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Imagine the Unimaginable with Barcelona Windows

Unparalleled impact protection. Cost-saving thermal efficiency. Exquisite beauty. Unmatchable comfort. Intruder-resistant security. Long-lasting durability. Lifetime protection. When investing in your home, you want all of this and more—and Barcelona Impact Windows can provide this plethora of benefits and truly transform your ordinary home into an extraordinary home.

Barcelona Impact Windows provide the best, most dependable storm protection available for your home. These windows will effectively protect your home against debris from strong windows, storms, and other forms of violent weather year round. Heavyduty Barcelona Windows provide continuous hurricane protection because they require no preparation as violent weather approaches. Just close and lock them. And—unlike shutters or boarded-up windows—they allow natural daylight in, making it easier and safer for you to function during power outages. With Barcelona Windows, you don't have to sacrifice beauty to achieve top-notch impact protection. You can improve your home's curb appeal with large, panoramic windows in stunningly beautiful shapes. Catch the eye of everyone in your neighborhood with new windows in any size, shape, color or operating style. Possibilities abound, and whatever your dream for your home, Barcelona Windows can help you achieve it!

Barcelona windows are specially designed to meet the needs of contemporary homeowners. They provide the absolute best thermal performance to help curb your home energy costs. They provide outstanding protection against intrusion, making your home safer and more secure. They block damaging UV rays to keep your carpet and furnishings looking bright and new. Most importantly, they're manufactured using cutting-edge technology and utilizing the finest materials and components available, so they'll last for decades.







Barcelona Windows—Protection, Quality, Luxury, Distinction, Comfort, Security & More

Energy Savings & Comfort

When you think about creating a snug and comfy home, your windows should play a key role. You want well-made, energyefficient replacement windows. Products that will keep out cool drafts or scorching summer heat—reducing the time your heating and air conditioning units run. Windows that will create the comfortable haven you desire for your home.

Barcelona windows are some of best, most energy-efficient windows on the market—ideal for saving energy dollars, safeguarding the environment and reducing your carbon footprint. Multi-chambered frames made of the very best vinyl, advanced weather stripping, Soft-Lite's unique Dura-Sill design, and ENERGY STAR[®] certified impact glass...it all adds up to a window that offers truly exceptional energy efficiency.

Safety & Security

Do you feel at risk for potential burglaries or home invasions? Barcelona impact windows are the key to safeguarding your family—and your home—against possible threats.



intruders.

Super-tough frames, heavyduty locks and impactresistant laminated glass —a combination that leads to unsurpassed security that will fortify your home's most vulnerable entry points and help defend your home against

Your home should be your sanctuary; a place where you don't have to worry about the security of your family and possessions. Barcelona windows can give you that peace of mind. Super-tough frames, heavyduty locks and impactresistant laminated glass —a combination that leads

Style & Simplicity

Another important consideration when buying windows and doors is a fresh, clean and beautiful appearance that you can admire—without spending hours on maintenance. With Barcelona windows, you get the best of both worlds.

You can choose many window styles—from breeze-catching casements to gracefully designed double or single hungs. In addition to the stunning beauty they provide, Barcelona windows are significantly easier to keep clean and bright. Cleaning some windows can be exceptionally difficult—but Barcelona windows will save you time and aggravation because they allow you to access the outside of the glass for easy cleaning. The special-formula vinyl Soft-Lite uses practically cleans itself—and our windows require little or no maintenance.

National Crime Prevention Council



Soft-Lite is the exclusive window sponsor of the National Crime Prevention Council. The company works with NCPC to educate consumers about home crime prevention strategies, particularly around window and door security.

ENERGY STAR® Partner of the Year



Soft-Lite Windows was recognized by the U.S. Environmental Protection Agency (EPA) as a winner of

the prestigious 2014 & 2015 ENERGY STAR Partner of the Year Award and 2016 & 2017 Sustained Excellence Award for its outstanding contribution to reducing greenhouse gas emissions by manufacturing energyefficient products and educating consumers about energy efficiency.

Barcelona Windows—The Absolute Best for Violent Weather Protection

Barcelona impact windows have been specially engineered to protect your home and loved ones from violent weather year round. Barcelona windows are offered with two different levels of protection.

