

City of Foster City

ESTERO MUNICIPAL IMPROVEMENT DISTRICT

610 FOSTER CITY BOULEVARD
FOSTER CITY, CA 94404-2222
(650) 286-3200
FAX (650) 574-3483

CITY OF FOSTER CITY COMMUNITY DEVELOPMENT DIRECTOR'S ACTION NOTICE OF DECISION

APPLICATION RECEIVED: July 13, 2007

APPLICATION COMPLETE: July 13, 2007

ACTION DATE: August 2, 2007

CASE NO: UP-72-002F (Addendum)

OWNER: Sand Harbour North Homeowners' Association
The Manor Association (Attn: Eileen Greathouse)

OWNER ADDRESS: 353 Main Street, Redwood City, CA 94063

APPLICATION FOR: Addendum to review process for window prototype UP-72-002F

LOCATION: Sand Harbour North Planned Development

ZONING: R-3/PD (Townhouse Residence/Planned Development) District

ACTION TAKEN: Approved with conditions

On the date listed above, the Community Development Director of the City of Foster City, took the action described above on the subject Architectural Review application based on the following findings:

1. That the current proposal to amend the application review process for reviewing windows and doors in the Sand Harbour North Planned Development, dated August 2, 2007, which requires an application for and the issuance of a building permit, while utilizing the approved prototype for windows and doors approved on November 23, 2004 will ensure that emergency egress will be maintained from rooms where new windows have been installed, thereby helping to ensure the safety of occupants of the residential structure in an emergency.

This action is subject to any conditions contained in Exhibit A, attached.

Expiration

Any Architectural Review approval shall, without further action, become null and void if not used within two (2) years from the date of approval thereof, or within any shorter or longer period of time if so approved by the Community Development Director.

Appeal

Pursuant to Section 17.06.150 of the Foster City Municipal Code, an action of the Community Development Director on an application may be appealed within ten (10) calendar days after the

date of the Community Development Director's decision, in writing, to the Planning Commission. Appeals may be filed using the appeal form available in the Community Development Department or by letter. There is a fee for filing an appeal. All appeals must be filed in accordance with Section 17.06.150.

Acknowledgment by Applicant

Pursuant to Section 17.58.040.E of the Foster City Municipal Code, any Architectural Review decision shall not be effective until the permittee acknowledges acceptance of any conditions of approval and any appeal period has lapsed, or if there is an appeal, until a final decision has been made on the appeal.

In order to demonstrate that you are aware of and understand the Architectural Review conditions of approval (attached hereto as Exhibit A), please sign the original of this letter and return it to the Planning/Code Enforcement Division. Please keep the duplicate for your records. *Please be advised that a Building Permit **will not** be issued until the Planning/Code Enforcement Division has received the signed Notice of Decision.*

Sincerely,


Richard B. Marks
Community Development Director

(Applicant's Name) (Please Print)

Planners Initials: ej

(Applicant's Signature)

EXHIBIT A
SAND HARBOUR NORTH HOMEOWNERS' ASSOCIATION
Prototypical Guidelines for Windows/Doors

The following condition and revised approval process established in this prototype addendum shall amend the adopted approval process for the installation and replacement of windows and sliding glass doors in the Sand Harbour North Planned Development (File No. UP-72-002F). All other conditions in the prototypical guidelines are to remain effective:

CONDITIONS OF APPROVAL

1. Prior to installation or replacement of all windows, a building permit shall be obtained from the Building Division. The following shall be submitted with the building permit application:

Sand Harbour North

- A letter indicating the action of the ~~Plum Island~~ Homeowner's Association on the proposed window and/or sliding glass door replacements.
- Four copies of photographs or elevations indicating the location and size(s) of the windows and/or sliding doors
- Brochure or information on the proposed replacement windows and/or sliding doors.

This condition of approval/requirement for a building permit replaces item number 1 of the Approval Process with the result that all replacement windows in this planned development shall require a building permit instead of an Architectural Review Permit.



City of Foster City

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DEC 01 2004

PLANNING
DIVISION

CITY OF FOSTER CITY
COMMUNITY DEVELOPMENT DIRECTOR'S ACTION
NOTICE OF DECISION

APPLICATION RECEIVED: November 12, 2004

APPLICATION COMPLETE: November 23, 2004

ACTION DATE: November 23, 2004

CASE NO.: UP-72-002F

OWNER: Sand Harbour North Homeowners' Association

OWNER ADDRESS: 353 Main Street, Redwood City, CA 94063

APPLICATION FOR: Prototype for Replacement Windows and Patio Sliding Glass Doors

LOCATION: Sand Harbour North Planned Development

ZONING: R-3/PD (Townhouse Residence/Planned Development) District

ACTION TAKEN: Approved with Conditions

On the date listed above, the Community Development Director of the City of Foster City, took the action described above on the subject Architectural Review application based on the following findings:

1. That the proposal is consistent with the Foster City General Plan and Title 17, Zoning, and Chapter 2.28, Planning, of the Foster City Municipal Code because the replacement windows and patio sliding glass doors will result in an attractive appearance for the house, will provide additional/modified light and ventilation for the house and will be consistent with the residential use of the subject property.
2. That the design of the proposal is appropriate to the City, the neighborhood and the lot in which it is proposed because the replacement windows and patio doors will be compatible with the architectural style, character and proportions of the existing house and will be in keeping with similar improvements in the neighborhood.
3. That the design of the proposal is compatible with its environment with respect to use, forms, materials, colors, setbacks, location, height, design, or similar qualities as specified in Section 17.58.010, Intent and Purpose, of Chapter 17.58, Architectural Control and Supervision, of the Foster City Municipal Code because 1) the prototypical design will provide guidelines to ensure that window and patio door replacements are orderly and consistent for all residential units in the development, and therefore, the

overall architectural style and characteristics throughout the planned development will be preserved; 2) the size of the replacement windows and patio doors will be the same size as the existing windows and patio doors; and 3) the replacement windows and patio doors will have a white vinyl frames with clear glass to match the existing windows.

4. That the proposal will not, under the circumstances of the particular case, be detrimental to the health, safety, morals, comfort and general welfare of the persons residing or working in the neighborhood of such proposed use, and will not be injurious or detrimental to property and improvements in the neighborhood or the general welfare of the City because the replacement windows will be compatible with the design of the house and the neighborhood and will not have any detrimental visual or privacy impacts on the adjacent properties and/or the streetscape as required by Section 17.58.010, Intent and Purpose, of Chapter 17.58, Architectural Control and Supervision, of the Foster City Municipal Code.

This action is subject to any conditions contained in Exhibit A, attached.

Expiration

Any Architectural Review approval shall, without further action, become null and void if not used within two (2) years from the date of approval thereof, or within any shorter or longer period of time if so approved by the Community Development Director.

Appeal

Pursuant to Section 17.06.150 of the Foster City Municipal Code, an action of the Community Development Director on an application may be appealed within ten (10) calendar days after the date of the Community Development Director's decision, in writing, to the Planning Commission. Appeals may be filed using the appeal form available in the Community Development Department or by letter. There is a fee for filing an appeal. All appeals must be filed in accordance with Section 17.06.150.

Acknowledgment by Applicant

Pursuant to Section 17.58.040.E of the Foster City Municipal Code, any Architectural Review decision shall not be effective until the permittee acknowledges acceptance of any conditions of approval and any appeal period has lapsed, or if there is an appeal, until a final decision has been made on the appeal. In order to demonstrate that you are aware of and understand the Architectural Review conditions of approval (attached hereto as Exhibit A), please sign the original of this letter and return it to the Planning/Code Enforcement Division. Please keep the duplicate for your records. *Please be advised that a Building Permit will not be issued until the Planning/Code Enforcement Division has received the signed Notice of Decision.*

Sincerely,


Richard B. Marks
Community Development Director

Planners Initials: KET


Eileen M. Greathouse
(Applicant's Name) (Please Print)

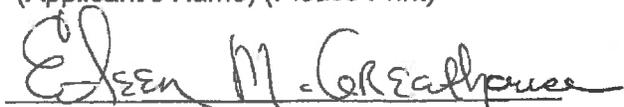

Eileen M. Greathouse
(Applicant's Signature)

EXHIBIT A

SAND HARBOUR NORTH HOMEOWNERS' ASSOCIATION Prototypical Design Guidelines for Replacement Windows and Patio Doors

The following guidelines shall govern the installation and replacement of windows and sliding glass doors in the Sand Harbour North Planned Development:

