

# Pella® Impervia®

Fiberglass windows and patio doors

## Exceptional durability

Achieve commercial grade strength and lasting durability for your customers' long-term return on investment.

- Our proprietary fiberglass is the strongest fiberglass material for windows and patio doors.<sup>1</sup>
- Our fiberglass has, on average, 1.8x the tensile strength of conventional fiberglass.<sup>2</sup>
- Powder-coat finish meets AAMA 624, the highest-rated fiberglass coating among leading national competitors.
- The baked on powder-coat finish resists chalking and fading and is more durable than conventional paint.
- Added strength, durability and reliable water performance including a durable three-way corner joint.

## Glazing flexibility

Pella Impervia products are available with a variety of glazing options.

- Optional sound control and triple glazing for casement, awning and direct set windows.
- Optional louvers and spandrel.
- Available in large sizes with sleek profiles and more glass.
- Available with extruded aluminum grilles that are adhered to both sides of the insulating glass to provide the look of an aluminum storefront with the energy efficiency of fiberglass.<sup>3</sup>

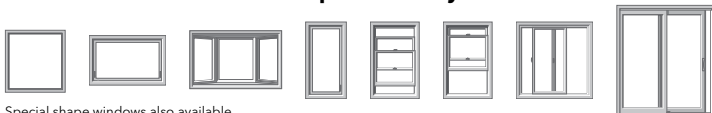
## Engineered structure

We offer several engineered options so you can meet the unique needs of your project.

- Fully factory joined or factory prepared joining kits for full flexibility in design and jobsite coordination.
- Structured mulls for commercial buildings are verified through rigorous engineering evaluation and testing to ensure your products are built to last.



Available in these window and patio door styles:



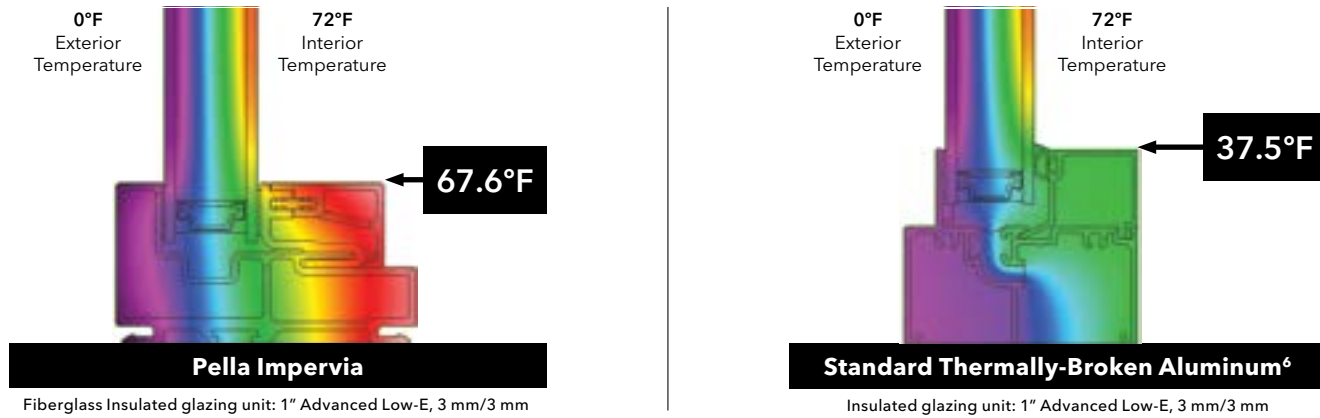
Special shape windows also available.

<sup>1,2,3</sup> See back cover for disclosures.



COMMERCIAL

## Pella® Impervia® vs. Aluminum



### Commercial performance.

Engineered to meet the rigorous specification and performance requirements of a commercial building, Pella Impervia products provide outstanding resistance to water, wind and outside noises.<sup>4</sup> Pella Impervia windows and patio doors offer an incredible value for water and structural performance, energy efficiency and cost-effectiveness. Our engineers perform an engineering review of proposed windows and doors to verify performance requirements are met.

### Commercial installation systems and support.

Our exclusive installation methods help save you time and reduce costly callbacks. From the latest construction trends in new buildings to existing buildings needing retrofits, we provide a comprehensive array of installation solutions and accessories to meet most low- to mid-rise commercial project requirements. And with our dedicated team of engineers, architects, drafters and installation experts, we are ready to collaborate with you, from initial concept to punch list.

