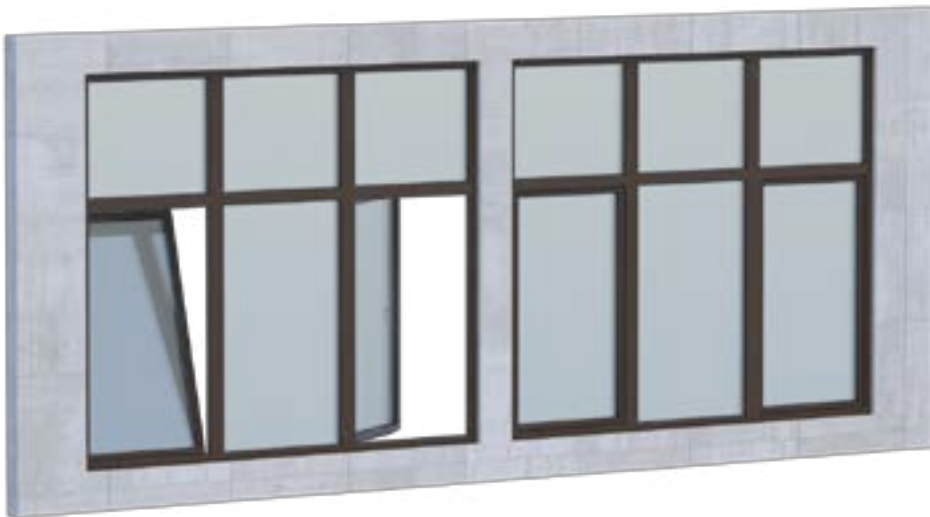


**THE INDUSTRY'S FIRST AND ONLY
OPERABLE VINYL SYSTEM WITH
AN AW-RATING**

MIKRON C3-11300™ AW-RATED WINDOW & DOOR SYSTEM

The Energy Standards Are Evolving, Shouldn't Your Windows and Doors?

The Mikron C3-11300™ AW-Rated system offers a high-thermal performance, design versatility and structural strength make the Mikron C3-11300™ AW-Rated system a great choice for new construction or replacement applications. The system has achieved the highest structural performance class, Architectural Window (AW), as governed by North American Fenestration Standard (NAFS) for use in mid- and high-rise buildings.



Available Styles:

- Tilt-&Turn
- Casement/Awning
- Fixed
- In- & Out-Swing Door
- Tilt-&Slide Door
- Multi-lite & Stacked units

The Mikron C3-11300™ AW-rated commercial window system provides the highest performance standards for mid- and high-rise commercial buildings with the flexibility to combine multiple configurations and meet unique application needs. With the ability to use multiple configurations on one project, this system evolves window-wall design by providing stronger, more energy-efficient windows with a streamlined appearance, creating a superior product that meets all commercial window needs.

Specify Thermal Performance, Design Versatility and Structural Strength

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MIKRON C3-11300™ AW-RATED SYSTEM

GET SUPERIOR PERFORMANCE WITH QUANEX'S INTEGRATED COMMERCIAL SOLUTIONS

STYLES: Available in a variety of configurations for both new construction and replacement projects, including tilt-and-turn, casement, awning, fixed window, in-swing and out-swing door, tilt-and-slide door, multi-lite and stacked units. The system is also available with a full range of standard and concealed hardware options from all major hardware suppliers.

FEATURES: Accommodates up to 1 $\frac{5}{8}$ " insulating glass unit to maximize thermal and acoustic performance. In triple-pane configurations the system achieves well below NFRC .20 U-factor with CR over 75. The Mikron C3-11300™ addresses the need for an optimal mix of strength, energy performance and aesthetics for commercial installations, while meeting all necessary requirements for AW ratings.

MIKRONBLEND® TEST- AND PERFORMANCE-PROVEN

All Quanex extrusions feature proprietary MikronBlend® vinyl compound. Formulated to withstand the toughest conditions and standards, it is tested tough and real-world proven for over 30 years. You will find windows with Quanex frames in the harshest field test environments: the hot, dry Arizona desert, Florida heat and humidity, and Midwest weather and temperature extremes.

