

PROBABLY **THE MOST ENERGY EFFICIENT WINDOWS
AND DOORS**

Exclusive windows

The newest polymer technology, German engineering and ... precise attention to details.

Why Intus Windows

Performance: super high energy efficient and high performance windows, doors and curtain walls.

Sustainability: the only way we can survive on this planet is by energy conservation and using renewable energy. Our super high performance products will help us to conserve significant amount of energy that is being wasted every single day.

Comfort: our products makes every building more comfortable to live in and will help building occupants to achieve those comfort levels.

Style: our state of the art products will enhance style and curb appeal of any home, school or high rise building.

Highest Quality: every product starts with wood. We inspect every piece of timber that comes to our facilities. Range of species include: pine, oak, larch, eucalyptus, mahogany and others. We make sure that every part of our window is of an exceptional quality. Our windows implement only **highest standard** and **quality components** whether it would be a smallest screw or a superb quality timber.

Intus Windows and the Empowerhouse Project: Intus Windows has joined the Empowerhouse fellowship which is headed up by Parsons The New School of Design, Stevens Institute of Technology, and Milano The New School of management and urban policy. The Empowerment mission is to design and build a cutting edge low income zero-net **Habitat for Humanity** duplex. This two unit duplex will incorporate, a **Passive House** standards which in part calls for extremely energy efficient windows and doors. One of the two units of the duplex will be entered into the 2011 fall **Solar Decathlon** held on the Nations Mall in Washington DC. Intus windows were chosen by the Empowerhouse team because they met the extreme standards dictated by the **Solar Decathlon** contest as well as affordability section of the contest.

Intus Windows is very much involved in United States energy efficiency and sustainable living movement. We are big supporters of **Passive House**, the highest energy efficiency standard in buildings





Wood windows for wide range of climates

Our wood windows perform extremely well in wide range of climate zones. Same as bark protects our trees, wood impregnation and special outside layers protects our wood windows.

Outside coat of our products consist of certain particles and polymer material which is used in the field of space research and aviation industry. Top layer particles penetrate to the smallest cracks of the wood and solidly attaches. Lastly, we use special paint that drastically reduces bubbles and micro foam formations. All these steps and materials allow our windows to have a superb protection against humidity, UV rays, fungus, mold, rots and rodents.

Our windows are extremely green. Our timber is grown in sustainable forests. We eliminated use of formaldehydes, lead carbonates and other cancer causing chemicals.

Protected exterior of our windows finish may include aluminum cladding, glass, bronze or even gold. Highly qualified specialists are able to attach aluminum clad right on the wooden part making window profiles more protected and more beautiful. This procedure requires deep knowledge of craftsmanship and precision.

Our glazing units offer best in class sound isolation and allows comfortable living even next to the busiest freeways.

Use of superb glazing with wide variation of Low E coatings allows us to substantially reduce not only heat loss in cold climates but also reduce the use of air conditioners in warmer climates.

- **Perfromance. Comfort. Style. Sustainability. Quality.**

We use warm edge spacers in all glass units. Cutting edge technology molecular structure of the spacers reduces heat loss by 7-10% compare to conventional aluminum spacers and reduces condensation on the edge of the glass.

To enhance security features of our windows we took it one step forward - we brought not only tempered but also bullet and blast proof glass to the market.

- **German hardware:** extremely rigid and of superb quality allows smooth operation while opening and tilting the unit.

- The newest **polymer technology** (used in the fields of space research and aviation) and special ecological paint ensure proper protection and durability.

- **Additional drainage and ventilation channels,** protect window from fog and frost formation.

- We offer:

- Tilt/Turn windows

- Patio doors

- French doors

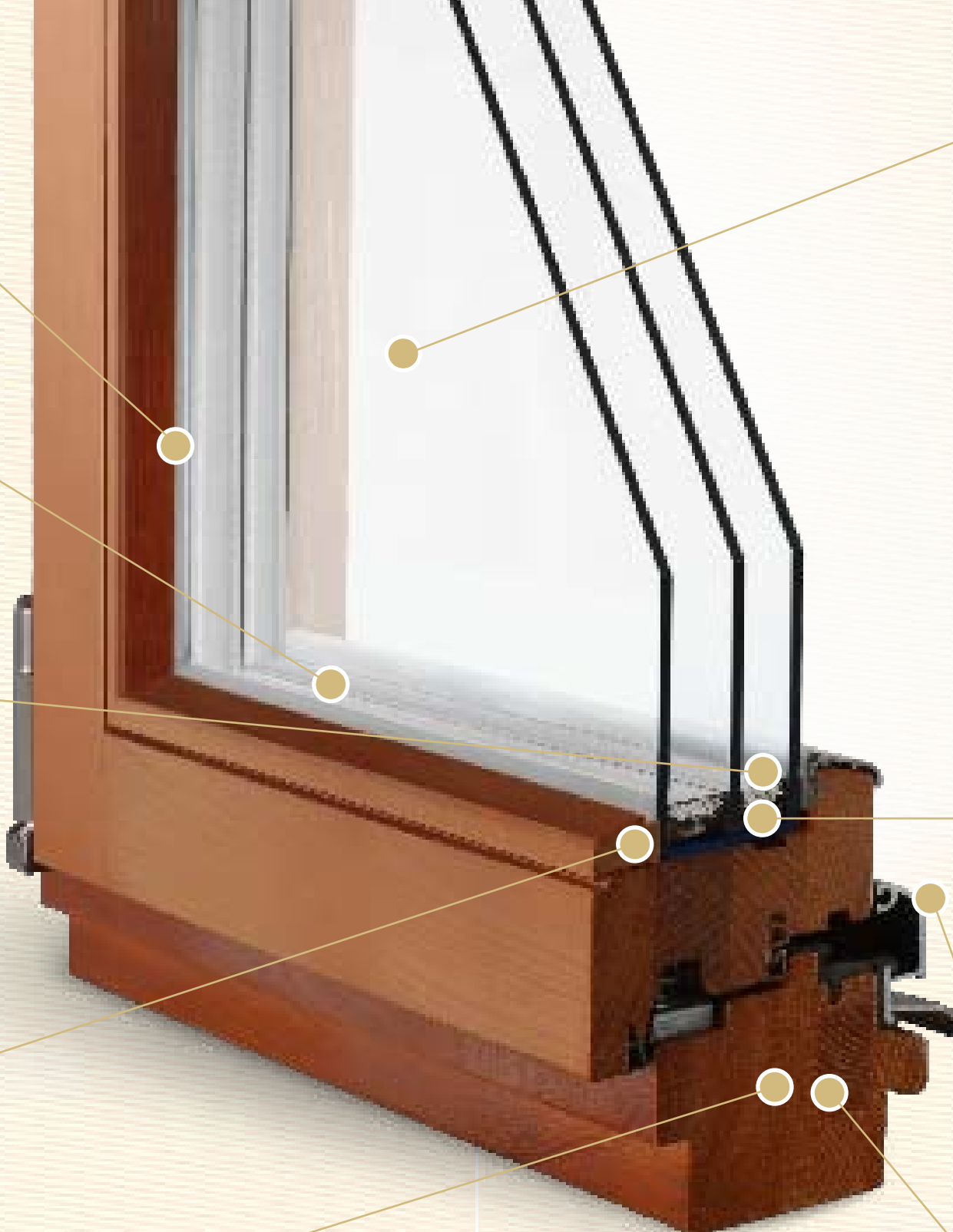
- Bi-fold doors

- Lift and slide patio doors

- Entry doors

- Curtain walls





• **Internal glazing for higher security** – glass unit is fit from inner side for protection against intruders.

• **Precise and thin silicone seal:** silicone protects a window against water. Neat and unobtrusive special grooves for silicone are made on both sides of a window. Color of silicone can be chosen as well.

• **“Warm edge polymeric spacers.** It is an isolating composite, fixed by glass seams, having high mechanical resistance, covered in thin metal foil additionally suspending humidity and gas, but ensuring good grip with sealants.

• **Special glass frame attachment prevents unsightly cracks where they come into contact with the window frame.** Modern wood windows paint or varnish is often fragmented in places where contact with the window frame and glass attachment occurs. In our products unsightly cracks **are extremely reduce.**

• **Multi-layer timber sections with opposing grains, reliably protect window frame from warping and twisting.** Your window will open easily and will not expand drastically—even during the most humid weather.

• **The latest generation technology provides complete transparency of the glass and protection from cold, heat, noise and UV rays.**

Low-E glass reflects the heat in a summer reducing cooling cost. If you live in a noisy environment, our windows made with high-end soundproof glass are the perfect solution for your home. The noise will be reduced significantly even if your home is near the train tracks or airport.

Various LowE coatings will help to capture heat on south side units during winter days (colder climates) or prevent heat gains in summer time in warmer climates.

Amazing self-cleaning glass units coated with special layer will help to resolve accumulated dirt and contaminants!

• **Advanced ventilation and drainage channels reduce formation of condensation on the window.**

Channels help window to “breathe” eliminating accumulation of humidity.

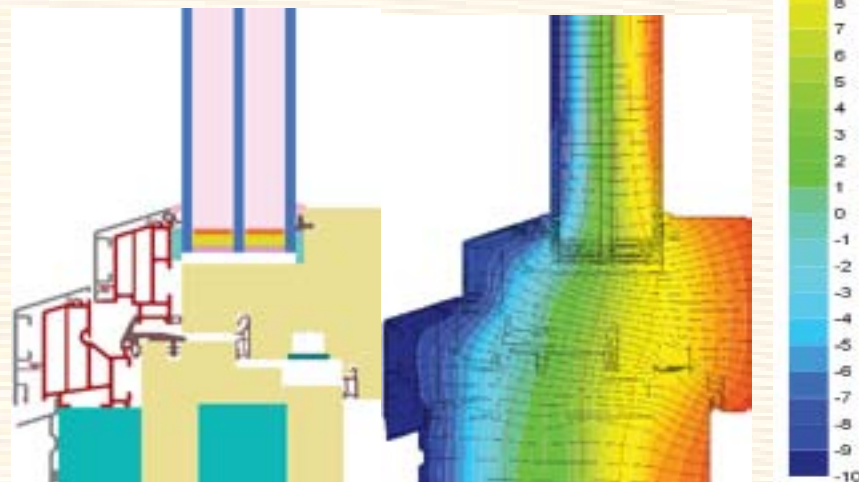
• **“Umbrella” for a Window.** Aluminum drip strips are used at the most sensitive parts (where water runs) of the wooden frame. These drip strips, not only prolong the life of a window but also improve its thermal values and sound insulation.

• **It’s not a “mass production”.** Each client is unique. We are ready to accommodate your unique desires, needs and preferences.

Premmier Passiv 78

PASSIVE HOUSE INSTITUTE CERTIFIED WINDOWS.

