

STICK CURTAIN WALL SYSTEM SF-GL50



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System performance

Mechanical, waterproof, sealing, and thermal insulation performance of the curtain wall system

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Display of curtain wall system profiles and examples of application

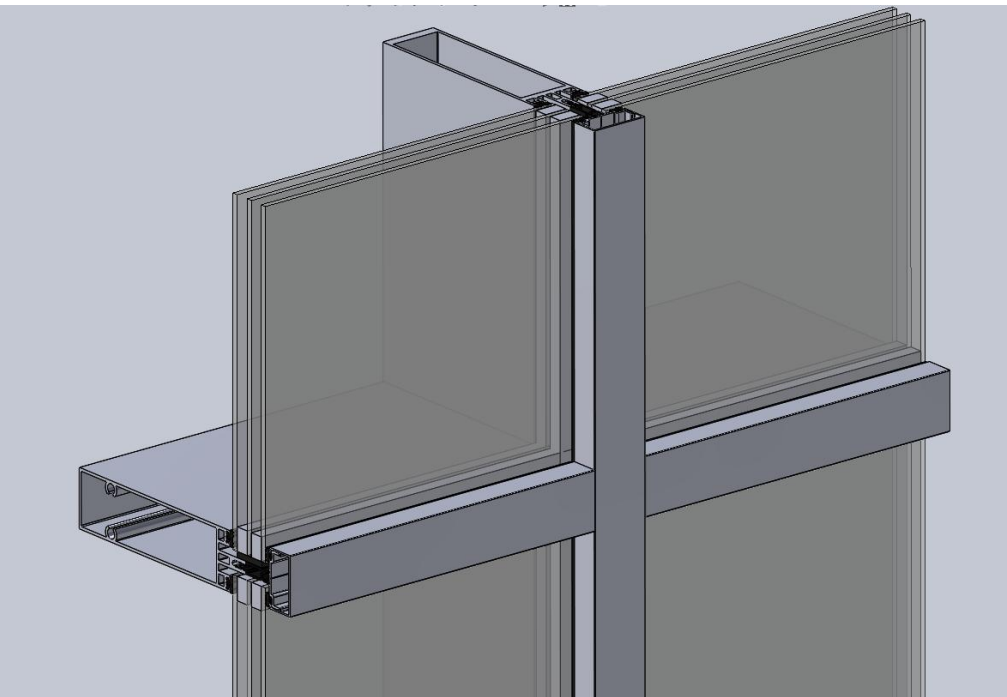
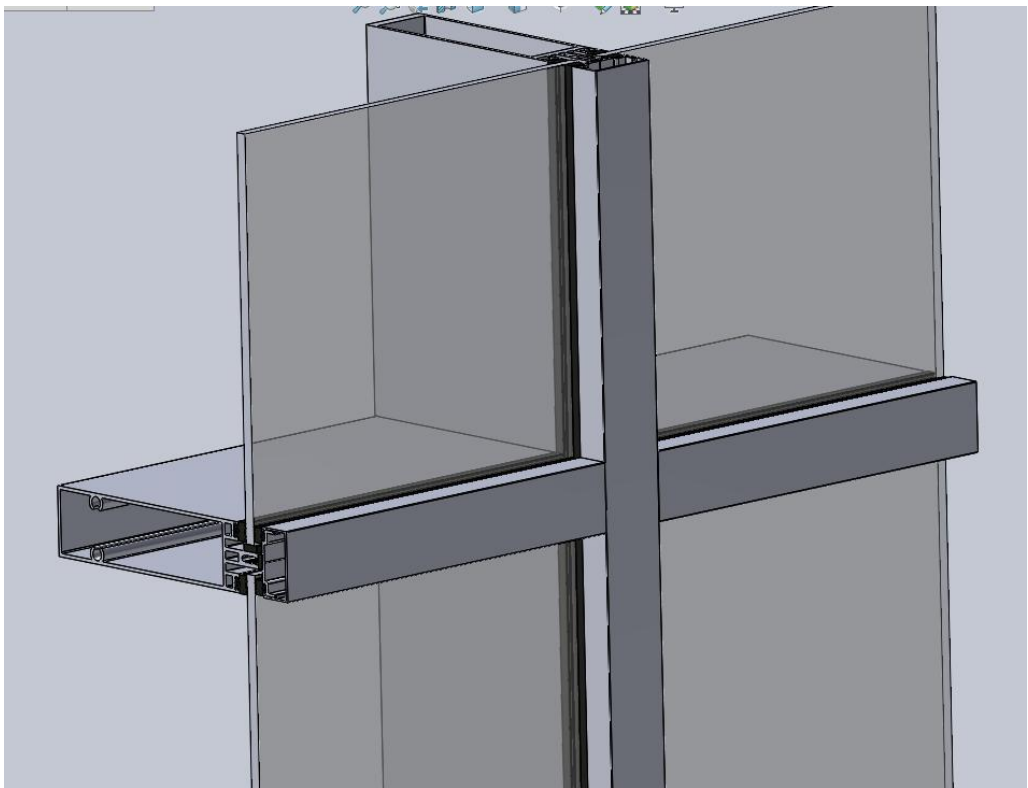
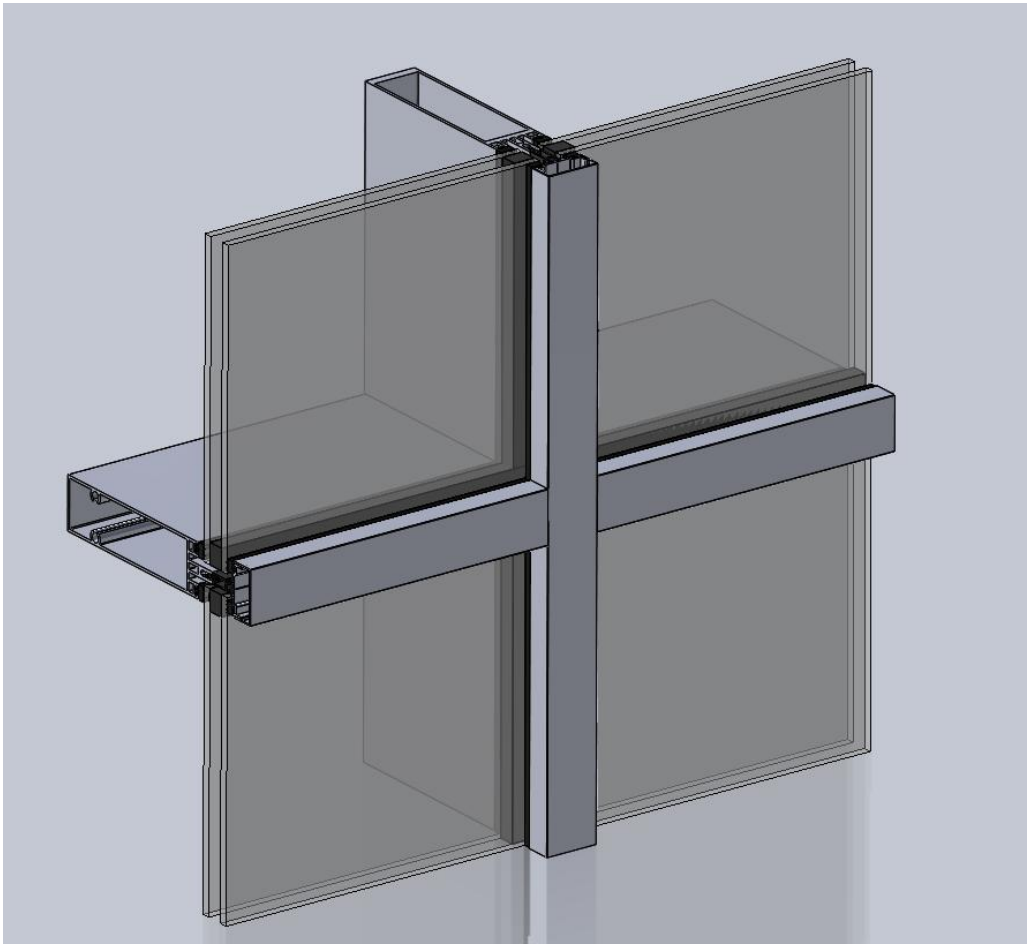
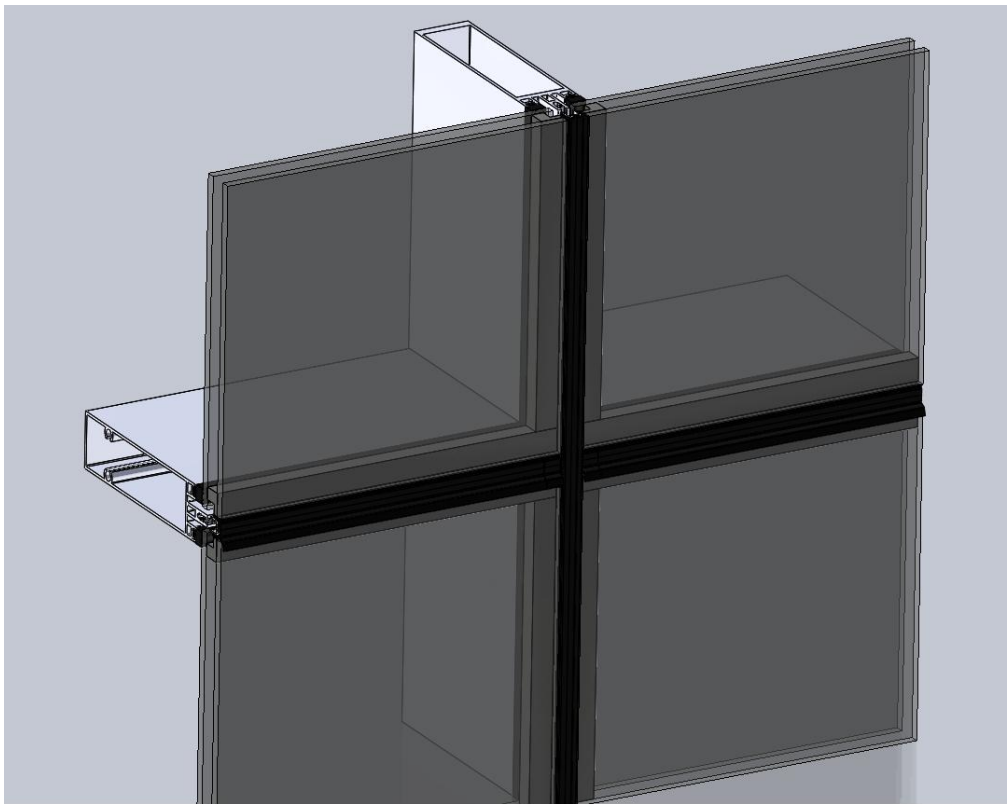
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Outstanding Appearance

