Architectural Manual

Tuscany® Series
Montecito® Series

Premium Vinyl Windows & Patio Doors

Milgard Windows & Doors
Clearly the best.
Instructions on how to use this manual:

This document has been designed for easy navigation and to quickly click to the section you need. Here's some important tips on using this document:

• Any item print in red, will click through to the corresponding item.

• Click to any item in the Table of Contents on page 3. Click on the Milgard logo at the top of any page to return to the Table of Contents - FULL MANUAL ONLY.

• From each section’s Quick Links page, click to any Drawing listed.

• From any Drawing page, click the “Go Back to Quick Links” box on the bottom right of the page to return to the list of drawings.

• Click on the links on the bottom of the page to go to Revit, SketchUp . PDF and .DWG files. Please note that you must have internet access for these links and you will be re-directed to the Milgard site.

• This document can also be navigated from Adobe Acrobat Bookmarks.

Revit, SketchUp, .PDF and .DWG files can be accessed at milgard.com/professionals or clicking here:

Tuscany Series Architectural Library
Montecito Series Architectural Library
Contents

Differences between Tuscany and Montecito Series _ 4
   New Construction vs. Retrofit__________________________4
   Screens ____________________________________________4
   Awning and Casement Hardware ______________________4
   Glass Breakage Coverage ____________________________4
Components _________________________________________4
   Available Operating Styles __________________________4
   Frame _____________________________________________4
   Frame Differences __________________________________5
   Block Frame ________________________________________5
   Z-Bar (Standard and Wide) ___________________________5
   Fin Setbacks ________________________________________5
   Weep System ________________________________________5
   Glazing Material ____________________________________6
   Vent Panel _________________________________________6
   Weatherstripping ___________________________________6
   Roller Assembly _____________________________________6
   Locking Assembly ____________________________________6
   Screen _____________________________________________6
Options _____________________________________________7
   Grids ______________________________________________7
Window Hardware ____________________________________8
   SmartTouch® Lock __________________________________8
   Tuscany Awning/Casement Handle______________________8
   Montecito Awning/Casement Handles ________________8
Door Hardware ________________________________________9
   SmartTouch® Interior Door Handle ____________________9
   Decorative Interior Handle __________________________9
   Swing Door Handle __________________________________9
Premium Exterior Vinyl Finishes ________________________10
Full Lifetime Warranty _______________________________11
Awning Window ______________________________________12
   Configurations ____________________________________13
   Minimum/Maximum Sizes _____________________________13
   Available Frame Styles ______________________________13
   Drawings - Quick Links ______________________________14
   Awning Window _____________________________________15
   Fixed Awning Window ________________________________24
Casement Window ____________________________________32
   Configurations ____________________________________33
   Minimum/Maximum Sizes _____________________________33
   Available Frame Styles ______________________________33
   Drawings - Quick Links ______________________________34
   Casement Window __________________________________35
   Fixed Casement Window ______________________________48
Horizontal Sliding and Double Horizontal Sliding Window __57
   Hz Configurations __________________________________58
   Hz Minimum/Maximum Sizes __________________________58
   Hz Available Frame Styles __________________________58
   DHz Configurations __________________________________59
   DHz Minimum/Maximum Sizes __________________________59
   DHz Available Frame Styles __________________________59
Picture and Radius Window ____________________________80
   Configurations ____________________________________81
   Minimum/Maximum Sizes _____________________________81
   Available Frame Styles ______________________________81
   Drawings - Quick Links ______________________________82
   Picture Window _____________________________________83
   Radius Window ______________________________________92
Single Hung and Double Hung Window ________________101
   SH Configurations __________________________________102
   SH Minimum/Maximum Sizes __________________________102
   SH Available Frame Styles ____________________________102
   DH Configurations __________________________________103
   DH Minimum/Maximum Sizes __________________________103
   DH Available Frame Styles ____________________________103
   Drawings - Quick Links ______________________________104
   Single Hung Window ________________________________105
   Double Hung Window ________________________________117
Bay & Bow Window ___________________________________123
   Configurations ____________________________________124
   Minimum/Maximum Sizes _____________________________124
   Available Frame Styles ______________________________124
   Drawings - Quick Links ______________________________125
   Bay Window Drawings ________________________________126
   Bow Window Drawings ________________________________130
Cable Bay Window ____________________________________134
   Configurations ____________________________________135
   Minimum/Maximum Sizes _____________________________135
   Available Frame Styles ______________________________135
   Cable _____________________________________________135
   Seat Boards ________________________________________135
   Drawings - Quick Links ______________________________136
   Support System Installation Guide ____________________137
   Cable Bay Window Drawings __________________________139
Sliding Patio Doors ___________________________________167
   Configurations ____________________________________168
   Minimum/Maximum Sizes _____________________________168
   Available Frame Styles ______________________________168
   Drawings - Quick Links ______________________________169
   Sliding Patio Door __________________________________170
   French Sliding Patio Door ____________________________183
Swing Patio Doors ____________________________________195
   Configurations ____________________________________196
   Minimum/Maximum Sizes _____________________________196
   Available Frame Styles ______________________________196
   Drawings - Quick Links ______________________________197
   French In-Swing Patio Door ___________________________198
   French Out-Swing Patio Door __________________________201
About Tuscany® & Montecito® Series

