



IMAGINE THE POSSIBILITIES

# DREAM BIG.

www.duxtonwindows.com



Enhancing the Human Environment

Whether you are building a new home, replacing a large opening, or doing an addition, an expansive view has lots of impact. Maximize your views by choosing slim frames and minimal divisions in the glass.

➤ Find more about FiberWall™ at [duxtonwindows.com/products/windows/fiberwall-fixed](https://duxtonwindows.com/products/windows/fiberwall-fixed)

*FiberWall™ Series with Triple Pane Glass, shown in Black Exterior, White Interior  
Photos courtesy of h5architecture*



Custom Orange and Black Entry Door with  
Multi-Point Lock and Stainless Steel Accent.  
Oxbow Architecture, Saskatoon, SK.



## INVITING COLOURS.

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White is out and colour is in!  
Accent your home in any  
colour imaginable.

Consider natural colours such as Espresso, Slate, and Almond, and bold colours such as Silver Mist and Black for more architectural impact. On the front entrance, be bold, with saturated orange, green, red, or yellow hues.

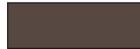
*FiberWall™ Series in Black. Christian Dean  
Architecture and Heritage Window & Door,  
Minnesota, USA.*

STANDARD

White



Espresso



SELECT

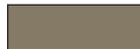
Almond



Slate



Brownstone



Black



PREMIUM

Charcoal



Chestnut Brown



Cranberry Zing



Cranberry



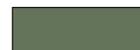
Brick Red



Cedar



Sage Green



Evergreen



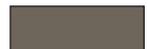
Steel Blue



Midnight Blue



Bronze



METALLIC

Silver



Colours may not appear exactly as shown.



DESIGN TIP: RICH INTERIOR COLOUR

Consider a richer interior colour rather than simply white. An Espresso coloured frame with a Pacific Coast Hemlock (PCH) real wood jamb is a combination of standard options, but looks anything but standard. This can beautifully replace wood windows in a renovation, and create a natural warmth and texture in a new home.

LEFT Espresso interior with Pacific Coast Hemlock (PCH) stained wood jamb



# YEAR-ROUND COMFORT



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Replace drafty, tired wood or aluminum windows with low maintenance, energy efficient fiberglass windows.

Almond coloured triple pane casements with SDLs (simulated divided lites, or surface-applied grills). Opt for a casement, which is a compression seal, over a slider where possible, for the best air tightness.



## DESIGN TIP: SELECT THE RIGHT GLASS

Pair a well-insulated frame with triple pane glass, and be sure to ask for Low-E coating options, including a mid-range LoE272, a LoE366 to prevent overheating, or conversely a LoE180 to allow for passive solar gain.

▶ Find more about glass at [duxtonwindows.com/insulating-glass](https://www.duxtonwindows.com/insulating-glass)

Bring the outside in, with ever larger walls of glass and clear openings. Consider a robust Ultra Sliding Door, a FiberWall™ wall of glass with the option of adding a swinging door, or even a Bi-Folding Door.



### DESIGN TIP: DREAM DOORS

Our Ultra Sliding Doors feature industry-leading size capabilities in triple pane glass. All doors are **custom built** to fit your opening.

- Extra Tall Panels: 3.5' x 10' in a 4-Panel (14' x 10' overall)
- Extra Wide Panels: 5.5 x 6.5' in a 2-Panel (11' x 6.5' overall)
- Extra Large Clear Opening: 8.5' clear opening in a 4-Panel (18' x 8' overall)



# INDOOR-OUTDOOR LIVING



▲ FROM TOP *FiberWall™ Wall of Glass in a custom home; Bi-Folding Door – Habitat Studio, Edmonton*



- ▶ *RIGHT Designer Collection with Custom Cut-Outs, shown in Espresso*
- ▼ *FROM TOP Designer Collection with Stainless Steel Accents, shown in Slate; Craftsman Fir Collection with a Dentil Shelf*



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MAKE AN ENTRANCE



BEFORE

*Standard Collection 3/4 Lite Door with Full Glass Panel Sidelites, shown in Custom Red*

A statement entrance not only adds curb appeal, it creates a unique welcoming point for guests to enter your home.

