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BRINGING IN SUNLIGHT AND FRESH AIR,
THE OPEN VIEW BRINGS YOU CLOSER TO NATURE.

MAS138

GOLDEN SMITH

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MAS138

Minimalism，Beauty in Simplicity
Minimal Decor, Maximum Quality

ALUMINUM PROFILE &NODE DIAGRAM

■PROFILE DIAGRAM

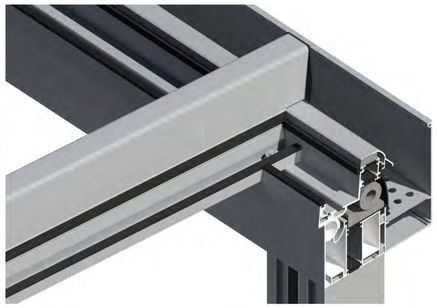
POST: These structural elements support the beams and rafters,providing stability and strength to the sunroom,with the cavity and section wall thickness of the profile optimized according to mechanical calculations based on load bearing requirements.

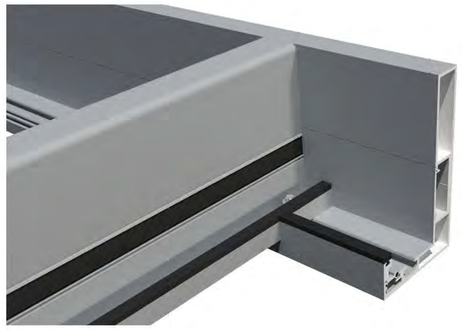
MAIN BEAM: The connection of the main beam and the front & rear beams uses a (LAP mechanics) mortise and tenon joint structure.After installing the top panels,the entire roof forms an insulated thermal break structure.

NODE DIAGRAM■

01 Connection of main beam and front transfer beam

After the main beam is joined to the transfer beam and front beam using a modular assembly method, industrial bolts are used to reinforce and secure the joint.



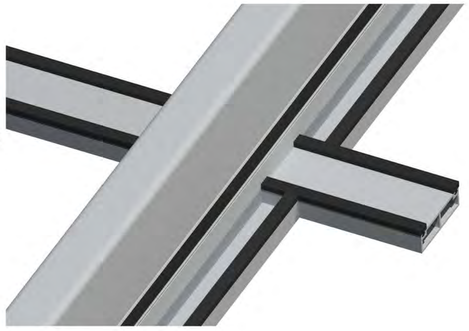


02 Connection of main beam and wall beam

Main beams are connected to the wall beam by a modular assembly with reinforced fasteners using industrial bolts.