CONDITIONS OF APPROVAL

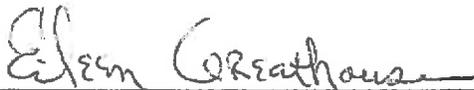
1. All construction shall be designed, constructed, installed, and maintained in a professional manner and appearance.
2. All materials and colors shall be as approved. Once constructed or installed, all improvements shall be maintained in accordance with the approved plans. Any changes which affect the exterior character of the work shall be resubmitted for approval. The construction or placement of unapproved features or unapproved changes to buildings or structures which were a part of approved plans can and will result in the issuance of a "Stop Work Order" by the City, the need to revise plans and obtain City approval for all changes prior to recommending work, and the possibility of penalty fees being assessed for unauthorized work.
3. Standard residential security requirements as established by Chapter 15.28 of the Foster City Municipal Code shall be provided.
4. Prior to any final building inspection approval, imposed conditions and all improvements shall be completed to the satisfaction of the City.
5. All architectural elements such as soffits, screens, etc. not shown or detailed on the plans shall be finished in a material and color in harmony with the exterior of the building.
6. All replacement windows shall have white vinyl frames similar or equivalent to the Brothers Home Improvement California Series such as the Simonton 7300 Style narrow frame.
7. The use of grids on replacement windows and doors is not allowed.
8. The patio sliding glass doors shall be similar or equivalent to the "Anlin" standard 2 panel and shall have white vinyl frames with integral fin.
9. The sliding glass doors and the window in the first floor in the dining room that extends to the floor shall have tempered glass (see Exhibit B).
10. The small windows located above the floor as shown on Exhibit B shall be non-operable.
11. All windows and sliding glass doors on the same elevation shall match in frame color and materials.

APPROVAL PROCESS

1. The homeowner or contractor shall apply for an Architectural Review Permit from the Planning/Code Enforcement Division and shall submit the following:
 - A letter indicating the action of the Sand Harbour North Homeowner's Association on the proposed window and/or sliding glass door replacements.
 - An Architectural Review application and filing fee (one-half the typical fee for windows).
 - Three copies of photographs or elevations indicating the location and size(s) of the windows.
 - Brochure or information on the proposed replacement windows.

2. The Planning/Code Enforcement Division staff will review the Architectural Review application to confirm that the proposal is consistent with the prototypical design approved for replacement of windows and sliding glass doors.

3. Following the completion of construction, within one week of completion, the applicant shall request a final inspection from the Planning/Code Enforcement Division.



Eileen Greathouse, Managing Agent
The Manor Association, for
Sand Harbour North Homeowners' Association

11/23/2004
Date



Richard B. Marks, Community Development Director
City of Foster City

11/23/04
Date

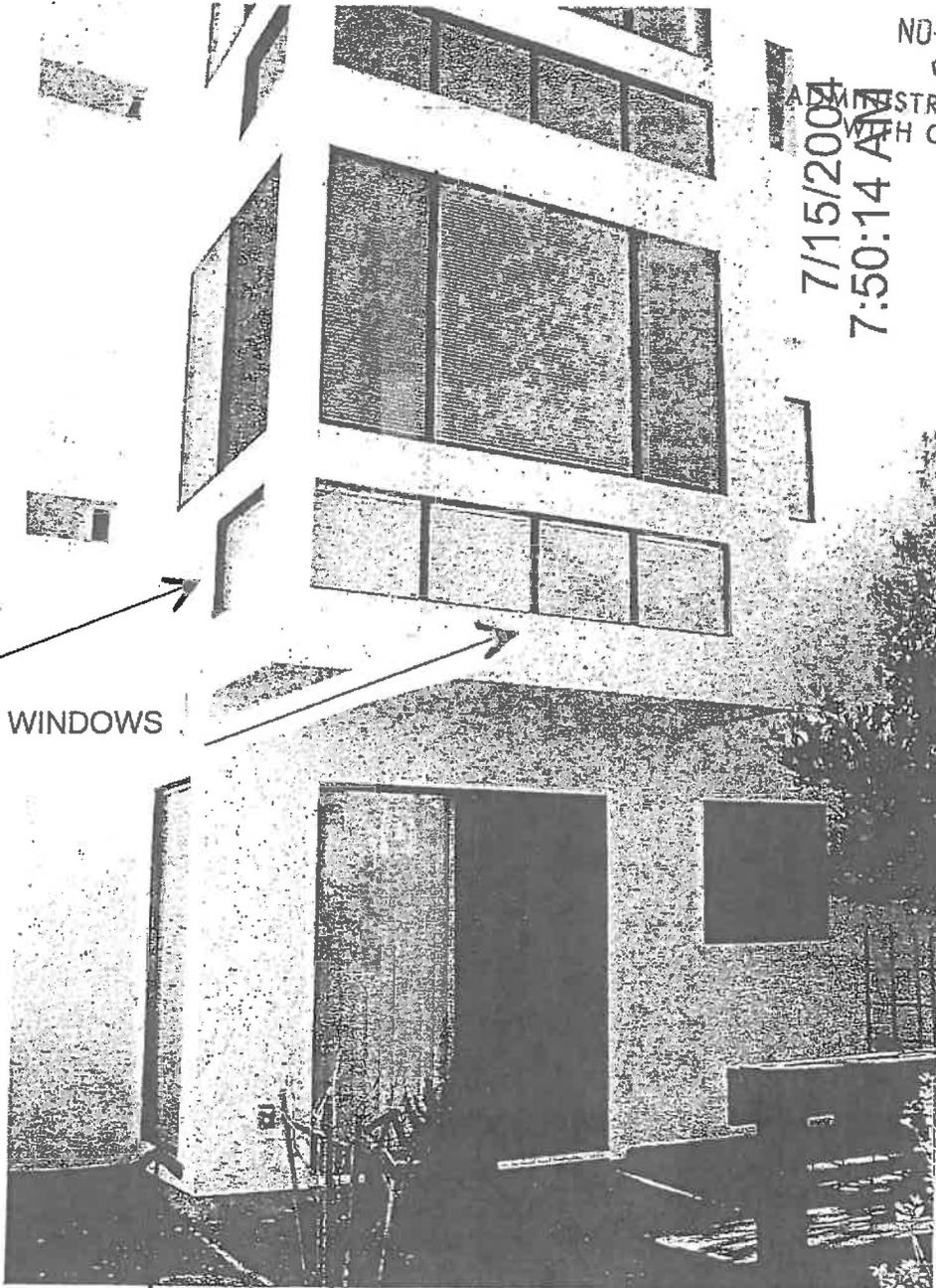
EXHIBIT B

UP-72-002F
CITY OF FOSTER CITY
PLANNING DEPARTMENT

NOV 23 2004

JG
ADMINISTRATIVE APPROVAL
WITH CONDITIONS
KEI

7/15/2004
7:50:14 AM



NON-OPERABLE WINDOWS

TEMPERED GLASS

 **SIMONTON**
Impressions®



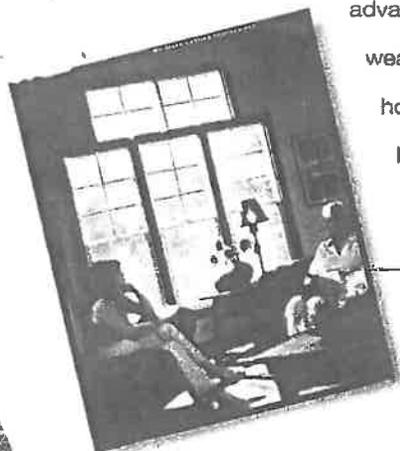
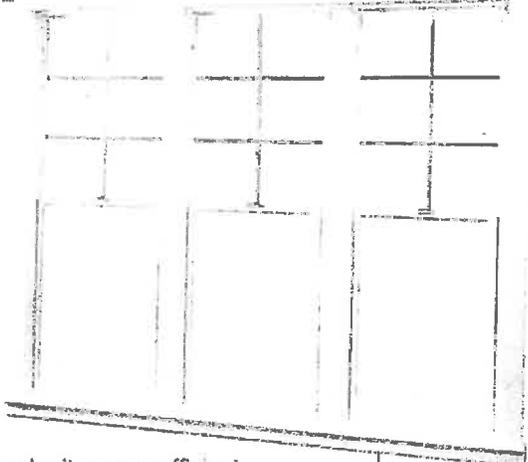
NARROW FRAME WINDOWS

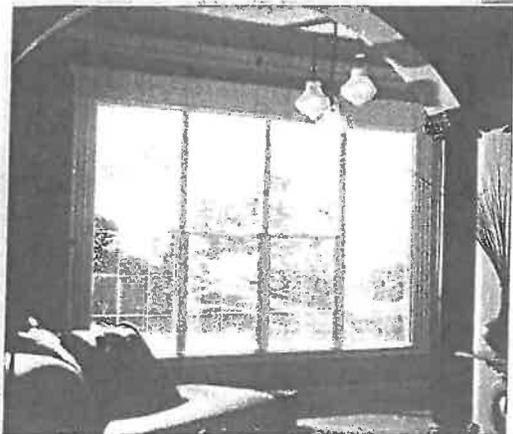


From positive and simple
elements can make a
beautiful window.