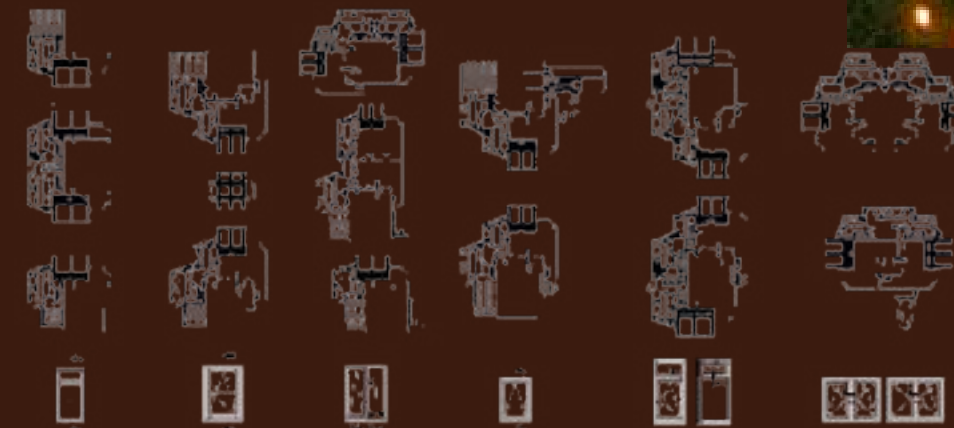
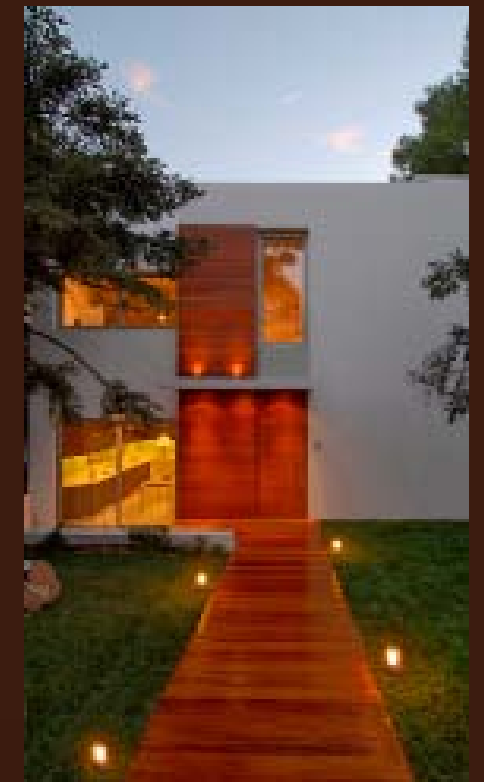
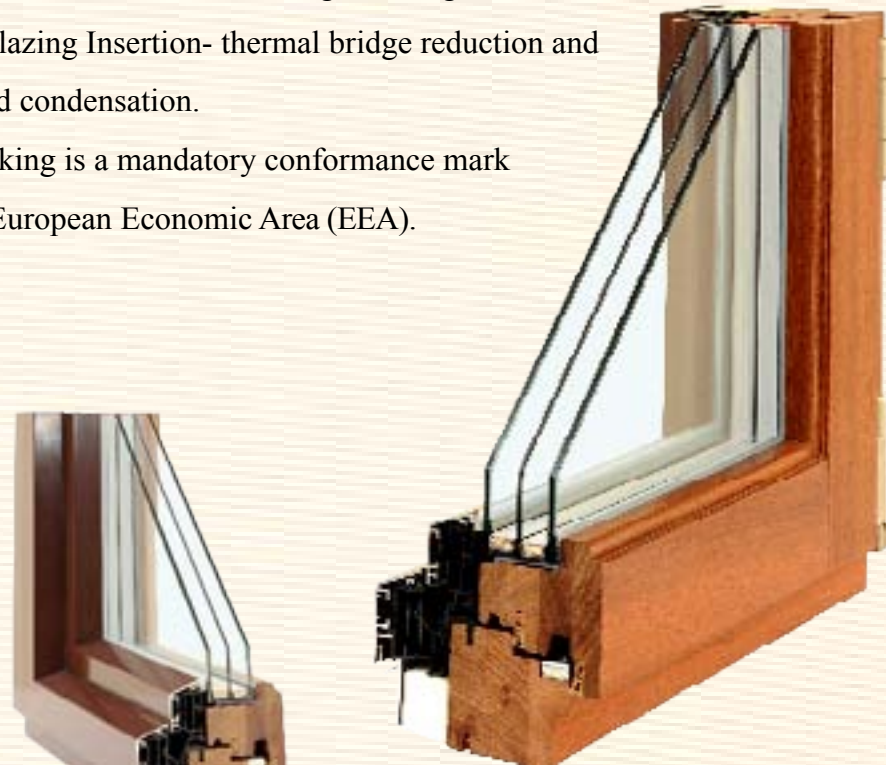
- Thermal Performance- $U_w=0.0916^*$ Btu/(h.ft².F), **R=11***
- Frame - $U_f=0.13$ Btu/(h.ft².F) , (head, sill)
 $U_f=0.135$ Btu/(h.ft².F), (jamb)
- Warm edge spacers- better room climate.
 $\Psi_G =0.0185$ (BTU/hr.ft.°F)
Higher inside glass surface temperatures
Reduced condensation on the edge of the glass
- Triple glazing- up to $U_g=0.053$ Btu/(h.ft².F)
Increase thermal insulation.
Superior noise insulation up to 47 dB
- Triple window seal- provides air tightness (class 4)
- Multi-lock system- provides security and protection.
- Aluminum cladding- provides protection from outside Elements.
- Deep Glazing Insertion- thermal bridge reduction and
Reduced condensation.
- CE marking.



