



1500VinylCollection

Single Hung Windows

BUILDER



Building choice into every view.

1500 Single Hung Windows



Upgrade your view

- High performance in a builder's window
- Traditional or contemporary frame design
- SDL or GBG grilles
- Sizes to meet your need
- Egress Size: 3050SH, 4040SL
- Limited Lifetime Warranty

When you build a lot of homes, you expect a lot from your windows. Quality. Performance. Value. A company you can count on. Our new 1500 vinyl windows offer all that and more, including a full range of options to meet your every need.

Color options *Some restrictions may apply.



Frame Options



Brickmould

Beveled

Flat

Grille types Also available with no grilles.

GBG Grilles



3/4" Flat, 5/8" or 1" Sculptured

SDL Grilles



7/8" or 1-1/4" SDL with Shadow Bar

Window Anatomy

Multi-chamber construction with fusion-welded sash and frame

7/8" or 1" dual or triple pane insulated glass with Warm Edge spacer saves energy

Sloped sill drains water away from home exterior

Integral J-channel for simple, secure siding installation (optional double utility trim)



Glass options Compare U-Factor ratings

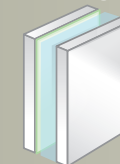
Visit 1500VinylCollection.com for more detailed information

Low-E



7/8" Low-E	.35	SHGC .29
One lite of Low-E		
7/8" Low-E ^{SC}	.35	SHGC .22
One lite of solar cooling Low-E		
7/8" Low-E2+	.30	SHGC .28
One lite of Low-E and one lite of Interior Surface Low-E		

Low-E with Argon



7/8" HP	.32	SHGC .28
One lite of Low-E with argon		
7/8" HP ^{SC}	.32	SHGC .22
One lite of solar cooling Low-E with argon		
7/8" HP2+	.28	SHGC .28
One lite of Low-E and one lite of Interior Surface Low-E with argon		

Triple-Glazed



7/8" HP2 _{Max}	.25	SHGC .25
Two lites of Low-E with two chambers of argon		
7/8" HP3 _{Max}	.23	SHGC .22
Two lites of Low-E, two chambers of argon, one lite of Interior Surface Low-E		
1" HP3 _{Max}	.22	SHGC .22
Two lites of Low-E, two chambers of argon, one lite of Interior Surface Low-E		

Values reflect 3050 call size brickmould non-drywall glazed single window with 3mm glass, WarmEdge Spacer, no grilles.

easyinstall

for a quick, correct fit

- Alignment clips
- Double utility trim
- Integral J-channel
- Jamb extensions or drywall receiver options
- Accessory grooves
- Protective construction film

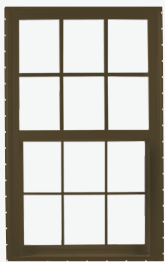
Window Highlights



Optional H-LC 50 upgrade available in limited sizes



Interior



Exterior



Jamb Alignment Clips

Aligns and holds frame in place during installation; enables one person to center smaller windows.



Removable Meeting Rail

Patented meeting rail anchor makes removing rail simple; ideal for drywall applications.

Patent #: 9624713



Integral Mulls

Twins and triples with continuous head and sill frame allows a mix of operating and fixed windows.

Patent #: 9038333



Interlocking Sash

Sash locks tightly together to help keep out intruders and inclement weather.



Forced Entry Resistant Locks

Enhanced security locks meet tough AAMA forced entry requirements. ADA accessible and auto-lock options available.



ADA Accessible Lock



Auto Lock



Building choice into every view

WindowSpecs

FRAME

- 3 1/2" dual wall brickmould frame depth
- 2 7/8" beveled frame depth
- 1 3/8" integral nail fin set back
- Optional 1/2" flush flange for block installs
- Optional 3/2" flat casing for rectangles and arches
- Optional double utility trim simplifies siding installation
- Custom and traditional sizing to meet your needs
- Integral J-pocket simplifies siding installations
- Interior/exterior accessory grooves
- Sloped sill for water management
- Screen clip Patent #: 61738783
- Mixed operating and fixed integral mulls Patent #: 9038333
- Easy to remove meeting rail Patent #: 9624713

SASH

- Interior glazed top glass
- Exterior glazed bottom glass
- Interlocking sash with dual pile weatherstripping
- Inverted block & tackle or constant force coil balances
- Recessed tilt-latch
- Dual lift rails for easy operation
- Half screens (shipped separately)

GLASS

- Double: Low-E, Low-E^{SC}, Low-E2+, Low-E2+^{SC}, HP, HP^{SC}, HP2+, HP2+^{SC}, LE^{PS} and HP^{PS}
- Triple: HP2_{MAX}, HP2_{MAX}^{SC}, HP3_{MAX}, HP3_{MAX}^{SC}
- Optional Warm Edge+ spacers
- Configurable STC values up to 35
- Impact, tempered, obscure and rain options
- Bronze Tint, Grey Tint and Black Spandrel options

GRILLES

- GBG (Grilles Between Glass) 3/4" Flat, 5/8" or 1" Sculptured
- SDL (Simulated Divided Lite) 7/8" or 1 1/4" with Shadow Bar
- Colonial, Plaza, Prairie, Diamond, Gothic patterns available

