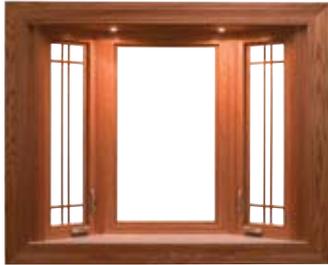




PROJECTION WINDOWS







Windows are an important component of any home – bringing in natural light, affecting the home’s overall look, and framing the world outside. A bay or bow window can dramatically change the look and feel of any room in the house. Bay and bow windows combine the functionality of replacement windows with the craftsmanship of a fine piece of furniture. These windows make any room feel more spacious and add a new focal point. Our bay and bow windows are made with skilled craftsmanship and from high quality materials. Each is structurally sound and mulled together with solid wood mullions. The interior showcases real wood trim around each individual window, as opposed to the commercial solid white look of vinyl mulled units.

GENERAL INFORMATION

- Projection windows are built to custom opening sizes.
- Frames can be built to accommodate any wall thickness.
- Many different insert window (sash) combinations are available.
- All normal replacement window options are available for the insert windows (sash).
- A variety of projection angles:
 - 15-, 30- or 45-degree Bay Window Styles
 - 10- and 15-degree Bow Window Styles with your choice of three, four or five lites
 - Custom styles, on any half degree, are also available
- All units are available in either Red Oak (for staining) or Birch (for painting).
- Available in all standard exterior and interior colors of vinyl.

Beauty is only the beginning.

WHY INVEST IN A PROJECTION WINDOW?

NEW LIFE TO AN OLD ROOM:

A projection window will create greater space inside your home. Projection windows add depth to the opening and will allow you to get a larger view of the space outside your home.

The hardwood frame of these windows will add warmth to the surrounding area, as well as creating a seat or shelf for you to utilize. The seat of this window can be cushioned or decorated, and can be a great place to relax on a beautiful day.

The added depth of these windows will make your room feel more spacious and open. Projection windows reach out to provide your room with more natural light. Installing one of these windows can be viewed as an easy-to-do addition to any room.

CURB APPEAL:

Adding a bay or bow window to your home can add dimension to an otherwise bland or flat exterior appearance. The dramatic look of these windows will definitely catch the neighbor's eye. If you want to give your flat walls some flair, a projection window is a good choice for you.

ALL THE "BELLS & WHISTLES":

A large variety of decorative options are available to personalize your new showcase window to match your own style and home. Whether you would like a copper custom roof, recessed interior lighting, or the rich sheen of a factory stain finish, a host of options are at your fingertips.



STANDARD DESIGN FEATURE SUMMARY

CNC PRECISION & DOWEL PIN LOCATION

The foundation for quality when building projection windows is in the plywood frame and vertical mullions. If these two design elements are subpar, then trouble will follow. All of our frames are cut with and mullions located by using precision CNC technology. Reaching this high level of accuracy assures that every projection window we sell is rich in craftsmanship and durability.

PREMIUM GRADE HARDWOOD PLYWOOD CONSTRUCTION

Head, seat and jambs feature furniture-grade 1-1/4" hardwood veneer plywood in either Red Oak (for staining) or Birch (for painting).

REAL WOOD INTERIOR TRIM

The interior of your new projection window will be trimmed with solid Red Oak or Birch. Real wood interior trim adds warmth and craftsmanship to these showcase windows. The molded trim breaks up an otherwise flat and bland appearance making the bay or bow feel like it is a part of the room and not just an afterthought.

INSULATED SILL DESIGN

Each seat board is insulated to ensure quality performance and dependable energy savings.

DUAL MULLION SYSTEM

Our two-part system combines the common steel rod mullion with the structural integrity of a solid Timberstrand® mullion.

- Timberstrand is 25% stronger than standard woods, such as pine.
- Timberstrand is a moisture resistant filler and will not warp or twist over time.
- The pressed force of the steel rod mullion assembly will not loosen or fail over time – unlike lag bolts, screws or clips.

WEEPED SILL PAN SYSTEM

The sill pan is fully weeped and features a sloped sill. This system is a secondary measure which protects the internal assembly from, unlikely, water penetration or condensation.

