

Panorama



HOPO[®] SOLUTIONS

hopousa.com





HOPPO[®]

OUR TECHNOLOGY IS WHAT YOU CAN USE
TO FABRICATE YOUR WINDOWS AND
DOORS OF THE **FUTURE.**

**NO SYSTEM WINDOWS AND DOORS WILL BE
DIFFICULT** TO BE FABRICATED ANY MORE.



The HOPO logo is displayed in a bold, red, sans-serif font. A registered trademark symbol (®) is located at the top right of the letter 'O'. The logo is centered within a white rectangular box that serves as a background for the text.

HOPO[®]

ABOUT US

HOPO is a global supplier of system solutions for aluminium windows and doors. Our wide product range covers demands of both residential and commercial buildings in various climate environments.

For residential buildings, our security locking systems can be installed on all kinds of windows. For commercial building windows, we have open limit stay or lockable handles to prevent accidental falling from unauthorized opening. In emergency, some special solutions allow administrators to open the window completely.

Products design makes our company the leader in the industry of aluminium windows and doors. Our patented out-swing and awning window firstly appeared in the world (2016) that changed the traditional way of opening. Handles with chip [iHandle] use the most advanced NFC (Near Field Communication) technology. The patents of HOPO has already reached 143 items till the end of 2018.

Energy saving systems with high U-factor values is suitable for areas with high thermal break requirements. Panorama narrow frame system provides end users with a better scenery.

HOPO systems has past many tests, such as AAMA test for America market. Other tests can be arranged according to local requirements of different markets.



Intertek
Test Report

Issue Date:
2019/5/24

Applicant Address:
HONG (HONGKONG) WINDOW AND DOOR INTELLIGENT CONTROL CO., LTD.
NEW DISTRICT, SHENZHEN CITY, GUANGDONG PROVINCE, CHINA

Attn:
Primary product
designator:
Optional secondary
designator:

Subject:
Positive Design Pressure ~1440 Pa (30.08 psi)
Negative Design Pressure ~-1440 Pa (30.08 psi)
Water penetration resistance test pressure ~580 Pa (12.11 psi)
Performance testing
~Sliding door

TEST METHODS AND STANDARDS
Clause 9.3.2, Clause 9.3.3, Clause 9.3.4.2 and Clause 9.3.4.3 of AAMA/WDMA/CSA 101/LS2/A440-11 (NAFAS 2011 - North American Fenestration Standard / Specification for Windows, Doors and Skylights)

MODEL
148

2400 mm (Width) x 2100 mm (Height) x 148 mm (Thickness)

TO
2019/5/9

Room 4105 & 4203, No. 63, Punan Road, Huangpu District, Guangzhou, Guangdong Province, China

2019/3/20

2019/5/6

Room 4105 & 4203, No. 63, Punan Road, Huangpu District, Guangzhou, Guangdong Province, China

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2019/5/6

Intertek
Total Quality Assured.

HOPO INC. TEST REPORT

SCOPE OF WORK
AAMA/WDMA/CSA 101/LS2/A440 TESTING ON PANORAMA, OUT-SWING CASEMENT WINDOW

REPORT NUMBER
11610.02-525-44

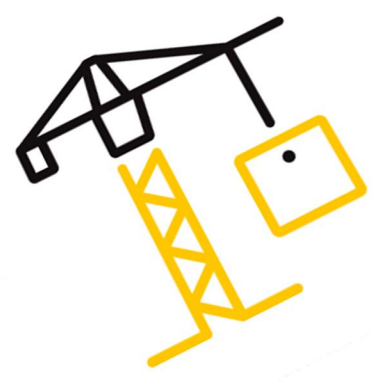
TEST DATE(S)
07/12/18 - 07/30/18

ISSUE DATE
09/19/18

RECORD RETENTION END DATE
09/04/23

PAGES
40

DOCUMENT CONTROL NUMBER
RT-R-AMER-Test-2804 (04/17/18)
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Intertek
Test Report

Issue Date:
2019/5/24

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Room 4105 & 4203, No. 63, Punan Road, Huangpu District, Guangzhou, Guangdong Province, China

2019/5/6

Test Description	Requirements	Results	Pass/Fail
Uniform Load Distributed Test AAMA/WDMA/CSA 101/LS2/A440-11, Clause 9.3.4.3 ASTM E330/E330M-2002(2010)	Minimum Structural Pressure (STP)	2160 Pa (45.11 psi) After the test, the test specimen showed no visible or measurable deformation of any part of the window system that would cause the test specimen to be unserviceable. Maximum permanent deflection at handle Maximum permanent deflection at sill	0.5 mm 0.3 mm

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Test Report

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2019/5/6

Test Description	Requirements	Results	Pass/Fail
Installation	The sample ID number was 5101 in Appendix A, the test data was referenced in Appendix B	Model: G7035123/18 Material: EPDM Supplier: Hebei	Model: 1 Material: EPDM Supplier: Hebei



2017 CRYSTAL
ACHIEVEMENT
AWARDS

HOPO®

Window and Door Solutions

*Our dual operating window system
is perfect for any weather*

NOTABLE ENTRIES



Outswing and Awning Window by Hopo Inc.

The Hopo Outswing and Awning window system is a design that can operate as an outswing casement or project out as an awning/hopper window. The window open sash has a maximum opening distance of 13 centimeters in the awning position. Multiple locking points surround the entire sash, providing the window with sound insulation, an airtight seal and a waterproof sealing effect, the company reports. The supporting arm on the bottom is a stop and auto-return mechanism, which returns the window automatically after a light push on the bottom sash, preventing operation from outside.

516/773-2887 | hopo.us

Outswing and Awning window hardware

Airtight / Waterproof / Soundproof / Secure

A projecting window can be turned out to get better ventilation and scenery.



HOPO Inc.

