

## Patio Door Hardware

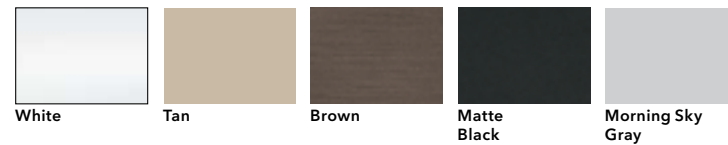
### Sliding Patio Door

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



Sliding Patio Door Handle

#### Color-Matched Finishes:



#### Additional Finishes:

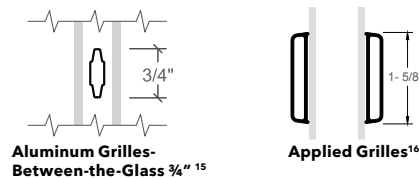


### Footbolt

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

### Grilles

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



Aluminum Grilles-Between-the-Glass <sup>15</sup>

Applied Grilles<sup>16</sup>

<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> Impact testing performance based on testing 10 samples of each material using ASTM D256, Method C.

<sup>3</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>4</sup> In testing performed in accordance with ASTM testing standards, Pella's fiberglass has displayed superior performance in strength, ability to withstand extreme heat and cold and resistance to dents and scratches. Special shape windows are made from a fiberglass resin material.

<sup>5</sup> See written limited warranty for details, including exceptions and limitations, at [installpella.com/warranties](http://installpella.com/warranties)

<sup>6</sup> Tensile testing performance based on testing 7 samples of each material using ASTM D638 test methodology.

<sup>7</sup> 3-point bend testing performance based on testing 10 samples of each material using ASTM D790 test methodology.

<sup>8</sup> Optional high-altitude Low-E insulating glass available with or without argon on select products.

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

<sup>12</sup> Sound control glass consists of dissimilar glass thickness (3mm/5mm or 5mm/3mm).

<sup>13</sup> Available on direct set, awning and casement windows. Not available with Advanced Comfort Low-E glass.

<sup>14</sup> Only available for fold-away crank.

<sup>15</sup> Appearance of exterior grille color may vary depending on the Low-E insulating glass selection.

<sup>16</sup> Available on direct set windows only.

## Unmatched strength and lasting durability

Achieve commercial-grade strength and lasting durability for your customers' long-term return on investment. Pella Impervia products are made from our proprietary fiberglass material, the strongest material for windows and patio doors, engineered for lasting durability.<sup>1</sup>

## Revolutionary hardware

Introducing a revolutionary way to operate casement and awning windows. This patent-pending, Easy-Slide Operator simply slides to open, without the effort of cranking.

# Pella® Impervia®

Fiberglass windows and patio doors

## Sleek profiles and more glass

Create bold designs from sleek profiles and more glass with our intentionally-designed products made from our exceptionally strong proprietary fiberglass.

- **100x more impact resistant<sup>2</sup>**

Pella's fiberglass is 100x more impact-resistant than Andersen's Fibrex windows. You can trust our fiberglass products to stand up to a hammer misfire and other jobsite conditions.

- **Proven performance**

Engineered for the rigorous performance requirements of a commercial building, Pella Impervia products provide outstanding resistance to water, wind and outside noise.<sup>3</sup>

- **Installation solutions and expertise**

With nearly 100 years in business, we've got you covered with products and installation solutions for your exact situation.

- **Exceptional mulling capabilities**

Factory-mulled combinations help save you time on the jobsite. And the superior strength of Pella fiberglass allows you to create larger, unique combinations, made just for your remodel or new construction project.

- **Up-to-date color palette**

Achieve your design style with single-color and dual-color frame options, including Black.

- **Tested beyond requirements**

Tested beyond industry standards and to extremes from -40°F to 180°F, our proprietary fiberglass can handle the most extreme heat and sub-zero cold.<sup>4</sup> Our products are tested beyond industry standards to help ensure less maintenance with fewer callbacks.

