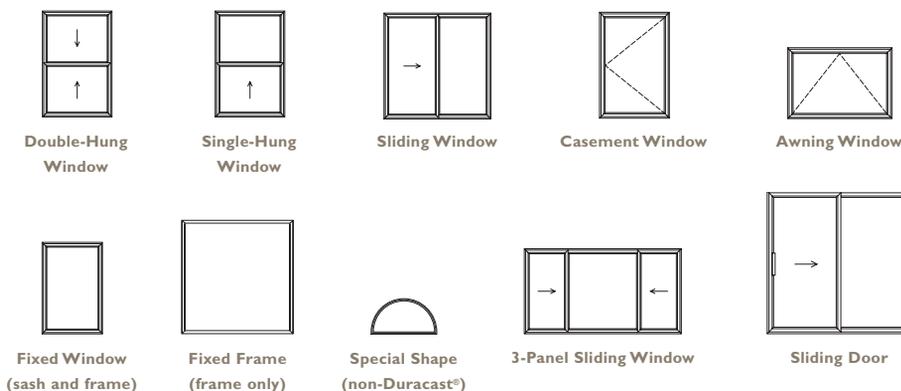




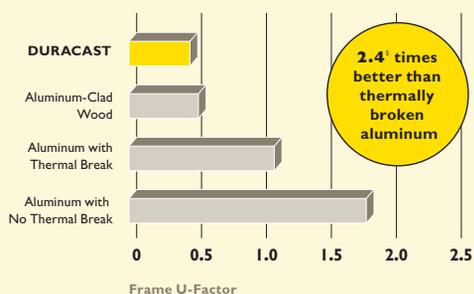
FIBERGLASS COMPOSITE WINDOWS AND DOORS



Alexis Hall, Walsh University, Canton, OH
Mottet and Meadows Architects



Energy Efficiency

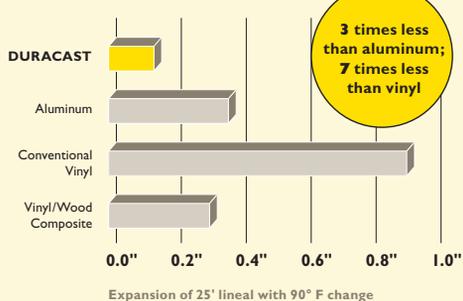


Energy Efficiency

- Unlike aluminum, which is a natural conductor, Duracast offers excellent insulating properties and superior energy efficiency.
- The U-Factor of the Duracast frame is 2.4¹ times better than thermally broken aluminum.
- When compared to thermally broken aluminum, Duracast offers greater resistance to condensation and superior thermal comfort to those seated near windows.



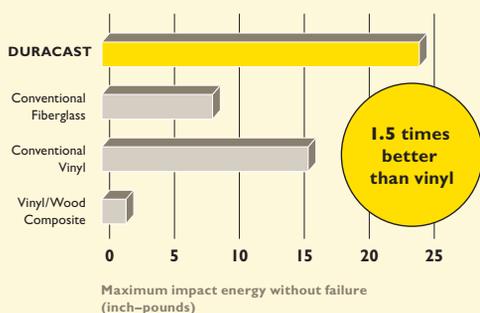
Thermal Expansion



Thermal Expansion

- Unlike vinyl or aluminum, Duracast offers low expansion and contraction rates that help ensure a consistent bond between sash and glass and a weathertight fit between sash and frame.
- Duracast withstands extreme heat (up to 200° F) without warping, sagging or softening — even in dark colors.
- Duracast withstands extreme cold (as low as -40° F), unlike vinyl, which becomes brittle in extreme cold.

Impact Resistance



Impact Resistance

- Duracast withstands major impacts without deformation, especially in cold weather.

Durable Finish

- Duracast features a low-maintenance, factory-applied powder-coat finish that resists chalking and fading — even in dark colors.
- Aluminum is prone to corrosion in seacoast environments.

¹ In testing performed in accordance with ASTM testing standards, Pella's Duracast has displayed superior performance in strength, ability to withstand extreme heat and cold, and resistance to dents and scratches.

² Standard lock hardware is finished in White, Tan or Brown to match the window or door color.

³ Oil-Rubbed Bronze window hardware is a living finish that will develop its own unique patina with use.

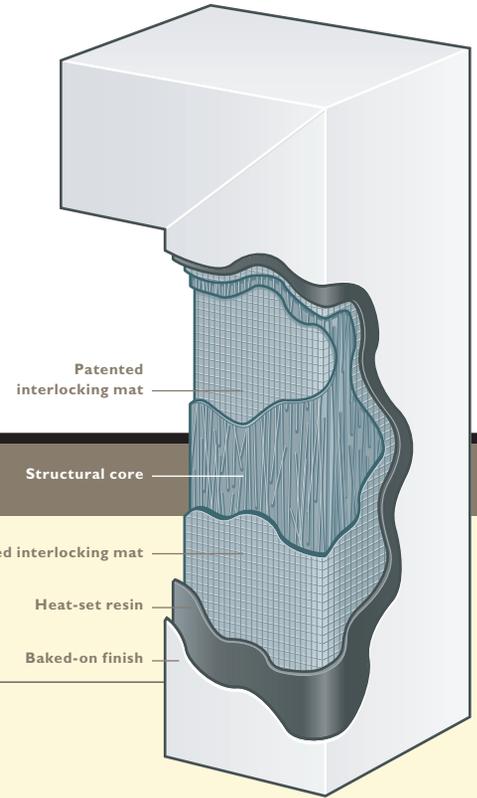
⁴ Warning: Use caution when children or pets are around open windows and doors. Screens are not designed to retain children or pets.