Barcelona "Impact Level D" windows can be installed practically anywhere, even right on the coastline. They passed ASTM Large Missile Impact Level D tests, and have also achieved "HVHZ" certification, which means they are tested and approved for highvelocity hurricane zones. They carry a DP 50 rating or better in accordance with the American Architectural Manufacturers Association's 101 standard for air, water and structural wind load testing.

Our "Impact Level C" windows are ideal for non-coastal areas that are prone to violent weather and require windows that keep out wind and water. In addition to easily passing ASTM Large Missile Impact Level C Tests, these windows also carry a minimum DP 50 rating.

All Barcelona Impact Windows undergo rigorous testing and easily passed:

ASTM 1886/1996 Large Missile Impact tests

ASTM E330 Wind Load Tests

ASTM E331 Water Penetration Tests

TAS 201, 202 and 203 Tests

All Barcelona Windows also incorporate high-performance laminated glass – with three panes of glass and a protective interlayer. This unique glass is so strong it can withstand repeated blows by hammers, crowbars and baseball bats before it can be penetrated. Even when shattered, the glass is virtually impenetrable—making it an excellent barrier against airborne debris and other dangers from violent weather.







Barcelona Double-Hung Windows

Barcelona double-hung windows are some of the best, most secure and energy-efficient windows on the market—ideal for impact protection, saving energy dollars, safeguarding the environment and reducing your carbon footprint. Multi-chambered, foam-filled frames made of the very best vinyl, custom crafting with perfect welds and very tight tolerances, the most advanced glass technology...it all adds up to a window that offers truly superlative hurricane protection, energy efficiency and much, much more.

Barcelona windows stand apart from all the rest—as the window made for your home. In addition to their unbeatable impact protection and excellent energy-efficient properties, they offer countless other benefits—such as intruder-resistant security, long-lasting durability, stunning beauty and practically no maintenance.

Also of importance—Barcelona windows can be designed to reflect your personal tastes and preferences. Modern and contemporary. Classic and traditional. Elegant and luxurious. Stunningly original. No matter what style you prefer, Barcelona windows can help you achieve it for your home. Get precisely the look you want with a wide assortment of options, including various exterior colors, between-the-glass grids or specialty shapes.





Barcelona Single-Hung Windows

Single-hung windows, which incorporate two sashes, one fixed and one that slides up and down, are a beautiful, more practical choice for many coastal homes. Barcelona single-hung windows are ideal for homeowners who prefer this operating style, because they will enhance the beauty of any home—yet are built to provide decades of impact protection, thermal efficiency, security, durability, and easy operation, like all Soft-Lite products.

Barcelona single-hung windows offer you a wide array of features, benefits and options. They feature the same tough, heavy-duty frames as our double-hung window. They include a tilt-in bottom sash for easy cleaning. They can be designed using the geometric shape of your choice to give your home a more one-of-a-kind look and feel.

If you want the style and appearance of a double-hung window—but don't want the top sash to operate—Barcelona single-hung windows will fit right into your home





Barcelona Sliding Windows

Think of the sliding window as a double-hung turned on its side! It combines all the features of a double-hung (without the need for balances). Barcelona sliding windows are beautifully designed to provide an unobstructed view, yet built tough for decades of weather protection and smooth operation.

Sliding windows are an ideal style if you're looking for a wider window that offers a more panoramic view of the outdoors. You can choose from several window configurations—so you get precisely the look and feel you want to achieve for your home.

All Barcelona sliding windows roll easily and dependably on corrosion-resistant brass rollers. For ease of cleaning, the operating sashes lift out.

If you want to create a room with a spectacular view—a vast "window to the outdoors"—Barcelona sliding windows may be the perfect choice for your home.









Barcelona Casement & Awning Windows

The Barcelona casement window is the epitome of perfect form and function in a specialty window. Designed with the clean lines of a picture window, it offers added ventilation and the freedom of opening the sash to the outdoors. At the same time, casement and awning windows create an airtight seal that offers excellent thermal efficiency and enhanced comfort in your home.

Barcelona projecting windows open with just the turn of a handle; casement windows can be left or right hinged to open to the outside, while awning windows open from the bottom to provide refreshing ventilation when you need it. The easy-to-use, durable, crank handle and hardware ensure that you will be able to open and close your windows with ease for years to come.

These windows are also designed with a single-lever lock handle that easily engages and locks multiple lock points within the window's mainframe when closed—making your home more secure and resistant to intrusion.

Casement and awning windows provide many options for beautifying your home. In addition to being used individually, both can be used in a multi-window configuration.