LOCKS

- Standard forced entry resistant cam lock
- Self-latching forced entry resistant auto-lock option
- ADA accessible forced entry resistant auto-lock option

PERFORMANCE CERTIFICATIONS

- FLORIDA APPROVED
For a list of Ply Gem's Florida approved products visit floridabuilding.org.
- CANADIAN STANDARDS ASSOCIATION CERTIFIED
- TDI TEXAS DEPARTMENT OF INSURANCE

Product Type	Test Unit Size (inches)	Overall Rating	NAFS Product Performance							Housing Performance	
			Air Infiltration (scfm/ft²)	Air Exfiltration (scfm/ft²)	Water Pressure (psf)	Structural Pressure (psf)	Test Standard(s)	Florida Approval	TDI Approval	AAMA 1701.2 Wind Zone	AAMA 1704 Egress Rated
Single Hung	36 x 62	H-LC35	0.17	0.16	5.43	+35/-35	NAFS 05, 08, 11	FL16103	WIN-1769		
	35.5 x 73.5	H-LC30	0.17	0.16	4.59	+30/-30	NAFS 05, 08, 11	FL16103			
	40 x 72	H-LC25	0.13	0.11	3.76	+35/-35	NAFS 05, 08, 11	FL16103	WIN-1769	WZ II	Yes
	44 x 77.125	H-LC25	0.13	0.11	3.76	+25/-25	NAFS 05, 08, 11	FL16103	WIN-1769	WZ I	Yes
	35.5 x 73.5	H-LC35	0.17	0.16	7.52	+35/-35	NAFS 05, 08, 11	FL16103			
	36 x 74	H-LC50	0.13	0.11	7.52	+50/-50	NAFS 05, 08, 11	FL16103	WIN-1769	WZ III	Yes
	44 x 77.125	H-LC35	0.13	0.11	5.43	+40/-40	NAFS 05, 08, 11	FL16103	WIN-1769	WZ III	Yes
	35.5 x 61.5	H-LC50	0.17	0.16	7.52	+55/-55	NAFS 05, 08, 11	FL16103			
	36 x 74	H-LC35	0.17	0.16	5.43	+35/-35	NAFS 05, 08, 11	FL16103	WIN-1769	WZ II	Yes
	36 x 74	H-LC50	0.17	0.16	7.52	+50/-50	NAFS 05, 08, 11	FL16103		WZ III	Yes
	36 x 84	H-LC50	0.11	0.06	7.52	+50/-50	NAFS 05, 08, 11	FL16103	WIN-1769	WZ III	Yes
	40 x 72	H-LC50	0.11	0.05	7.52	+50/-50	NAFS 05, 08, 11	FL16103	WIN-1769	WZ III	Yes
	44 x 77.125	H-LC40	0.11	0.05	7.52	+40/-40	NAFS 05, 08, 11	FL16103	WIN-1769	WZ III	Yes
	48 x 72	H-LC50	0.11	0.06	7.52	+50/-50	NAFS 05, 08, 11	FL16103	WIN-1769	WZ III	Yes
	48 x 96	H-LC30	0.11	0.06	7.52	+30/-35	NAFS 05, 08, 11	FL16103	WIN-1769	WZ I	Yes
	52.125 x 62	H-LC50	0.28	0.19	7.52	+50/-50	NAFS 05, 08, 11	FL16103	WIN-1769		
	53 x 77.125	H-LC40	0.28	0.19	7.52	+40/-40	NAFS 05, 08, 11	FL16103	WIN-1769	WZ III	Yes
	53 x 77.125	H-LC50	0.28	0.19	7.52	+50/-50	NAFS 05, 08, 11	FL16103	WIN-1769	WZ III	Yes
Integral Mull (Twin)	38 x 77.125	H-LC50	0.11	0.05	7.52	+50/-60	AAMA 506-06, 08	FL16103	WIN-1771	NA	NA
	52.125 x 62	H-LC50	0.28	0.19	7.52	+50/-60	AAMA 506-06, 08	FL16103		NA	NA
	52.125 x 71	H-LC50	0.28	0.19	7.52	+50/-50	AAMA 506-06, 08	FL16103			
	71.5 x 73.5	H-R25	0.17	0.14	3.76	+40/-40	NAFS 05, 08, 11	FL16100			
	72.5 x 74	H-LC25	0.18	0.15	3.76	+35/-35	NAFS 05, 08, 11	FL16100		WZ II	Yes
	71.5 x 73.5	H-R50	0.17	0.14	7.52	+50/-50	NAFS 05, 08, 11	FL16100			
	71.5 x 73.5	H-LC35	0.26	0.17	5.43	+35/-35	NAFS 05, 08, 11	FL16100		WZ II	Yes
	71.5 x 73.5	H-LC50	0.26	0.17	7.52	+50/-55	NAFS 05, 08, 11	FL16100		WZ III	Yes
	76.125 x 65.125	H-R50	0.30	0.30	7.52	+50/-50	NAFS 05, 08, 11	FL16100			
	81 x 72	H-LC50	0.18	0.16	7.52	+50/-50	NAFS 05, 08, 11	FL16100		WZ III	Yes
Integral Mull (Triple)	84.25 x 77.125	H-LC40	0.18	0.16	7.52	+40/-40	NAFS 05, 08, 11	FL16100		WZ III	Yes
	81 x 72	H-LC50	0.18	0.16	7.52	+50/-50	NAFS 05, 08, 11	FL16100		WZ III	Yes
	84.25 x 77.125	H-LC40	0.18	0.16	7.52	+40/-40	NAFS 05, 08, 11	FL16100		WZ III	Yes
	107.5 x 73.5	H-R25	0.17	0.14	3.76	+40/-40	NAFS 05, 08, 11	FL16100			
	109 x 74	H-LC25	0.18	0.15	3.76	+35/-35	NAFS 05, 08, 11	FL16100		WZ II	Yes
	107.5 x 65.5	H-LC50	0.26	0.17	7.52	+50/-50	NAFS 05, 08, 11	FL16100			
	107.5 x 73.5	H-LC35	0.26	0.17	5.43	+35/-35	NAFS 05, 08, 11	FL16100		WZII	Yes
	107.5 x 73.5	H-LC50	0.26	0.17	7.52	+50/-55	NAFS 05, 08, 11	FL16100		WZ III	Yes
	114.625 x 65.125	H-R40	0.3	0.3	6.06	+40/-45	NAFS 05, 08, 11	FL16100		WZ III	Yes
	114.625 x 65.125	H-R45	0.3	0.3	7.52	+45/-50	NAFS 05, 08, 11	FL16100			
121 x 77.125	H-LC45	0.16	0.14	7.52	+45/-45	NAFS 05, 08, 11	FL16100		WZ III	Yes	