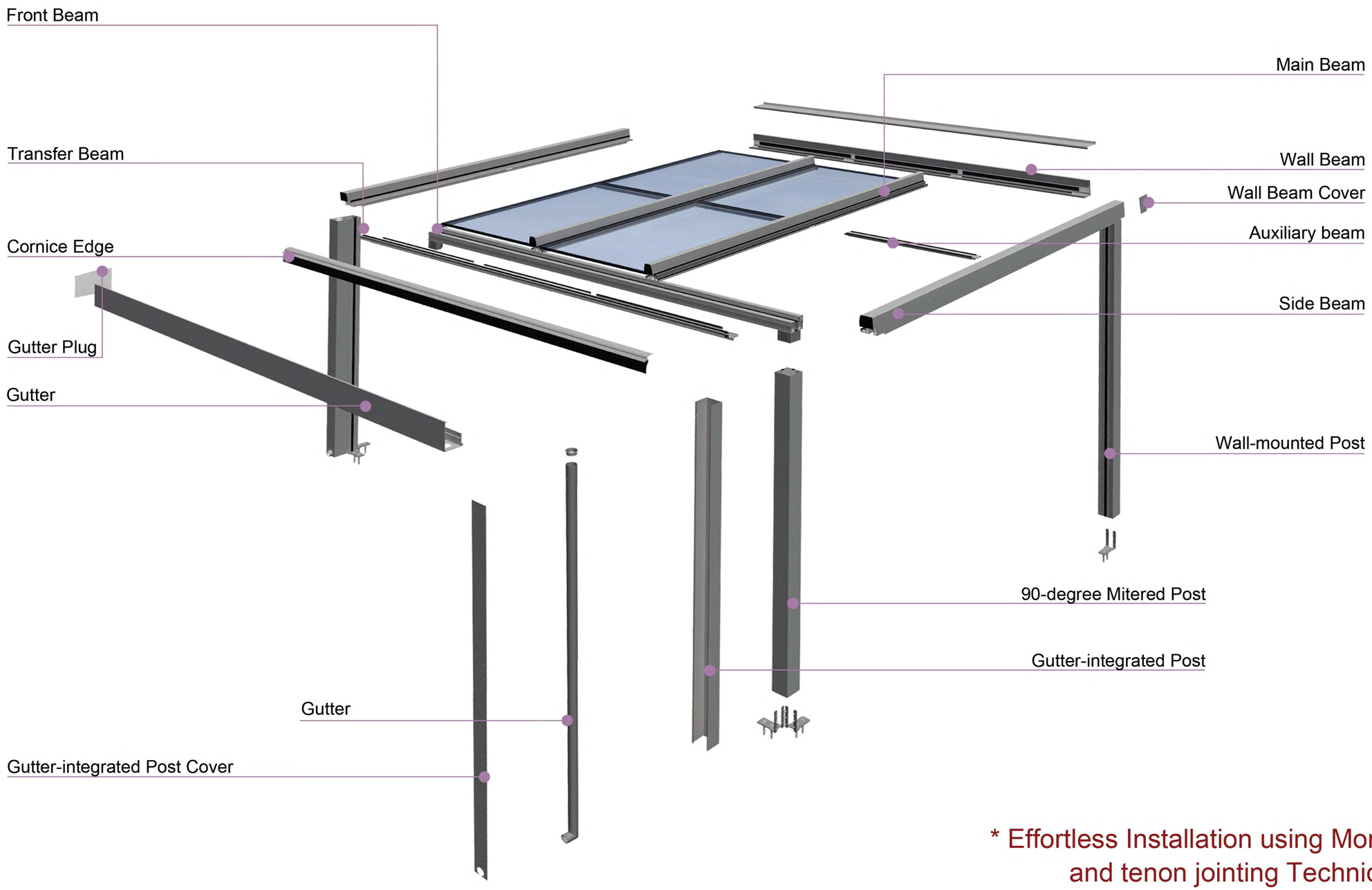
03 Connection of main beam and auxiliary beam

Mortise and tenon is used in the lap joint between the main and auxiliary beams.

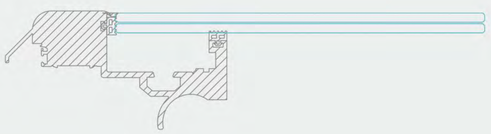


MAS138 series features mortise and tenon joints,with advantage of earthquake resistance and durability,effectively minimizing structural damage and cutting maintenance costs.Moreover, these joints enhance aesthetics with intricate detailing and versatility in shape and size,making them ideal for diverse architectural designs and styles.

COMPONENT DIAGRAM



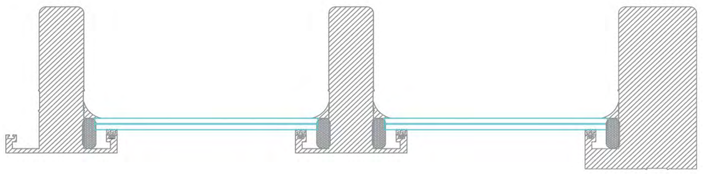
* Effortless Installation using Mortise and tenon jointing Technique.