Premmier 68 Mira-therm 08

PASSIVE HOUSE WINDOWS SUITABLE FOR PASSIVE HOUSE.

- Thermal Performance- $U_w=0.102$ * Btu/(h.ft².F), **R=9.8****
- Frame - $U_f=0.15$ Btu/(h.ft².F) , (head, sill)
 $U_f=0.157$ Btu/(h.ft².F), (jamb)
- Triple glazing- up to $U_g=0.053$ Btu/(h.ft².F)
Increase thermal insulation.
Superior noise insulation up to 47 dB
- Warm edge spacers- better room climate.
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- Warm edge spacers- better room climate.
Higher inside glass surface temperatures
Reduced condensation on the edge of the glass
- Deep Glazing Insertion- thermal bridge reduction and
Reduced condensation.
- CE marking is a mandatory conformance mark
in the European Economic Area (EEA).

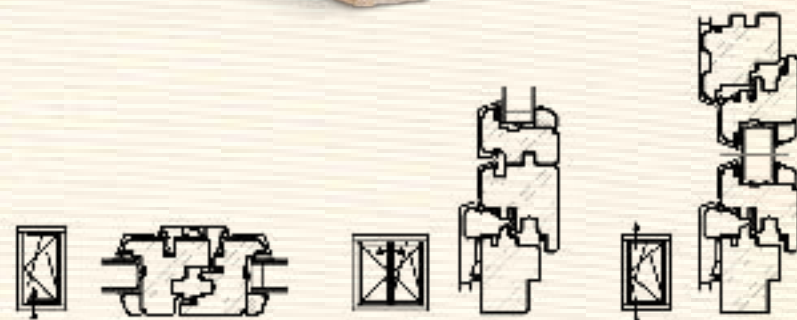
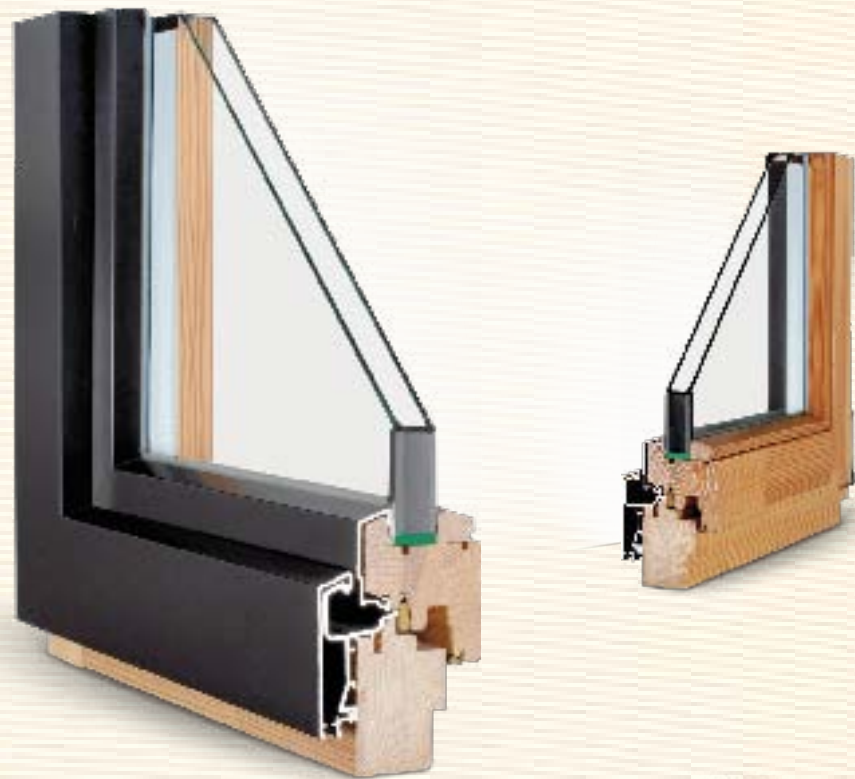