- Compression Tape Glazing
- Two-Sided Tape Glazing
- Impact Rated

Test Standards

- AAMA/WDMA/CSA 101/I.S.2/A440-05 (NAFS-05)
- AAMA/WDMA/CSA 101/I.S.2/A440-11 (NAFS-11)
- AAMA/WDMA/CSA 101/I.S.2/A440-08 (NAFS-08)
- AAMA 506-06





1500 Vinyl Collection

Sliding Windows

BUILDER



Building choice into every view.

1500 Sliding Windows



When you build a lot of homes, you expect a lot from your windows. Quality. Performance. Value. A company you can count on. Our new 1500 vinyl windows offer all that and more. Including a full range of options to meet your every need.

Frame Options



Brickmould

Beveled

Flat

Window Anatomy

Multi-chamber construction with fusion-welded sash and frame

7/8" or 1" dual or triple pane insulated glass with Warm Edge spacer saves energy

Integral J-channel for simple, secure siding installation (optional double utility trim)



Upgrade your view

- High performance in a builder's window
- Traditional or contemporary frame design
- SDL or GBG grilles
- Sizes to meet your need
- Egress Size: 4040SL, 3050SH
- Limited Lifetime Warranty

Color options *Some restrictions may apply.



Grille types Also available with no grilles.

GBG Grilles



3/4" Flat, 5/8" or 1" Sculptured

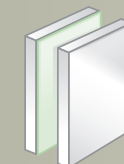
SDL Grilles



7/8" or 1-1/4" SDL with Shadow Bar

Glass options Compare U-Factor ratings

Low-E



7/8" Low-E .35 SHGC .28

One lite of Low-E.

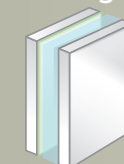
7/8" Low-E^{SC} .35 SHGC .21

One lite of solar cooling Low-E.

7/8" Low-E2+ .30 SHGC .27

One lite of Low-E and one lite of Interior Surface Low-E.

Low-E with Argon



7/8" HP .32 SHGC .28

One lite of Low-E with argon.

7/8" HP^{SC} .32 SHGC .21

One lite of solar cooling Low-E with argon.

7/8" HP2+ .28 SHGC .27

One lite of Low-E and one lite of Interior Surface Low-E with argon.

Triple-Glazed



7/8" HP2_{Max} .26 SHGC .24

Two lites of Low-E with two chambers of argon.

7/8" HP3_{Max} .24 SHGC .21

Two lites of Low-E, two chambers of argon, one lite of Interior Surface Low-E.

1" HP3_{Max} .22 SHGC .21

Two lites of Low-E, two chambers of argon, one lite of Interior Surface Low-E.

Values reflect 5030 call size brickmould units simulated with 3mm glass, no grilles, non-reinforced, WarmEdge spacer. Beveled frame thermal values may differ slightly.

easyinstall

for a quick, correct fit

- Alignment clips
- Double utility trim
- Integral J-channel
- Jamb extensions or drywall receiver options
- Accessory grooves
- Protective construction film

Window Highlights



Removable Sash

Operating sash is removable for easy cleaning.



Jamb Alignment Clips

Aligns and holds frame in place during installation; enables one person to center smaller windows.



Interlocking Sash

Sash locks tightly together to help keep out intruders and inclement weather.



Smooth Operation

Push/pull rails and wide brass rollers make opening and closing effortless.



Forced Entry Resistant Locks

Enhanced security locks meet tough AAMA forced entry requirements. Auto-lock option available.



