



Product Selection Guide

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Document Navigation Tips:

Items listed in the table of contents above are active links that will take you to the corresponding page.

The Pella logo on each page is a link back to this table of contents.

Bookmarks are also included in this PDF document and are available as an additional navigation option.

Supporting documents for this product:

Detailed Product Description (readable using Microsoft Word or other text editing application):

https://media.pella.com/professional/adm/Vinyl-HS-DS/PellaHurricaneShield_SlidingDoor.rtf

Size Tables (requires appropriate CAD software to read and use):

https://media.pella.com/professional/adm/Vinyl-HS-DS/CWS-HS-SPD_Elev_D.dwg

CAD cross sections (requires appropriate CAD software to read and use):

https://media.pella.com/professional/adm/Vinyl-HS-DS/CWS-8900-SPD_D.dwg

The information published in this document is believed to be accurate at the time of publication. However, because we are constantly working to improve our products, specifications are subject to change without notice. Consult your local Pella representative for up-to-date product information.

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Hurricane Shield Series Sliding Patio Door

Size and Performance Data

Sizes	
Standard Sizes ₁	S
Special Sizes Available Built on 1/8" Increments	O
Frames	
Nail Fin - 1-3/8" setback for 4-9/16" Wall Depth	S
Block Frame - 6" Frame Depth	S
Non-Impact Performance	
Meets or Exceeds AAMA/WDMA/HVHZ Ratings	LC 60
Air Infiltration ₃ (cfm/ft ² of frame @ 1.57 psf wind pressure)	0.14
Design Pressure	≤0.30
Water Resistance	9 psf
Forced Entry ₄	10
Maximum Operating Force (lb) (Initiate Motion / Maintain Motion)	25/13
Impact Performance	
Meets or Exceeds AAMA/WDMA/HVHZ Ratings	R 55 - LC 60
Air Infiltration ₃ (cfm/ft ² of frame @ 1.57 psf wind pressure)	≤0.30
Design Pressure	55 - 60
Water Resistance	9 - 12 psf
Forced Entry ₄	10
Maximum Operating Force (lb) (Initiate Motion / Maintain Motion)	25/13

S = Standard; O = Optional; (–)

(1) See size charts in this section for available sizes.

(2) Published performance data is for single unit only. Pella® Hurricane Shield™ Series Sliding Patio Doors do not have mulling capabilities. All products must be installed in separate openings.

(3) Published performance Data for air infiltration is determined by testing a minimum of four (4) products of NFRC model size. Testing is conducted in accordance with ASTM E283. Air infiltration ratings for products will differ by size. The performance data does not apply to combination assemblies unless notes. Actual product performance may vary for a number of reasons including installation and product care.

(4) The higher the level, the greater the product's ability to resist forced entry.

Performance with additional options may not be the same as Standard and Special size units. Please contact your local Pella representative for complete information.



Hurricane Shield Series Sliding Patio Door

Features and Options

Glazing	
Glazing Type	
Dual-pane insulating glass	S
Insulated Glass Options / Low-E Types	
Advanced Low-E	O
Coastal Low-E	O
SunDefense™ Low-E	O
Glass Configuration	
Standard Insulating Glass	S
Non-Impact Laminated Glass	O
Impact Laminated Glass	O
Additional Glazing Options	
Tempered Glass	S
Obscure Glass ¹	O
Neat Glass	O
Bronze Tint	O
Gray Tint	O
Blue Tint	O
Gas Fill / High Altitude	
Argon	S
Interior/Exterior Color	
White Interior/White Exterior	S

Grilles-Between-the-Glass	
Grille Profiles	
3/4" Contour	O
1" Contour	O
5/8" Flat	O
Grille Patterns	
Traditional	O
9-Lite Prairie	O
6-Lite Prairie	O
Custom – Equally Divided	O
Exterior Applied Grilles with Grilles-Between-the-Glass	
Grille Profiles	
7/8" Contour Applied with 1" Contour GBG	O
Grille Patterns	
Traditional	O
9-Lite Prairie	O
6-Lite Prairie	O
Custom - Equally Divided	O
Screen	
No Screen	O
InView™ Sliding Screen	S
Door Handle Finishes	
Color matched to frame	S
Keyed Lock	S
Additional Hardware	
Secondary Lock	O
Standard Roller	S
Premium Roller	O

S = Standard; O = Optional

(1) Contact your local Pella sales representative for current offering.



