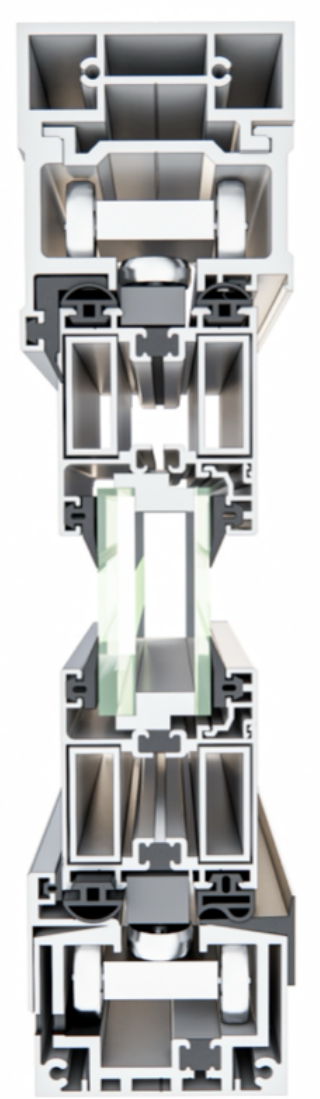
High Wind Systems Technical Guide

FoldA Aluminum 54 - High Wind

Hurricane Certified Systems for Non-Thermal Aluminum Frames

FoldA Aluminum 57 - High Wind

Hurricane Certified Systems for Thermally Broken Aluminum Frames



Florida Product Approved

Miami Dade Approved

HVHZ Impact Certified

Texas Department Insurance Approved

High Wind Systems for Other Regions

FoldA Aluminum 54 | 57 - High Wind

Hurricane Certified Systems for Non-Thermal & Thermally Broken Aluminum Frames

Approved with Impact Glass in Florida High Velocity Hurricane Zone (HVHZ) with Florida Product Approval FL#35364, FL#41797, and FL#47892

FoldA Aluminum 54 | 57 - High Wind is a high-performance, thermally broken aluminum folding system engineered for exceptional hurricane resistance and architectural versatility. Certified under Florida Product Approval (FL#35364, FL#41797, and FL#47892) and approved for High Velocity Hurricane Zones (HVHZ), this system meets Miami-Dade Impact Standards, ensuring reliable protection against hurricane-force winds, flying debris, and severe weather conditions.

With configurations available to accommodate various sizes, FoldA Aluminum 54 I 57 - High Wind delivers enhanced structural integrity and impact resistance. Its innovative design eliminates the need for traditional storm shutters, utilizing impact-rated glass for built-in hurricane protection while maintaining a sleek, modern aesthetic.

Ideal for both residential and commercial applications, this system integrates expansive glass openings with storm-grade durability, providing safety and architectural elegance. For comprehensive benefits of the FoldA system, please refer to our detailed sections on performance and design. Whether for coastal properties, high-velocity wind zones, or contemporary storefronts, FoldA Aluminum 54 I 57 - High Wind is engineered to excel in the most demanding environments.

The FoldA Aluminum 57 - High Wind system is certified under Florida Product Approval FL#35364 and FL#41797, covering both Impact and Non-Impact Series, with the latest Florida Approval number being FL#41797. The FoldA Aluminum 54 - High Wind system is certified under Florida Product Approval FL#47892.

This system has been rigorously tested and meets the requirements of Florida Building Codes TAS 201-94 for Impact Test Procedures, TAS 202-94 for Impact and Non-Impact Resistant Building Envelope Components, and TAS 203-94 for Cyclic Pressure Loading. Additionally, it adheres to the standards set forth by AAMA A440, ASTM E1886, and ASTM E1996.

With panel sizes of 36” x 80” (width x height), the FoldA Aluminum 54 I 57 - High Wind achieved a Design Pressure (DP) rating of ± 70.0. Similarly, with panel sizes of 36” x 96”, it also attained a DP rating of ± 60.0. With smaller panel sizes, higher DP ratings were achieved for Non-Impact Systems. See the Design Windload Charts for details.

This certification ensures that the FoldA Aluminum 54 I 57 - High Wind system provides exceptional hurricane resistance and meets the stringent demands of high-velocity wind zones, ensuring safety and durability in extreme weather conditions.

EZ-FOLD-A-DOOR’s FL Numbers

* FL#35364.1: AZ57-HW TWIN CORE ALUMINUM BIFOLD DOOR IMPACT
* FL#35364.2 AZ57-HW TWIN CORE ALUMINUM BIFOLD DOOR NON-IMPACT
* FL#41797.1: AZ57-HWF2 ALUMINUM BIFOLD DOOR IMPACT
* FL#41797.2: AZ57-HWF2 ALUMINUM BIFOLD DOOR NON-IMPACT
* FL#41797.3: AZ57-HWF2 TWIN CORE ALUMINUM BIFOLD DOOR IMPACT
* FL#41797.4: AZ57-HWF2 TWIN CORE ALUMINUM BIFOLD DOOR IMPACT
* FL#41797.5: AZ57-HWF2 TWIN CORE ALUMINUM BIFOLD DOOR NON-IMPACT
* FL#41797.6: AZ57-HWF2 TWIN CORE ALUMINUM BIFOLD DOOR NON-IMPACT
* FL#47892.1: FD54 TWIN CORE ALUMINUM BIFOLD DOOR IMPACT
* FL#47892.2: FD54 TWIN CORE ALUMINUM BIFOLD DOOR NON-IMPACT
* FL#47892.3: FD54 TWIN CORE ALUMINUM BIFOLD DOOR IMPACT
* FL#47892.4: FD54 TWIN CORE ALUMINUM BIFOLD DOOR IMPACT
* FL#47892.5: FD54 TWIN CORE ALUMINUM BIFOLD DOOR NON-IMPACT
* FL#47892.6: FD54 TWIN CORE ALUMINUM BIFOLD DOOR NON-IMPACT

Standards Used for Testing

* TAS 201-94 Impact Test Procedures
* TAS 202-94 Criteria for Testing Impact and Non-Impact Resistant Building Envelope Components using Uniform Static Air Pressure (Test Methods: ASTM E283 / ASTM E331 / ASTM E330)
* TAS 203-94 Criteria for Testing Products Subjected to Cyclic Pressure Loading (Test Method: ASTM F842-14)
* AAMA A440
* ASTM E1886
* ASTM E1996

Impressive Performance with AAMA/WDMA/CSA Testing Standards

Results for structural performance, air infiltration, water resistance and forced entry tests according to AAMA/WDMA/CSA 101/I.S.2/A4407-11/17 are aligned with the Dade County Protocol TAS 202.

ASTM E1886 and ASTM E1996 with missile impacts corresponding to Large Missile Impact Test Level D and Wind Zone 4, areas with the highest risk of hurricane-force winds.

The system met criteria for air leakage resistance as specified in ASTM E283-04(12), water penetration resistance in accordance with ASTM E57-00(16), structural integrity through uniform load deflection at DP and uniform load structural testing per ASTM E330-14, forced entry resistance in compliance with ASTM F842-14, and cycle wind pressure loading according to ASTM E1996. For comprehensive results, please see the Performance pages.

Standards Used for Testing

* AAMA/WDMA/CSA 101/I.S.2/A4407-11/17 NAFS - North American Fenestration Standard/Specification for windows, doors, and skylights
* AAMA/WDMA/CSA 101/I.S.2/A4407-11
* AAMA/WDMA/CSA 101/I.S.2/A4407-17
* ASTM E1886-05
* ASTM E1996-05/09 (WZ4)
* ASTM E283-04(12): Air leakage Resistance
* ASTM E547-00(16): Water Penetration Resistance
* ASTM E330-14: Uniform Load Deflection at Design Pressure
* ASTM E330-14: Uniform Load Structural Test
* ASTM F842-14: Forced Entry Resistance
* ASTM E98788(09): Deglazing Test
* ASTM E1996 (section 6): Large Missile Impact Performance Test
* ASTM E1996-05: Cycle Wind Pressure Loading
* ASTM E330
* ASTM F842

High Ratings in Water Penetration Resistance Testing:

FoldA Aluminum 54 | 57 - High Wind achieved a water rating of no leakage after 4 cycles of 5 minutes at 432 Pa (9.0 psf) per ASTM E547/ASTM E331.

Standards Used for Testing

* ASTM E547
* ASTM E331

NFRC-Certified Thermal Efficiency

The FoldA Aluminum 54 I 57 - High Wind system has been evaluated, certified, and labeled in compliance with NFRC 100 and NFRC 200 standards. Depending on the selected glass options, it can achieve specific U-factor and Solar Heat Gain Coefficient (SHGC) values suitable for different climate zones. For further information, please refer to the ‘Thermal Performance” section.