Auto Lock



Exterior



Optional H-LC 50 upgrade available in limited sizes





Building choice into every view

WindowSpecs

FRAME

- 3 1/2" dual wall brickmould frame depth
- 2 7/8" beveled frame depth
- 1 3/8" integral nail fin set back
- Optional 1/2" flush flange for block installs
- Optional 3 1/2" flat casing for rectangles and arches
- Optional double utility trim simplifies siding installation
- Custom and traditional sizing to meet your needs
- Integral J-pocket simplifies siding installations
- Interior/exterior accessory grooves
- Screen clip Patent #: 61738783

SASH

- Interlocking sash with dual pile weatherstripping
- Interior glazed fixed glass
- Exterior glazed operating sash
- Dual push rails for easy operation
- Sash lifts out for easy cleaning
- Brass rollers ensure smooth operation
- Half screens (shipped separately)

GLASS

- Double: Low-E, Low-E^{SC}, Low-E2+, Low-E2+^{SC}, HP, HP^{SC}, HP2+, HP2+^{SC}, LE^{PS} and HP^{PS}
- Triple: HP2_{MAX}, HP2_{MAX}^{SC}, HP3_{MAX}, HP3_{MAX}^{SC}
- Optional Warm Edge+ spacers
- Configurable STC values up to 34
- Impact, tempered, obscure and rain options
- Bronze tint, Grey tint and Black Spandrel options

GRILLES

- GBG (Grilles Between Glass) – 3/4" Flat, 5/8" or 1" Sculptured
- SDL (Simulated Divided Lite) – 7/8" or 1 1/4" with Shadow Bar
- Colonial, Plaza, Prairie, Diamond, Gothic patterns available

LOCKS

- Standard forced entry resistant cam lock
- Self-latching forced entry resistant auto-lock option

PERFORMANCE CERTIFICATIONS



FLORIDA APPROVED FL16102
For a list of Ply Gem's Florida approved products visit floridabuilding.org.



CANADIAN STANDARDS ASSOCIATION CERTIFIED



TEXAS DEPARTMENT OF INSURANCE
WIN1767 non-impact, WIN1771 impact

Product Type	Test Unit Size (inches)	Overall Rating	NAFS Product Performance							Housing Performance	
			Air Infiltration (scfm/ft²)	Air Exfiltration (scfm/ft²)	Water Pressure (psf)	Structural Pressure (psf)	Test Standard(s)	Florida Approval	TDI Approval	AAMA 1704 Wind Zone	AAMA 1704 Egress Rated
Horizontal Slider (XD)	63 x 48	HS-LC50	0.08	0.07	7.52	+60/-60	NAFS 05, 08, 11	FL16102	WIN-1767	WZ III	Yes
	71.5 x 35.5	HS-LC50	0.07	0.07	7.52	+50/-50	NAFS 05, 08, 11	FL16102			
	72 x 56	HS-LC30	0.07	0.07	7.52	+30/-35	NAFS 05, 08, 11	FL16102	WIN-1767		
	72 x 72	HS-LC25	0.08	0.07	7.52	+25/-25	NAFS 05, 08, 11	FL16102	WIN-1767	WZ I	Yes
	63 x 48	HS-LC50	0.08	0.07	7.52	+60/-60	AAMA 506-06, 08	FL16102		NA	NA
Horizontal Slider (XDX-Even)	63 x 44	HS-LC45	0.09	0.06	6.89	+45/-45	NAFS 05, 08, 11	FL16102	WIN-1767	WZ III	No
	72 x 56	HS-LC40	0.09	0.06	6.89	+40/-45	NAFS 05, 08, 11	FL16102	WIN-1767	WZ III	Yes
	84 x 63	HS-LC30	0.09	0.06	6.89	+30/-30	NAFS 05, 08, 11	FL16102	WIN-1767	WZ I	Yes
	96 x 72	HS-R15	0.09	0.06	6.89	+15/-15	NAFS 05, 08, 11	FL16102	In Process	WZ I	Yes
	108 x 72	HS-R15	0.11	0.06	5.43	+15/-15	NAFS 05, 08, 11	FL16102	In Process	WZ I	Yes
Horizontal Slider (XDX-QHD)	63 x 44	HS-LC50	0.10	0.07	7.52	+50/-50	NAFS 05, 08, 11	FL16102	WIN-1767	WZ III	No
	72 x 56	HS-LC45	0.10	0.07	7.52	+45/-45	NAFS 05, 08, 11	FL16102	WIN-1767	WZ III	No
	84 x 63	HS-LC30	0.10	0.07	7.52	+30/-35	NAFS 05, 08, 11	FL16102	WIN-1767	WZ I	No
	96 x 72	HS-LC25	0.10	0.07	7.52	+25/-25	NAFS 05, 08, 11	FL16102	WIN-1767	WZ I	Yes
	108 x 72	HS-R15	0.12	0.12	5.43	+15/-15	NAFS 05, 08, 11	FL16102	In Process	WZ I	Yes

Impact Rated

Test Standards

- AAMA/WDMA/CSA 101/LS.2/A440-05 (NAFS-05)
- AAMA/WDMA/CSA 101/LS.2/A440-08 (NAFS-08)
- AAMA/WDMA/CSA 101/LS.2/A440-11 (NAFS-11)

Performance Class Designations

- R - Residential
- LC - Light Commercial





1500VinylCollection

Casement

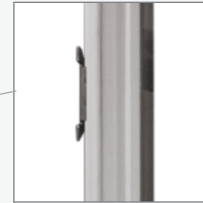


Building choice into every view.

