GAULHOFER QUALITY OF LIFE.

WINDOWS, ENTRANCE DOORS, INSECT SCREENS 2016/2017.



GAULHOFER. A WINDOW FOR A LIFE-TIME.



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THE BENEFITS OF GAULHOFER NATURELINE AT A **GLANCE:**

- Available in spruce, larch and oak
- U_w best values of 0.66 W/m²K
- Large selection of paints and glazes
- Unique manufacturing quality
- Installation depths of 78 mm or 92 mm





THE BENEFITS OF GAULHOFER FUSIONLINE AT A GLANCE:

- Available in spruce, larch and oak
- U_w best values of 0.65 W/m²K
- Improved structural characteristics
- Highest selection of aluminum profiles and colors to ensure personalization
- Installation depths of 94 mm or 108 mm

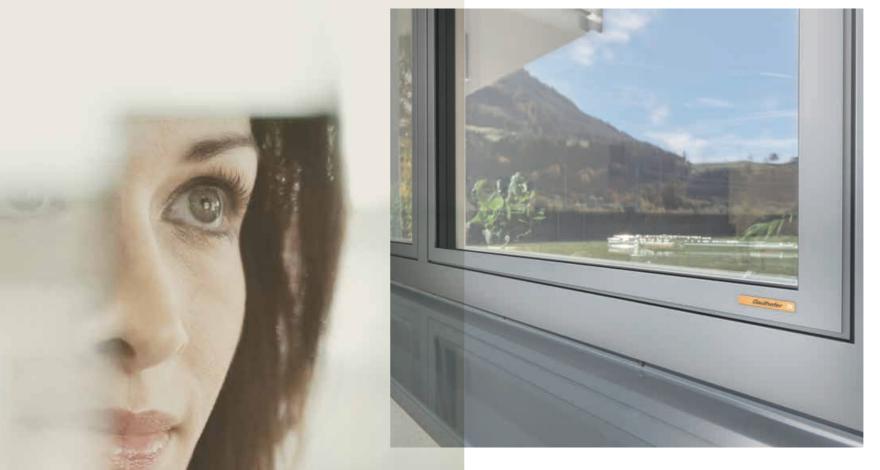




LESS IS MORE!

INLINE: A NEW GENERATION OF COMPLETELY FLUSH WOOD-ALUMINUM WINDOWS.

More glass, less frame: With the new INLINE product line, GAULHOFER presents a wood-aluminum window that is flush on the inside and the outside featuring matured building physics and first class insulation characteristics. The extra slim wing is divided from the cover frame only by a delicate connection joint: This is what elegance in window construction looks like! With its new INLINE product line, GAULHOFER creates a new generation of flush design





INLINE'S ADVANTAGES AT A GLANCE.

- Available in spruce, larch and oak
- Highly sought after slim design profile with flush interior and exterior design
- U_w best values of 0.67 W/m²K
- 91 mm construction depth with standard triple glazing
- The unique GAULHOFER wet sealing provides a hermetically sealed glass joint inside and outside



Exclusive INLINE construction.

For a well-supported glass on the outside.

ALL MODELS AT A GLANCE.



WOOD **NATURELINE** 78

Uw-values between 1.2 and $0.70 \, \text{W/m}^2 \text{K}$



WOOD-ALU **FUSIONLINE 94 PURE**

Uw-values between 1.2 and $0.70 \, \text{W/m}^2 \text{K}$



WOOD-ALU **FUSIONLINE 108 PURE**

Uw-values between 0.82 and 0.65 W/m²K



WOOD **NATURELINE** 92

Uw-values between 0.82 and 0.66 W/m²K



WOOD-ALU **FUSIONLINE 94** SOFT

Uw-values between 1.2 and $0.70 \, W/m^2 K$



WOOD-ALU **FUSIONLINE 108** SOFT

Uw-values between 0.82 and $0.65 \, \text{W/m}^2 \text{K}$



WOOD-ALU **INLINE** 91

Uw-values between 0.77 and 0.67 W/m²K



WOOD-ALU **FUSIONLINE 94** PLANE

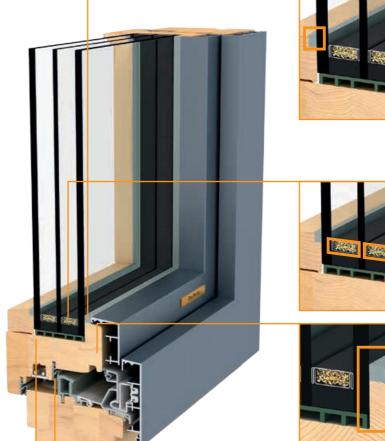
Uw-values between 1.2 and $0.70 \, W/m^2 K$



WOOD-ALU FUSIONLINE 108 PLANE

Uw-values between 0.82 and 0.65 W/m²K

TECHNOLOGY & BENEFITS WOOD/WOOD-ALUMINUM.



Elaborately press-fitted and deburred by hand at the GAULHOFER factory, GAULHOFER'S wet sealing made from UV-resistant silicone hermetically and durably seals the glass joint. Contrary to conventional dry glazing methods, this provides protection against uncontrolled moisture ingress into the wood. Thus, the glass edge is almost 100 % protected against the cold exterior climate.

Thermally optimised Thermostop® (standard) or Thermostop®Plus (optional) glass spacers improve the glass edge's thermal insulation performance and counteract condensation.

PROTECTED

Elaborately glazed from the inside, the glass panes of GAULHOFER windows (NATURELINE, FUSIONLINE) are protected against the outside by a massive glass stop made from the respective sash material. Thus, the glass edge is almost 100 % protected against the cold exterior climate.

An exclusive GAULHOFER innovation: Dampfstop® protects the ingress of moist room air from the inside atmosphere into the glass rebate. This keeps the glass composite dry and the sash wood pretty. An invisible life insurance for your window.

The refined GAULHOFER Audiostop® technology works with three circumferential seals. The centre seal is ideally positioned to effectively separate the cold exterior atmosphere from the warm and moist interior atmosphere. This efficiently prevents the formation of condensation in the rebate area. Another advantage yielding even better thermal insulation.

TRADITIONAL CRAFTSMANSHIP MEETS INDUS-TRIAL PRECISION.

performance promise are true characteristics of quality making a GAULHOFER window into what it is: A no-compromise premium product that lasts longer.

This sets wooden and wood-aluminium GAULHOFER windows apart from other windows.

THE WOOD.

GAULHOFER ONLY USES WOOD OF THE HIGHEST

The wood used on GAULHOFER windows is particularly hard and durable. The windows don't get warped and remain stable. Thanks to its natural aesthetics, pleasant surface feel, scent and its moisture compensating properties, the wood significantly contributes to well-being in one's own four walls.

GAULHOFER's wooden and wood-aluminium windows are made from one hundred percent large-diameter logs of the highest wood grade A, namely only domestic spruce and alpine larch sourced from sustainably managed forests. The trees are lumbered in winter, when they are not "full of sap" which means the wood is less moist which increases drying quality. In slat shape, the wood is prepared using a natural open-air drying method and subsequently technically dried to reach a 13-percent wood humidity optimal for its area of application. After that, the slats are manually sorted and glued together. This yields at best triple frame components with optimum resistance against distortion.

THE CORNER JOINTS.

CORNER JOINTS FOR LIFE-LONG STABILITY.

