Milgard Windows & Doors

Training Module
Ultra™ and WoodClad™ Windows & Doors
Why Fiberglass?

- Structural integrity - no warping, swelling, rotting
- Strength - high tensile strength
  - 8x stronger than vinyl
  - Up to 3x stronger than wood.
- 100% memory - retains original shape
- Maintenance-free fiberglass frames won't rot, peel or require paint
- Paintable - even dark colors
- Traditional wood aesthetics
- Energy efficient - Low thermal conductivity
- Non-corrosive
- Insect proof
WoodClad™ and Ultra™ Series

Standard Features

• Industry-leading Full Lifetime Guarantee including Parts & Labor with Glass Breakage
• Cam or Positive Action Lock
• Milgard SunCoat® low-e glass standard for increased energy savings
• Stainless Steel hardware on all Casement & Awning windows
• Custom sizes and shapes - no additional cost (except doors)
• Commercially rated windows & doors
WoodClad™ and Ultra™ Series Energy Options

- Optional advanced energy efficiency packages includes Milgard's 3D-MAX™ North 3D-MAX™ South for superior energy savings
- Meets or exceeds ENERGY STAR® performance requirements for all zones
### Ultra™ and WoodClad™ Series Exterior

<table>
<thead>
<tr>
<th>Feature</th>
<th>Benefit</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SCREEN</strong></td>
<td></td>
</tr>
<tr>
<td>Charcoal fiberglass mesh</td>
<td>Reduces glare</td>
</tr>
<tr>
<td><strong>FRAME</strong></td>
<td></td>
</tr>
<tr>
<td>Smooth bright finish</td>
<td>Will maintain appearance</td>
</tr>
<tr>
<td>Beveled edges</td>
<td>Adds depth and detail</td>
</tr>
<tr>
<td>5 degree mitered corners</td>
<td>Watertight perimeter</td>
</tr>
<tr>
<td><strong>EQUAL SITE LINES</strong></td>
<td></td>
</tr>
<tr>
<td>Consistent grid sizes</td>
<td>Patterns have consistent spacing throughout</td>
</tr>
<tr>
<td></td>
<td>Wood window appearance</td>
</tr>
<tr>
<td><strong>WEEP SYSTEM</strong></td>
<td></td>
</tr>
<tr>
<td>Baffled weeps</td>
<td>Keeps bugs out and reduce air flow</td>
</tr>
<tr>
<td>Off set weep holes</td>
<td>Inhibits wind blow-back</td>
</tr>
<tr>
<td><strong>7/8” OA</strong></td>
<td></td>
</tr>
<tr>
<td>Optimal thickness for</td>
<td>Meets Energy Star in all 50 states</td>
</tr>
<tr>
<td>energy efficiency</td>
<td></td>
</tr>
<tr>
<td><strong>LOCK DESIGN</strong></td>
<td></td>
</tr>
<tr>
<td>Hidden from the exterior</td>
<td>Cannot see if window is unlocked from the</td>
</tr>
<tr>
<td>sight line</td>
<td>exterior of the home</td>
</tr>
<tr>
<td><strong>EXTERIOR COLORS</strong></td>
<td></td>
</tr>
<tr>
<td>7 exteriors colors</td>
<td>Matching current home</td>
</tr>
<tr>
<td>WoodClad – CG Fir</td>
<td>Additional design capabilities</td>
</tr>
<tr>
<td>Ultra – Standard White,</td>
<td></td>
</tr>
<tr>
<td>3 matching interior</td>
<td></td>
</tr>
<tr>
<td>colors (Tan, Brownstone,</td>
<td></td>
</tr>
<tr>
<td>Matte Black)</td>
<td></td>
</tr>
</tbody>
</table>
## Ultra™ and WoodClad™ ® Series Side Profile