Standards Used for Testing

* ANSI/NFRC 100-2017 Procedure for Determining Fenestration Product U-factors
* ANSI/NFRC 200-2017 Procedure for Determining Fenestration Product Solar Heat Gain Coefficients and Visible Transmittance at Normal Incidence
* NFRC 500-2017 Procedure for Determining Fenestration Product Condensation Resistance Value
* THERM 7/ WINDOW 7 NFRC Simulation Manual (July 2017)
* NFRC 2010 Technical Interpretations Manual (November 2017)
* NFRC 601 Units and Measurement Policy
* NFRC 102-2017 Procedure for Measuring the Steady-State Thermal Transmittance of Fenestration Systems
* NFRC 400-2017 Procedure for Determining Fenestration Product Air Leakage
* ANSI/NFRC 400
* ASTM E283-04(12)
* ASTM C1363
* ASTM C1199

Acoustical Performance

Although the FoldA Aluminum 54 I 57 - High Wind system has not been tested for acoustical performance with impact glass, the FoldA Aluminum 54 I 57 (which has the same profiles) has been tested by an independent acoustic lab for acoustical performance.

The acoustic performance of FoldA Aluminum 54 I 57 varies depending on the glass options available. Please consult a sales representative to determine the best glass and track combination for your needs.

Glass Type	Description	STC
Single Pane	5 mm	30*
	6 mm	31
	12 mm	36
Dual Pane (laminated)	6.76 mm, 3 mm/0.76/3 mm	35
	10.76 mm, 5 mm/0.76/5 mm	36
	12.76 mm, 6 mm/0.76/6 mm	38
Dual Pane	24 mm, 6 mm + 12 Ar + 6 mm (sealed)	35
Triple Pane (laminated)	21.76 mm, 3 mm/0.76/3 mm + 10Ar + 5 mm (sealed)	37
	23.76 mm, 3 mm/0.76/3 mm + 12Ar + 5 mm (sealed)	39
	24.76 mm, 3 mm/0.76/3 mm + 12Ar + 6 mm (sealed)	39
	28.76 mm, 5 mm/0.76/5 mm + 12Ar + 6 mm (sealed)	41*
Triple Pane	36 mm, 5 mm + 10Ar + 5 mm + 10 Ar + 6 mm (sealed)	38*
	42 mm, 6 mm + 12Ar + 6 mm + 12 Ar + 6 mm (sealed)	39
Double Dual Pane (laminated)	25.52 mm, 3 mm/0.76/3 mm + 12Ar + 3 mm/0.78/3 mm (sealed)	42

*: estimated value

Strength and Resilience Needed for High Wind Solutions, Adding Protection Against Intrusion

The FoldA Aluminum 54 | 57 - High Wind is a standout choice in high wind systems due to its exceptional combination of strength and resilience.

Twin Core Technology

Our Twin Core Technology provides maximum strength to withstand hurricane-force winds and flying debris. This reinforced design ensures long-term durability and reliability in the harshest conditions.

HD (Heavy Duty) Track - Bottom Support & Top Hung

Our HD track delivers supreme stability by supporting the system's weight through both bottom support and top hung configurations. This design evenly distributes the system's weight, while the bottom track's carriages are strategically placed above the water level to enhance performance.

Double Top and Bottom Bar Locks

controlled by two low-profile center-mounted lever handles

The FoldA Aluminum 54 | 57 - High Wind enhances security with a Double Locking System, adding an extra low-profile lever handle and reinforced top and bottom bar locks to our existing locking mechanism. The center-mounted lever handles secure each panel pair, while the entrance handle mortise lock system ensures superior protection against both extreme weather and intrusion, all while maintaining a sleek and functional design.

AZON™ Thermal Barriers

Our AZON™ thermal barriers interrupt energy flow through aluminum frames, ensuring lower U-Factors and SHGC while offering exceptional structural strength. The design encapsulates AZON's insulating polymer, creating a durable non-metal-to-metal thermal barrier with superior impact resistance and heat distortion. AZON™ is exclusive to the FoldA Aluminum 57 High Wind and is **not available** for the FoldA Aluminum 54 High Wind system.

Integrated Security Hinges

Our Integrated Security Hinges feature a unique design where the hook of the hinge is intertwined with the frame, making it almost impossible to break in. This clever integration enhances overall security while ensuring smooth operation.

General Description

The FoldA Aluminum 54 | 57 - High Wind is designed to provide a folding system with panels capable of heights up to 11'6" (3500 mm) and up to 14'9" (4500 mm) with a horizontal mullion. It offers numerous configurations, accommodating anywhere from one to unlimited panels. The minimum panel width is 12” (304.8 mm), while the maximum panel width for this system is 50” (1270 mm), respectively. Intersection of two folding doors is 4 51/54” (122 mm) for FoldA Aluminum 54 and 5 3/64” (128 mm) for FoldA Aluminum 57.

The FoldA Aluminum 54 | 57 - High Wind is available in two types of finishes. The EZ-FOLD-A-DOOR utilizes one of the best products available today: Fropon™ PVdf Resin Superior Performance Coatings, which are architectural coatings for aluminum frames. Our aluminum frames are first anodized and then coated. The Fropon surface is manufactured under license from Arkema™ using their Kynar500™ material. Our coating finishes are backed by numerous ASTM and AAMA certifications. For those who desire a natural texture, such as wood or concrete, we offer acrylic composite foils that provide weatherability against UV rays, heat-blocking functionality against infrared rays, and resistance to water and moisture.

Glass

The FoldA Aluminum 54 | 57 - High Wind is available with Impact-Resistant Glass options, including PVB™ and SentryGlas™ interlayer, designed to withstand hurricane-force winds and flying debris. For projects that do not require impact certification, Non-Impact Glass is also available. The glass thickness options for FoldA Aluminum 54 are 0.1969” (5 mm) / 0.3150” (8 mm) / 0.3937” (10 mm) / 0.4724” (12 mm) / 0.6299“ (16 mm) / 0.8661“ (22 mm) / 0.9448” (24 mm) / 1.1024“ (28 mm) with impact and non-impact glass options. The glass thickness options for FoldA Aluminum 57 are 0.6299” (16 mm) / 0.8661” (22 mm) / 0.9448” (24 mm) / 1.1024” (28 mm) / 1.2598” (32 mm) / 1.2992” (33 mm) with impact and non-impact glass options.

All Weather Seals

The FoldA Aluminum 54 | 57 - High Wind features all-weather seals (EPDM), this system ensures superior resistance to air and water infiltration. The advanced sealing technology enhances energy efficiency while providing protection against extreme weather conditions.

Hardware - Frames, Rollers, Hinges

The FoldA Aluminum 54 I 57 - High Wind utilizes a thick 5 mm high-strength aluminum frame, which not only enhances load-bearing support and durability but also reduces thermal conductivity, improving insulation, soundproofing, and wind resistance.

The top and bottom tracks are designed not just as guides but as structural elements capable of bearing actual weight, further enhancing stability. The rollers in the bottom track are positioned above the weep hole, helping to prevent corrosion.

By employing sealed stainless steel bearings that excel in corrosion and rust resistance, the rollers provide smooth operation and stability without wobbling. Due to the properties of stainless steel, they also maintain excellent shine for long-term use.

The hinges are designed with a double structure between the hinge and the fixed pin, reducing friction while ensuring a consistently smooth operation. Additionally, the Integrated Security Hinges contribute to preventing unauthorized entry.

Handles

The handle features a simple yet modern design that not only adds a touch of elegance but is also ergonomically designed for excellent convenience and grip. With three layers of fluoropolymer coating and one layer of clear coating on the aluminum, the total of four coatings reduces the likelihood of scratches, enhancing practicality. The handle can be moved to a vertical 90-degree angle to easily open or close the folding door. The auxiliary handle also boasts a clean finish and offers functionality for easy door operation.

Fold Types and Special Functions

The FoldA Aluminum 54 I 57 - High Wind provides various folding configurations with the flexibility of using one to unlimited panels. Options include infold or outfold types, with or without egress doors, as well as single-side or double-side folds. Special function options such as zero corner configurations, freeway folds, curved designs, and window-to-door transitions are also available.

Optional Features

The FoldA Aluminum 54 | 57 - High Wind includes a range of optional features, such as solid panels, pet doors, retractable insect screens, smart glass, and mullions, allowing for tailored solutions to meet individual needs.

Which High Wind System is Right for You?

Step 1: Assess Your Location

Understanding your region's hurricane risk is the first step in selecting the right system. Identify whether you are in a high-wind or hurricane-prone area and check local building codes to determine the required level of protection.

- 1-1: Florida Residents – A Florida Certified System is required to meet strict building regulations, including Florida Product Approval and HVHZ certification.
- 1-2: Non-Florida Residents – For areas outside Florida with high wind exposure, a TDI (Texas Department of Insurance) Approved System or other regional high-wind-rated systems may be necessary.

Step 2: Determine Your Protection Level

Assess the level of hurricane protection required based on your location's wind speed and building requirements.

- 2-1: Impact Systems – Designed for areas prone to extreme weather, impact-rated systems provide superior resistance against hurricane-force winds and flying debris.
- 2-2: Non-Impact Systems – Suitable for high-wind areas where impact resistance is not mandated but structural strength and weather sealing are still essential.