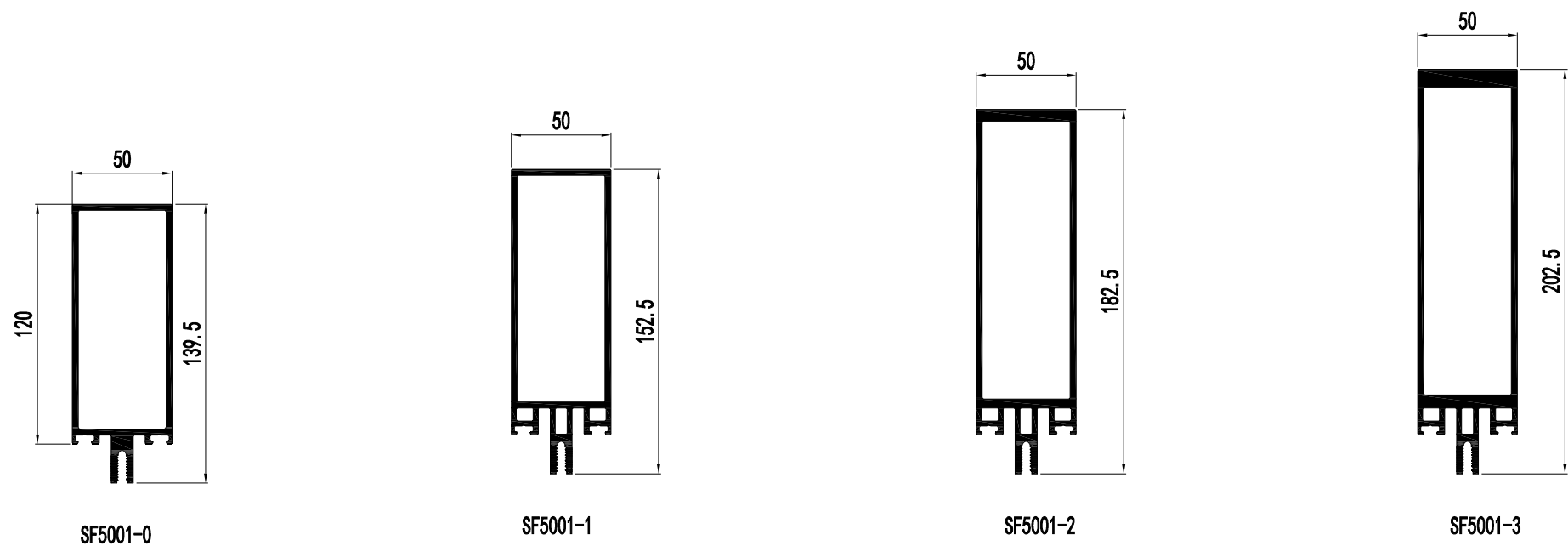
With its slim profile of only 50mm on the front face, the aluminum alloy frame provides excellent aesthetic appeal and significantly enhances the natural lighting performance of glass curtain walls.