⁵ Optional foam insulation in the frame and sash will further improve the energy efficiency.

PELLA® IMPERVIA® WINDOWS AND DOORS

Pella fiberglass composite windows and sliding doors made from Duracast® offer an advanced alternative for commercial buildings of all types. They ...

- are more durable than aluminum or vinyl.¹
- offer the thermal efficiency of wood.
- are priced competitively with vinyl and aluminum, while offering many performance advantages.
- come in an impressive array of styles, sizes and options to fit your specifications.
- are backed by The Power Of Yellow® — Pella's best-in-class people, products, process and service.



FEATURES AND OPTIONS

Pella Duracast

Pella's patented, five-layer, engineered fiberglass composite withstands extreme weather conditions. Optional foam insulation in the frame and sash further improves energy efficiency.

Color Options



White



Tan



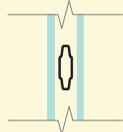
Brown

Glazing Systems

Choose from energy-saving Low-E insulating glass with argon, SunDefense™ Low-E insulating glass with argon, clear insulating glass or obscure privacy glass.

Grilles-Between-the-Glass

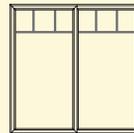
Available in a variety of standard and special patterns. Color matches frame.



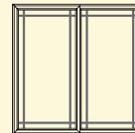
Grille Profile



3/4" Aluminum Grilles-Between-the-Glass



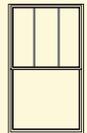
Top Row



Prairie



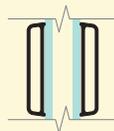
Traditional



Special

Applied Grilles

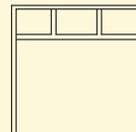
Available on fixed frame windows only. Available in a variety of standard and special patterns. Matches the frame in size and color to offer the look of fixed aluminum windows.



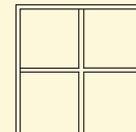
Grille Profile



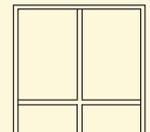
1-5/8" Applied Grilles



Top Row



Equally Divided



Unequally Divided

Hardware²



White



Tan



Brown



Bright Brass



Satin Nickel



Oil-Rubbed Bronze¹

Screens⁴

Fiberglass mesh screens available on venting units.



ADVANCED ALTERNATIVE. LASTING VALUE.®

Outstanding commercial performance.

	Opening Size Range ¹ (W x H)		U-Factor ² (Total Unit)	Solar Heat Gain Coefficient (Total Unit)	Design Pressure (PSF)
	Minimum	Maximum			
Double-Hung Window	1'6" x 2'6"	4'0" x 6'6"	.30	.21	30 – 50 ³
Single-Hung Window	1'6" x 2'0"	4'0" x 7'0"	.29	.21	40 – 50 ³
Sliding Window	2'0" x 1'0"	9'0" x 6'0"	.28	.21	30 – 50
Casement Window	1'6" x 1'8-1/2"	3'2" x 6'8"	.28	.20	45 – 50
Awning Window	1'6-1/2" x 1'6"	5'0" x 5'0"	.29	.20	30 – 50
Fixed Window	1'2" x 1'2"	6'0" x 6'0"	.27	.22	50
Fixed Frame	1'0" x 1'0"	Up to 50 sq. ft. ⁴	.26	.24	50
Sliding Door	4'0" x 6'0"	8'0" x 8'0"	.29	.21	35 – 50
Pella® Fiberglass-Resin (Non-Duracast®) Special Shape Windows ⁵	1'0" x 1'0"	Up to 36 sq. ft. ⁶	.27	.24	30

¹ Sizes are available in 1/4" increments. Size subject to change. (Contact your local Pella representative.)

² Based on SunDefense™ Low-E insulating glass with argon and foam insulated frame and sash.

⁴ Maximum of 9'4" in either height or width.

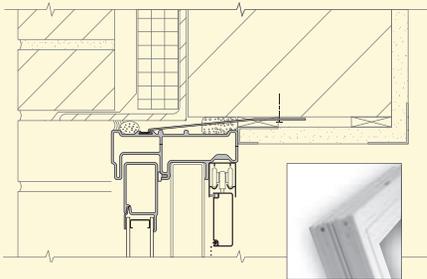
⁶ Maximum of 9'0" in width or 8'0" in height.

³ Some units require an upgrade option to meet this rating.

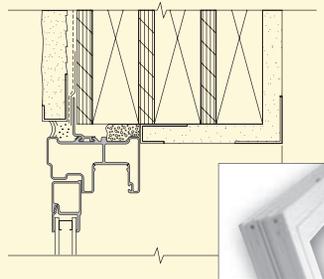
⁵ Size range varies by shape. Reference the

Pella Architectural Design Manual for size range by shape.

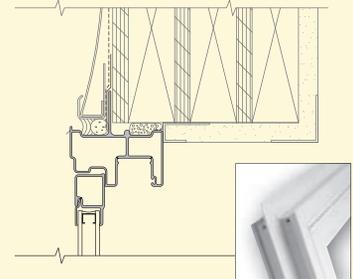
Frame options for every wall condition.



BLOCK FRAME (WITH CLIP ATTACHMENT)
Masonry openings or pocket replacement.



BLOCK FRAME (WITH OFFSET FIN)
Wood framing and stucco.



INTEGRAL NAILING FIN
Wood framing and siding.

Because we're always working to further refine our products and develop new ones, specifications may change without notice.



Always read the Pella Impervia® Limited Warranty before purchasing or installing Pella Impervia products. See Limited Warranty for complete details at <http://warranty.pella.com>.



Pella Corporation is a proud volunteer partner in the Department of Energy's ENERGY STAR® program to promote the use of high-efficiency products.