1 Cuttermill Road. STE 4 Great Neck, NY 11021

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GlassBuild
AMERICA.
THE GLASS, WINDOW & DOOR EXPO

GlassBuild America 2017

September 12-14, 2017

Atlanta, Georgia

Booth 2819

◀ 03 / 04 ▶

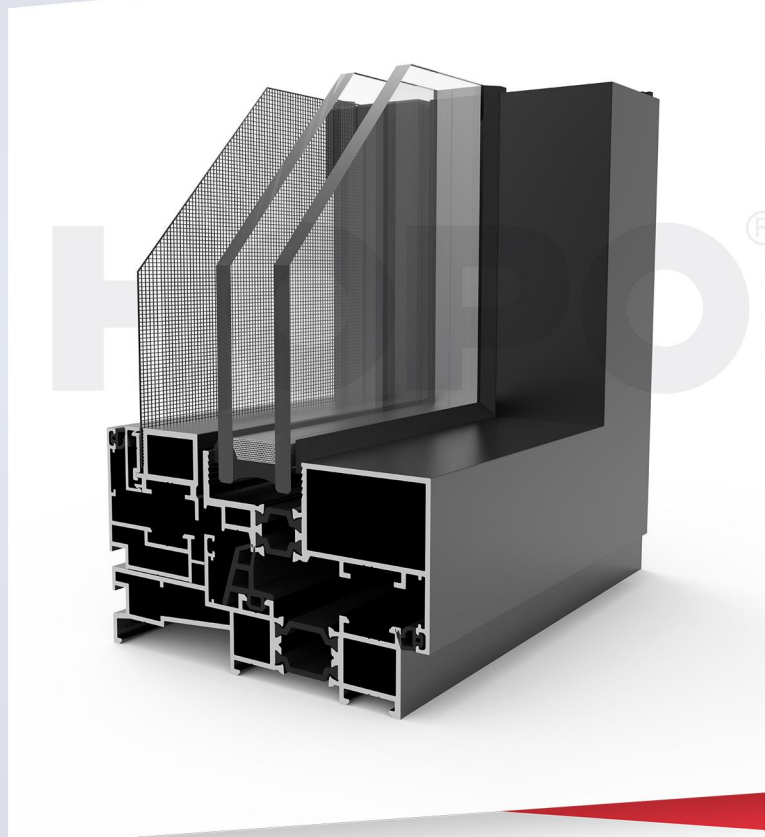


NARROW FRAME TILT-TURN WINDOW

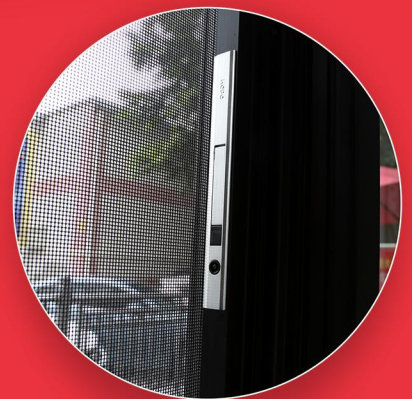
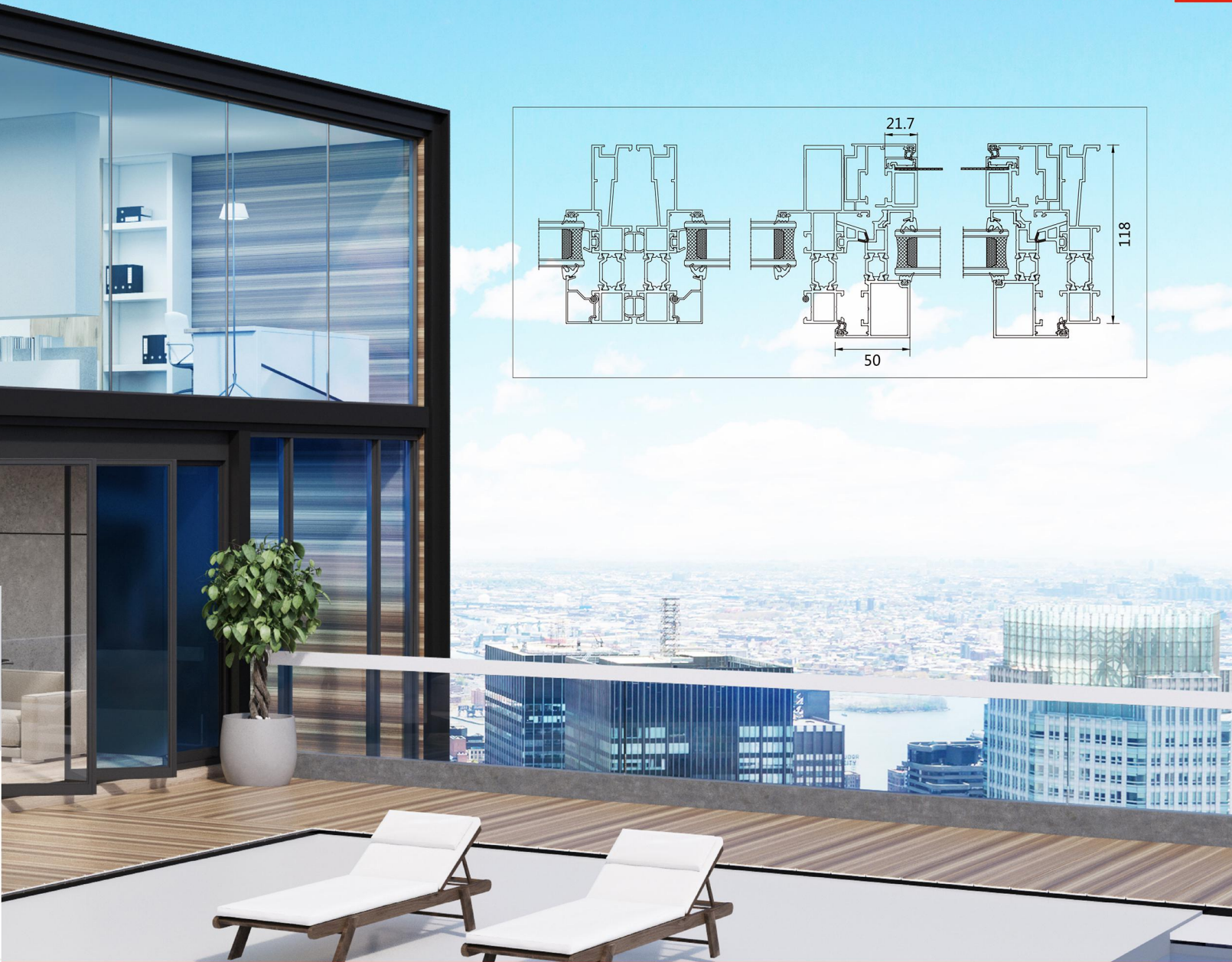
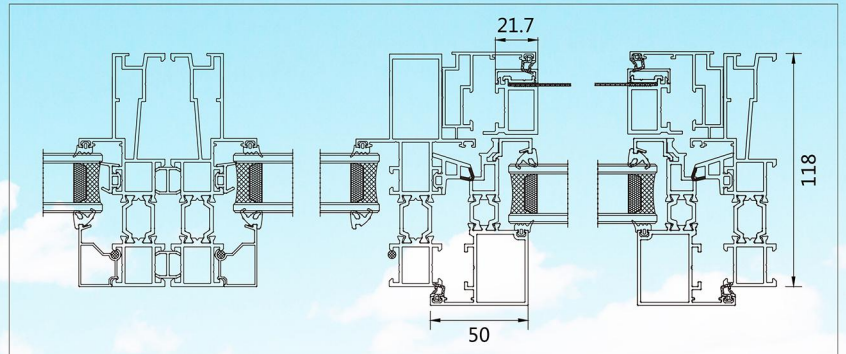
- Concealed mounting fittings can not be seen in front of window.
- Narrow profile design can reach 83% light transmittance, 10% higher than normal window systems.
- Aluminium profiles are of standard C groove.
- Concealed hinges will not make any visual interference to the window, improving sealing effect of the corners to enhance the integrity of the sealing system.
- Concealed handle improves the visual integrity of the window with easy operation.
- Connecting structures are sealed with structural glue, ensuring strength and safety.
- Sealing gasket is combined EPDM with foam to achieve better sealing effect.
- Specifications:
 - ⊙ Max.leaf width: 20" --39"
 - ⊙ Max.leaf height: 19" --79"
 - ⊙ Max.Leaf weight: 176.37lbs

