

An Even Closer Look at

PARAMOUNT
WINDOWS



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WINDOW STYLES

Casements like all Paramount Window products are available in clad, PVC, or all wood frame types. The casement is hinged on the top and bottom and it opens like a door. This provides superior ventilation, easy cleaning from the interior and excellent energy savings. In fact the casement is the most energy efficient of all the ventilating style windows.

The **Casement Offset** is an excellent option when the window design calls for an opening window along with a fixed or non operating window joined to it. A casement flanker can either be mullered to one side of the fixed portion of the window system or to both sides. This ensures that there is a clear unobstructed view along with the required ventilation and egress needs.

The **Awning** window is similar to the casement in terms of construction but rather than swinging out from the sides it opens from the bottom of the window. The awning window is superior in providing thermal protection and ventilation. A unique characteristic of the awning style window is it can be left slightly opened to allow for some air flow but because the way it opens would prevent rain from entering the room. The awning can be combined with other Paramount window styles to create different designs that fit the look and needs of the building.

A **Picture** or **Fixed Sash** are non ventilating window styles that are used to create maximum viewing area. As with Paramount's entire window line, they can easily be combined with any other window style to create a design that can complement any architectural style.

The **Transom** window is joined over one of Paramount's other window style. For example you could create a 5 wide casement window and have a transom mullered over each of the casements. Whatever the design, the transom is excellent in adding daylight to the room as well as being visually appealing.

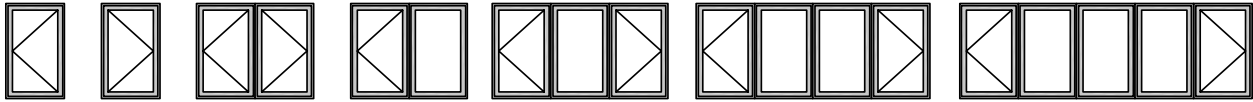
Horizontal and Vertical Sliders (double hung) allow for excellent ventilation and ease of cleaning from the interior. Using a simple tilt latch the sash can be tilted towards the inside of the room and cleaned in a matter of minutes. The double hung in particular offers a traditional style look that can help to accent any design. As with Paramount's other window styles the double hung is available in clad wood, PVC, or all wood. The horizontal slider is in the PVC frame only.

Bay Windows are 3 wide windows usually with casement flankers and a larger fixed unit in the middle. Available in different angles the bay window helps to accentuate an existing opening. On the other hand, the **Bow Window** is a bank of 4 to 6 window frames joined together in an arc. Both unique window styles are available with a head and seat board as well as an exterior roof and base if required.

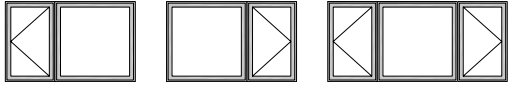
Shaped windows allow your creativity to run rampant. Available in a plethora of frame designs, grill and glass options the shaped window is really limited only by your imagination. Half rounds, arch tops, rakehead, gothic, full circle are only a small representation of what can be done to enrich any room design.

TYPICAL WINDOW STYLES

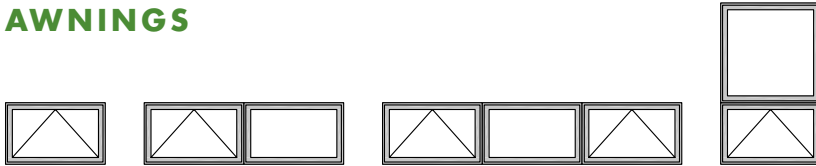
CASEMENTS



CASEMENT OFFSET



AWNINGS



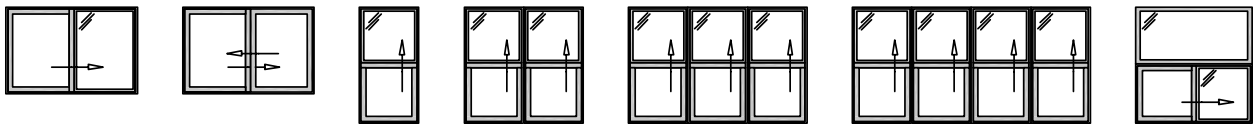
PICTURE OR FIXED SASH



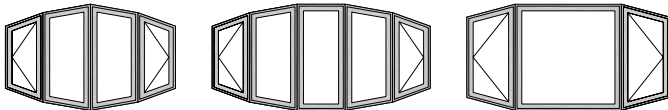
TRANSOM



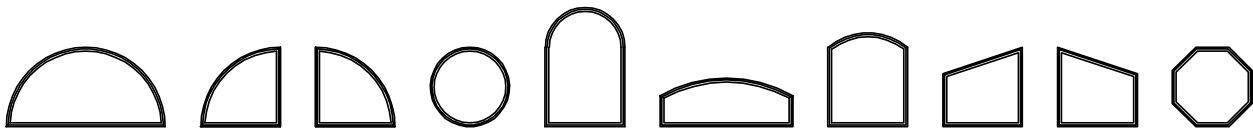
HORIZONTAL AND VERTICAL SLIDERS (single or double hung)



