PX WINDOWS,
DOORS & MORE

INFORMATIONAL PRODUCT GUIDE

PLASTIXAL
LIFETIME SAFETY

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WHY CHOOSE A PLASTIXAL WINDOWS?

PLASTIXAL WINDOWS AND DOORS - DESIGNED TO SAVE YOU MONEY FROM DAY ONE

WHAT TO LOOK FOR WHEN LOOKING FOR THE BEST PERFORMANCE OF A WINDOW

WHY TRIPLE PANE

EACH GLASS IS 6MM + ARGON GLASS COMBINED WITH LOW-E & TOUGH GLASS

PROVIDING EXCELLENT PERFORMANCE

OUTTER GLASS KEEPS THE OUTSIDE TEMPERATURE OUTSIDE SINCE IT WORKS INDEPENDENTLY



INNER GLASS KEEPS THE INTERIOR TEMPERATURE INSIDE SINCE IT WORKS INDEPENDENTLY FROM THE OTHER TWO UNITS OF GLASS

THIS DESIGN PROVIDES THE HIGHEST EFFICIENCY POSSIBLE AND WILL EVEN LOWER YOUR MONTHLY HEATING & COOLING COSTS

ALSO, AN ADDED BONUS THE TRIPLE PANE GLASS FEATURE HAS A STC RATING OF 36db.

SO, YOUR WINDOW HELPS WITH KEEPING EVERYTHING QUIET

MIDDLE GLASS PROVIDES A BARRIER THAT ALLOWS EACH PANE TO ACHIEVE TOP PERFORMANCE

WHY ARE THESE NUMBERS IMPORTANT;

THESE ARE THE RESULTS OF TESTING AND CERTIFICATIONS

THE U-VALUE OR U-FACTOR

HOW WELL THE GLASS PERFORMS BY KEEPING THE INSIDE WITHIN THE HOME AND ALSO HOW WELL INSULATED THE GLASS UNIT PERFORMS

0.10 = R-10

0.17 = R-7

0.50 = R-2

NFRC
National Fenestration Rating Council®

NEO TILT&TURN

ENERGY PERFORMANCE RATINGS

U-factor	Solar Heat Gain Coefficient
0.17 - 0.27	0.20-0.34

ADDITIONAL PERFORMANCE RATINGS

Visible Transmittance	Condensation Resistance
0.23-0.51	60-76

design pressure (DP)	structural pressure (STP)
+45,11 psf	+67,67psf

WHAT IS SHGC?

THE MEASUREMENT OF HOW MUCH SOLAR RADIATION PASSES THROUGH A WINDOW AND ENTERS THE BUILDING TO INCREASE HEAT WITHIN A BUILDING.

LOWER THE NUMBER THE BETTER THE RESISTANCE TO HEAT OR HOW MUCH HEAT IS KEPT OUTSIDE THE HOME

SHGC IS MEASURED FROM 0-1

CURRENT STANDARD OF SHGC IS 0.25 AND 0.80

PLASTIXAL
LIFETIME SAFETY

WHY CHOOSE A PLASTIXAL WINDOWS?