Thanks to the corner joints' stability, the window sashes remain stable, even in case of extremely high glass weight. Opening, closing and tilting them works entirely comfortably – for the window's entire life cycle.

Due to the fact that window panes become ever larger and heavier stress on the sashes grows steadily. GAULHOFER's special double-slit pin joint connection is a fitting system which excels through highest levels of strength even when subjected to enormous loads. Elaborate endurance tests attest that. The pins offer a lot of space for the wood glue and perfectly fit into the slits.

This system is far superior to the more easily produced dowel joint system and is therefore standard equipment in the blind frames and sashes of GAULHOFER wood and wood-aluminium windows.



WET SEALING. WITH MANUAL SMOOTHING.

Careful sealing and the manual removal of excess silicone lastingly protect the window's sensitive areas such as the joint area of glass and wood or aluminium. The windows remain completely tight – from inside and outside.

GAULHOFER's silicone is not your ordinary silicone. Furthermore, it is not transparent like the one used by many other manufacturers but uniformly grey. Thanks to this, it stays **UV-resistant** in the long run and, together with the seals and rain protection rails, provides a uniform appearance.

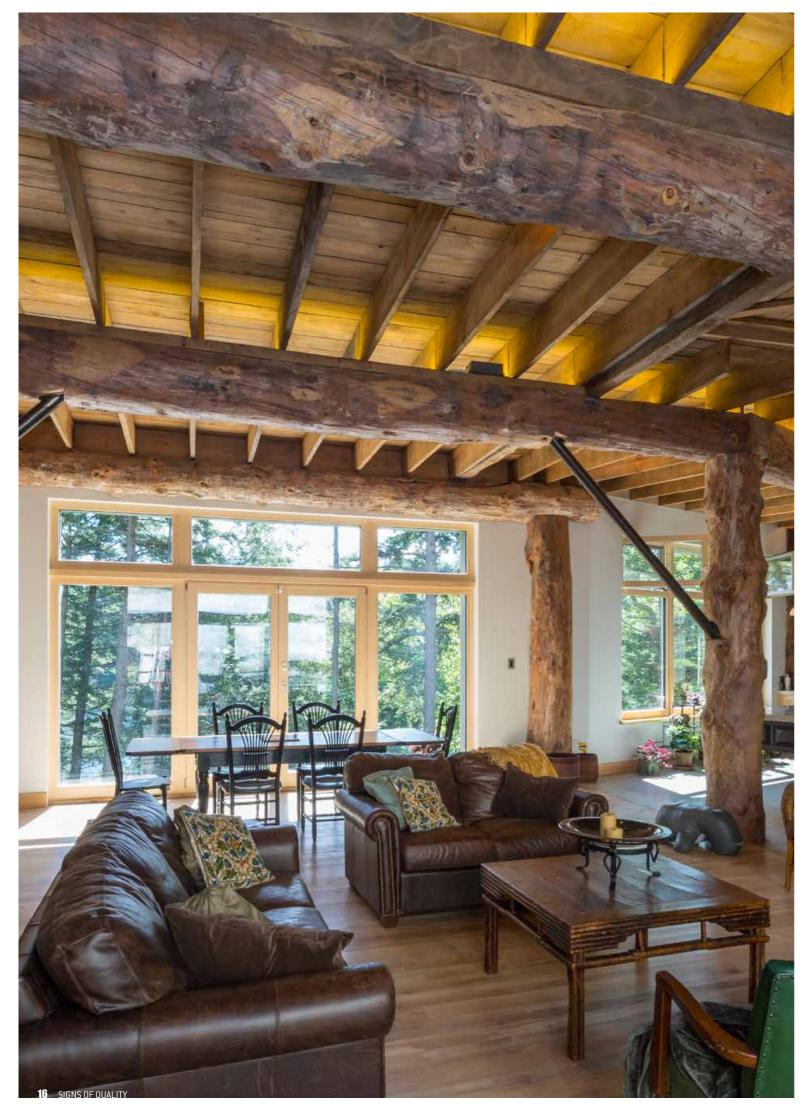
GAULHOFER silicone is also permanently elastic and thus, able to compensate the different material-dependent linear expansion of wood, aluminium and glass. This makes the silicone joint tight. By the way, at GAULHOFER, this joint is smoothed manually. The result: a visually perfect joint, which, thanks to manual press-fitting, yields the required pressure for the silicone's life-long adhesion.



Permanently tight.



Press-fitted by hand.

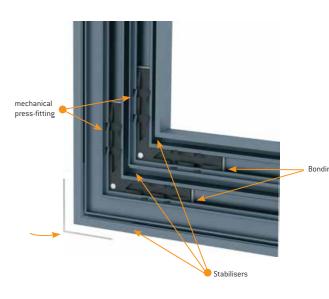


THE ALUMINIUM SHELL.

MULTIPLY PROTECTED CORNERS.

The corner joints' triple protection makes sure that the aluminium shells in the corners remain just as straight, beautiful and smooth as on the face. And thus, as pretty as on the first day, even after many years of use.

GAULHOFER goes the whole nine yards. This is why GAULHOFER also equips the aluminium shells' corner joints on wood-aluminium windows with a **triple protection** system to guarantee beauty, stability and durability. **Stabilisers** in the corners protect the aluminium shell from distortion and the mechanical press-fitting with plastic corner angles and additional glueing make sure that the corner joints fit **permanently closed and smooth** in the surface.



FLEXIBLE MOUNTING.

Thanks to the stable and flexible mounting of the aluminium shell, it permanently retains its shape and beauty and protects the structure underneath in a technically perfect way.

GAULHOFER's aluminium shell is attached to the blind frame and sash frame via plastic pivot and slide bearings. Thus, it retains its full range of motion in case of temperature changes. This gapped mounting method provides adequate back ventilation of the aluminium shell to permanently protect the structure from moisture build-up and penetration.