Differences between Tuscany and Montecito Series

Tuscany and Montecito Series windows and doors are aesthetically the same but there are some important differences:

New Construction vs. Retrofit

Tuscany Series can be used for new construction or retrofit applications as it offers block frame and Z-bar frames in addition to nail fins.

Montecito Series is only available with nail fins and used for new construction exclusively (see page 5).

Screens

PureView® premium mesh screens with a pull rail frame are available on Tuscany Series only. Montecito Series come with standard screens.

Awning and Casement Hardware

Tuscany Series awning and casement windows come with folding nesting hardware while Montecito Series comes with standard hardware (see page 8).

Warranty

Both products come standard with the Full Lifetime Warranty, and only Tuscany Series comes with Glass Breakage Coverage.

Components

Available Operating Styles

Find frame styles for each operating style:

Awning
Fixed Awning
Casement
Fixed Casement
Horizontal Sliding (Half Vent)
Double Horizontal Sliding
Single Hung
Double Hung
Picture/Radius
Bay/Bow
Cable Bay
Sliding Patio Door
Swing Patio Door

Not all operating styles available at all Milgard locations. Contact your sales representative for more information.

Frame

Tuscany Series and Montecito Series frame components are made of a high performance uPVC, rigid polyvinyl chloride material, custom compounded for superior impact resistance, color retention and weather resistance. The frame and sash corners are all precision mitered and fusion welded for a lifetime of air and water resistance.
The Tuscany Series and Montecito Series meets or exceeds the AAMA/WDMA/CSA 101/I.S.2/A 440-05 Industry Specification for Windows and Doors. They are also tested for Forced Entry Resistance to the ASTM F588-97 standard, Grade 20 level. Each window is labeled with the NFRC Energy Star performance information, based on the type of glazing you select.

Frame Differences
Tuscany and Montecito have the same aesthetic design but there are differences in the frame and the applications they are used. Montecito Series is primarily used in new construction applications and comes with various nail fins. Tuscany Series can also be used in new construction with the same nail fin options, but is also available in retrofit applications such as block frame and Z-bar.

Here are the details on each:

Block Frame
(Tuscany only)
The block frame style is a window frame profile without a nail fin. The block frame allows an installer to insert the replacement window into the existing frame, without disturbing the home’s internal or external wall surfaces. Installation method includes carefully drilling through the jamb.

Z-Bar (Standard and Wide)
(Tuscany only)
Two extruded Z-bar frame choices are available with Tuscany series, standard (1-5/8”) and wide (2-1/8”). Z-bar installation, the method of removing the aluminum or steel sash but leaving the frame in place, is ideal with aluminum retrofit in stucco applications and can save a significant amount on installation costs.

Nail-On Fin
(Tuscany and Montecito)
1-1/4” or 2” fin widths available.

A pre-punched nail flange extends around the perimeter frame, securing the window in rough openings and acting as a part of the flashing system.

