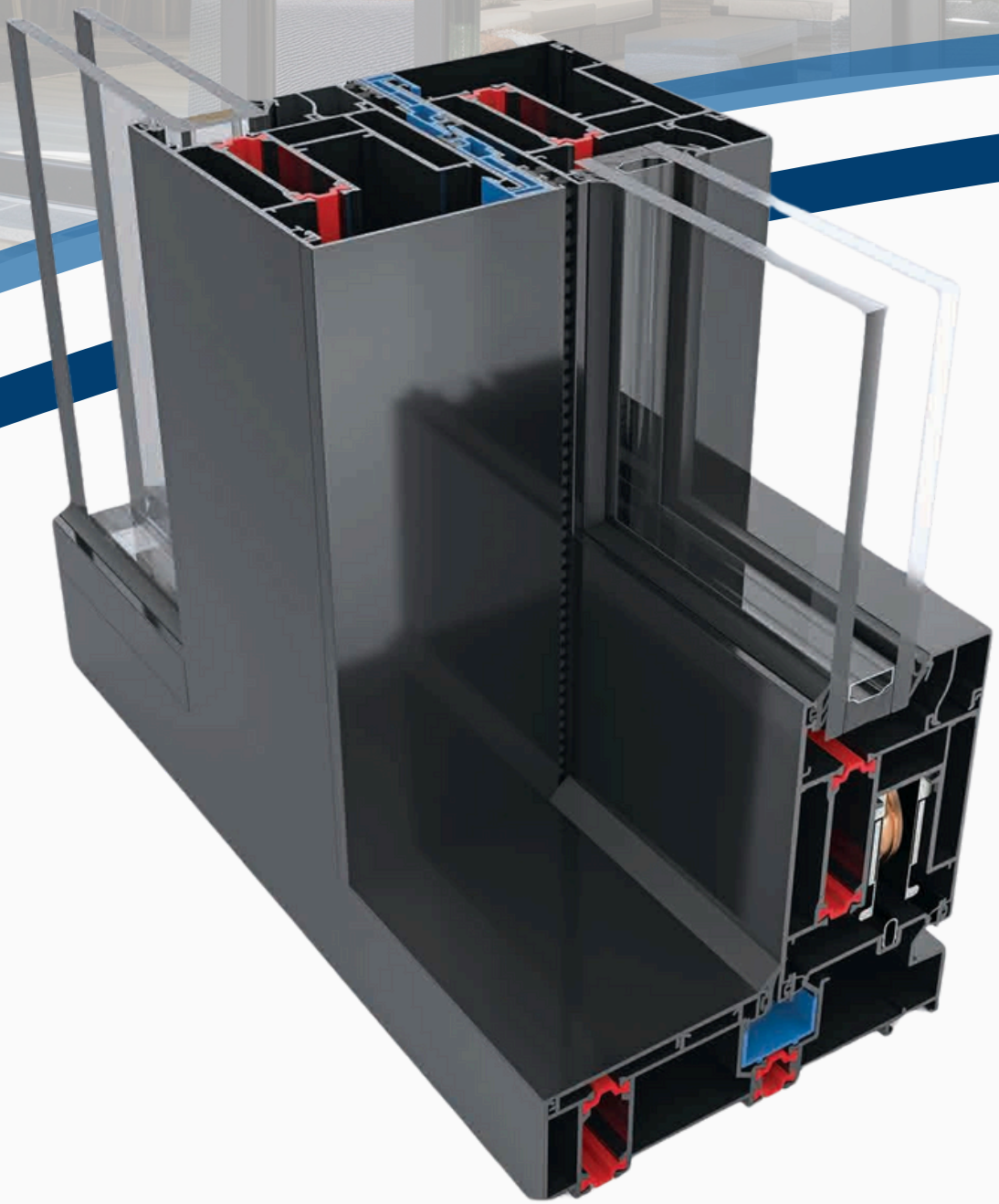
SKY
BUILDING MATERIALS

(2025)
PRODUCT
SPECIFICATIONS
SKY BUILDING
MATERIALS
SLIDING DOOR SYSTEM

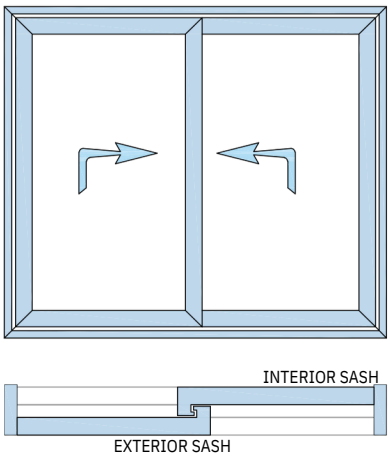
SLIDING DOOR SYSTEM(2025)

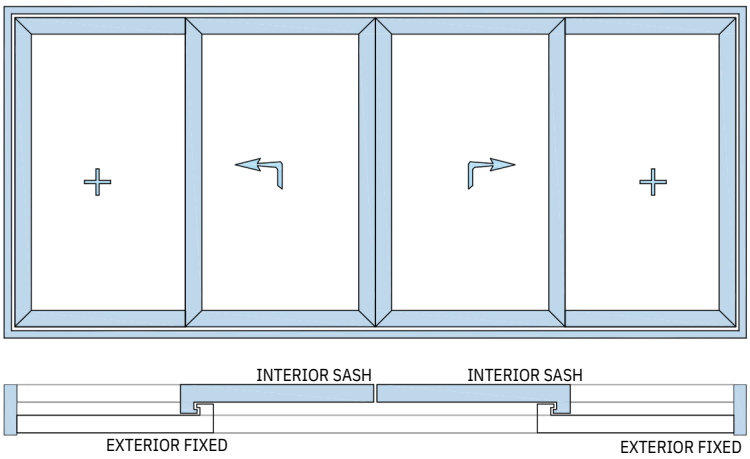


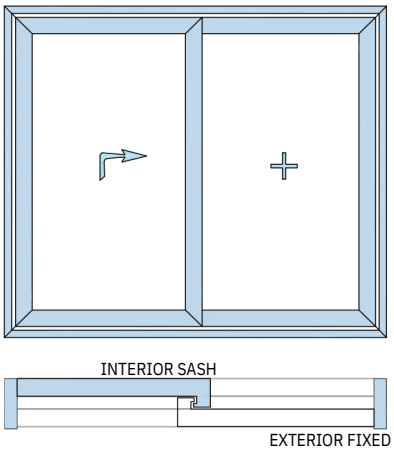
GREAT QUALITY | QUICK TIMING | EVEN BETTER SERVICE

