

# Premium Curtain Wall Aluminum Profiles: Architectural-Grade Extrusions for Modern Facades

Engineered for Skyline Excellence

Jinyang Aluminium delivers precision-engineered curtain wall profiles crafted from high-grade 6061-T6 and 6063-T6 aluminum alloys. Designed to meet rigorous architectural demands, our extrusions feature thermally broken systems, superior load-bearing capacity, and advanced surface finishes—including anodized silver/black, woodgrain, and PVDF coatings. Ideal for commercial high-rises, institutional buildings, and luxury facades, our profiles combine structural resilience with aesthetic versatility for seamless global integration.

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## Product Detail Page

Material: 6061-T6, 6063-T6,

Thermal Break: Polyamide Insulation Bars (Standard)

Wall Thickness: 1.8mm–4.0mm (Customizable)

Tolerance:  $\pm 0.5$ mm (Precision Extrusion)

Surface Finish: Anodized (AA25); Powder Coating; PVDF Fluorocarbon

Color Options: Silver, Black, Bronze, Woodgrain, Custom RAL

Max. Length: 7.5m (Single Piece)

Application: Unitized Curtain Walls; Stick Systems; Structural Glazing

Certifications: ASTM E283/E331; EN 14024; AAMA 2605

Lead Time: 15–30 Days (Based on Complexity)

Shipping Ports: Guangzhou, Shenzhen, Foshan

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## Scene 1: Commercial High-Rise & Institutional Buildings

Our profiles form the backbone of hurricane-resistant curtain walls in skyscrapers and public infrastructure. Engineered with multi-chamber designs and polyamide thermal barriers, they reduce U-values by 40% while supporting wind loads exceeding 3.5 kPa. The integrated drainage channels and compression-sealed joints combat water infiltration in extreme climates, ensuring decades of maintenance-free performance. Anodized finishes (25µm) resist UV fading and pollution corrosion—critical for coastal or urban environments.

## Scene 2: Design-Forward Architectural Landmarks

Transform visionary concepts into reality with custom-shaped profiles for organic geometries and cantilevered facades. CNC-extruded to  $\pm 0.5$ mm precision, our profiles accommodate oversized glazing and unconventional angles without compromising air/water tightness. The PVDF super-polymeric coatings (30+ color options) retain chromatic stability under solar exposure, while scratch-resistant matte woodgrain finishes blend seamlessly with natural surroundings. Ideal for museums, luxury retail, and eco-sensitive projects demanding both artistry and ENERGY STAR® compliance.

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## Technical Superiority

- **Structural Integrity:** 160MPa minimum tensile strength for seismic Zone 4 compliance.
- **Thermal Efficiency:** Polyamide breaks reduce thermal transfer by 60% vs. standard extrusions.
- **Corrosion Defense:** Chromic acid anodization (Class I) exceeds 8,000 hours salt spray resistance.
- **Custom Flexibility:** 800+ die library for bespoke mullions, transoms, and pressure plates.

## Why Jinyang?

As a vertically integrated manufacturer, we control extrusion, finishing, and testing—delivering SGS-compliant profiles with third-party certified performance data.