Hurricane Shield Series Sliding Patio Door

Glazing Performance - Total Unit

Glass Thickness	Type of Glazing	NFRC Certified Product #	Glass (mm)		Gap Fill	Performance Values ¹				Shaded Areas Meet ENERGY STAR® Performance Criteria in Zones Shown						
			Ext. (mm)	Int. (mm)		U-Factor	SHGC	VLT	CR	U. S.				Canada ²		
										Zone	N	NC	SC	S	ER	Zone
Vent - Sliding Patio Door - Low-E Glazing											N	NC	SC	S	CA	
1"	SunDefense™ Low-E IG	K-267	4.7625	4.7625	Argon	.31-.34	.20-.21	0.47	54-57							
	with Grilles-Between-the-Glass					.31-.34	.16-.18	.35-.41	54-57							
1"	SunDefense™ Low-E IG - Impact Laminated	K-267	4.7625	7.9375	Argon	.32-.36	0.21	0.45	49-53							
	with Grilles-Between-the-Glass					.34-.39	.16-.19	.34-.39	49-53							
1"	SunDefense™ Low-E IG - Impact Laminated	K-267	4.7625	11.1125	Argon	.32-.37	0.21	.45-.46	49-56							
	with Grilles-Between-the-Glass					.34-.40	.16-.19	.34-.40	49-56							
1"	Advanced Low-E IG	K-267	4.7625	4.7625	Argon	.31-.35	0.27	0.5	53-57							
	with Grilles-Between-the-Glass					.31-.35	.21-.24	.38-.44	53-57							
1"	Advanced Low-E IG - Impact Laminated	K-267	3.175	7.9375	Argon	.31-.34	0.27	0.5	54-57							
	with Grilles-Between-the-Glass					.31-.34	.21-.24	.38-.44	54-57							
1"	Advanced Low-E IG - Impact Laminated	K-267	4.7625	7.9375	Argon	.32-.37	0.27	0.48	48-52							
	with Grilles-Between-the-Glass					.34-.40	.21-.24	.36-.42	48-52							
1"	Advanced Low-E IG - Impact Laminated	K-267	4.7625	11.1125	Argon	.32-.37	0.27	.48-.49	48-56							
	with Grilles-Between-the-Glass					.34-.40	.21-.24	.36-.43	48-56							
1"	Coastal Low-E IG	K-267	4.7625	4.7625	Argon	.31-.35	0.14	0.28	53-57							
	with Grilles-Between-the-Glass					.31-.35	.11-.13	.21-.24	53-57							
1"	Coastal Low-E IG - Impact Laminated	K-267	4.7625	7.9375	Argon	.32-.37	.14-.15	0.27	48-53							
	with Grilles-Between-the-Glass					.34-.39	.11-.13	.20-.23	49-53							
1"	Coastal Low-E IG - Impact Laminated	K-267	4.7625	11.1125	Argon	.32-.37	.14-.15	0.27	48-56							
	with Grilles-Between-the-Glass					.34-.40	.11-.13	.20-.24	49-56							

R-Value = 1/U-Factor
SHGC = Solar Heat Gain Coefficient
VLT % = Visible Light Transmission
CR = Condensation Resistance
ER = Canadian Energy Rating

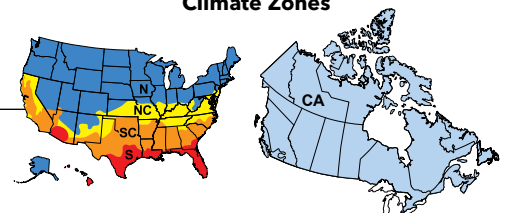
(1) Glazing performance values are calculated based on NFRC 100, NFRC 200 and NFRC 500. ENERGY STAR® values are updated to 2016 (Version 6) criteria.

(2) The values shown are based on Canada's updated ENERGY STAR® 2020 initiative.

Based on unit size, some products will have improved glazing performance from what is shown.

