

THE MOST NATURAL THING IN THE WORLD.

GAULHOFER WOOD WINDOWS.

It takes many years for a small seed to grow into a great tree, thereby creating quality wood, which can then become a Gaulhofer window. The interplay between natural material and sophisticated technology, carefully designed and engineered to the last detail, results in a one of a kind window. As a wood window, it is distinctively natural; as a Gaulhofer window, it is a perfectly engineered and precisely manufactured piece of technology – with a most attractive look.





LARCH – A TREE WITH AN IMPRESSIVE HISTORY.

Buildings, roof trusses, portals, doors and windows of churches and palaces in Europe are hundreds of years old and often still as beautiful as they were on their first day.

The larch tree grows and matures in Austria's highest altitude mountain forests. With freezing cold winters, dry summers and extreme weather conditions, the larch tree grows much more slowly than trees in lower altitudes. These conditions cause the wood to be tough, tight grained and very resistant. Our ancestors discovered these natural advantages of larch wood, centuries ago.

At Gaulhofer, we have built on this tradition. We utilize this unique material in the manufacturing of windows. The end result is our Gaulhofer larch wood window, which in combination with our sophisticated technology, is just like the larch tree: robust, durable and extremely attractive.



HOW THE BEST WOOD IS TURNED INTO THE BEST WINDOWS.

Gaulhofer has rediscovered larch wood for window manufacturing. But the best material alone does not guarantee excellent windows. Many production steps and superior technology are required to reach our objective: wood windows of exceptional quality. In this manner, Gaulhofer manufactures window profiles of the highest split and warp resistance using perfected wood laminating methods.

Windows out of larch wood are not just attractive and robust, but also contribute significantly to improving the quality of the air in a room. The wood actually absorbs the ambient air humidity and diffuses it outwards.

SPRUCE. A TREE, YOU CAN BANK ON.



Due to its great strength and structural integrity, spruce-wood has a long history of being used in construction in Austria. At Gaulhofer, we also recognize the outstanding characteristics of this material, which is why we process carefully selected and professionally dried spruce wood for window manufacturing. Spruce: the right choice for high-quality living and for the environment.

However, the best material alone does not guarantee excellent windows. Many production steps and superior technology are required to reach our objective: wood windows of exceptional quality. Gaulhofer manufactures window profiles of the highest split and warp resistance in this manner, with perfected wood laminating methods.

Why not follow along in the next pages and discover how the best wood is turned into wood windows of exceptional quality?

To make your window, we do not process just any wood. We use only the very best wood. After all, you are only interested in the very best windows. Our wood procurement managers have decades of experience in the industry. They ensure that our quality control criteria are precisely met. Only Austrian wood species, harvested in the winter are good enough for subsequent processing – we do what it takes to ensure the exceptional quality of your window.

The European spruce is from the same family as its North American counterpart but is more dense, harder and varies slightly in color.

CUTTING EDGE TECHNOLOGY MEETS NATURE.

Gaulhofer wood windows are the perfect example of combining nature and technology. This process is based on ongoing research and development and our use of superior quality materials. On the following pages you can learn more about the interior of a Gaulhofer window and discover first-hand, what perfect harmony between wood and cutting edge technology is all about.

GIVING YOU PEACE OF MIND.

Gaulhofer wood windows feature the Audiostop® sealing system: triple weather stripping. In addition to the middle and inner weather strip, a third outer strip ensures an excellent standard sound reduction value of 34 dB, providing tightness even with extremely strong winds and ensuring the soundless closing of your windows.

KEEPING IT DRY.






The unobtrusive powder coated aluminum sash flashings protect against rain, snow and hail. They are mounted to the lower sash and frame components and sealed with end caps, compensating temperature-change induced movement that arises from the differing expansion characteristics of wood and aluminum. This ensures a high degree of stability and prevents rainwater from entering beneath the rails. The sash flashing is ventilated.

HOW WE PREVENT THERMAL BRIDGING WITH OUR FLASHING.

Since only the center seal is in contact with the wood, and not adjacent to the sash flashing, warm, humid ambient air cannot get to the aluminum. This in turn prevents the formation of condensation. By utilizing the minimal thermal conductivity of wood, the seal is protected against freezing when the temperature drops.