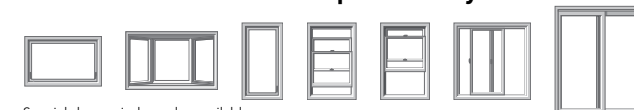
- **Durable three-way corner joints**

For added strength, durability and reliable water performance, Pella Impervia products feature corner locks and sashes injected with sealant and fastened with screws.

- **The confidence of a strong warranty<sup>5</sup>**

We know your reputation matters, so we have one of the strongest warranties in the business.

#### Available in these window and patio door styles:



Special shape windows also available.

<sup>1,2,3,4,5</sup> See back cover for disclosures.



# Delivering unmatched strength, engineered for lasting durability.<sup>1</sup>

Pella's Proprietary Fiberglass vs. Andersen Fibrex<sup>2,6,7</sup>

**Resists dents.**  
**100x**  
more impact-resistant

**Resists bends.**  
**10x**  
stronger

**Resists breaks.**  
**20x**  
the tensile strength

## 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	Block Frame, Standard Fin, Off-Set Fin
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	
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	Block Frame
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.

## Glass & Additional Energy Efficiency Upgrades

**InsulShield® Low-E Glass<sup>8</sup>** Pella Impervia products offer energy-efficient options that will meet or exceed ENERGY STAR guidelines in all 50 states.<sup>9</sup>



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



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

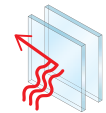


Natural Sun Low-E insulating dual- or triple-pane glass with argon

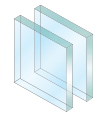


SunDefense™ Low-E insulating dual- or triple-pane glass with argon

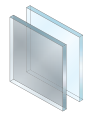
### Additional Glass Options



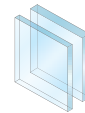
Clear insulating glass



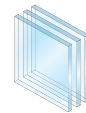
Tempered glass



Laminated (non-impact-resistant)<sup>10</sup>, tinted<sup>11</sup> or obscure glass also available on select products



STC (Sound Transmission Class)-improved dual-pane sound control glass<sup>12</sup>



Triple Pane<sup>13</sup>

**Foam Insulation Options** Optional foam-insulated frame and sash are available to increase energy efficiency.

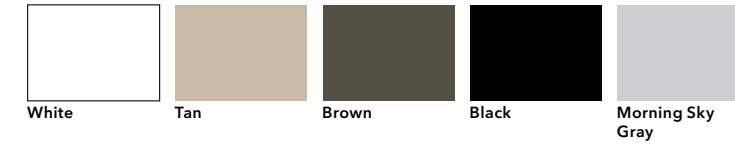
<sup>1,2,4,7,8,9,10,11,12,13</sup> See back cover for disclosures.

## Color & Finishes

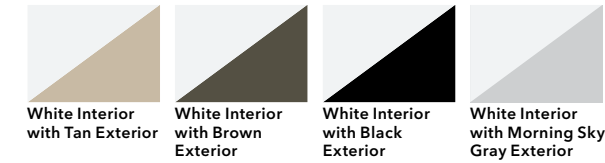
### Frame Colors

Dual-color frames allow your homeowner to choose a different color for the exterior 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

The patent-pending Easy-Slide Operator is a 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

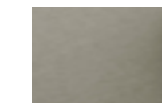


Fold-Away Crank

#### Color-Matched Finishes:



#### Additional Finish<sup>14</sup>:



Satin Nickel

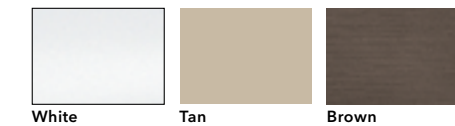
### Sliding, Single & Double-Hung

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



Cam-Action Lock

#### Color-Matched Finishes:



#### Additional Finishes:



<sup>14</sup> See back cover for disclosures.