For Florida residents, refer to the Florida Wind Map or your building plans to determine the required wind load for your structure.

Step 3: Determine Design Pressure (DP)

Design Pressure (DP) is a critical factor in selecting your hurricane system. Use the latest State of Florida conversion table to translate your location's wind speed into the required DP rating. Ensuring your system meets or exceeds this rating guarantees optimal performance during extreme weather conditions.

Step 4: Select Your System Dimensions

Choose the appropriate height, width, and panel configuration based on your project's structural layout. Consider factors such as door clearance, available space, and operational convenience when determining system size.

Step 5: Choose Your Folding Configuration

Select the best folding configuration for your needs. Options include inswing or outswing setups, center or side stacking, and the number of panels required to fit your space while maintaining functionality and aesthetics.

Step 6: Review Finish Options

Your hurricane system should not only provide protection but also complement your architectural style. Choose from a variety of frame finishes, colors, and hardware options to match your project's design. For personalized guidance, consult with our design specialists to find the ideal combination of durability and aesthetics.

Performance Results

Type of Test	PVB IMPACT 36x80 XX [08*]	PVB IMPACT 36x80 XXXX [09*]	PVB IMPACT 36x96 XX [10*]	PVB IMPACT 36x96 XXXX [11*]	SGP IMPACT 36x80 XX [01*]	SGP IMPACT 36x80 XXXX [03*]	SGP IMPACT 36x96 XX [04*]	SGP IMPACT 36x96 XXXX [05*]	Non Impact [04*]	Non Impact [05*]	Non Impact [10*]	Non Impact [11*]
Air Infilteration TAS 202-94 ASTM E283 AAMA/WDMA/CSA 101/I.S.2/A4407-11/17 AAMA 9.3.2 CSA 5.3 ASTM E283-04(12) **[cfm/ft²]**	@1.6 0.047	@1.6 0.161	@1.6 0.001	@1.60 0.006	@1.60 0.047	@1.60 0.161	@1.60 0.001	@1.60 0.006	@1.60 0.001	@1.60 0.006	@1.6 0.001	@1.60 0.006
Water Penetration Resistance TAS 202-94 ASTM E-331 AAMA/WDMA/CSA 101/I.S.2/A4407-11/17 A440 9.3.3/CSA 5.4 ASTM E547-00(16) **[psf]**	10.5 psf (504 Pa) Passed- No water penetration	10.5 psf (504 Pa) Passed- No water penetration	9.0 psf (432 Pa) Passed- No water penetration	9.0 psf (432 Pa) Passed- No water penetration	10.5 psf (504 Pa) Passed- No water penetration	10.5 psf (504 Pa) Passed- No water penetration	9.0 psf (432 Pa) Passed- No water penetration	9.0 psf (432 Pa) Passed- No water penetration	9.0 psf (432 Pa) Passed- No water penetration	9.0 psf (432 Pa) Passed- No water penetration	9.0 psf (432 Pa) Passed- No water penetration	9.0 psf (432 Pa) Passed- No water penetration
Design Load Pressure TAS 202-94 ASTM E-330 AAMA/WDMA/CSA 101/I.S.2/A4407-11/17 A440 9.3.4.2 ASTM E330-14 **[psf]**	± 70.0	± 70.0	± 60.0	± 60.0	± 70.0	± 70.0	± 60.0	± 60.0	± 60.0	± 60.0	± 60.0	± 60.0
Overload/ Structural Load Pressures TAS 202-94 ASTM E-330 AAMA/WDMA/CSA 101/I.S.2/A4407-11/17 A440 9.3.4.3 ASTM E330-14 **[psf]**	±105.0	±105.0	± 90.0	± 90.0	±105.0	±105.0	± 90.0	± 90.0	± 90.0	± 90.0	± 90.0	± 90.0
Forced Entry Resistance TAS 202-94 ASTM F842-14 AAMA/WDMA/CSA 101/I.S.2/A4407-11/17 A440 9.3.5	Passed -Grade 10	Passed -Grade 10	Passed -Grade 10	Passed -Grade 10	Passed -Grade 10	Passed -Grade 10	Passed -Grade 10	Passed -Grade 10	Passed- Grade 10	Passed- Grade 10	Passed- Grade 10	Passed- Grade 10
Large Missile Impact TAS 201-94 ASTM E1996 ASTM E1886	Passed Level D, Wind Zone 4	Passed Level D, Wind Zone 4	Passed Level D, Wind Zone 4	Passed Level D, Wind Zone 4	Passed Level D, Wind Zone 4	Passed Level D, Wind Zone 4	Passed Level D, Wind Zone 4	Passed Level D, Wind Zone 4	Passed Level D, Wind Zone 4	Passed Level D, Wind Zone 4	Passed Level D, Wind Zone 4	Passed Level D, Wind Zone 4
Cyclic Wind Pressure Loading TAS 203-94 ASTM F842-14 ASTM E1996-05 **[psf]**	± 55.0	± 55.0	± 55.0	± 55.0	± 70.0	± 70.0	± 60.0	± 60.0	± 60.0	± 60.0	± 55.0	± 55.0

- [*]: Refer to the last two digits of NCTL test reports.
- The results shown are excerpts from tests conducted by NCTL (National Certified Testing Laboratories), an independent accredited laboratory, on various panel types and configurations.
- For Canada, tested to CSA 5.3.
- Refer to the official test reports and the State of Florida's website for verification of all information herein.

Thermal Performance

Type of Glass	Center of Glass U-Factor	Unit U-Factor	SHGC	VLT
Triple Pane H/S Low E Lami Argon Impact HW EHD PVB1	**0.22**	0.40	0.36	0.46
Triple Pane H/S Low E Lami Argon Impact HW/HURR EHD PVB3	**0.22**	0.40	0.36	0.45
Triple Pane H/S Low E Lami Argon Impact HW/ SB PVB1	**0.21**	0.38	0.21	0.45
Triple Pane H/S Low E Lami Argon Impact HW/HURR SB PVB3	**0.21**	0.38	0.21	0.45
Triple Pane H/S Low E Lami Argon Impact HW/HURR EHD SG	**0.22**	0.40	0.36	0.46
Triple Pane H/S Low E Lami Argon Impact HW/HURR SB SG	**0.21**	0.38	0.21	0.45
Triple Pane H/S Low E Lami Argon Impact HW/HURR EA6 SG	**0.36**	0.43	0.41	0.51
Triple Pane H/S Low E Lami Argon Impact HW/HURR EA5 SG	**0.36**	0.43	0.41	0.51

* SHGC = Solar Heat Gain Coefficient / VLT = Visible Light Transmittance
* The thermal performance values shown above represent a selection of available glass options. Additional glass configurations are also available and may be suitable for meeting specific performance requirements, including Energy Star criteria for various climate zones, California Title 24 standards, and other state or local energy codes.
* Thermal performance was also tested and verified by NCTL.
* Please contact EZ-FOLD-A-DOOR for more information.
* Refer to the official test reports and the NFRC website for verification of all information herein.

FoldA Aluminum 54 | 57 High Wind - Impact with SGP lamination

Florida Product Approved
Miami Dade Approved
HVHZ Impact Certified
Texas Department Insurance Appoved

Design Pressure Capacity Chart (psf)

Panel Height (in)	Panel Width (in)								
	18.0	**21.0**	**24.0**	**27.0**	**30.0**	**33.0**	**36.0**	**39.0**	**40.0**
18.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
24.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
30.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
36.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
42.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
48.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
54.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
60.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
66.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
72.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
78.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	66.3	64.6
80.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	64.6	63.0
84.0	70.0	70.0	70.0	70.0	70.0	66.0	60.5	60.0	60.0
90.0	70.0	70.0	70.0	65.6	60.0	60.0	60.0	59.1	57.6
96.0	70.0	69.4	60.8	60.0	60.0	60.0	60.0	55.4	54.0
102.0	67.5	60.0	60.0	60.0	60.0	54.6	50.0	46.2	45.0
108.0	60.0	60.0	60.0	56.2	50.6	46.0	42.1	38.9	37.9
114.0	60.0	60.0	53.7	47.8	43.0	39.1	35.8	33.1	32.2
120.0	60.0	52.7	46.1	41.0	36.9	33.5	30.7	28.4	27.6

* Systems that are outside of the specifications of the above FL#'s need to be processed as a One-Time Product Approval.

* Derived from maximum design pressure per comparision. Tested Panel Sizes: 36.0 in x 80.0 in (width x height) and 36.0 in x 96.0 in (width x height).

* Standards used for testing: TAS 201, 202, 203.

• Refer to the official test reports and the State of Florida's website for verification of all information herein.