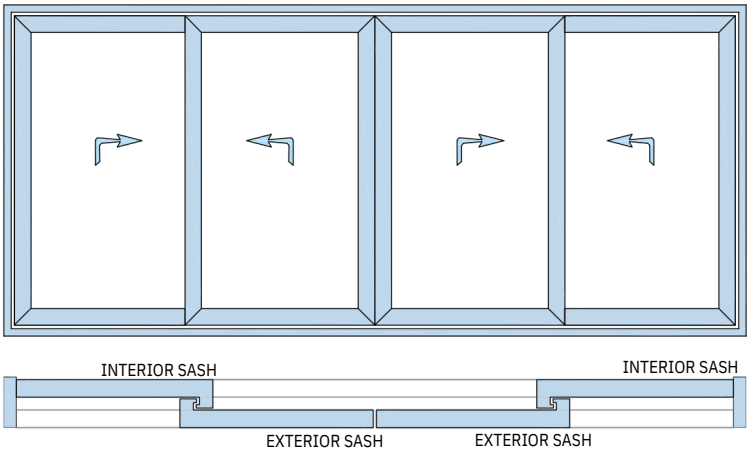
LIFT & SLIDE

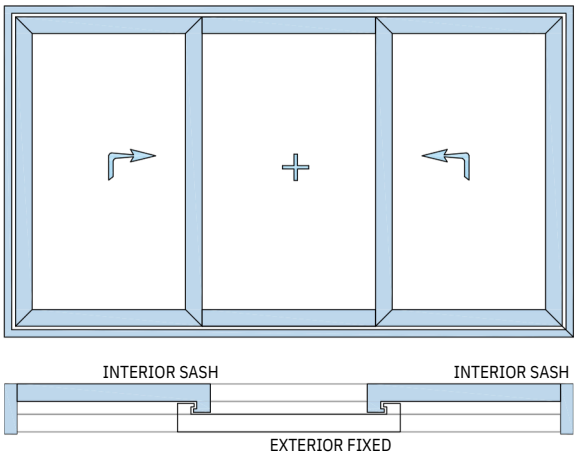
HIGH PERFORMANCE SLIDING SYSTEM

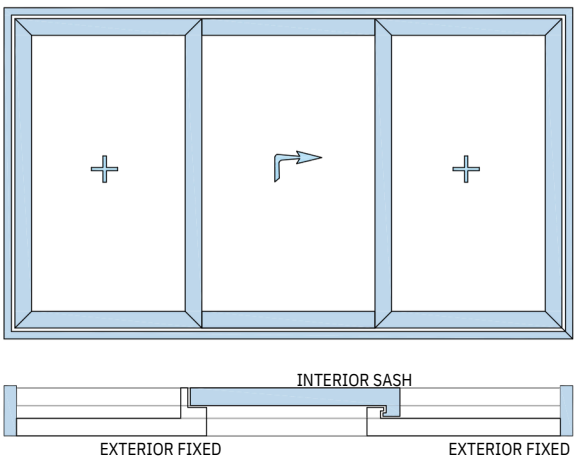












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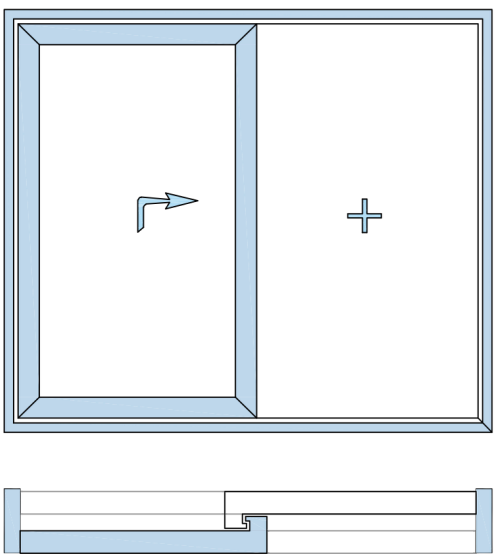
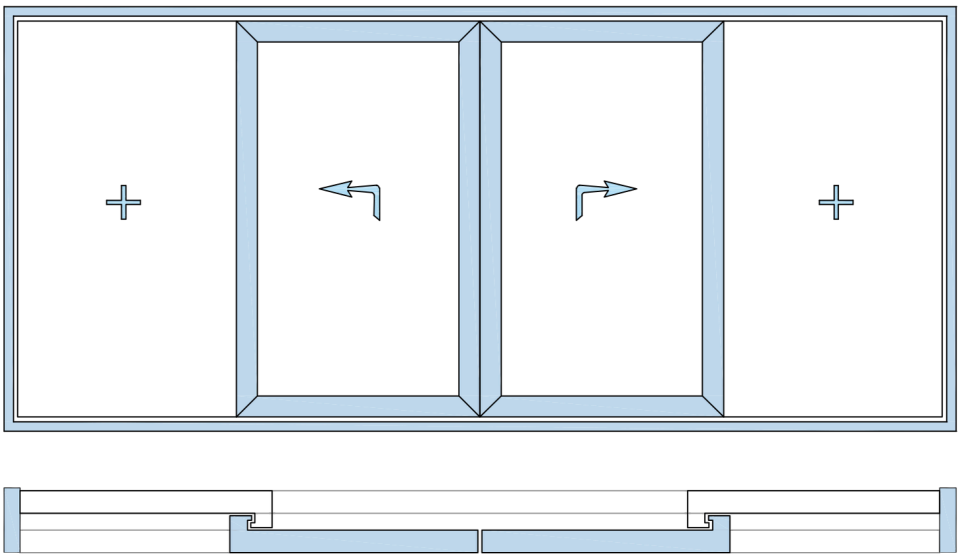
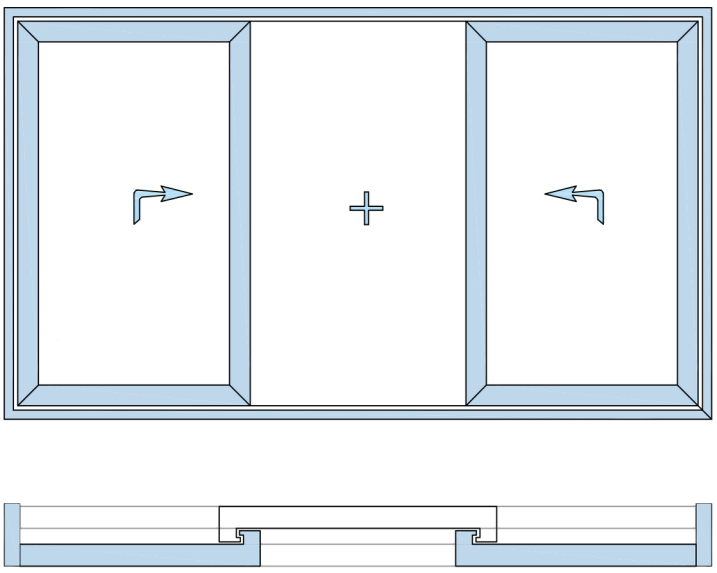
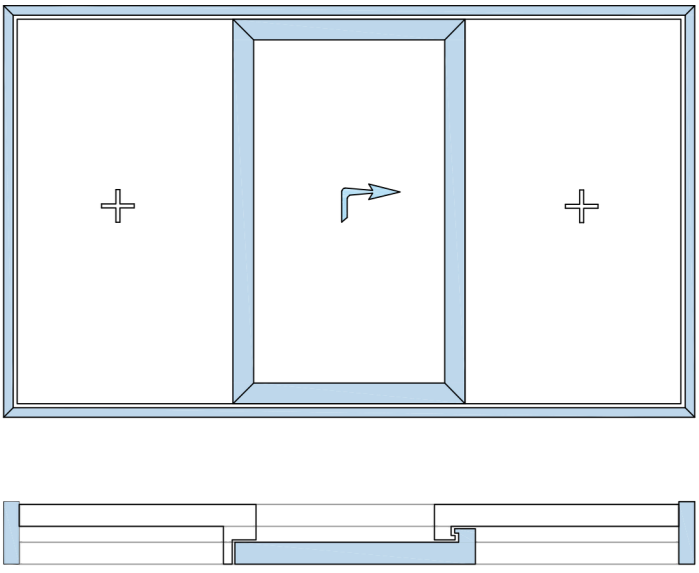
HIGH PERFORMANCE SLIDING SYSTEM