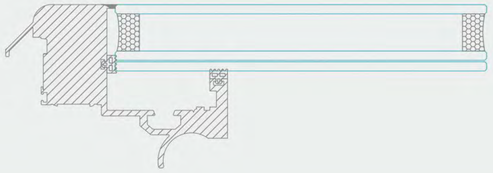


Standard Roof Glass Specification | 01

5G+0. 76PVB+5G

■Sectional View

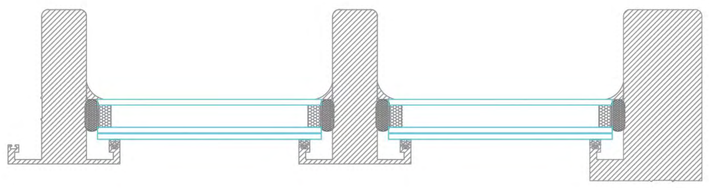




Roof Glass Option | 02

5G+0. 76PVB+5G+20A+5G

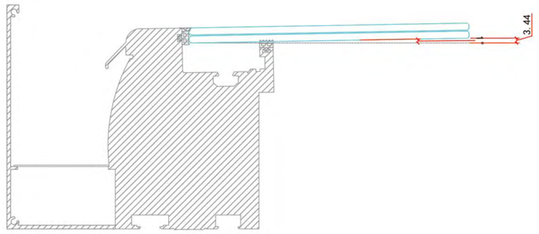
■Sectional View



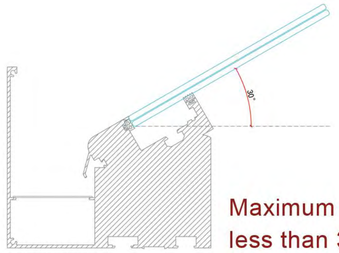
ROOF GLASS CONFIGURATION

SUNROOM SLOPE SPECIFICATIONS

■ROOF SLOPE



To ensure optimal drainage, Roof Slope ≥3 degrees



Maximum roof slope less than 30 degrees.

MAIN BEAM SPAN AND SNOW LOAD

■Maximum Main Beam Span of MAS138 SERIES (Unit: M)

Snow Load	Snow Load (kg/m²)	0	6.25	12.5	25	37.5	50	62.5	75	100	125	150
	Snow Depth(cm)	0	5	10	20	30	40	50	60	80	100	120
Maximum span of the main beam when using 5+0.76+5 glass on the roof		5.0	4.8	4.6	4.4	4.2	4.0	3.8	3.6	3.4	3.2	3.0
Maximum span of the main beam when using (5+0.76+5)+20A+5 glass on the roof		4.6	4.6	4.4	4.2	4.0	3.8	3.6	3.4	3.2	3.0	2.8

Note:

1.This table lists the maximum recommended main beam lengths for various snow load in different weather conditions.

2.Main beam length calculations in the table assume a beam spacing of 1 meter. For beam spacings greater than 1 meter, lengths must be calculated and verified based on actual conditions.

3.The main beam lengths consider the safety of profile members under snow loads and control deflection for structural integrity and visual appeal.

BUILDING STYLE

■Wall-mounted Shed Roof (Back connected)

■Wall-mounted Shed Roof (Side connected)

■Wall-mounted Gable Roof (Side connected)

■Free-standing Gable Roof

SUNROOM CONFIGURATION

■Product list of MAS138 sunroom with standard size & configuration

Sunroom Structure	Size (Length*Width)	Height (Front&Rear)	Roof type
	3660mm*3050mm (12ft*10ft)	F:2600mm B:3138mm (F:8.5ft B:10.3ft)	Shed roof, slope 10°
	Standard configuration		
	Roof: 5+0.76PVB+5 laminated glass roof	Facade: Frameless sliding door	
	Model Number: MAS138DP12A		

Sunroom Structure	Size (Length*Width)	Height (Front&Rear)	Roof type
	4270mm*3660mm (14ft*12ft)	F:2600mm B:3245mm (F:8.5ft B:10.6ft)	Shed roof, slope 10°
	Standard configuration		
	Roof: 5+0.76PVB+5 laminated glass roof	Facade: Frameless sliding door	
	Model Number: MAS138DP14A		

Sunroom Structure	Size (Length*Width)	Height (Front&Rear)	Roof type
	6100mm*3660mm (20ft*12ft)	F:2600mm B:3245mm (F:8.5ft B:10.6ft)	Shed roof, slope 10°
	Standard configuration		
	Roof: 5+0.76PVB+5 laminated glass roof	Facade: Frameless sliding door	
	Model Number: MAS138DP20A		

MAS138
Shed Roof Sunroom

Suitable for wall mounting installation.It offers three standard specifications and can be customized in size and design to meet specific needs.