See the Product Performance section for more detailed information or visit www.energystar.gov for Energy Star guidelines.

Climate Zones





Hurricane Shield Series Sliding Patio Door

Glazing Performance - Total Unit

Glass Thickness	Type of Glazing	NFRC Certified Product #	Glass (mm)		Gap Fill	Performance Values ¹				Shaded Areas Meet ENERGY STAR® Performance Criteria in Zones Shown					
			Ext. (mm)	Int. (mm)		U-Factor	SHGC	VLT	CR	U. S.				Canada ²	
										Zone				ER	Zone
Vent - Sliding Patio Door - Tinted Glazing										N	NC	SC	S	CA	
1"	Bronze IG	K-267	4.7625	4.7625	Argon	.45-.47	.40-.41	0.39	43-45						
	with Grilles-Between-the-Glass					.45-.47	.31-.36	.29-.34	43-45						
1"	Bronze IG - Impact Laminated	K-267	4.7625	7.9375	Argon	.45-.48	.38-.39	0.37	42-45						
	with Grilles-Between-the-Glass					.46-.50	.29-.34	.28-.32	42-45						
1"	Bronze IG - Impact Laminated	K-267	4.7625	11.1125	Argon	.45-.48	.38-.39	.37-.38	42-45						
	with Grilles-Between-the-Glass					.46-.50	.29-.34	.28-.33	42-45						
1"	Gray IG	K-267	4.7625	4.7625	Argon	.45-.47	.37-.38	0.33	43-45						
	with Grilles-Between-the-Glass					.45-.47	.29-.34	.25-.29	43-45						
1"	Gray IG - Impact Laminated	K-267	4.7625	7.9375	Argon	.45-.48	.35-.36	0.32	42-45						
	with Grilles-Between-the-Glass					.46-.50	.27-.32	.24-.28	42-45						
1"	Gray IG - Impact Laminated	K-267	4.7625	11.1125	Argon	.45-.48	.35-.36	.32-.33	42-45						
	with Grilles-Between-the-Glass					.46-.50	.27-.32	.24-.28	42-45						
1"	Blue IG	K-267	6.35	6.35	Argon	0.47	0.32	0.46	N/A						
1"	Blue IG	K-267	4.7625	4.7625	Argon	0.47	0.32	0.46	N/A						
1"	Blue IG	K-267	4.7625	11.1125	Argon	0.47	.32-.59	.46-.63	N/A						

R-Value = 1/U-Factor
 SHGC = Solar Heat Gain Coefficient
 VLT % = Visible Light Transmission
 CR = Condensation Resistance
 ER = Canadian Energy Rating

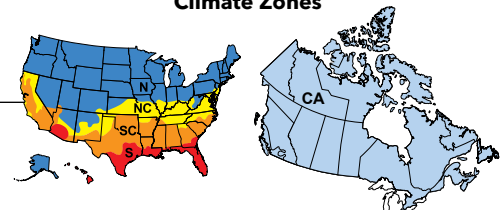
(1) Glazing performance values are calculated based on NFRC 100, NFRC 200 and NFRC 500. ENERGY STAR® values are updated to 2016 (Version 6) criteria.

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Based on unit size, some products will have improved glazing performance from what is shown.

See the Product Performance section for more detailed information or visit www.energystar.gov for Energy Star guidelines.