Featuring a 2-7/8" frame, the Simonton Impressions® Narrow Frame window has a slender design, with a contemporary look that performs on all levels. The Narrow Frame window is teeming with

advanced features that make it energy efficient, weathertight and strong. So, when the style of your home calls for a window that has simple, clean lines, the Simonton Impressions® Narrow Frame window is the right design – both inside and out.





NARROW FRAME WINDOWS



When it comes to dependability the Simonton Impressions® Narrow Frame window showcases innovative design features that will provide energy savings and protect against air and water penetration for years to come.

Narrow Frame Window Features:

2-7/8" Frame: Narrower frame offers a simple, streamlined look.

Welded Frame and Sash: Profiles are fused together to create a weathertight one-piece unit.

Multiple-chambered Profiles: Vinyl profiles are filled with dead-air chambers that increase window insulation.

Dual Fin Weatherstripping: Creates a weather-resistant seal around operable sash.

Integral Stucco Flange: Beautifully finishes area between the window and the outside of the home.

1-5/8" Nailing Fin: For new construction applications, extension is attached to frame for easy installation.

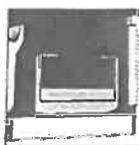
Air Lock™: Safely retains window in a partially open position for ventilation.

Double-strength Glass: Provides increased strength and energy efficiency.

Low E/Argon-filled Glass: Regionally specific glass package improves thermal performance year round.

Sensor Glass™: In addition to standard Low E/Argon-filled glass and double-strength glass panes, this optional glass package adds the remarkable Super Spacer® solid silicone foam spacer for the ultimate in energy efficiency.

Power Seal Spacer System™ All Narrow



*Power Seal
Spacer System™*

Frame windows feature Simonton's energy-efficient Power Seal Spacer System™. The dual-sealed system utilizes the U-channel Interceptor® spacer for

low conduction rates, and is combined with advanced adhesives that provide strength, moisture-resistance and thermal efficiency.

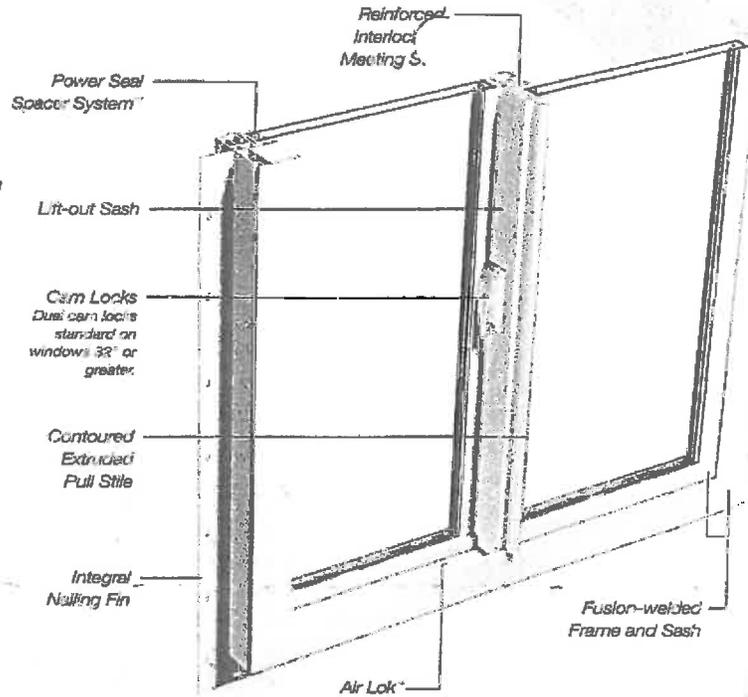
Slider

Reinforced Interlocking Meeting Stile
The overlapping, interlocking design creates a tight seal between the sash, and is reinforced to provide added strength.

Typhoon Rated Rollers Corrosion-resistant rollers provide years of smooth, trouble-free operation.

Contoured Extruded Pull Stile
Contoured rail is easy to grasp and molded into the sash for strength.

Lift-out Sash Panels Slider sash can be removed easily for cleaning and maintenance.



Single Hung

Stainless Steel Constant Force Coil Spring Balance System Securely holds sash in any position and will never need adjustment offering a lifetime of easy operation.

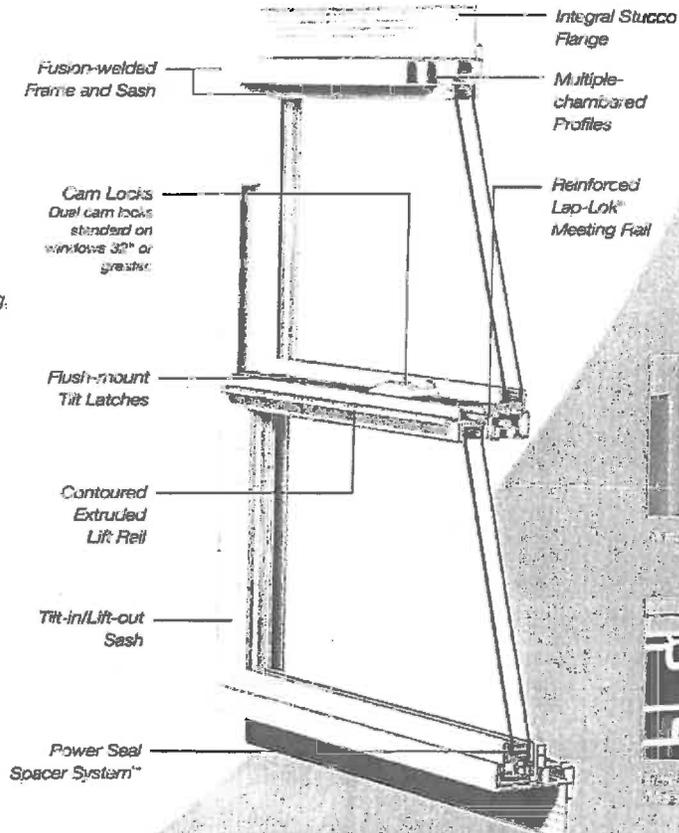
Reinforced Lap-Lok™ Meeting Rail
Tightly seals the sash with an overlapping, interlocking design that is reinforced for increased strength.

Denny Dillo™ Pivot System Keeps the sash in perfect alignment for smooth operation.

Flush-mount Tilt Latches Releases the tilt-in sash for trouble-free cleaning.

Contoured Extruded Lift Rail
Contoured and molded into the sash for strength, durability and easy operation.

Operable Sash Single Hung windows have one operable sash.

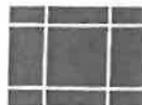


Warranty Simonton Impressions® windows and doors are backed by a comprehensive Lifetime Limited Warranty that covers the vinyl, hardware, screens and glass units.

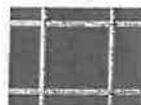


Single Hung windows tilt in for easy cleaning, while Slider windows feature a lift-out sash panel to help with window maintenance.

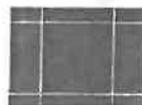
OPTIONS & FEATURES



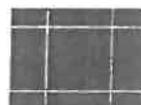
White Flat Colonial



Tan Sculptured Colonial



Pencil Brass Colonial



V-Groove



Rain



Glue Chip



Delta Frost

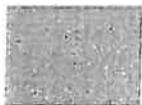


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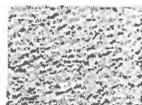


Grey Tint

Bronze Tint



Solarcool® Bronze



Obscure

Low E® 140



Flemish

Styles



Single Hung



2-lite Slider



3-lite Slider



Picture Capped Slider



Casement



Awning



Picture



Geometrics

Colors



White



Tan

Specialty Grids Between-the-glass grids allow easy cleaning, while providing a distinctive accent for your home. From flat and sculptured grids to assorted grid patterns and the elegant V-Groove style glass, a wide range of options helps you create the look you want.

Specialty Glass The benefits of specialty glass are varied – some provide increased safety, energy efficiency and privacy, while others add a stylish touch that will make your home unique.

Detailed information is available in the Glass and Grid Options brochure and from your Simonton Impressions® authorized dealer.