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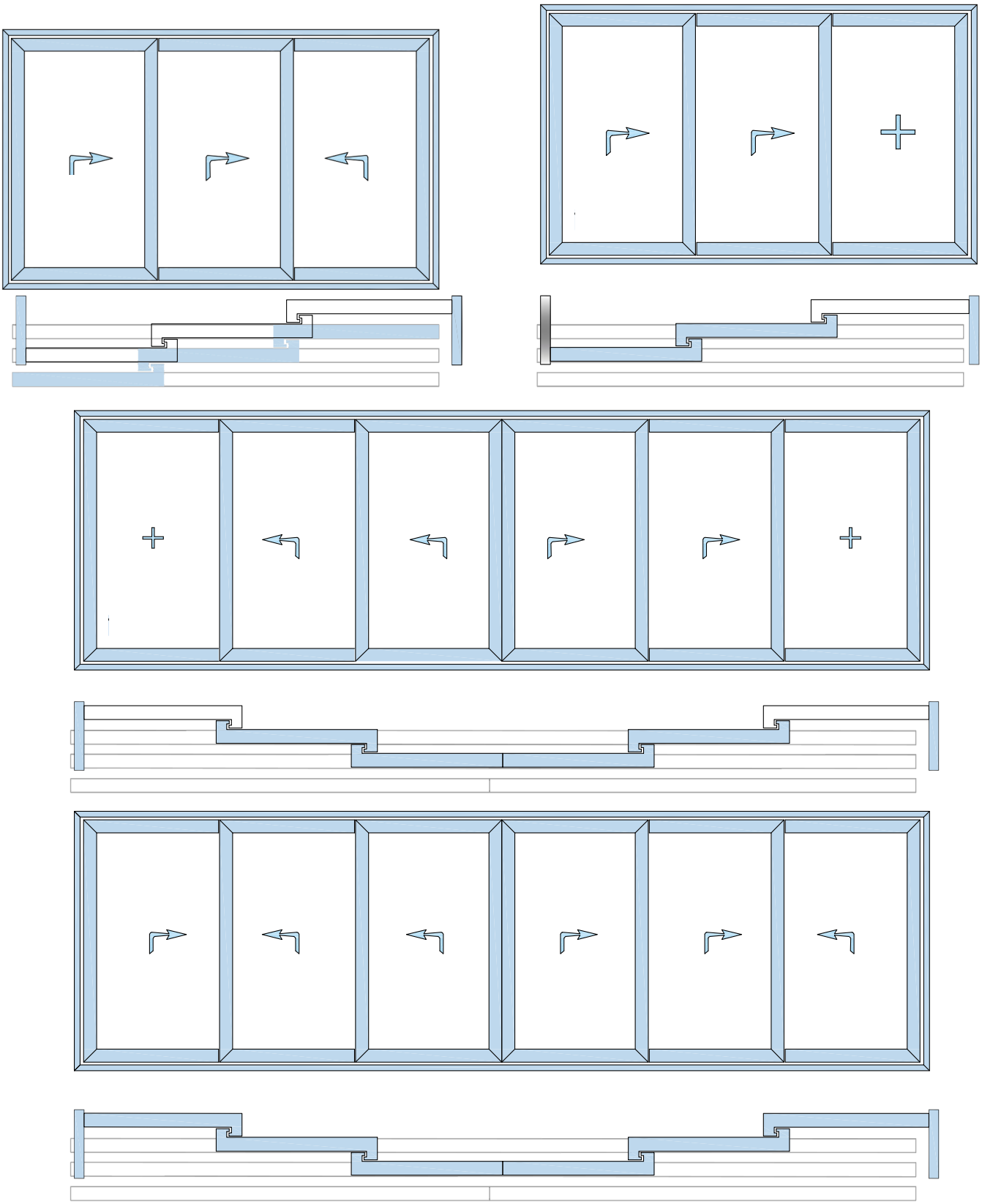

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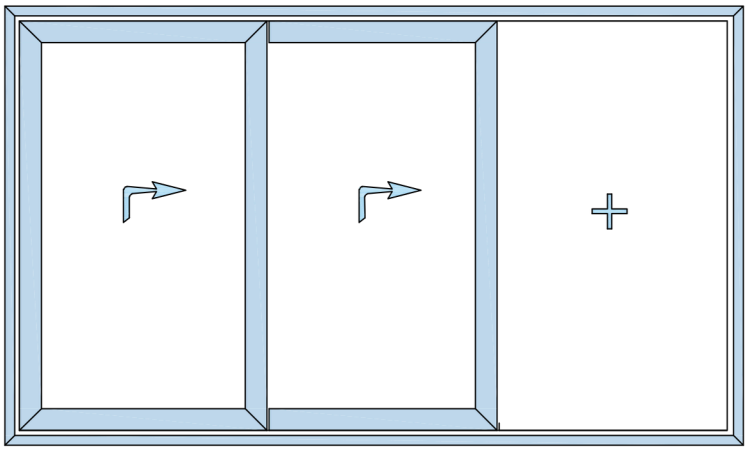