FoldA Aluminum 54 | 57 High Wind - Impact with PVB lamination

Florida Product Approved
Miami Dade Approved
HVHZ Impact Certified
Texas Department Insurance Appoved

Design Pressure Capacity Chart (psf)

Panel Height (in)	Panel Width (in)								
	18.0	**21.0**	**24.0**	**27.0**	**30.0**	**33.0**	**36.0**	**39.0**	**40.0**
18.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
24.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
30.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
36.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
42.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
48.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
54.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
60.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
66.0	70.0	70.0	70.0	70.0	70.0	70.0	67.7	61.5	60.0
72.0	70.0	70.0	70.0	70.0	70.0	70.0	66.7	61.5	60.0
78.0	70.0	70.0	70.0	70.0	70.0	66.7	61.1	60.0	60.0
80.0	70.0	70.0	70.0	70.0	66.0	60.0	60.0	55.4	54.0
84.0	70.0	70.0	70.0	63.3	60.0	60.0	57.1	52.7	51.4
90.0	70.0	66.2	60.0	60.0	60.0	58.2	53.3	49.2	48.0
96.0	63.7	60.0	60.0	60.0	60.0	54.5	50.0	46.2	45.0
102.0	60.0	60.0	60.0	55.6	50.0	45.5	41.7	38.5	37.5
108.0	60.0	60.0	52.7	46.8	42.1	38.3	35.1	32.4	31.6
114.0	59.7	51.2	44.8	39.8	35.8	32.6	29.9	27.6	26.9
120.0	51.2	43.9	38.4	34.1	30.7	27.9	25.6	23.6	23.0

* Systems that are outside of the specifications of the above FL#'s need to be processed as a One-Time Product Approval.

* Derived from maximum design pressure per comparision. Tested Panel Sizes: 36.0 in x 80.0 in (width x height) and 36.0 in x 96.0 in (width x height).

* Standards used for testing: TAS 201, 202, 203.

• Refer to the official test reports and the State of Florida's website for verification of all information herein.

FoldA Aluminum 54 | 57 High Wind - Non-Impact

Florida Product Approved
Miami Dade Approved
HVHZ Impact Certified
Texas Department Insurance Appoved

Design Pressure Capacity Chart (psf)

Panel Height (in)	Panel Width (in)																	
	18.0		21.0		24.0		27.0		30.0		33.0		36.0		39.0		40.0	
	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-
18.0	70.0	105.0	70.0	105.0	70.0	105.0	70.0	105.0	70.0	105.0	70.0	105.0	70.0	105.0	70.0	105.0	70.0	105.0
24.0	70.0	105.0	70.0	105.0	70.0	105.0	70.0	105.0	70.0	105.0	70.0	105.0	70.0	105.0	70.0	105.0	70.0	105.0
30.0	70.0	105.0	70.0	105.0	70.0	105.0	70.0	105.0	70.0	105.0	70.0	105.0	70.0	105.0	70.0	105.0	70.0	105.0
36.0	70.0	105.0	70.0	105.0	70.0	105.0	70.0	105.0	70.0	105.0	70.0	105.0	70.0	105.0	70.0	105.0	70.0	105.0
42.0	70.0	105.0	70.0	105.0	70.0	105.0	70.0	105.0	70.0	105.0	70.0	105.0	70.0	105.0	70.0	105.0	70.0	105.0
48.0	70.0	105.0	70.0	105.0	70.0	105.0	70.0	105.0	70.0	105.0	70.0	105.0	70.0	105.0	70.0	105.0	70.0	105.0
54.0	70.0	105.0	70.0	105.0	70.0	105.0	70.0	105.0	70.0	105.0	70.0	105.0	70.0	93.3	70.0	95.7	70.0	93.3
60.0	70.0	105.0	70.0	105.0	70.0	105.0	70.0	105.0	70.0	105.0	70.0	101.8	70.0	90.0	70.0	88.6	70.0	86.4
66.0	70.0	105.0	70.0	105.0	70.0	105.0	70.0	105.0	70.0	101.8	70.0	92.6	70.0	87.3	70.0	80.6	70.0	78.5
72.0	70.0	105.0	70.0	105.0	70.0	105.0	70.0	103.7	70.0	93.3	70.0	87.3	70.0	80.0	70.0	73.8	70.0	72.0
78.0	70.0	105.0	70.0	105.0	70.0	105.0	70.0	95.7	70.0	88.6	70.0	80.6	70.0	73.8	66.3	68.2	64.6	66.5
80.0	70.0	105.0	70.0	105.0	70.0	105.0	70.0	93.3	70.0	86.4	70.0	78.5	70.0	72.0	64.6	66.5	63.0	64.8
84.0	70.0	105.0	70.0	103.7	70.0	90.7	70.0	90.0	70.0	82.3	60.5	74.8	60.5	68.6	60.0	63.3	60.0	61.7
90.0	70.0	98.3	70.0	90.0	70.0	90.0	65.6	85.3	60.0	76.8	60.0	69.8	60.0	64.0	59.1	59.1	57.6	57.6
96.0	70.0	90.0	69.4	90.0	60.8	90.0	60.0	80.0	60.0	72.0	60.0	65.5	60.0	60.0	55.4	55.4	54.0	54.0
102.0	67.5	90.0	60.0	85.8	60.0	75.0	60.0	66.7	60.0	60.0	54.6	54.6	50.0	50.0	46.2	46.2	45.0	45.0
108.0	60.0	84.3	60.0	72.2	60.0	63.2	56.2	56.2	50.6	50.6	46.0	46.0	42.1	42.1	38.9	38.9	37.9	37.9
114.0	60.0	71.7	60.0	61.4	53.7	53.7	47.8	47.8	43.0	43.0	39.1	39.1	35.8	35.8	33.1	33.1	32.2	32.2
120.0	60.0	61.4	52.7	52.7	46.1	46.1	41.0	41.0	36.9	36.9	33.5	33.5	30.7	30.7	28.4	28.4	27.6	27.6

* Systems that are outside of the specifications of the above FL#'s need to be processed as a One-Time Product Approval.

* Derived from maximum design pressure per comparision. Tested Panel Sizes: 36.0 in x 80.0 in (width x height) and 36.0 in x 96.0 in (width x height).

* Standards used for testing: TAS 202.

• Refer to the official test reports and the State of Florida's website for verification of all information herein.

FoldA Aluminum 54 | 57 HW - Impact with SGP - Other regions

Design Pressure Capacity Chart (psf)

Panel Height (in)	Panel Width (in)								
	18.0	**21.0**	**24.0**	**27.0**	**30.0**	**33.0**	**36.0**	**39.0**	**40.0**
18.0	640.0	548.6	480.0	426.7	384.0	349.1	320.0	295.4	288.0
24.0	480.0	411.4	360.0	320.0	288.0	261.8	240.0	221.5	216.0
30.0	384.0	329.1	288.0	256.0	230.4	209.5	192.0	177.2	172.8
36.0	320.0	274.3	240.0	213.3	192.0	174.5	160.0	147.7	144.0
42.0	274.3	235.1	205.7	182.9	164.6	149.6	137.1	126.6	123.4
48.0	240.0	205.7	180.0	160.0	144.0	130.9	120.0	110.8	108.0
54.0	213.3	182.9	160.0	142.2	128.0	116.4	106.7	98.5	96.0
60.0	192.0	164.6	144.0	128.0	115.2	104.7	96.0	88.6	86.4
66.0	174.5	149.6	130.9	116.4	104.7	85.2	87.3	80.6	78.5
72.0	160.0	137.1	120.0	96.0	96.0	87.3	80.0	73.8	72.0
78.0	147.7	126.6	110.8	88.6	88.6	80.6	73.8	68.2	66.5
80.0	144.0	123.4	108.9	86.4	86.4	78.5	72.0	66.5	64.8
84.0	137.1	117.6	102.9	82.3	82.3	74.8	68.6	63.3	61.7
90.0	128.0	109.7	96.0	76.8	76.8	69.8	64.0	59.1	57.6
96.0	120.0	102.9	90.0	72.0	72.0	65.5	60.0	55.4	54.0
102.0	100.0	85.8	75.0	60.0	60.0	54.6	50.0	46.2	45.0
108.0	84.3	72.2	63.2	50.6	50.6	46.0	42.1	38.9	37.9
114.0	71.7	61.4	53.7	43.0	43.0	39.1	35.8	33.1	32.2
120.0	61.4	52.7	46.1	36.9	36.9	33.5	30.7	28.4	27.6

* Derived from maximum design pressure per comparision. Tested Panel Sizes: 36.0 in x 96.0 in (width x height).

• Refer to the official test reports for verification of all information herein.

* Standards used for testing: TAS 201, 202, 203.