OFFSET NOSE DESIGN & EXTERIOR APPEARANCE

The exterior was designed to offer functionality, along with a regal appearance. The offset nose, beveled profiles, and non-linear jambs work together flawlessly to provide superior craftsmanship while helping direct water away from important areas.



Quality never looked so good.

DESIGN FEATURES

DEAD STOP INSTALLATION

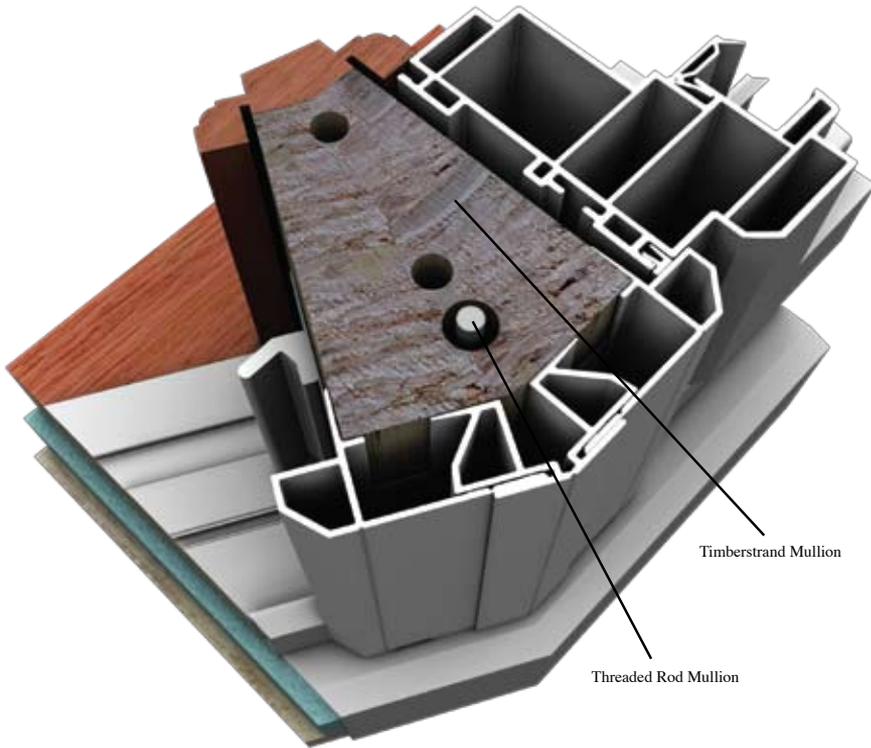
Insert windows are independently installed and are mullioned together using our “Dual Mullion” system providing the freedom to combine virtually any window styles. Inserts can be installed on jobsite and they can be removed individually if needed.

MOISTURE RESISTANT FILLER

The Timberstrand® mullion not only provides unprecedented structural stability to the frame but also acts as a moisture resistant filler. It effectively eliminates condensation associated with ambient air and serves as a non-conductive thermal break.