707 Aidridge Road, Vacaville, CA 95398 • 1-800-882-8922

Corporate Headquarters: SBR Office Park, 5300 Briscoe Road, P.O. Box 1646

Parkersburg, WV 26102-1646 • 1-800-SIMONTON • www.simonton.com

Bradenton • Ellenboro • Harrisville • McAlester • Paris • Parkersburg • Pennsboro • Vacaville

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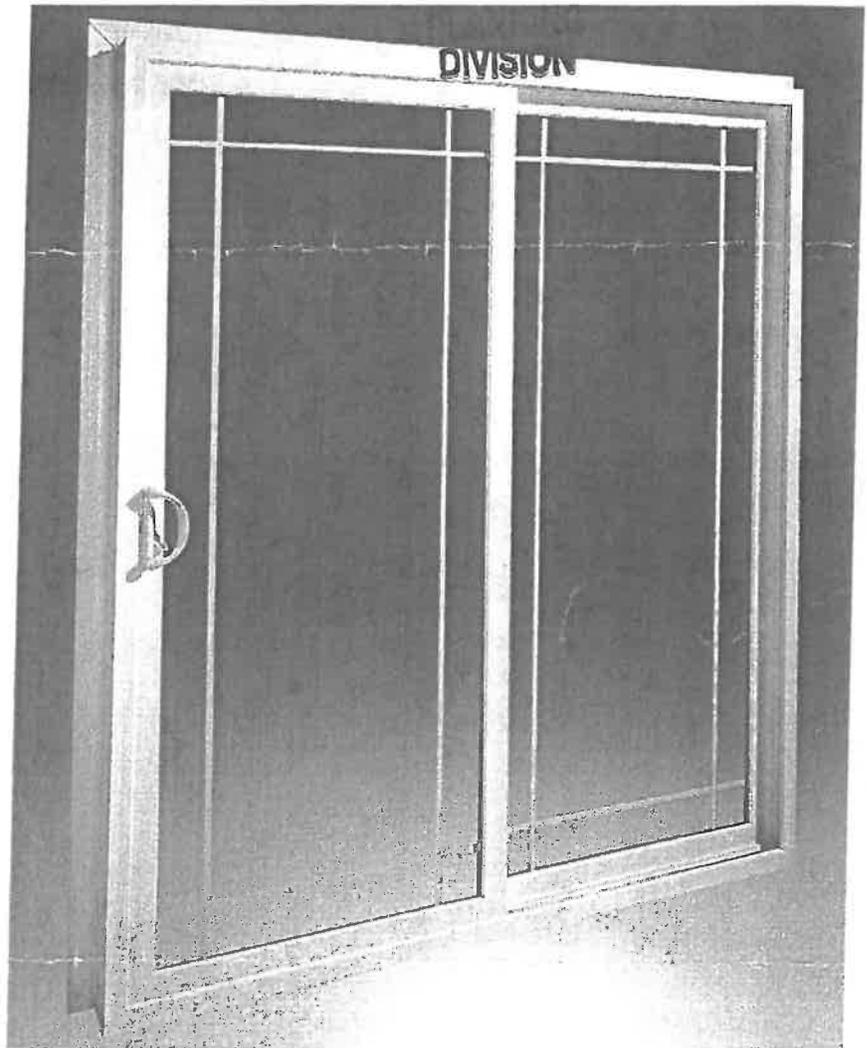


MALIBU™

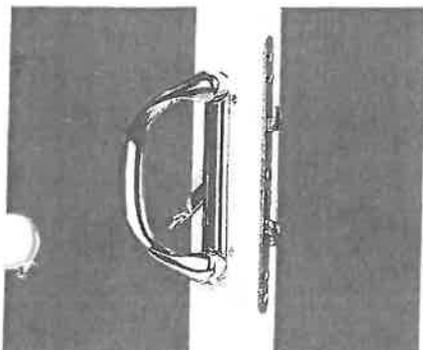
FOSTER CITY RECEIVED
VINYL SLIDING PATIO DOORS

NOV 12 2004

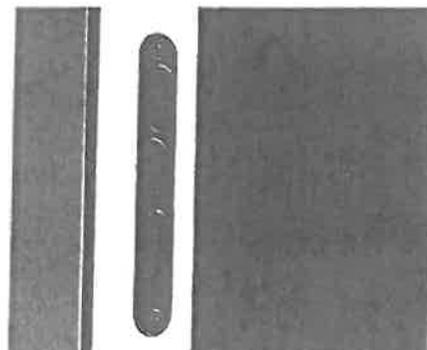
MALIBU... A beautiful, strong, and energy efficient choice for your home! Available as a standard patio door or "French" style sliding patio door. Standard patio doors come with 2 1/2" stiles and rails, "French" doors with 4 1/2" stiles and rails.



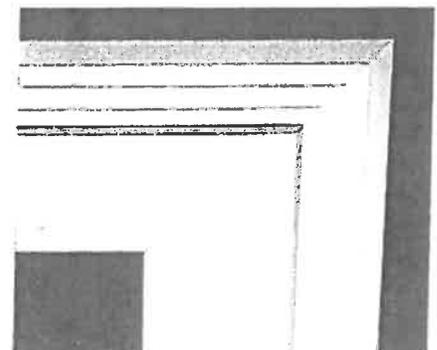
Queen Anne Grids & Standard White handle



Standard 2-Point Lock With Optional Gold Plated Handle



Recessed Screen Handle With Push-button Lock

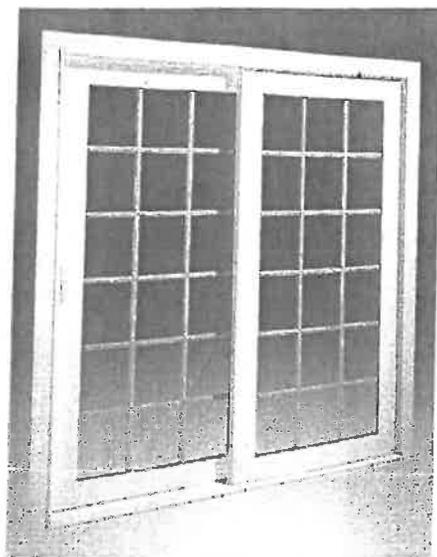


Beveled Frame with Integral Tapered Edge Retro-Fin

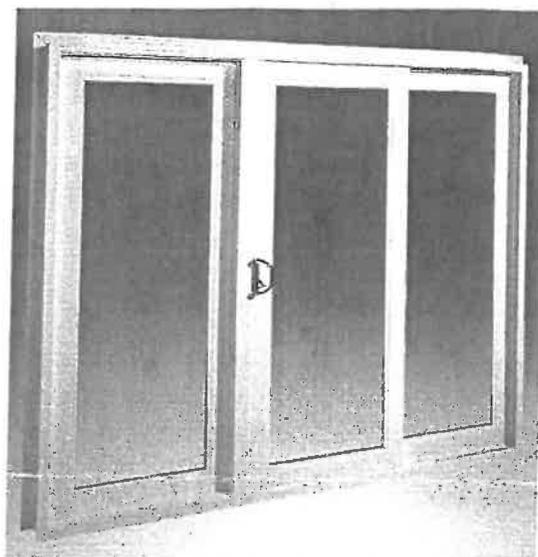
Malibu™ Standard and "French" Patio Doors

MALIBU Vinyl Sliding Patio Doors...

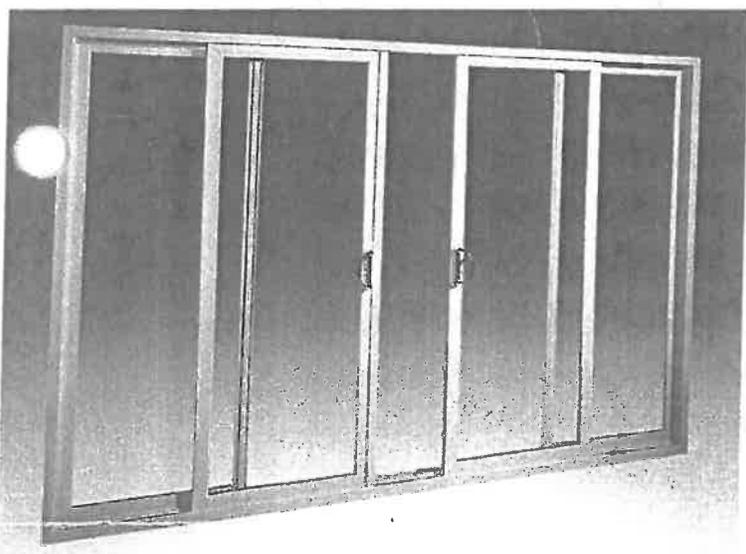
For a lifetime of beauty,
comfort, and energy savings.



