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SunFrame
Facade System One Stop Solution

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SUNFRAME

FACADE SYSTEM ONE STOP SOLUTION

GL-50

Hidden System

01

ABOUT US

An integrated facade specialist delivering high-performance architectural envelope solutions.

02

STRUCTURE

Framed curtain walls combine reliable performance, flexible construction, clean aesthetics, and easy long-term maintenance.

03

SYSTEM FEATURE

Premium slim-profile curtain wall system combining elegant aesthetics, reliable performance, and versatile facade integration.

04

VISIBLE FRAME

Visible-frame curtain wall with visible structure, mature technology, dependable performance, and convenient maintenance.

05

INVISIBLE FRAME

Invisible-frame curtain wall system with concealed framing, unified facade expression, modern appearance, and transparent visual

06

DIVERSE CHOICES

Framed curtain wall operable vent hardware combines friction hinges, optional wind brace, and graphic accessories.

CONTENT

01.

CURTAIN WALL

EXTERIOR FACADE SYSTEM PROVIDING ENCLOSURE, PROTECTION, INSULATION, AESTHETICS, AND DESIGN

03.

METAL&GLASS RAILINGS

MODERN RAILINGS COMBINING TRANSPARENCY, SAFETY, DURABILITY, MINIMALISM, AND VISUAL OPENNESS.

02.

ALUMINUM DOORS&WINDOWS

LIGHTWEIGHT, DURABLE SYSTEMS OFFERING INSULATION, SEALING, VENTILATION, SECURITY, AND ELEGANCE.

04.

OTHER

MORE INNOVATIVE ARCHITECTURAL PRODUCTS ARE CURRENTLY UNDER RESEARCH AND DEVELOPMENT.

Foshan Yongli Sunframe Construction Consulting Co., Ltd., as overseas department of YongLiJiang Curtainwall Engineering Co., Ltd., is an independent engineering technical company Located in Foshan, which is the most famous decorating material city in south China. Based on the powerful support by Guang Dong Yong Li Jian Aluminium Co, Ltd, we have a professional team with our honest and keep faith to provide the highest quality service. Moreover, we could offer our clients one-stop solution and technical consulting service about construction projects façade decoration system, and decoration material purchasing, import & export logistics service etc..

ABOUT US



GL-50

A framed curtain wall is typically installed by fixing vertical mullions to the main structure first, then adding transoms to form a grid, and finally setting glass or other panels into the frame with joint sealing.



Exposed

Construction method

In an exposed-frame curtain wall, the glass is set within the aluminum framing and fixed by pressure plates, cover caps, or glazing grooves, leaving the frame lines clearly visible on the facade.

Structure

Installation is relatively simple, waterproofing is commonly achieved through gaskets and sealed joints, system performance is stable, and glass replacement and maintenance are usually easier.



Features

- Exposed-frame curtain walls are the more traditional and common form of glass curtain wall, with highly mature construction methods proven in many projects and generally easier site technology requirements.



Advantages

- Installation is relatively simple, waterproofing is commonly achieved through gaskets and sealed joints, system performance is stable, and glass replacement and maintenance are usually easier.



Hidden

Construction method

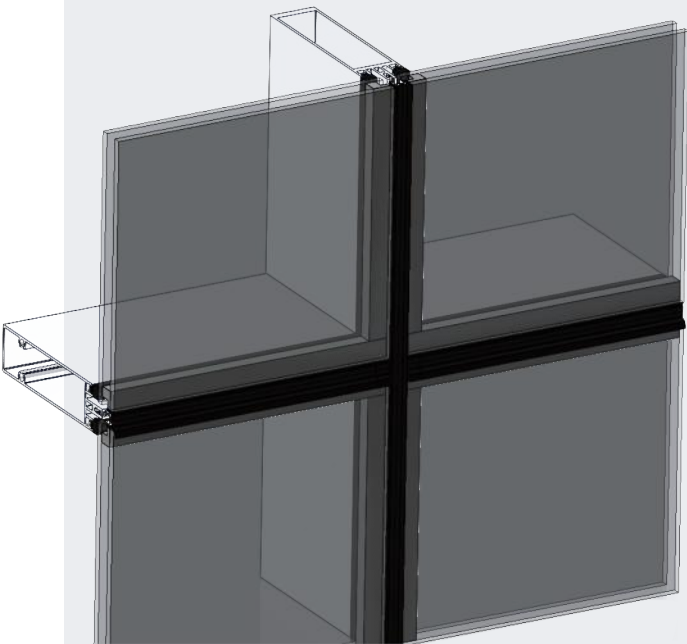
In a hidden-frame curtain wall, the glass panel is bonded to a sub-frame with structural silicone, sometimes combined with metal clamps, and then connected to the main structure or supporting frame so that the main aluminum framing is not visible from outside.

