

# Bright Prospects for Energy Savings

Energy efficient windows, doors and solar facades



**OPTIWIN**  
INSPIRATIONAL WINDOWS

*“We have taken knowledge of old Tyrolean timber construction and the traditional affinity with nature and applied it to advanced material and energy building technology!”*

Herbert Noichl,  
Managing Director of OPTIWIN



*“Nowadays, energy saving and climate protection are important aspects in the building or renovation of a house!”*

Josef Freisinger,  
Managing Director of OPTIWIN



## **OPTIWIN –** **Rooted in tradition,** **at home in the future**

**OPTIWIN** is an international cooperation of medium-sized window manufacturers, who have made it their goal to develop and market innovative construction components, in particular energy efficient window systems that are also suitable for the passive house, with an ecological and economic approach.

The Group consists of licensing partnerships, which make use of the patents awarded and continually develop them further. Inspired by the huge success of these partnerships, the business cooperation **OPTIWIN** was founded.

Today there are medium-sized companies from several European countries belonging to the **OPTIWIN** Group. They and their customers benefit not only from an on-going technology transfer, but also from uniform quality control mechanisms, cross-company training sessions and a cohesive marketing approach. Common purchasing and distribution channels avoid long journeys and unnecessary costs. Thanks to a comprehensive, decentralised organisational structure, **OPTIWIN** can pass these cooperative advantages directly on to customers. New and further developments are generated solely from the needs of the customer and based on extensive market research.

**OPTIWIN** is flexible, powerful and can therefore respond quickly to changing market demands. Efficiency that you would expect from the technological leader in the field of sustainable passive house windows.



### Alu2Wood Window

- Suitable for all window types (multi-leaf, custom designs, sash bars...)
- Inner layer implemented as a statically bearing structure
- Short renovation times thanks to removable outer layer
- Interior wood types: fir, spruce, larch, oak
- Removable aluminium outer layer
- Slender frame, elegant design
- Custom colour schemes for interior and exterior
- Special functions: sound insulation, sun protection and intrusion prevention
- Custom detailed planning
- up to  $U_w$  0,70 W/m<sup>2</sup>K ( $U_g$  0,5 W/m<sup>2</sup>K)
- Certified connection free of thermal bridges (PHI Darmstadt)
- For renovating also possible without frame insulation ( $U_w$ -value determined according to respective installation situation)



### Wood2Wood Window

Its heat insulation values make it one of the most cost-effective passive house windows of its time. It has been granted a European patent. Details as with Alu2Wood Window; short renovation times thanks to removable wooden outer layer.

### The Alphawin Window: a revolution in the window market

Revolutionary today. Standard tomorrow. Alphawin is the leading product for the next generation of ecological and economic windows from **OPTIWIN**. Cost-saving, energy efficient and revolutionary in terms of material, flexibility and appearance. The new deeper design allows for a flush arrangement of frame and leaf.

- Suitable for fixed and rotary-tilting elements and double leaf windows
- Revolutionary exterior appearance (only glass visible with sash and fixed elements)

- Classic design on the interior side
- Custom colour schemes and detailed planning
- Improved sustainable production for assessments by DGNB or Leed
- Thermal bridge optimised installation specified by design
- Larger proportion of glass thanks to slim line design
- up to  $U_w$  0,64 W/m<sup>2</sup>K ( $U_g$  0,5 W/m<sup>2</sup>K)
- Certified window (PHI Darmstadt)

### OPTIWIN lifting/sliding door and parallel slide-tilt element – More push for much more area

Alu2Wood and Wood2Wood make their grand entrance as a parallel slide and tilt element and lifting/sliding door. The opportunity to combine large sliding elements with normal windows provides designers and builders with extraordinary solutions in terms of quality and flexibility. Even with 3-pane glazing in the standard version or in a combination of wood and aluminium; certified by the Passive House Institute in Darmstadt.

- Inner layer implemented as a statically bearing structure
- Short renovation times thanks to removable outer layer
- Interior wood types: fir, spruce, larch, oak
- Removable aluminium outer layer
- Slender frame, elegant design
- Custom colour schemes for interior and exterior
- Special functions: sound insulation, sun protection and intrusion prevention
- Custom detailed planning
- $U_w$  value determined according to respective, individual solution
- Certified connection free of thermal bridges (PHI Darmstadt)

### OPTIWIN Wooden Front Doors

PREMIUM, the Frostkorken model is the world's first front door to have been certified as passive house compliant by the renowned Passive House Institute in Darmstadt (Germany). Their material composition and ecological insulation ensure a high surface temperature inside and the lowest possible radiation heat loss outside.