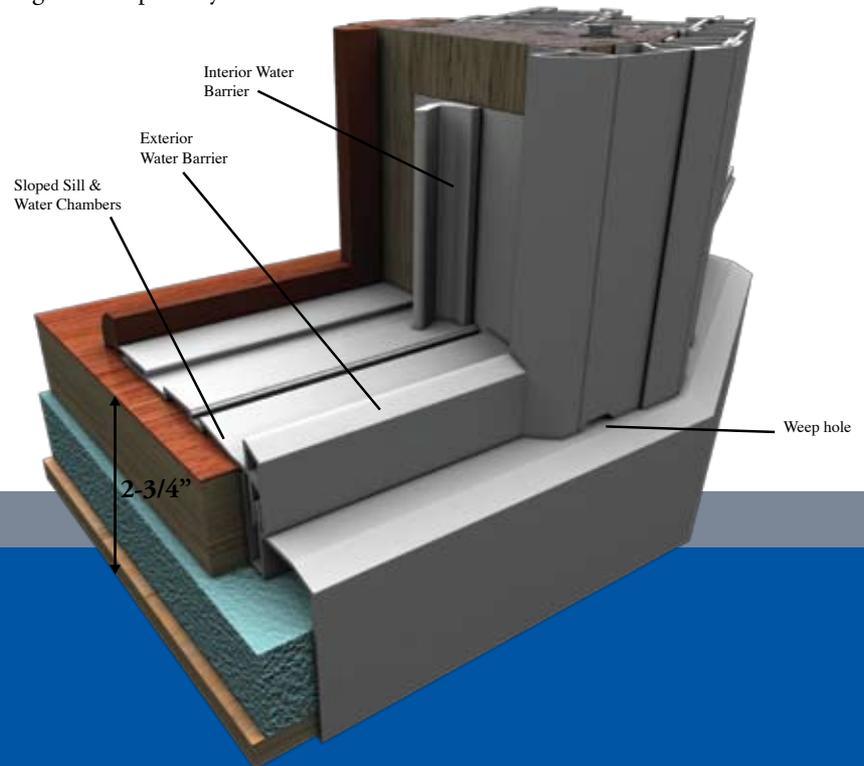
WEEPED SILL PAN SYSTEM

Every projection window features a fully integrated and weeped sill pan – carefully designed to provide an efficient secondary measure against water penetration. A sloped sill feeds into large water chambers that drain through discreetly fabricated weep holes located on the exterior cladding. The weep holes are baffled to reduce wind infiltration and to keep insects out. In the unlikely case that water or condensation reaches the internal assembly, the panning system protects the window from damage and keeps it dry.



INSULATED SILL

In a world of growing energy concerns and rising energy costs, insulating the seat board is a necessity. A well-insulated seat board helps lower energy costs and protects against cold air transfer, condensation problems, and finish failures. All bay and bow windows come standard with an insulated seat board that has been integrated seamlessly into the window's overall design. A 1-1/2" thick insulated panel is attached to the hardwood plywood seat. Combined, this creates a 2-3/4" sill which yields an insulating value of R7.



DESIGN FEATURES

OFFSET NOSE DESIGN & EXTERIOR APPEARANCE

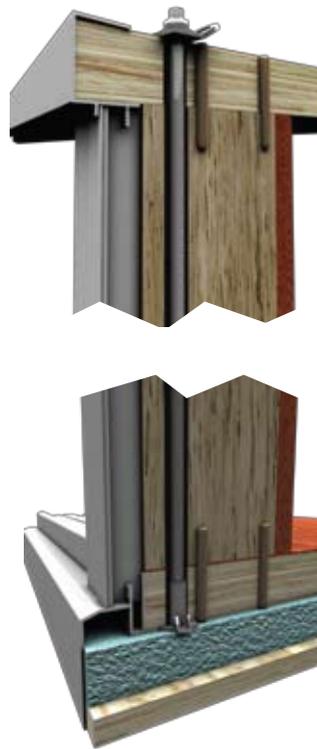
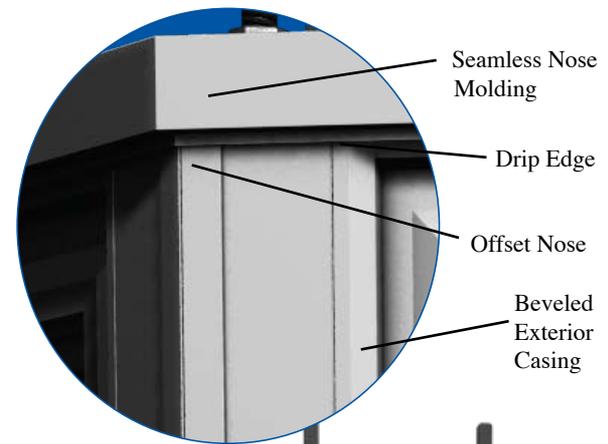
Our exterior design comprises a unique combination of our offset nose, beveled profiles and non-linear jambs. Each component works in unison to create a properly finished regal exterior appearance that exudes a level of craftsmanship uncommon in most designs. Functionally, the offset nose correctly tucks exterior casing away, creating an overhang. The overhang aids in water deflection and leaves a seamless nose molding without any unfinished areas to be sealed or maintained. Furthermore, a drip edge at the top of the unit works to direct water away from these important connections.