Additionally, ASTM test procedures verify MikronBlend® Delta-E performance. Windows and doors featuring MikronBlend vinyl surpass strict industry measures for color fastness and UV degradation and won't chalk or appreciably fade, even after years of weather performance.

The system incorporates superior, patent-pending, SuperCapSR™ thermally-fused color technology, which absorbs less heat to prevent heat-related profile distortion even in darker colors. SuperCapSR is available in architectural bronze, adobe, black, and silver (replicating a clear anodized aluminum finish). Also available in white, adobe, or almond MikronBlend® vinyl compound. Custom options are available.

COLORS:

MikronBlend



white

adobe

almond

SuperCapSR



architectural
bronze

adobe

black

silver
(clear anodized
appearance)

**Printing limitations prevent exact color duplication. Contact your Quanex representative for color samples.*



Exceeds Tough Industry Standards:

- AAMA 613 for Color Retention
- AAMA 614 for Weathering
- AAMA 615 for Durability, testing to 12x harder than competitive paint coatings
- Tested and passed per ASTM: D3363, D4214, D2247, D4585, D714, D523, D4726, D3359, D4803 and D968.

AW-RATED PERFORMANCE: MID- TO HIGH-RISE CONSTRUCTION

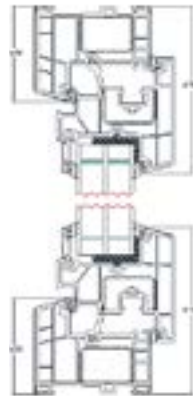
PRODUCT		PERFORMANCE								
Series	Window Type	Test Size	AAMA	Infil (CFM/ft ²)	Exfil (CFM/ft ²)	Water (PSF)	U-Factor	SHGC	VT	CR
11300	Tilt-and-Turn-Int. glazed	60" x 99"	AW-PG65	.05		15 lbs	0.17	0.16	0.31	75
11300	Tilt-and-Turn-Ext. glazed	60" x 99"	AW-PG70	.10	.06	12 lbs	0.16	0.16	0.31	78
11300	Casement-Int. glazed	36" x 60"	AW-PG90	.07	.10	15 lbs	0.19	0.09	0.17	79
11300	Casement-Ext. glazed	36" x 60"	AW-PG90	.04	.07	15 lbs	0.19	0.1	0.17	79
11300	Awning-Int. glazed	60" x 36"	AW-PG100	.09	.09	15 lbs	0.19	0.09	0.17	78
11300	Awning-Ext. glazed	60" x 36"	AW-PG100	.01	.05	15 lbs	0.19	0.1	0.17	78
11300	Fixed-Int. glazed	60" x 99"	AW-PG100	<.01		12 lbs	0.15	0.19	0.37	76
11300	Fixed-Ext. glazed	60" x 99"	AW-PG100	.03		15 lbs	0.15	0.19	0.37	80
11300	Hopper-Int. glazed	60" x 36"	AW-PG100	.03	.03	12 lbs				
Series	Door Type	Test Size	AAMA	Infil (CFM/ft ²)	Exfil (CFM/ft ²)	Water (PSF)	U-Factor	SHGC	VT	CR
11300	Inswing-Int. Glazed	48" x 96"	AW-PG50	.08	.05	12 lbs	0.17	0.13	0.25	76
11300	Inswing-Int. Glazed ADA	48" x 96"	AW-PG40	0.09	0.02	LW	0.17	0.13	0.25	76
11300	Inswing-Ext. Glazed	48" x 96"	AW-PG40	0.10	0.07	8	0.17	0.13	0.25	77
11300	Inswing-Ext. Glazed ADA	48" x 96"	AW-PG40	<.01	<.01	LW	0.17	0.13	0.25	77
11300	Outswing-Int. Glazed	48" x 96"	AW-PG40	0.05	0.08	15	0.17	0.13	0.25	76
11300	Outswing-Int. Glazed ADA	48" x 96"	AW-PG50	0.03	0.06	LW	0.17	0.13	0.25	76
11300	Outswing-Ext. Glazed	48" x 96"	AW-PG40	0.05	0.08	15	0.17	0.13	0.25	77
11300	Outswing-Ext. Glazed ADA	48" x 96"	AW-PG40	0.06	0.10	LW	0.17	0.13	0.25	77
Series	Combination Units	Test Size	AAMA	Infil (CFM/ft ²)	Exfil (CFM/ft ²)	Water (PSF)	U-Factor			
11300	Picture over Awning (Int Glazed)	48" x 120"	AW-PG70	0.05	0.09	15	0.19 or lower (Argon)			
11300	Picture over Hopper (Int Glazed)	48" x 120"	AW-PG80	0.03	0.01	12	0.19 or lower (Argon)			
11300	6-Lite (Interior Glazed)	144" x 117"	AW-PG40	0.05	<.01	10	0.19 or lower (Argon)			