ENSURING YOU WAKE UP REFRESHED.

Has it occurred to you, that we spend a third of our lives sleeping? Then you will understand how important it is to have a constant supply of fresh air in your bedroom. The exclusive Gaulhofer trickle ventilation, which is based on the latest scientific advancements, involves a special tilt position, in which the window is only opened 10 mm (3/8"). This ensures that the minimum air exchange is 40 m³ (50 cu. yds) per hour, for a room size of 20 m² (200 sq feet), as recommended by leading research institutes. Even when you cannot control ventilation by tilting or opening the window yourself – for example, when you are sleeping. Sleep well and sweet dreams!

GLASSLINE	WOOD/ALUMINUM	WOOD	ENERGYLINE	TOP FIVE	TOP FOURPLUS
FACT BOX WOOD <i>The natural windows</i>					
	U_w-VALUE	> Standard: 1.2 W/m ² K > Optimum: 0.8 W/m ² K	>	Energy-efficient and environmentally friendly	
	TOTAL CONSTRUCTION DEPTH	> 69 mm	>	Improved heat insulation	
	THERMO-STOP®	> Glass spacer prevents condensation	>	Best possible view	
	AUDIO-STOP® SEALING SYSTEM	> Triple weather stripping ensures optimum sound insulation	>	Sound sleep	
	DAMPF-STOP® VAPOUR BARRIER	> Glass stop seal prevents penetration of humid ambient air into the glazing rebate	>	Long product life of window	

SETTING THE TONE WITH OUR COLOR PALETTE

The silver-gray color of our rails and the gray of our triple weather stripping perfectly match all of our hardware. Our stylish color palette adds a touch of uniqueness and elegance to our wood windows.

LONG LIVE OUR GLASS PANES

Our Thermostop® glass spacer and the ventilated glass chamber provide optimum protection against the formation of condensation. Careful manual sealing between glass rail and window stock also prevents the penetration of ambient air into the glazing rebate. This guarantees that both glass panes and window will have a long life.

ANOTHER GAULHOFER EXCLUSIVE: DAMPFSTOP® VAPOR BARRIER.

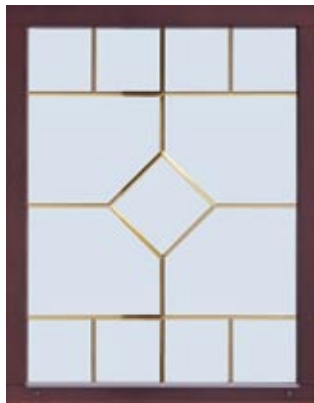
The glass stop seal with permanent elastic silicone prevents any humid ambient air from entering the glass chamber. This is the only reliable method to prevent the penetration of moisture and damage of the wood finishing layers in the long run. With the Gaulhofer Dampfstop® sealing system, moisture infiltration by vapor pressure and fogging between the glass panes is ancient history.



AS MUCH DIVERSITY AS IN NATURE.

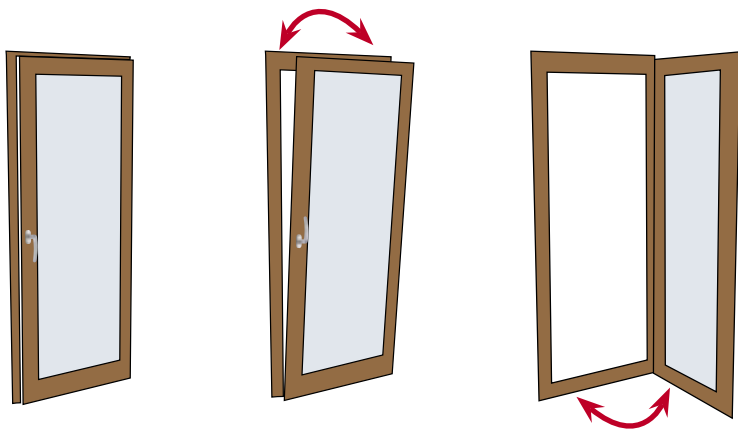
Gaulhofer windows come in a large diversity of colors and shapes. Let your imagination run wild ... and give your home a face-lift. Let us help you realize your ideas. Gaulhofer windows can be customized to suit all of your needs. Our palette ranges from straight edge and transom windows to special rake forms as well as arch and circular windows. If you have a certain request, we can custom-manufacture windows for you. Even with the most unusual shapes, you can rely on the high-precision work and perfect functionality our customers have come to trust.