Its basic components include mullions, transoms, connectors, panels, and sealing systems; it is a non-load-bearing exterior enclosure that mainly resists self-weight and external actions such as wind and rain.



Features

- Hidden-frame curtain walls create a smooth and clean appearance, showing the transparency and modern character of glass more fully, which makes them suitable for projects seeking a pure facade expression.

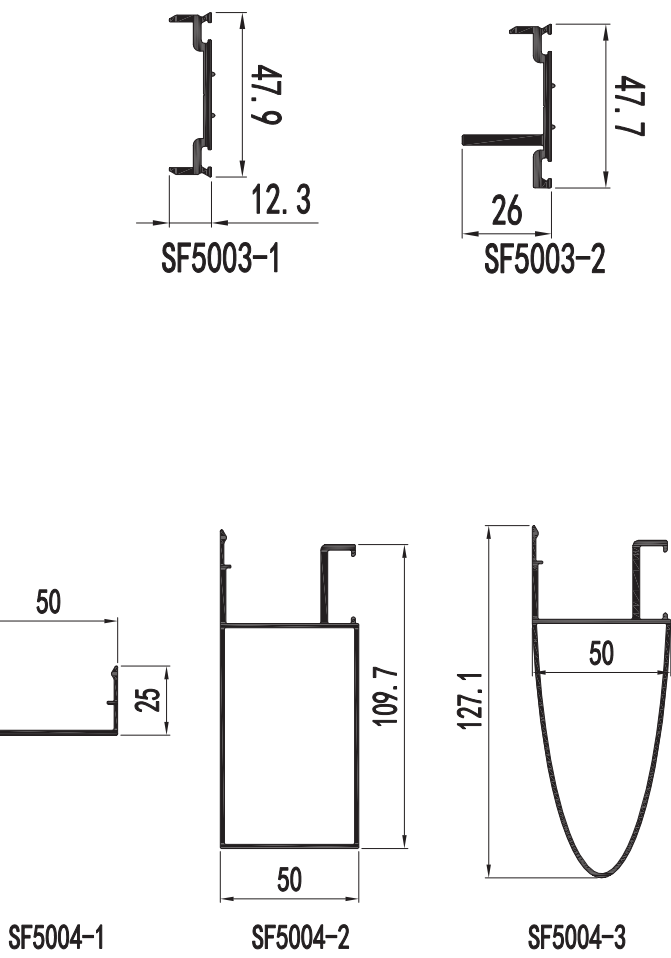
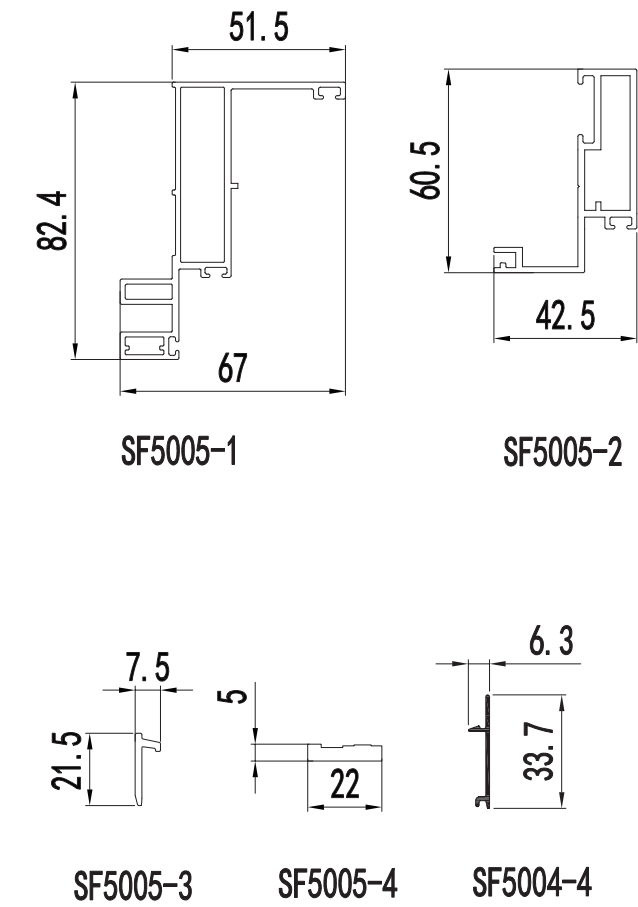