Thermal testing was completed using the most challenging scenarios (interior and exterior glazed). All other units and types that were not tested are expected to perform the same or better than those listed. TNT and PW thermal performance based on computer simulation using 47" x 59" window size. AW thermal performance based on computer simulation using a 59" x 24" window size. CW thermal performance based on computer simulation using 24" x 59" window size. Swing Doors thermal performance based on computer simulation using 37-3/4" x 82-3/8" door size. Thermal performance testing/simulation sizes are standards set by the NFRC. Triple-glazed, high-performance glass package with Super Spacer® Premium spacer and superior thermal technology frame and sashes.

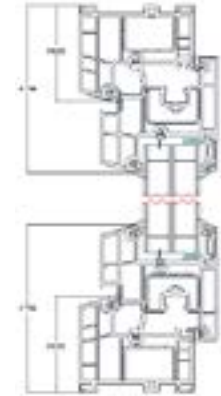
Standard Features on all Configurations:

- **COMPRESSION-SEAL WINDOW** design enhances protection against water intrusion and air infiltration
- **VINYL FRAMES RESIST CONDENSATION**, reducing risk of water damage to building interiors
- **FRAME AND SASH** hollow compartments allow for optimal reinforcement required in heavy commercial applications
- **FUSION WELDED CORNERS** provide environmental comfort and protect against leaks
- **MULTIPLE LOCKING POINTS** and triple weather seals provide superior air tightness
- **EASY TO OPERATE HARDWARE** delivers a wide opening for emergency egress and cleaning
- **T-BAR** for ease of mulling and stacking

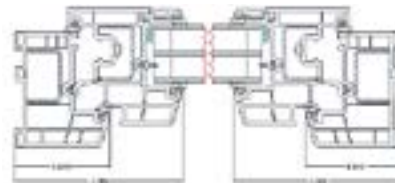
TILT-N-TURN (DUAL-ACTION) 3¼" FRAME DEPTH



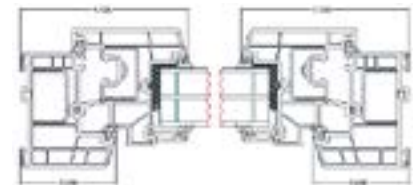
Exterior Glazed Window
Vertical Cross Section