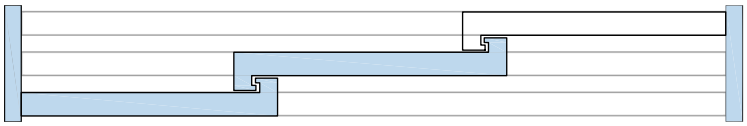

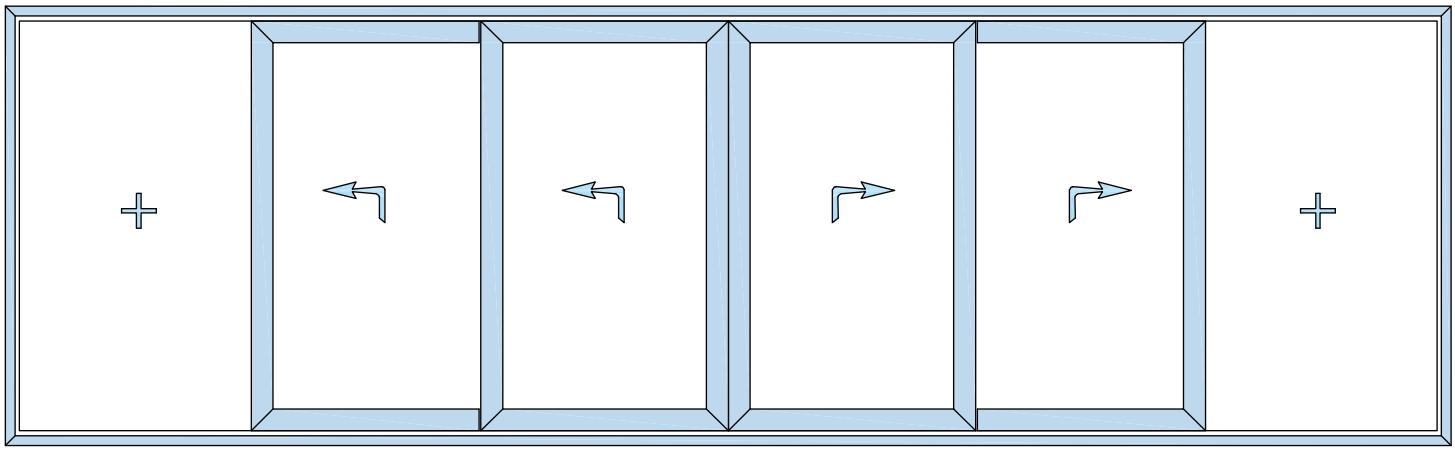

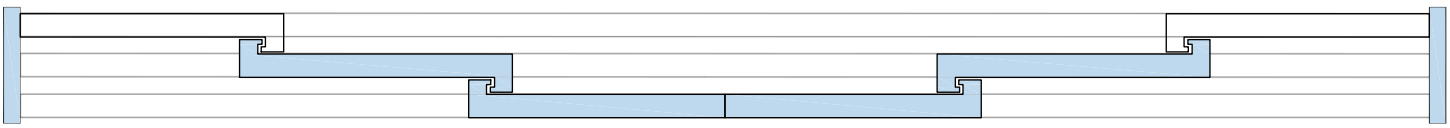

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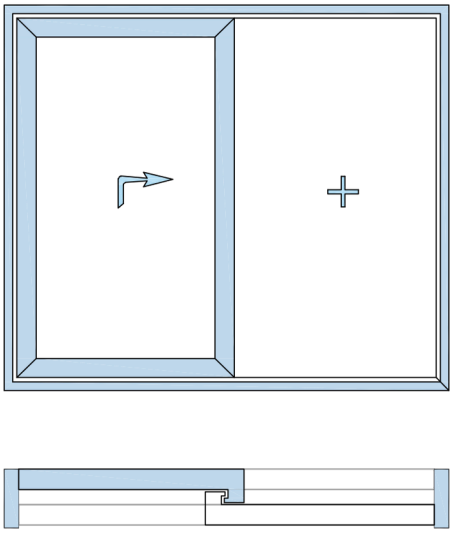

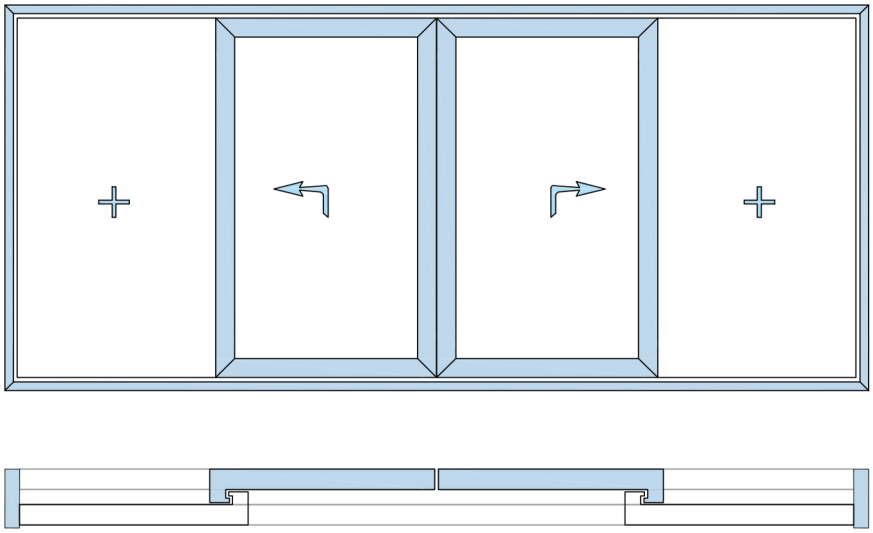

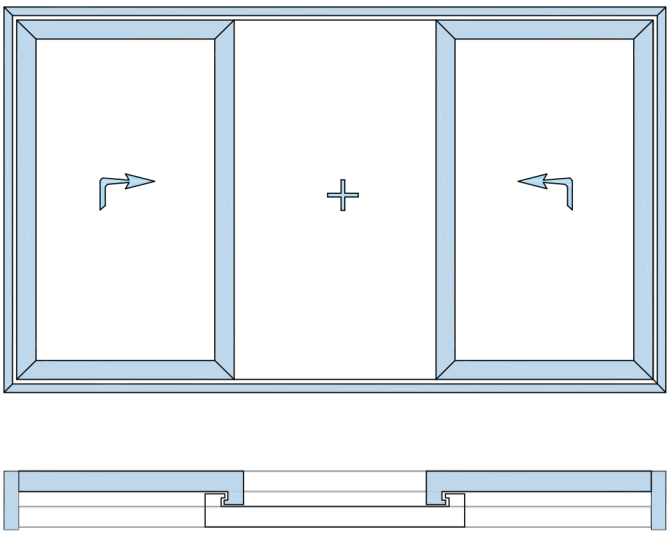

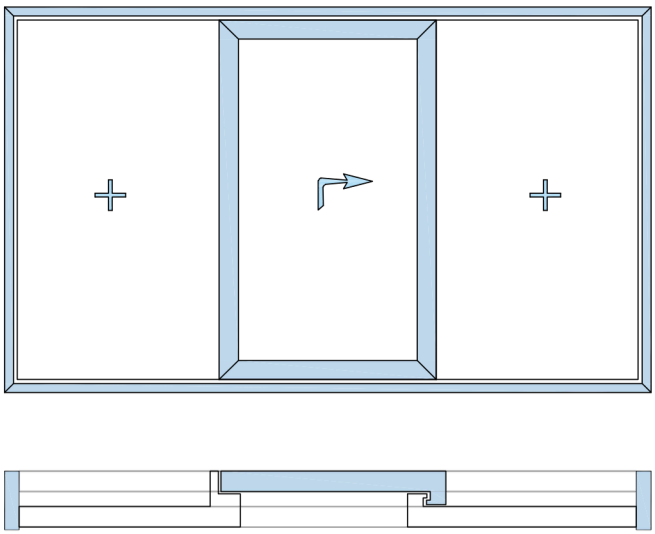

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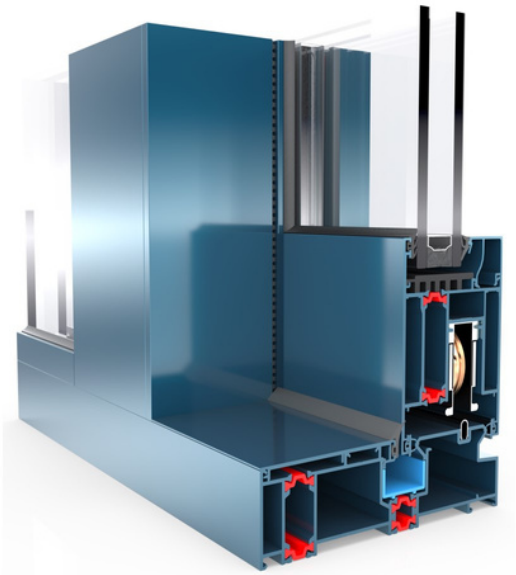


Double insulated glass, 3 options:

- 1" overall 366 over clear tempered
- 1" overall 360 over clear tempered
- 1" overall 452 over clear tempered

All options include:
Dual seal & stainless steel spacer
Filled with argon gas
20 years manufacturing guaranty.