Fin Setbacks
(Tuscany and Montecito)
- 1-3/8” nail fin setback (1-1/4” or 2” pre-punched nail flange)
- 1” nail fin setback with stucco key (1-1/4” pre-punched nail flange)

The 2” pre-punched nail flange frame also has an exterior accessory groove which allows for optional J-channel trim:
- 2” Brickmold
- 1” Contour
- 3/4” Flat

The 2” brickmold is applied in the field on the window, and snapped in-place after window installation. The 1” contour and 3/4” flat J-channel options are welded in place at the factory.

All trim options are extruded by Milgard and are available in white and tan.

Weep System
Hollow sill construction and offset weep baffles release any accumulated moisture from the sill pockets and help prevent blow back, and helps control the water flow caused by a combination of wind and rain.
Glazing Material

AAMA-approved glazing tape adheres glass to the fixed and vent panel frames which seals and cushions the glass. Rigid vinyl setting blocks are used to support the unit above the sill, preventing glass shear (glass in the insulated unit becomes offset). Extruded vinyl glazing (snap-in) bead is applied around the interior edge.

“Interior glazing” makes replacement of glazing unit convenient; bead is mitered at 45 degree for a finished look. Insulating dual glazed panes have a 7/8” overall glass thickness (3/4” for double hungs), are dual seal equivalent, sealed for optimal energy efficiency. All Tuscany and Montecito windows currently meet or exceed ENERGY STAR® performance in all climate zones with a 0.35 u-factor or lower. Specialty glass options are available upon request which can help achieve as much as a 26% improvement in u-factor. Specialty glass options for privacy, noise abatement and aesthetics are available upon request.

Vent Panel

The vent panel has an “L” shaped lip that fully interlocks with the vertical meeting rail, adding security and preventing air and water penetration. Its roller assembly rides on a monorail reversible track for easy operation and durability. This raised track in the frame sill helps keep the vent panel free from interference by foreign particles that may collect in the sill.

The Tuscany Series has been designed with equal sight lines resulting in the same size glazing unit for both the fixed and vent panels. This is not only visually appealing but offers simplified field maintenance and can often result in common-sized window screens for window systems of more than two units.

Weatherstripping

Silicone-treated water-repellent polypropylene fin seal weatherstripping provides a durable, weather tight seal. Two continuous rows of weatherstripping around the vent panel provide a superior weather-tight seal. The first row is a flexible TPE leaf seal that acts as the primary water barrier. The second row is a compression style, TPV wrapped closed-cell foam, bulb seal that provides exceptional protection against air infiltration.

Roller Assembly

Self-lubricating, wear resistant, dual nylon rollers with stainless steel axles provide flexible, free-wheeling, smooth and silent operation. The adjustable rollers are engineered for reduction of friction and torque on operable vent frames.

Locking Assembly

Milgard’s exclusive patented SmartTouch® direct action lock mechanism provides security and finger-tip operation. The lock engages when the window is closed. The lock offers a visual indicator that when the window is closed, it is also locked. The SmartTouch® lock is unlike most locking mechanisms available today as it requires no squeezing or twisting to operate, making it ideal in universal design.

Screen

Milgard’s exclusive PureView® screen frames are cambered aluminum, assembled with rigid nylon corner clips. Rolled pull rail provides simple installation and removal. Screens come standard with matching frame color. PureView’s innovative screen uses smaller diameter yarn, improving
the interior view. The finer mesh also reduces the appearance of a screen, enhancing curb appeal. PureView’s fiberglass charcoal screen mesh is strong, durable and easy to replace. All screens are under one year warranty. PureView screen with pull rail are available only on Tuscany Series.

Energy Packages

Milgard adheres to ENERGY STAR® v6 requirements to meet or exceed U-Factor and Solar Heat Gain Coefficient (SHGC) criteria for all ENERGY STAR® zones.

Milgard also offers high energy performance options for the ultimate in energy efficiency. Energy efficient windows could include one or more of the following features based on your climate.