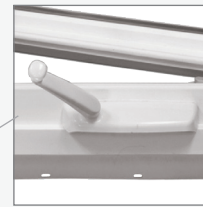
Our 1500 Vinyl Collection Casement windows are available in singles, twins, triples, quads, fixed and a wide selection of architectural shapes.



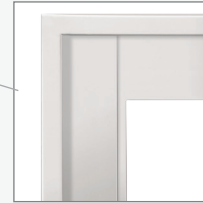
Sturdy Construction
Multi-chamber construction improves strength and thermal performance. Fusion-welded corners add strength and prevent air/water infiltration.



Multi-point Locks
Operate with a single handle for maximum security with minimum effort.



Smooth Operation
Ellipse operator with stainless steel hinge track and adjustable hinges opens to 90°.



Casing Options
Classic brickmould profile and 3-1/2" wide flat casing

Product Type	Test Unit Size (inches)	Overall Rating	Air Infiltration (scfm/ft2)	Water Pressure (psf)	Structural Pressure (psf)	Florida FL Number
Casement	35.5 x 71.5	C-LC50	0.01	9.75 psf	+50/-50	FL 15317
Awning	47.5 x 35.5	AP-LC50	0.09	9.00 psf	+50/-50	FL 15316
Casement FW	71.5 x 71.5	FW-R60	0.00	9.00 psf	+60/-60	FL 15325

Color options



Grille types *Also available with no grilles.



GBG Grilles
3/4" Flat, 5/8" or 1" Sculptured



SDL Grilles
7/8" or 1-1/4" SDL with Shadow Bar

Glass options Laminated glass, Obscure and Rain pattern glass. Bronze tint, Grey tint and Black Spandrel options.

All values 3.0mm glass, WarmEdge Spacer, no grilles. Compare U-Factor ratings

Low-E



7/8" Low-E	.32	SHGC .25
One lite of Low-E		
7/8" Low-E ^{SC}	.30	SHGC .19
One lite of solar cooling Low-E		
7/8" Low-E2+	.28	SHGC .24
One lite of Low-E and one lite of Interior Surface Low-E		

Low-E with Argon



7/8" HP	.29	SHGC .25
One lite of Low-E with argon		
7/8" HP ^{SC}	.28	SHGC .19
One lite of solar cooling Low-E with argon		
7/8" HP2+	.26	SHGC .24
One lite of Low-E and one lite of Interior Surface Low-E with argon		

Triple-Glazed



7/8" HP2 _{Max}	.25	SHGC .21
Two lites of Low-E with two chambers of argon		
7/8" HP3 _{Max}	.23	SHGC .19
Two lites of Low-E, two chambers of argon, one lite of Interior Surface Low-E		

1500 Vinyl Collection

Patio Door



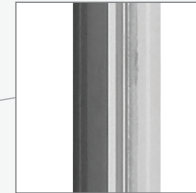
Dramatic Entry

Our 1500 Vinyl Collection Sliding Patio Doors are available with matching fixed panel, side lites, transoms and segmented transoms.



Sturdy Construction

Multi-chamber construction with fusion-welded corners and pre-punched nail fin. Full perimeter weatherstripping ensures tight seal.



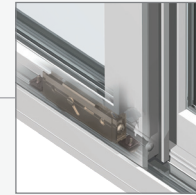
Interlocking Panels

Self-centering interlock satisfies forced entry requirements.



Durable Hardware

Powder-coated handles resist scratches and fading. Exterior handles available with or without keyed lock.



Smooth Operation

Adjustable rollers ensure smooth operation; durable aluminum threshold and sill track.

Product Type	Test Unit Size (inches)	Overall Rating	Air Infiltration (scfm/ft ²)	Water Pressure (psf)	Structural Pressure (psf)	Florida FL Number
Sliding Patio Door	95.5 X 95.5	LC-PG35	0.11	6.89 psf	+35/-35	15297
	71.5 X 95.5	LC-PG40	0.07	6.00 psf	+40/-40	15297
	71.5 X 81.5	LC-PG50	0.11	7.50 psf	+50/-50	15297

Color Options

Available with co-extruded Clay, Dark Bronze, Black, and Dove Grey exteriors combined with a neutral White interior



Grille Types *Also available with no grilles.



GBG Grilles
3/4" Flat, 5/8" or 1" Sculptured



SDL Grilles
7/8" or 1-1/4" SDL with Shadow Bar

Glass Options

Laminated glass for sound control (STC31), Obscure and Rain pattern glass. Bronze tint, Grey tint and Black Spandrel options.

All values 6068 with 3mm glass, WarmEdge Spacer, no grilles. Compare U-Factor ratings.