TECHNICAL PROPERTIES

FRAME DEPTH :	5.528 inch | 140.4 mm
SASH DEPTH :	2.528 inch | 64.2 mm
PROFILE WALL THICKNESS :	0.079 inch | 2 mm
MAXIMUM GLASS THICKNESS :	1.89 inch | 48 mm
INSULATION BARRIERS :	0.583 - 0.945 inch | 14,8 - 24 mm
THERMAL INSULATION VALUE (Uf) :	0.7207 - 0.9269 Btu | 4,09 - 5,26 W/m²K

APPLICATION ALTERNATIVES

	WINDOW	DOOR
SINGLE SASH SLIDING :	●	●
TOP FIXED SLIDING :	●	●
SELF JAMBED SLIDING :	●	●
MIDDLE MOVABLE SLIDING :	●	●
REINFORCED TRANSOM :	●	●
INSECT SCREEN SLIDING :	●	●

TECHNICAL PROPERTIES OF MATERIALS

Aluminum extrusion profiles are produced according to ISO 9001 , ISO 14001 , OHSAS 18001 and ISO/IEC 27001 quality assurance.

1-Profile Raw Material

AA 6063 (AlMgSi 0.5 F22), EN 573-3

2-Mechanical Properties: EN 755-2

Density: 169.2 lb/ft² | 2.71 g/cm³
Elasticity Modulus: 10.2 million PSI | 7000 kN/cm²
Yield Strength: 31183 PSI | 215 N/mm²
Flow Strength: 23206 PSI | 160 N/mm²
Elongation: Minimum 6%
Hardness: 75 HB | 70 HRB

3- Thermal Barrier Raw Material

PA 66 GF 25; 25% glass fiber-reinforced polyamide (Inserted before anodization or powder coating)

4-Anodization

Technical standards regarding anodized products: DIN 17661, EN 12371-1 (QUALANOD)
Anodizing coat thickness: 0.3937 - 0.5906 mil | 10 - 15 microns, EN ISO 2360
Standards of Immersion Coloring: DIN 50018
Sealing Standard: EN 12373-5, ISO 3210

5-Powder Coating Standards

Thickness: Minimum 2.3622 mil | 60 microns
Adhesion: EN ISO 2409
Elasticity: EN ISO 1519
Deformation: EN ISO 6272-1
Hardness: EN ISO 2815

6-Surface Appearance

By visual inspection, no visible defects such as swelling, stains etc. should be on the surfaces.

7-All gaskets

Raw Material: EPDM
Raw Material of gaskets for suture: Silicone
Measurement Tolerances Standards: DIN ISO 3302-1/E2
Quality Control Standard: RAL-GZ 716

8-Measurement Tolerances Standards

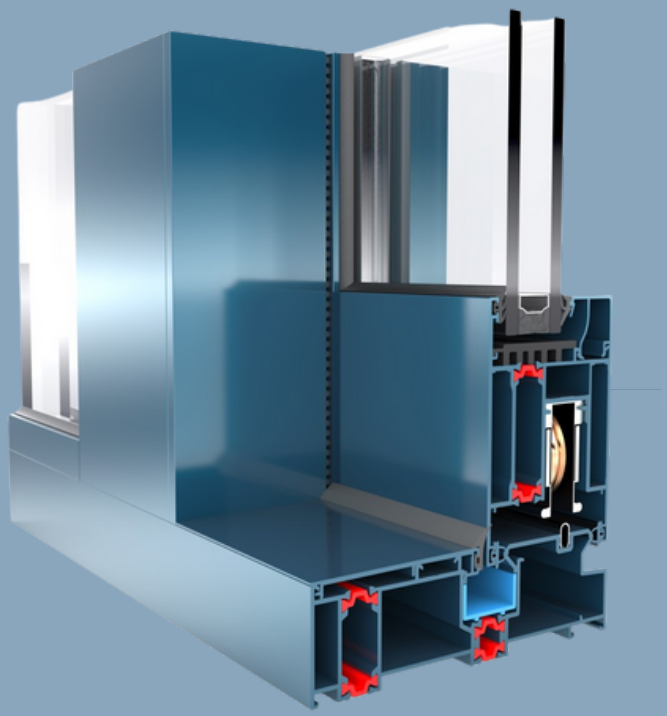
Standards for Profile Design and Manufacturing: EN 12020-2

LIFT & SLIDE

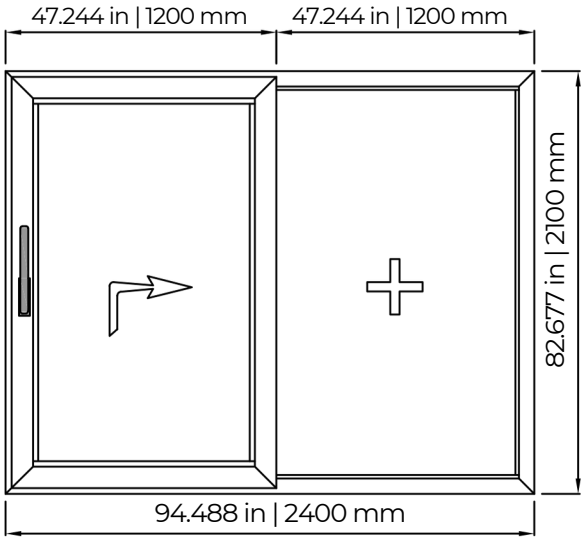
AIR-WATER-WIND TEST RESULTS

These are the performance test results performed in the accredited test laboratory for the Lift & Slide system.