This system can be designed with different facade styles, including visible and invisible frames, to meet various architectural styles and design requirements.

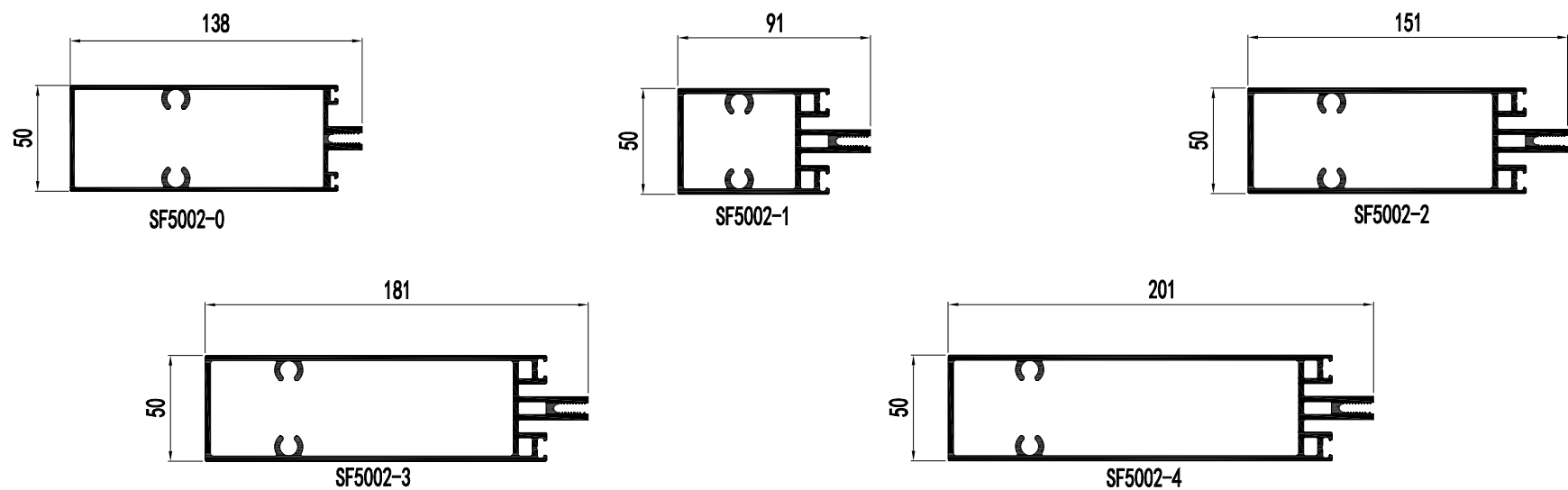


Wide Selection Of Glass Options

This curtain wall system can be equipped with glass of various thicknesses ranging from 6mm to 42mm, including single-layer, double-layer, and even triple-layer double-insulated glass, providing a rich selection of glass compositions.



Profile No.	Ix moment of inertia (mm ⁴)	Iy moment of inertia (mm ⁴)	Wx1 section modulus (mm ⁴)	Wx2 section modulus (mm ⁴)	Cross-sectional area (mm ²)	Moment of Area (mm ³)	Weight (kg/m)
SF5001-0	245.046	44.281	34.602	35.678	1190.53	24.195	3.238
SF5001-1	322.617	50.396	44.610	40.236	1367.723	29.673	3.720
SF5001-2	655.775	63.545	72.026	71.707	1745.723	48.442	4.748
SF5001-3	1016.793	73.730	97.978	102.995	2085.723	66.549	5.673

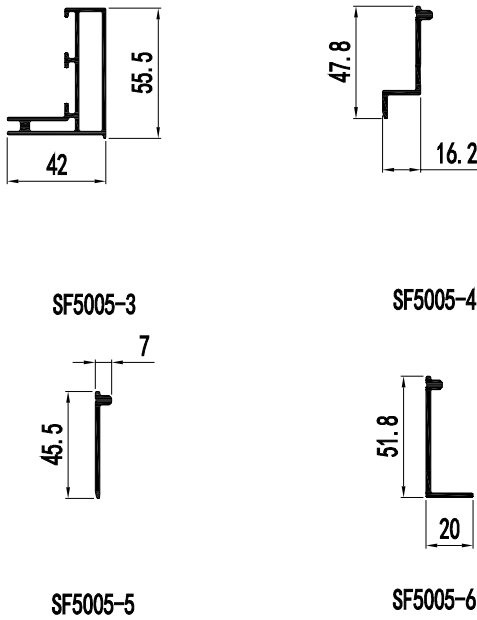
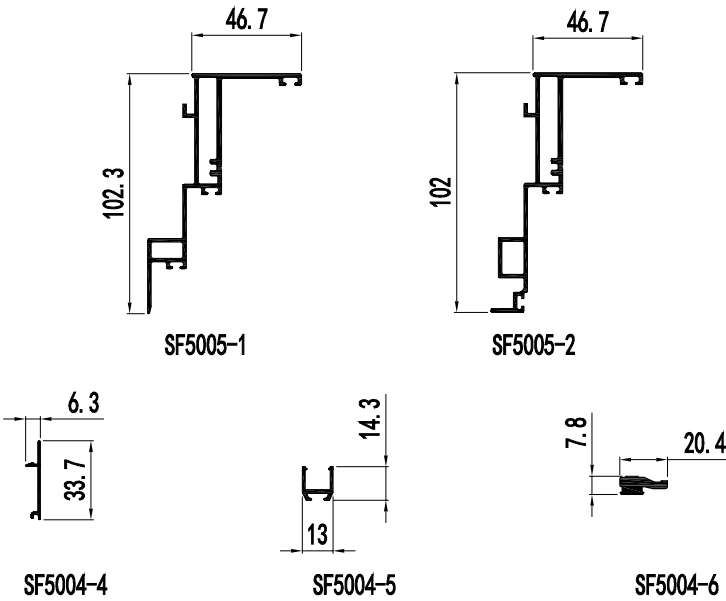
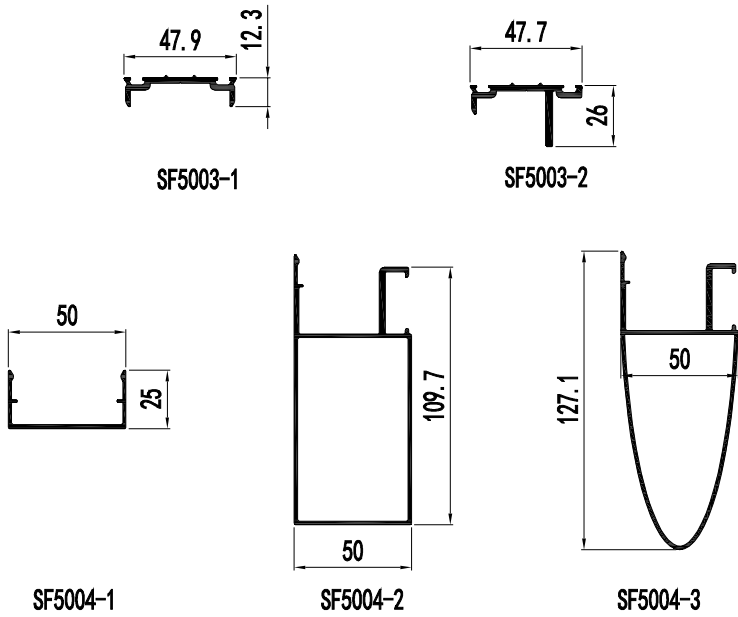