SCREEN SASH INWARD OPENING

- Aluminium profiles are of standard C groove.
- Concealed hinges will not make any visual interference to the window.
- The screen sash can be not only anti-mosquito, but also be of effective security function.
- Double points locking system improves security level of the screen sash.
- The lockable concealed handle for the screen sash provides high security with easy operation.



NF 118 SERIES: TILT-TURN WINDOW WITH INWARD OPENING SCREEN SASH



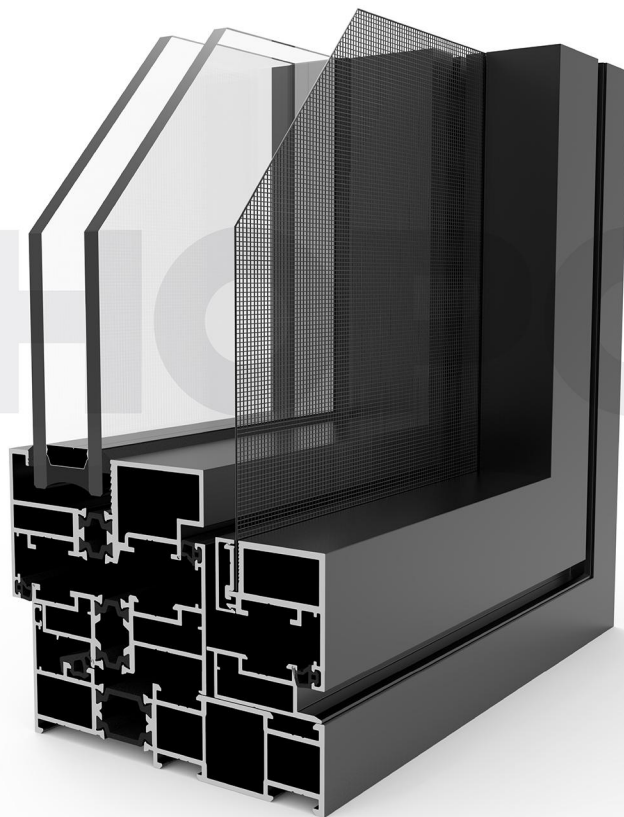
NF 118 SERIES: CASEMENT WINDOW WITH INWARD OPENING SCREEN SASH

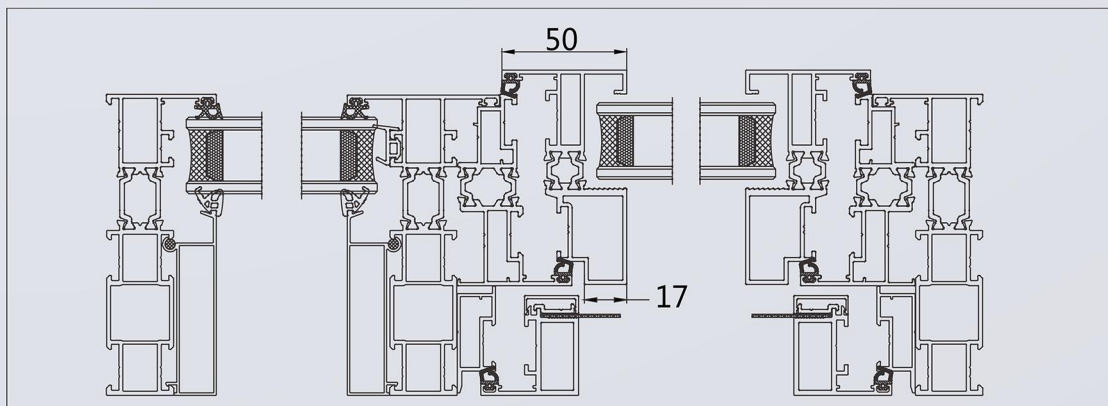
OUTSIDE CASEMENT WINDOW

- No fitting is visible from inside, achieving beauty of simplicity.
- Narrow profile design can reach 83% light transmittance, 10% higher than normal window systems.
- Concealed handle improves the visual integrity of the window with easy operation.
- Suitable for C groove profile. Double grooves profiles increase structure stability. New friction hinges are easy for installation.
- Its high load capacity increases level of safety for the whole structure.
- Connecting structures are sealed with structural glue, ensuring strength and safety.
- Sealing gasket is combined EPDM with foam to achieve better sealing effect.
- Specifications:
 - ⊙ Max.leaf width: 16" --37"
 - ⊙ Max.leaf height: 16" --75"
 - ⊙ Max. Leaf weight: 176.37 Ibs