FoldA Aluminum 54 | 57 HW - Impact with PVB - Other regions

Design Pressure Capacity Chart (psf)

Panel Height (in)	Panel Width (in)								
	18.0	**21.0**	**24.0**	**27.0**	**30.0**	**33.0**	**36.0**	**39.0**	**40.0**
18.0	533.3	457.1	400.0	355.6	320.0	290.9	266.7	246.2	240.0
24.0	400.0	342.9	300.0	266.7	240.0	218.2	200.0	184.6	180.0
30.0	320.0	274.3	240.0	213.3	192.0	174.5	160.0	147.7	144.0
36.0	266.7	228.6	200.0	177.8	160.0	145.5	133.3	123.1	120.0
42.0	228.6	195.9	171.4	152.4	137.1	124.7	114.3	105.5	102.9
48.0	200.0	171.4	150.0	133.3	120.0	109.1	100.0	92.3	90.0
54.0	177.8	152.4	133.3	118.5	106.7	97.0	88.9	82.1	80.0
60.0	160.0	137.1	120.0	106.7	96.0	87.3	80.0	73.8	72.0
66.0	145.5	124.7	109.1	97.0	87.3	79.3	72.7	67.1	65.5
72.0	133.3	114.3	100.0	88.9	80.0	72.7	66.7	61.5	60.0
78.0	123.1	105.5	92.3	82.1	73.8	67.1	61.5	56.8	55.4
80.0	120.0	102.9	90.0	80.0	72.0	65.5	60.0	55.4	54.0
84.0	114.3	98.0	85.7	76.2	68.6	62.3	57.1	52.7	51.4
90.0	106.7	91.4	80.0	71.1	64.0	58.2	53.3	49.2	48.0
96.0	100.0	85.7	75.0	66.7	60.0	54.5	50.0	46.2	45.0
102.0	83.4	71.5	62.5	55.6	50.0	45.5	41.7	38.5	37.5
108.0	70.2	60.2	52.7	46.8	42.1	38.3	35.1	32.4	31.6
114.0	59.7	51.2	44.8	39.8	35.8	32.6	29.9	27.6	26.9
120.0	51.2	43.9	38.4	34.1	30.7	27.9	25.6	23.6	23.0

* Derived from maximum design pressure per comparision. Tested Panel Sizes: 36.0 in x 96.0 in (width x height).

• Refer to the official test reports for verification of all information herein.

* Standards used for testing: TAS 201, 202, 203.

FoldA Aluminum 54 | 57 HW - Non-Impact - Other regions

Design Pressure Capacity Chart (psf)

Panel Height (in)	Panel Width (in)																	
	18.0		21.0		24.0		27.0		30.0		33.0		36.0		39.0		40.0	
	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-
18.0	640.0	640.0	548.6	548.6	480.0	480.0	426.7	426.7	384.0	384.0	349.1	349.1	320.0	320.0	295.4	295.4	288.0	288.0
24.0	480.0	480.0	411.4	411.4	360.0	360.0	320.0	320.0	288.0	288.0	261.8	261.8	240.0	240.0	221.5	221.5	216.0	216.0
30.0	384.0	384.0	329.1	329.1	288.0	288.0	256.0	256.0	230.4	230.4	209.5	209.5	192.0	192.0	177.2	177.2	172.8	172.8
36.0	320.0	320.0	274.3	274.3	240.0	240.0	213.3	213.3	192.0	192.0	174.5	174.5	160.0	160.0	147.7	147.7	144.0	144.0
42.0	274.3	274.3	235.1	235.1	205.7	205.7	182.9	182.9	164.6	164.6	149.6	149.6	137.1	137.1	126.6	126.6	123.4	123.4
48.0	240.0	240.0	205.7	205.7	180.0	180.0	160.0	160.0	144.0	144.0	130.9	130.9	120.0	120.0	110.8	110.8	108.0	108.0
54.0	213.3	213.3	182.9	182.9	160.0	160.0	142.2	142.2	128.0	128.0	116.4	116.4	106.7	106.7	98.5	98.5	96.0	96.0
60.0	192.0	192.0	164.6	164.6	144.0	144.0	128.0	128.0	115.2	115.2	104.7	104.7	96.0	96.0	88.6	88.6	86.4	86.4
66.0	174.5	174.5	149.6	149.6	130.9	130.9	116.4	116.4	104.7	104.7	95.2	95.2	87.3	87.3	80.6	80.6	78.5	78.5
72.0	160.0	160.0	137.1	137.1	120.0	120.0	106.7	106.7	96.0	96.0	87.3	87.3	80.0	80.0	73.8	73.8	72.0	72.0
78.0	147.7	147.7	126.6	126.6	110.8	110.8	98.5	98.5	88.6	88.6	80.6	80.6	73.8	73.8	68.2	68.2	66.5	66.5
80.0	144.0	144.0	123.4	123.4	108.0	108.0	96.0	96.0	86.4	86.4	78.5	78.5	72.0	72.0	66.5	66.5	64.8	64.8
84.0	137.1	137.1	117.6	117.6	102.9	102.9	91.4	91.4	82.3	82.3	74.8	74.8	68.6	68.6	63.3	63.3	61.7	61.7
90.0	128.0	128.0	109.7	109.7	96.0	96.0	85.3	85.3	76.8	76.8	69.8	69.8	64.0	64.0	59.1	59.1	57.6	57.6
96.0	120.0	120.0	102.9	102.9	90.0	90.0	80.0	80.0	72.0	72.0	65.5	65.5	60.0	60.0	55.4	55.4	54.0	54.0
102.0	100.0	100.0	85.8	85.8	75.0	75.0	66.7	66.7	60.0	60.0	54.6	54.6	50.0	50.0	46.2	46.2	45.0	45.0
108.0	84.3	84.3	72.2	72.2	63.2	63.2	56.2	56.2	50.6	50.6	46.0	46.0	42.1	42.1	38.9	38.9	37.9	37.9
114.0	71.7	71.7	61.4	61.4	53.7	53.7	47.8	47.8	43.0	43.0	39.1	39.1	35.8	35.8	33.1	33.1	32.2	32.2
120.0	61.4	61.4	54.7	54.7	46.1	46.1	41.0	41.0	36.9	36.9	33.5	33.5	30.7	30.7	28.4	28.4	27.6	27.6

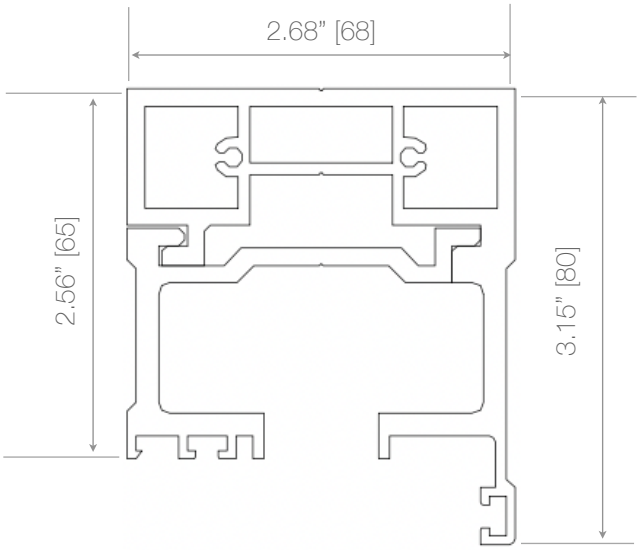
* Derived from maximum design pressure per comparision. Tested Panel Sizes: 36.0 in x 96.0 in (width x height).

• Refer to the official test reports for verification of all information herein.

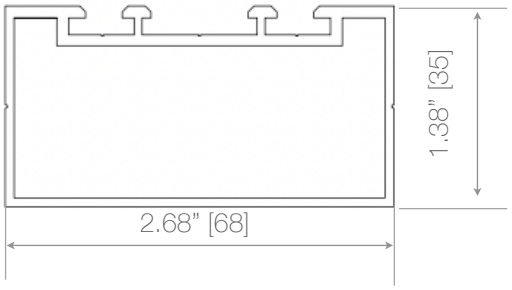
* Standards used for testing: TAS 202.