Low-E



7/8" Low-E	.33	SHGC .29
One lite of Low-E		
7/8" Low-E ^{SC}	.33	SHGC .23
One lite of solar cooling Low-E		
7/8" Low-E2+	.28	SHGC .28
One lite of Low-E and one lite of Interior Surface Low-E		

Low-E with Argon



7/8" HP	.30	SHGC .29
One lite of Low-E with argon		
7/8" HP ^{SC}	.29	SHGC .22
One lite of solar cooling Low-E with argon		
7/8" HP2+	.26	SHGC .28
One lite of Low-E and one lite of Interior Surface Low-E with argon		

Triple-Glazed



7/8" HP2 _{Max}	.25	SHGC .25
Two lites of Low-E with two chambers of argon		
7/8" HP3 _{Max}	.23	SHGC .22
Two lites of Low-E, two chambers of argon, one lite of Interior Surface Low-E		
1" HP3 _{Max}	.21	SHGC .22
Two lites of Low-E, two chambers of argon, one lite of Interior Surface Low-E		



1500 Vinyl Collection

Single Hung Impact Windows

IMPACT



Building choice into every view.

1500 Single Hung Impact Windows

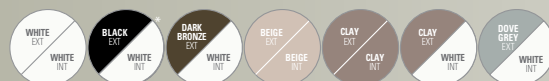


Relax. It's a 1500 Vinyl Collection Impact Window. For homeowners, it means added protection. For builders, rest assured you'll get the support you need — from a window line that meets tough coastal codes, and the company that builds them.

Protect your home

- Traditional or contemporary frame design
- Sizes to meet your needs
- Passes ASTM E1886/E1996 Large missile Impact Tests to secure your home
- Laminated glass with PVB inner layer to maintain seal in high-impact situations
- Egress Size: 3050SH, 4040SL

Color Options *Some restrictions may apply.



Frame Options



Brickmould

Beveled

Flat

Window Anatomy

Multi-chamber construction with fusion-welded sash and frame

Sloped sill drains water away from home exterior

Integral J-channel for simple, secure siding installation (optional double utility trim)



Grille Types Also available with no grilles.

GBG Grilles



3/4" Flat, 5/8" or 1" Sculptured

SDL Grilles



7/8" or 1-1/4" SDL with Shadow Bar

Thermal Performance

1500 Impact Thermal Performance Summary

Values shown are for 7/8" dual pane 3.0mm, 3.0mm / 0.090lami / 3.0mm, no grilles

Warm Edge Spacer	U-factor	SHGC
Low-E impact	0.36	0.28
Low-E ^{SC} impact	0.35	0.22
HP impact	0.32	0.28
HP ^{SC} impact	0.31	0.21
Low-E2+ impact	0.31	0.27
Low-E2+ ^{SC} impact	0.31	0.21
HP2+ impact	0.28	0.27
HP2+ ^{SC} impact	0.28	0.21
Warm Edge Spacer (metal)	U-factor	SHGC
Low-E impact	0.35	0.28
Low-E ^{SC} impact	0.35	0.22
HP impact	0.31	0.28
HP ^{SC} impact	0.31	0.21
Low-E2+ ^{SC} impact	0.30	0.21
HP2+ ^{SC} impact	0.27	0.21



easyinstall

for a quick, correct fit

- Alignment clips
- Integral mull
- Double utility trim
- Integral J-channel
- 1/2" flange for block installs
- Drywall receiver and return
- Accessory grooves
- Protective construction film

Window Highlights



Exterior

Interior



Laminated Glass

Our impact glass uses technology similar to a car windshield with the glass bonded using heat and pressure to a PVB inner layer.



Jamb Alignment Clips

Aligns and holds frame in place during installation; enables one person to center smaller windows.



Interlocking Sash

Sash locks tightly together to help keep out intruders and inclement weather.



Forced-Entry Resistant Locks

Enhanced security locks meet tough AAMA forced entry requirements. Auto-lock* option available.



Auto-Lock*

FRAME

3 1/2" dual-wall brickmould frame depth
 2 7/8" beveled frame depth
 1 3/8" integral nail fin set back
 Optional 1/2" flush flange for block installs
 Optional 3/2" flat casing
 Optional double utility trim simplifies siding installation
 Custom, traditional and block sizing to meet your needs
 Integral J-pocket simplifies siding installations
 Interior/exterior accessory grooves
 Sloped sill for water management
 Screen clip Patent #: 61738783
 Mixed operating and fixed integral mulls Patent #: 9038333

SASH

Interior glazed top glass
 Exterior glazed bottom glass
 Interlocking sash with dual pile weatherstripping
 Constant force coil balances
 Dual lift rails for easy operation
 Half screens (shipped separately)

GLASS

Double: Low-E, Low-E^{sc}, Low-E2+, Low-E2+^{sc}, HP, HP^{sc}, HP2+, HP2+^{sc}
 Optional Warm Edge+ spacers
 Configurable STC values up to 31
 Obscure and rain options

GRILLES

GBG (Grilles Between Glass) 3/4" Flat, 5/8" or 1" Sculptured
 SDL (Simulated Divided Light) 7/8" or 1 1/4" with Shadow Bar
 Colonial, Plaza, Prairie, Diamond, Gothic patterns available

LOCKS

Standard forced-entry resistant cam lock
 Self-latching forced-entry resistant auto-lock option

PERFORMANCE CERTIFICATIONS



FLORIDA APPROVED FL16103

For a list of Ply Gem's Florida approved products visit floridabuilding.org.