Premmier 68 Alu I

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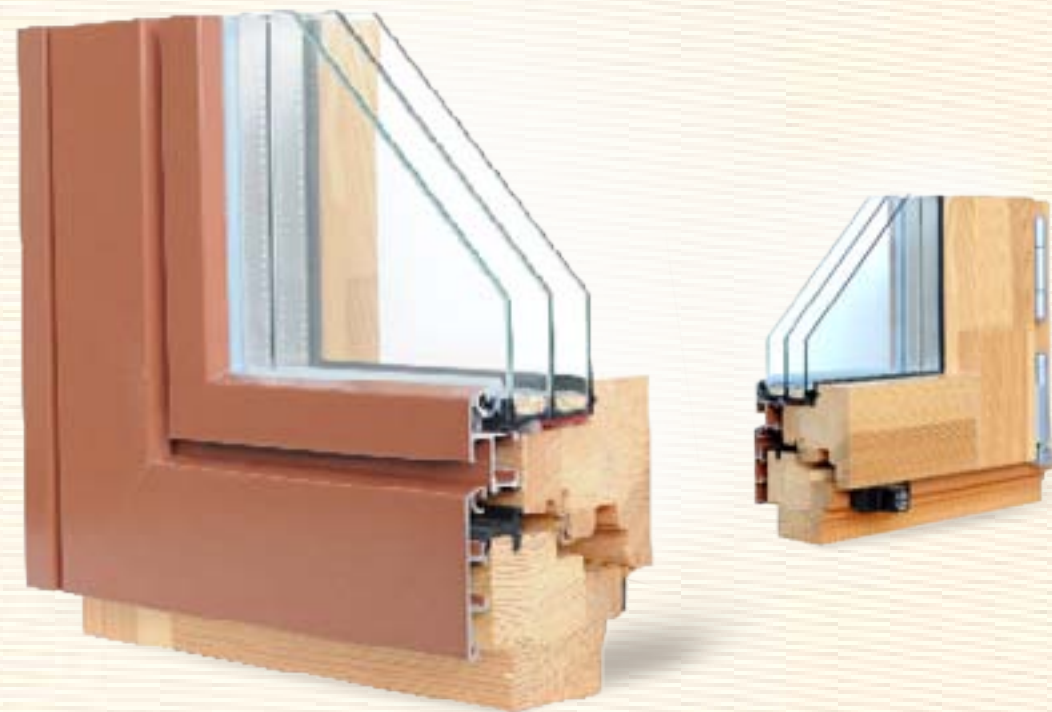
These windows are additionally covered in aluminum from the outside. Such windows are extremely resistant to any outside elements.

We use different process than most manufactureres to secure the aluminum to the wooden part . That way it not only protects the window, but it also looks much more beautiful.



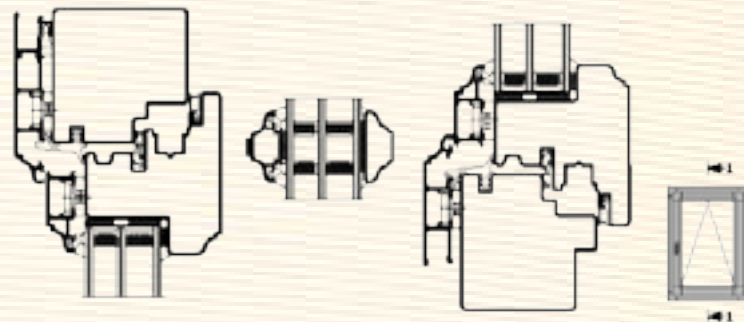
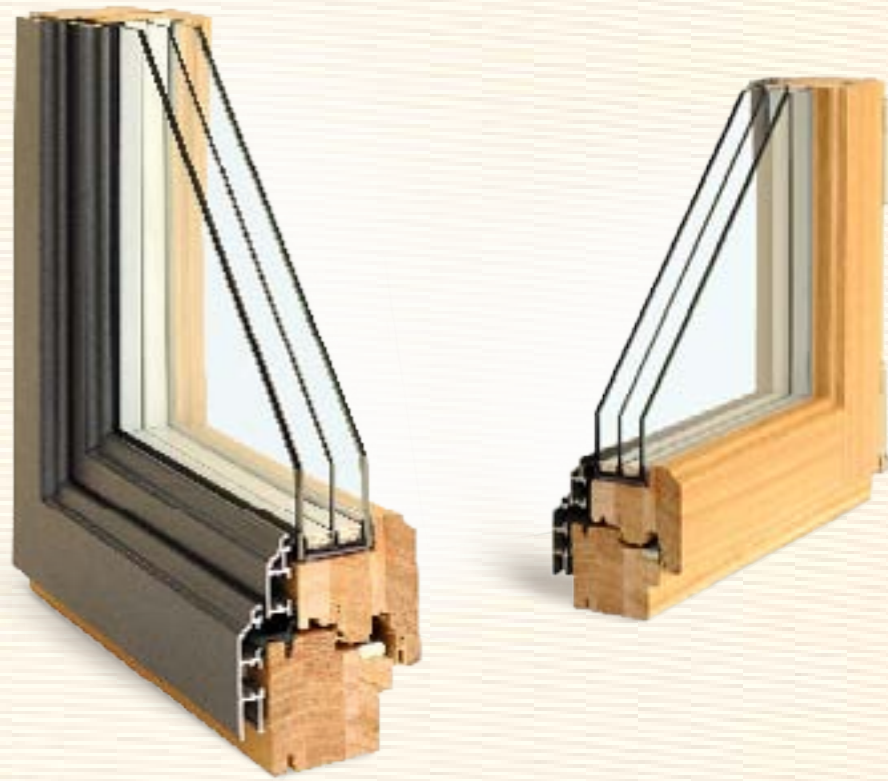
PREMMIER ALU II

The wood and aluminum window system allows for a brand new latitude while working along with flexible architectural ideas. This system offers countless variations in timber profiling and glazing cases and opens possibilities to implement even most challenging goals of the supreme architectural quality.