Standard Configuration: Features 5+0.76+5 double-layer tempered laminated safety glass for the top surface and a frameless glass sliding door for the facade.Its simple, transparent design brings you closer to nature,making it perfect for a three-season sunroom,foyer,or flower room where high heat preservation isn't crucial. Optional frameless folding doors are also available for the facade.

Advanced Configuration: The roof uses (5+0.76+5)+20A+5 triple-layer tempered laminated insulating glass,while the facade features thermal break doors and windows.This version provides superior heat preservation and sealing, making it ideal for a four-season sunroom.

Both of them can be further enhanced with optional additions such as roof skylights, roof sunshade, and outdoor blind for facade.

Sunroom Structure	Size (Length*Width)	Height (Front&Rear)	Roof type
	3660mm*3050mm (12ft*10ft)	F:2600mm B:3400mm (F:8.5ft B:11.2ft)	Gable roof, slope 28°
	Standard configuration		
	Roof: 5+0.76PVB+5 laminated glass roof Facade: Frameless sliding door		
	Model Number: MAS138RZ12A		

Sunroom Structure	Size (Length*Width)	Height (Front&Rear)	Roof type
	4270mm*3660mm (14ft*12ft)	F:2600mm B:3560mm (F:8.5ft B:11.7ft)	Gable roof, slope 28°
	Standard configuration		
	Roof: 5+0.76PVB+5 laminated glass roof Facade: Frameless sliding door		
	Model Number: MAS138RZ14A		

Sunroom Structure	Size (Length*Width)	Height (Front&Rear)	Roof type
	6100mm*3660mm (20ft*12ft)	F:2600mm B:3560mm (F:8.5ft B:11.7ft)	Gable roof, slope 28°
	Standard configuration		
	Roof: 5+0.76PVB+5 laminated glass roof Facade: Frameless sliding door		
	Model Number: MAS138RZ20A		

MAS138
Gable Roof Sunroom

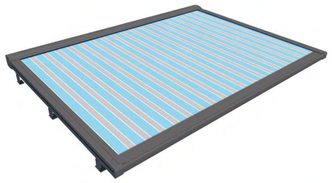
Suitable for both wall-mounted and freestanding installations. It offers three standard specifications and can be customized in size and design to meet specific needs.

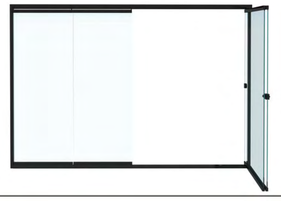
Standard Configuration: Features a herringbone-patterned top surface with 5 + 0.76 + 5 double-tempered laminated safety glass,perfect for applications like frameless sliding doors on the facade, ideal for creating three-season sunrooms and maintaining optimal heat retention in entrances,gardens,and more.Alternatively,you can adopt frameless folding door option on the facade.

Advanced Configuration: Equipped with (5+0.76+5)+20A+5 triple-layer tempered laminated insulating glass on the roof and thermal break aluminum doors and windows on the facade.

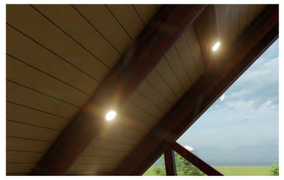
This configuration offers superior heat preservation and sealing compared to the standard version, making it suitable for year-round sunroom.

Both of them can be further enhanced with optional additions such as roof skylights, roof sunshade,and outdoor blind for facade.