Profile No.	IX MOI & IX MOI (mm ⁴)	IX MOI & IY MOI (mm ⁴)	Wx1 section modulus & IX MOI (mm ⁴)	Wx2 section modulus & IX MOI (mm ⁴)	Wy1 section modulus & IX MOI (mm ⁴)	Wy2 section modulus & IX MOI (mm ⁴)	Cross-sectional area (mm ²)	Moment of Area Sx (mm ³)	Moment of Area Sy (mm ³)	Weight (kg/m)
SF5002-0	34.999	182.87	14	13.999	27.478	25.595	887.174	8.086	17.989	2.413
SF5002-1	30.206	69.695	12.083	12.082	15.127	15.513	1007.851	7.653	11.653	2.741
SF5002-2	47.144	298.492	18.858	18.857	41.212	37.990	1307.851	11.216	28.278	3.557
SF5002-3	55.612	498.600	22.245	22.244	57.609	52.789	1457.851	12.997	38.614	3.965
SF5002-4	61.258	669.320	24.504	24.503	69.631	63.820	1557.851	14.184	46.190	4.237

Profile No.	Cross-sectional area(mm ²)	Weight (kg/m)
SF5003-1	160.255	0.436
SF5003-2	221.247	0.602
SF5004-1	158.824	0.432
SF5004-2	543.998	1.480
SF5004-3	527.016	1.433

Profile No.	Cross-sectional area(mm ²)	Weight (kg/m)
SF5004-4	46.568	0.127
SF5004-5	56.000	0.152
SF5004-6	105.629	0.287
SF5005-1	459.671	1.250
SF5005-2	474.810	1.291

Profile No.	Cross-sectional area(mm ²)	Weight (kg/m)
SF5005-3	332.133	0.903
SF5005-4	140.729	0.383
SF5005-5	108.233	0.294
SF5005-6	158.265	0.430



Efficient installation & safety

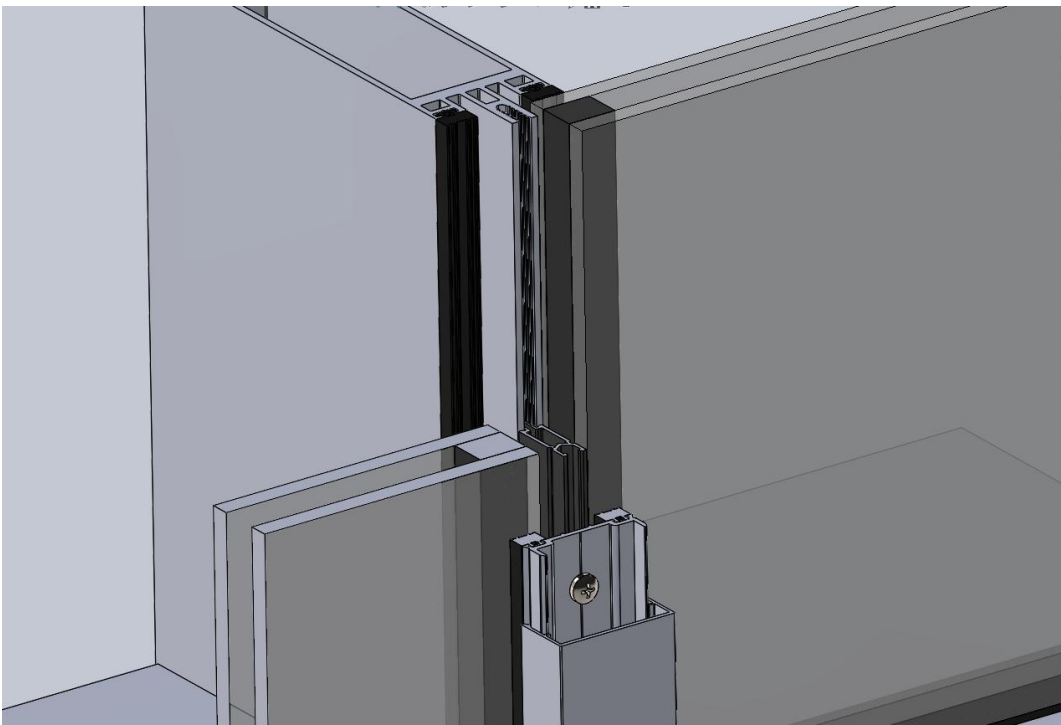
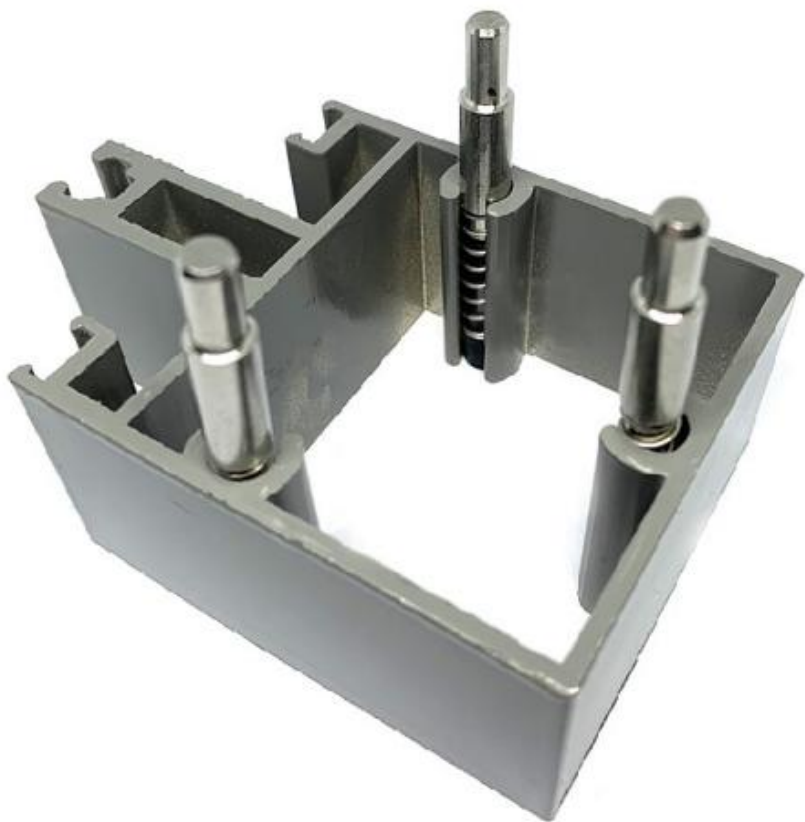
To provide you with better service
Bring beauty to your life