It is one of the best opportunities to make the home distinctly your own; whether it's a rich woodgrain, a towering size; a bright pop of colour; or a creative design.



# RENEW & REFRESH

Whether you are looking to simply refresh the look of your home, or take on a large-scale remodeling, fiberglass windows give you full flexibility to achieve that look.

Partner with an experienced window and door installer for excellent guidance, fast execution, and the highest quality installation.



## DESIGN TIP: WIDE OPEN SPACES

Make an impact by enlarging the opening, and installing bigger windows or doors. This can be very effective in brightening the room and making it feel more spacious. It also gives you more flexibility in selecting your product if your opening is too narrow or too short for your new design.



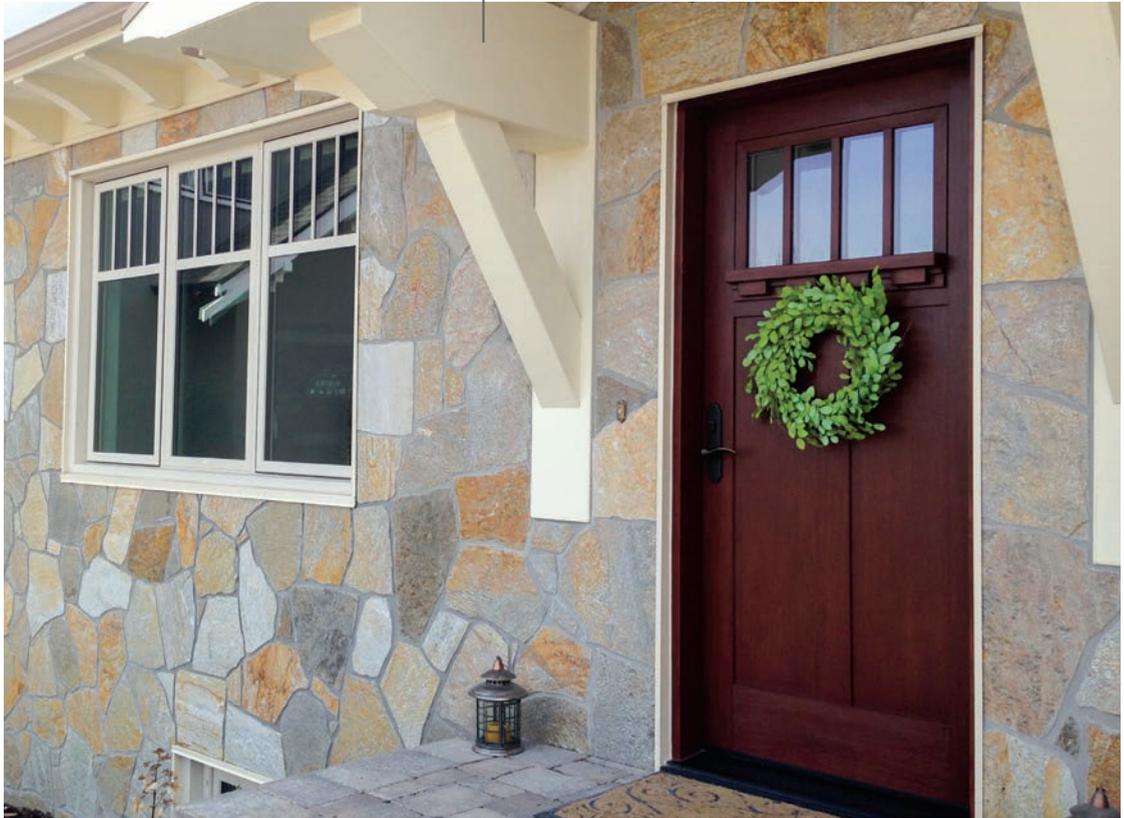
**BEFORE**

- ▼ **BELOW** *Black fiberglass windows and doors, including an enlarged opening on the patio, to accommodate a Series 600 Sliding Door and matching FiberWall™ 458 Sidelites. Installed by Shield Windows & Doors, Edmonton, AB.*



**AFTER**

# CLASSIC STYLE



Fiberglass Windows can blend seamlessly into classic or heritage homes.