"French" 4 1/2" Rail XO with Retro-Fin



"French" 4 1/2" Rail Center Vent OXO



2 1/2" Rail OXXO with Optional Gold handle

All doors are built with .100" thick vinyl walls that never need painting and have steel reinforced vertical stiles for strength, stability and security. The 7/8" insulated glass with 1/2" or 5/8" air space improves energy efficiency and is maximized with the optional INFINIT® high performance glazing system.

Available Operations:

XO, OX, XOO, OOX or OXO, & OXXO

Quality Standard Features:

All corners are thermal fusion welded, for strength and a watertight seal.

White or Tan vinyl: color-matched handles.

E-Z Glide tandem oversized rollers for easy operation.

Safety tempered glass, 1/8" or 3/16" thick.

ENERGY STAR qualified, 2 1/2" door with optional INFINIT® ... U=.33 & SHGC=.29.

Two-point lock; passed stringent California Forced Entry (CFE) resistance tests.

Extruded screen frame & self-latching fingerpull recessed metal handle with button lock.

Lifetime Limited Warranty (Transferable); non-prorated, including dual pane seal.

Available Sizes:

Widths from 5' to 12' by 6'8" High, or

Widths from 5', 6' and 8' by 8' High.

Optional Upgrade Features:

- INFINIT® high performance glazing system for energy savings, UV protection, and added comfort.
- Integral Retro-Fin frame to trim exterior.
- Gold Plated handle; inside or inside & out.
- Exterior Keyed Lock.
- Internal grid bars; flat (5/8") or sculptured (5/8" or 1" wide).
- Dead bolt (1/2") top mounted; extra security.