Climate Zones

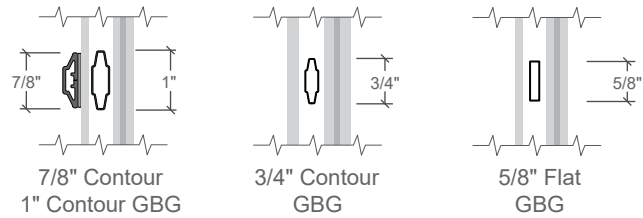




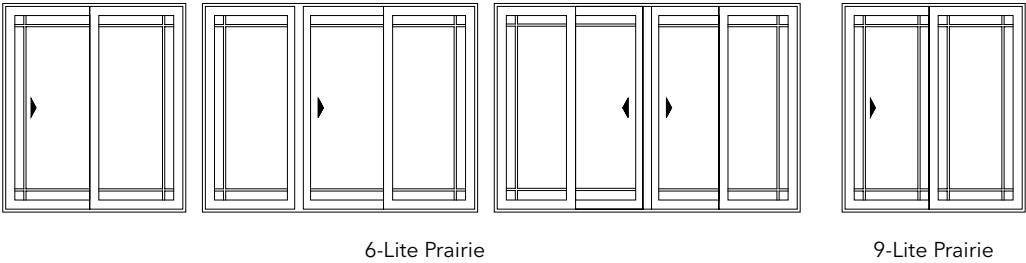
Grilles

Grille Profiles

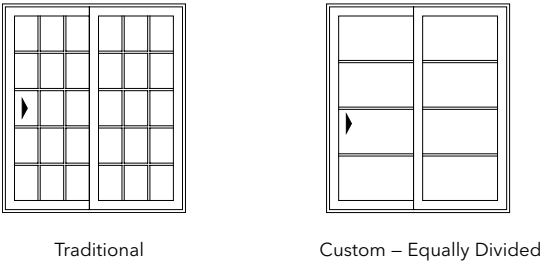
Grilles-Between-the-Glass



Grille Patterns



- 6-Lite Prairie**
- Approximately 6" from edge of panel to center of bar.
- 9-Lite Prairie**
- Approximately 6" from edge of panel to center of bar.



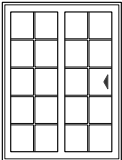
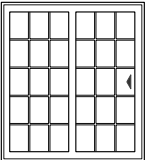
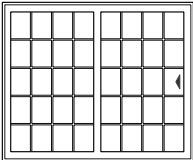
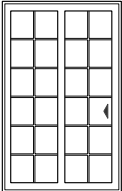
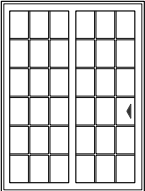
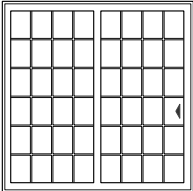
- Traditional**
- Specify number of lites in each panel—wide and high.
 - Grille bars must be equally divided on visible glass.
 - Minimum 6" x 6" center-to-center.

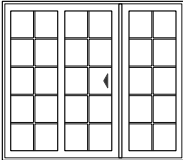
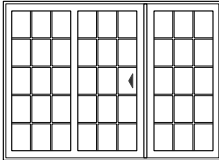
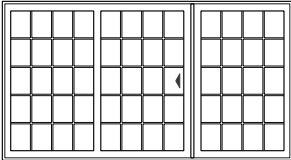
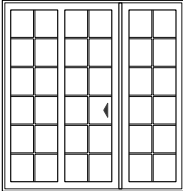
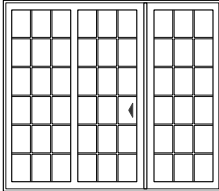
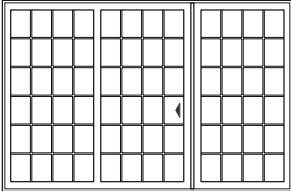
For traditional patterns, see size tables.



Hurricane Shield Series Sliding Patio Door

Size Tables

2-Panel (XO 1)		(1 518) (1 505)	(1 822) (1 810)	(2 432) (2 419)
Opening		5' 0"	6' 0"	8' 0"
Frame		59" 1/2"	71 1/2"	95 1/2"
6' 8"	(2 032)			
	(2 019)			
8' 0"	(2 438)			
	(2 426)			
				
				

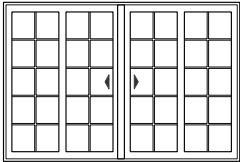
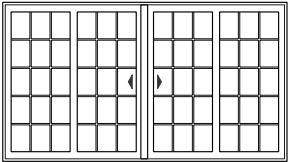
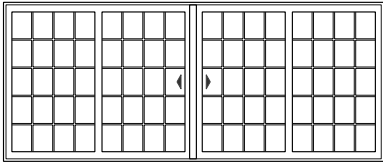
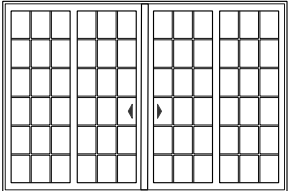
3-Panel (OXO)		(2 324) (2 311)	(2 781) (2 769)	(3 696) (3 683)
Opening		7' 7 1/2"	9' 1 1/2"	12' 1 1/2"
Frame		91"	109"	145"
6' 8"	(2 032)			
	(2 019)			
8' 0"	(2 438)			
	(2 426)			
				
				

(1) "X" indicates venting or sliding panel and "O" indicates fixed panel as viewed from the exterior. Doors shown as XO are also available as OX.