Product name	Sunshade
Product picture	
Product description	1. Suitable for sunroom roofs, skylights, terraces, balconies, etc 2.The design of the fully enclosed aluminum cover box provides good protection for the driving motor and transmission components 3. Using raw acrylic fabrics from Sauleda and Dickson, it is waterproof, has high color fastness, and can block over 98% of ultraviolet rays.

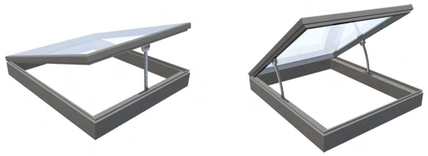
Product name	Frameless folding door
Product picture	
Product description	1. The fully open folding door can be fully opened, meeting the user's requirements for ventilation and lighting, and greatly retaining the function of indoor and outdoor transition space. 2. A fully open folding door can reach a maximum of 3 meters height and a maximum width of 0.9 meters for a single door leaf. 3.Profile: 6063-T5 aluminum alloy Glass: 8mm, 10mm, 12mm Tempered glass, ultra white tempered glass and laminated glass (5mm+0.76+4mm or 6mm+0.76+5mm) Plastic parts: high-strength PA66 and POM plastics Surface treatment of profiles: powder spraying, wood grain transfer printing

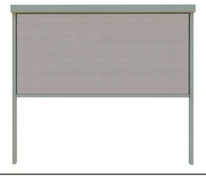
Product name	Frameless sliding door
Product picture	
Product description	1.The multi track sliding door can open 3/4, meeting the user's requirements for ventilation and lighting. With a larger ventilation area, it solves the pain point of hot and stuffy summer for sunroom. 2.The multi track sliding door leaf can reach a maximum of 2.6 meters and a maximum width of 1 meter. Generally suitable for first floor courtyards. 3.Profile: 6063-T5 aluminum alloy Glass: 10mm tempered glass, ultra white tempered glass, and laminated glass Hardware accessories: 304 stainless steel pulley Surface treatment of profiles: powder spraying, wood grain transfer printing

Product name	Starry roof light system
Product picture	
Product description	1. LED spotlights: 24V, 3W spotlights (equipped with a 1-meter connecting cable); Each spotlight is equipped with an additional 2-meter extension cable. 2. LED spotlight driver: AC110/220-DC24V Transformer protection level IP67 24V, 36W transformer:122 * 35 * 22 (mm) can connect up to 10 LED lights, and can drive transformers with a power of 36*0.8 24V, 60W transformer:146 * 35 * 22 (mm) can connect up to 16 LED lights, with a driving power of 60 * 0.8 24V,80W transformer : 155 * 43 * 22 (mm), 10<can connect LED lights ≤ 20, can drive power 80 * 0.8 24V, 150W transformer:216 * 52 * 20 (mm), 20<can connect LED lights ≤ 40, can drive power 150 * 0.8 24V, 300W Transformer:216 * 52 * 20 (mm), 40<can connect LED lights ≤ 80, can drive power 300 * 0.8

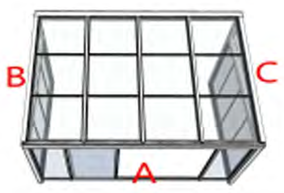
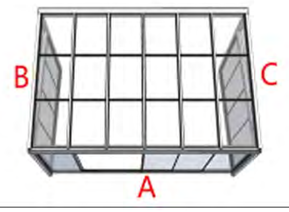
Product name	MT85 aluminum thermal break window
Product picture	
Product description	1. Using "Huajian" ultra-high-precision 6063-T5 profile. The thickness of the main profile is 21.8mm. 2. TPSS 5+12A+5+12A+5 three-layer hollow tempered glass (super warm edge) as standard. 3. Customized drainage hole cover can ensure smooth drainage in heavy rain, and the windproof plate can effectively blocks mosquitoes and proof the rainwater backflow in strong winds. 4. The surface treatment method of the profile adopts powder spraying technology, which has the characteristics of environmental, metallic texture, strong weather resistance, and self-cleaning.