- SunCoat® or SunCoatMAX™
- EdgeGardMAX™
- Argon or Krypton
- 4th Surface
- Triple Glaze

For more details on Milgard Energy Efficient packages, visit [www.milgard.com/learn/energy-efficiency/energy-efficient-components](http://www.milgard.com/learn/energy-efficiency/energy-efficient-components)

To check the energy performance of all Milgard windows and doors, use our Energy Calculator at: [milgard.com/energy-calculator](http://milgard.com/energy-calculator)

Options

Grids

Available in 5/8” flat or 1-1/16” sculptured aluminum profiles. Simulated divided lite (SDL) grids are also available in some locations, using 5/8” grids between the glass panes for three dimensional shadowing as well as 7/8” contoured vinyl grid applied to the interior and exterior glass panes.

All grids are color matched to frame in white or tan.

5/8” Flat  
1-1/16” Sculptured  
Simulated divided lite

Full Lifetime Warranty and Glass Breakage Coverage

Full Lifetime Warranty is available on both Tuscany and Montecito Series with Glass Breakage Coverage available on Tuscany only. For complete warranty details visit milgard.com.

Caution: The use of petroleum based fuels or solvents as release agents in stucco wall installations or glass cleaning will chemically attack materials used in seals and other components, and voids the Milgard Warranty. The use of wax-based release agents is recommended.

Expanding foam for insulation purposes should not be used. Backer rod or loose packed fiberglass bat insulation is recommended.
Window Hardware

SmartTouch® Lock

Horizontal Slider - Single Hung - Double Hung

It’s the easiest, smartest way to lock and unlock a window or door, and also assures you that when your window is closed, it’s locked.

Responding to consumer needs for products that are easy to operate and maintain, Milgard developed the innovative SmartTouch window lock and door handle. The SmartTouch window lock won a prestigious IDEA award (International Design Excellence) from the Industrial Designers Society of America in 2008. The SmartTouch door handle won the same IDEA award in 2012.

Tuscany Awning/Casement Handle

Folding, nesting operator handle

Montecito Awning/Casement Handles

Operator handle (standard)

Folding operator handle (upgrade)
Door Hardware

SmartTouch® Interior Door Handle
Milgard’s patent-pending SmartTouch® door handle is easy to operate and lock. The lock and handle also increase security with a tough locking mechanism that exceeds all California forced-entry requirements.

Decorative Interior Handle

Swing Door Handle
Interior Finishes:
- White: Brushed Nickel
- Tan: Brushed Chrome, Oil Rubbed Bronze

Exterior Finishes:
- White: Brushed Chrome
- Tan: Oil Rubbed Bronze
- Black: Oil Rubbed Bronze
Premium Exterior Vinyl Finishes

**Standard** - Matching interior

- White
- Tan
- Clay (not available in all locations)

**Premium** - White interior only

- Bronze
- Espresso
- Classic Brown
- Tweed
- Silver
- Fog
- Sand
- Ivory
Full Lifetime Warranty

At Milgard, we build our windows and doors to last. With the dedication to quality that we put into building the best windows in the business, it wouldn’t make sense to back them with anything but the best warranty in the business. That’s why we back every properly installed window and door for as long as the homeowner owns their home—including parts and labor. Tuscany Series windows and doors also come standard with Glass Breakage Coverage. We’re one of the only manufacturers to offer a full lifetime warranty (10-year commercial) on a premium vinyl finish in any market. It’s why you can be sure you won’t find any windows better than Milgard.

For complete warranty details, visit milgard.com.

Why Milgard?

Milgard is one of the largest and most trusted names in windows and doors. For the last 50 years, we’ve demonstrated our commitment to innovation, quality and service.

While our coverage is extensive, our service is local. Milgard has multiple locations throughout the Western U.S. and Western Canada. Our belief is that by being close to our customers, we can provide them better service. This means faster lead and delivery time, as well as faster response to any warranty situations. We’re there for you long after the job has been completed. Milgard also has a comprehensive network of qualified dealers and offers some of the best training in the industry.