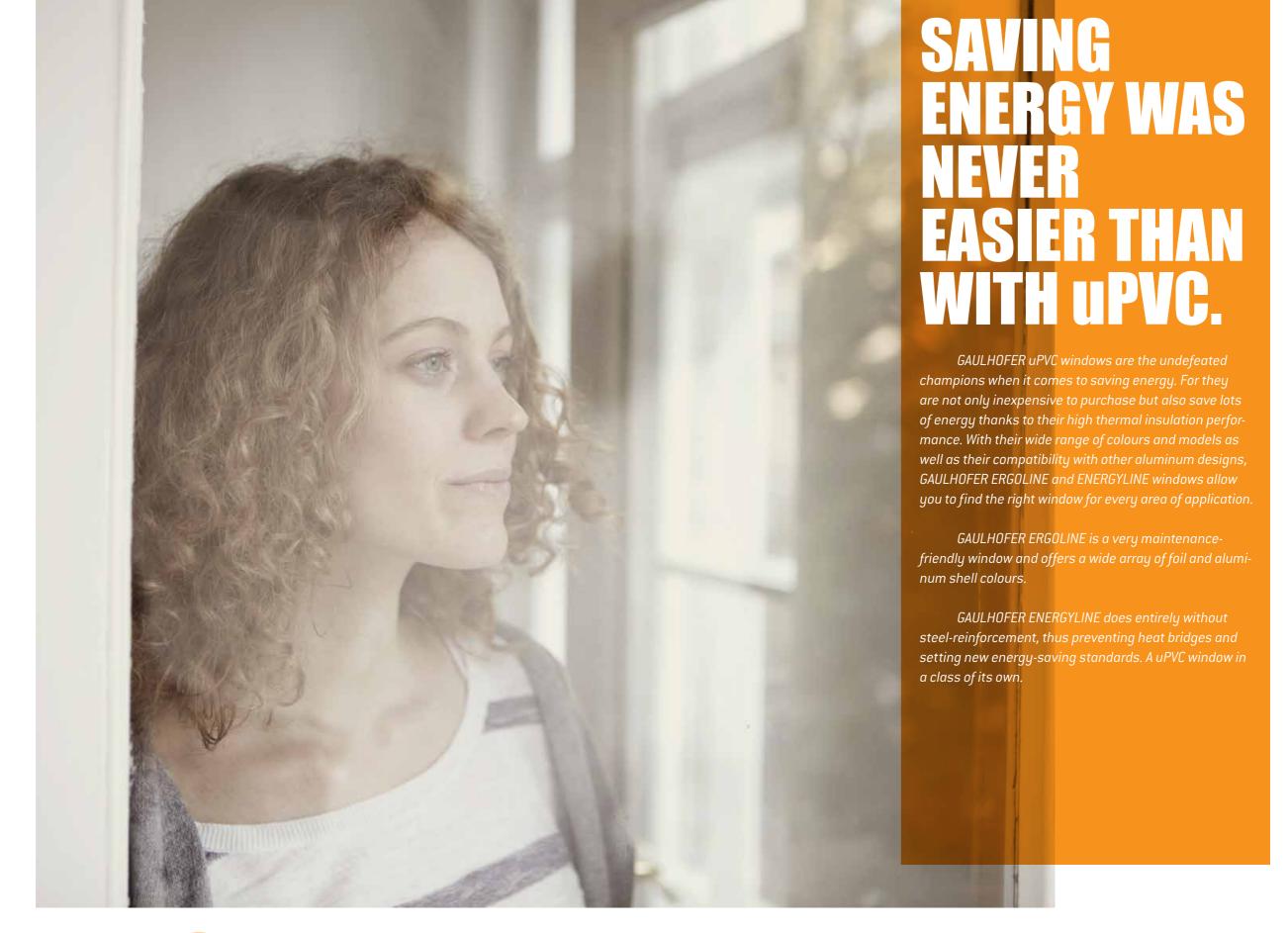


REAR-VENTILATED ALUMINIUM RAIN GUARD — FOR OPTIMAL PROTECTION FROM WIND AND WEATHER.

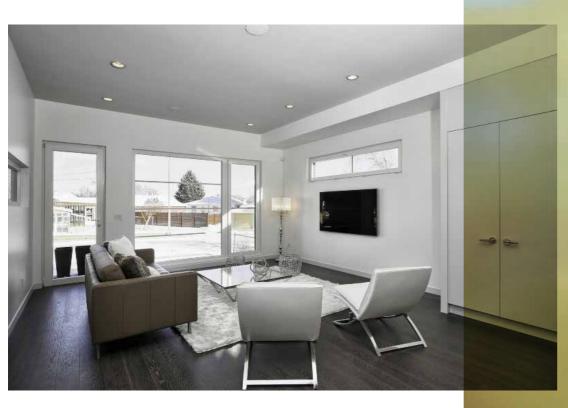
The flexible, back-ventilated GAULHOFER rain guard optimally protects the window from the sun, rain and hail – for the window's entire life time. The smooth, beautiful aluminium surfaces offer many design possibilities, are almost maintenance-free and retain their appearance for years.

Thanks to their facing aluminium shell and rain protection rail with permanently elastic end caps, GAULHOFER wood-aluminium windows are protected **all-around** from the weather. At GAULHOFER, the aluminium shell with its **particularly high profile thickness** of up to 1.6 mm is naturally back-ventilated and not — as is common practice — glued to the wood with synthetic foam. Only this allows the condensate accrued due to vapour diffusion to drain freely and dry up quickly thanks to air circulation. **Humidity is optimally drained** from the window's structure and the wood is **protected** against direct weathering as a result of UV rays, hail or driving rain.



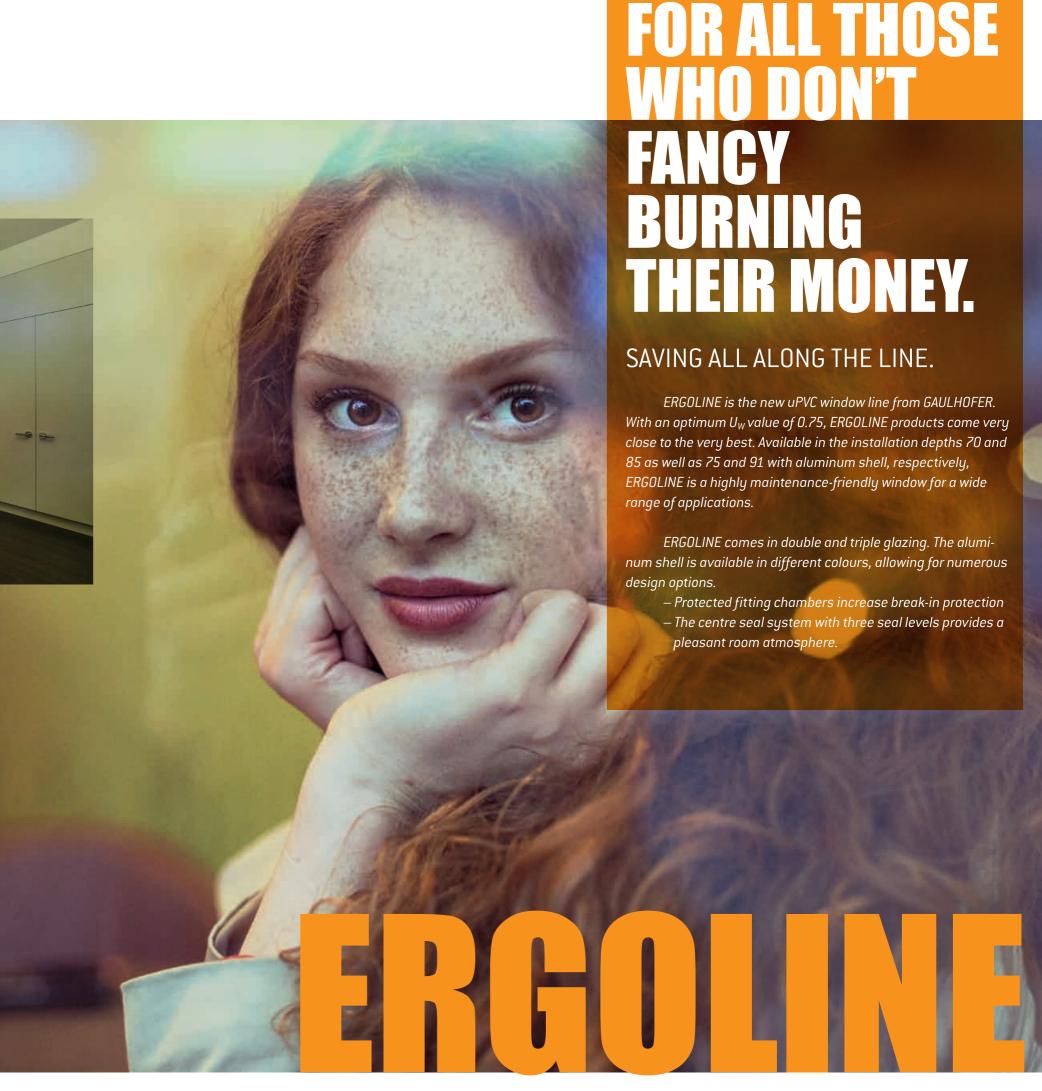








- Excellent insulation values: Optimum U_W value: $0.75 \text{ W/m}^2\text{K}$
- Protected fitting chambers form optimum break-in protection
- Available in numerous décor variants
- Installation depths 70/85 and 76/91 (with aluminum shell)



INTRODUCING OUR UPVC ENERGY SAVING CHAMPION.