Patio Doors

Soft-Lite offers you beautifully designed sliding patio doors to complement your Barcelona windows. Our 6400 Series sliding patio door is engineered to provide the luxurious style you desire for your home—while still offering superb protection that is so important to you.

The durable, heavy-duty 6400 Series patio door is exceptional in every aspect. It is specifically manufactured to give you unsurpassed storm protection and security, unparalleled thermal efficiency, and decades of smooth, reliable operation. From its massive, corrosion-resistant rollers and durable, reinforced structure to its superb energy efficiency and classic design, 6400 Series is heads above all the rest. These doors are rigorously tested and rated to stringent industry DP-50 standards, so they'll provide outstanding performance—even in the toughest conditions. 6400 Series doors are super-strong doors that are perfect for locations such as coastal areas that require doors that keep out wind and water.

These highly advanced doors provide other great benefits like enhanced safety and security, easy operation and extremely low maintenance. These truly innovative doors also offer an elegant and beautiful appearance, with a number of distinctive design options that allow you to be as creative as you'd like in constructing the perfect patio door for your home.



Standard features that make Barcelona Windows better than the rest



Barcelona windows far exceed all industry standards for energy efficiency, as well as air and water penetration and durability. These windows are built with the finest materials and the newest manufacturing technology to ensure that they will last for the lifetime of your home. Here are a few of the standard features that make Barcelona windows better than all the rest!

01 Thick-Walled Vinyl Frame—

with all corners fused together at high temperatures for extraordinary strength—has multiple internal chambers to provide optimal insulation.

02 Soft-Lite's special-formula vinyl

is known for its exceptionally clean, smooth surface that keeps Barcelona windows looking beautiful for decades.

03 Stainless steel Constant Force balance system

Feature not visible in photograph

gives you fingertip operation of even the largest double-hung models.

04 Marine glazing,

or wet window glazing, ensures a tighter seal, the stronger the winds blow.

05 Insulating foam wrap

around the frame reduces the likelihood of drafts between the window and any voids in your wall.*

06 Comfort Foam[™]

inside the frame chambers improves energy efficiency.*

07 Easy-pull tilt latches

on double-hung models let you "tilt in" sashes to make window cleaning a breeze.

Delta Lock



Limit Latches

Easy-to-operate limiting latches allow for ventilation while helping to keep children and your home safer.

Weather Stripping

Special premium-grade weather stripping improves insulation and window performance.

Barcelona Dura-Sill Design



1 Comfort Foam[™]:

R-5 expanding polyurethane foam insulates sash and frame extrusions, improving overall thermal efficiency.*

2 Ultra-Smart[™] triple-fin weather stripping:

Located on all sashes and at the interlocking meeting rail, Ultra-Smart features Ultrafab[®] Tri-Fin[®] Gold Series gaskets with built-in Ultra-Fresh antimicrobial protection to minimize drafts, dust and pollen.

3 Structural interlock in bottom sash:

Our interlocking sill-sash rail keeps the sash in place against the sill dam weather stripping when the window is under extreme wind-load stress.

4 Soft-Seal[™] straddle gasket:

Our Q-Lon[®] compression gasket system straddles the sill rail when the sash is locked shut to add barriers and diversions for exceptional water resistance.

5 Double-walled sill dam:

Tight, mortise-cut, double-walled sill dam extends inside the window mainframe for uniform strength and seal. * Feature not visible in photograph.

Super-Strong Metal Reinforcement



The sash keeper rail in Barcelona doublehung and sliding windows features special structural reinforcement for maximum strength, energy efficiency and durability. This heavy-duty metal reinforcement enhances the strength and protective properties of these windows, which prevents the meeting rails from warping and improves the durability of the window. This ensures Barcelona windows provide you with the best structural protection available during violent weather.

Points of Air Infiltration



The Best Protection Against Violent Weather

Poorly designed windows don't have the built-in airlocks, weather stripping, and barriers necessary to keep air from forcing its way in, particularly during violent storms. Without these design features, air will push between the sash meeting rails and around the sash perimeter where it meets the frame and sill.

We know how uncomfortable a home with leaky window will be. So we loaded the Barcelona window with weather barriers that go far beyond the industry standard and other manufacturers' impact window designs.