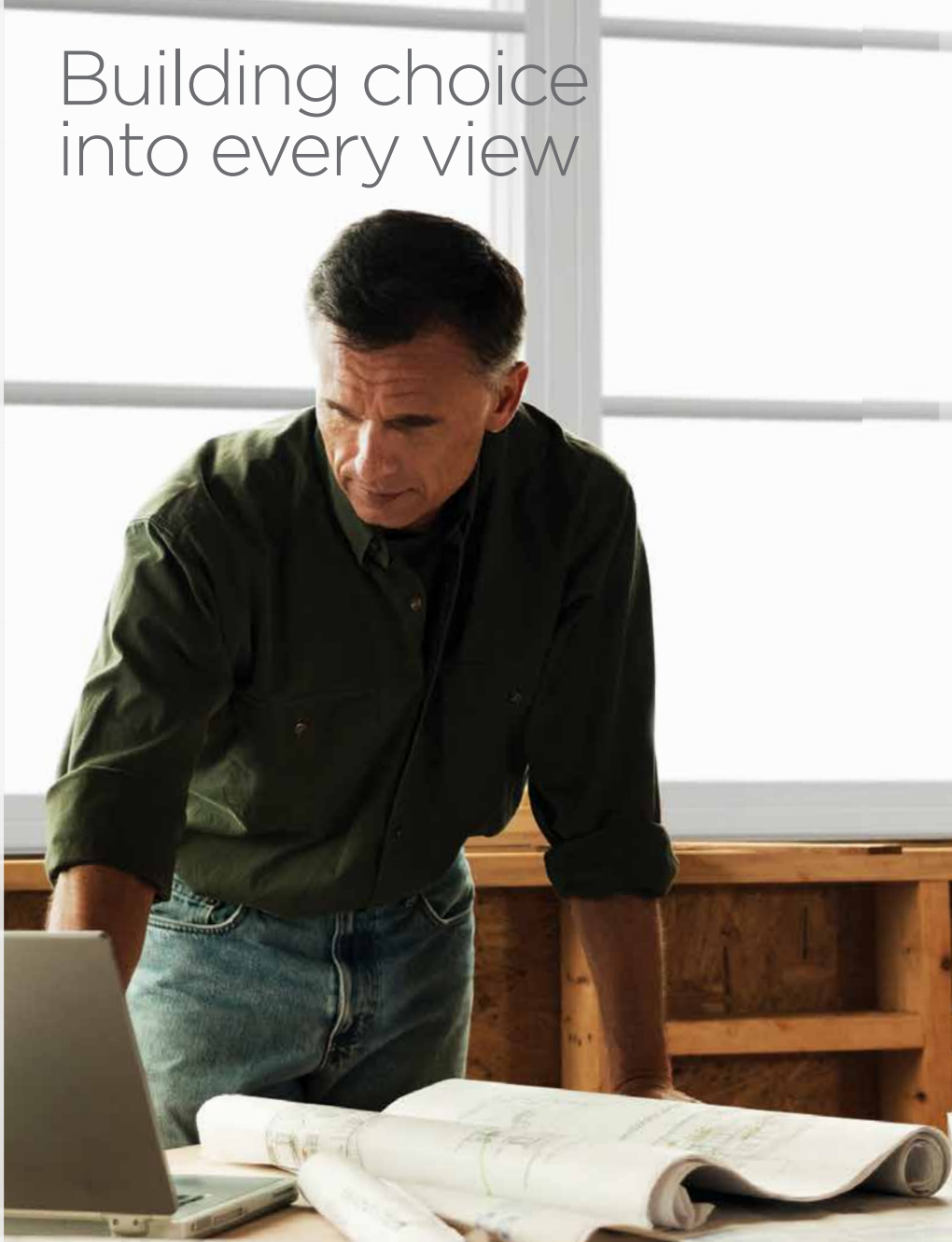
Single hung FL16103

Sliding FL16102

Fixed FL16104



CANADIAN STANDARDS ASSOCIATION CERTIFIED



1500 Impact NAFS/AAMA Industry Product Performance Testing Chart

Product Type	Impact Test Unit Size (inches)	Overall Rating	Air Infiltration (scfm/ft)	Air Exfiltration (scfm/ft)	Water Pressure (psf)	Structural Pressure (psf)	Test Standard(s)	Florida Approval	TDI Approval
Single Hung	38 x 77.125	H-LC50	0.11	0.05	7.52	+50/-60	AAMA 506-06, 08	FL16103	WIN-1771
	52.125 x 62	H-LC50	0.28	0.19	7.52	+50/-60	AAMA 506-06, 08	FL16103	WIN-1771
	52.125 x 71	H-LC50	0.28	0.19	7.52	+50/-50	AAMA 506-06, 08	FL16103	WIN-1771
Horizontal Slider (XO)	63 x 48	HS-LC50	0.08	0.07	7.52	+60/-60	AAMA 506-06, 08	FL16102	
Fixed Window	60 x 72	FW-LC50	0.00	0.00	12.11	+50/-60	AAMA 506-06, 08	FL16104	WIN-1768
	48 x 80	FW-LC50	0.00	0.00	12.11	+55/-55	AAMA 506-06, 08	FL16104	WIN-1768

Impact units require specified glazing material, impact laminated glass, hardware and reinforcements.