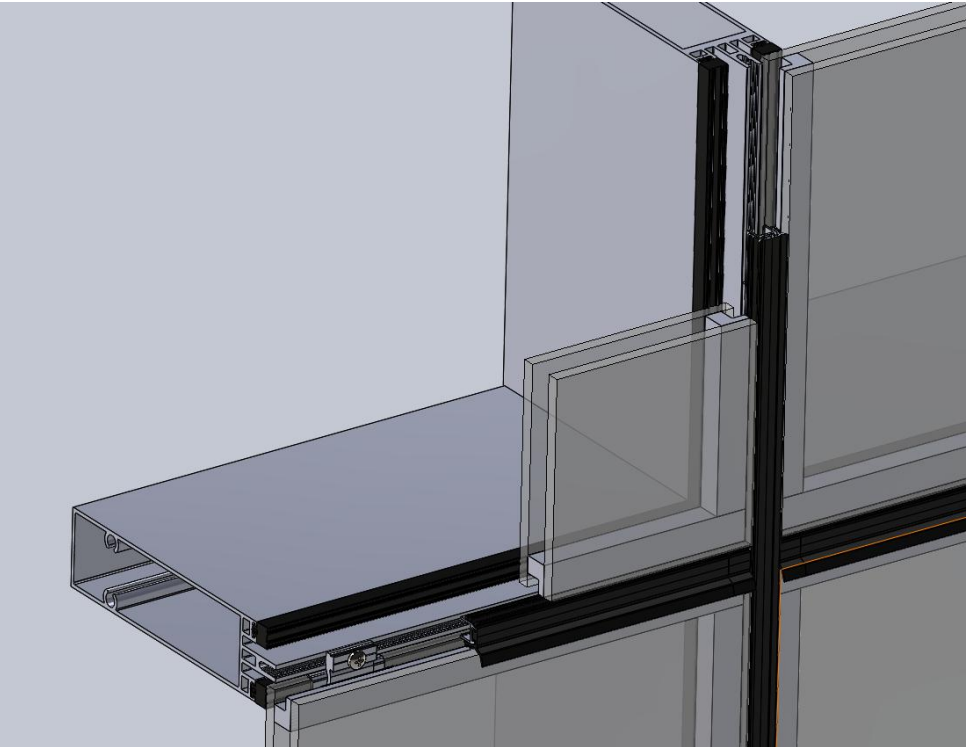
Secure Connection

The installation screws are tightly fastened to the aluminum profile over a length of up to 20mm, ensuring a secure and reliable connection between the glass and the profile.

Convenient Installation

The beams and columns are connected using spring-loaded locking pins, which eliminates the need for additional installation brackets and reduces the difficulty of on-site construction, thus improving efficiency.