Interior Glazed Window
Vertical Cross Section



Interior Glazed Window
Horizontal Cross Section



Exterior Glazed Window
Horizontal Cross Section

DISTINCTIVE ADVANTAGES

- 3-1/4" (83 MM) frame depth is ideal for new construction and replacement
- Accommodates up to 1-5/8" (42mm) insulating glass unit to maximize thermal efficiency and acoustic performance
- Interior and exterior glazing option for versatility
- Accommodates multiple reinforcing material options, for higher structural performance and thermal efficiencies
- .100" (2.5mm) main wall thickness; optimized for structural strength
- 9.3 sq. ft. daylight opening on a 3' x 5' window without sacrificing maximum thermal performance
- Fusion welded corners provide environmental comfort and protect against leaks
- Multi-chamber frame and sash profiles for added structural strength
- Engineered profile compartments allow for optimal foam-fill capabilities for higher thermal efficiency
- Integral interior and exterior perimeter accessory groove
- T-bar for mulling and stacking
- Continuous compression weather seal enhances protection against water intrusion
- Common frame on all four sides for ease of manufacture and labor savings
- Center seal to protect hardware
- Hardware allows the sash to tilt inward at the top for secure ventilation or turn inward providing a wide opening for emergency egress and cleaning
- Multiple locking points and triple weather-seals provide optimal air tightness

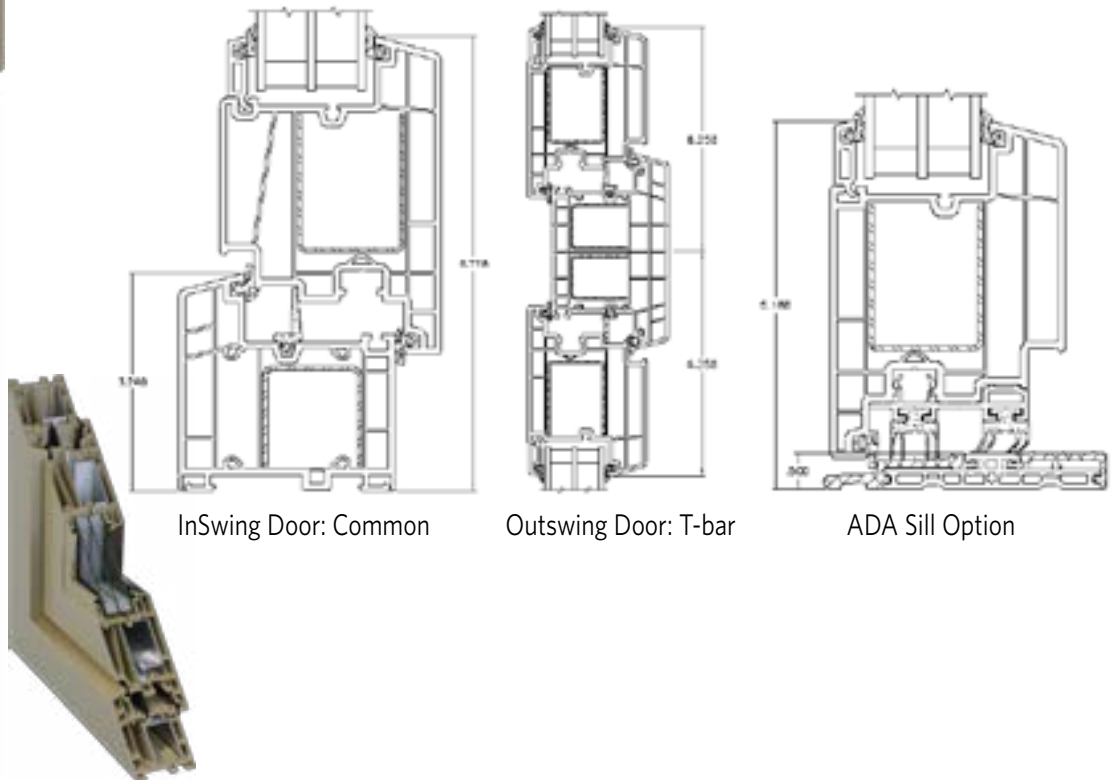
PRODUCT		STRUCTURAL AND THERMAL PERFORMANCE*								
Series	Window Type	Test Size	AAMA	Infil (CFM/ft ²)	Exfil (CFM/ft ²)	Water (PSF)	U-Factor	SHGC	VT	CR
11300	Tilt-and-Turn-Int. glazed	60" x 99"	AW-PG65	.05		15 lbs	0.17	0.16	0.31	75
11300	Tilt-and-Turn-Ext. glazed	60" x 99"	AW-PG70	.10	.06	12 lbs	0.16	0.16	0.31	78