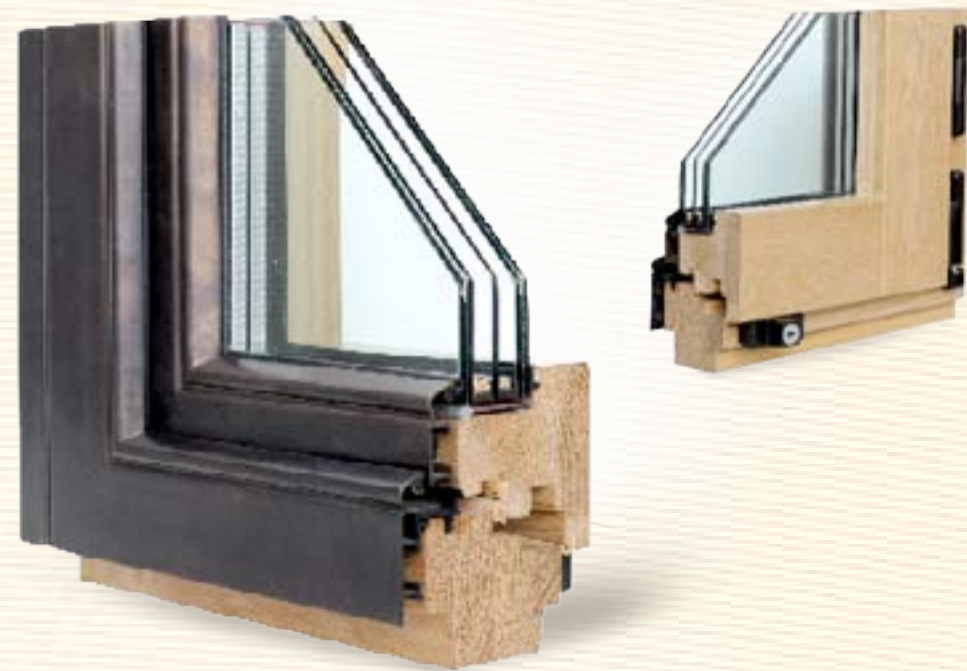
Premmier Alu CLASSIC

Classic Windows are made following traditions, manufacturing standards and practices that last forever. Our Classic windows will improve the value and esthetics of your home.



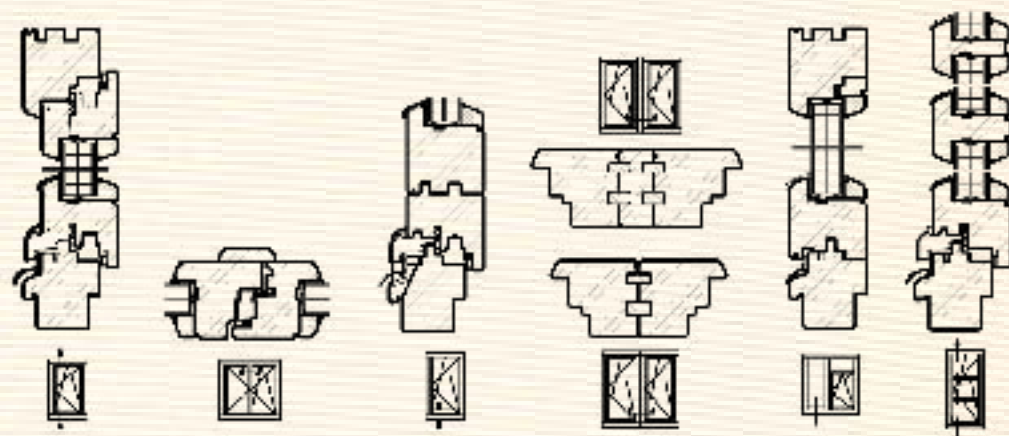
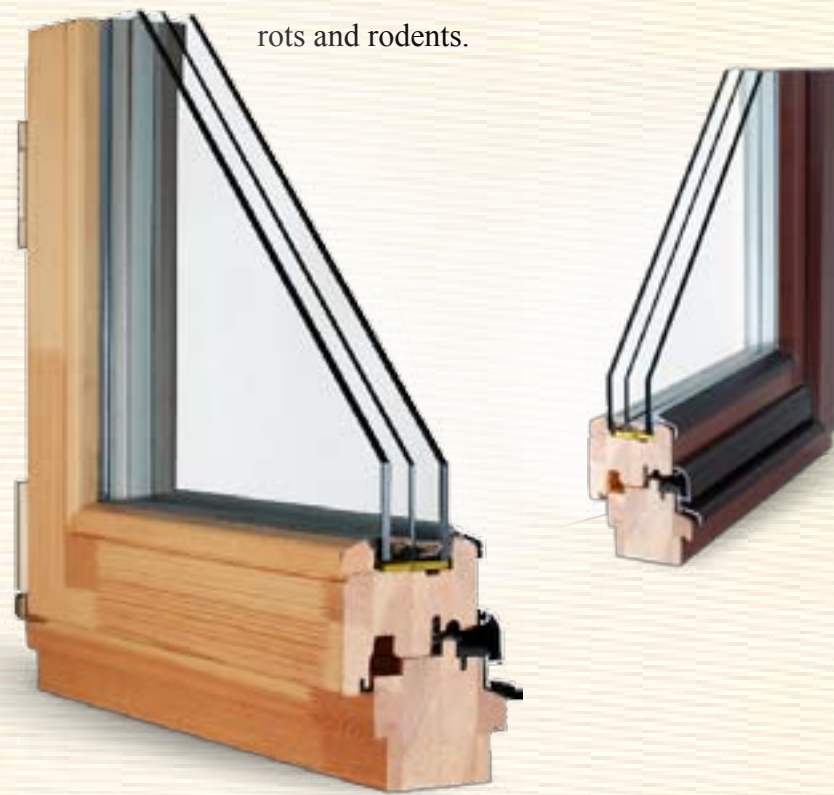
PREMMIE BRONZE

This is the combination of Classic and Modern styles. Superb timber quality windows are covered with bronze or other precious metals. These windows are ready for exclusive clients along with the highest safety features such as bullet, vandal or blast proof glazing.