Awards give you added assurances and Milgard has been named “Best Quality in the Nation” eight times and the nation’s “Most Used Vinyl Window” four times by Builder magazine. Both Professional Remodeler and Professional Builder magazines have named us “Most Preferred Vinyl Window” three times.
Swing Patio Doors

The Tuscany Series and Montecito Series vinyl doors offer the outstanding insulating properties, low maintenance, and contemporary aesthetic appeal only vinyl can provide. Available in standard white or tan homogenous window frames, the durable vinyl exterior will never need painting. The windows will maintain their color and shape and can be constructed to your exact size specifications, subject to engineering review. All Milgard vinyl doors are made to order at no additional charge.

Swing doors not available in all locations.

Please also see:

Door Hardware
Premium Exterior Vinyl Finishes
Full Lifetime Warranty
Energy Packages
Accessories
Swing Patio Door

Configurations

1 PANEL
Left or right handing
Operable or fixed sidelites

2 PANEL
Active/Passive (shown)
Passive/Active
Left/Fixed
Right/Fixed
Fixed/Left
Fixed/Right
Operable or fixed sidelites

Minimum/Maximum Sizes

In-Swing Door
– 1 Panel Min 20 60 Max 32 80
– 1 Panel, 1 Sidelite Min 34 66 Max 52 80
– 1 Panel, 2 Sidelite Min 48 66 Max 72 80
– 2 Panel Min 40 66 Max 64 80
– 2 Panel, 1 Sidelite Min 54 66 Max 84 80
– 2 Panel, 2 Sidelite Min 68 66 Max 100 80

Out-Swing Door
– 1 Panel Min 20 60 Max 32 80
– 1 Panel, 1 Sidelite Min 34 66 Max 52 80
– 1 Panel, 2 Sidelite Min 48 66 Max 72 80
– 2 Panel Min 40 66 Max 64 80
– 2 Panel, 1 Sidelite Min 54 66 Max 84 80
– 2 Panel, 2 Sidelite Min 68 66 Max 100 80

Available Frame Styles
– 1-3/8” Setback 4-9/16” Wall Condition
– 1-3/8” Setback 6-9/16” Wall Condition
– 1-3/8” Setback 4-9/16” Wall Condition

Other
All configurations available with transoms, 1 or 2 sidelites and arches.

NOTE: For engineering approval contact your Milgard representative for any configuration over 40 square feet. Each Milgard Manufacturing plant reserves the right to alter or change sizes and configurations according to location capabilities. Ask your Milgard rep about specialty applications. Windows over 40 square feet shipped open for field glazing. Varies by location.

Not all frame styles available at all Milgard locations. Contact your Milgard Representative for more information.
Drawings - Quick Links

French In-Swing Patio Door
202—X 1-3/8" Setback 4-9/16" Wall Condition
203—X 1-3/8" Setback 6-9/16" Wall Condition
204—XX 1-3/8" Setback 4-9/16" Wall Condition

French Out-Swing Patio Door
205—X 1-3/8" Setback 4-9/16" Wall Condition
206—X 1-3/8" Setback 6-9/16" Wall Condition
207—XX 1-3/8" Setback 4-9/16" Wall Condition

Revit, SketchUp, .PDF and .DWG files can be accessed at [milgard.com/professionals](http://milgard.com/professionals) or clicking here:

Tuscany Series Architectural Library
French In-Swing Patio Door

X 1-3/8” Setback 4-9/16” Wall Condition

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Tuscany Series Architectural Library
French In-Swing Patio Door

X 1-3/8” Setback 6-9/16” Wall Condition

More Technical Documents can be found at milgard.com/professionals
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Tuscany Series Architectural Library
French In-Swing Patio Door
XX 1-3/8" Setback 4-9/16" Wall Condition

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Tuscany Series Architectural Library
French Out-Swing Patio Door

X 1-3/8" Setback 4-9/16" Wall Condition

Revit, SketchUp, .PDF and .DWG files can be accessed at milgard.com/professionals or clicking here:

Tuscany Series Architectural Library
French Out-Swing Patio Door

X 1-3/8” Setback 6-9/16” Wall Condition

OUTSWING DOOR
SERIES 8663

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Tuscany Series Architectural Library

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French Out-Swing Patio Door

XX 1-3/8” Setback 4-9/16” Wall Condition

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