Advantages

- Because fewer framing elements are exposed, the facade has a stronger overall visual continuity, and the reduced visible joints between glass and the exterior environment are often considered beneficial for facade cleanliness and sealing performance.

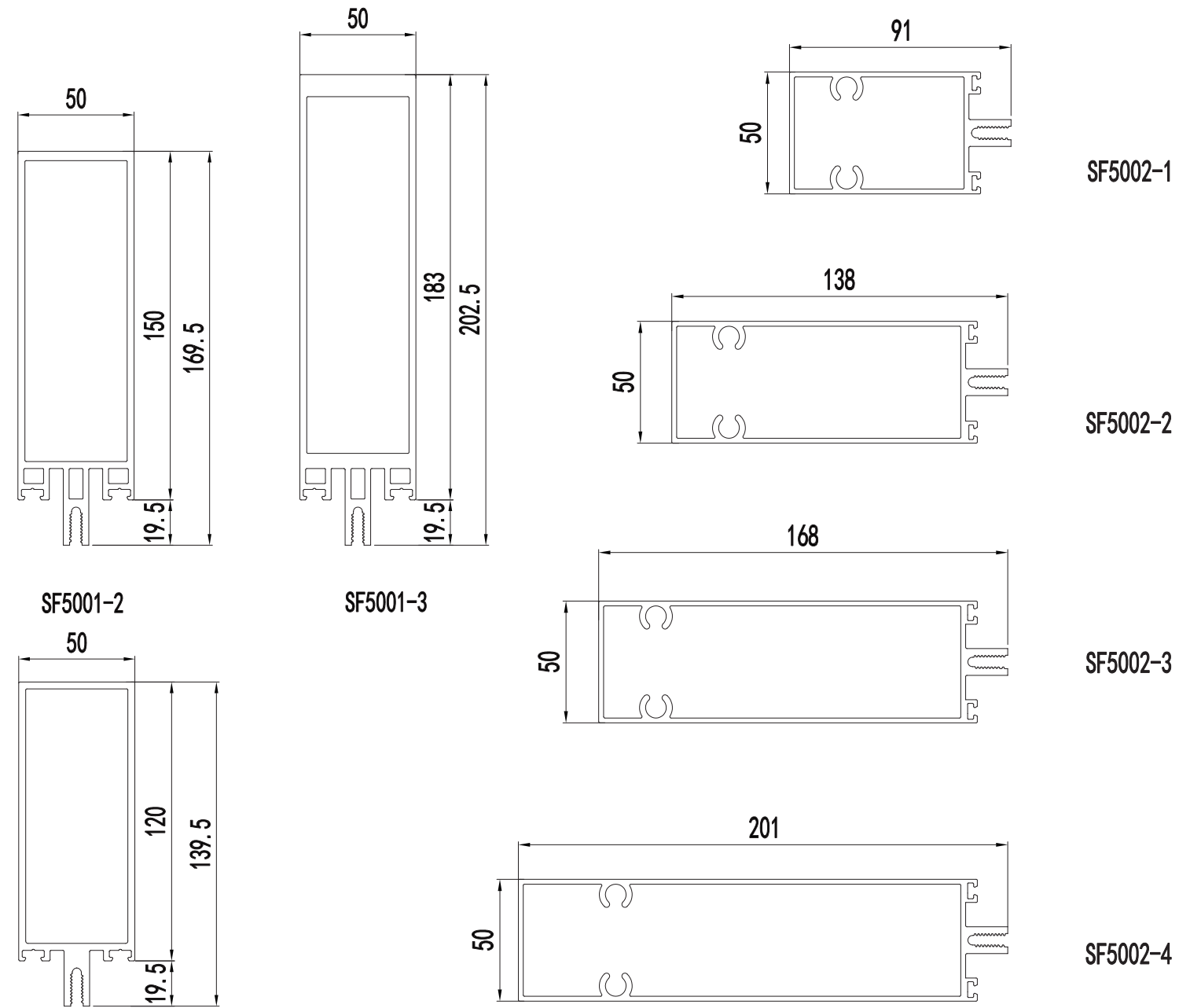
Profile No.	Cross-sectional area(mm²)	Weight (kg/m)
SF5003-1	160.255	0.441
SF5003-2	221.247	0.608
SF5004-1	158.824	0.437
SF5004-2	543.998	1.496
SF5004-3	527.016	1.449