# OPTIWIN

## Benefits Package

### OPTImal Synergies

OPTIWIN licensees receive a range of energy-efficient and passive house-compliant products of the highest quality in a promising and constantly growing market segment.

Construction: Double rabbet with special plastic door sill, wall connection rebated in cork or plastered in, available with panic devices EN 179 and EN 1125, fire protection EI 2 30 C available, inner width 1-leaf max.

WxH: 1200 x 2400 mm, inner width 2-leaf max.  
max. WxH: 2400 x 2440 mm

- Frostkorken passive house front door
- 3-way insulating glazing
- Solid wood frame 93 x 93 mm
- Hinges 3D-adjustable in stainless steel
- Solid-core flush door panel, 100 mm thick double rabbet
- GU Secury Automatic, permanent multi-point lock, automatic opening for access control systems
- Available in all types of wood suitable for front doors
- up to  $U_D = 0,72 \text{ W/m}^2\text{K}$
- $Q_{100\text{Pa}} = 1,2 \text{ m}^2/(\text{hm})$
- Sound insulation  $R_{w,P} 37 \text{ dB}$
- Climate class c, d, e
- Intrusion prevention WK II available
- all surfaces possible
- Passive house compliant (certified by PHI Darmstadt)

#### OPTIWIN Solar Facade

- High level of prefabrication
- Fast installation
- Inner layer implemented as a statically bearing structure
- Short renovation times thanks to removable outer layer
- Wood types: fir, spruce, larch, oak can be combined for inside and outside
- Slender frame, elegant design
- Custom colour schemes for interior and exterior  
Natural oils, thin glaze or thick glaze
- Special functions: sound insulation, sun protection and intrusion prevention
- Custom detailed planning
- up to  $U_w 0,72 \text{ W/m}^2\text{K}$  ( $U_g 0,6 \text{ W/m}^2\text{K}$ ,  $U_i 0,69 \text{ W/m}^2\text{K}$ )
- Passive house compliant (certified by PHI in Darmstadt)

All OPTIWIN licences at:

[www.optiwin.net](http://www.optiwin.net)



# OPTImal reasons why you should become an OPTIWIN licensee

- **Exclusive production licences** for products, which will be urgently required in this energy saving age. For you this means a high-quality expansion of your product range without needing to invest a lot of time or money in research and development. An OPTImal WIN-WIN situation.
- **Always up to date:** knowledge transfer for the most innovative and technologically advanced products
- You ARE THE **exclusive OPTIWIN manufacturer** in your field
- Access to and use of **professional marketing and advertising material**
- Continuous involvement and participation in **training and development**
- **International partners**, all pulling together
- Working in a network and enjoying the advantages
- **Exchange of experience** with all partners (synergy effects)
- Joint marketing
- Professional presentation in the public eye
- Access to appropriate and professional photographic material
- **Advertising material and press releases** can be used by all partners
- The use of **OPTIWIN** logos on company stationary and website as well as for public appearances
- Common website platform, which can also be used for your own website
- Service for the partners: PSI value catalogue and calculations
- Programme for order processing
- All addresses of prospective customers, who make an enquiry through **OPTIWIN** will be passed on (currently >100 visitors to the **OPTIWIN** website daily)
- Quick introduction to the production of all systems
- Strength through membership in an active international team
- **Cheaper purchasing:** Thanks to close contacts and larger quantities the purchase of parts from suppliers becomes cheaper and more contractually secure
- Lobbying by the **OPTIWIN** Group
- The PR activities of the **OPTIWIN** Group benefit all partners i.e. your own company
- Financial benefits through joint developments
- Ongoing training and educational opportunities, tailored to individual requirements
- Reduced registration fees for conferences and seminars through membership with the **OPTIWIN** Group
- An image boost for your company through the securing of high quality standards results
- Demand for high quality standards also leads to quality improvements in your company and products
- Participation in supportive measures
- Experience in European patent law
- PSI value calculations with FEM



Your personal contacts for **OPTIWIN** Licensees look forward to your call:  
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