Tracks and Frames

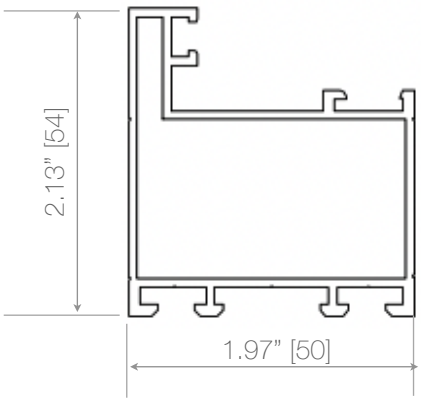
Track Type 13 - HD Track (0 AZON (Top)/ 0 AZON (Bottom))



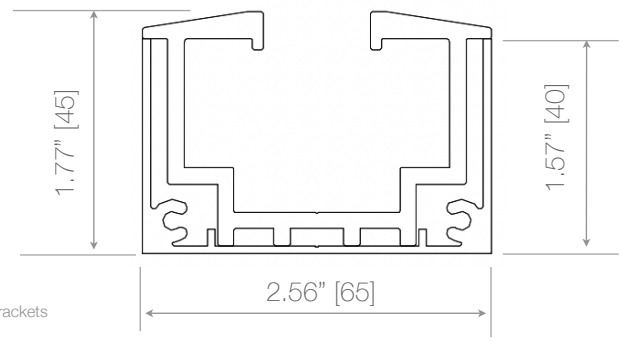
Top Track



Side Frame



Door Frame



Bottom Track

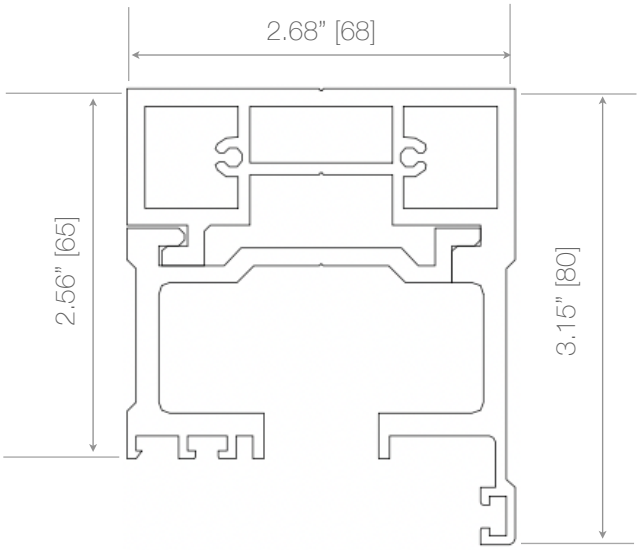
Weep holes installed by others as needed.

Note. Measurements in square brackets [ ] are expressed in millimeters.

Also available for FoldA Aesthetic.

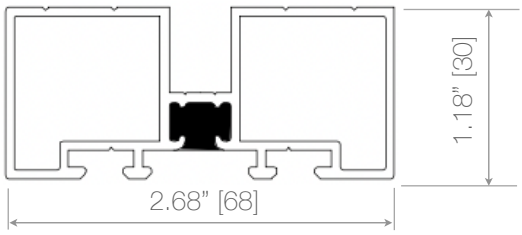
Tracks and Frames

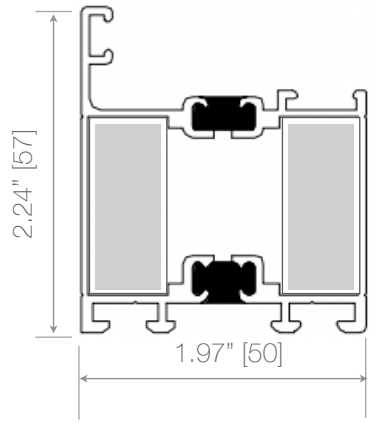
Track Type 14 - HD Track (0 AZON (Top)/ 1 AZON (Bottom))



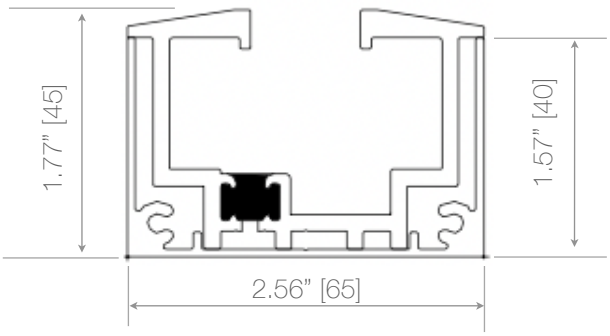
Top Track

Side Frame





Door Frame



Bottom Track

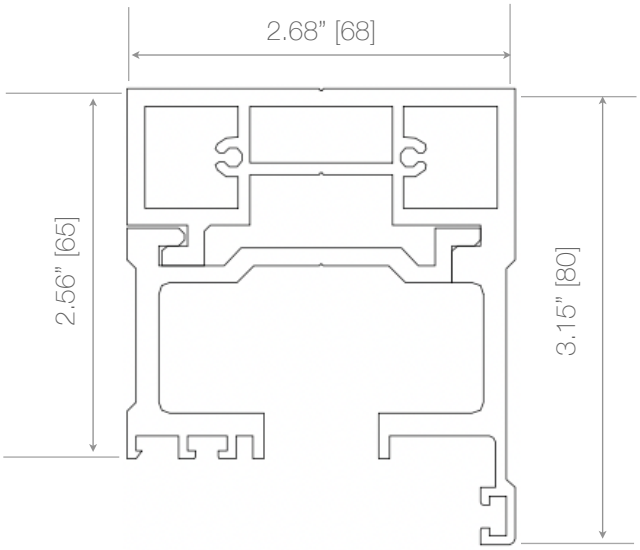
Weep holes installed by others as needed.

Also available for FoldA Aesthetic.

Note. Measurements in square brackets [ ] are expressed in millimeters.

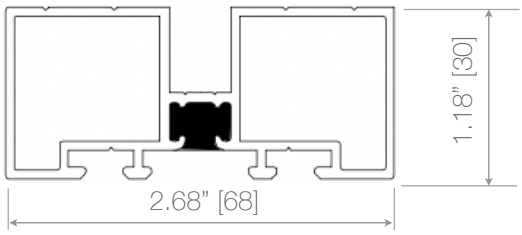
Tracks and Frames

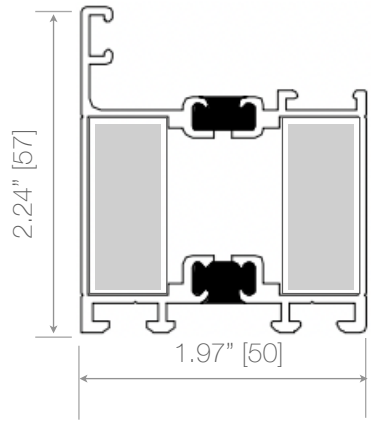
Track Type 15 - HD Track (0 AZON (Top)/ 2 AZONs (Bottom))



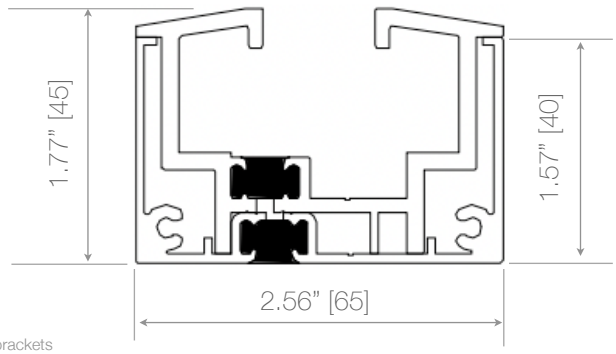
Top Track

Side Frame





Door Frame

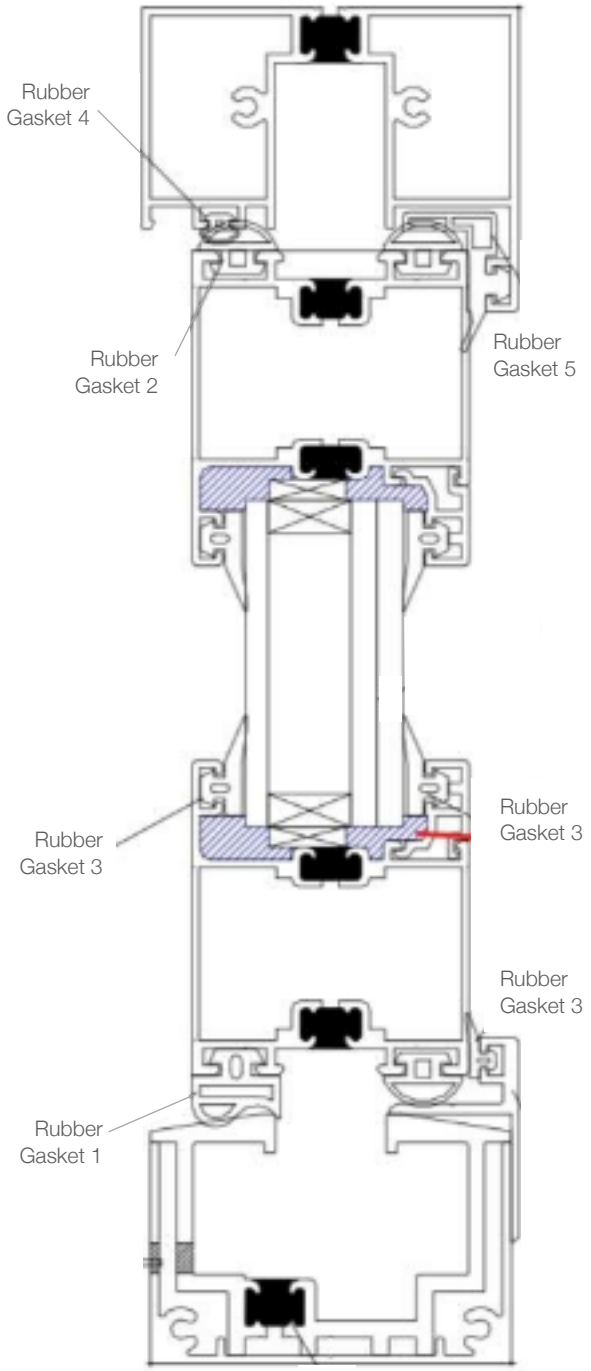


Bottom Track

Weep holes installed by others as needed.