PRODUCT		STC & OITC PERFORMANCE							
Series	Window Type	Test Size	Glass Configuration		Spacer Size	Argon	Lami	STC	OITC
11300	Tilt-and-Turn	47" x 59"	1" - (1/4" - 1/2" AS - 1/4")		1/2"	yes	no	33	28
11300	Tilt-and-Turn	47" x 59"	1-5/8" - (1/4" - .030" - 1/4" - 29/32" AS - 3/16")		29/32"	yes	.030	40	33
11300	Tilt-and-Turn	47" x 59"	1-5/8" - (1/8" - .030" - 1/8" - 1-5/23" AS - 3/16")		1-5/32"	yes	.030	37	29

*Thermal testing was completed using the most challenging scenarios (interior and exterior glazed). All other units and types that were not tested are expected to perform the same or better than those listed. TNT thermal performance based on computer simulation using a 47" x 59" window size. Thermal performance testing/simulation sizes are standards set by the NFRC. Triple-glazed, high-performance glass package with Super Spacer® Premium spacer and superior thermal technology frame and sashes.

SWING DOOR

3 1/4" FRAME WIDTH



DISTINCTIVE ADVANTAGES

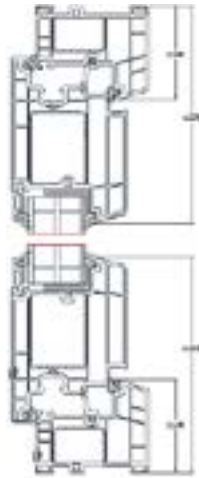
- 3-1/4" (83 MM) base frame width ideal for new construction and replacement
- Accommodates up to 1-5/8" (42mm) insulating glass unit to maximize thermal efficiency and acoustic performance
- Interior and exterior glazing option for versatility
- Large reinforcing cavities accommodate multiple reinforcing material options, for higher structural performance and thermal efficiencies
- .100" (2.5mm) main wall thickness; optimized for structural strength
- 20.1 sq. ft. daylight opening in a 48" x 96" door without sacrificing maximum thermal performance
- Integral interior and exterior perimeter accessory groove
- Fixed transom, fixed side-lites
- Concealed face mull grooves
- T-bar for mulling and stacking
- True ADA sill option
- Single & multi-panel ADA In-swing door
- Single & multi-panel ADA Out-swing door
- Fusion welded corners provide environmental comfort and protect against leaks
- Continuous compression weather seal on frame and sash
- Center seal to protect hardware
- Multiple locking points and triple weather seals provide superior air tightness
- Accepts standard hardware from all major suppliers: Roto, Siegenia, HTL & others

PRODUCT		PERFORMANCE								
Series	Door Type	Test Size	AAMA	Infil (CFM/ft ²)	Exfil (CFM/ft ²)	Water (PSF)	U-Factor	SHGC	VT	CR
11300	Inswing-Int. Glazed	48" x 96"	AW-PG50	.08	.05	12 lbs	0.17	0.13	0.25	76
11300	Inswing-Int. Glazed ADA	48" x 96"	AW-PG40	0.09	0.02	LW	0.17	0.13	0.25	76
11300	Inswing-Ext. Glazed	48" x 96"	AW-PG40	0.10	0.07	8	0.17	0.13	0.25	77
11300	Inswing-Ext. Glazed ADA	48" x 96"	AW-PG40	<.01	<.01	LW	0.17	0.13	0.25	77
11300	Outswing-Int. Glazed	48" x 96"	AW-PG40	0.05	0.08	15	0.17	0.13	0.25	76
11300	Outswing-Int. Glazed ADA	48" x 96"	AW-PG50	0.03	0.06	LW	0.17	0.13	0.25	76
11300	Outswing-Ext. Glazed	48" x 96"	AW-PG40	0.05	0.08	15	0.17	0.13	0.25	77
11300	Outswing-Ext. Glazed ADA	48" x 96"	AW-PG40	0.06	0.10	LW	0.17	0.13	0.25	77