BAY AND BOW WINDOWS



SHAPED



FRAME

Paramount offers frame materials in PVC, Clad Wood (aluminium exterior/wood interior) and all wood.

The PVC window frame and sash are extruded using a custom formulated rigid poly vinyl chloride. It is a multi chambered high impact resistant material that is manufactured to our own exacting specifications. All corners are mitred, fusion welded than cleaned with a precision CNC corner cleaner. The aluminium clad frame offers an exterior framing material that is also extruded and comes in a variety of colours. The standard colours offered are; brown, earthtone, green, grey, red, and white. Custom colours are available upon request. The interior frame is a Douglas Fir material that can easily be stained or painted as required. The all wood frame is available for those requiring an authentic wood look to the window on the exterior and interior. All of these frame types can easily be designed for new construction or retrofit. A variety of brickmolds and jamb extensions are available to accommodate virtually any wall application.

GLAZING

Insulated glass is available in dual or triple pane. Low E glass is used to help reduce heat loss in the winter and air conditioning costs in the summer. For those elevations requiring more or less solar heat gain and visible light transmittance a combination of various Low E, green, grey and bronze glass are available to accomplish any glazing situations.

GRILLS

Grill options include a between the glass grill and wood removable grill. Colour choices vary depending on the grill used. Some of the standard colours are brass, pewter, brown, earthtone, green and white. For those requiring a more authentic look to the window design, Paramount can offer Simulated Divided Lites (SDL) and True Divided Lites (TDL).

HARDWARE

Bronze, coppertone and white are the standard colours with other colours available as requested. Hinges are heavy duty concealed hinges while the operating roto mechanism ensures an easy open and close of the sash. The locking mechanism for all venting windows is available in single or multipoint. When closed, the locks assist in ensuring a positive seal against the frame. In fact, the window does not have to be entirely closed and the reach on the lock can still grab the sash and pull it in towards the frame.

WEATHERSTRIPPING

All venting windows use a combination of compression, pile and santporene weather stripping. The weather stripping when used in conjunction with the locking mechanism will ensure that the sash is securely fit up against the frame and ensure air loss around the sash is minimized.

SCREENS

The screen bar is heavy gauge aluminium available in a variety of colours. These include, bronze, coppertone, earthtone, green, red, and white. The screening material is a non glare fibreglass mesh.

PVC WINDOW RATINGS



ENERGY RATINGS (ER)

DUAL PANE, Low E, Argon, Warm-Edge Spacer

TRIPLE PANE, Low E (x1), Argon (x1), Warm-Edge Spacer

TRIPLE PANE, Low E (x1), Argon (x2), Warm-Edge Spacer

TRIPLE PANE, Low E (x2), Argon (x2), Warm-Edge Spacer

U-VALUES

DUAL PANE, Low E, Argon, Warm-Edge Spacer

TRIPLE PANE, Low E (x1), Argon (x1), Warm-Edge Spacer

TRIPLE PANE, Low E (x1), Argon (x2), Warm-Edge Spacer

TRIPLE PANE, Low E (x2), Argon (x2), Warm-Edge Spacer

CSA A440-00 TESTING

AIR TIGHTNESS ASTM E283 (min. A1 / max. A3)

WATER TIGHTNESS ASTM E547 (min. B1 / max. B7)

WIND LOAD RESISTANCE ASTM E330 (min. C1 / max. C5)

FORCED ENTRY RESISTANCE ASTM F 588 (max. F10)

PICTURE WINDOWS	CASEMENT WINDOWS	AWNING WINDOWS	SINGLE HUNG WINDOWS	SINGLE SLIDER WINDOWS
24	24	24	14	14
36	28	28	n/a	n/a
38	30	30	n/a	n/a
41	32	32	n/a	n/a

PICTURE WINDOWS	CASEMENT WINDOWS	AWNING WINDOWS	SINGLE HUNG WINDOWS	SINGLE SLIDER WINDOWS
0.27	0.27	0.26	0.30	0.30
0.22	0.23	0.22	n/a	n/a
0.20	0.21	0.21	n/a	n/a
0.15	0.18	0.17	n/a	n/a