With full colour flexibility, elegant frames, wood interiors, and flexible grill styles, you can replicate the original look, and still benefit from the modern-day technology of triple pane glass and low-maintenance finishes.

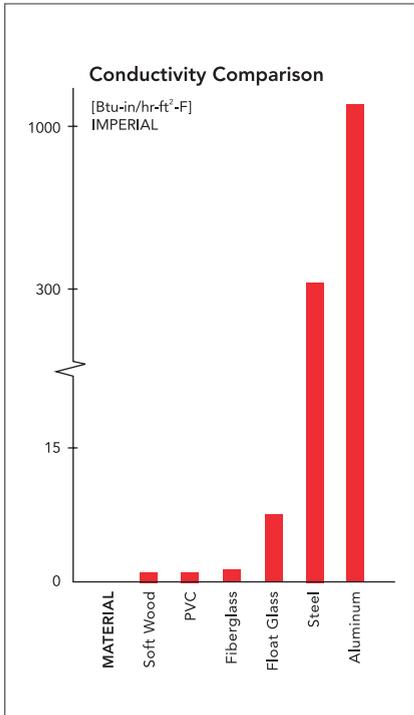


- ◀ **OPPOSITE PAGE** Casements and matching Hi Profile Fixed Windows with Triple Pane Glass, shown in Almond exterior with 7/8" vertical grills and 2" horizontal grills
- ▶ **RIGHT** Fixed over Awning Windows with Triple Pane Glass, shown in Black with custom diamond grills
- ▼ **FROM TOP** Double Hung Window with the original restored leaded glass, shown in a real wood-wrapped fiberglass frame; Casements and matching Hi Profile Fixed Windows with Triple Pane Glass, shown in Almond exterior with 7/8" vertical grills and 2" horizontal grills

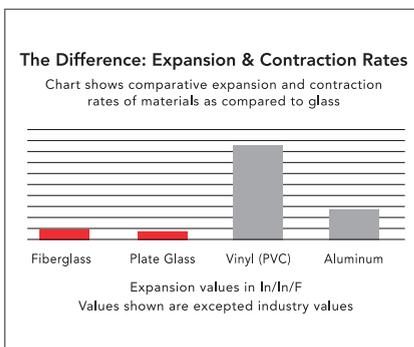


# WHY FIBERGLASS?

Image courtesy of LM Architectural Group



## FIBERGLASS STRENGTH - THE DIFFERENCE OF PULTRUSION WINDOWS



Pultruded fiberglass is an engineered material that is created through a process where strands of glass and glass matting are pulled through a heated die. The glass is bonded with resin as it passes through a die at extremely high temperatures. The result is a very strong, stable, insulating material well-suited to windows and doors. Fiberglass lineals are painted with an architectural coating to add any colour to the finished product.

## CONSIDER THE ADVANTAGES OF PULTRUDED FIBERGLASS:

### STABILITY

The material characteristics of pultruded fiberglass includes very low rates of expansion and contraction. This characteristic provides an excellent advantage in maintaining good seal contact in hot or cold weather due to reduced relative movement of frames, sash and glass relative to each other.

### ENVIRONMENTAL CONSIDERATIONS

Fiberglass features the lowest embodied energy (low energy consumption in lineal production) when compared to other common window frame materials, as well as providing the longest life expectancy.

### STRENGTH

A well-engineered fiberglass window demonstrates vastly superior strength characteristics when compared to other windows, like PVC. Fiberglass supports large insulating glass units, allowing you to create a stunning wall of glass.