NAMI

NAMI Gold Label Certified—for Structural Integrity Like No Other

The National Accreditation & Management Institute is a nationally recognized accrediting source for the structural design performance of windows and doors. NAMI's Structural Certification Program is accredited by the American National Standards Institute (ANSI) and the International Accreditation Service (IAS). The program is

also recognized by the state of Florida. If you demand windows and doors that meet stringent performance standards, just look for the NAMI certification label. Products that have earned the right to display this label have had a sample unit pass



independent laboratory tests to ensure they comply with

the applicable test standards. The NAMI Certification and Inspection Process provides consumers with quality assurance that the product that they are purchasing is the same product that was tested by an independent laboratory and will perform to the level which the test report reflects.

D Level NAMI Ratings



SINGLE SLIDER

SSL30I LEVEL C: +55 -60

Air:

0.02

C Level NAMI Ratings





NAMI LABEL CERTIFICATION

Measured air leakage in cubic feet per minute (cfm) at static 25 mph.

SINGLE HUNG

SSL30I LEVEL C:

Air:

0.02

+55 -65

CFM GALLONS 12oz SODA CANS (Cubic Foot per Minute) 1 CFM of air leakage per minute 7.5 gallons 80 soda cans of air per minute of air per minute (960 oz/min) INDUSTRY STANDARD* .30 CFM 2.25 gallons 24 soda cans of air per minute of air leakage per minute of air per minute (288 oz/min) Traditional Wood Residential **Double-Hung Windows** (Pella/Marvin/ Jeld-Wen/Andersen) .23 CFM 1.725 gallons 18.4 soda cans of air per minute (220.8 oz/min) of air per minute from 0.12CFM to 0.30CFM** Traditional Vinvl Residential High-Performance Double-Hung Windows (Alside/Simonton/Champion) 1.125 gallons 12 soda cans of air per minute .15 CFM of air per minute (144 oz/min) of air leakage per minute *References valid as of October 1, 2010 based on our competitor's from 0.11CFM to 0.21CFM** websites and independent testing BARCELONA 000 WINDOWS 0.075 gallons 0.8 soda cans of air per minute CFM _01 of air per minute (9.6oz/min) of air leakage per minute Elements windows are 23 times more air tight than traditional wood residential double-hung windo *INDUSTRY STANDARD: AAMA (American Architectural Manufacturers Association) has set the Industry Standard for Maximum Allowable Air Infiltration at 0.30 CFM (Cubic feet per minute) during a 25 mph wind. This is equal to 2.25 gallons or 24 soda cans of air leaking through the window every minute! **D Level NAMI Gold Label** Soft-Lite Window Streetsboro, OH ANSI

C Level NAMI Gold Label

NAMI



Accredited ogram-Proc Certification

Accreditat No. #06

Product: Barcelona Vinv

Double Hung Window (DH30I) FL22295.2/.3

High-performance, impact-rated glass for storm protection, comfort, efficiency and more.

Barcelona windows are available with two levels of impact protection—Level C and Level D—so you can meet the building codes in your area. All Barcelona windows are ENERGY STAR[®] certified and provide the absolute best thermal performance for your climate region which will save you money on your home energy bills and significantly enhance the comfort of your home.

What is ENERGY STAR?

ENERGY STAR is a dynamic government/industry program designed to help individuals and businesses protect the environment through superior energy efficiency. The program helps consumers quickly and easily identify energy-efficient products that help save money and protect the environment for future generations.

ENERGY STAR certified windows help reduce energy costs, increase a home's comfort, and protect against UV damage. These products are also better for the environment—because they reduce greenhouse gas emissions—and for the country because they reduce America's dependency on foreign oil. In fact, installing ENERGY STAR certified windows and doors shrinks energy bills–and carbon footprints–by 7-15 percent compared to non-certified products.



ENERGY STAR®

Barcelona windows with high-performance glass qualify for the ENERGY STAR label—so they'll help you save money on your energy costs, while protecting the environment.

What is NFRC?

To qualify for the ENERGY STAR label, windows must be tested by an independent laboratory that is approved by the National Fenestration Ratings Council (NFRC). The NFRC is a non-profit organization created by the U.S. government to rate window, door and skylight performance. The organization's primary goal is to provide accurate and consistent information—"leveling the playing field" when comparing the energy performance of fenestration products.

The NFRC has established a voluntary national energy performance rating and labeling system for fenestration products. The NFRC rates the following:

U-Factor is a measure of rate of heat loss through a product and shows how well a fenestration product insulates.