### Confidence of a strong warranty.<sup>5</sup>

We know your reputation matters and we're committed to doing things right - even if it means doing things a little differently. So we stand behind our products with some of the strongest warranties in the business.

## Glass & Additional Energy Efficiency Upgrades

### InsulShield® Low-E Glass<sup>7</sup>

Pella Impervia products offer energy-efficient options that will meet or exceed ENERGY STAR® guidelines in all 50 states.<sup>8</sup>



Advanced Low-E insulating dual- or triple-pane glass with argon



Advanced Comfort Low-E insulating dual-pane glass with argon

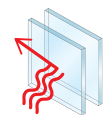


Natural Sun Low-E insulating dual- or triple-pane glass with argon

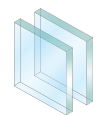


SunDefense™ Low-E insulating dual- or triple-pane glass with argon

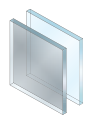
### Additional Glazing Options



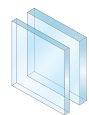
Clear insulating glass



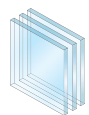
Tempered glass



Tinted<sup>9</sup> or obscure glass available on select products



STC (Sound Transmission Class)-improved dual-pane and laminated (non-impact resistant)<sup>10</sup>, sound control glass<sup>11</sup>



Triple-pane<sup>12</sup>, available krypton-filled for Passive House applications



Insulated metal panels



Louvers



Spandrel Glass

### Foam Insulation Options

Optional foam-insulated frame and sash are available to increase energy efficiency.

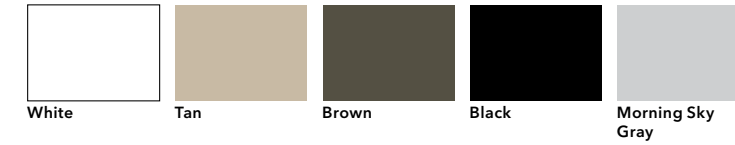
<sup>5, 6, 7, 8, 9, 10, 11, 12</sup> See back cover for disclosures.

## Colors & Finishes

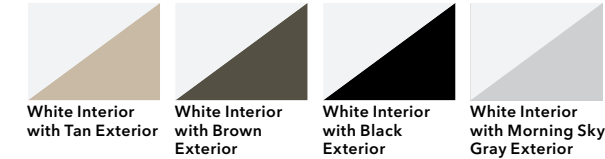
### Frame Colors

Dual-color frames allow you to choose a different color for the exterior of your project with a White interior. Our long-lasting powder-coat finish resists chipping and fading and meets AAMA 624, which is the highest rated fiberglass coating among leading national competitors.

#### Solid-Color:



#### Dual-Color:



## Window Hardware

### Casement & Awning

Introducing the Easy-Slide Operator – a patent-pending, revolutionary way to operate casement and awning windows. Simply slide to open, without the effort of cranking. With precision venting technology, the window will open to an exact location. Or select the fold-away crank, that folds neatly away, against the window frame. Neither solution will interfere with roomside window treatments.



Easy-Slide Operator



Fold-Away Crank

#### Color-Matched Finishes:



#### Additional Finish<sup>13</sup>:



### Sliding, Single & Double-Hung

Pella's cam-action lock pulls the sashes against the weatherstripping for a tighter seal.

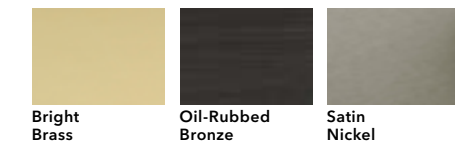


Cam-Action Lock

#### Color-Matched Finishes:

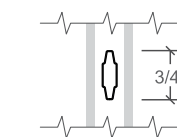


#### Additional Finishes:

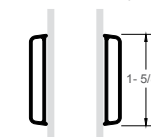


## Grilles

Grilles are color-matched to window or patio door interior and exterior frame color.



Aluminum Grilles-Between-the-Glass <sup>14</sup> 3/4"



Applied Grilles<sup>15</sup> 1- 5/8"

<sup>13, 14, 15</sup> See back cover for disclosures.

## Patio Door Hardware

### Sliding Patio Door

Open and close the door with one hand with a convenient thumblock.



Sliding Patio Door Handle

#### Color-Matched Finishes:



White



Tan



Brown



Matte Black



Morning Sky Gray

#### Additional Finishes:



Bright Brass



Oil-Rubbed Bronze



Satin Nickel



Antique Brass



Chrome

### Footbolt

A footbolt comes standard on all sliding patio doors and can hold the door open about three inches for ventilation.