Hurricane Shield Series Sliding Patio Door

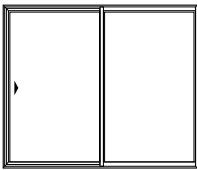
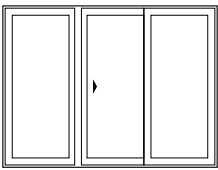
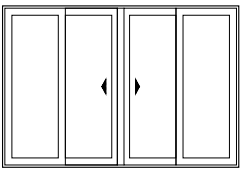
Size Tables

4-Panel (OXXO)		(3 013) (3 000)	(3 623) (3 610)	(4 842) (4 829)
Opening		9' 10 5/8"	11' 10 5/8"	15' 10 5/8"
Frame		118 1/8"	142 1/8"	190 1/8"
6' 8"	(2 032)			
	79 1/2"			
8' 0"	(2 438)			
	95 1/2"			
		9-9/6-8	11-9/6-8	15-9/6-8
		9-9/8-0	11-9/8-0	15-9/8-0



Hurricane Shield Series Sliding Patio Door

Special Size and Dimensions

Doors		
		
MINIMUM 59-1/2" W x 79-1/2" H (1 181 x 1 791)	MINIMUM 91" W x 79-1/2" H (1 816 x 1 791)	MINIMUM 118-1/8" W x 79-1/2" H (2 426 x 1 791)
MAXIMUM 95-1/2" W x 95-1/2" H (2 426 x 2 540)	MAXIMUM 145-1/8" W x 95-1/2" H (3 645 x 2 540)	MAXIMUM 190-1/8" W x 95-1/2" H (3 645 x 2 540)

General Notes:

- Special sizes are available within the parameters shown on 1/8" increments.
- FH = RO - 0.5"; FW = RO - 0.5"

Miscellaneous Formulas

Panel	Panel Height = FH - 2.5" XO / OX Panel Width = FW÷2 + 0.875" OXO Panel Width = FW÷3 + 0.271" OXXO Panel Width = FW÷4 + 1.094
Actual Glass	Glass Height = FH - 8" XO / OX Glass Width = FW÷2 - 4.625" OXO Glass Width = FW÷3 - 5.229" OXXO Glass Width = FW÷4 - 4.406"
Visible Glass	VG Height = FH - 9.631" XO / OX VG Width = FW÷2 - 6.256" OXO VG Width = FW÷3 - 6.861" OXXO VG Width = FW÷4 - 6.038"

To convert areas to square meters (m²), multiply square feet by 0.0929.



Hurricane Shield Series Sliding Patio Door

Detailed Product Description

Frame

- Overall frame depth: 6".
- Frame members are mitered and [heat fused, fully welded] or [knock-down].* Sill is fitted with weeps.
- Frame: [1-3/8" setback nail fin for 4-5/8" wall depth][Block frame 6" wall depth].
- Interior and exterior frame surfaces are extruded rigid PVC.

Door panels

- Door Panel consists of extruded rigid PVC.
- Panel members are mitered and heat-fused to provide a fully welded corner assembly.
- Vent panel is fully operable for ventilation.
- Vent panels have two adjustable rollers, set on a stainless steel track cap.
- Contains sealed insulating glass.

Weatherstripping

- Fin-type pile around perimeter of panels.

Glazing System

- Quality fully-tempered float glass complying with ASTM C 1036.
- Exterior face-glazed sealed insulating glass.
- Dual-Pane insulating glass with argon [Advanced Low-E coated Coastal Low E [SunDefense™ Low-E coated [Neat, SunDefense], [Obscure, SunDefense] [Obscure₂] [Bronze] [Gray] [Blue].