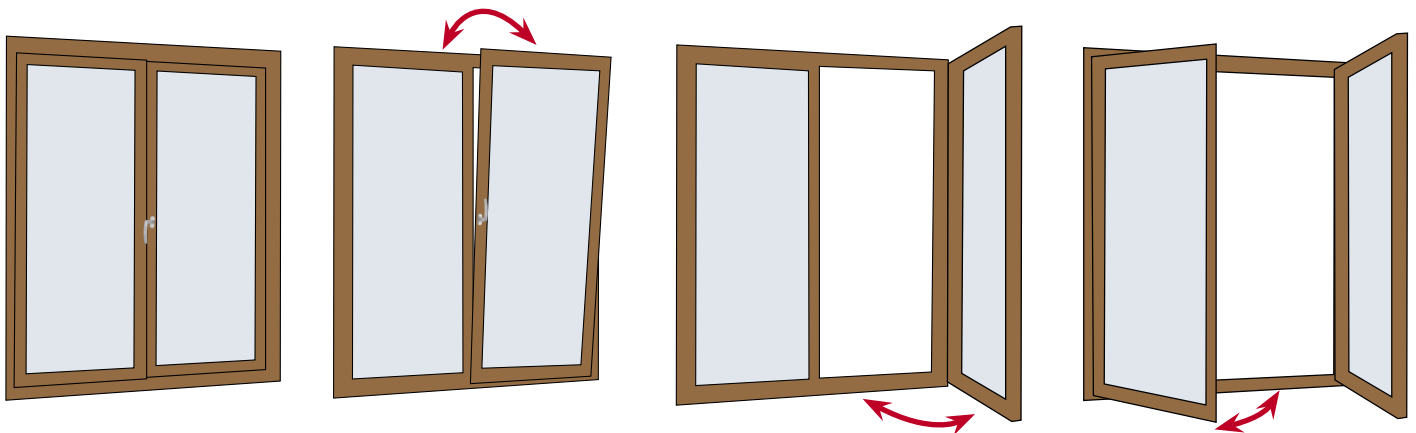


THE WAY WE MOVE.



The inward swinging Tilt and Turn patio door, not only functions the same as our window, but is also built with the same sense of B and E security, ventilation and ease of operation. A single handle operates all 3 functions; the multiple locking points for safety, the tilt function for gentle air movement and the turn option for maximum ventilation. With our T&T patio door and the tilt position it is now possible for cross ventilation with out compromising security. Our hinging mechanism provides enough carrying capability to hold the weight of a healthy individual of 130 kg or 290 lbs, while it still tilts and turns like a window. Because the patio doors and windows have the same construction you can have a uniform look between the two in the design of your home.

Double tilt and turn window operates much like our single Tilt and Turn window, keeping security, ventilation and functionality in mind. There is one handle on the first opening sash which controls tilting and turning operation. In the tilt position this window can be used for gentle ventilation. Once the first opening sash is in the turn position, a single lever on the second sash can be lifted, making the opening of the second sash possible. Since the construction is the same as our double french door we can reach a size of 2400 mm [8'] high and 2000 mm [6'6"] wide or a height of 2700 mm [9'] maybe possible depending on the weight of the sash. With a wheel chair accessible threshold, sidelight and a few other options, this double window can becomes a stunning front door, the grand entrance to your home.





For larger openings there are tilt and slide, lift and slide and folding doors available. Below is the most advanced European folding door on the market today. Our 6 panel door can function as a French door when only the 2 center sashes are used. To open a wall section with a width of up to 16'5" only 2 additional handles need to be operated. Even with 6 moving panels we offer the multi point locking, triple weather striping and ease of operation you will find only on a Gaulhofer product. This is the perfect door for the pool side patio or a spectacular view opportunity where the outside is invited in to the house. Like all our other windows and doors this unit can be adjusted and fine-tuned after your house has had a chance to settle.