INSIDE SCREEN SASH

- Integrated design for window and screen sash reaches narrow depth of frame only 4.65".
- Fittings are suitable for standard C groove. Flush surface design has achieved for screen sash.
- Concealed hinges will not make any visual interference to the window.
- The screen sash can be not only anti-mosquito, but also be of effective security function.
- The screen sash is inward opened.
- Double points locking system improves security level of the screen sash.
- The lockable concealed handle for the screen sash provides high security with easy operation.





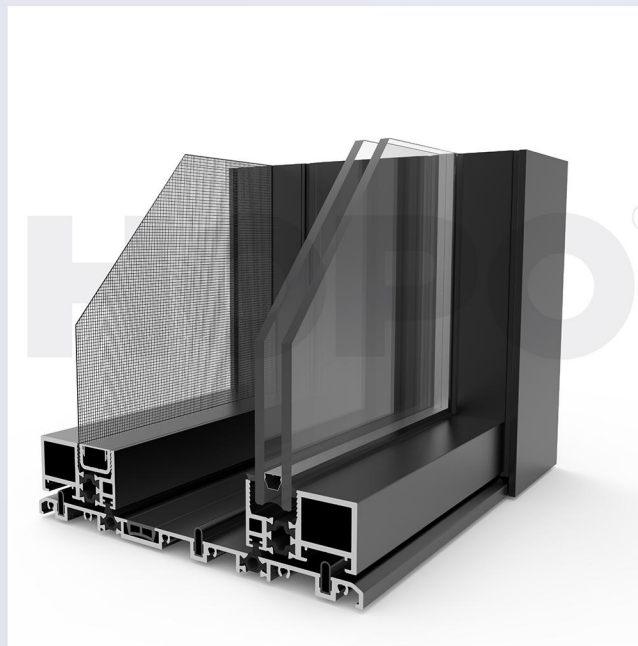
HOPPO



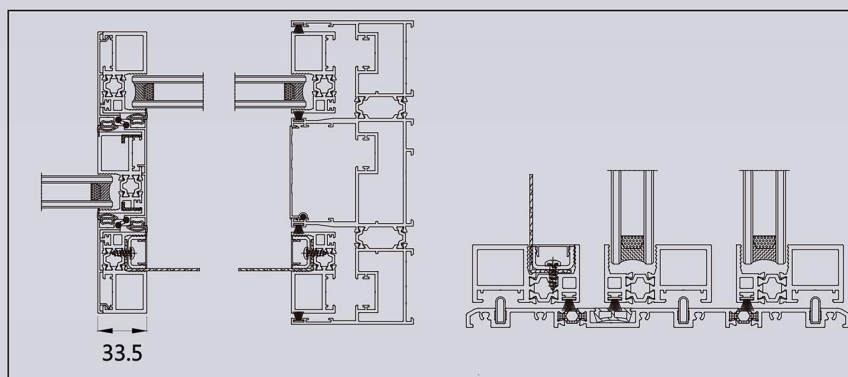
NARROW THERMAL BREAK FRAME SLIDING DOOR (3 TRACKS 3 SASHES)

- Special narrow designed profile provide you with wider views. Thermal break profile achieves high level of saving energy.
- Frame profile will cover sash profile completely in closed position, and makes outlook of the door concise and beauty.
- Sash profile width on all sides are extremely narrow.
- Sash frame corners are connected with corner cleat and enhanced with corner angle bonding adhesive, ensuring high structure strength.
- Bottom profile is of barrier-free design with bevel shape.
- The top bearing roller design achieves smooth sliding operation.
- Range of height adjustment of the guiding roller is 0.2" .
- Load capacity of the roller is 264.55 lbs with range of height adjustment in 0.14" , and lifespan over 100,000 times.
- Range of adjustment for the locking pin is -0.04~+0.12" .
- Many door schemes are available.
- Specifications:

- ◎ Max. Leaf weight: 264.55 lbs
- ◎ Max. leaf width: depends on maximum door weight
- ◎ Max. leaf height: 102"



NARROW THERMAL BREAK FRAME SLIDING DOOR (3 TRACKS 3 SASHES)



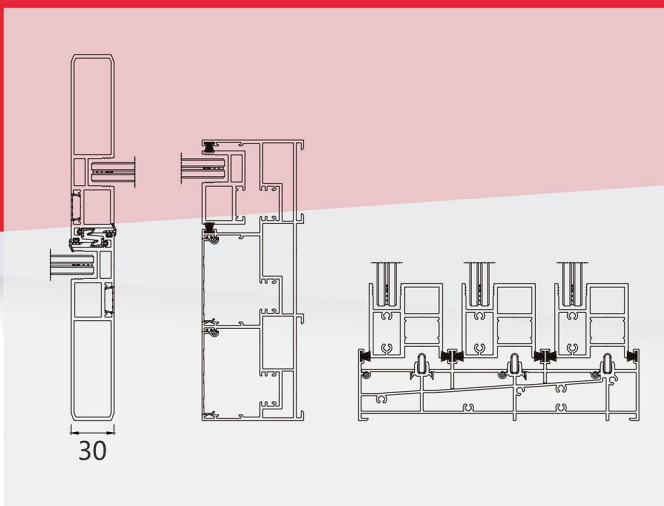
HOPO®



NARROW NON-THERMAL BREAK FRAME SLIDING DOOR (3 TRACKS 3 SASHES)

NARROW NON-THERMAL BREAK FRAME SLIDING DOOR (3 TRACKS 3 SASHES)