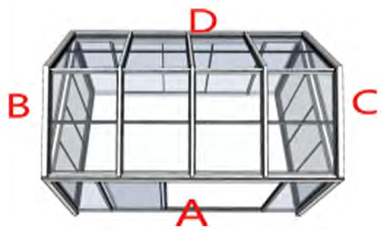
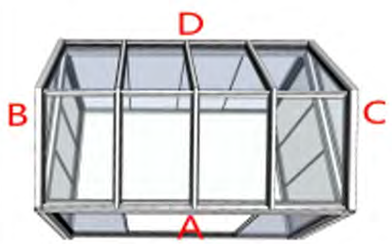
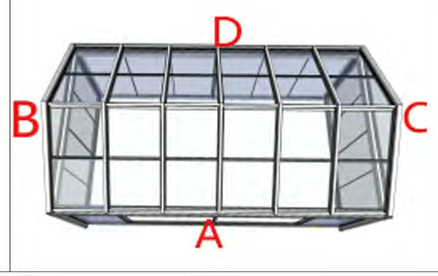
Product name	MT85 aluminum thermal break door
Product picture	
Product description	1. Using "Huajian" ultra-high-precision 6063-T5 profile. The thickness of the main profile ≥1.8mm. 2. TPSS 5+12A+5+12A+5 three-layer hollow tempered glass (super warm edge) as standard. 3. Customized drainage hole cover can ensure smooth drainage in heavy rain, and the windproof plate can effectively blocks mosquitoes and proof the rainwater backflow in strong winds. 4. The surface treatment method of the profile adopts powder spraying technology, which has the characteristics of environmental, metallic texture, strong weather resistance, and self-cleaning.

Product name	Aluminum upper suspended skylight /Thermal break aluminum skylight
Product picture	
Product description	1.The frame and sash corners are all made of seamless welded waterproof structures 2.Hidden integrated hinge structure design for more flexible opening 3.Two sealing designs between window frames and sashes for better waterproofing and sealing **Aluminum upper suspended skylight:** 1.Installation method: impressed notch installation **Thermal break aluminum skylight:** 1.Insulation adopts a combination of cavity type 20mm and 24mm 2.Installation method: embedded installation

Product name	Outdoor blind
Product picture	
Product description	1. Suitable for sunroom facades, building doors and windows, courtyard leisure spaces, and balcony facades 2.Aluminum frame, surface electrostatic powder spraying treatment; 3. Using fiberglass and polyester sunny fabrics, it provides shade, rain and fire resistance, antibacterial and moisture-proof, anti-static, tear resistance, self-cleaning function, and can resist 99.8% of UV damage.

MAS138 SUNROOM OPTIONS

No.	Size: Length*Width	Height: Front&Rear	Required		Options of the facade						Options of the roof device			
1	3660mm*3050mm (12ft*10ft)	F:2600mm R:3138mm (F:8.5ft R:10.3ft)	1:aluminum frame+laminated glass roof	Or 2; aluminum frame+laminated insulating glass roof	Options / Facades	Framelss sliding door	Framelss folding door	MT85 series windows&doors		Ourdoor blind	Ordinary skylight	Thermal break skylight	Sunshade	Starry roof lights
			5249	5552	Front facade A:(L*H) 3460mm*2363mm	2900	3729	P1	2762	801	431	624	1480	166
					Left facade B:(W*H) 2850mm*2363mm	2348	3093	P2	1934	691				
					Right facade C:(W*H) 2850mm*2363mm	2348	3093	P3	1934	691				
2	4270mm*3660mm (14ft*12ft)	F:2600mm R:3245mm (F:8.5ft R:10.6ft)	1:aluminum frame+laminated glass roof	Or 2; aluminum frame+laminated insulating glass roof	Options / Facades	Framelss sliding door	Framelss folding door	MT85 series windows&doors		Ourdoor blind	Ordinary skylight	Thermal break skylight	Sunshade	Starry roof lights
			6906	7348	Front facade A:(L*H) 4070mm*2363mm	3314	4364	P4	3094	939	431	624	1740	276
					Left facade B:(W*H) 3460mm*2363mm	2900	3729	P5	2210	801				
					Right facade C:(W*H) 3460mm*2363mm	2900	3729	P6	2210	801				
3	6100mm*3660mm (20ft*12ft)	F:2600mm R:3245mm (F:8.5ft R:10.6ft)	1:aluminum frame+laminated glass roof	Or 2; aluminum frame+laminated insulating glass roof	Options / Facades	Framelss sliding door	Framelss folding door	MT85 series windows&doors		Ourdoor blind	Ordinary skylight	Thermal break skylight	Sunshade	Starry roof lights
			8978	9613	Front facade A:(L*H) 5900mm*2363mm	4834	6353	P7	4144	1519	431	624	2887	442
					Left facade B:(W*H) 3460mm*2363mm	2900	3729	P8	2210	801				
					Right facade C:(W*H) 3460mm*2363mm	2900	3729	P9	2210	801				