Interior / Exterior

- Frame and panel members are White with integral color extruded throughout the profiles, consisting of a solar reflective coating exceeding AAMA 613 test requirements.
- All exposed PVC surfaces are smooth, glossy and uniform in appearance.

Hardware

- Interior handle and thumblock; finish is [White].
- Exterior handle finish Matches exterior finish.
- Keylock with K-keyway cylinder. Finish is [Chrome].
- All fasteners are a corrosion-resistant material compatible with PVC.
- Multi-point lock, [stainless steel].
- Door rollers are adjustable, permanently-sealed, [corrosion resistant stainless steel, ball bearing rollers].

Screen

- InView Full-size Fiberglass sliding screen with black vinyl coated 18/14 mesh fiberglass screen cloth complying with ASTM D 3656 and SMA 1201 set in an extruded aluminum frame.
- Supplied with four self-adjustable rollers, latch and latch handle.
- Frame of screen matches exterior frame color.

Optional Products

Grilles

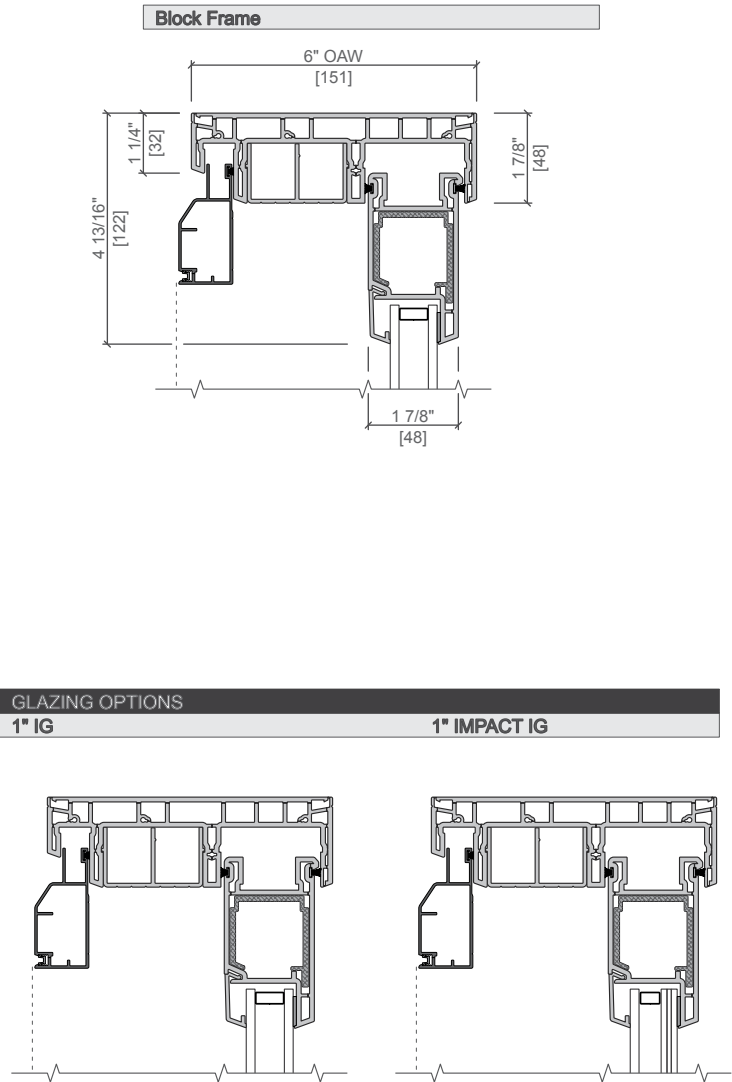
- Grilles-Between-the-Glass
 - Insulating glass contains [3/4"] [1"] contoured or 5/8" flat aluminum grilles permanently installed between two panes of glass.
 - Patterns are [Traditional] [6-Lite Prairie] [9-Lite Prairie] [Custom-Equally Divided].
 - Interior grille color matches interior frame.
 - Exterior grille color matches exterior frame.

*Knock-down frames required on units with a frame width greater than 8 ft.