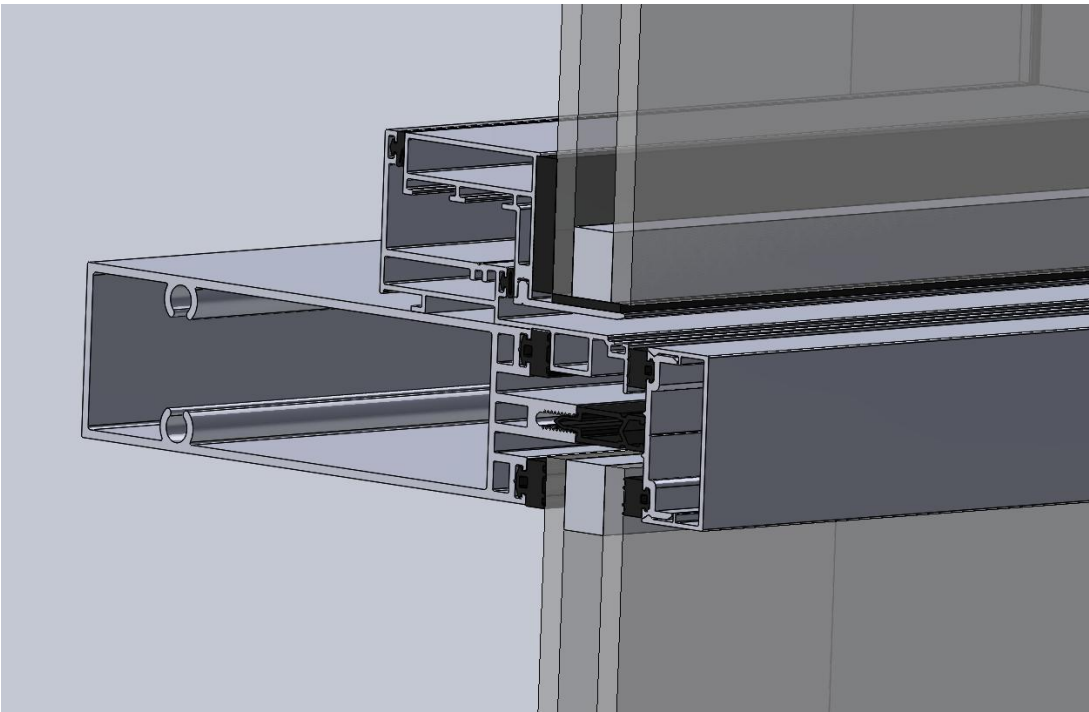


Reliable Invisible Curtain Wall Frame

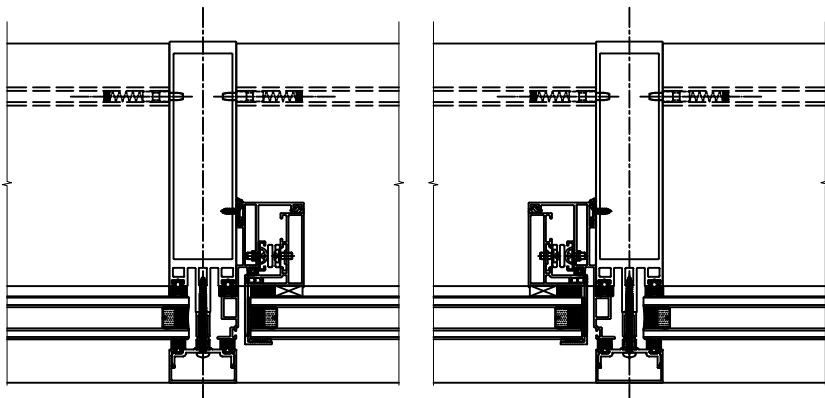
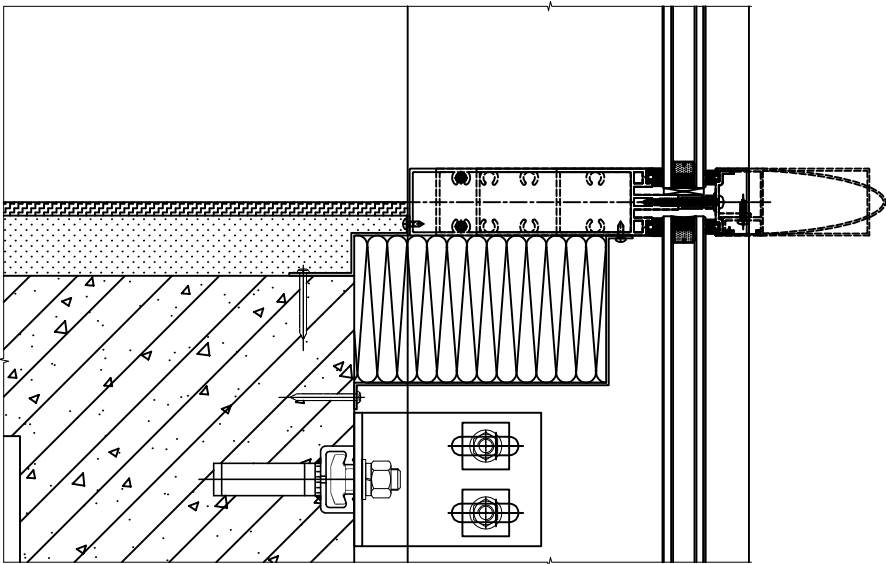
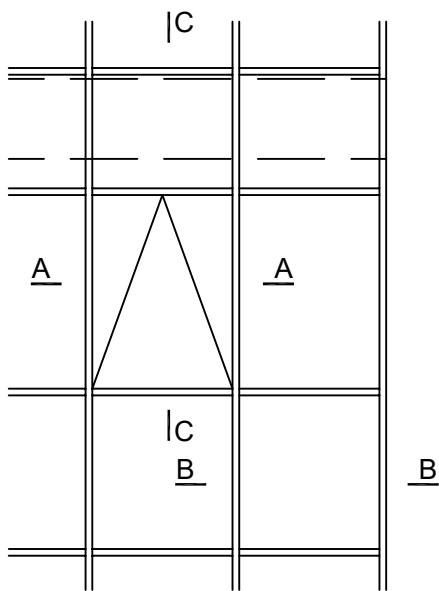
In the invisible frame curtain wall system, an effective physical connection is incorporated between the glass and the aluminum frame, ensuring a reliable and stable connection.

Advanced Opening System

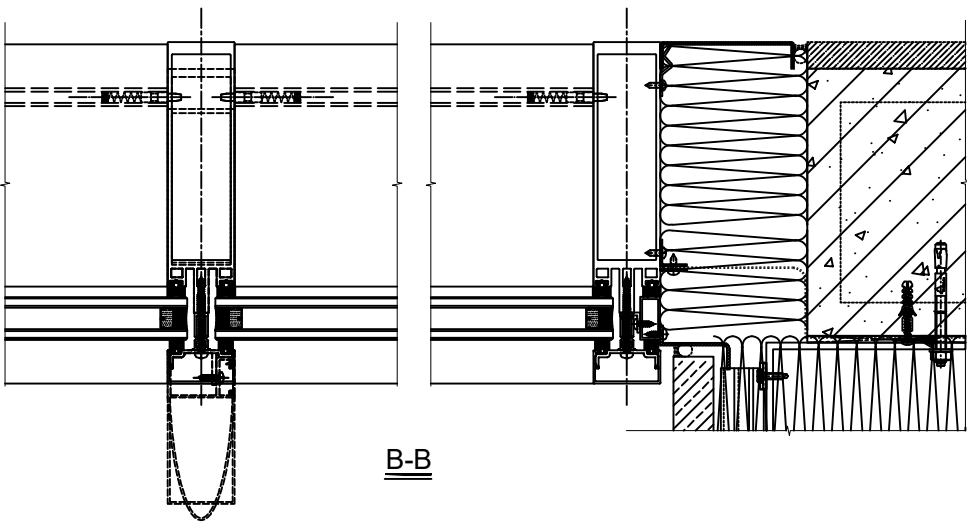
The open windows are integrated with the curtain wall, ensuring not only a unified and harmonious appearance but also significantly improved sealing performance.



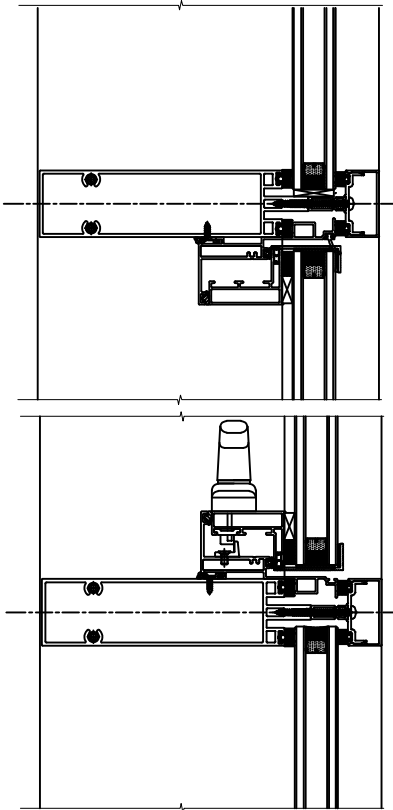
Air Infiltration Test -(ASTM E283)	The rate of air leakage at +300 Pa was within allowable value
Water Penetration Test -Static (ASTM E331)	No water leakage was observed
Water Penetration Test Dynamic(AAMA501.1)	No water leakage was observed.
Structural Test at 50% and 100% of Design Pressure -Static(ASTM E330)	The deflection of framing members was smaller than span/175. Deflection of glass was smaller than span/60. No breakage was observed under the specified pressure of +2.31 kPa/-2.31 kPa.
Structural Proof Test at 75% and 150% of Design Pressure -Static(ASTM E330)	The residual deflection of frame members was smaller than span/1000. No breakage was observed under the specified pressure of +3.47 kPa/-3.47 kPa.
With double-insulated glass, the U-value can reach up to 1.5W/(m ² ·K).	
With double-laminated insulated glass, the sound insulation performance can reach up to 52dB.	