<table>
<thead>
<tr>
<th>Feature</th>
<th>Benefit</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FRAME</strong></td>
<td><strong>Feature</strong></td>
</tr>
<tr>
<td></td>
<td>4 ¼” frame depth (HV, SH &amp; PW)</td>
</tr>
<tr>
<td></td>
<td>3 ¼” frame depth (FC, FA &amp; PW)</td>
</tr>
<tr>
<td></td>
<td>Mulling grooves on side</td>
</tr>
<tr>
<td><strong>NAIL FIN</strong></td>
<td>1” setback</td>
</tr>
<tr>
<td><strong>Z-BAR- Standard</strong></td>
<td>1 3/4”, fiberglass</td>
</tr>
<tr>
<td><strong>Z-BAR- Wide</strong></td>
<td>2 1/4”, fiberglass</td>
</tr>
<tr>
<td><strong>BLOCK FRAME w/ SLOPE SILL ADAPTER</strong></td>
<td>Finless window with adapter attached to bottom</td>
</tr>
<tr>
<td>Feature</td>
<td>Benefit</td>
</tr>
<tr>
<td>-----------------------</td>
<td>-------------------------------------------------------------------------</td>
</tr>
<tr>
<td>LOCK</td>
<td>Cam lock or positive action lock</td>
</tr>
<tr>
<td></td>
<td>Traditional design or one touch locking</td>
</tr>
<tr>
<td>NYLON ROLLERS</td>
<td>Rollers slide on raised monorail track</td>
</tr>
<tr>
<td></td>
<td>Adjustable nylon roller with stainless steel axles</td>
</tr>
<tr>
<td></td>
<td>Results in less friction for easier operation</td>
</tr>
<tr>
<td></td>
<td>Longer lasting and no black residue</td>
</tr>
<tr>
<td>GLAZING BEAD</td>
<td>Wet glazed exterior</td>
</tr>
<tr>
<td></td>
<td>No interior glazing bead in view</td>
</tr>
<tr>
<td></td>
<td>Increased structural support</td>
</tr>
<tr>
<td>FINGER PULLS</td>
<td>Option for lift or pull handle on each vent</td>
</tr>
<tr>
<td></td>
<td>Allows homeowner to easily operate regardless of window accessibility</td>
</tr>
<tr>
<td>ANTI LIFT BLOCKS</td>
<td>Prevents from lifting while in locked position</td>
</tr>
<tr>
<td></td>
<td>Added security, keeps thieves out</td>
</tr>
<tr>
<td>JAMB LINERS</td>
<td>4-9/16”, 6-9/16”, and custom up to 12”</td>
</tr>
<tr>
<td></td>
<td>Finishes out interior with a traditional look</td>
</tr>
<tr>
<td>FC/FA HANDLE</td>
<td>Roto stainless steel handle</td>
</tr>
<tr>
<td></td>
<td>Option for folding down handle</td>
</tr>
<tr>
<td></td>
<td>Clean appeal</td>
</tr>
<tr>
<td></td>
<td>Low profile to allow for blinds/shutters</td>
</tr>
</tbody>
</table>
Ultra™ and WoodClad™ Series Types

HV
Half Vent

SH
Single Hung

DH
Double Hung

PW
Picture

ATPW
Radius Picture

FCL
Casement

FA
Awning

Bay

Bow

SD
Patio Door

FD
Swing Door

Additional combinations and mulling available
Ultra™ and WoodClad™ ® Series
Options

Exterior Colors

<table>
<thead>
<tr>
<th>Exterior Frame Color³</th>
</tr>
</thead>
<tbody>
<tr>
<td>White</td>
</tr>
<tr>
<td>Tan</td>
</tr>
<tr>
<td>Sand</td>
</tr>
<tr>
<td>Matte Black</td>
</tr>
<tr>
<td>Hunter Green</td>
</tr>
<tr>
<td>Brownstone</td>
</tr>
<tr>
<td>Cranberry</td>
</tr>
</tbody>
</table>

Interior Colors

<table>
<thead>
<tr>
<th>Ultra™</th>
<th>WoodClad™</th>
</tr>
</thead>
<tbody>
<tr>
<td>White</td>
<td></td>
</tr>
<tr>
<td>Tan</td>
<td></td>
</tr>
<tr>
<td>Brownstone</td>
<td></td>
</tr>
<tr>
<td>Matte Black</td>
<td></td>
</tr>
</tbody>
</table>