Hurricane Shield Series Sliding Patio Door

Unit Sections

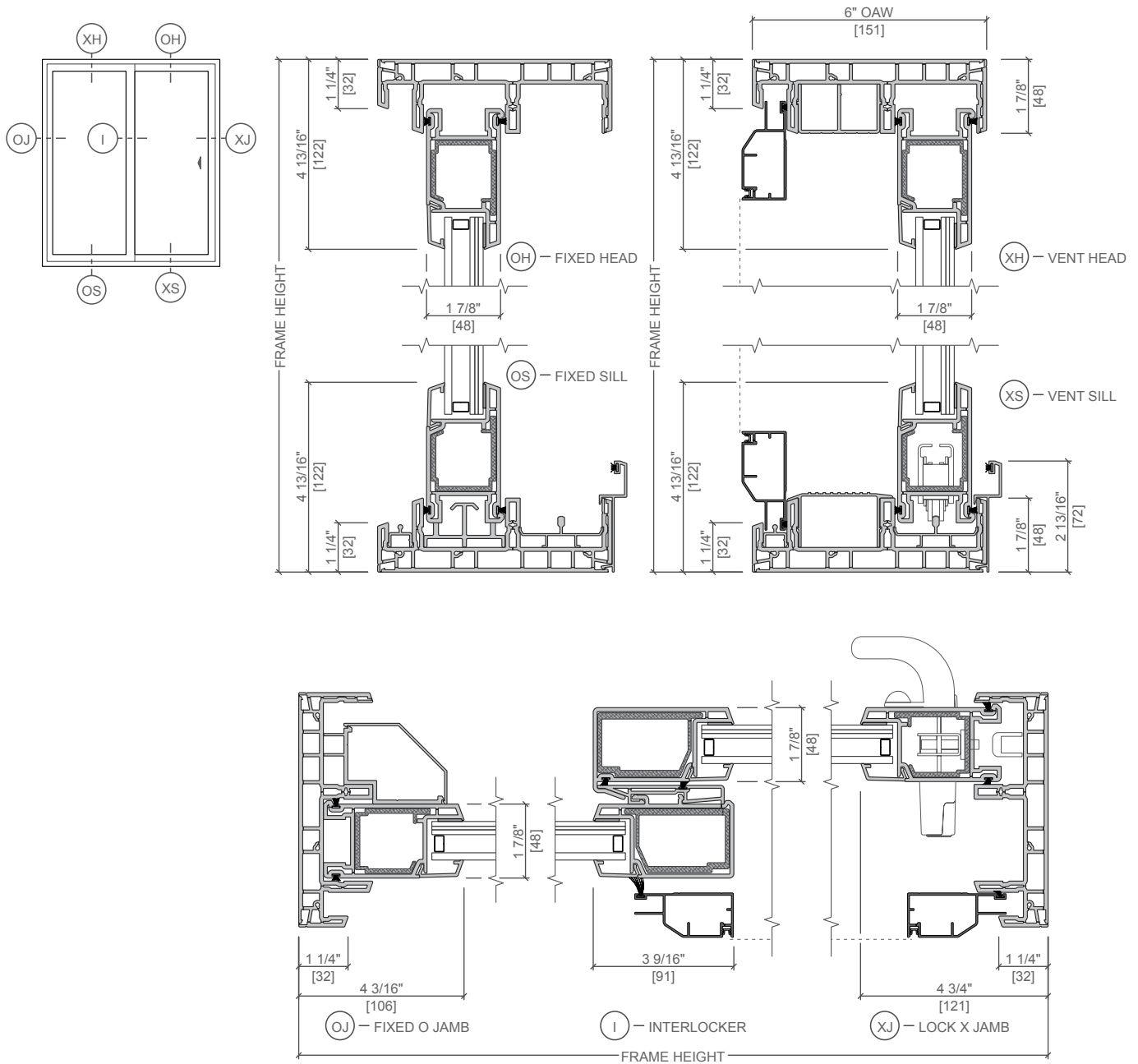


Scale 3" = 1' 0"
Combinations require reinforcing mullions between units.
All dimensions are approximate.



Hurricane Shield Series Sliding Patio Door

Unit Sections - Block Frame with Impact-Resistant Glazing



Also available for 3- and 4-panel doors.