### ENERGY EFFICIENCY

Pultruded fiberglass materials have MUCH lower conductivity than materials such as aluminum. Insulated frame and sash components reduce the conductivity, allowing for the creation of some of the most energy efficient details in the world.

### LOW MAINTENANCE

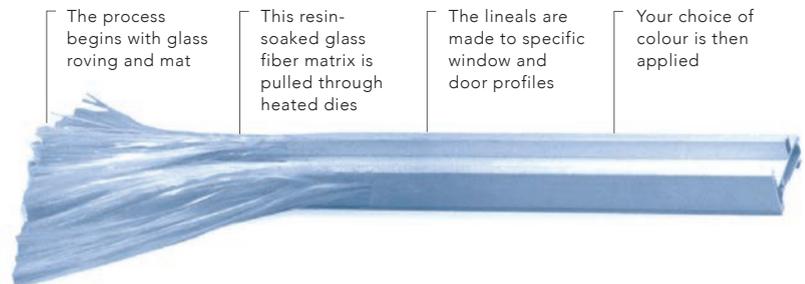
Fiberglass is an extremely stable material that does not rot or require regular maintenance like wood.

### NON-CORROSIVE CHARACTERISTICS

The non-corrosive characteristic of the material is an advantage when considering coastal applications.

### ANY COLOUR, INSIDE AND OUT

Architectural coatings can be applied in ANY colour, on the interior and exterior.



# ACCESSORIES

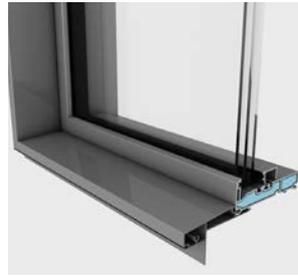
## PERIMETERS

Select from a variety of aluminum perimeters, which are attached to the exterior of the frame for installation purposes.



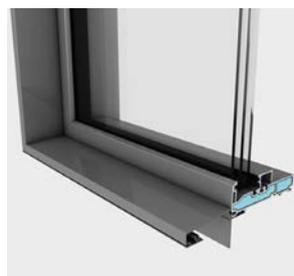
### **NARROW**

Simple, slim, most common choice of nailing fin



### **NEW WIDE**

Nailing fin that sets the window deeper into the wall, creating elegant shadow lines



### **250 PANNING**

Nailing fin that protrudes outwards 2 1/2" to accommodate rigid insulation or other finishing exterior details such as brick

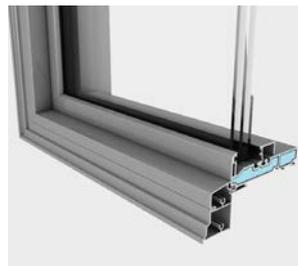


### **350 PANNING**

Nailing fin that protrudes outwards 3 1/2" to accommodate rigid insulation or other finishing exterior details such as brick

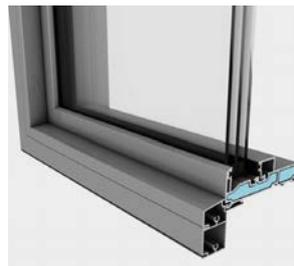
## BRICKMOULDS

Select from a variety of aluminum brickmoulds, used in renovation projects to cover installation screws, or to emphasize the windows by outlining the frame.



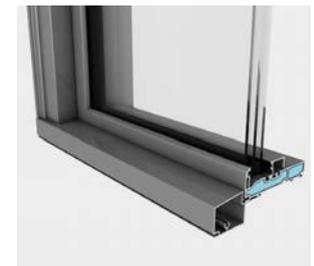
### **PROFILED**

Capping piece with elegant shadow lines that mimic millwork



### **FLAT**

Capping piece with simple, clean lines



### **PROFILED WITH SILL PERIMETER**

Mimics original wood windows, with a Sill Perimeter on the bottom, and Narrow Perimeter with Profiled or Flat Brickmould on three sides.