Premmier 78

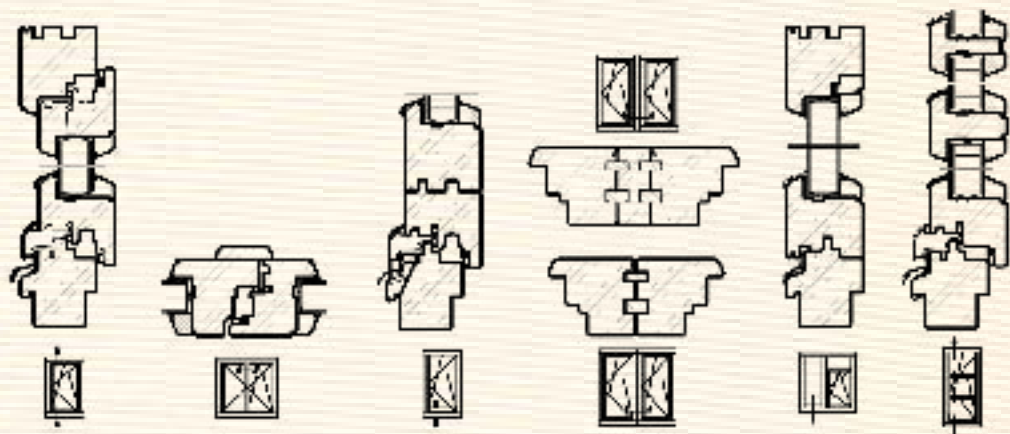
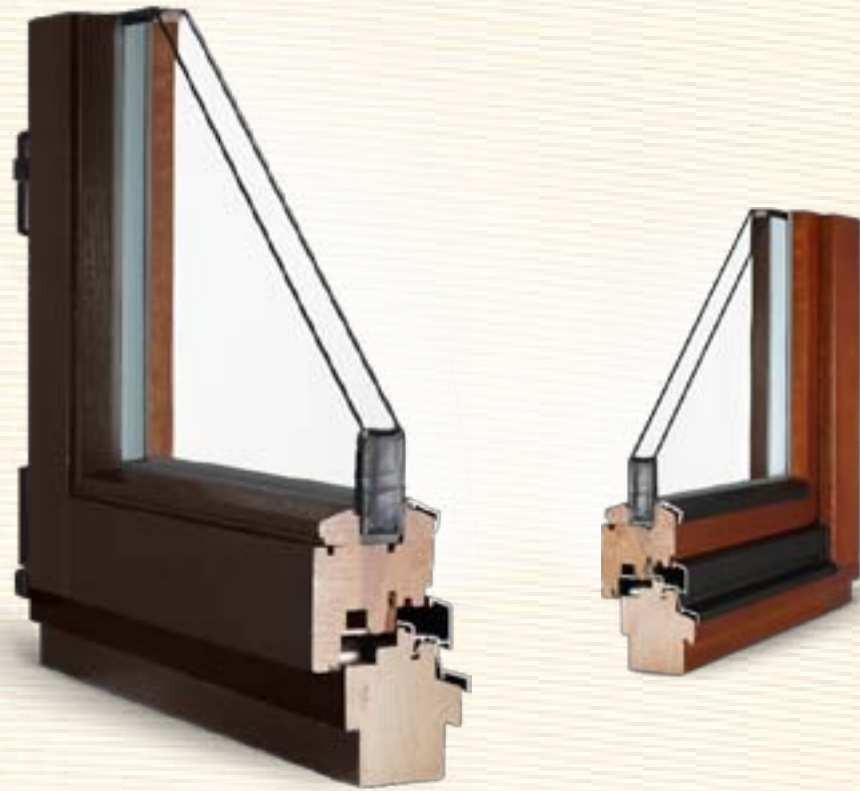
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Premmier 68

2 5/8" width deep profile window from your selected wood. Rounded profile not only looks aesthetically and contemporary, but also allows to better drain the water.

Most sensitive parts of a window where the rainwater runs down are covered with aluminum.