THE CLASS LEADERS IN SAVING ENERGY.

GAULHOFER ENERGYLINE sets new standards when it comes to saving energy. This makes it the perfect choice for low energy as well as passive houses and more. Its high-tensile profile with PowerDur glass fibre reinforcement does without steel-reinforcement, thus preventing heat bridges and providing an optimum U_W value of 0.59 W/m²K (ENERGYLINE PLUS).

Its design captivates with clear lines and a slim appearance. Furthermore, it offers a rich array of foils (see p. 55). The aluminum shell is available in the designs PURE, SOFT and PLANE. Technical innovations combined with timeless design: That's GAULHOFER **ENERGYLINE!**





THE BENEFITS OF **GAULHOFER ENERGYLINE** AT A GLANCE:

- Unequalled insulation values: U_W top value: $0.59 \, \text{W/m}^2 \text{K}$
- Reinforcement without thermal bridges thanks to elimination of steel
- Highly stable glass-fibre reinforcement PowerDur in frame
- Installation depths of: 70 mm or 85 mm

PVC AND ALUMINUM. FRIENDS FOR LIFE.

uPVC ALUMINUM ENERGYLINE: THE ENERGY SAVING EXPERT HAS DRESSED TO THE NINES.

Perfect windows with perfect protection: The slim uPVC-aluminum ENERGYLINE 91 is available with all GAULHOFER aluminum shell designs (PURE, SOFT and PLANE). ENERGYLINE 76 comes in the popular PURE design. The entire GAULHOFER aluminum colour range is available for both. Apart from the extremely weather-resistant quality of the GAULHOFER aluminum programme, you thus have an extraordinary wide range of design possibilities at your disposal.



THE BENEFITS OF GAULHOFER ENERGYLINE **ALU AT A GLANCE:**

- Unequalled insulation values: U_W top value: 0.59 W/m²K.
- Superior ENERGYLINE technology with aluminum protection.
- Individual layout thanks to aluminum design and color range.
- Installation depths of: 76 mm or 91 mm.

Other aluminum design variants



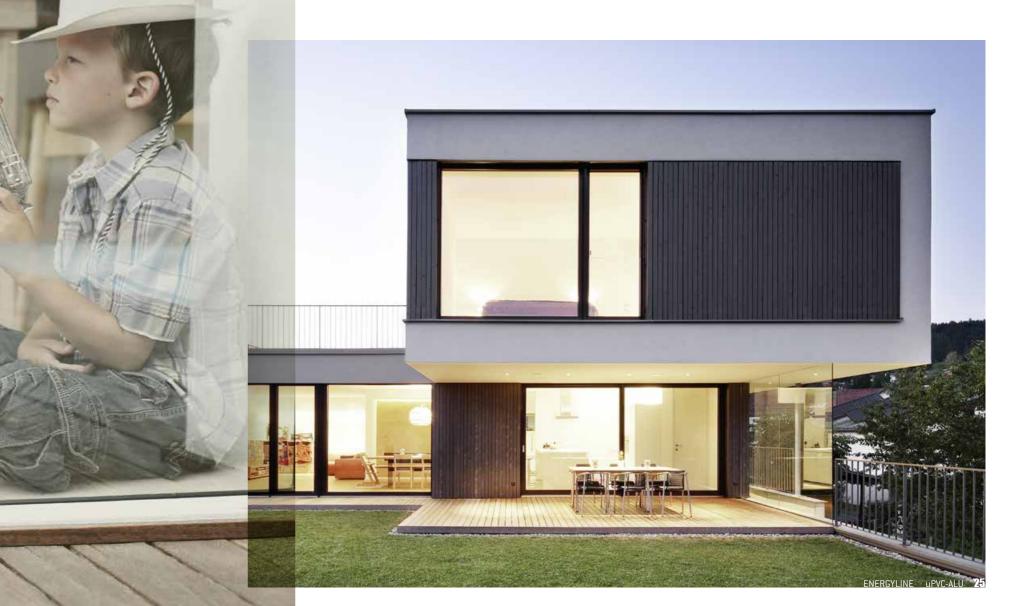
SOFT.

The semi-recessed aluminum shell does without hard corners or edges and yet showcases clear lines.



PLANE.

This stepless aluminum shell gives the outside appearance a maximum of straightforwardness: unpretentious and plane!



TECHNOLOGY & BENEFITS OF ENERGYLINE.



POWERDUR. STRONG WITHOUT STEEL!

With the ENERGYLINE, GAULHOFER presents its Plastics product range without steel reinforcement in all systems – both in the blind frame and in the wing! The particularly developed highly stable PowerDur glass fibre reinforcement is a real high-tech innovation and makes the thermally disadvantageous steel reinforcements obsolete. It prevents thermal bridges and correspondingly ensures significantly improved insulation properties, increased living comfort and less heating costs. Furthermore, the light-weight construction also offers several benefits.



Glass spacers

THERMOSTOP® AND THERMOSTOP® PLUS. BEST GLASS SPACERS.

Thermally optimized glass spacers – such as the standard Thermostop® or the optionally available Thermostop®Plus – improve the heat insulation of the glass edge and counteract the annoying formation of condensate on the glass.



PowerBond bonding

POWERBOND. **GLUED AND INSULATED** ALL ROUND.

Thanks to the homogeneous, highly durable Power-Bond bonding method used to join glass and sash, the window sash always maintains its given shape. This novel bonding method makes it extremely dimensionally stable and warp resistant, even compared to other bonded systems.

ALL MODELS AT A GLANCE.



ERGOLINE

Uw-values between 1.3 and $0.81 \, W/m^2 K$



ENERGYLINE

Uw-values between 1.2 and $0.75 \, \text{W/m}^2 \text{K}$



uPVC-ALUMINUM **ENERGYLINE PLUS**

Uw-values between 0.75 and $0.59 \, \text{W/m}^2 \text{K}$



uPVC-ALUMINUM **ERGOLINE** 76 PURE

Uw-values between 1.3 and 0.81 W/m²K



uPVC-ALUMINUM **ENERGYLINE 76 PURE**

Uw-values between 1.2 and $0.75 \, \text{W/m}^2 \text{K}$



uPVC-ALUMINUM **ENERGYLINE 91 PURE**

Uw-values between 1.2 and 0.64 W/m²K



ERGOLINE 85

 U_w -values between 1.2 and $0.75 \, \text{W/m}^2 \text{K}$





ENERGYLINE

 U_W -values between 1.2 and $0.64 \, W/m^2 K$



ENERGYLINE PLUS U_w -values between 0.75 and

 $0.59 \, \text{W/m}^2 \text{K}$



uPVC-ALUMINUM **ENERGYLINE 91 SOFT**

Uw-values between 1.2 and $0.64 \, \text{W/m}^2 \text{K}$



uPVC-ALUMINUM **ENERGYLINE 91 PLANE**

Uw-values between 1.2 and $0.64 \, \text{W/m}^2 \text{K}$

WIDER VIEW.