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1500 Vinyl Collection

Impact Casement Windows

IMPACT

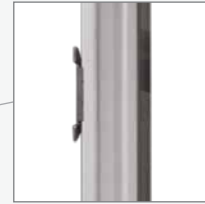


Building choice into every view.

Our 1500 Vinyl Collection Casement windows are available in singles, fixed and a wide selection of architectural shapes.



Sturdy Construction
Multi-chamber construction improves strength and thermal performance. Fusion-welded corners add strength and prevent air/water infiltration.



Multi-point Locks
Operate with a single handle for maximum security with minimum effort. Stainless steel lockbar for all standard sizes.



Laminated Glass
Our impact glass uses technology similar to a car windshield with the glass bonded using heat and pressure to a PVB inner layer.



Smooth Operation
Ellipse operator with stainless steel hinge track and adjustable hinges opens to 90°.

Product Type	Test Unit Size (inches)	Overall Rating	Air Infiltration (scfm/ft2)	Water Pressure (psf)	Structural Pressure (psf)	Florida FL Number
Casement	35.5 x 71.5	C-LC50	0.01	9.75 psf	+50/-50	FL 15317
Casement FW	71.5 x 71.5	FW-R60	0.00	9.00 psf	+60/-60	FL 15325

Color options



Grille types *Also available with no grilles.



GBG Grilles
3/4" Flat, 5/8" or 1" Sculptured



SDL Grilles
7/8" or 1-1/4" SDL with Shadow Bar

Glass options

All values 3.0mm glass, WarmEdge Spacer, no grilles. Compare U-Factor ratings

Low-E



7/8" Low-E	.32	SHGC .25
One lite of Low-E		
7/8" Low-E ^{SC}	.30	SHGC .19
One lite of solar cooling Low-E		
7/8" Low-E2+	.28	SHGC .24
One lite of Low-E and one lite of Interior Surface Low-E		
7/8" Low-E2+ ^{SC}	.28	SHGC .18
One lite of solar cooling Low-E and one lite of Interior Surface Low-E		

Low-E with Argon



7/8" HP	.29	SHGC .25
One lite of Low-E with argon		
7/8" HP ^{SC}	.28	SHGC .19
One lite of solar cooling Low-E with argon		
7/8" HP2+	.26	SHGC .24
One lite of Low-E and one lite of Interior Surface Low-E with argon		
7/8" HP2+ ^{SC}	.25	SHGC .18
One lite of s Low-E and one lite of Interior Surface Low-E with argon gas fill		



STC 31

1500 Vinyl Collection

Impact Patio Door

IMPACT



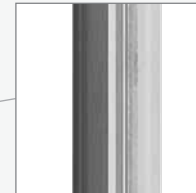
Dramatic Entry

Our 1500 Vinyl Collection Impact Sliding Patio Doors are available with matching fixed panel, side lites, and transoms.



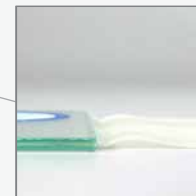
Sturdy Construction

Multi-chamber construction with fusion-welded corners and pre-punched nail fin. Full perimeter weatherstripping ensures tight seal.



Interlocking Panels

Self-centering interlock satisfies forced entry requirements.



Laminated Glass

Our impact glass uses technology similar to a car windshield with the glass bonded using heat and pressure to a PVB inner layer.



Smooth Operation

Adjustable rollers ensure smooth operation; durable aluminum threshold and sill track.

Product Type	Test Unit Size (inches)	Overall Rating	Air Infiltration (scfm/ft ²)	Water Pressure (psf)	Structural Pressure (psf)
Patio Door	71.5 X 81.5	LC-PG50	0.11	7.50 psf	+50/-50
Fixed	38.1875 X 81.5	LC-PG50	0.02	9.82 psf	+50/-50

Color Options

Available with co-extruded Clay, Dark Bronze, Black and Dove Grey exteriors combined with a neutral White interior



Grille Types *Also available with no grilles.



GBG Grilles
3/4" Flat, 5/8" or 1" Sculptured



SDL Grilles
7/8" or 1-1/4" SDL with Shadow Bar

Glass Options

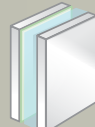
All values 6068 with 3mm glass, WarmEdge Spacer, no grilles. Compare U-Factor ratings.

Low-E



7/8" Low-E	.33	SHGC .29
One lite of Low-E		
7/8" Low-E ^{SC}	.33	SHGC .23
One lite of solar cooling Low-E		
7/8" Low-E2+	.28	SHGC .28
One lite of Low-E and one lite of Interior Surface Low-E		
7/8" Low-E2+ ^{SC}	.28	SHGC .21
One lite of solar cooling Low-E and one lite of Interior Surface Low-E		

Low-E with Argon



7/8" HP	.29	SHGC .29
One lite of Low-E with argon		
7/8" HP ^{SC}	.29	SHGC .22
One lite of solar cooling Low-E with argon		
7/8" HP2+	.25	SHGC .28
One lite of Low-E and one lite of Interior Surface Low-E with argon		
7/8" HP2+ ^{SC}	.25	SHGC .21
One lite of Low-E and one lite of Interior Surface Low-E with argon gas fill		



STC 31



FL 15297