DUAL MULLION CONSTRUCTION

Ordinarily, projection windows are constructed using hollow vinyl mullions and a steel threaded rod or a solid wood mullion connected by lag bolts, screws or clips.

Our projection windows are manufactured with both solid wood mullions and a continuous threaded rod that is connected with a commercial-grade T-nut at the seat, then runs to the nut connection at head board.

The combination of these two design elements is unmatched in strength and stability. Structurally sound, this design will not warp, sag, or pull apart over time to ensure the units are weatherproof and remain long-lasting fixtures.





Birch

Red Oak

EDGE BANDING

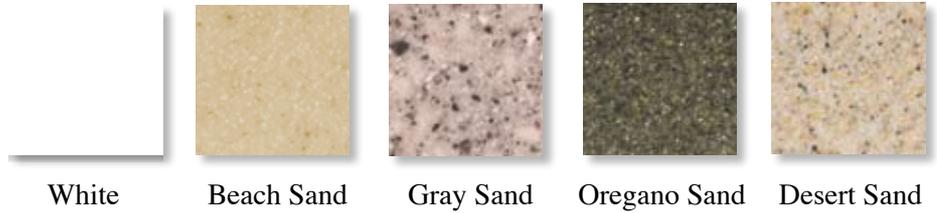
For greater visual depth and enhanced aesthetics, Red Oak or Birch premium edge banding covers the unfinished plywood edges to allow interior casing to be installed with a reveal.



DECORATIVE OPTIONS

SOLID-SURFACE SEAT BOARDS

This 1/2" thick solid-surface inlay creates a durable, waterproof seat board with a flair all its own.



LAMINATED INTERIORS

Interior lamination adds durability – helping to protect against dings and water damage. Five standard colors of laminated interiors are available on all projection windows. Choose from seat board only lamination or entire interior plywood lamination.



White

Polished
Bronze

Polished
Copper

RECESSED LIGHTING

Recessed lights are available for both plug-in or hard-wired applications. Plug-in applications feature a 10' cord with switch.