REAL GENEROSITY: LARGE GAULHOFER ELEMENTS OPEN UP THE EXTERIOR.

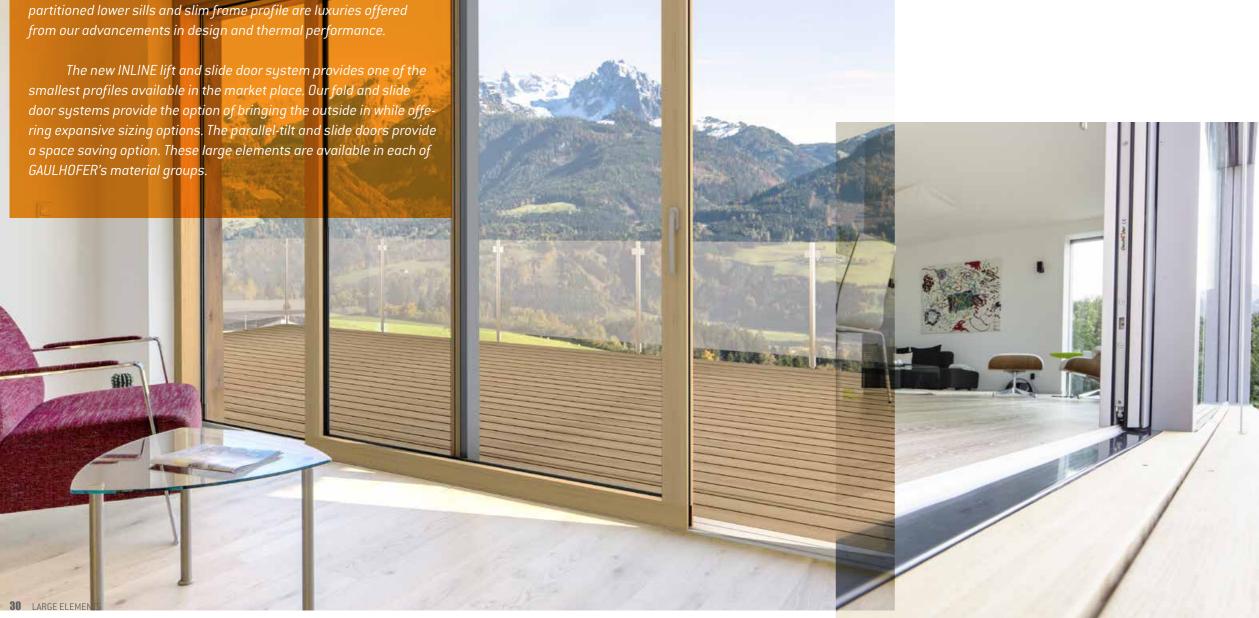
Never before have humans spent more time indoors and less outdoors. Consequently, it is a central element of contemporary quality of living and life to be able to open indoor space to the outside — in the most generous way. GAULHOFER large elements create openness to the outside world and offer literally low-threshold and no-threshold transitions: more light, air and freedom, while maintaining maximum security in terms of thermal insulation.





GAULHOFER'S LARGE ELEMENTS OFFER PERFECT SOLUTIONS
WITHOUT MAKING COMPROMISES IN
TERMS OF QUALITY AND THERMAL INSULATION.

Using GAULHOFER lift and slide doors, one can properly allow large glass surfaces to become the reality. Generous construction depths make the respective glass assemblies possible. Their partitioned lower sills and slim frame profile are luxuries offered



THE BENEFITS OF GAULHOFER LARGE ELEMENTS AT A GLANCE:

- Luxurious: lift and slide doors for really large glass surfaces
- Generous: fold and slide doors open whole walls
- Practical: parallel slide and tilt doors are extra-flexible
- Can be perfectly combined with all GAULHOFER window systems



GUSTOMISED



COMPLETELY HIDDEN— OUTSTANDING LOAD BEARING CAPACITY.

BETTER FITTINGS FOR THE BEST WINDOWS.

Each GAULHOFER fitting is a high-end product full of intelligent details: rolling mushroom pins, anti-friction coating and highly stable materials for utmost operationa comfort are included by standard; this also applies to the stable locking by means of several mushroom pins to increase safety.

The new, fully covered GAULHOFER solution offers a very attractive design without visible indoor fittings; it also allows for integration of a surrounding seal in the sash rebate. Thanks to the very high load-bearing capacity of the fitting (up to 150 kg), large window dimensions are also possible with the heavy 3-fold glazing.

TOP-DESIGNER-HANDLE "BOW"

Natural, anodized, SECUSTIK®

Easy to grip!
The subtly bow-shaped handle
with SECUSTIK® technology is
pleasant to the touch, and embodies perfected, elegantly realized
product design.



HANDLE "REGULAR"

Natural, anodized

Just elegant!
The design of the GAULHOFER standard handle REGULAR offers discreet elegance. It is also optionally available in two lockable versions with key or press button.



TOP-DESIGNER-HANDLE "STRAIGHT"

Stainless steel look, SECUSTIK®

Playing it safe!
The straightforward top design handle with SECUSTIK® technology offers even better protection against burglars through its novel, acoustically supported locking mechanism.



TOP-DESIGNER-HANDLE "PURE"

Stainless steel look, SECUSTIK®

Purist!

With its angular, plain stainless steel look, this top designer handle is geared to today's trend. Likewise, with SECUSTIK® technology!

Please ask your GAULHOFER partner for more handle options.



- Extremely high load-bearing capacity: up to 130 kg by default, and up to 150 kg when fully covered
- Elegant inside view with fully covered version
- Extra-safe thanks to multiple mushroom pin locking





34 FITTINGS 35

YOU'RE ON THE SAFE SIDE.

Statistics don't lie. The number of house and flat break-ins has recently increased. More than 80% of all break-ins are committed by prising open windows and casement door on terraces or balconies. Not many houses are broken in through the front door and window panes are broken even more seldom.

That's why it's particularly important to protec windows and casement doors against being prised open, thus making life harder for burglars.

With the adequate security equipment from GAULHOFER, this becomes child's play.

KEEP A FIRM GRIP.





Secustik®

NICE TO THE TOUCH.

The "ATLANTA-BOW" designer window handle with Secustik® comes with a special locking mechanism. This makes it harder for unauthorised persons to move the window handle from the outside. When turning the Secustik® handles, the self-locking locking mechanism precisely snaps into place in different handle positions.



STRONG BOND.

The laminated safety glass offers increased protection against attacks such as breaking or cutting.



AS SAFE AS A VAULT.

The "TRESOR" window handle convinces with technically mature and tested mechanisms. Extremely high and tested resistance values (100 Nm) protect the handle from being ripped off from the window sash and the locking mechanisms from being sheared off.

4 TIMES MORE SECURE.

Gaulhofer's 4-point locking mechanism makes **prising open windows 4 times as difficult as on windows with standard equipment.** The windows are **ADDITIONALLY equipped with 4 mushroom pins** made from special steel. With their T-shape, they interlock with **sturdy die-cast locking parts**. Every one of these locking parts is **triple-screwed to the frame**.