PROFILE
STRUCTURE



Profile No.	Cross-sectional area(mm²)	Weight (kg/m)
SF5004-4	46.568	0.128
SF5005-1	495.557	1.363
SF5005-2	362.708	0.997
SF5005-3	54.493	0.150
SF5005-4	99.330	0.273

Profile No.	Ix moment of inertia (mm⁴)	Iy moment of inertia (mm⁴)	Wx1 section modulus (mm³)	Wx2 section modulus (mm³)	Cross-sectional area (mm²)	Moment of Area (mm³)	Weight (kg/m)
SF5001-1	245.046	44.281	34.602	35.678	1190.539	24.195	3.274
SF5001-2	465.017	56.746	53.457	56.358	1513.450	37.659	4.162
SF5001-3	1036.599	74.108	105.875	99.109	2110.395	67.697	5.804



Profile No.	IX MOI & IX MOI (mm⁴)	IX MOI & IY MOI(mm⁴)	Wx1 section modulus & IX MOI(mm⁴)	Wx2 section modulus & IX MOI(mm⁴)	Wy1 section modulus & IX MOI(mm⁴)	Wy2 section modulus & IX MOI(mm⁴)	Cross-sectional area (mm²)	Moment of Area Sx (mm³)	Moment of Area (mm³)	Weight (kg/m)
SF5002-1	26.378	66.304	10.551	10.551	14.300	14.855	753.254	6.330	10.228	2.071
SF5002-2	37.213	207.508	14.885	14.885	29.714	30.442	941.254	8.586	20.183	2.588
SF5002-3	43.928	348.723	17.571	17.571	40.980	42.063	1056.980	9.981	27.548	2.907
SF5002-4	51.536	538.560	20.615	20.614	53.866	53.313	1191.110	11.567	36.048	3.276

Visible Technical Specifications	
Frame Uf Value:	≥0.91 W/(m²·K)
Visible Face Width:	50 mm (Front Cap)
System Basic Depth:	6–255 mm ·Mullion Basic Depth: 50–250 mm
Glass Thickness Range (mm)	6mm - 42mm ·Supports single glazing, double IGU, and triple IGU configurations
Aluminum Profile Alloy	6063-T5 / T6
Thermal Break Material	PA66 nylon thermal barrier
Surface Finish Options	Anodized, Powder Coated, PVDF Coated
Max. Panel Height	3,000mm (expandable to 4,500mm with steel reinforcement)
Max. Panel Width	1,200mm (standard), up to 2,000mm with reinforcements
Butt Joint Width:	20mm
Installation Angle:	5-105°
Polygon Facade Angle:	45°
Skylight Construction:	Vertical Incline 5-80°
Drainage:	3-Level Drainage System