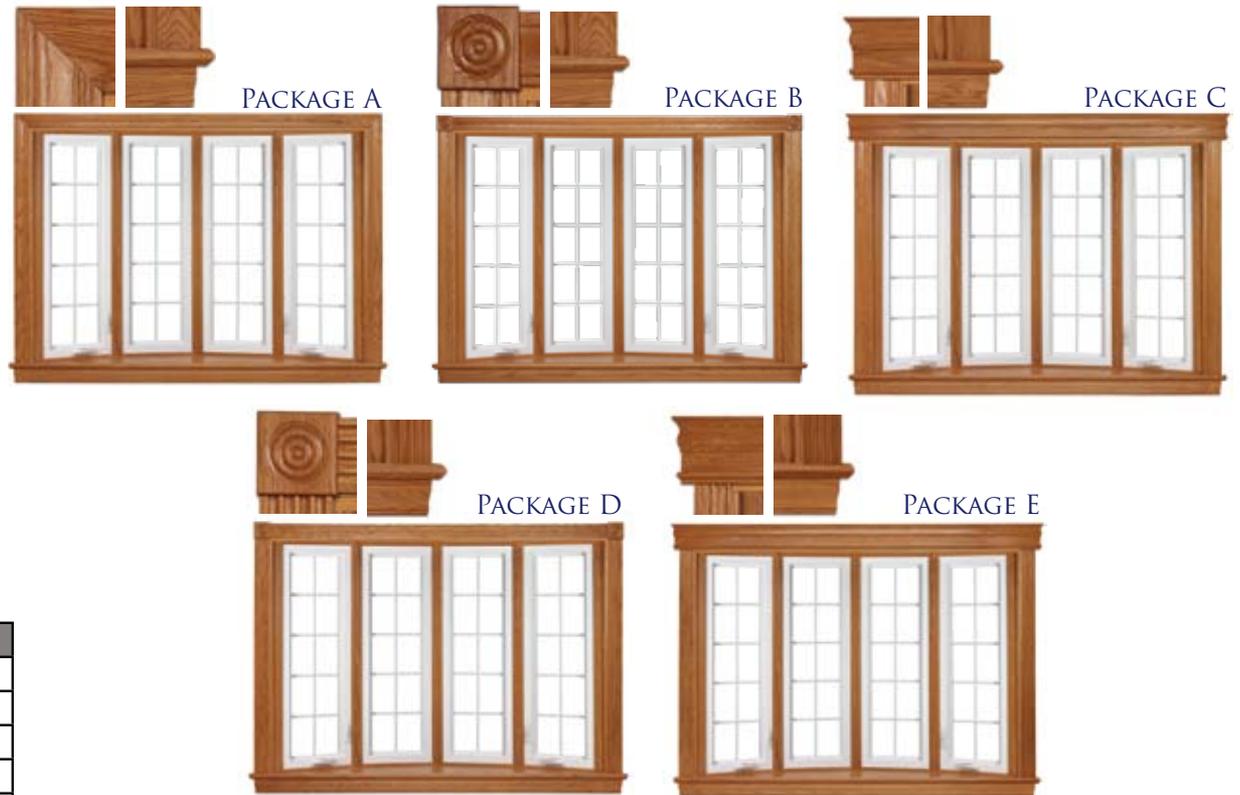
DECORATIVE OPTIONS

TRIM PACKAGES FEATURING AN EXTENDED SILL

There is no better way to add elegant beauty and craftsmanship to projection windows than to complement this furniture-grade product with the proper trimmings. Our ready-to-install trim systems bring a whole new level of finish work to every unit.

All packages include an extended sill that is factory fit and installed on site using pre-located dowel pins. The extended sill, apron and header are all cut to fit and factory returned as well – ensuring both quality workmanship and seamless installation.

Choose from five ready-to-install complete trim packages. Trim packages are available in two distinct styles – Colonial or Fluted. Each is available in your choice of stain finishes.



PACKAGE	STYLE	DESCRIPTION
A	Colonial	Extended Sill with Mitered Casing
B	Colonial	Extended Sill with Rosettes
C	Colonial	Extended Sill with Header
D	Fluted	Extended Sill with Rosettes
E	Fluted	Extended Sill with Header



PRE-MITERED INTERIOR CASING

For a less dramatic look, Colonial style interior casing is available in Red Oak or Birch in 2-1/4", 3-1/2" and 5" widths. Casing can be ordered pre-mitered with a standard 1/4" reveal for easy installation.

DECORATIVE OPTIONS

FINISHED INTERIORS

Factory-finished interiors can save you time, money and the potential for costly mistakes. During the factory pre-finishing we are able to individually finish each component in a clean humidity controlled environment and then assemble your unit.

Component finishing assures that the final product will not have any runs or uneven cracks to deal with. In addition, our controlled environment helps minimize debris in paint and lacquer, and also ensures maximum long lasting adhesion.

HAND-APPLIED STAINS

Choose from several standard stain selections, as well as custom stain colors. For custom stain finishes, supply a finish sample or brand and stain number. All stains are environmentally friendly, non-solvent, water based coatings.



Light Oak



Light Cherry



Cinnamon



Dark Oak



Dark Cherry



Mahogany



Maple



Early American



Walnut

PAINT

All bay and bow windows can also be finished with White, Tan or Clay paint. Or, supply a sample chip or brand name and paint finish number for precise custom matching. All paints are environmentally friendly, non-solvent, water-based coatings.