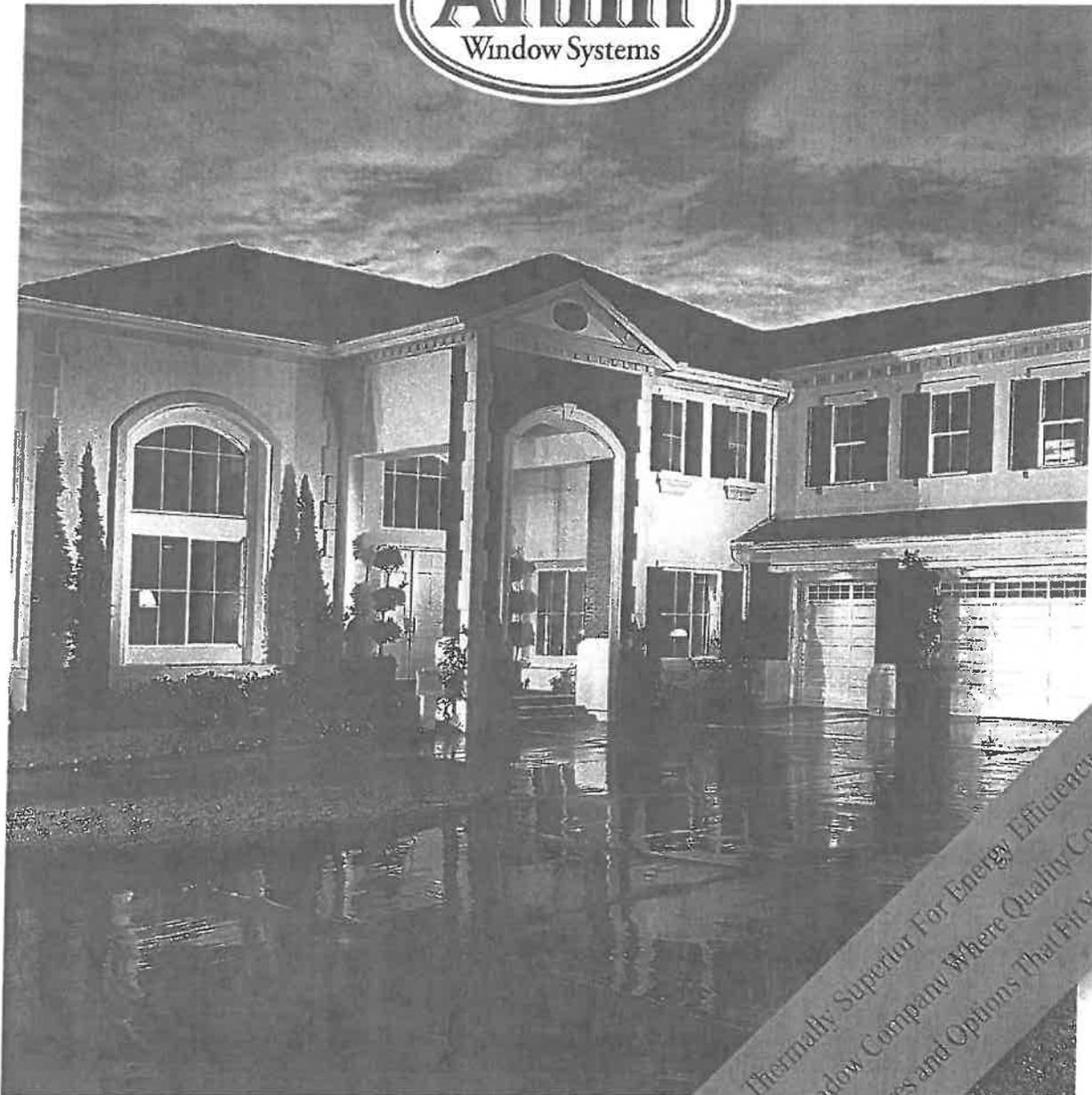
CATALINA™

S E R I E S V I N Y L W I N

**FOSTER CITY
RECEIVED**

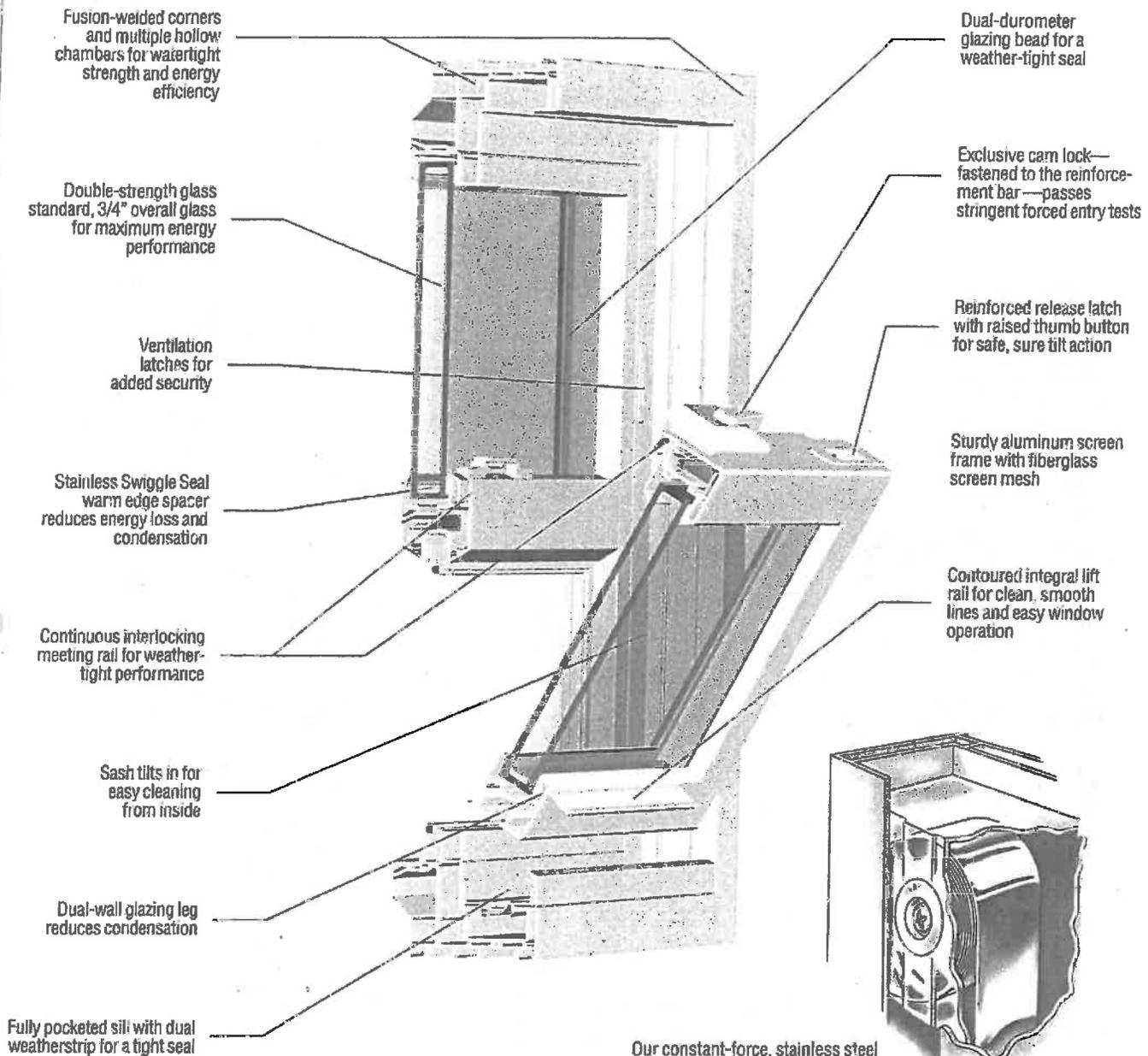
NOV 12 2004

**PLANNING
DIVISION**

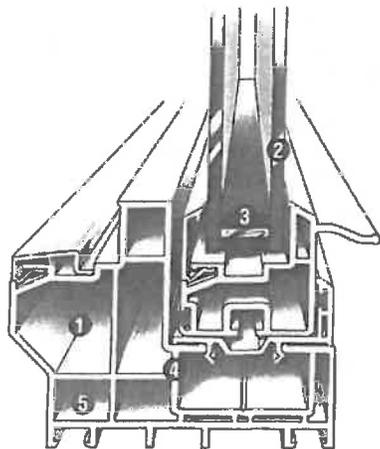


- Thermally Superior For Energy Efficiency
- Use a Window Company Where Quality Comes First
- Get Features and Options That Fit Your Needs

Get Features and Optic



Our constant-force, stainless steel balance system is engineered for easy, smooth operation.

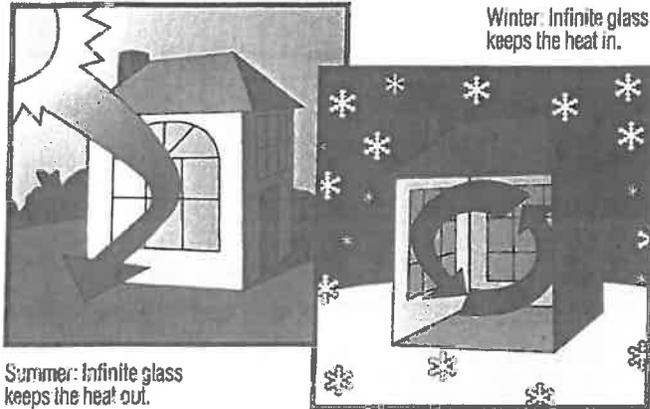


Advanced Design and Engineering

- 1) *Multiple hollow chambers for strength and insulation.*
- 2) *Dual-pane insulated glass with double-strength glass (standard).*
- 3) *Stainless Swiggle® Seal warm edge technology for superior thermal performance and reduced condensation (standard).*
- 4) *Thick vinyl walls for added structural integrity.*
- 5) *Built-in drainage to the exterior.*

is That Fit Your Needs

INFINIT^e High Performance Glazing System



The Infinite High Performance Glazing System combines a patented, two-layer, heat reflective silver coating on the glass with Stainless Swiggle® Seal warm edge technology. Available only from Anlin Windows, this spectrally selective glazing system controls heat and sunlight for year-round comfort and savings. It also reduces fading caused by ultra-violet sunlight.

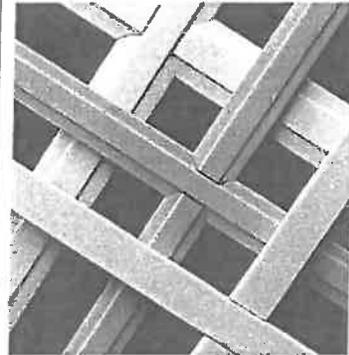
Spacer	Total Window "R" Values
Aluminum Spacer Bar	2.5
U-Channel Spacer	2.56
Silicone Foam Spacer	2.58
STAINLESS SWIGGLE SEAL	2.62

Stainless Swiggle Seal tested in identical windows at an independent laboratory, proved superior in thermal performance. Source: TruSeal Technologies.



WHITE OR TAN COLORS

Catalina vinyl windows are available in two easy-to-clean colors: white or tan. Both colors are integrated throughout the vinyl making scratches and scuffs harder to see.



THREE DIFFERENT GRID STYLES

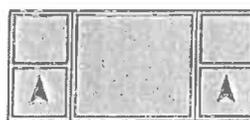
Catalina vinyl windows features three different grid styles: 5/8" wide Flat, 5/8" Sculptured, or 1" wide Euro. These metal grids are color matched, mitered at the intersections, and sealed inside the glass panes for easy window cleaning.

Choose the Window Configuration That's Right for You

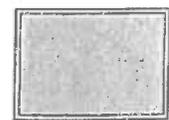
Catalina series vinyl windows are available in many styles and configurations to enhance the beauty and appearance of your home.



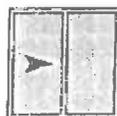
SINGLE-HUNG



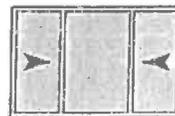
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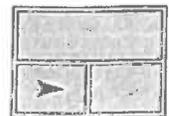
PICTURE WINDOW



SINGLE SLIDER



XOX SLIDER



UNDER SLIDER

THERMAL PERFORMANCE DATA

Catalina windows with Infinite glass leads the industry in thermal performance.

Window Style	UV Block ¹	Visible Light Transmittance ²	Total Unit U-Factor ³	Solar Heat Gain Coeff. ⁴
Single-Hung (Standard Double-Pane Clear)	42%	82%	0.48	0.59
Single-Hung (INFINITE)	86%	70%	0.33	0.29
Single-Hung (INFINITE with Argon)	86%	70%	0.29	0.29
Single-Slider (Standard Double-Pane Clear)	42%	82%	0.48	0.56
Single-Slider (INFINITE)	86%	70%	0.33	0.27
Single-Slider (INFINITE with Argon)	86%	70%	0.29	0.27
Picture Window (Standard Double-Pane Clear)	42%	82%	0.48	0.66
Picture Window (INFINITE)	86%	70%	0.32	0.32
Picture Window (INFINITE with Argon)	86%	70%	0.28	0.32

¹ Ultraviolet (UV) light block calculations performed using Lawrence Berkeley Laboratories Window 4.1 program. Percentages indicate amount of UV transmittance to the interior using a 3/4" glazing unit.

² Visible light transmittance indicates the amount of outside light reaching the interior as calculated using center of glass. Higher percentages mean more outside light reaches interior.

³ U-factor: represents the amount of heat transfer as measured in accordance with NFRC 10C-97, calculation uses total window unit, and assumes 3/4" glazing with a 1/2" airspace. Lower is better.

⁴ Solar heat gain coefficient (SHGC) measures the amount of solar radiation entering the building. As measured per NFRC 200 with the Window 4.1 and Frame 4.1 modeling programs. Lower is better.

CERTIFIED TO MEET OR EXCEED EXPECTATIONS All Anlin windows are AAMA and NFRC certified, and ENERGY STAR® qualified with:

INFINITE
High Performance Glazing System



OUR MANUFACTURING PLANT

Anlin Window Systems' advanced technology manufacturing plant is located in central California.



Your Authorized Anlin Window Systems Dealer:

Custom Exteriors, Inc.
1(888) 957-7800
440 Boulder Court, Suite 400
Pleasanton, CA 94566



Certainteed Insulate Series

CertainTeed Insulate Series

W I N D W S

Beauty, Protection,
Performance

D Urquhart
1067 Shell Blvd. Apt. 12
Foster City, CA 94404

CertainTeed E

Since 1904

Equivalent to Simm tm 7300 Neumylene

Why choose CertainTeed Insulate Series windows and doors?

Thermal efficiency.