WE CONSIDER ENERGY EFFICIENCY AND MONEY SAVINGS A TOP PRIORITY

NFRC National Fenestration Rating Council®

NEO Fixed Window

ENERGY PERFORMANCE RATINGS

U-factor	Solar Heat Gain Coefficient
from 0.27	from 0.27

ADDITIONAL PERFORMANCE RATINGS

Visible Transmittance	Condensation Resistance
from 0.36	from 57

design pressure (DP)	structural pressure (STP)
+45.11 psf	+67.67 psf

NFRC National Fenestration Rating Council®

NEO / NEO TILT&TURN

ENERGY PERFORMANCE RATINGS

U-factor	Solar Heat Gain Coefficient
0.17 - 0.27	0.20-0.34

ADDITIONAL PERFORMANCE RATINGS

Visible Transmittance	Condensation Resistance
0.23-0.51	60-76

design pressure (DP)	structural pressure (STP)
+45,11 psf	+67,67psf

NFRC National Fenestration Rating Council®

NEO Smart Slide

ENERGY PERFORMANCE RATINGS

U-factor	Solar Heat Gain Coefficient
0.17 - 0.27	0.21-0.37

ADDITIONAL PERFORMANCE RATINGS

Visible Transmittance	Condensation Resistance
0.25-0.55	58-73

design pressure (DP)	structural pressure (STP)
+45,11 psf	+67,67psf

NFRC National Fenestration Rating Council®

Ultraglide slider

ENERGY PERFORMANCE RATINGS

U-factor	Solar Heat Gain Coefficient
From 0.29	From 0.09

ADDITIONAL PERFORMANCE RATINGS

Visible Transmittance	Condensation Resistance
From 0.08	From 51

NFRC National Fenestration Rating Council®

Genesis Tilt Turn Window

ENERGY PERFORMANCE RATINGS

U-factor	Solar Heat Gain Coefficient
From 0.18	From 0.14

ADDITIONAL PERFORMANCE RATINGS

Visible Transmittance	Condensation Resistance
From 0.26	From 49

NFRC National Fenestration Rating Council®

Genesis Fixed Window

ENERGY PERFORMANCE RATINGS