## Product Specifications

Window & Patio Door Styles	Min. Width	Min. Height	Max. Width	Max. Height	Performance Class & Grade	Performance Values			Frame/Install
						U-Factor	SHGC	STC	
Vent Awning	20"	17-1/2"	59-1/2"	59-1/2"	LC50	0.18-0.48	0.16-0.55	29-37	Block Frame, Standard Fin, Off-set Fin, Integral Fin
Fixed Awning	13-1/2"	11-1/2"	71-1/2"	79-1/2"	LC50	0.16-0.49	0.18-0.63	28-36	
Vent Casement	17-1/2"	20"	37-1/2"	79-1/2"	LC40-LC50	0.26-0.45	0.18-0.55	25-32	
Fixed Casement	13-1/2"	11-1/2"	71-1/2"	79-1/2"	LC45-LC50	0.22-0.48	0.20-0.62	27-33	
Vent Double-Hung	17-1/2"	29-1/2"	47-1/2"	77-1/2"	LC30-LC50	0.25-0.49	0.19-0.58	26-29	
Vent Single-Hung	17-1/2"	23-1/2"	47-1/2"	77-1/2"	LC40-LC50	0.24-0.51	0.19-0.59	26-32	Block Frame, Standard Fin, Off-set Fin, Integral Fin, Flush Frame
Sliding Window (OX, XO)	23-1/2"	11-1/2"	71-1/2"	71-1/2"	LC30-LC50	0.25-0.50	0.19-0.59	26-33	
Sliding Window (XOX)	47-1/2"	17-1/2"	107-1/2"	71-1/2"	LC30-LC50	0.25-0.50	0.19-0.59	26-32	
Fixed Sash and Frame	13-1/2"	13-1/2"	71-1/2"	71-1/2"	CW35-CW50	0.22-0.50	0.20-0.62	27-33	
Fixed Frame Direct Set	11-1/2"	11-1/2"	143-1/2"	143-1/2"	CW50	0.14-0.46	0.18-0.69	28-36	Block Frame, Standard Fin, Off-Set Fin, Block Frame
Sliding Patio Door (One Panel)	27"	71-1/2"	49"	95-1/2"	LC30-LC50	0.25-0.48	0.19-0.61	27-32	
Sliding Patio Door (Two Panel)	47-1/2"	71-1/2"	95-1/2"	95-1/2"	LC30-LC50	0.25-0.48	0.19-0.61	27-32	

Window sizes available in 1/8" increments

Maximum square footage rules apply. Maximum width and height cannot exceed the maximum square footage. Special shapes available.

Interested in learning more? For additional information, visit [pellacommercial.com](http://pellacommercial.com).

<sup>1</sup> Pella's proprietary fiberglass material has displayed superior strength over wood, vinyl, aluminum, wood/plastic composites, and other fiberglass materials used by leading national brands in tensile and 3-point bend tests performed in accordance with ASTM D638 and D790 testing standards.

<sup>2</sup> Tensile testing performance based on testing 7 samples of each material using ASTM D638 test methodology.

<sup>3</sup> Not available on special shapes.

<sup>4</sup> Pella® Impervia® windows and patio doors have a performance class of LC or higher. For information on product ratings see [www.pella.com/performance](http://www.pella.com/performance).

<sup>5</sup> See written limited warranties for complete details, including exceptions and limitations, at [pella.com/warranty](http://pella.com/warranty), or contact Pella Customer Service at 877-473-5527.

<sup>6</sup> Based on a simulation created with THERM 7.4.3 and WINDOW 7.4.6

<sup>7</sup> Optional high-altitude Low-E insulating glass available with or without argon on select products.

<sup>8</sup> Some Pella products may not meet ENERGY STAR® guidelines in Canada. For more information, contact your local Pella sales representative or go to [energystar.gc.ca](http://energystar.gc.ca).

<sup>9</sup> Available with Advanced Low-E insulating glass with argon with bronze, gray or green tint on select products.

<sup>10</sup> For best performance, the laminated glass may be in the interior or exterior pane of the insulating glass, depending on the product.

<sup>11</sup> Sound control glass consists of dissimilar glass thickness (3mm/5mm or 5mm/3mm).

<sup>12</sup> Available on direct set, awning and casement windows. Not available with Advanced Comfort Low-E glass.

<sup>13</sup> Only available for fold-away crank.

<sup>14</sup> Appearance of exterior grille color may vary depending on the Low-E insulating glass selection.

<sup>15</sup> Available on direct set windows only.