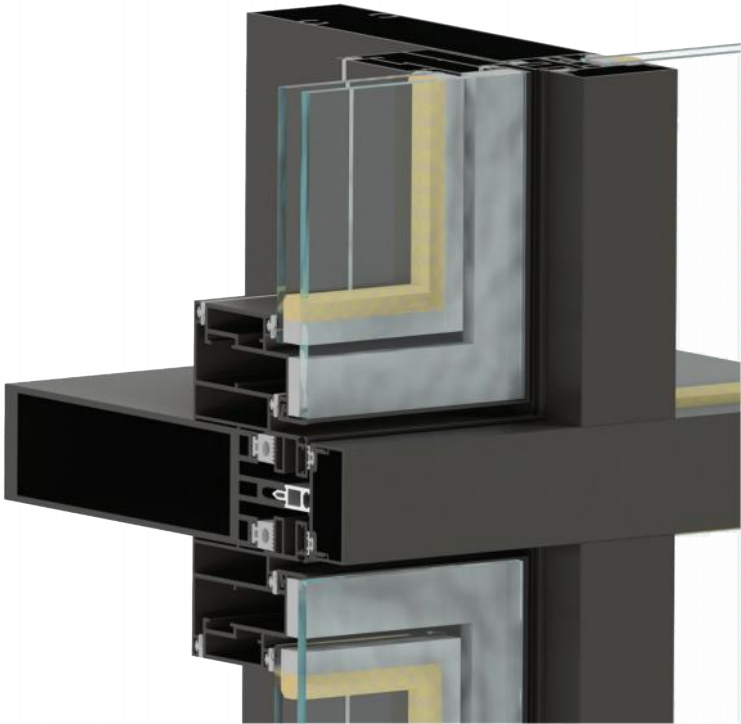
Performance Ratings	
Air Tightness:	≤0.3 m³/(m²·h) @ ±300 Pa
Water Residence:	1,200 Pa (Static)
Wind Load Resistance:	±2.31 kPa (Design) / ±3.47 kPa (Proof)
Sound Reduction Index (Rwp):	Up to 52 dB (with Double/Triple Glazing)
Impact Resistance:	I5/E5
Burglar Resistance:	RC2 to RC4 (Option for Upgrade mechanism)
Suitable for Safety Barrier Loading:	Yes

Certifications	
ISO Certification	ISO 9001; ISO 14001; ISO45001
AAMACertified	Yes
CE Certification	CE Certification
GB/T Certification	GB/T 50430
Test Laboratory	YES
Other Approvals	IGCC (USA)

SYSTEM FEATURE

Available in exposed, semi-hidden, and hidden curtain wall configurations, the system is designed to meet demanding façade performance requirements.

The system achieves an air infiltration rate of ≤ 0.3 m³/(m²·h) at ±300 Pa (ASTM E283) and wind load resistance of ±2.31 kPa / ±3.47 kPa in accordance with ASTM E330.



Water penetration resistance reaches 1200 Pa under static conditions in accordance with ASTM E331 and also passes dynamic water penetration testing in accordance with AAMA 501.1.

When configured with double or triple insulating glass units (IGUs), the system provides sound insulation of up to 52 dB and a thermal performance of $U_w \leq 1.8 \text{ W/m}^2\text{K}$.

The SF-GL50 is a premium slim-profile, high-performance stick-built curtain wall system engineered to meet the demands of contemporary architecture. Featuring a 50 mm visible aluminum profile on the exterior, it delivers a sleek, modern aesthetic while ensuring exceptional structural integrity, thermal efficiency, and weather performance. Its versatile design accommodates a wide range of glazing and panel configurations, enabling architects to create striking facades for Commercial, Residential, and Institutional projects.

The SF-GL50 system offers seamless integration with operable windows, doors, and shading devices, providing both design flexibility and long-term durability for demanding building environments.

200+

COOPERATIVE
PROJECTS

100+

COOPERATION
REGIONS

70W+

PRODUCTION
AREA

VISIBLE FRAME

In a framed curtain wall system, the glass is set within a visible metal framing system, creating a clear horizontal and vertical grid across the facade. In essence, this type of curtain wall expresses the structural skeleton, modular divisions, and construction logic directly as part of the architectural language.