U-factor	Solar Heat Gain Coefficient
From 0.16	From 0.22

ADDITIONAL PERFORMANCE RATINGS

Visible Transmittance	Condensation Resistance
From 0.45	From 49

NFRC National Fenestration Rating Council®

Imperial Tilt Turn Window

ENERGY PERFORMANCE RATINGS

U-factor	Solar Heat Gain Coefficient
from 0.24	from 0.12

ADDITIONAL PERFORMANCE RATINGS

Visible Transmittance	Condensation Resistance
from 0.10	from 55

design pressure (DP)	structural pressure (STP)
+45.1 psf	+67.7 psf

NFRC National Fenestration Rating Council®

Imperial Fixed Window

ENERGY PERFORMANCE RATINGS

U-factor	Solar Heat Gain Coefficient
from 0.16	from 0.13

ADDITIONAL PERFORMANCE RATINGS

Visible Transmittance	Condensation Resistance
from 0.15	from 49

design pressure (DP)	structural pressure (STP)
+75.19 psf	+112.78 psf

NFRC National Fenestration Rating Council®

Panorama Folding Door

ENERGY PERFORMANCE RATINGS

U-factor	Solar Heat Gain Coefficient
0.24 – 0.34	0.18-0.41

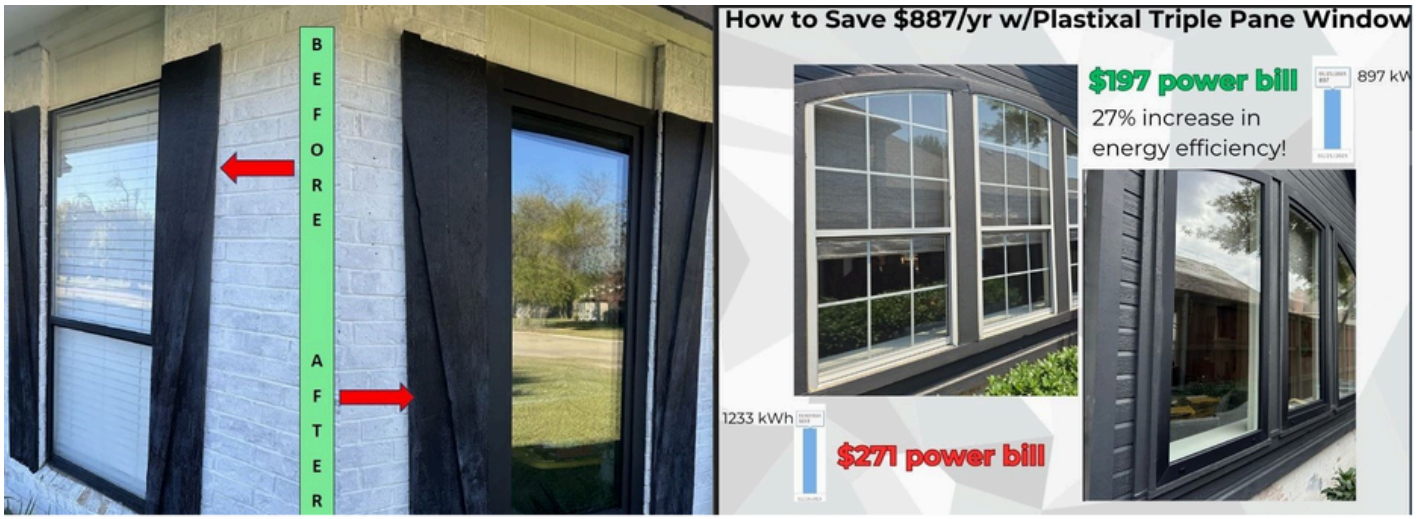
ADDITIONAL PERFORMANCE RATINGS

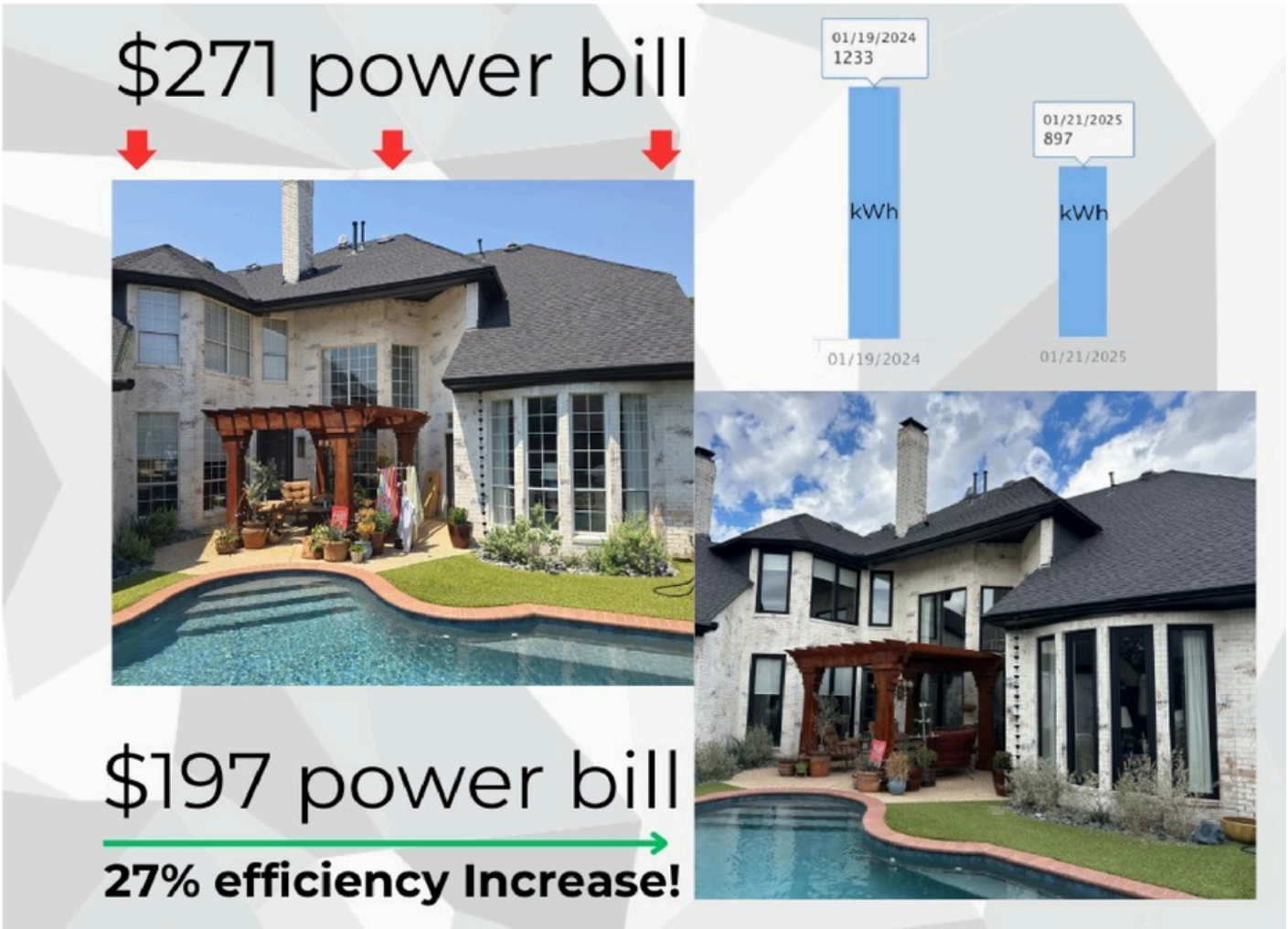
Visible Transmittance	Condensation Resistance
0.36-0.53	57-59

design pressure (DP)	structural pressure (STP)
+45,11 psf	+67,67psf

REAL SAVINGS PROOF

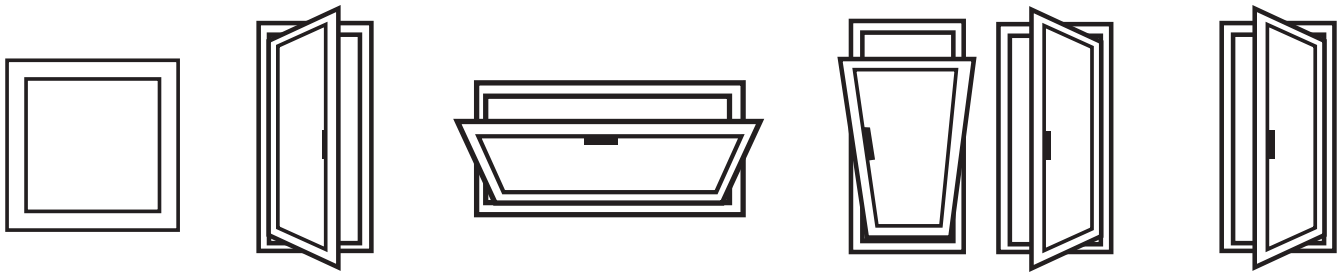
WE WANTED TO PROVE THAT OUR WINDOWS TRULY SAVE YOU MONEY — SO WE TRACKED GAS AND ELECTRIC USAGE FOR 3 MONTHS BEFORE AND AFTER INSTALLATION IN SEVERAL HOMES. HERE'S THE REAL DATA





WINDOW TYPES

WINDOW JUST THE WAY YOU WANT IT



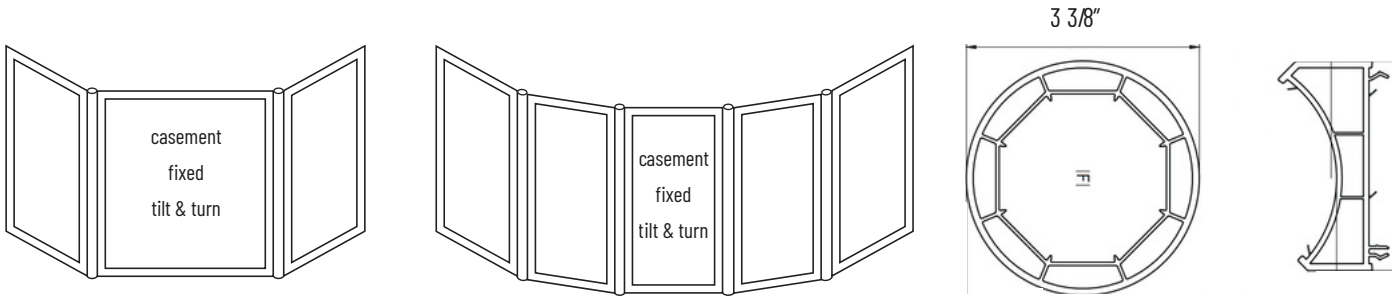
fixed | casement | hopper | tilt & turn | balcony door