FLOOD-PROOF & HIGHLY RESISTANT TO WINDS



TEST SAMPLE'S DIMENSIONS



Frame
Width: 94.488 in | 2400 mm
Height: 82.677 in | 2100 mm

Opening Sash
Width: 47.638 in | 1210 mm
Height: 79.843 in | 2028 mm

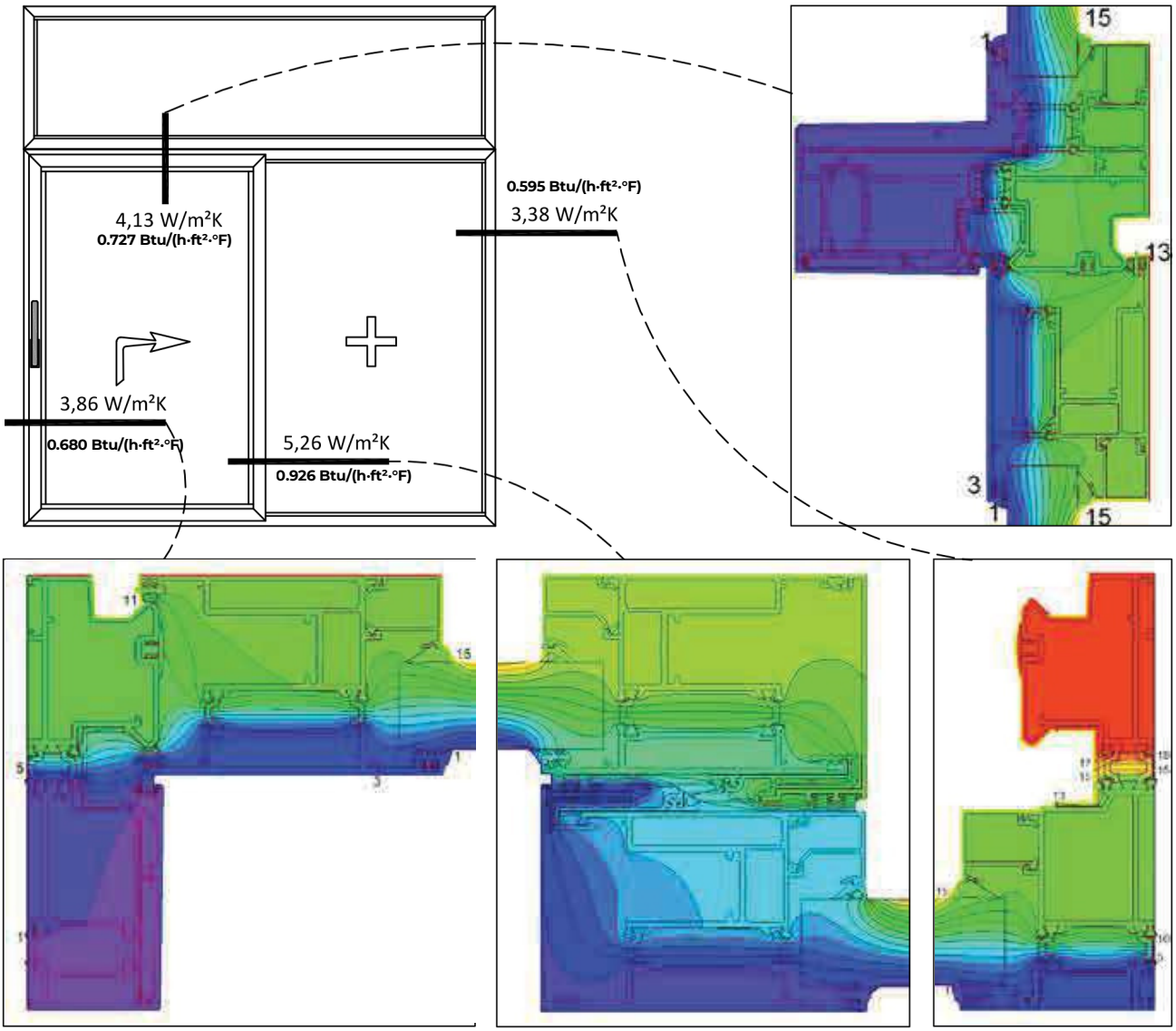
Fixed Window
Width: 49.291 in | 1252 mm
Height: 82.677 in | 2100 mm

PERFORMANCE TEST RESULTS

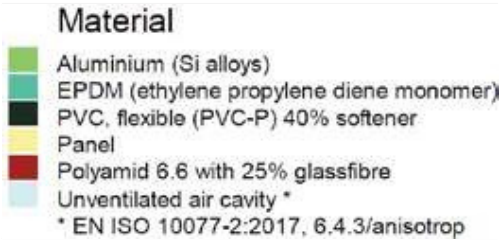
AIR PERMEABILITY - EN 12207	1 (3.13 psf | 150 Pa)	2 (6.27 psf | 300 Pa)	3 (9.398 psf | 450 Pa)	4 (12.531 psf | 600 Pa)					
WATERTIGHTNESS - EN 12208	2A 1.04 psf 50 Pa	3A 2.09 psf 100 Pa	4A 3.13 psf 150 Pa	5A 4.18 psf 200 Pa	6A 5.22 psf 250 Pa	7A 6.26 psf 300 Pa	8A 9.39 psf 450 Pa	9A 12.5 psf 600 Pa	E1200 25.1 psf 1200 Pa
RESISTANCE TO WIND LOAD- EN 12210	1 (8.35 psf | 400 Pa)	2 16.7 psf | 800 Pa	3 (25.1 psf | 1200 Pa)	4 33.5 psf | 1600 Pa	5 41.8 psf | 2000 Pa				
DEFLECTION CRITERIA - EN 12210	A (<L/150)	B (<L/200)	C (<L/300)						

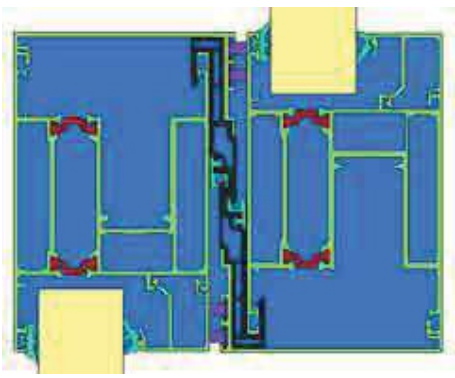
THERMAL INSULATION VALUES

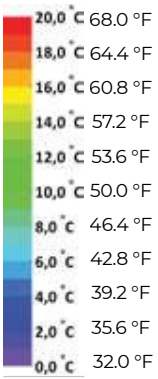
These are thermal calculation results created through the heat transfer analysis software with the Lift & Slide System.



MATERIALS AND SECTION COLORINGS







As per EN 10077-2 standard; room temperature is 68°F | 20°C, outer temperature is 32°F | 0°C and relative humidity is %50

STANDARDS USED IN STATIC CALCULATIONS

STATIC CALCULATION METHOD

DIN 1055, EN 13830

1-Horizontal Wind Load
2-Vertical Glass Load
3-Snow Load

Wind Load:

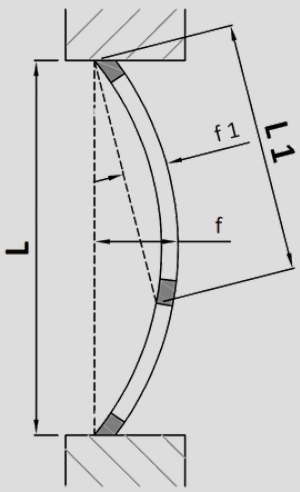
Before starting the static calculation, assign the wind shape coefficient and select the wind load from the table below according to the height of the building as a reference value.