PICTURE WINDOWS	CASEMENT WINDOWS	AWNING WINDOWS	SINGLE HUNG WINDOWS	SINGLE SLIDER WINDOWS
FIXED	A3	A3	A2 / FIXED	A3 / FIXED
B7	B7	B7	B4	B3
C5	C5	C5	C4	C5
FIXED	F10	F10	F10	F10

CLAD WOOD WINDOW RATINGS

ENERGY RATINGS (ER)

DUAL PANE, Low E, Argon, Warm-Edge Spacer

TRIPLE PANE, Low E (x1), Argon (x1), Warm-Edge Spacer

TRIPLE PANE, Low E (x1), Argon (x2), Warm-Edge Spacer

TRIPLE PANE, Low E (x2), Argon (x2), Warm-Edge Spacer

U-VALUES

DUAL PANE, Low E, Argon, Warm-Edge Spacer

TRIPLE PANE, Low E (x1), Argon (x1), Warm-Edge Spacer

TRIPLE PANE, Low E (x1), Argon (x2), Warm-Edge Spacer

TRIPLE PANE, Low E (x2), Argon (x2), Warm-Edge Spacer

CSA A440-00 TESTING

AIR TIGHTNESS ASTM E283 (min. A1 / max. A3)

WATER TIGHTNESS ASTM E547 (min. B1 / max. B7)

WIND LOAD RESISTANCE ASTM E330 (min. C1 / max. C5)

FORCED ENTRY RESISTANCE ASTM F 588 (max. F10)

PICTURE WINDOWS	CASEMENT WINDOWS	AWNING WINDOWS	DOUBLE HUNG WINDOWS
25	24	24	13
36	28	28	n/a
38	30	30	n/a
42	32	32	n/a

PICTURE WINDOWS	CASEMENT WINDOWS	AWNING WINDOWS	DOUBLE HUNG WINDOWS
0.28	0.29	0.29	0.36
0.21	0.22	0.22	n/a
0.20	0.21	0.21	n/a
0.18	0.19	0.19	n/a

PICTURE WINDOWS	CASEMENT WINDOWS	AWNING WINDOWS	DOUBLE HUNG WINDOWS
FIXED	A3	A3	A2
B7	B7	B7	B4
C5	C4	C4	C3
FIXED	F10	F10	F10

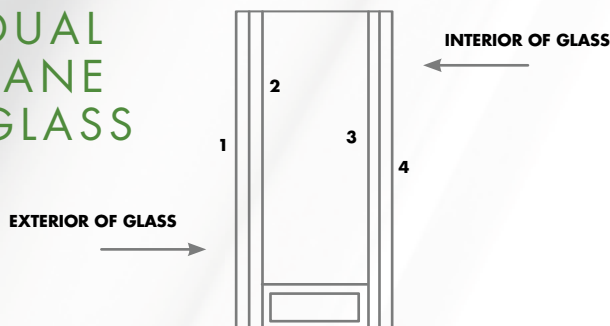
INSULATED GLASS UNIT OPTIONS & DATA



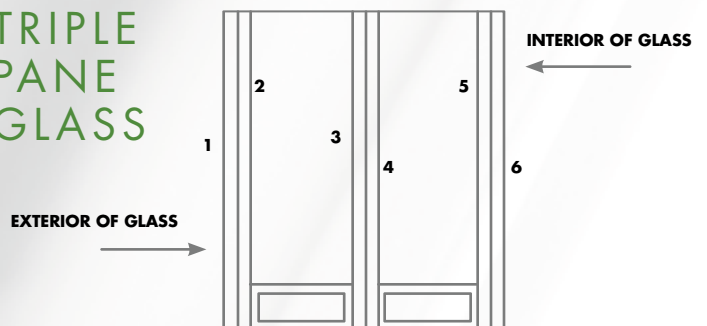
TWO PANE UNITS (Dual Pane 3/4" O.D.)	VISIBLE LIGHT			SHGC	CENTER OF GLASS		COMFORT		
	Trans. %	Reflectance			U-VALUE		Indoor Glass Temp. (C°/F°)		
		% Out	% In						
			Air		Argon	Winter	<->	Summer	
CLEAR / CLEAR	82%	15%	15%	0.78	0.48	0.46	7/44	<->	32/90
GREEN TINTED / CLEAR	75%	13%	14%	0.60	0.48	0.46	7/44	<->	32/94
BRONZE TINTED / CLEAR	61%	10%	13%	0.62	0.48	0.46	7/44	<->	43/94
GREY TINTED / CLEAR	53%	9%	13%	0.57	0.48	0.46	7/44	<->	36/96
LOW E2- 272 (#2) / CLEAR	72%	11%	12%	0.41	0.30	0.25	13/56	<->	29/84
GREEN TINTED / LOW E2- 272 (#3)	66%	10%	10%	0.42	0.30	0.25	13/56	<->	36/96
BRONZE TINTED / LOW E2- 272 (#3)	54%	8%	10%	0.39	0.30	0.25	13/56	<->	36/96
GREY TINTED / LOW E2- 272 (#3)	50%	8%	9%	0.38	0.30	0.25	13/56	<->	36/96
LOW E3 - 366 (#2) / CLEAR	65%	11%	12%	0.27	0.29	0.24	13/56	<->	28/82
GREEN TINTED / LOW E3 - 366 (#3)	59%	10%	10%	0.35	0.29	0.24	13/56	<->	38/100
BRONZE TINTED / LOW E3 - 366 (#3)	48%	8%	10%	0.31	0.29	0.24	13/56	<->	37/99
GREY TINTED / LOW E3 - 366 (#3)	45%	8%	10%	0.29	0.29	0.24	13/56	<->	37/99
LOW E2 - 240 (#2) / CLEAR	40%	14%	10%	0.25	0.30	0.26	12/54	<->	30/86