MODULAR WINDOW OPTIONS



1 - sash | 2 - sashes | 3 - sashes

BAY WINDOW OPTIONS



It enables the installation of window structures that are connected **at any angle from 90° to 180°**.
The use of this element allows for the installation of windows in bay or bow windows.

TECHNICAL SPECIFICATION OF NEO



NEO 2.0 TECHNICAL SPECIFICATIONS

Installation depth: 3" (76 mm)
Maximum glazing depth: 2.12" (54 mm)
Number of seals: 2,
Number of chambers: 5 - 6,
Uw coefficient from: 0.15 Btu/h ft² °F (0.85 W/m2K)
Available core colors: White, Brown, Anthracite,
Profile reinforcement type: Steel.

- only 4.33" (110 mm) wide - even more light,
- three sealing surfaces,
- woodec and aludec recommended,
- decorative surfaces,
- enhanced burglary protection - highest certified class in Europe,
- numerous variants.



NEO 3.0 TECHNICAL SPECIFICATIONS

Uw value: 0.15 Btu/h ft^2 °F (0.85 W/m^{2}K)

U-factor 0.15 USA=R-Value-6.7

- woodec and aludec recommended
- decorative surfaces,
- enhanced burglary protection - highest certified class in Europe
- countless variants





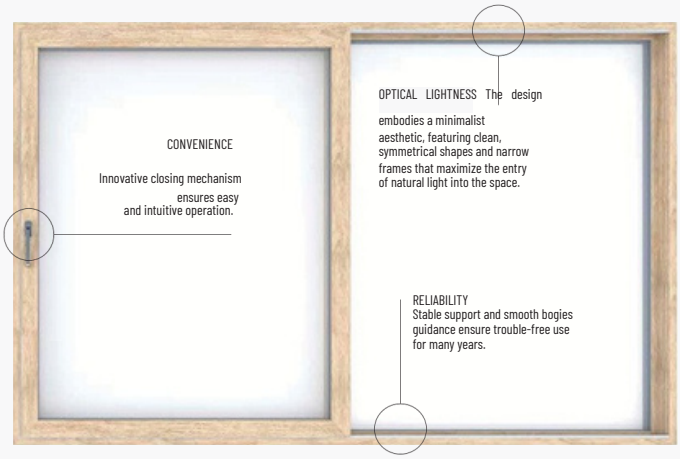
PLASTIXAL
LIFETIME SAFETY

SMART SLIDE NEO



Smart-slide NEO sliding door

WE MADE
STEPPING OUT INTO
THE PATIO
MORE CONVENIENT
THAN EVER BEFORE



SMART-SLIDE NEO PATIO DOORS - ease of use, reliability, and beauty in one.

Smart-slide NEO is all about large glass surfaces, a timeless trend, which allows you to enjoy great panoramic views and give out the impression of openness and spaciousness.
Smart-slide NEO's maximal dimensions measure at 236" x 98". The sash alone can be even 98" wide.

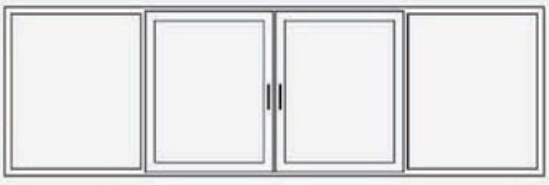
CHARACTERISTICS:

- Installation depth - 6"
- Sash installation depth - 3"
- Maximum dimensions of the construction - 236" x 98"
- 2 basic standards of glazing width - $^{15}/_{16}$" and $1\,^{7}/_{8}$"
- Possible opening configurations - A, C
- Application - balcony, terrace, windows

SCHEMES OF OPENING



Scheme A, asymmetrical



Scheme C



Scheme A, symmetrical



NEO 2.0



NEO 3.0



NEO with nail flange



VISION Casement



VISION Single-Hung



VISION Double-Hung



VISION Double Slide



SMART SLIDE NEO



VISION PATIO DOOR

STANDARD COLORS FOR NEO

WOODEC


AP19 TURNER OAK MALT


AP20 SHEFFIELD OAK ALPINE


AP22 TURNER OAK TOFFEE


AP21 SHEFFIELD OAK CONCRETE


AP35 TURNER OAK WALNUT


AP39 TURNER OAK AMBER

ALUDEC

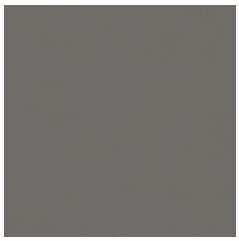

AP03 ANTHRACITE GREY


AP04 JET BLACK (ALUDEC)