Project Name

Cebu Mahi Center

Project Location

Cebu, Philip-pine

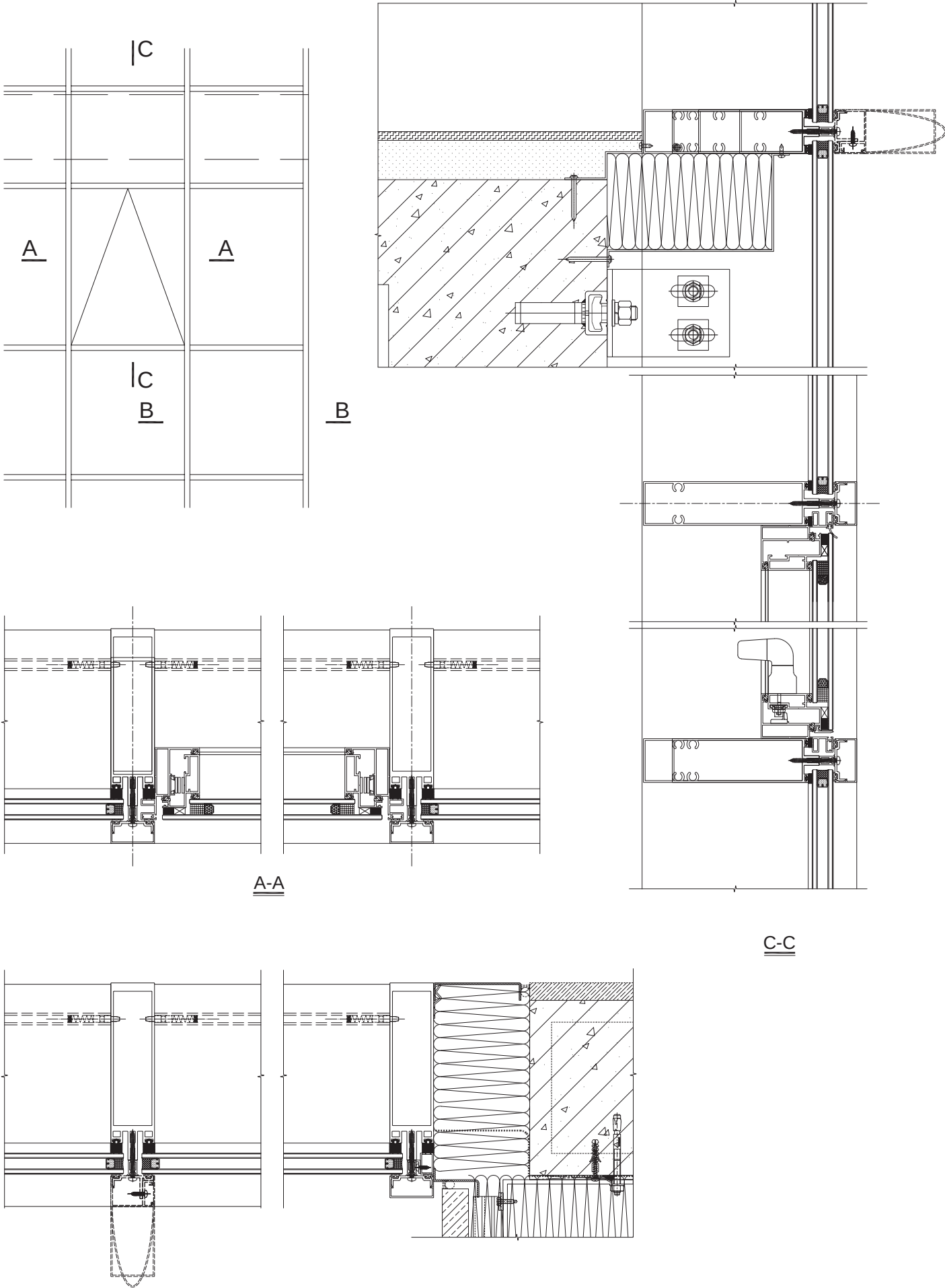
Curtain Wall Type

GL-50 Visible Frame

Application Area

6000 m²

The reason this system has been widely adopted over time is that it represents a more traditional and mature approach, offering reliable overall performance and relatively straight-forward compliance with construction and installation requirements. It also allows for more direct maintenance procedures and easier replacement of individual glass panels.



INVISIBLE FRAME

In a hidden frame curtain wall system, the metal framing members are concealed behind the glass, which is typically bonded to the supporting frame with structural silicone. As a result, no obvious frame is visible from the exterior, and the facade is perceived more as a continuous glass skin.