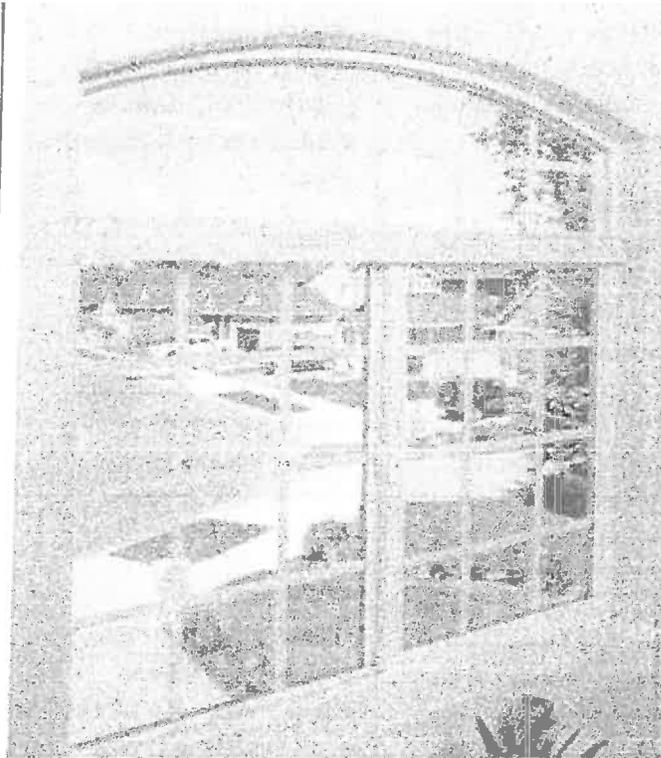
CertainTeed Insulate Series Windows are designed to provide maximum energy efficiency. A multiple chambered frame and minimum 1/2" airspace minimize heat conduction and increase energy savings. The glazing tape is not exposed to the elements and is less likely to deteriorate.

With CertainTeed's optional Thermafect glazing system including Thermafect Low "E" glass, low-conductance spacer and argon gas, Insulate Series windows meet ENERGY STAR® guidelines while enhancing the structural integrity of the overall window.

Product construction.

Aluminum reinforcement in the meeting rail is standard in Insulate Series slider and single-hung windows to provide extra strength in the frame and a solid anchor for the cam lock strike mechanism.

Anti-lift blocks are a standard feature on slider windows and make it virtually impossible for the sash to be removed from the outside. The window



must be completely open before the sash can be lifted out of the frame.

Easy operation.

Brass rollers are standard on slider windows and are not susceptible to warping as they glide evenly over the track, ensuring smooth operation for the life of the window.

Optimum product performance.

The low point-high pressure weep system keeps moisture on the outside. The weep channel is

recessed below the track creating the low point. At this point the pressure is the highest, forcing water out of the frame.

An optional sound control package significantly reduces sound transmission to increase the quiet, comfort and sense of privacy in your home.

Continuous weather stripping provides airtight protection to keep your home draft-free.

A variety of options.

Pre-punched nail fin options – flush fin,

1", 1-3/8" and J-channel – are available for easy-fit installation in both new home construction and remodeling applications.

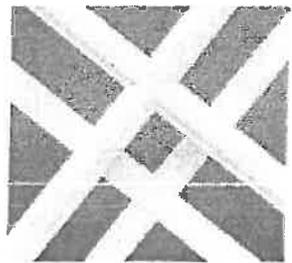
The optional Insulair Passive Fresh Air Ventilation System has an attractive, streamlined look with a no-hood design to provide ventilation without opening the window.

It includes an installed insect screen.

Color choices: white or almond.



Grids between the glass are color coordinated. Sculptured or flat grids are installed between the glass panes during manufacturing for easy glass cleaning.



Lifetime 20-year transferable warranty.

Allows you to choose CertainTeed windows with confidence.

Specifications

System Description

Window and patio doors to be manufactured with polyvinyl chloride (PVC) frames. All units to be exterior glazed using a closed-cell foam glazing tape. Glazing to be insulating units utilizing 1/2" airspace. Product corners shall be miter cut and fusion welded with integral nail fin pre-punched for nailing.

Performance

Windows shall be selected by the design professional to meet all applicable local codes. All Insulate Series windows meet or exceed AAMA/NWDA 101/LS-2-97 standards. Actual performance results may vary by style, type of glass and size. Those results range from Grade 15 to Grade 55, providing options for applications requiring higher grade ratings.

Additionally, Insulate Series windows are tested to AAMA 1302.5.76 CMBSO/CAWM 301-90

Forced Entry Resistance Test for windows, and CMBSO 1-79 and CAWM 300-89 Forced Entry Resistance Test for sliding glass doors.

Materials

Product shall be constructed of multi-chambered, hollow PVC extrusions. High-impact, UV-resistant PVC extrusions shall be AAMA certified and tested per ASTM specification ASTM D-4726-92. Extruded aluminum or roll-formed steel reinforcement bar will be used in key places. Product shall be glazed with IG units that conform to ASTM E774-92 Class A requirements with minimum 1/2" airspace, desiccant and hot-melt butyl or poly sulfide sealant.

Hardware

Hardware to be manufacturer's standard which shall be stainless steel, brass or other corrosion-resistant materials. Powder-coated or baked

enamel finishes shall be color-coordinated on all exposed hardware. Wide brass rollers (11/32" wide by 7/16" diameter) shall be used on horizontal sliders.

Glazing

Product shall be exterior glazed using double-backed foam tape and applied PVC glazing bead. All cavities around glazing shall be designed to readily weep water away from the insulating glass unit.

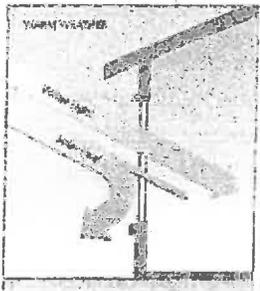
Warranty

All windows and sliding glass doors for single family residences shall be warrantied for life to the original purchaser of the dwelling. Warranty shall be non-prorated, and includes parts, materials, glazing unit seal and labor. See actual warranty for full details.

Thermafect Low "E" Glazing System

Low "E" glazing reflects the sun's long-wave heat in the summer while allowing short waves of light to brighten your home. In the winter Low "E" glazing locks in your home's heat while letting in the short waves of light.

Argon gas is a safe, odorless, colorless gas that's heavier than air and suppresses the conduction of heat and cold between glass panes.



CertainTeed's Thermafect™ Low "E" glass delivers balanced performance. In cold weather, it reflects heat back into your rooms, while allowing sunlight to pass through and add free warmth. In warm weather, it reflects solar heat away, while letting in high levels of visible light for a natural view.

CertainTeed Insulate Series windows with the Thermaflect® Low "E" glazing system offer industry-leading thermal performance.

Test Performance Data

Window Style	Air Filtration	Water Resistance	Structural Performance	Sound Transmission Class	U Value:	
					Clear/Argon	Thermaflect Argon
Slider	.1 cfm/ft.	No leakage at 3.7 psf	No damage at 37.5 psf	35 with 1/4"/1/8" glazing; 5/8" gap glazing	.49	.34
Picture	.1 cfm/ft.	No leakage at 12 psf	No damage at 52 psf	35 with 1/4"/1/8", 5/8" gap glazing	.46	.29
Single-Hung	.2 cfm/ft.	No leakage at 5.25 psf	No damage at 52 psf	36 with 1/4"/1/8", 5/8" gap glazing	.50	.34
Casement	.1 cfm/ft.	No leakage at 7 psf	No damage at 67.5 psf	34 with 1/4"/1/8", 5/8" gap glazing	.43	.30
Awning	.1 cfm/ft.	No leakage at 6 psf	No damage at 60 psf	34 with 1/4"/1/8", 5/8" gap glazing	.43	.30
Hinged Door	.1 cfm/ft.	No leakage at 3.75 psf	No damage at 37.5 psf	Not Available	.46	.33
Patio Door	.1 cfm/ft.	No leakage at 5.25 psf	No damage at 90 psf	35 with 7/32" laminated glazing	.48	.32

Test results are based on standard unit, including frame. Performance ratings for Slimline series are available upon request. Due to continued product testing, please contact CertainTeed or your Insulate dealer for the most current test performance data.

Air Infiltration tested per ASTM E283-91

Water Resistance tested per ASTM E547-86

Structural Performance/Wind Load tested per ASTM E330-90

Sound Transmission Class tested per ASTM E90-90 in accordance with ASTM E413

Glossary of performance terms.

■ **Low "E":** Low-emissivity glass is coated with a microscopically thin metallic layer that allows visible light to pass through, while blocking ultraviolet and infrared solar energy and reflecting away long-wave room-side heat energy. Different types of Low "E" coatings offer varying levels of performance for each of these tasks.

■ **U-Value:** The rate of heat flow through a glazing system; the lower the value, the better the insulating quality. U-value can be compared to R-value by dividing 1 by the U-value. (Thus, a U-value of 0.5 equals an R value of 2.)