AP07 ALUX DB (ALUDEC)


AP08 BASALT GREY (ALUDEC)

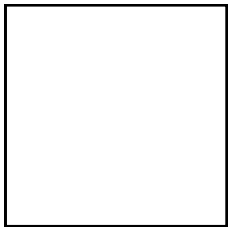

AP12 UMBRA GREY (ALUDEC)


AP14 QUARTZ GREY (ALUDEC)

AP36 TRAFFIC WHITE (ALUDEC)


AP37 WINDOW GREY (ALUDEC)

OTHER


WHITE

Available colors for VISION

LAMINATE COLORS FROM THE OUTSIDE

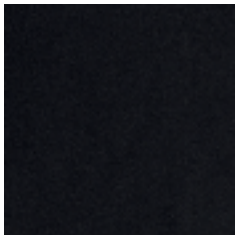

MAHOGANY

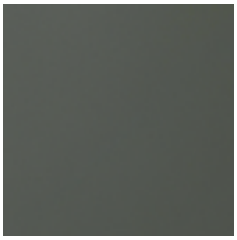

WALUNT V

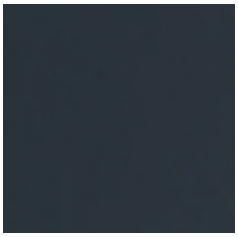

GOLDEN OAK


SILVER V

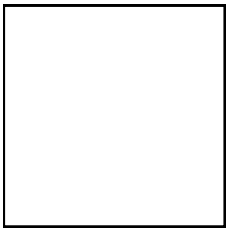

BROWN 8972


BLACK SMOOTH 2

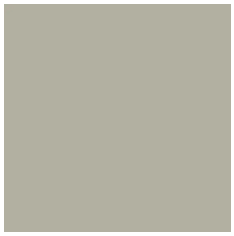

TROMPET C-32 N SMOOTH


ANTHRACITE GREY 7016 SMOOTH 2

INTERIOR COLOR


WHITE

THROUGH COLORED*


CLAY


ALMOND

*ORDERS OVER 150 PIECES

WE DON'T JUST HAVE GLASS – WE HAVE A WORLD OF GLASS

Glass Types
Annealed
Tempered
High Altitude

Low-E Coating
Premium
SunGuard®
ClimaGuard®

EXTRAS
Laminated Sound Glazing
Ceramic, Enamel
Bird Safe Glazing
Frosted



GLAZING | **Glazing Unit Types**



- Improves energy efficiency by reducing heat transfer between indoors and outdoors.
- Enhances sound insulation compared to single-pane windows.
- Reduces condensation on the interior glass surface.
- Offers good value — strong performance at a reasonable cost.

double glass



- Provides superior insulation, keeping homes warmer in winter and cooler in summer.
- Offers maximum sound reduction, ideal for noisy areas.
- Increases comfort by minimizing cold drafts near windows.
- Boosts energy savings, especially in colder climates.
- Can improve security thanks to the added glass layer.

triple glass

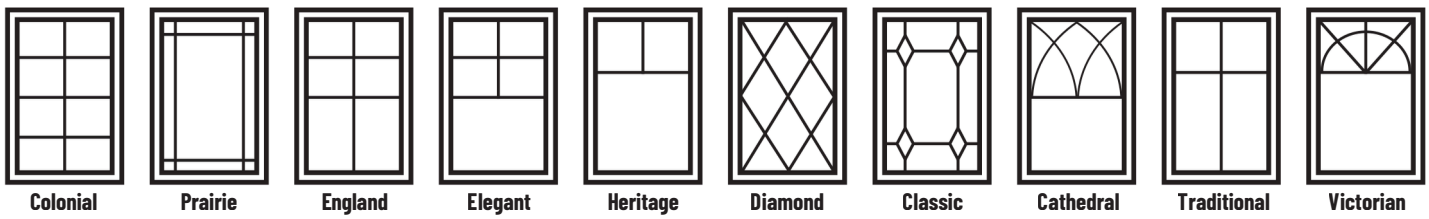
TINTED GLASS OPTIONS





GRILLE OR NOT TO GRILLE







GBG (Grilles between-the-glass):

- $^{6}/_{8}$″
- 1″



SDL (Simulated Divided Lites):

- 1″
- $1\,^{6}/_{8}$″

HANDLES

Dublin



HANDLES OPTIONS:

- standard
- with the button
- with the key

Victory



Atlanta Secustic



Limiters





MAXIMUM SIZES*

NEO 2.0	Max. Height	Max. Width
White Window Frame	98 3/8″	59″
Color Window Frame	94 1/2″	55″

NEO 3.0	Max. Height	Max. Width
White Window Frame	98 3/8″	63″
Color Window Frame	94 1/2″	63″

*Both maximum height and maximum width cannot be applied at the same time.