Project Name

Pegasus Hotel- 5 Stars

Project Location

George Town, Guyana

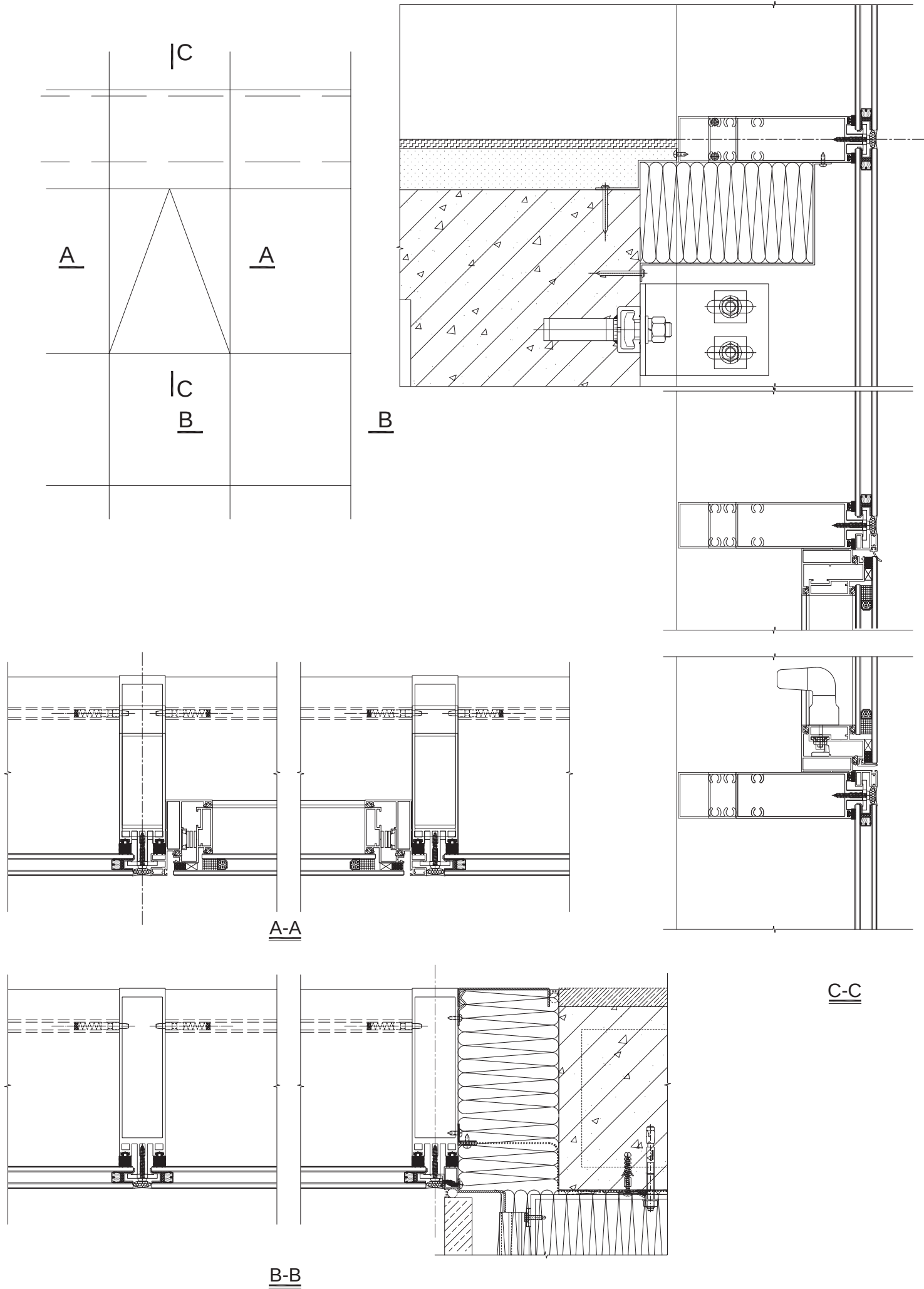
Curtain Wall Type

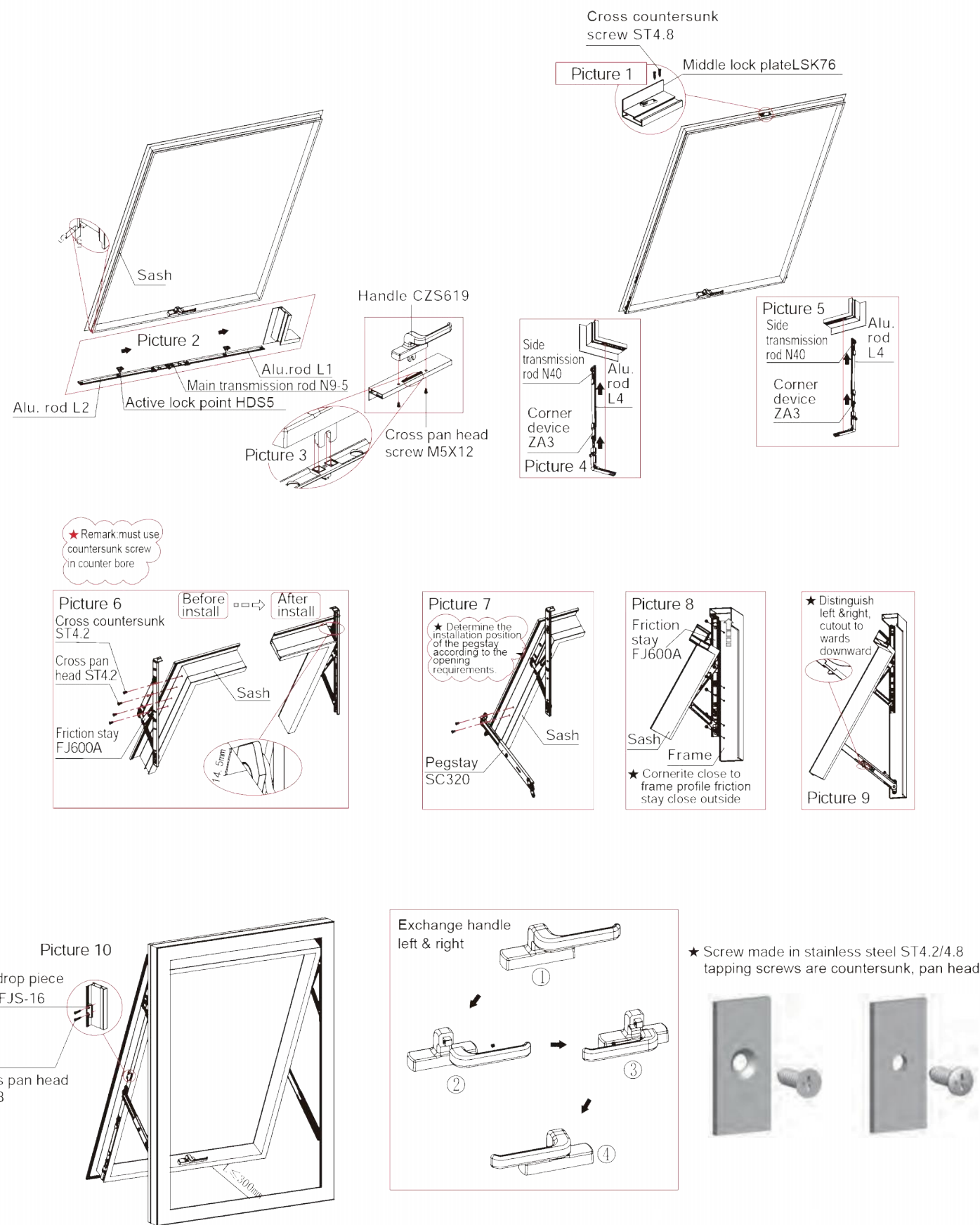
GL-50 Invisible Frame

Application Area

15000 m²

The design intent of a hidden frame curtain wall is not to make the frame the dominant visual element of the facade, but rather to minimize the presence of the supporting structure and enhance the building's sense of unity, lightness, modernity, and transparency.





DIVERSE CHOICES

HARDWARE CONFIGURATION FOR FRAMED CURTAIN WALL OPERABLE VENTS

Hardware for framed curtain wall operable vents shall be properly selected according to window size, opening method, and application requirements, so as to ensure stable operation, reliable positioning, and long-term performance under daily use and wind load conditions. A systematic configuration of key load-bearing and auxiliary components can further improve safety, durability, and overall operating performance.

NO.	Parts	Serial	Quantity	Remark
1	handle	CZS519	1	left and right
2	main drive rod	N10	2	
3	side drive rod	N40	2	
4	lock block	SK32B	2	
5	middle lock block	N40LSK76	1	
6	Anti-fall block	1630FJS-16	4	
7	sliding stay	FJ600A	2	Depends on window type
8	wind brace	SC320	2	Depends on window type
9	active lock	HDS5	2	
10	Corner	ZA3	2	
11	lock block	SK32B	4	