THREE PANE UNITS (Triple Pane 1 3/8" O.D.)	VISIBLE LIGHT			SHGC	CENTER OF GLASS		COMFORT		
	Trans. %	Reflectance			U-VALUE		Indoor Glass Temp. (C°/F°)		
		% Out	% In						
			Air		Argon	Winter	<->	Summer	
CLEAR / CLEAR / CLEAR	76%	21%	21%	0.70	0.31	0.29	12/54	<->	33/92
GREEN TINTED / CLEAR / CLEAR	69%	18%	20%	0.54	0.31	0.29	11/53	<->	34/94
BRONZE TINTED / CLEAR / CLEAR	56%	13%	19%	0.55	0.31	0.29	11/53	<->	34/94
GREY TINTED / CLEAR / CLEAR	52%	12%	19%	0.54	0.31	0.29	11/53	<->	34/94
LOW E2- 272 (#2) / CLEAR / CLEAR	66%	15%	18%	0.38	0.22	0.19	15/59	<->	29/85
GREEN TINTED / CLEAR / LOW E2- 272 (#5)	60%	16%	15%	0.39	0.21	0.18	15/59	<->	36/96
BRONZE TINTED / CLEAR / LOW E2- 272 (#5)	49%	12%	14%	0.36	0.21	0.18	15/59	<->	36/96
GREY TINTED / CLEAR / LOW E2- 272 (#5)	45%	11%	14%	0.35	0.21	0.18	15/59	<->	36/96
LOW E3- 366 (#2) / CLEAR / CLEAR	59%	14%	18%	0.25	0.21	0.19	16/60	<->	28/82
GREEN TINTED / CLEAR / LOW E3- 366 (#5)	54%	15%	14%	0.33	0.21	0.18	16/60	<->	38/100
BRONZE TINTED / CLEAR / LOW E3- 366 (#5)	44%	12%	14%	0.29	0.21	0.18	16/60	<->	37/99
GREY TINTED / CLEAR / LOW E3- 366 (#5)	41%	11%	13%	0.28	0.21	0.18	16/60	<->	37/99
LOW E2 - 240 (#2) / CLEAR / CLEAR	37%	16%	17%	0.23	0.22	0.19	15/59	<->	29/85
LOW E2- 272 (#2) / CLEAR / LOW E2- 272 (#5)	58%	13%	13%	0.35	0.16	0.13	17/63	<->	34/93
LOW E3- 366 (#2) / CLEAR / LOW E2- 272 (#5)	52%	13%	13%	0.25	0.16	0.12	17/63	<->	31/87
LOW E3- 366 (#2) / CLEAR / LOW E3- 366 (#5)	47%	13%	13%	0.24	0.15	0.12	17/63	<->	33/91
LOW E2 - 240 (#2) / CLEAR / LOW E2 - 272 (#5)	32%	15%	12%	0.21	0.16	0.13	17/63	<->	31/88
LOW E2 - 240 (#2) / CLEAR / LOW E3 - 366 (#5)	29%	15%	12%	0.18	0.16	0.12	17/63	<->	33/91

DUAL PANE GLASS



TRIPLE PANE GLASS



INSULATING GLASS TERMS

Argon Gas is an inert, non toxic, non dynamic gas that is placed in insulated glass cavities in order to improve the insulating value of the sealed unit.