Thermal testing was completed using the most challenging scenarios (interior and exterior glazed). All other units and types that were not tested are expected to perform the same or better than those listed. Swing Doors thermal performance based on computer simulation using a 37-3/4" x 82-3/8" door size. Thermal performance testing/simulation sizes are standards set by the NFRC. Triple-glazed, high-performance glass package with Super Spacer® Premium spacer and superior thermal technology frame and sashes.

CASEMENT/AWNING

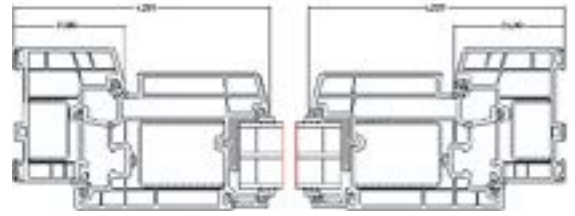
3 1/4" FRAME DEPTH



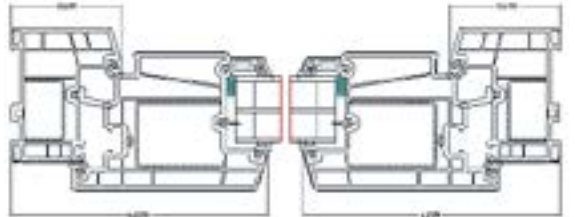
Exterior Glazed Window
Vertical Cross Section



Interior Glazed Window
Vertical Cross Section



Exterior Glazed Window - Horizontal Cross Section



Interior Glazed Window - Horizontal Cross Section

DISTINCTIVE ADVANTAGES

- 3-1/4" (83 MM) frame depth is ideal for new construction and replacement projects
- Accommodates up to 1-5/8" (42 MM) insulated glass unit to maximize thermal efficiency and acoustic performance
- Interior and exterior glazing option for versatility
- Accommodates multiple reinforcing material options, for higher structural performance and thermal efficiencies
- Frame internal webs are placed strategically for maximum structural support of glazing unit
- Total of 17 chambers in both frame and sash profiles engineered to increase structural strength
- .100" (2.5 MM) wall thickness in frame and sash members optimized for structural strength
- Integral interior and exterior perimeter accessory groove
- T-bar for mulling and stacking
- Center seal to protect hardware
- Continuous compression weather seal on frame and sash enhances protection against water intrusion and air infiltration
- Accepts standard multi-lock hardware
- Common frame on all four sides for ease of manufacture and labor savings
- Fusion welded corners provide environmental comfort and protect against leaks
- Multiple locking points and triple weather-seals provide superior air tightness
- Easy to operate hardware delivers a wide opening for emergency egress and cleaning

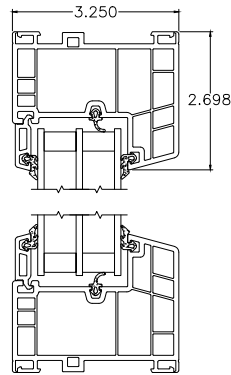
PRODUCT		PERFORMANCE								
Series	Window Type	Test Size	AAMA	Infil (CFM/ft ²)	Exfil (CFM/ft ²)	Water (PSF)	U-Factor	SHGC	VT	CR
11300	Casement-Int. glazed	36" x 60"	AW-PG90	.07	.10	15 lbs	0.19	0.09	0.17	79
11300	Casement-Ext. glazed	36" x 60"	AW-PG90	.04	.07	15 lbs	0.19	0.1	0.17	79
11300	Awning-Int. glazed	60" x 36"	AW-PG100	.09	.09	15 lbs	0.19	0.09	0.17	78
11300	Awning-Ext. glazed	60" x 36"	AW-PG100	.01	.05	15 lbs	0.19	0.1	0.17	78

CW thermal performance based on computer simulation using a 24" x 59" window size. Swing Doors thermal performance based on computer simulation using a 37-3/4" x 82-3/8" door size.