No.	Size: Length*Width	Height: Front&Rear	Required		Options of the facade						Options of the roof device			
1	3660mm*3050mm (12ft*10ft)	F:2600mm T:3400mm (F:8.5ft T:11.2ft)	1:aluminum frame+laminated glass roof	Or 2; aluminum frame+laminated insulating glass roof	Options / Facades	Framelss sliding door	Framelss folding door	MT85 series windows&doors		Ourdoor blind	Ordinary skylight	Thermal break skylight	Sunshade	Starry roof lights
			6713	7099	Front facade A:(L*H) 3460mm*2363mm	2900	3729	P1	2762	801	431	624	2445	166
					Left facade B:(W*H) 2850mm*2363mm	2348	3093	P2	1934	691				
					Right facade C:(W*H) 2850mm*2363mm	2348	3093	P3	1934	691				
					Rear facade D:(L*H) 3460mm*2363mm	2900	3729	P4	1768	801				
2	4270mm*3660mm (14ft*12ft)	F:2600mm T:3560mm (F:8.5ft T:11.7ft)	1:aluminum frame+laminated glass roof	Or 2; aluminum frame+laminated insulating glass roof	Options / Facades	Framelss sliding door	Framelss folding door	MT85 series windows&doors		Ourdoor blind	Ordinary skylight	Thermal break skylight	Sunshade	Starry roof lights
			8840	9365	Front facade A:(L*H) 4070mm*2363mm	3314	4364	P5	3094	939	431	624	2749	331
					Left facade B:(W*H) 3460mm*2363mm	2900	3729	P6	2210	801				
					Right facade C:(W*H) 3460mm*2363mm	2900	3729	P7	2210	801				
					Rear facade D:(L*H) 4070mm*2363mm	3314	4364	P8	2072	939				
3	6100mm*3660mm (20ft*12ft)	F:2600mm T:3560mm (F:8.5ft T:11.7ft)	1:aluminum frame+laminated glass roof	Or 2; aluminum frame+laminated insulating glass roof	Options / Facades	Framelss sliding door	Framelss folding door	MT85 series windows&doors		Ourdoor blind	Ordinary skylight	Thermal break skylight	Sunshade	Starry roof lights
			11271	12017	Front facade A:(L*H) 5900mm*2363m	4384	6353	P9	4144	1519	431	624	4420	552
					Left facade B:(W*H) 3460mm*2363mm	2900	3729	P10	2210	801				
					Right facade C:(W*H) 3460mm*2363mm	2900	3729	P11	2210	801				
					Rear facade D:(L*H) 5900mm*2363mm	4384	6353	P12	2928	1409				

Note: 1.For the laminated glass roof you can choose ordinary skylight.For the laminated insulating glass roof you need to choose thermal break skylight.If the skylight is less than one square meter,it will be calculated as one square meter.