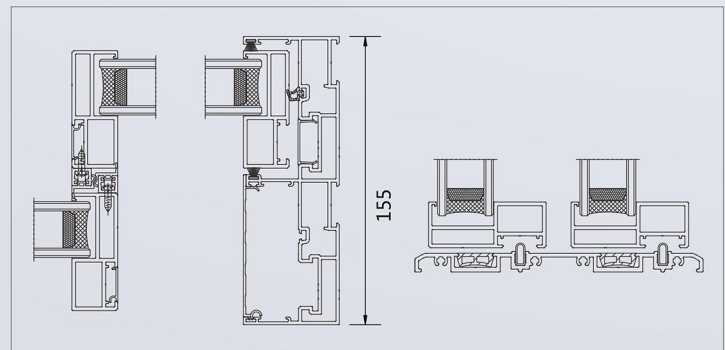
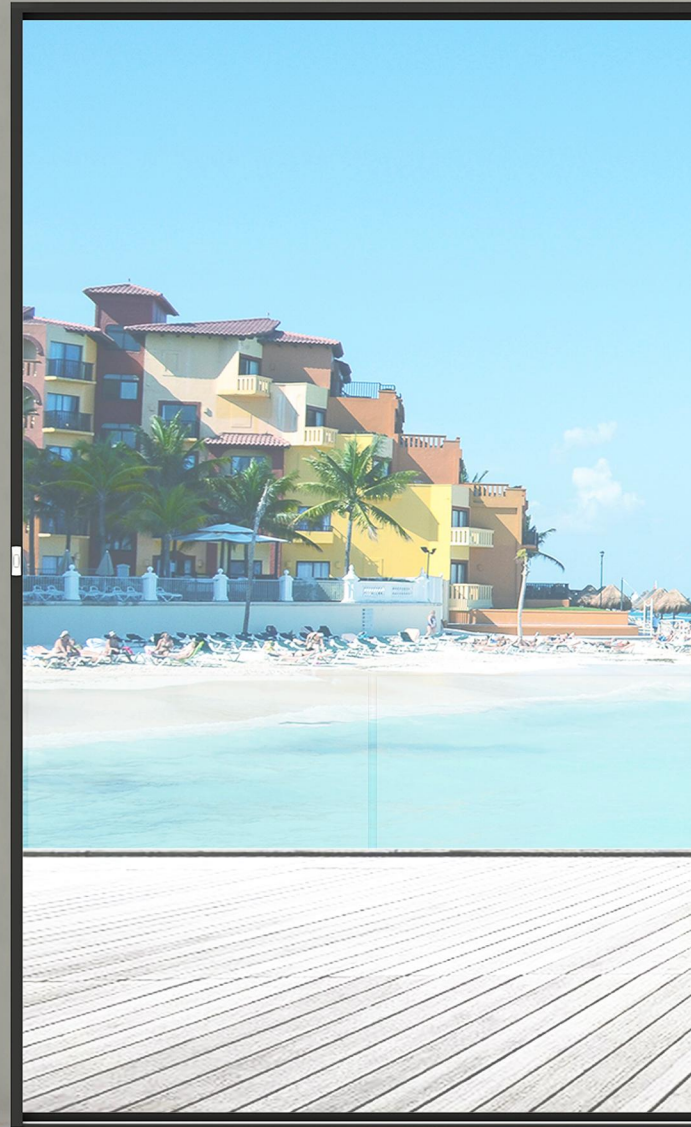
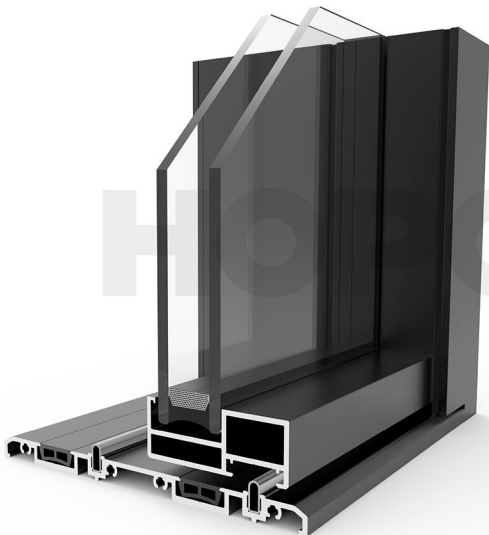
- Special narrow designed non-thermal break profile provide you with wider views.
 - Frame profile will cover sash profile completely in closed position, and makes outlook of the door concise and beauty.
 - Sash profile width on all sides are extremely narrow.
 - Sash frame corners are connected with corner cleat and enhanced with corner angle bonding adhesive, ensuring high structure strength.
 - Bottom profile is of barrier-free design with bevel shape with drainage system.
 - The top bearing guiding roller design achieves smooth sliding operation.
 - Range of height adjustment of the guiding roller is $+0.2''$.
 - Load capacity of the roller is 661.39 Ibs with range of height adjustment in $0.6''$, and lifespan over 100,000 times.
 - Range of adjustment for the locking pin is $-0.04 \sim +0.12''$.
 - Many door schemes are available.
 - Specifications:
- ⊙ Max. Leaf weight: 264.55/661.39 Ibs (depends on rollers specified.)
 - ⊙ Max. leaf width: depends on maximum door weight.
 - ⊙ Max. leaf height: 118"