Conduction is the transfer of heat through a solid material such as PVC, aluminium, wood or glass through direct contact. Heat flows from a higher temperature area to a lower temperature.

Condensation is the accumulation of water vapour as the result of warm, moist air coming in contact with a cold surface. Low E glass and warm edge spacer bars help to reduce condensation.

Convection is the flow of heat through a circulating gas or liquid. Convection occurs in the airspaces of an insulating glass unit. Low E in conjunction with argon gas lessens cold convection by maintaining warmer interior glass-surface temperatures.

Low E Glass is a thin, virtually invisible coating of metallic oxide layers deposited on a window glazing surface and sealed in an insulated glass unit to reduce the U factor by suppressing heat flow through the window system.

R-Value is a measure of a window or door's ability to resist the transfer of thermal energy, A high R value has greater resistance to heat flow. The inverse of this is U – Value. Thus a lower U – Value is better and provides greater insulating value.

Solar Heat Gain Coefficient (SHGC) is defined as the fraction of solar radiation transmitted through a window or door. It is expressed as a percentage. The lower a window's SHGC the less solar heat it transmits and the greater it's shading capability.

Visible Light Transmittance (VLT) is the amount of visible light transmitted through an insulated glass unit. It is generally expressed as a percentage.

Insulated glass units are available in double or triple. There are a number of different types of glass options. These include Low E, grey tint, bronze tint, green tint, bronze reflective and a variety of different types of obscure glass.

If you are requiring a particular type of window or door with a certain type of glass option please contact our office.

SUMMARY OF PRODUCT WARRANTY

Effective May 1, 2008

25 years

PVC Window Frames and Sash

20 years

Insulated Glass Units,
Fibreglass Door Panels

10 years

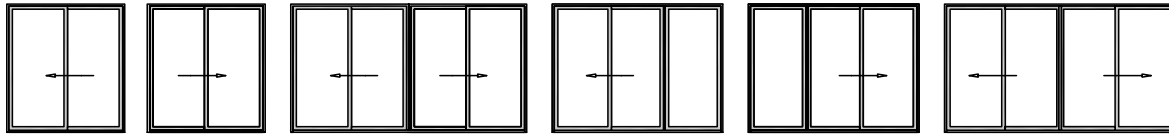
Window Hardware,
Steel Door Panels,
Aluminium Extrusions

2 years

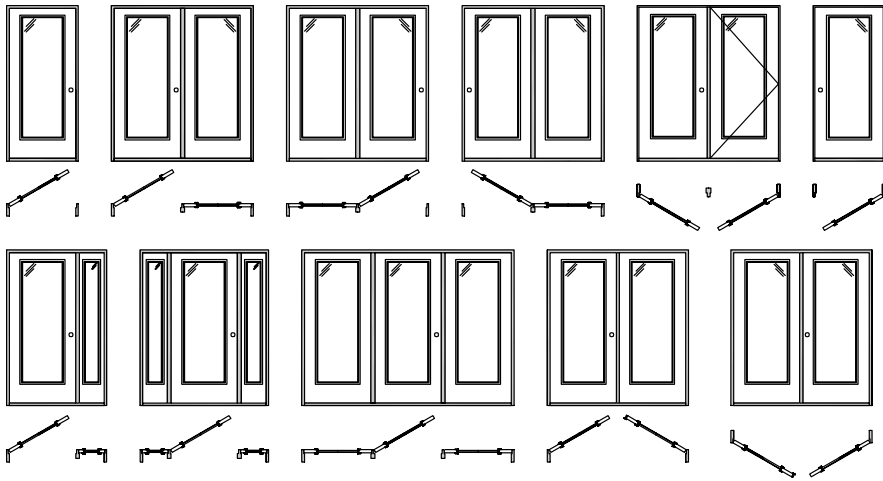
Labor inclusive on all products

TYPICAL DOOR STYLES

PATIO DOOR SLIDING



SWING DOORS



WINDOW AND DOOR PRODUCT LINE

WINDOW STYLE	PVC	CLAD WOOD	ALL WOOD
Casement	✓	✓	
Awning	✓	✓	
Fixed	✓	✓	
Picture	✓	✓	
Fixed Transom	✓	✓	
Picture Transom	✓	✓	
Vertical sliders	✓	✓	
Horizontal Sliders	✓	Not Available	Not Available
Bay and Bow	✓	✓	
Shaped	✓	✓	
Patio Door Slide	✓	✓	
Swing Doors	✓	✓	

Paramount also offers a complete line of aluminium storm doors, skylites and custom millwork products.