Standard

Must match exterior color

Clear, Vertical-Grain Douglas Fir

Version 1 – 06/2012
Ultra™ and WoodClad™ Series
HV & SH Hardware Options

Cam Lever Lock
Standard on WoodClad

Positive Action Lock
Standard on Ultra

Sash pull
Standard on HV

Sash Lift
Standard on SH

Available Colors:
- White
- Clay
- Brushed Chrome
- Polished Brass
- Dark Bronze
Ultra™ and WoodClad™ Series
DH Hardware Options
Ultra™ and WoodClad™ Series
FC & FA Hardware Options

Lever

Lock

Available Colors

Standard

White

Brushed Chrome

Option - Fold Down

Clay

Polished Brass

Dark Bronze

Version1 – 06/2012
Ultra™ and WoodClad™ Series

- Glass
  - P516
  - Narrow Reed
  - Cross Reed
  - Aquatex
  - #42 Clear
  - Glue Chip
  - Rain
  - Mattelux
  - SunCoat® Low-E
  - Bronze
  - Gray
  - Evergreen
  - Azurite
  - V-Groove
  - Triple Glazed Option

- Grids - Between the Glass
  - 5/8" Flat
  - 1-1/16" Sculptured

- Grids Simulated Divided Light
  - 3/4" Vintage
  - 1-1/8" Vintage
  - Craftsman
  - Legacy
Ultra™ and WoodClad™ ® Series
Sliding Patio Doors

Hardware Options

Exterior
Interior

Available Colors:
- White
- Tan
- Clay
- Slate Black
- Oil-Rubbed Bronze (non-living finish)

Brushed Chrome
Satin Nickel
Ultra™ and WoodClad™ Series
Sliding Patio Doors

- 1” or 1 3/8” nail fin set back, Z-bar, Block Frame
- 4 9/16” or 6 9/16” frame depth – Custom Jambs up to 12”
- Milgard SunCoat® low-e glass standard for increased energy savings
- Custom Sizes available
- Opposing throw two point lock
- Polycarbonate rollers
- Same grid options as windows
- French rail door style panels
- Optional advanced energy efficiency packages includes the Milgard 3D-MAX™ North or 3D-MAX™ South
- Warranty - Lifetime with glass breakage
Ultra™ and WoodClad™ Series
In Swing & Out Swing Patio Doors

Hardware Options

Standard Hardware - Interior and Exterior
Optional Hardware - Interior and Exterior

Available Colors
- White
- Tan
- Clay
- Slate Black
- Oil-Rubbed Bronze (non-living finish)
- Brushed Chrome
- Satin Nickel
Ultra™ and WoodClad™ Series
In Swing & Out Swing French Doors

- 1” or 1 3/8” nail fin set back, J-Channel, Z-bar
- 4 1/16, 4 9/16, 6 1/16, 6 9/16 frame depths
- Milgard SunCoat® low-e glass standard for increased energy savings
- Optional advanced energy efficiency packages includes the Milgard 3D-MAX™ North or 3D-MAX™ South
- Custom Sizes available
- 1, 2, 3, or 4 panels
  - Optional Sidelites (fixed or operable)
- In-swing or Out-swing doors panels
Ultra™ and WoodClad™ Series
In Swing & Out Swing French Doors

- Transoms available
- Sills – Fiberglass black with oak toe kick on the interior
- ADA Sill – Aluminum white, tan, bronze anodized
- Exterior handles- White, Tan, Painted ORB, Satin Nickel, Brushed Chrome, Slate Black
- Interior handles- White, Tan, Painted ORB, Satin Nickel, Brushed Chrome, Slate Black
- Hinges – Lift off and 2 way adjust in White, Tan, ORB, Satin Nickel, Brushed Chrome
- Multipoint lock
- Same grid options as windows
- Warranty – Lifetime with glass breakage
Ultra™ and WoodClad™ Series

Key Takeaways

- Retrofit or new construction
- Full Lifetime Warranty with Glass Breakage standard
- Wood window appearance without the maintenance of wood windows
- Strongest frame material available
- Commercially Rated Windows & Doors
- 7 exterior color options
- Fiberglass is paintable
- Sliding or French doors