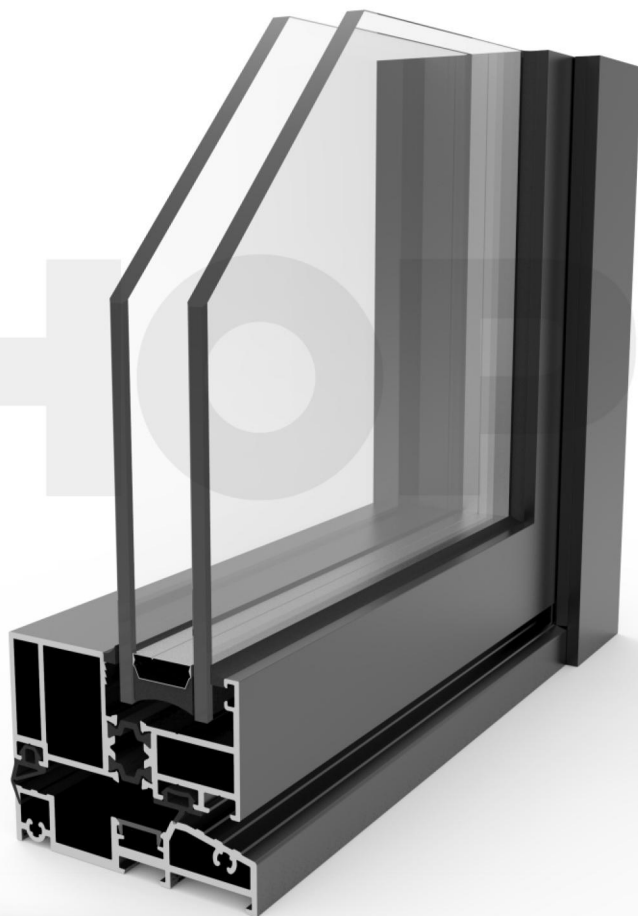
NARROW NON-THERMAL BREAK FRAME SLIDING DOOR (2 TRACKS 2 SASHES)

- Special narrow designed non-thermal break profile provide you with wider views.
 - Frame profile will cover sash profile completely in closed position, the front surface width is just 2" .
 - Sash profile width on all sides are extremely narrow, only 1" .
 - The corner cleat of sash and frame is universal, reducing stock items.
 - Sash frame corners are connected with corner cleat and enhanced with corner angle bonding adhesive, ensuring high structure strength.
 - Bottom profile is of bevel shape with concealed drainage system.
 - Optional high bottom and low bottom threshold solutions are available.
 - Light , heavy duty and lift sliding are available with the same profile system.
 - The locking rod is easy to install with adjustment range of - 0.08" ~ +0.4" .
 - The top bearing roller design achieves smooth sliding operation.
 - Light duty rollers are designed to be mounted on corner cleat that makes installation very easy.
 - Pull handle and sliding door lock are combined together.
 - Specifications:
- ⊙ Max. Leaf weight :Light duty: 264.55 Ibs/Heavy duty:661.39 Ibs
- ⊙ Max.leaf width: depends on maximum door weight.
- ⊙ Max.leaf height:102"



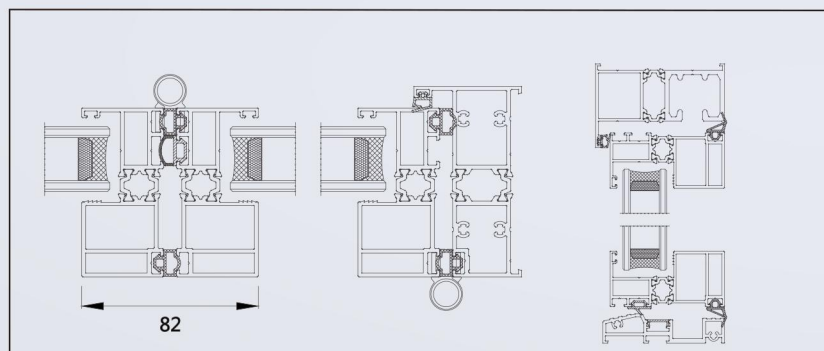
NARROW NON-THERMAL BREAK FRAME
SLIDING DOOR (2 TRACKS 2 SASHES)



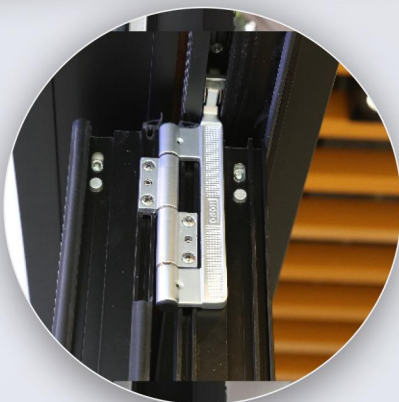


SF63 BI-FOLDING DOOR (SCHEME 633) WITH LOW BOTTOM RAIL WITH THERMAL BREAK PROFILES

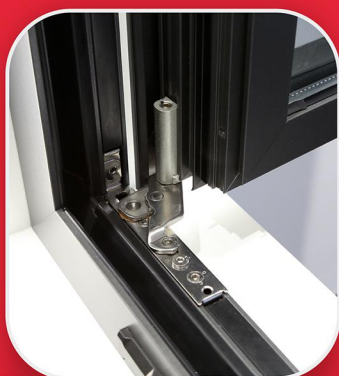
- Special narrow profile design ensures wider view.
- Top bearing roller design ensures high level of safety.
- Shoot bolts on top and bottom makes leafs locked tightly.
- The design of sealing structure achieves high performance of water resistance.
- Integrated handle for operating folding leaf improves visual appearance of the window.
- Convenient operation.
- Insect screen is available.
- Double sides handle with cylinder are available for door solution.
- Insulating glass with integrated louver are available.
- Many schemes are available (330, 431, 633).
- Bottom fixed panel are available.
- Specifications:
 - ⊙ Max. Leaf weight: 110.23 lbs
 - ⊙ Range of Leaf width: 18" -31"
 - ⊙ Max. Leaf height: 102"
 - ⊙ Max aspect ratio: 1:2.5