Mushroom pin locking mechanism

36 SECURITY 37



Our new design enhancements further increase technical efficiency values and continue GAULHOFER's longstanding promise of producing - windows for a lifetime! All values are according to European standards.







uPVC-ALUMINUM ERGOLINE 85/91



uPVC-ALUMINUM uPVC-ALUMINUM **ENERGYLINE 70/76 ENERGYLINE 85/91**



uPVC-ALUMINUM **ENERGYLINE PLUS 91** (fig. PURE)

HEAT INSULATION (AND SOUND INSULATION) USING HEAT-INSULATING GLASSES.

Your window achieves the following U_w-values by using the established heat-insulating glasses and our spacers **ALUMINUM**, **THERMOSTOP®** or **THERMOSTOP® PLUS**:

Glazing	GLAS- TYPE	U _g -VALUE	ALUMINUM	THERMOSTOP	ALUMINUM	THERMOSTOP	THERMOSTOP	THERMOSTOP PLUS	THERMOSTOP	THERMOSTOP PLUS	THERMOSTOP	THERMOSTOP PLUS
5			(U _w -V	ALUE)	(U _w -V	ALUE)	(U _W -VALUE)		(U _W -VALUE)		(Uw-VALUE)	
	GM11	1.1	1.3 (1.30)*	1.2 (1.22)	1.2 (1.23)*	1.2 (1.16)	1.2 (1.16)*	1.2 (1.15)	1.2 (1.16)	1.1 (1.15)		
2-fold			Best R _w -va	alue 42 dB	Best R _w -va	alue 44 dB	Best R _w -va	alue 42 dB	Best R _w -va	alue 44 dB		
2-fe	GM10	1.0					1.1 (1.09)	1.1 (1.08)	1.1 (1.09)	1.1 (1.08)		
							Best R _w -va	alue 42 dB	Best R _w -va	alue 43 dB		
	GM07	0.7	1.1 (1.01)	0.94	0.96	0.89	0.89	0.88	0.87	0.85	0.81	0.79
			Best R _w -value 38 dB		Best R _w -value 45 dB		Best R _w -value 38 dB		Best R _w -value 46 dB		Best R _w -value 46 dB	
	GM06	0.6	0.94	0.88	0.89	0.82	0.82	0.81	0.80*	0.78	0.75*	0.72
3-fold			Best R _w -value 33 dB		Best R _w -value 45 dB		Best R _w -value 33 dB		Best R _w -value 46 dB		Best R _w -value 46 dB	
3-6	GM05	0.5	0.87	0.81**	0.83	0.75**	0.75**	0.74	0.73	0.71	0.68	0.66
			Best R _w -value 38 dB		Best R _w -value 45 dB		Best R _w -value 38 dB		Best R _w -value 46 dB		Best R _w -value 46 dB	
	GM04	0.4							0.66	0.64**	0.61	0.59**
									Best R _w -va	alue 43 dB	Best R _w -va	alue 43 dB

HEAT INSULATION (AND SOUND INSULATION) USING SUN-PROTECTION GLASSES.

Thanks to our sun-protection glasses, you achieve low g values (energy permeability) and low T_L values (translucence) of $g = 35 \% / T_L = 54 \%$ with 3-pane glazing and $g = 34 \% / T_L = 61 \%$ with 2-pane glazing. The table shows heat insulation and sound insulation values with such glazing.

2-fold	GR11	1.1		1.2 (1.16)	1.1 (1.15)		
				Best R _w -value 42 dB			
	GR07	0.7		0.87	0.85	0.81	0.79
				Best R _w -value 42 dB		Best R _w -value 42 dB	
3-fold	GR06	0.6		0.80	0.78	0.75	0.72
3-fe				Best R _w -value 43 dB		Best R _w -value 43 dB	
	GR05	0.5		0.73	0.71	0.68	0.66
				Best R _w -value 43 dB		Best R _w -value 43 dB	

HEAT INSULATION (AND SOUND INSULATION) USING SOLAR GLASSES.

Our solar glasses achieve high g values of 61 % and high T_L values of 73 %. The table shows heat insulation and sound insulation values with such glazing.

	GS07	0.7		0.87	0.85	0.81	0.79
3-fold				Best R _w -va	alue 43 dB	Best R _w -va	alue 43 dB
3-6	GS06	0.6		0.80	0.78	0.75	0.72
				Best R _w -value 43 dB		Best R _w -va	alue 43 dB



WOOD NATURELINE 78



WOOD NATURELINE 92



WOOD-ALUMINUM **INLINE 91 SLIM**



WOOD-ALUMINUM FUSIONLINE 94 (fig. PLANE)



WOOD-ALUMINUM FUSIONLINE 108 (fig. PURE)

*Standard U_w-values **Best U_w-value

*) The design for U_o 0.8 allows for 43 dB.

**) The design for U_g 0.6 allows for 43 dB.

THERMOSTOP	THERMOSTOP PLUS	THERMOSTOP	THERMOSTOP PLUS	THERMOSTOP	THERMOSTOP PLUS	THERMOSTOP	THERMOSTOP PLUS	THERMOSTOP	THERMOSTOP PLUS
(U _W -VALUE)		(U _W -VALUE)		(U _W -VALUE)		(U _w -VALUE)		(U _W -VALUE)	
1.2 (1.20)* 1.2 (1.19)						1.2 (1.19)*	1.2 (1.17)		
Best R _w -v	alue 45 dB					Best R _w -va	alue 45 dB		
1.1 (1.14)	1.1 (1.13)					1.1 (1.12)	1.1 (1.10)		
Best R _w -v	alue 42 dB					Best R _w -va	alue 42 dB		
0.91	0.90	0.88	0.86	0.91	0.87	0.92	0.90	0.89	0.85
Best R _w -va	lue 42*) dB	Best R _w -value 45 dB		Best R _w -value 38 dB		Best R _w -value 42*) dB		Best R _w -value 45 dB	
0.84	0.83	0.82*	0.79	0.84	0.81	0.85	0.83	0.82*	0.78
Best R _w -v	alue 42 dB	Best R _w -value 48 dB		Best R _w -value 38 dB		Best R _w -value 42 dB		Best R _W -value 47 dB	
0.78	0.76	0.75	0.72	0.77*	0.74	0.78	0.76	0.75	0.72
Best R _w -val	lue 41** []] dB	Best R _w -value 45 dB		Best R _w -value 38 dB		Best R _w -value 41**) dB		Best R _w -value 45 dB	
0.71	0.70**	0.68	0.66**	0.70	0.67**	0.72	0.70**	0.69	0.65**
Best R _w -value 39 dB		Best R _w -value 42 dB		Best R _w -value 34 dB		Best R _w -value 39 dB		Best R _w -value 42 dB	

^{***)} The design for U_{o} 0.8 allows for 41 dB.