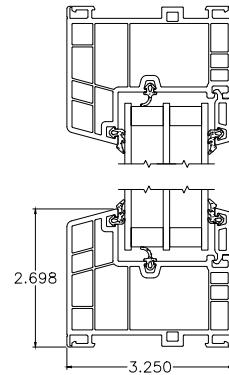
Thermal performance testing/simulation sizes are standards set by the NFRC. Triple-glazed, high-performance glass package with Super Spacer® Premium spacer and superior thermal technology frame and sashes.

FIXED WINDOW

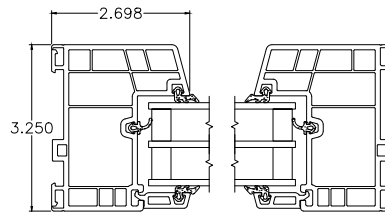
3 1/4" FRAME DEPTH



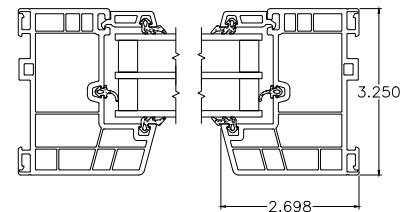
Exterior Glazed Window
Vertical Cross Section



Interior Glazed Window
Vertical Cross Section



Interior Glazed Window -
Horizontal Cross Section



Exterior Glazed Window -
Horizontal Cross Section

DISTINCTIVE ADVANTAGES

- 3-1/4" (83 MM) frame depth is ideal for new construction and replacement projects
- Accommodates up to 1-5/8" (42 MM) insulated glass unit to maximize thermal efficiency and acoustic performance to help improve occupant comfort
- Interior and exterior glazing option for versatility
- .100" (2.5 MM) main wall thickness is optimized for structural strength
- Accommodates multiple reinforcing material options, for higher structural performance and thermal efficiencies
- Total of 10 chambers in frame profile for optimal structural strength and thermal performance
- Frame internal webs placed strategically for maximum structural support of glazing unit
- Frame and sash hollow compartments allow for optimal reinforcement required in heavy commercial applications
- Fusion welded corners provide environmental comfort and protect against leaks
- Compression-seal window design enhances protection against water intrusion and air infiltration
- T-bar for ease of mulling and stacking
- Common frame on all four sides for ease of manufacture and labor savings
- Integral interior and exterior perimeter accessory groove

PRODUCT		STRUCTURAL AND THERMAL PERFORMANCE*							
Series	Window Type	Test Size	AAMA	Infil (CFM/ft ²)	Water (PSF)	U-Factor	SHGC	VT	CR
11300	Fixed-Int. glazed	60" x 99"	AW-PG100	<.01	12 lbs	0.15	0.19	0.37	76
11300	Fixed-Ext. glazed	60" x 99"	AW-PG100	.03	15 lbs	0.15	0.19	0.37	80

PRODUCT		STC & OITC PERFORMANCE							
Series	Window Type	Test Size	Glass Configuration		Spacer Size	Argon	Lami	STC	OITC
11300	Fixed	47" x 59"	1" - (1/4" - 1/2" AS - 1/4")		1/2"	yes	no	32	26
11300	Fixed	47" x 59"	1-5/8" - (1/4" - .030" - 1/4" - 29/32" AS - 3/16")		29/32"	yes	.030	40	32
11300	Fixed	47" x 59"	1-5/8" - (1/8" - .030" - 1/8" - 1-5/23" AS - 3/16")		1-5/32"	yes	.030	38	30

*PW thermal performance based on computer simulation using a 47" x 59" window size. Thermal performance testing/simulation sizes are standards set by the NFRC. Triple-glazed, high-performance glass package with Super Spacer® Premium spacer and superior thermal technology frame and sashes.



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