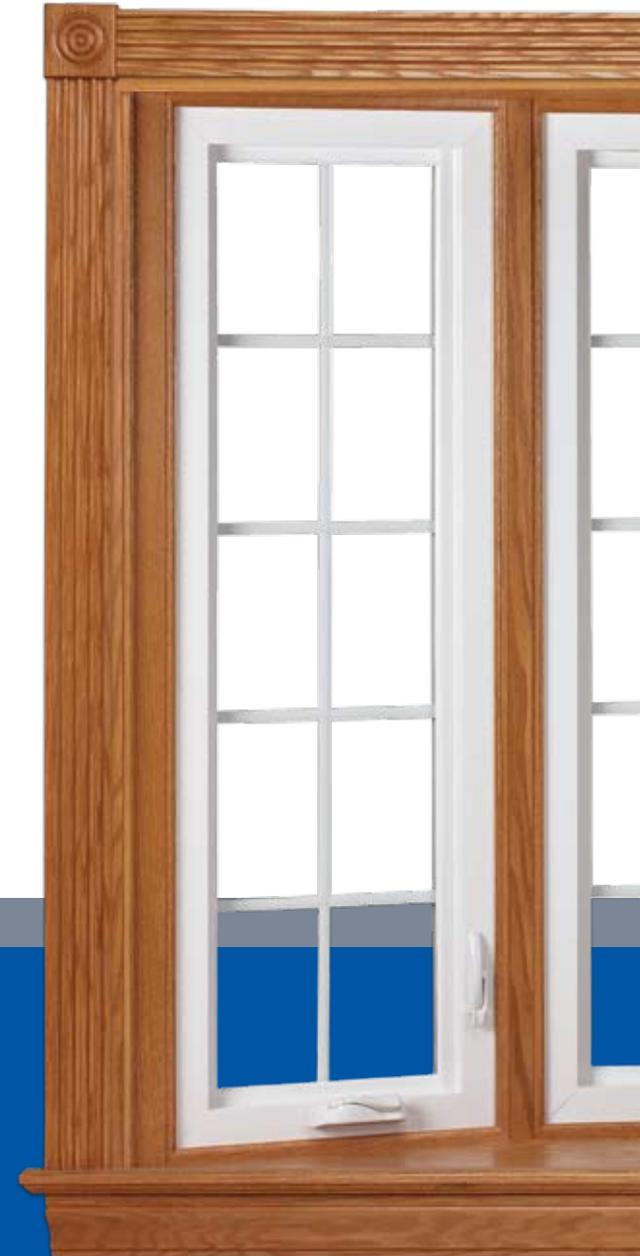
White



Tan



Clay



ROOFING OPTIONS

ROOFING MATERIALS

Plywood

Pre-assembled, ready-for-finishing plywood roofs are built from professional-grade materials to exact measurements. All plywood roofing systems are easily installed and can be quickly finished with asphalt or wood shingles.



Painted Aluminum

Like plywood roofing systems, painted aluminum roof systems are hand-crafted to precise measurements to ensure a perfect fit. Painted aluminum roofing systems are available in a variety of specially-formulated colors.



Copper

There is nothing that compares to the sophistication that copper roofing systems bring to a bay or bow window. Intricately detailed and finely finished, these precision roofing systems arrive ready to install.



PAINTED ALUMINUM AVAILABLE COLORS Subject to change

Bronze (01)	Black (02)	Medium Bronze (03)	Chocolate Brown (04)
Concord Cream (05)	Sandstone (06)	Redwood (07)	Mission Red (08)
Sierra Tan (09)	Ascot White (10)	Forest Green (11)	Patina Green (12)
Dove Grey (13)	Siam Blue (14)	Rawhide (15)	Rocky Grey (16)
Brite Red (17)	Regal Blue (18)	Teal (19)	Slate Grey (20)
Slate Blue (21)	Mint Green (22)	Coppertone (23)	Boysenberry (25)
Bone White (26)	Hartford Green (27)	Silversmith (28)	Hemlock Green (30)
Champagne (31)	Clear Anodized (70)	Antique Patina (70)	Dark Bronze Anodized (71)

- All paint colors feature a 30-year manufacturer's warranty.
- All roofing systems available with copper or painted aluminum counter flashing.

For Copper Roofs

- Available with a clear-coat to retain original copper color.
- Available with a pre-patina green or brown coating to age copper more quickly.





Every effort has been made to reproduce colors accurately. But, due to the printing process, variations may occur. Consult your supplier prior to ordering.