1.2 (1.20) 1.2 (1.19)		1.2 (1.20) 1.2 (1.17)
Best R _w -value 42 dB		Best R _w -value 42 dB
0.91 0.90		0.92 0.90
Best R _w -value 32***) dB		Best R _w -value 32*** dB
0.84 0.83	0.82 0.79	0.82 0.78
	Best R _W -value 45 dB	Best R _W -value 45 dB
0.78 0.76	0.75 0.72	0.78 0.76 0.75 0.72
Best R _w -value 40 dB	Best R _W -value 45 dB	Best R _w -value 40 dB Best R _w -value 45 dB

****) The design for U_o 0.7 allows for 41 dB.

0.91	0.90	0 0.88	0.86	0.93	0.90	0.89	0.85
Best R	v-value 36 dB	Best R _w -va	alue 45 dB	Best R _w -v	alue 36 dB	Best R _w -va	alue 45 dB
0.84	0.83	3 0.82	0.79	0.86	0.83	0.82	0.78
Best R _w -value 40****) dB		dB Best R _w -va	lue 45 dB	Best Rw-valu	ie 40****) dB	Best Rw-va	alue 45 dB

WHAT OUR VALUES TELL YOU.

THERMAL INSULATION (U-VALUES).

The better the thermal insulation your windows offer, the less energy is emitted to the outside. This is measured with the so-called U-value, the thermal transmission coefficient. The lower this coefficient is, the better are your window's insulation characteristics.

For you, the really significant value is the one showing you the window's overall performance. This value is the Uw-value. It is composed of several partial values: the U_o-value which solely refers to the glass, the U_f-value for the frame and the PSI-value for the glass edge.

By the way: All compound windows have a Uw-value of roughly 3.0 W/m²K and windows with insulation glazing achieve between 2.8 and 3.0 W/m²K. GAULHOFER's energy saver ENERGYLINE PLUS achieves 0.59 W/m2K.

Uw-value: thermal insulation value of the entire window ("w" for "window") U_o-value: thermal insulation value of the glass ("g" for "glass") U_f-value: thermal insulation value of the frame ("f" for "frame")

NOISE INSULATION (R-VALUES).

A window's noise insulation characteristics are determined by measuring the difference between the sound level inside and the one outside and is expressed in dB (decibel). If, for example, a car passes in front of your window and emits 100 dB of sound and you only hear 65 dB, your window has a sound insulation value R_W of 35 dB. The higher a window's R_w-value, the better its noise insulation.

By the way: Noise insulation windows score points with the thickness of the glass. Thanks to GAULHOFER windows' generous construction depth, we are able to offer perfect noise insulation for practically all elements without making compromises in terms of thermal insulation.

ADDED VALUES.

Incoming radiation is measured by the level of solar energy present outside and expressed in the g-value. The higher a window's transmittance in %, the more energy you can bring into your house through the windows. The optical transmittance value T_L shows how many percent of the light energy present in the house's proximity can pass to

the interior. The higher the T₁-value, the brighter the inside of your house.

By the way: GAULHOFER offers the same level of sunlight protection as solar glasses. You can choose to increase or lower the g – and T_I-values to suit your personal needs.

YOUR ADVANTAGE IS IN THE DETAILS.

WET SEALING.

Window life insurance - take one. For wood and wood-aluminum windows.

The sophisticated manually pressed and hand-smoothed wet-sealing made from UV-resistant GAULHOFER silicone keeps the glass connection tightly and permanently sealed. At GAULHOFER, this invisible window 'life insurance' - unlike conventional dry glazing - safely and sustainably prevents damp from getting into the wood.

DAMPESTOP®.

Window life insurance - take two. For wood and wood-aluminum windows.

The sophisticated, durable sealing of the glazing bead to the sash is an exclusive GAULHOFER innovation: the Dampfstop® prevents damp ambient air (water vapour) from getting into the glass fold from the humid indoor climate. An invisible yet indispensable construction detail: the glass system remains dry and the sash wood, beautiful. You will first notice this life insurance for glass, frame and surface coating when you realise you haven't noticed any impairments after years.



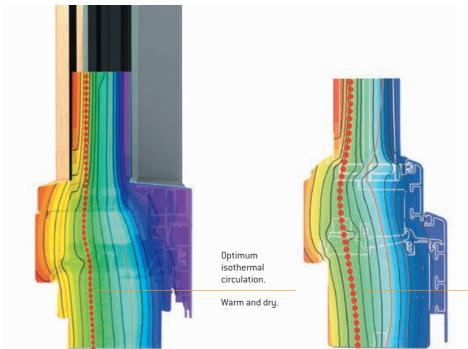
With Dampfstop® Without Dampfstop®.

AUDIOSTOP®. The accurately placed triple seal that really works. For all GAULHOFER windows.

The sophisticated GAULHOFER Audiostop® keeps noise, cold, wind and rain outside, thanks to three circumferential seals. The central seal is perfectly positioned with regard to the 10-degree isothermal curve so that the cold outdoor climate is efficiently separated from the warm and humid indoor climate. This prevents the pesky formation of condensation in the rebate area. Another plus point for your window's excellent insulation.

Conventional isothermal circulation

Cold and moisture



42 TECHNOLOGY TECHNOLOGY 43

UNINVITED **GUESTS HAVE TO** STAY OUTSIDE.

WITH OUR INSECT SCREENS.





REMOVABLE FRAMES

Safe and easy to handle, and can usually be installed without drilling. Can be used almost anywhere, robust and unobtrusive.



HINGED FRAMES

Swings open easily both inwards or outwards. Durable and suitable for small spaces.



SWING DOORS

Easy and convenient even when both hands are full. Swings open easily in both directions. Automatic closing, quiet and robust.



SLIDING

Sturdy, ideal for large apertures, allow multi-leaf systems to slide to one side, low installation depth makes them very versatile.



IG ROLLER BLIND

Insect protection: only when it's needed. Modern design, durable function.



GAULHOFER'S RANGE OF DOORS.

GAULHOFER's selection of doors convinces with continuous design quality in wood and wood-aluminum. You can choose between three stylistically different groups of models featuring deliberately modern or more traditional designs. The classy models of the "STYLE" group provide a very special welcome and stand out with their elegance created by glass flush-mounted on the enamelled door leaf. All new models are available in spruce, larch and oak.

The high-quality constructions exhibit prime insulation properties as every model can achieve passive house standards — both in wood and wood-aluminum finish. Equipped with high-end security elements, GAULHOFER doors guarantee first-rate protection against uninvited guests. Thanks to the wide range of available handles, glasses and colors, no wish remains unfulfilled. Thus, you can choose and design your own individual entrance door, providing a welcome that fits your personality

ENTRANGE DOORS

THE BEST MATERIALS – GUARANTEED.

GAULHOFER doors impress with know-how and premium workmanship. They are durable and long-lasting and available in wood and wood-aluminum. Every wooden model is also available in wood-aluminum and vice-versa.

WOOD



fig. Model G-H104 (W00D)



fig. Model G-H110 (W00D)

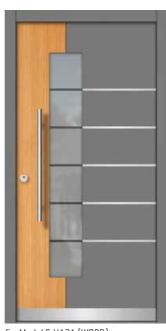


fig. Model G-H121 (W00D)

THE MOST BEAUTIFUL DESIGN — HIGHLY LIKELY.

To each their own! With the design lines DESIGN, STYLE and KLASSIK, GAULHOFER offers a well-sorted range of attractive configurations. Surely the best choice for every taste – and every building.



fig. Model G-H(A)101 (DESIGN)



fig. Model G-H(A)207 (STYLE)



fig. Model G-H(A)306V (KLASSIK)

DESIGN



STYLE



fig. Model G-H(A)202 (STYLE)

KLASSIK



ing. Model 6-H(A)307 (KLASSIK)



fig. Model G-HA104 (W00D-ALUMINUM)



fig. Model G-HA114 (WOOD-ALUMINUM)



fig. Model G-HA122 (WOOD-ALUMINUM)

WOOD-ALUMINUM

THE MOST BEAUTIFUL WOOD — NATURALLY.