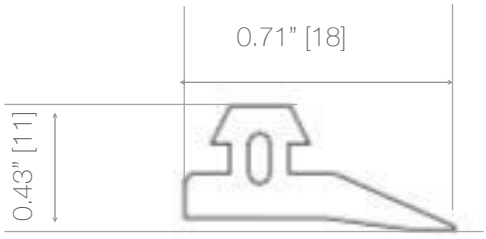
Note. Measurements in square brackets [ ] are expressed in millimeters.

Extreme Weather Seals

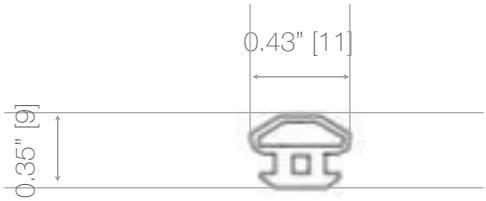


Rubber Gasket 1
(Taeguk pattern)

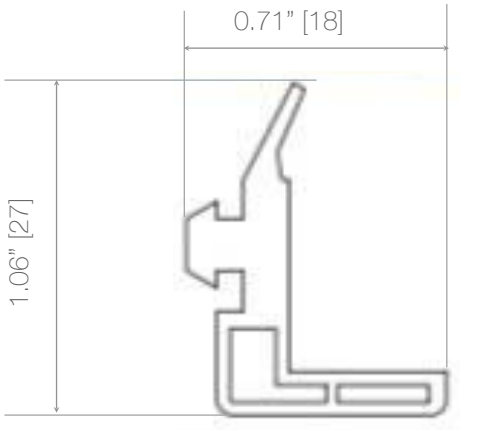
Rubber Gasket 2



Rubber Gasket 3



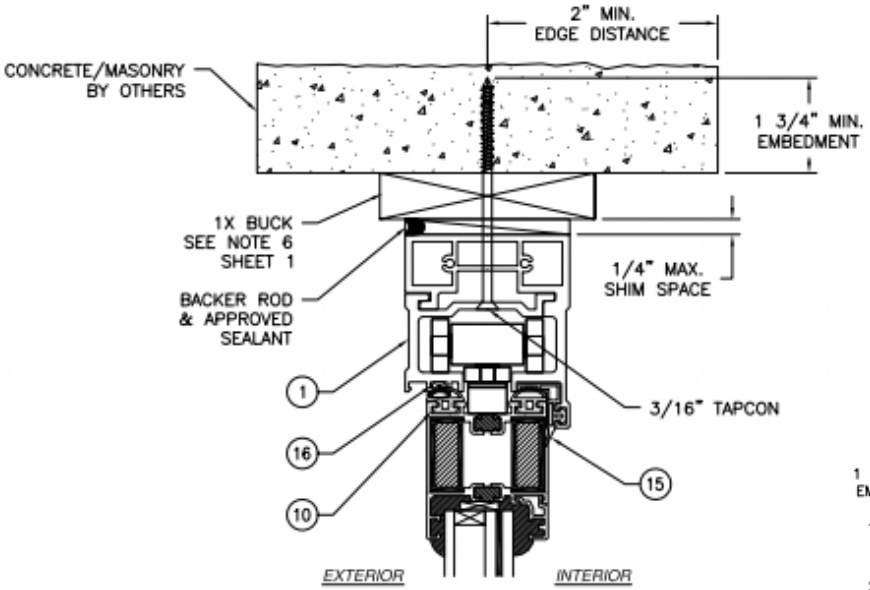
Rubber Gasket 4

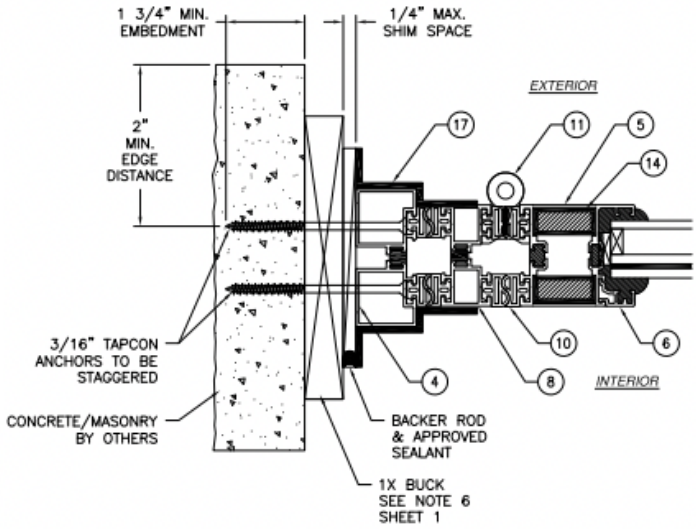


Rubber Gasket 5

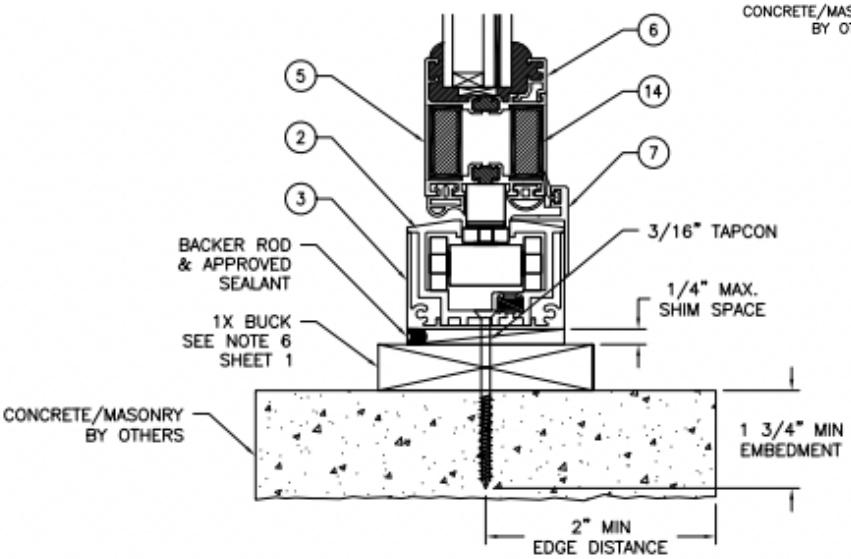
Note. Measurements in square brackets
[ ] are expressed in millimeters.

Typical Installation - Concrete





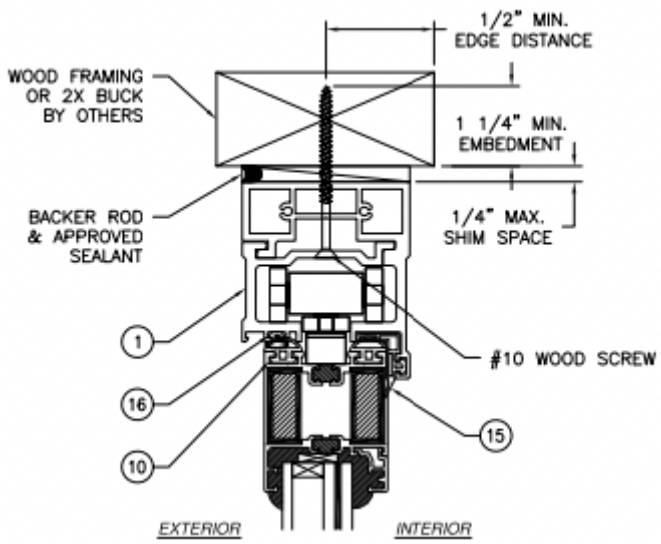
JAMB INSTALLATION DETAIL
CONCRETE/MASONRY W/1X BUCK INSTALLATION

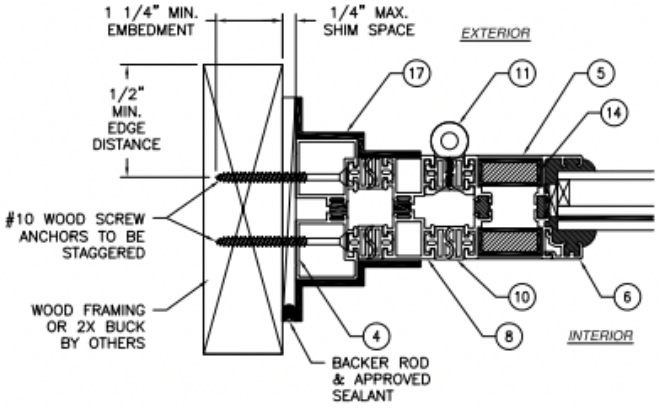


VERTICAL CROSS SECTION
CONCRETE/MASONRY W/1X BUCK INSTALLATION

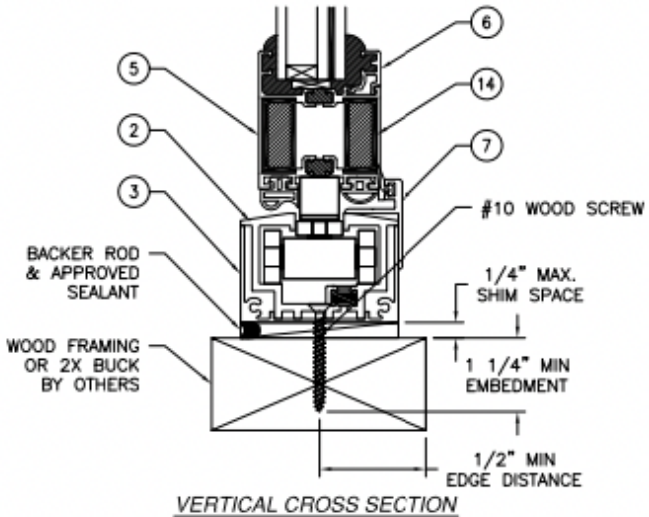
- Refer to the official test reports and the State of Florida's website for verification of all information herein.