A-A



B-B



C-C

Mature structure, superior performance, Simple processing and low processing cost

Exposed Frame Curtain Wall

Install

Advantage 1

The exposed frame curtain wall glass panels are installed on the beams on top of load-bearing pads, and are pressed horizontally and vertically by aluminum alloy pressing profiles at fixed distances, on top of pressing profiles is aluminum alloy cover, which ensure reliable installation and good decorative effects.

Tightness

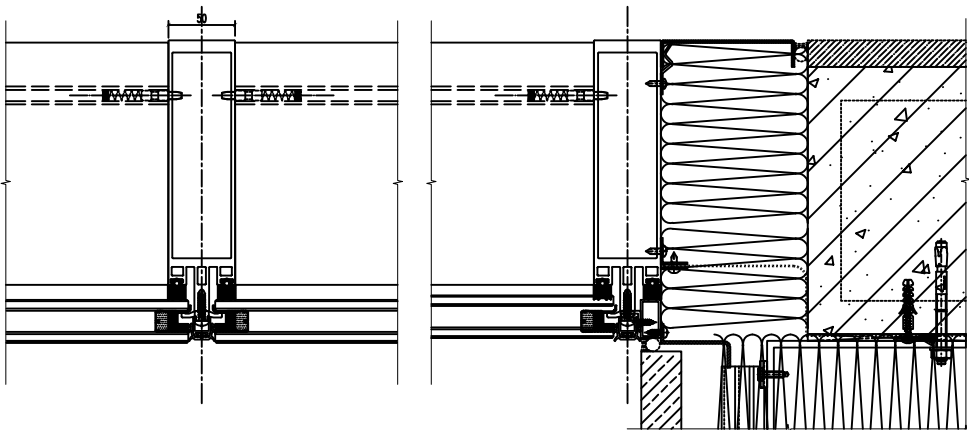
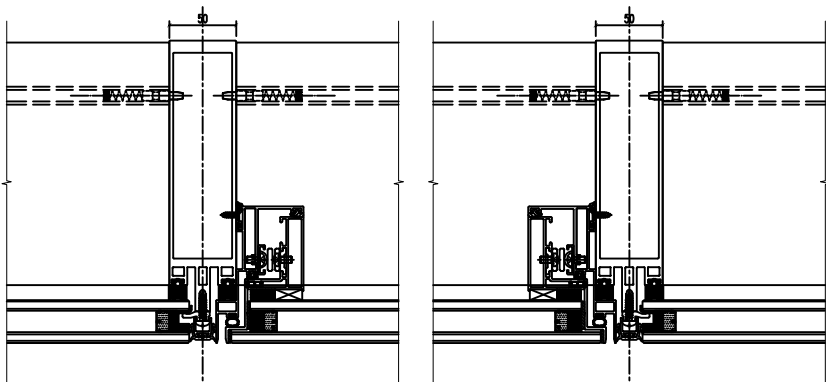
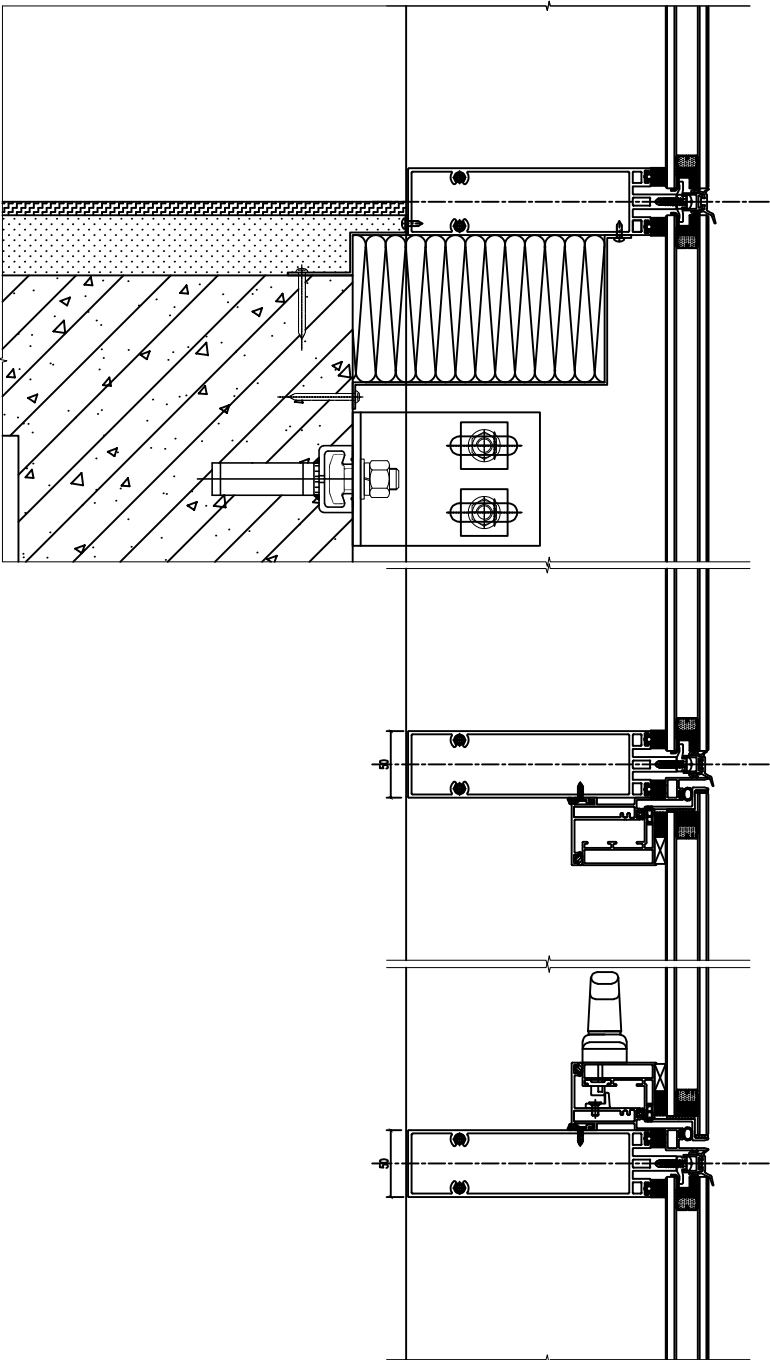
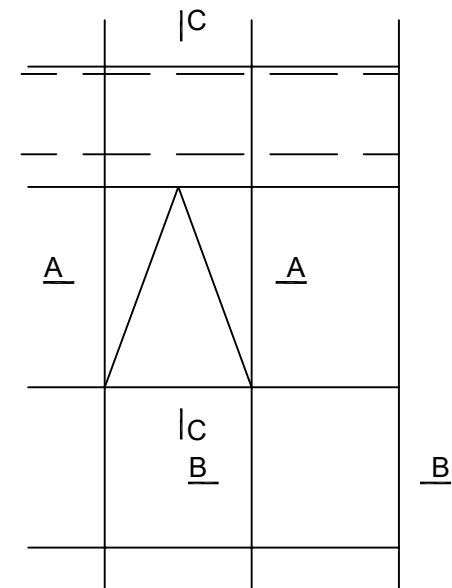
Advantage 2

All components are processed in the factory by computer controlled processing centers, which ensures the processing quality. The curtain wall are all processed in the factory, greatly reducing the workload on site, and at the same time, the precision and quality of processing and assembly are relatively easy to control.