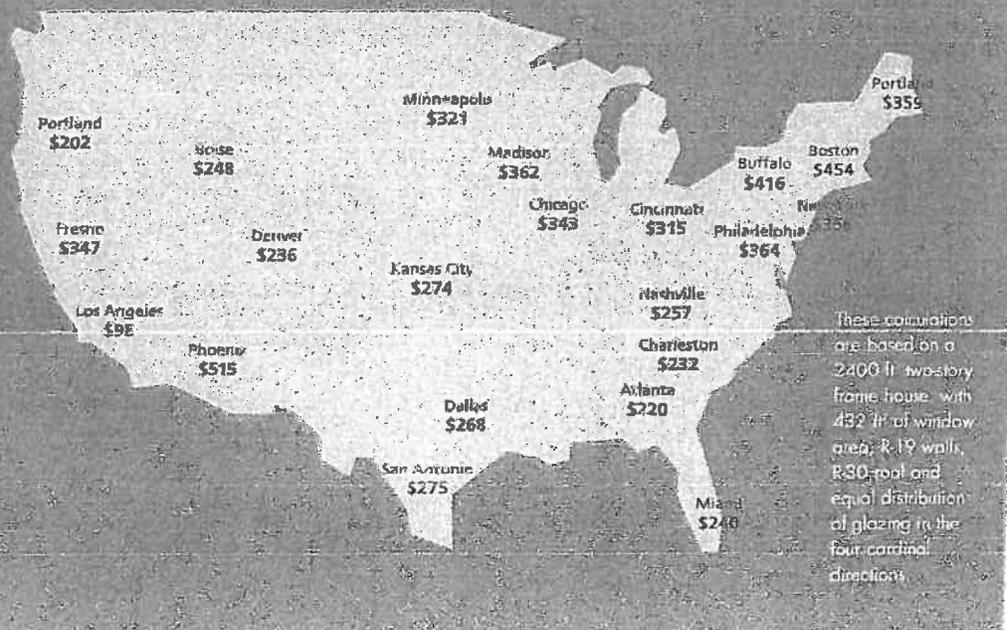
■ **Daylight Transmittance:** Measures the amount of visible light that is transmitted through the glass.

■ **UV Block:** Measures the amount of damaging ultraviolet light that is blocked from being transmitted through the glass.

■ **Solar heat gain Coefficient:** The amount of direct solar radiation that enters through the glass into the home as heat. The smaller the number, the better the glazing is at preventing solar heat gain.

How much money can Thermaflect® save you?

Whether your winters are snowy and long, or the sun rides high every day, Thermaflect's balanced performance can help reduce the cost of keeping your home comfortable. The map shows the calculated savings in energy costs for an average home in which the windows have been changed from aluminum windows with single-pane glass to vinyl windows with the Thermaflect glazing system.



Insulate Series Slimline Patio Door



Features and Benefits

- Fusion welded corners in frame and panels
- Low-point, high-pressure weep system pulls water out of the frame
- Multiple chambers minimize heat conductance
- Pre-punched nail fin
- Minimum 1/2" air space offers maximum energy efficiency

Standard Configurations Shown

- Frame depth 4 1/4"
- Fin setback 1 3/16"
- 3/4" overall insulated glass
- Adjustable strike
- Stainless steel, face-adjustable tandem rollers
- Steel reinforced lead and interlock stiles
- Reversible panels – even after installation with no deglazing required

Options

- White or Almond
- Keylock (Schlage compatible)
- Secondary shoot bolt in the head
- Flat grids
- Single glaze available
- Heavy-duty aluminum screen
- Integral J-channel

Test

Performance Data

Air Infiltration:

.1 cfm/ft

Water Resistance:

No leakage at 5.25 psf

Structural Performance:

No damage at 45.0 psf

U Factor:

Clear/Air .50

Thermafect®/Argon .32

Performance Class:

C-30

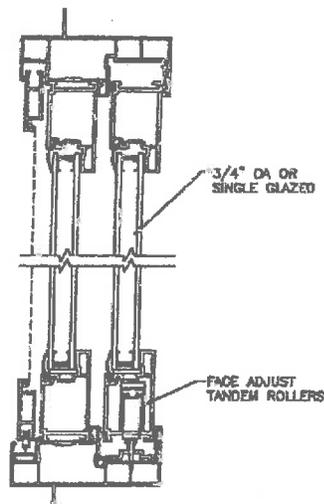
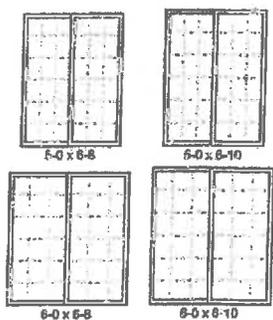
Test Performance Descriptions:

Air Infiltration tested per ASTM E 283-91.

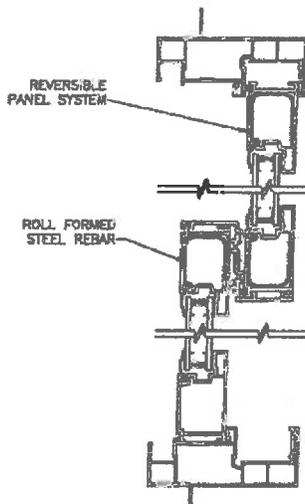
Water Resistance tested per ASTM E 547-86.

Structural Performance/Wind Load tested per ASTM E 330-90.

Thermal Performance tested per NFRC 100.



Vertical Section



Horizontal Section

Performance, support and value you can count on.

You're making a big decision. But when you choose CertainTeed windows and patio doors, you can have the confidence that you're making an investment in value for the long term. For a century, CertainTeed has been the name to trust in building products.

Performance Standards.

CertainTeed Insulate Series windows and patio doors are manufactured to strict CertainTeed quality standards. CertainTeed and its fabricators participate in the NFRC (National Fenestration Rating Council) Thermal Performance Rating Program.

	CertainTeed High Performance Windows Insulate Series Slider Vinyl Frame
THERMAL PERFORMANCE RATINGS	
U-FACTOR	0.35
SHADING COEFFICIENT	0.34
COMBINED U-FACTOR RATING	
U-FACTOR	0.51

CertainTeed products are certified by AAMA/WDMA for air, water, and structural performance. All certified products include compliance with independent insulating glass seal integrity testing procedures. CertainTeed windows with the proprietary Thermaflex® Low "E" glazing system with low-conductance spacer and argon gas deliver optimum thermal performance. They meet the ENERGY STAR® guidelines for thermal efficiency in all climate regions, helping to save energy costs in both hot and cold weather.

Value Added Services.

CertainTeed offers a wide range of support for homeowner, with services designed to make it easier to use our windows and patio doors.

Web Site.

The Internet gives us lots of new ways to help homeowners, from providing you with quick and easy access information to helping you find a contractor or dealer in your area. At www.certainteed.com, you can find product information and technical data on all our windows and doors. Professionals are listed in our website after they successfully complete the Window Master Craftsman credential program. Plus, you can contact us via e-mail with any questions you might have regarding our products, installation techniques and more.

Call 800-227-3699 for toll-free professional assistance.

Our Sales Support Group has highly trained specialists who are ready to assist you with the window and patio door information and services described on this page. Whether you need technical or product information, sales literature, and more, our window experts can help.

Warranty.

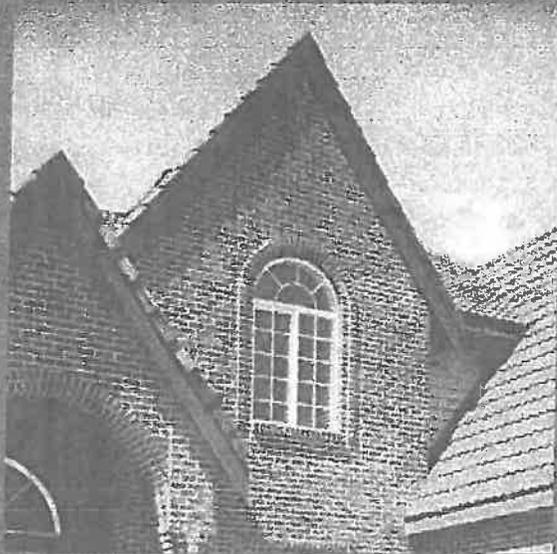
CertainTeed windows and patio doors are backed by the strongest warranty in the industry. We offer a Lifetime 20-year transferable warranty that protects you against manufacturing defects for as long as you own your home.



That demonstrates CertainTeed's confidence. And it's your assurance of value now and in the future.

CertainTeed Insulate Series

W I N D O W S



CertainTeed. Leading in value since 1904.

CertainTeed has long stood for innovation and value in the building materials industry — today producing vinyl windows, roofing, vinyl and fiber cement siding, fiber glass insulation, pipe, fence, deck, and railing through facilities nationwide.

Our commitment to the principles of "Quality made certain, satisfaction guaranteed" has made CertainTeed a name you can choose with confidence. Visit our website at www.certainteed.com.



CertainTeed Insulate Series windows with the Thermoclear[®] glazing system meet the ENERGY STAR[®] guidelines for thermal efficiency in all climate regions.

CertainTeed

Quality made certain. Satisfaction guaranteed.