2.For the aluminum frame+laminated insulating glass roof, the recommended facade configuration is MT85 series windows&doors which with better thermal insulation effect and more suitable for cold area.

3. The price of "aluminum frame + glass roof" includes the side triangular windows.

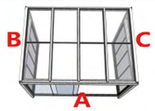
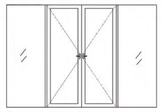
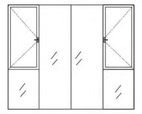
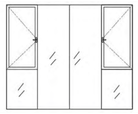
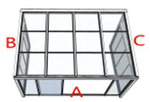
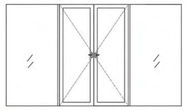
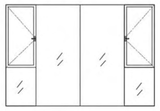
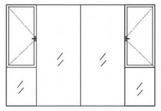
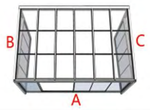
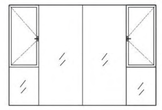
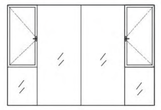
4. Glass specification for frameless sliding doors and frameless folding doors: 5+0.76+4 laminated glass.

5. Glass specification for MT85 series windows and doors: 5+12A+5+12A+5 laminated insulating glass.

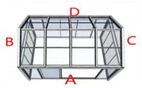
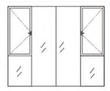
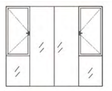
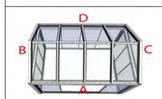
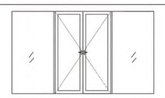
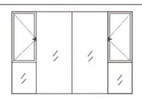
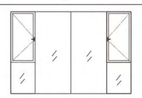
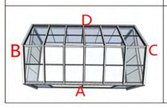
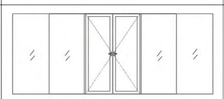
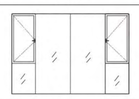
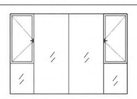
6. See the next page for elevations of MT85 series windows and doors (shed roof P1-P9, gable roof P1-P12)

MT85 SERIES WINDOWS & DOORS FACADE DISPLAY

■MAS138 Shed Roof

Size: Length*Width	Facades		
3660mm*3050mm (12ft*10ft)	Front facade A:(L*H) 3460mm*2363mm	Left facade B:(W*H) 2850mm*2363mm	Right facade C:(W*H) 2850mm*2363mm
	P1	P2	P3
			
4270mm*3660mm (14ft*12ft)	Front facade A:(L*H) 4070mm*2363mm	Left facade B:(W*H) 3460mm*2363mm	Right facade C:(W*H) 3460mm*2363mm
	P4	P5	P6
			
6100mm*3660mm (20ft*12ft)	Front facade A:(L*H) 5900mm*2363mm	Left facade B:(W*H) 3460mm*2363mm	Right facade C:(W*H) 3460mm*2363mm
	P7	P8	P9
			

■MAS138 Gable Roof

Size: Length*Width	Facades			
3660mm*3050mm (12ft*10ft)	Front facade A:(L*H) 3460mm*2363mm	Left facade B:(W*H) 2850mm*2363mm	Right facade C:(W*H) 2850mm*2363mm	Rear facade D:(L*H) 3460mm*2363mm
	P1	P2	P3	P4
				
4270mm*3660mm (14ft*12ft)	Front facade A:(L*H) 4070mm*2363mm	Left facade B:(W*H) 3460mm*2363mm	Right facade C:(W*H) 3460mm*2363mm	Rear facade D:(L*H) 4070mm*2363mm
	P5	P6	P7	P8
				
6100mm*3660mm (20ft*12ft)	Front facade A:(L*H) 5900mm*2363mm	Left facade B:(W*H) 3460mm*2363mm	Right facade C:(W*H) 3460mm*2363mm	Rear facade D:(L*H) 5900mm*2363mm
	P9	P10	P11	P12
				

STANDARD PAINTING

T603
dark grey

T604
brown

T607
white

T615
black

Note: If you need other colors painting, please contact customer service.