# PERFORMANCE VALUES

## INSULATING GLASS PERFORMANCE VALUES

Glass type	Application	Gas	Centre		Overall Window			Energy Star	
			R-Value (cog)	R-Value	U-Value	Heat Gain	Visible Light	ER	Zone (CA)
Dual Pane									
Cardinal LoE-180	High Solar Gain	Argon	3.85	3.57	0.28	0.61	70%	39	1 2 3
Cardinal LoE-272	Mid-Range	Argon	4.00	3.70	0.27	0.36	63%	27	1
Cardinal LoE-366	Low Solar Gain	Argon	4.17	3.70	0.27	0.24	57%	21	1
Triple Pane - 1 LoE Coating - High Performance									
Cardinal LoE-180	High Solar Gain	Argon	5.56	5.00	0.20	0.54	64%	44	1 2 3
Cardinal LoE-272	Mid-Range	Argon	5.26	4.76	0.21	0.34	58%	33	1 2 3
Cardinal LoE-366	Low Solar Gain	Argon	5.56	5.00	0.20	0.22	52%	28	1 2 3
Triple Pane - 2 LoE Coatings - Ultra High Performance									
Cardinal LoE-180/180	High Solar Gain	Argon	7.69	6.25	0.16	0.50	61%	48	1 2 3
Cardinal LoE-272/180	Mid-Range	Argon	7.69	6.45	0.16	0.33	56%	39	1 2 3
Cardinal LoE-272/272	Mid-Range	Argon	7.69	6.67	0.15	0.31	50%	38	1 2 3
Cardinal LoE-366/180	Low Solar Gain	Argon	7.69	6.67	0.15	0.22	50%	34	1 2 3
Cardinal LoE-366/366	Low Solar Gain	Argon	8.33	6.67	0.15	0.21	41%	33	1 2 3

Performance Values reflect FiberWall™ Series 328FX and are calculated by certified 3rd party labs. Information is gleaned from best available industry sources. The reader is cautioned that test results should be used for comparison purposes only. Results are size and installation dependent. In-service performance can be significantly different from those shown. Product tested indicates design potential. Model size was 1200 mm x 1500 mm, with no thermal breaks, which are not required in fiberglass frames due to the lower relative conductivity compared to aluminum.

### DUXTON LIMITED WARRANTY

The strength of pultruded fiberglass leads to a high level of confidence backed by a **Limited 20 Year Warranty** on the frame components and typically 20 years on the insulating glass.

Hardware and other components are also backed by confident warranties and after sales service.

# HEALTHY PLANET

DUXTON Windows & Doors is proud to announce a full line of Living Building Challenge approved products, a rigorous performance standard that seeks to encourage sustainable designs and a healthy built environment. Products are manufactured to avoid the “Red List” or unhealthy building materials, including Polyvinyl Chloride (PVC).

Whether you are aiming for a Net Zero, Passive House, Living Building Challenge, or simply excellent levels of energy performance, DUXTON is proud to support cutting-edge projects that will stand the test of time, and set the groundwork for future generations.

- ▶ Find whole window U-Values at [duxtonwindows.com/resources](http://duxtonwindows.com/resources) under *Performance Values*



▶ RIGHT Riverdale NetZero Project by Habitat Studio, Edmonton, AB





## ABOUT US.

*FiberWall™ Series with Triple Pane Glass, shown in Silver Mist interior in Saskatoon, SK.*



## ENHANCING THE HUMAN ENVIRONMENT.

DUXTON Windows & Doors is a Winnipeg based family business, dedicated to the creation of beautiful, high performance windows and doors. We create the finest selection of fiberglass windows and doors using only the best possible materials and components.

DUXTON creates its unique range of products through a dedication to innovation. A full range of high performance glass features a warm-edge stainless steel spacer and argon-filled cavities, in configurations from dual to triple, to even quad pane glass.



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