SCREENS, HINGES AND MORE

SCREENS



Fixed



Sliding



Refractable



Pleated

HINGES OPTIONS





POST OPTIONS



Window with fixed mulion



Window with movable mulion

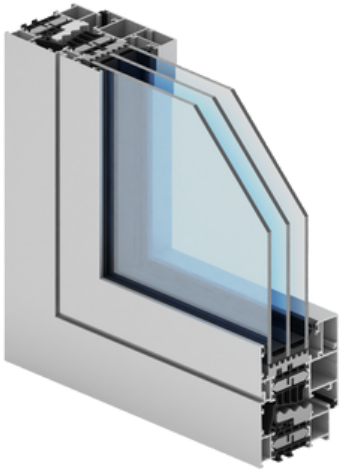
FRENCH WINDOW / BALCONY



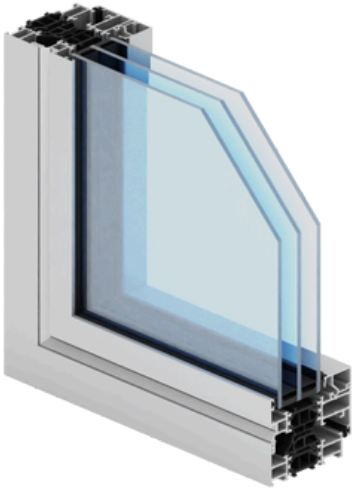
ALUMINUM OPTIONS



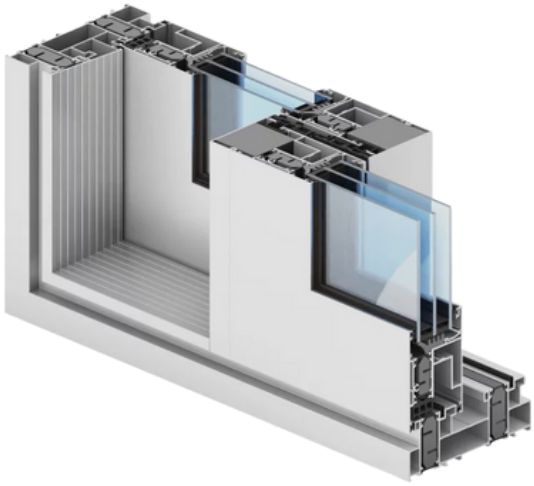
IMPERIAL



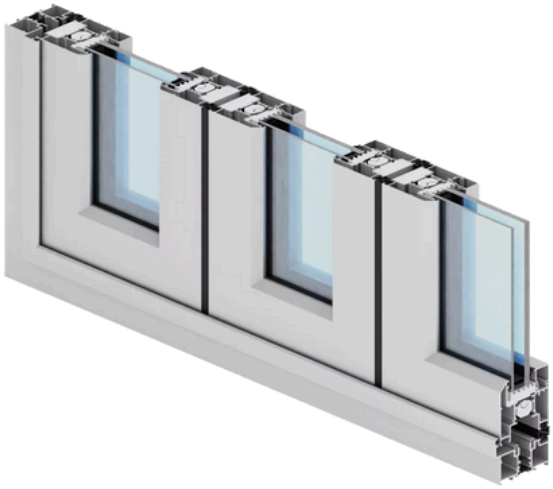
GENESIS 75



MAX LIGHT



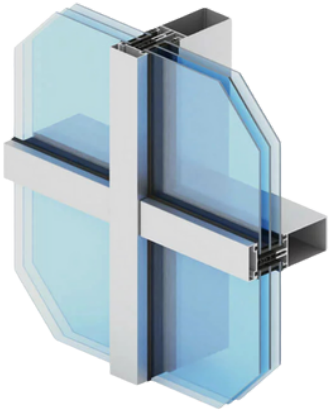
ULTRAGLIDE



PANORAMA BI-FOLD



PERGOLA



FACADE MCWALL

ALUMINUM MANUFACTURERS

OUR PARTNERS IN THE ALUMINUM WORLD

BECAUSE TOGETHER WE HAVE EXPANDED WORLDWIDE

aliplast
aluminium systems

Reynaers
Aluminium







Certificate



Reynaers Aluminium certifies that Company:

Plastixal Sp. z o.o.

Stare Bożejewo 44
18-430 Stare Bożejewo

Is authorized manufacturer of aluminium constructions in Reynaers Aluminium systems.

The holder of this authorization have the right to use the mark "authorized manufacturer" for the duration of the authorization.

Authorization is issued for a period of 2 year.

Przeszkoda, 27.10.2025

Krzysztof Panawa

Krzysztof Panawa
Sales & Marketing Director, Reynaers Aluminium

aliplast
aluminium systems

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Certified Fenestration Products

PLASTIXAL sp. z o.o.
Genesis/GN75 Dual Action Window

CAR No.: 1453-0108
Performance Class: CW
Design Pressure: 50
Referenced Standard: AAMA/WDMA/CSA 101/IS2/A440-17
Rating: Class CW-PG50 1505x2496 (~59x98)-Type DAW

PLASTIXAL sp. z o.o.
Genesis/GN75 Low Threshold Tilt/Turn Balcony Window

CAR No.: 1453-0104
Performance Class: CW
Design Pressure: 45
Referenced Standard: AAMA/WDMA/CSA 101/IS2/A440-17
Rating: Class CW-PG45 1200x2400 (~47x95)-Type DAW