Solar Heat Gain Coefficient is a measure of rate of heat gain that passes through a product and shows how well the product blocks heat caused by sunlight. Solar heat gain is particularly important during the summer season because it reduces the time cooling systems must run.

Visible Transmittance measures the amount of light the product lets through. The higher the VT, the more light you see.

Air Leakage is a measure of rate at which air passes through spaces in the window. It is measured in cubic feet of air passing through one square foot of window area per minute; the lower the AL value, the less air that will be transferred through the product.

Barcelona "Impact Level D" Windows

These impact windows provide fortress-like protection against both storm debris and intrusion. They can be installed practically anywhere, even right on the coastline, and have also achieved "HVHZ certification", which means they are tested and approved for high-velocity hurricane zones.

All Barcelona Impact Level D Windows incorporate a high-performance glass system featuring:

- Exceptionally tough 0.90" laminated polyvinyl butyral interlayer—bonded by intense heat and pressure between two panes of glass—provides amazing impact protection because it's virtually impenetrable. The glass is deeply embedded into the frame, offering optimum structural integrity.
- A highly advanced SolarControl Max low-emissivity coating is applied to the third glass pane. This helps reduce home energy costs, as well as provides enhanced UV protection for your carpet and other furnishings.
- Safe, stable argon gas between the glass panes dramatically improves the insulation properties of the glass and lowers home energy costs considerably.
- PPG stainless steel Intercept[®] spacer system is time-proven for long-term seal dependability and reduces energy loss through the glass for exceptional thermal performance.



High-Performance Impact Glass







Barcelona "Impact Level C" Windows

Barcelona Impact Level C windows also offer exceptional storm protection, as well as additional benefits such as energy efficiency, comfort, UV protection, sound deadening and more. They're ideal for areas that are prone to violent weather conditions, but aren't located right on the coast.

The high-performance glass system in these windows—which is very similar to the glass in Barcelona Impact Level D Windows features:

- Exceptionally tough 0.60" laminated polyvinyl butyral interlayer is bonded by intense heat and pressure between two panes of glass. This interlayer is just slightly thinner than Barcelona's Level D Windows—and still provides amazing impact protection because it's virtually impenetrable. The glass is deeply embedded into the frame, offering optimum structural integrity.
- A highly advanced SolarControl Max low-emissivity coating is applied to the third glass pane. This helps reduce home energy costs, as well as provides enhanced UV protection for your carpet and other furnishings.
- Safe, stable argon gas between the glass panes dramatically improves the insulation properties of the glass and lowers home energy costs considerably.
- PPG stainless steel Intercept spacer system is time-proven for long-term seal dependability and reduces energy loss through the glass for exceptional thermal performance.



High-Performance Impact Glass

Custom design your windows to meet your needs!

In today's world, replacement windows can be anything you want them to be. They don't have to fit any "mold"—they can be custom made precisely for your home. That includes impact-resistant windows – you don't have to forego beauty for strength.

White vinyl inside and out. Limitless exterior color options to complement or contrast your new windows to your home. Specialty windows in a wide variety of shapes—from circles to half rounds to trapezoids to pentagons and much more—to make your home look even more contemporary and distinctive. The appearance of dividedlite windows, but with the grids between the glass to eliminate maintenance.

Barcelona windows offer you all of these choices, so that you can truly design your new windows to meet your personal needs and preferences. When you choose Barcelona windows, you can be assured that your home will look stunningly beautiful and unique.

Decorative Grids

Internal grids will give your Barcelona windows the look and feel of true divided-lite windows without the hassles! Because they're between the glass panes, these grids allow for easy cleaning. Choose from a contoured or flat design, and in numerous patterns and color options to match your new windows perfectly.

Contoured Grids

Flat Grids

Specialty Shapes

Barcelona picture windows are available in many specialty shapes, all custom built to fit your home's uniquely shaped openings perfectly—and to enhance the beauty of your home. You can choose from Barcelona windows in practically any shape you can image—from Circles, Half Rounds, Trapezoids, Eyebrows, Quarter Rounds, Triangles, Pentagons, Ellipses and more.



Color Options

A completely color-matched house is now a reality! White vinyl inside and out. Exteriors in any color you desire. Barcelona windows offer you practically limitless options to complement or contrast your new windows to your home. There's no doubt you can find a color combination that makes your home look stunningly beautiful and unique!









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