SF63 BI-FOLDING DOOR (SCHEME 633)
WITH LOW BOTTOM RAIL WITH THERMAL
BREAK PROFILES



HOPO®





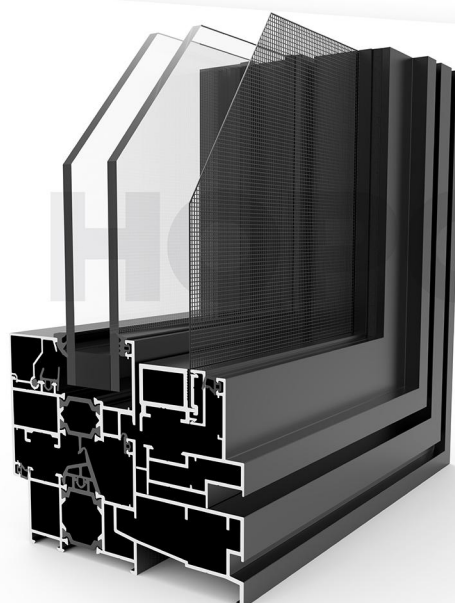
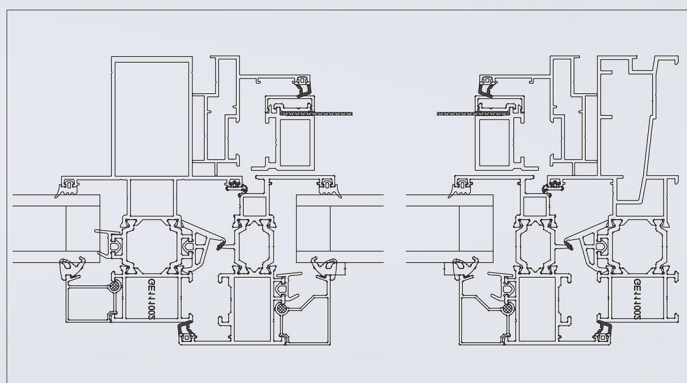
EU 118 SERIES: TILT-TURN WINDOW WITH SCREEN SASH

INSIDE TILT-TURN WINDOW

- The window profiles are EU 118 series with standard C groove.
- Profile depth can be 50-75 with different thermal break bars.
- Profile system are of universal characters with enough additional accessories.
- Connecting structures are sealed with structural glue, ensuring strength and safety.
- Die casting aluminium corner cleats are used with well-designed glue guiding channels. Both nails connection and corner cramping machines are applicable for the corner cleat.
- Can be tilt and inward turned as well.
- Cleaning window in inward opening state, ventilating in tilt position.
- Concealed hinges improves visual appearance of the window.
- Concealed hinges improve sealing effect at hinges corners, achieving better sealing effect for the overall sealing system.
- Low noise locking system can be smoothly operated.
- Easy installation and maintenance.
- Specifications
 - ⊙ Leaf width: 20" --39"
 - ⊙ Leaf height: 19" --79"
 - ⊙ Max. leaf weight: 176.37 Ibs

SCREEN SASH INWARD OPENING

- Aluminium profiles are of standard C groove.
- Concealed hinges will not make any visual interference to the window.
- The screen sash can be not only anti-mosquito, but also be of effective security function.
- Double points locking system improves security level of the screen sash.
- The lockable concealed handle for the screen sash provides high security with easy operation.

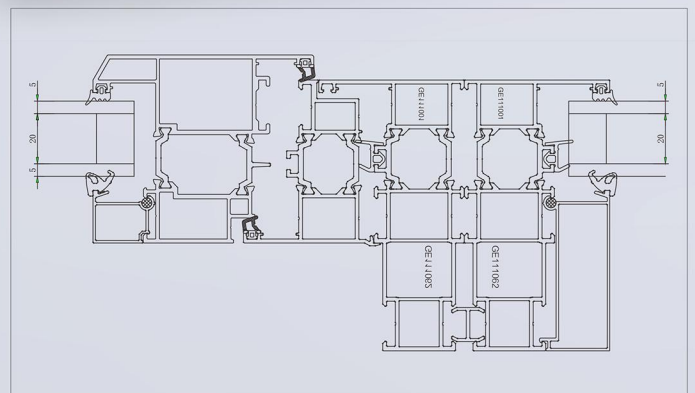
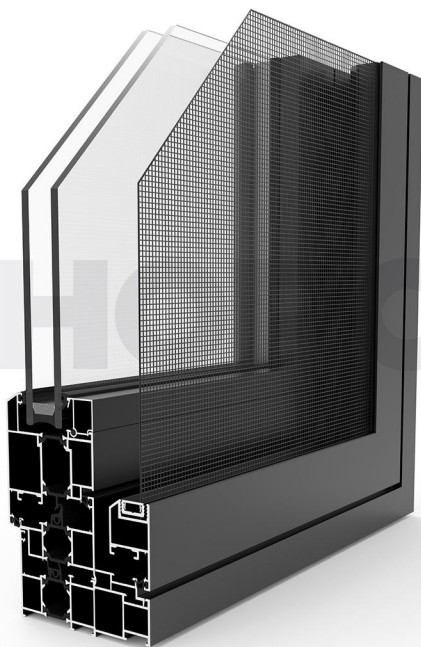


EU 108 SERIES: TURN-OUT AND AWNING WINDOW WITH SCREEN SASH

- Aluminium profiles are of standard C groove.
- The leaf can be turned outward and be projected as well.
- Locking pin with security design. Low noise, easy to operation.
- The unique clamping structure make the window not easy to be closed by wind in awning position, but convenient to be closed by merely push the sash a little bit outward.
- Special design of supporting structure is of anti-dropping function.
- Specifications:
 - ◎ Leaf width: 20"-35"
 - ◎ Leaf height: 24"-79"
 - ◎ Max. leaf weight: 176.37 lbs

INWARD OPENING SCREEN SASH

- Concealed hinge improved visual appearance of the window.
- The screen window keep ventilating and anti-mosquito and offer effective security at the same time.
- Muti-point locking pin improve screen security.
- Convenient handle operation.

