

PRODUCT OVERVIEW & CUSTOMIZATION

Solid Aluminum Panels

Technical & Installation Guide

Solid aluminum panels, also referred to as aluminum veneer panels in some supplier catalogs, are fabricated from a single aluminum sheet for architectural cladding. They can be customized for facades, interior walls, ceilings, columns and entrance features. Unlike aluminum composite panels, they have no bonded composite core.

Specification & finish options

Material & thickness	Alloy, temper and sheet thickness are confirmed against the application, forming requirements and approved design.
Dimensions & shapes	Custom flat, folded, curved and shaped panels, subject to drawing review. Maximum size and bending limits require confirmation.
Colors & textures	Solid colors, metallic effects, wood-grain and stone-effect finishes. Approve physical samples, gloss and pattern direction.
Surface treatment	PVDF coating, architectural powder coating or anodizing, subject to finish availability and project specification. Confirm suitability for the exposure.
Perforations & edges	Hole pattern, open area, margins, folded returns, joints and fixing positions coordinated with approved drawings.

Typical applications

Exterior: commercial facades, offices, stations, shopfront fascias and canopies.
Interior: hotel lobbies, retail walls, restaurants, ceilings and column covers.
Specialist spaces: theaters and meeting halls using a designed perforated acoustic assembly; residential feature walls and balcony cladding.

Performance boundary: A metal facing alone does not establish the fire, thermal, acoustic or water-resistance performance of the complete installation. Project-specific documentation is required.

PROJECT QUALIFICATION & MANUFACTURING

From drawings to delivery

Confirm these project requirements

Structure	Design loads, panel spans, stiffeners, brackets, anchors and support spacing require project review.
Fire & compliance	Confirm destination requirements and the documentation applicable to the proposed finish and complete assembly. No universal fire rating is declared here.
Weather & movement	Coordinate joints, drainage, flashings, openings, movement allowances and compatibility between adjacent materials.
Appearance & accuracy	Agree samples, dimensional tolerances, coating acceptance criteria and pattern direction before production.
Acoustic applications	Perforated panels require a suitable absorber and cavity. Use test data for the relevant assembly when acoustic performance is specified.

Manufacturing & inspection

Stated monthly capacity: 5,000 m². Order capacity depends on geometry, finishing requirements and the current production mix.

Inspectors at every production stage. Inspection checkpoints should cover incoming material, cutting and forming dimensions, fabricated connections, finish and final packing. Request order-specific inspection records and agreed acceptance criteria.

Sampling & release

Sample preparation: 5-7 days, subject to sample scope and material availability; shipping is additional. Approve the physical finish sample and drawing revision in writing. Full-size mock-ups or complex assemblies may need a separate schedule.

Bulk delivery: confirmed in the order schedule after scope and approval conditions are agreed. No fixed bulk lead time is declared.

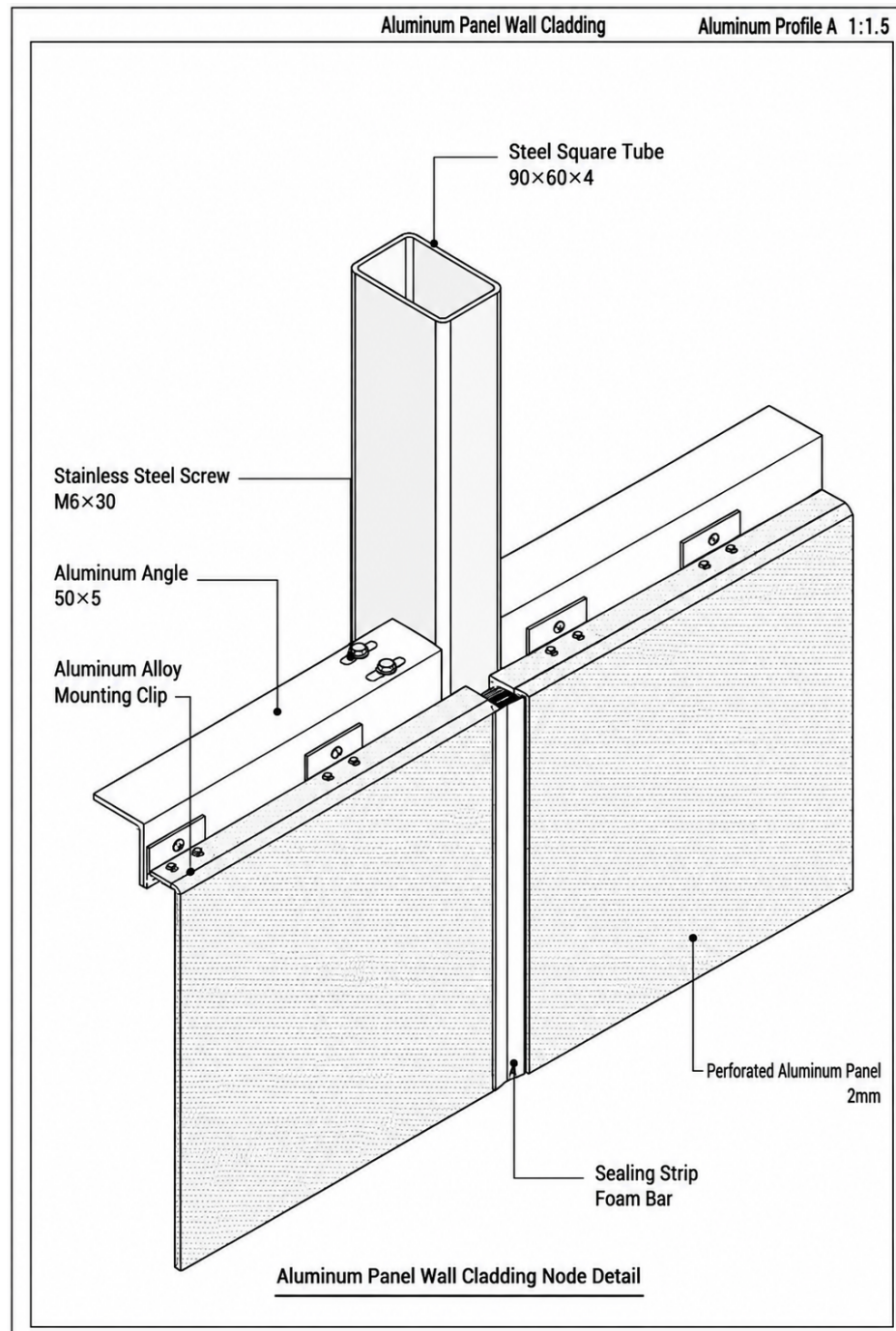
Request a quotation: send project location, application, quantity, panel schedule, drawings, finish reference, required performance and target delivery date.

Contact XIAOHENG - tzxh-material.com/contact-us/

ILLUSTRATIVE INSTALLATION DETAIL

Panel-to-subframe connection

Perforated aluminum wall cladding | supplied reference drawing



Drawing shown for coordination only - not to scale in this PDF. The source labels a 2 mm perforated panel, 90 x 60 x 4 steel tube, 50 x 5 aluminum angle and M6 x 30 screw. These are example callouts, not a universal specification. Confirm units, loads, corrosion protection, fixings, joints, drainage and movement with the project designer before use.