Stablize

Advantage 3

The connection between the beam and the column adopts a telescopic structure, which meets the requirements of the telescopic deformation of the beam due to the temperature difference, eliminates the telescopic noise of the curtain wall, and improves the anti-displacement ability of the system.



C-C

Invisible Stick glass curtain wall is a new comprehensive technology product

Invisible Stick Curtain Wall

Exterior

Advantage 1

The Invisible Stick curtain wall has a strong decorative effect, because its color is gorgeous, crystal clear like gemstones, the metal frame is not exposed on the surface of the curtain wall, and large pieces of glass are connected together, which looks very beautiful, making a building like a crystal.

Secure

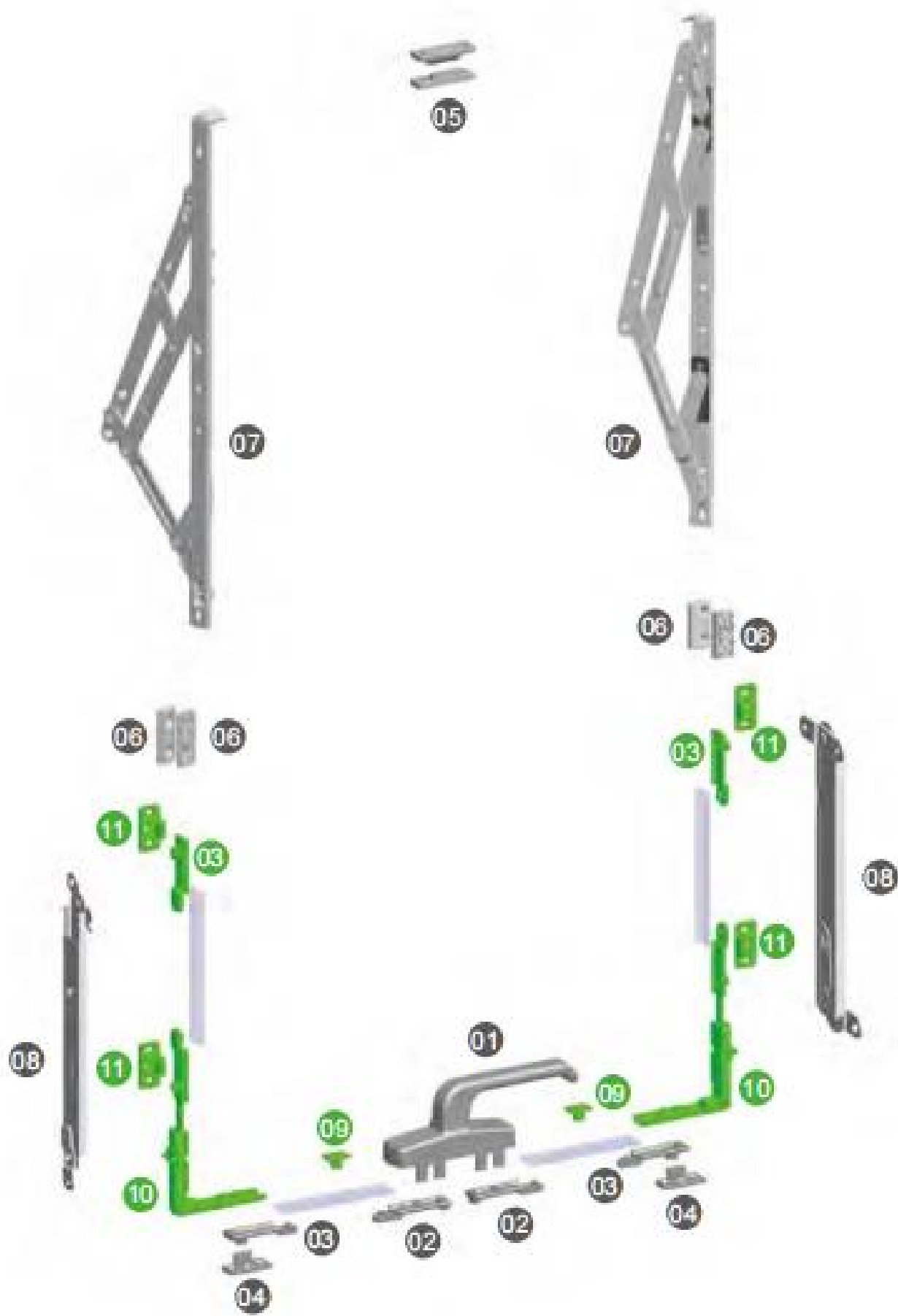
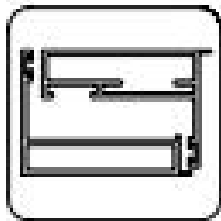
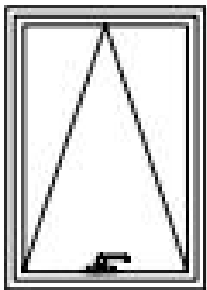
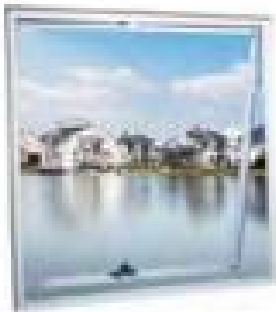
Advantage 2

It has excellent anti-seismic performance. Since the glass is bonded to the metal frame with structural adhesive, the structural adhesive has very good elasticity and can absorb vibration and deformation, so the anti-seismic performance of the curtain wall is very superior.

Diversity

Advantage 3

Since the design style of the Invisible Stick glass curtain wall is very flexible, it can be perfectly applied to various buildings. It can be designed according to the requirements of the building itself, and it can be adjusted reasonably in the actual construction. Stronger applicability, More flexible .



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	Friction Hinges	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	

Sliding brace and wind brace are optional:

HC680 Friction Hinges	HC650 Friction Hinges	SC350 wind brace
		

Configuration instructions

1. Friction Hinges are selected according to the size of the specific window type, referring to the introduction of the Friction Hinges series
2. Optional wind brace will help improve the safety factor of windows
3. Green graphic hardware is an optional accessory.