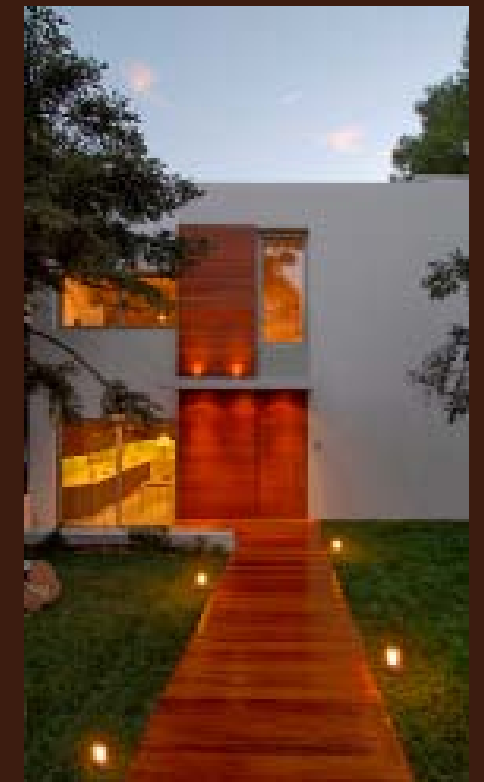
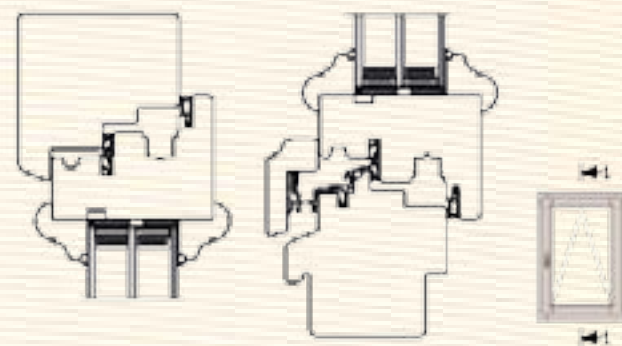
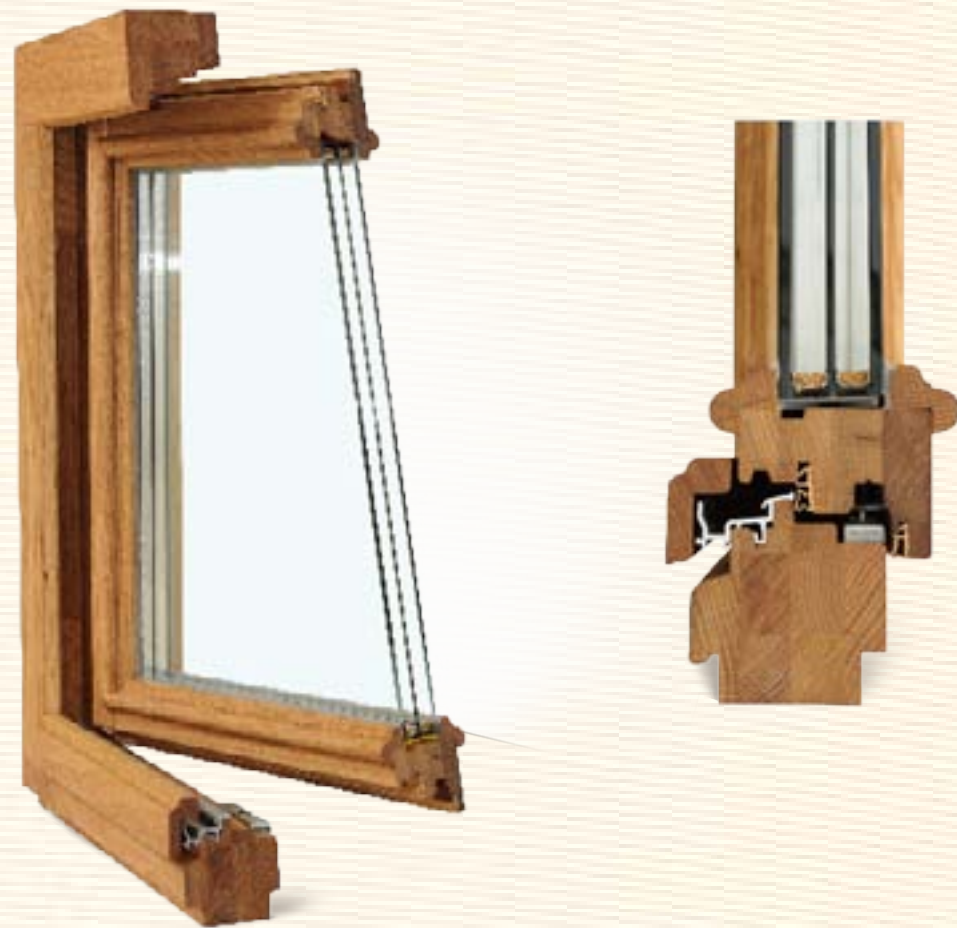
Premmier RUSTIC Door

People who prefer a custom solution no longer have to choose between beauty, practicality and high aesthetic quality. These doors are not only special because of the thoughtful design and reliability but also are suitable for intense use due to special milling cutter used in production.



Premmier RUSTIC Window

Combination of original rustic design and improved performance will impress you and will help you to appreciate classic beauty with modern advances in technology.



Oak natural color samples



Pine natural color samples



CE MARKING IS A MANDATORY CONFORMANCE MARK ON MANY PRODUCTS PLACED ON THE MARKET IN THE EUROPEAN ECONOMIC AREA (EEA). WITH THE CE MARKING ON A PRODUCT THE MANUFACTURER ENSURES THAT THE PRODUCT IS IN CONFORMITY WITH THE ESSENTIAL REQUIREMENTS OF THE APPLICABLE EC DIRECTIVES.

DIN STANDARDS- CONSTRUCTION MATERIALS AND BUILDING (EUROPEAN STANDARDS),

DIN 1027/12208 – WINDOWS AND DOORS -WATER TIGHTNESS,.

DIN 1026/12207 - WINDOWS AND DOORS -AIR PERMEABILITY,

DIN 12211/12210 – WINDOWS AND DOORS -RESISTANCE TO WIND LOAD,

DIN 1191/12400 – WINDOWS AND PEDESTRIAN DOORS- MECHANICAL DURABILITY,

*VALUES ARE BASED ON A WINDOW SIZE OF 4' 4.25" X 4' 10.27" AND A FRAME (WITH THERMAL BARKE)
 $U_F=0.13$ BTU/(H.FT².F), GLAZING $U_G=0.053$ BTU/(H.FT².F), CALCULATED $\Psi_G=0.019$ BTU/(H.FT.F),
VALUE. DOES NOT INCLUDE INSTALLATION.

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VALUE. DOES NOT INCLUDE INSTALLATION.

NFRC AND AAMA RATINGS COMING SOON.

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