PLASTIXAL sp. z o.o.
Genesis/GN75 Tilt/Turn and Casement Window

CAR No.: 1453-0105
Performance Class: CW
Design Pressure: 45
Referenced Standard: AAMA/WDMA/CSA 101/IS2/A440-17
Rating: Class CW-PG45 2407x2203 (~95x87)-Type DAW

PLASTIXAL sp. z o.o.
GN US 914 Hidden Sash Tilt/Turn Window

CAR No.: 1453-0106
Performance Class: CW
Design Pressure: 70
Referenced Standard: AAMA/WDMA/CSA 101/IS2/A440-17
Rating: Class CW-PG70 1708x2705 (~67x107)-Type DAW

PLASTIXAL sp. z o.o.
GN75 USA Tilt/Turn and Fixed Window

CAR No.: 1453-0107
Performance Class: CW
Design Pressure: 70
Referenced Standard: AAMA/WDMA/CSA 101/IS2/A440-17
Rating: Class CW-PG70 2400x1803 (~95x71)-Type DAW

PLASTIXAL sp. z o.o.
Imperial/IP Dual Action Window

CAR No.: 1453-0102
Performance Class:
Design Pressure: 75
Referenced Standard: TAS 202
Rating: DP +/-75, 49x87

PLASTIXAL sp. z o.o.
Imperial/IP Fixed Window

CAR No.: 1453-0103
Performance Class: CW
Design Pressure: 75
Referenced Standard: AAMA/WDMA/CSA 101/IS2/A440-17
Rating: Class CW-PG75 1848x2699 (~73x106)-Type FW

PLASTIXAL sp. z o.o.
Imperial/IP Fixed Window

CAR No.: 1453-0101
Performance Class:
Design Pressure: 75
Referenced Standard: TAS 202
Rating: DP +/-75, 73x106

PLASTIXAL sp. z o.o.
IP TT Imperial Dual Action Window

CAR No.: 1453-0116
Performance Class: CW
Design Pressure: 70
Referenced Standard: AAMA/WDMA/CSA 101/IS2/A440-22
Rating: Class CW-PG70 1232x2197 (~49x86)-Type DAW, WTP=15.04

PLASTIXAL sp. z o.o.
Maxlight Tilt and Turn

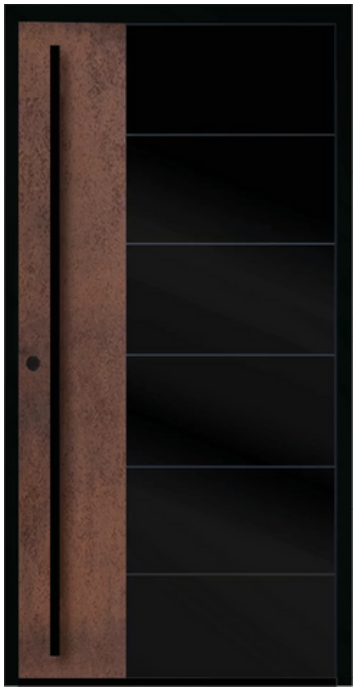
CAR No.: 1453-0115
Performance Class: LC
Design Pressure: 50
Referenced Standard: AAMA/WDMA/CSA 101/IS2/A440-22
Rating: Class LC-PG50 1210x2403 (~48x95)-Type DAW, WTP=15.04

PLASTIXAL sp. z o.o.
Visoglide Sliding Door

CAR No.: 1453-0114
Performance Class: LC
Design Pressure: 50
Referenced Standard: AAMA/WDMA/CSA 101/IS2/A440-22
Rating: Class LC-PG50 2442x2746 (~96x108)-Type SD

EXCLUSIVE ALUMINUM DOORS

NEWAY
EXCLUSIVE DOORS



NEWAY DOORS






NEWAY PIVOT DOORS

EXCLUSIVE ALUMINUM DOORS

PREMIUM ALUMINUM ENTRANCE AND PIVOT DOORS - EXCEPTIONAL QUALITY, MODERN DESIGN, AND A WIDE RANGE OF STYLES









PLASTIXAL
LIFETIME SAFETY

EUROPEAN VS. AMERICAN WINDOWS



Single/Double Hung Windows



European, Tilt & Turn, Triple Pane Windows

What is the difference? **How do they compare?** **Which is better?**

Well, lets do a quick informative on pros and cons.

After reading and learning about the facts, you make the decision.

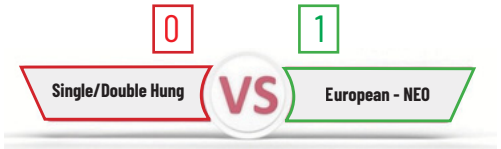
The following pages will describe the difference between a European window & the standard American window we call Single or Double Hung Windows.

We will compare, explain & describe:

Energy Efficiency | Thermal Insulation | The Mechanisms | Seals | Weather Resistance | Profiles | Materials | Aesthetics | Design | Security Cost | Durability | Maintenance & Longevity

Energy Efficiency and Thermal Insulation

- **European Windows:** Typically have higher energy efficiency. Most are equipped with triple glazing and frames with better thermal insulation, making them more effective at retaining heat in the winter and keeping interiors cool in the summer, suitable for various climates. This is what stands these windows apart, they are designed and built to keep your monthly utility costs down and most of all maintain a comfortable interior temperature. This is where buyers of European windows have a greater advantage, the R-Value of R-7, R-8, R-9, R-1. It is worth mentioning that the Efficiency & Thermal Insulation actually increases with the size of the window. Larger window = Higher R-Value.
- **American Windows:** Often limited to double glazing, with a lower U-factor compared to European standards, especially in older windows.