Typical Installation - Wood





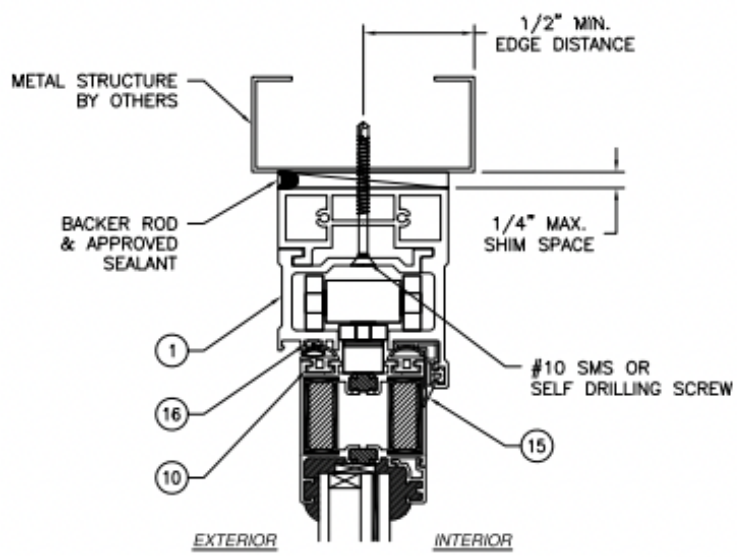
JAMB INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION

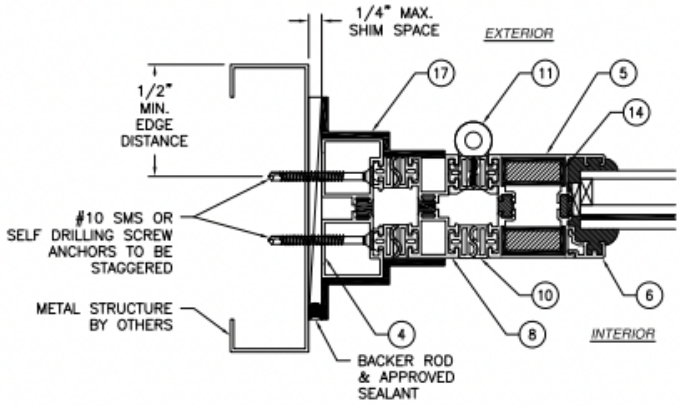


VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK INSTALLATION

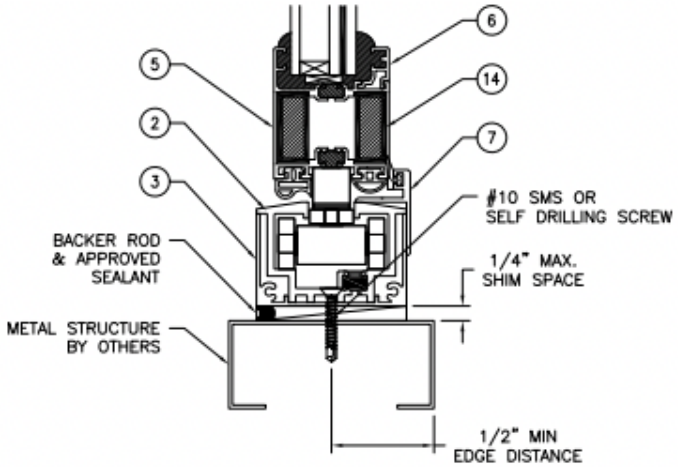
- Refer to the official test reports and the State of Florida's website for verification of all information herein.

Typical Installation - Metal





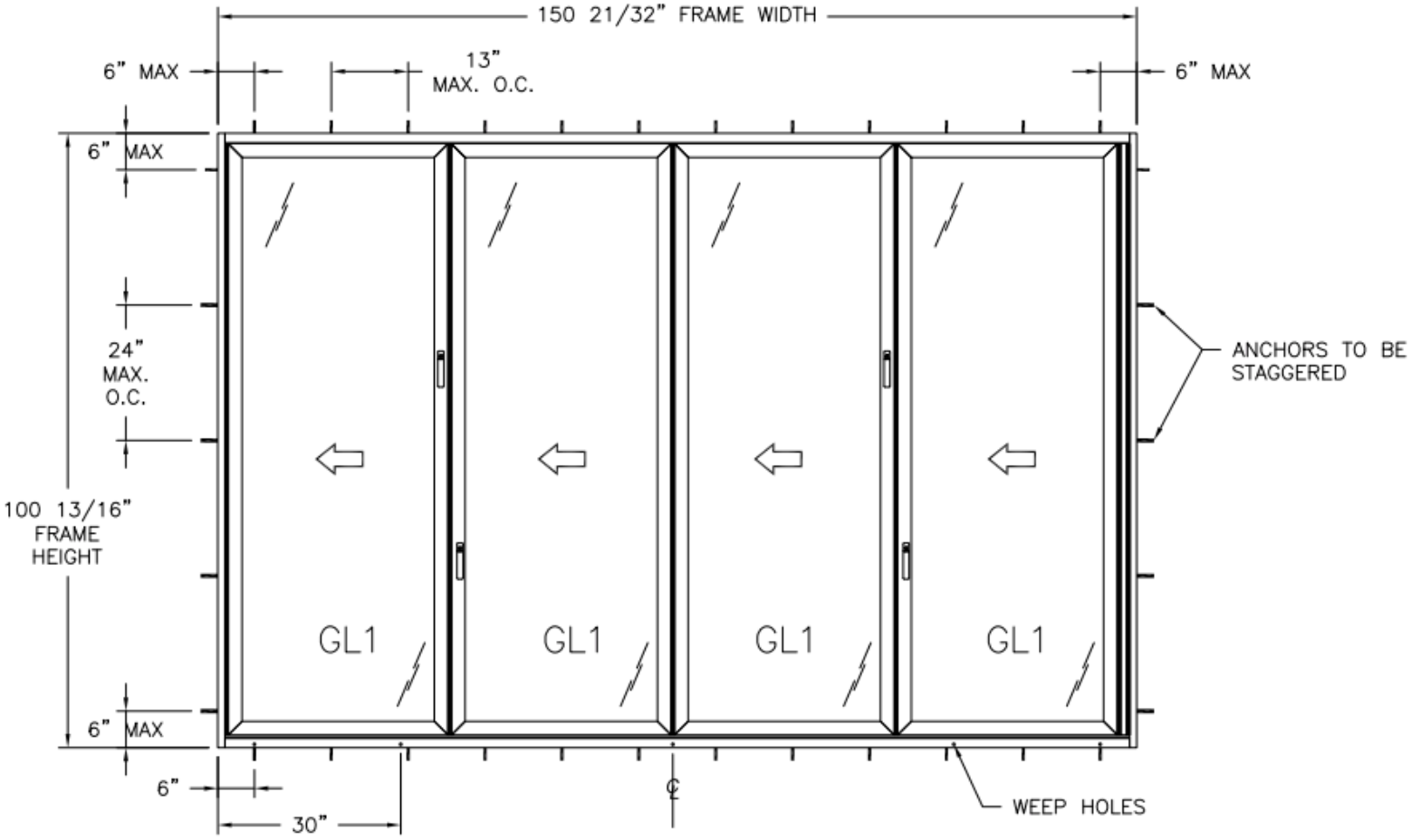
JAMB INSTALLATION DETAIL
METAL STRUCTURE INSTALLATION



VERTICAL CROSS SECTION
METAL STRUCTURE INSTALLATION

- Refer to the official test reports and the State of Florida's website for verification of all information herein.

Typical Anchoring Pattern Layout



- Refer to the official test reports and the State of Florida's website for verification of all information herein.

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