.4m	Building/resin inventory 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/roof-tile-production-line.html>
- https://www.made-in-china.com/products-search/hot-china-products/Roof_Tile_Production_Line.html