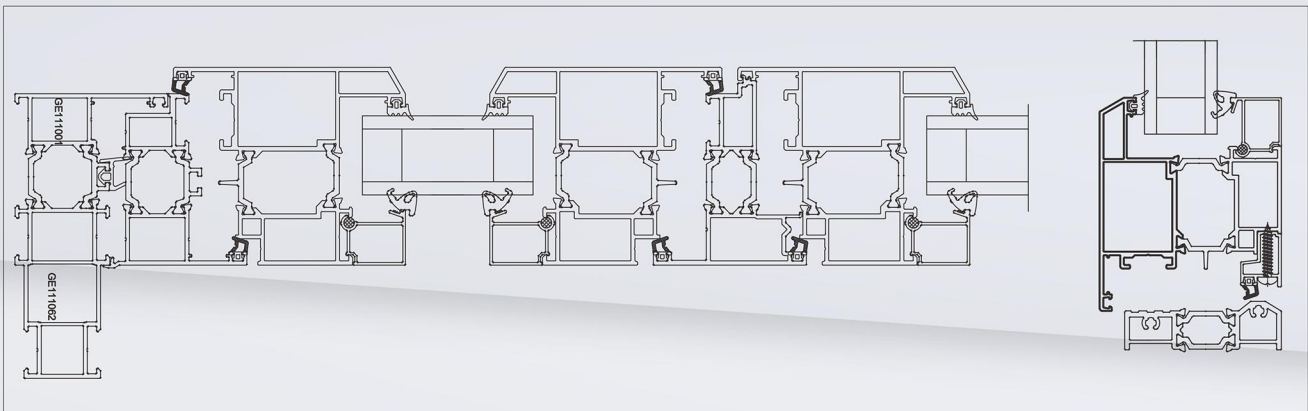


EU 108 SERIES: TURN-OUT AND AWNING WINDOW WITH SCREEN SASH



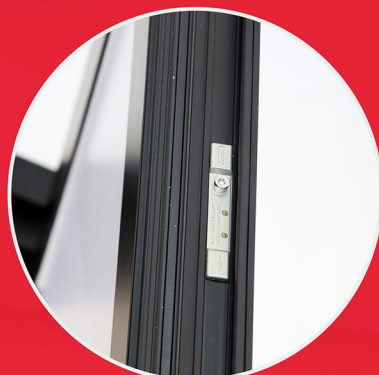
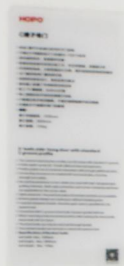
EU 108 SERIES: 2-LEAFS SIDE-HUNG DOOR

- The outward opening door profiles are 65 series with standard C groove.
- Profile depth can be 50-75 with different thermal break bars.
- Profile system are of universal characters with enough additional accessories.
- Connecting structures are sealed with structural glue, ensuring strength and safety.
- Die casting aluminium corner cleats are used with well-designed glue guiding channels. Both nails connection and corner cramping machines are applicable for the corner cleat.
- Optional barrier-free and low bottom threshold solutions are available.
- Bottom gasket design are continuous without breaking point.
- A special designed double-direction gear case is specified for the passive leaf.
- Connected with C groove shoot bolts.
- Square spindle (0.3" x0.3") .
- When returning to the horizontal position after locking the shoot bolts shoot bolts will not return.
- The shoot bolts can only be returned through handle.
- The outside handle can not lock or unlock the passive leaf.
- Specification of the door leaves:
 - ⊙ leaf width: Max. 39"
 - ⊙ leaf height : Max. 110"
 - ⊙ leaf weight : Max. 330.69 Ibs (3 hinges)



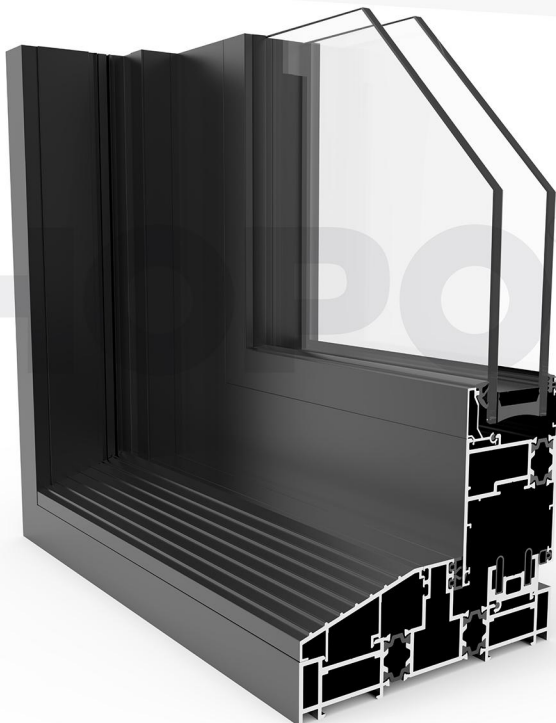
EU 108 SERIES:
2-LEAFS SIDE-HUNG DOOR

2-LEAFS SIDE-HUNG DOOR WITH STANDARD
C GROOVE PROFILE

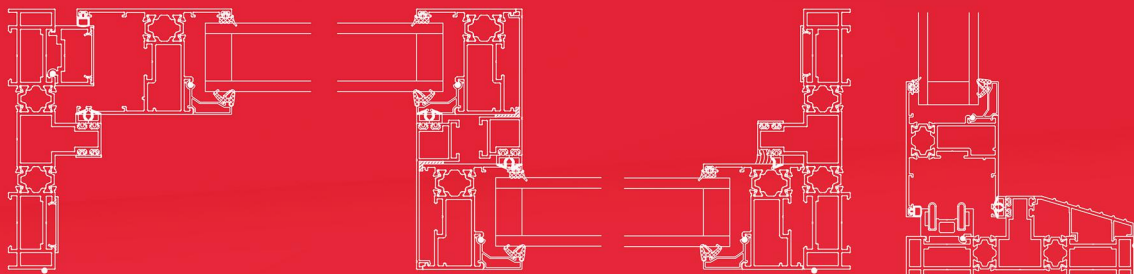


SLIDING SEALING DOOR - DOUBLE LEAFS

- Bottom double guide rail structure ensures high safety and stability.
- Combined EPDM and foam gaskets form a double sealing system, ensuring high sealing effect.
- Special movement path of sliding-shifting-sliding-locking of the sash through operation of the handle, can press the sash to the frame firmly, ensuring perfect sealing effect.
- The operation of the square spindle handle, within 180 degree, can stop the sash at any position with ease.
- New designed double bearing rollers have sound load capacity with easy installation, increase system safety of the door.
- Top guiding roller with bearing reduces friction force and achieves fluent movement with no noise.
- The circumferential locking points along the moving sash frame ensure high level of water-penetration, air-tightness and sound isolation, achieving sound sealing effect and high anti wind load capacity.
- The screen window keep ventilating and anti-mosquito and offer effective security at the same time.
- Specifications:
 - © Max. Height: 118"
 - © Max. Width of Moving leaves: depends on weight calculation
 - © Max. Weight: 617.29 lbs



SLIDING SEALING DOOR - DOUBLE LEAFS





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