Opening Mechanism

- **European Windows:** Feature advanced opening mechanisms such as tilt-and-turn or tilt-and-slide, offering greater functionality and flexibility. These windows can be tilted for ventilation or fully opened.
- **American Windows:** Many are „single-hung" or „double-hung," where only the bottom or both sashes move vertically, limiting the ventilation and opening options & allows for easier manipulation for break in.



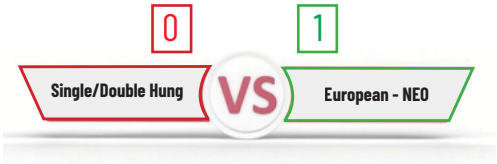
Sealing and Weather Resistance

- **European Windows:** Offer better sealing and advanced locking systems. They often have triple seals and multi-point locking systems, ensuring superior protection against drafts, water, and wind.
- **American Windows:** Tend to be less airtight, especially in older models. Hung windows often lack advanced seals, making them prone to drafts and less effective against heavy rains or strong winds.



Profiles and Materials

- **European Windows:** Are usually made from high-quality materials such as aluminum, PVC, or wood-aluminum combinations. The profiles are thicker, allowing for triple glazing and better insulation. Again, this is where the true value of the quality tends to shine, due to the way they are built, they provide the higher R-Value.
- **American Windows:** Often made from cheaper materials like low-quality PVC or wood, which are not as well insulated. The profiles are thinner, limiting the use of larger or more energy-efficient glazing units. Low R-Value.



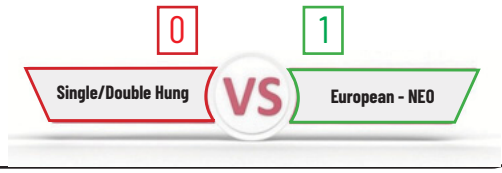
Aesthetics and Design

- **European Windows:** Tend to have a more minimalist, modern design and come in various colors and finishes. They have sleek profiles and often feature concealed hinges for a more elegant appearance.
- **American Windows:** Typically have a more traditional design, with thicker frames and fewer options for customization in terms of colors or finishes.



Security

- **European Windows:** Often come with more advanced security systems, such as multi-point locks and specialized bolts, making them harder to break into.
- **American Windows:** Generally, have less advanced security features, and hung windows can be more vulnerable to break-ins, especially older or cheaper models.



Cost

- **European Windows:** Generally, the overall cost tends to be similar depending on the models you are comparing, Overall European windows can be slightly more expensive due to higher production standards, advanced technology, and superior materials, however for the regular homeowner, cost is about the same.
- **American Windows:** Are typically cheaper, though this often comes at the expense of quality and durability.



Durability and Maintenance

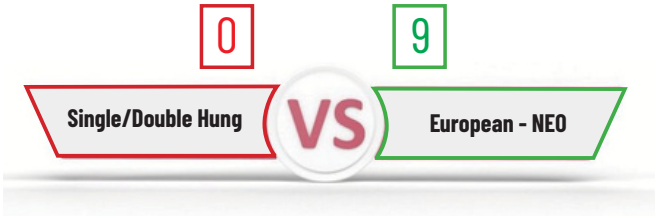
- **European Windows:** Are more durable and require less maintenance. Advanced mechanisms and high-quality materials make them more resistant to wear and tear.
- **American Windows:** Require more frequent maintenance, especially older wooden models, which can warp or crack over time.



Longevity

- **European Windows:** Offer a longer lifespan due to better materials and more precise manufacturing, leading to fewer issues over time.
- **American Windows:** Typically have a shorter lifespan, especially models made from lower-quality materials, and may require replacement sooner.







Inconclusion,

European windows

Generally, provide better insulation, greater airtightness, more advanced opening mechanisms, and a more modern design.

European, Tilt & Turn, Triple Pane Windows offer a lower U-Factor (0.16),

Lower Solar Heat Gradient Coefficient (0.20), The combo affect results in a better and higher R-Value; R-7, R-8, R-9, R-10.

American windows

Simpler, Cheaper Materials, less durable, Frequent Replacement @ a high cost

Does not provide any energy efficiency,

Generally U-Factor of 0.50+ & SHGC of 0.50+.

That result in R-1 maybe R-2.

Concrete has a R-Value of R-1.

Our NEO windows

are priced lower than most American window systems, offering a high-quality alternative at a competitive price. Oh, and a LIFETIME WARRANTY WITH lifetime safety & durability.

PERFORMANCE RATINGS

ENERGY PERFORMANCE RATINGS	
U-Factor (U.S./I-P)	Solar Heat Gain Coeficcient
0.17	0.20
ADDITIONAL PERFORMANCE RATINGS	
Visible Transmitance	Condenasation Resistance
0.23	60

TESTED & CERTIFIED:



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