Shape Coeffifcient of wind:

Height of building / Minimum width of building < 5 · **c = 1.2**
Height of building / Minimum width of building > 5 **c = 1.6**

SHAPE COEFFICIENT OF WIND	GROUND ELEVATION (ft)	WIND SPEED (mph)	ABSORBTION (lb/ft²)	WIND LOAD (lb/ft²)
1.2	0 - 26.25	62.7	10.24	12.29
	29.5-65.6	80.5	16.39	19.66
	68.9-328.1	94.0	22.53	27.03
	> 328.1	102.9	26.63	31.96
1.6	0 - 26.25	62.7	10.24	16.39
	29.5 - 65.6	80.5	16.39	26.22
	68.9 - 328.1	94.0	22.53	36.06
	> 328.1	102.9	26.63	42.59

DEFLECTION ACCEPTANCE OF STATIC CALCULATIONS:



SINGLE GLAZED

SUPPORT GAP	MAXIMUM DEFLECTION
L < 9.84 ft	f = L / 200
L > 9.84 ft	f = L / 300

DOUBLE GLAZED

WITHOUT TRANSOM	
L ≤ 9.84ft	f = max. 0.315in
L < 6.56ft	f = L / 200
WITH TRANSOM;	
a) GLASS HEIGHT L1 ;	
L1 ≤ 94.49in	f1 ≤ L1 / 300
L1 > 94.49in	f1 ≤ 0.315in
b) PROFILE LENGTH L ;	
L ≤ 118.11in	f1 ≤ L / 200
L > 78.74in	f1 ≤ L / 300

ABBREVIATIONS:

W: Wind Load
c: Wind shape coefficient
q: Speed Pressure
V: Wind Speed
L: Vertical Clearance
E: Elasticity Modulus
f: Maximum deflection

WIND LOAD & SPEED RELATED USAGE LIMITS

Information on Diagrams:

The curves shown in the tables are drawn separately for the total inertia value of reinforced or unreinforced purlin profiles and for four different wind loads of 12.29, 19.66, 27.03, 31.96 lb/ft² [60, 96, 132, and 156 kg/m²]. The shaded areas below the curves indicate the “applicable” dimensions for that wind load.

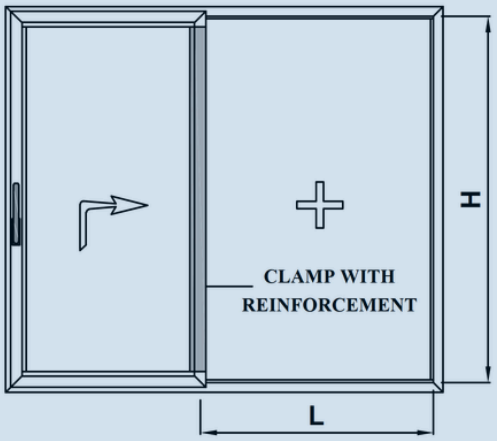
Limits of opening accessory:

Minimum - Maximum Sash Width: 27.56 in - 118.11 in | 700mm - 3000mm
Minimum - Maximum Sash Height: 33.46 in- 127.95 in | 850 mm - 3250 mm
Maximum Total Sash Weight: 881.85 lb | 400 kg

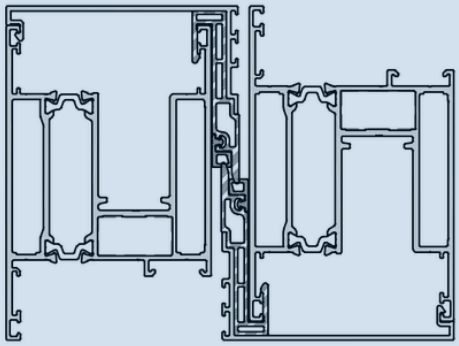
Limits of Static Calculations:

H: Vertical Transom Connection Clearance
L: Widest Horizontal Part Clearance
Deflection Criteria: H/300

DIAGRAM-1 STATIC DIAGRAM FOR CLAMP WITHOUT REINFORCEMENT

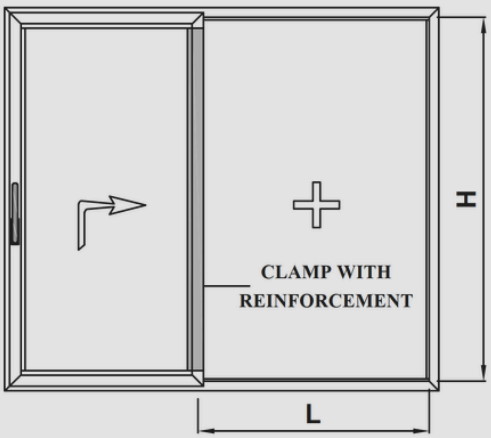


Static Value of Clamp Area Without Reinforcement:

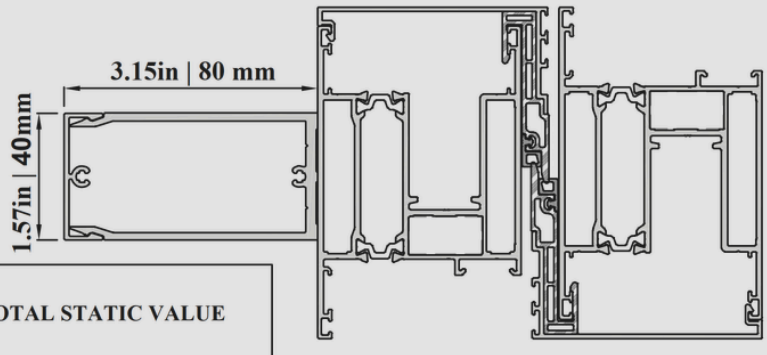


TOTAL STATIC VALUE
2.64 in⁴ | 110 cm⁴

DIAGRAM-2 STATIC DIAGRAM FOR CLAMP WITHOUT REINFORCEMENT



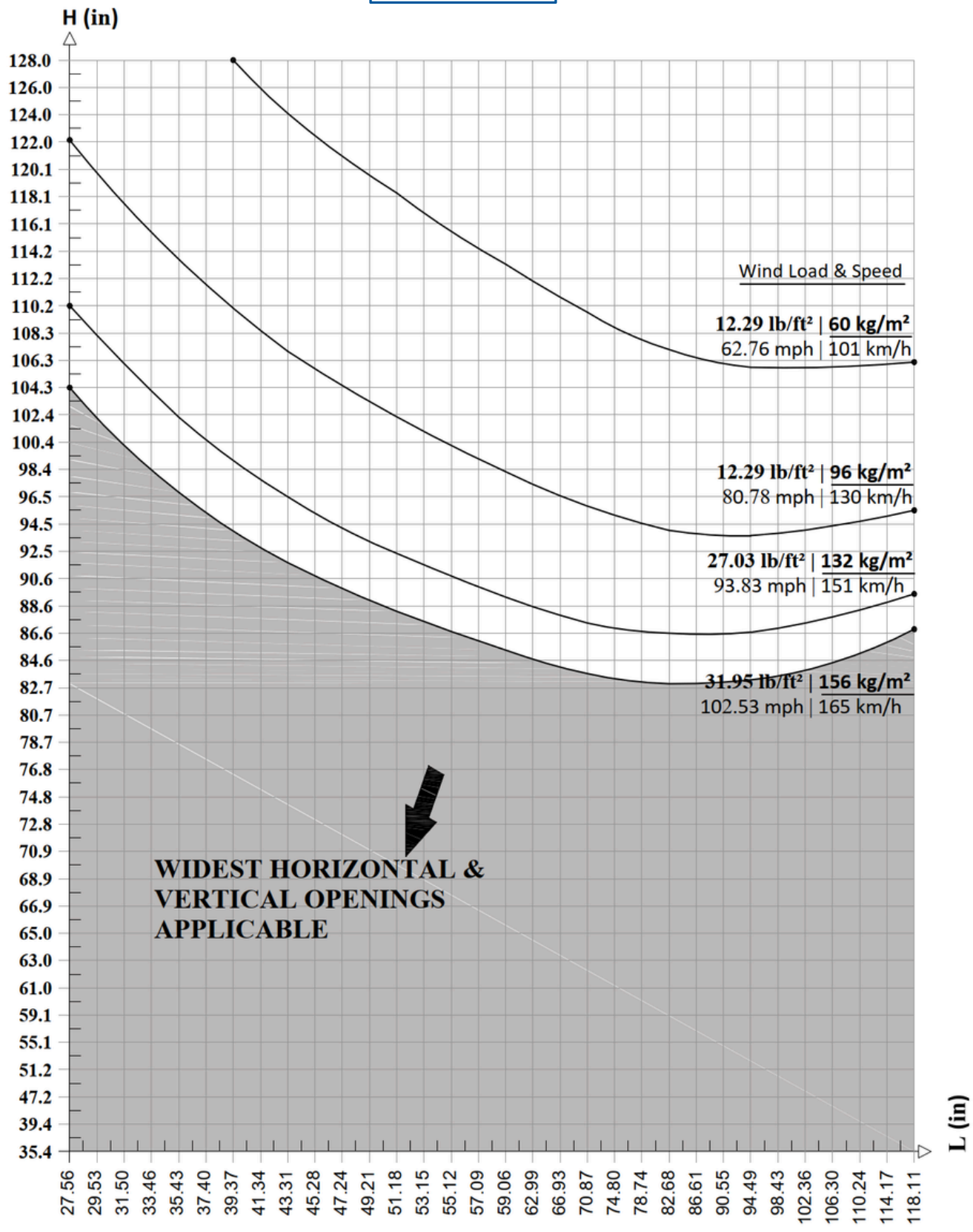
Static Value of Clamp Area With Reinforcement:



TOTAL STATIC VALUE
5.28 in⁴ | 220 cm⁴

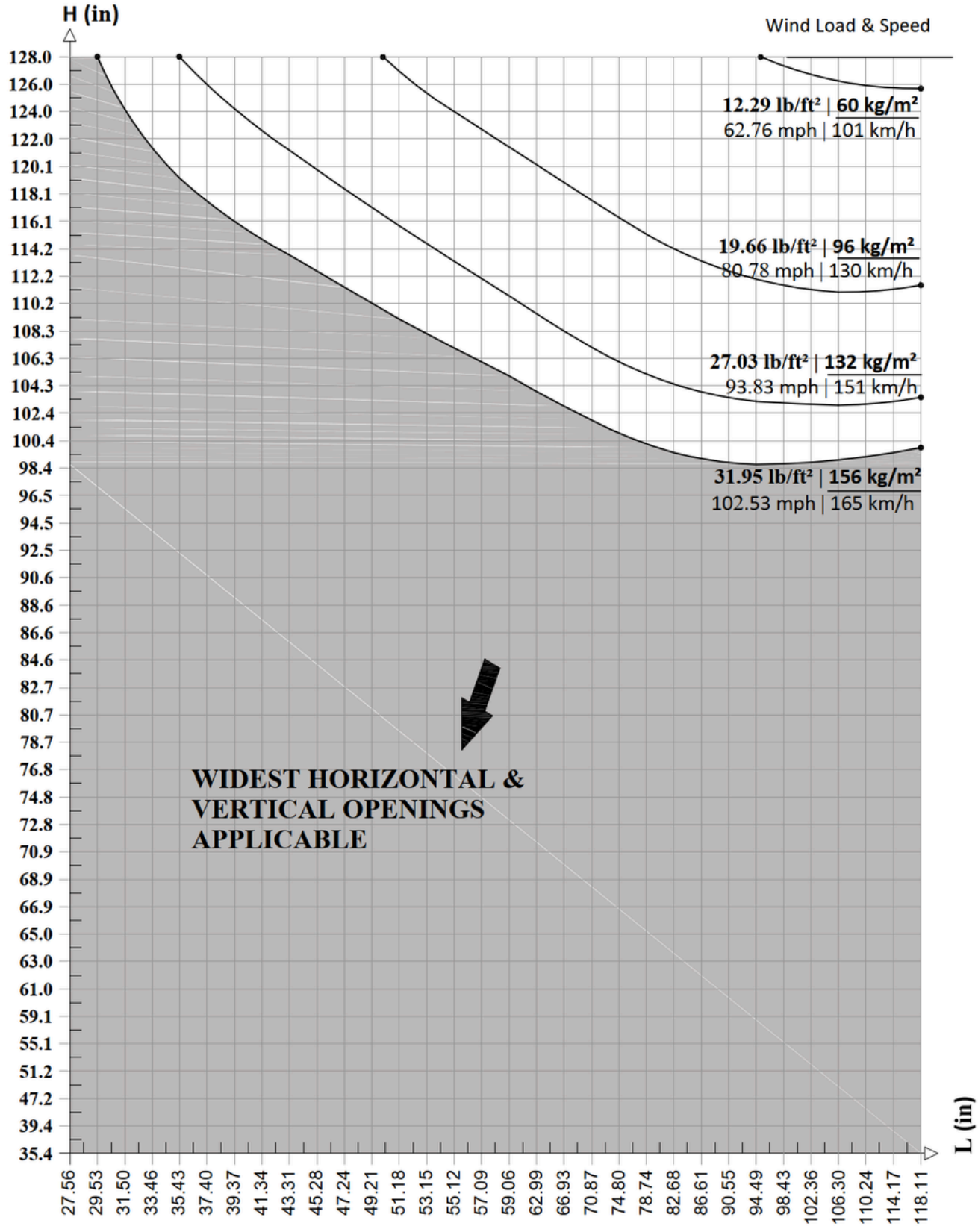
USAGE LIMITS DIAMGRAMS ACCORDING TO WIND & LOAD SPEED

DIAGRAM-1



USAGE LIMITS DIAMGRAMS ACCORDING TO WIND & LOAD SPEED

DIAGRAM-2



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10835 Shady Trail
Dallas, TX 75220
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HOUSTON BRANCH
4600 S Pinemont Dr.
Suite #164
Houston, TX 77041
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