GAULHOFER doors made from wood or wood-aluminum are purely natural! We use spruce, larch or oak felled in winter and sourced from sustainable forestry. As standard, the surface is veneered vertically and optionally cross-veneered. Larch and oak also come in oiled knotty and brushed finish.



fig. Standard: vertically veneered spruce



fig. Cross-veneered larch



fig. Vertically veneered knotty oak

THE MOST BEAUTIFUL TRIVIALITY IN THE **V**

With their unpretentious designs, the new GAULHOFER side entrance doors are visually restrained and protect secondary and side entrances from uninvited guests. Manufactured with utmost precision, all models are available in wood and wood-aluminum (spruce and larch), in inward-opening and outward-opening type. Including full front door ground sill and triple locking mechanism.

WOOD



fig. Model NET-H01 (W00D)



fig. Model NET-H04 (W00D)



fig. Model NET-H06 (W00D)

ABSOLUTELY SAFE AND MORE!

The new GAULHOFER wood and wood-aluminum doors are three times as good: On request, they are available with security class RC1 to RC3. Their first-class thermal insulation characteristics can be upgraded to reach low energy or passive house standards. And when it comes to design, the (optional) flush style scores points with its obscured fittings.



fig. Model G-H(A)108



fig. Model G-H(A)131



fig. Interior view





fig. Model NET-HA02 (WOOD-ALUMINUM)

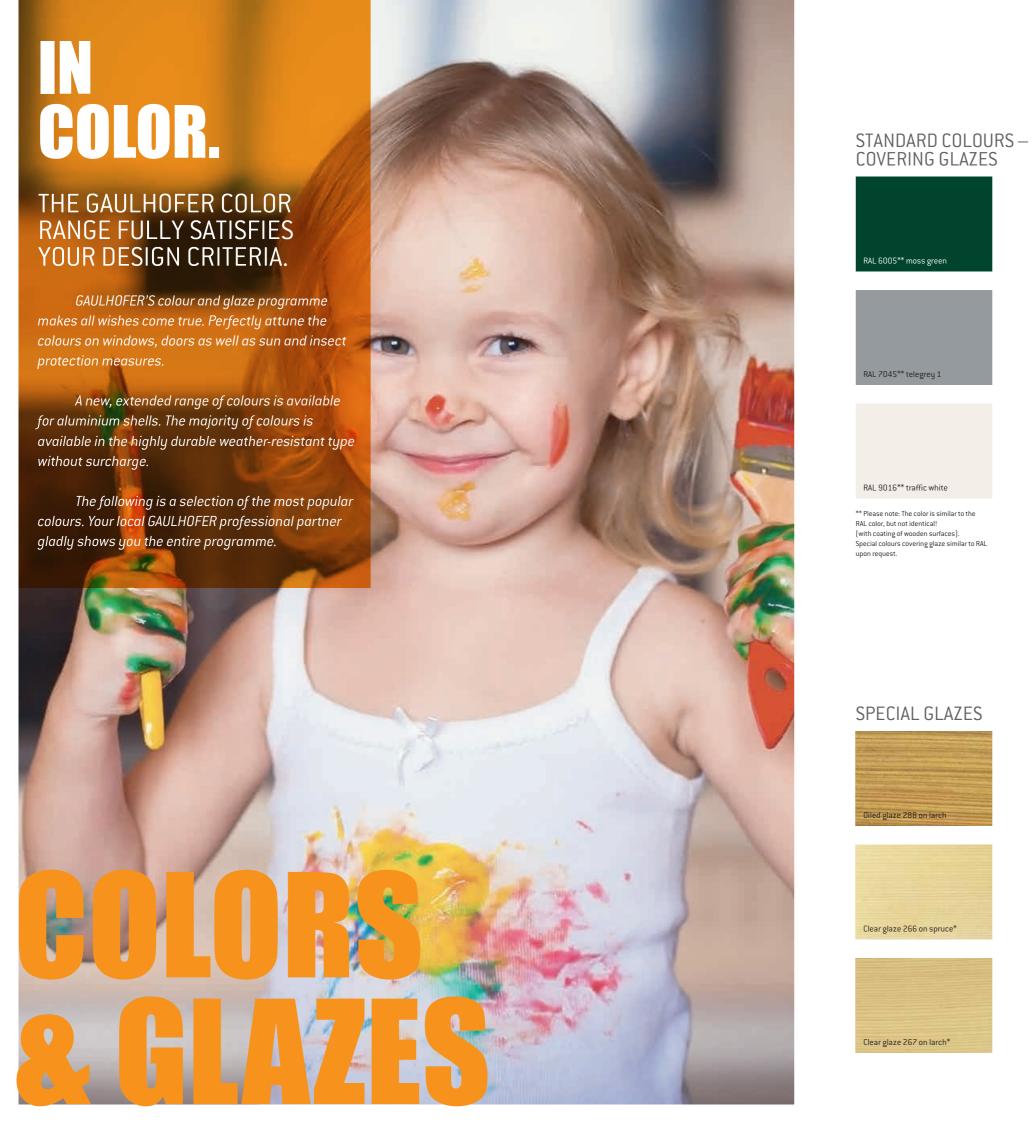
WOOD-ALUMINUM



fig. Model NET-HA03 (WOOD-ALUMINUM)



50 ENTRANCE DOORS ENTRANCE DOORS 51



STANDARDCOLOURS-GLAZES





















* only for wood/aluminum.











SPECIAL GLAZES

RAL 6005** moss green

RAL 7045** telegrey 1

RAL 9016** traffic white

RAL color, but not identical!

** Please note: The color is similar to the

(with coating of wooden surfaces).
Special colours covering glaze similar to RAL





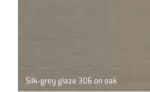












The displayed color samples may slightly deviate from the color characteristics in reality.

ALUMINIUM-RAL TOPSELECT

RAL 6005m Matt Moss Green







All colours in the ALU-RAL TOPSELECT category are also available in fine-structure highly weather-resistant finish at no surcharge.

Other RAL colours in matt and glossy finish are available upon request.

ALUMINUM METALLIC-COLORS













ENERGYLINE

UPVC FOIL COLOURS









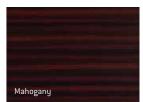


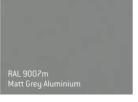










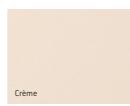


Anodised colour similar to matt

ERGOLINE

UPVC FOIL COLOURS









Brilliant White



Old White







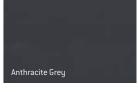








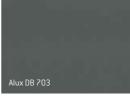










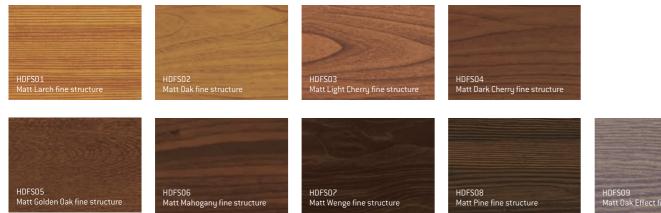




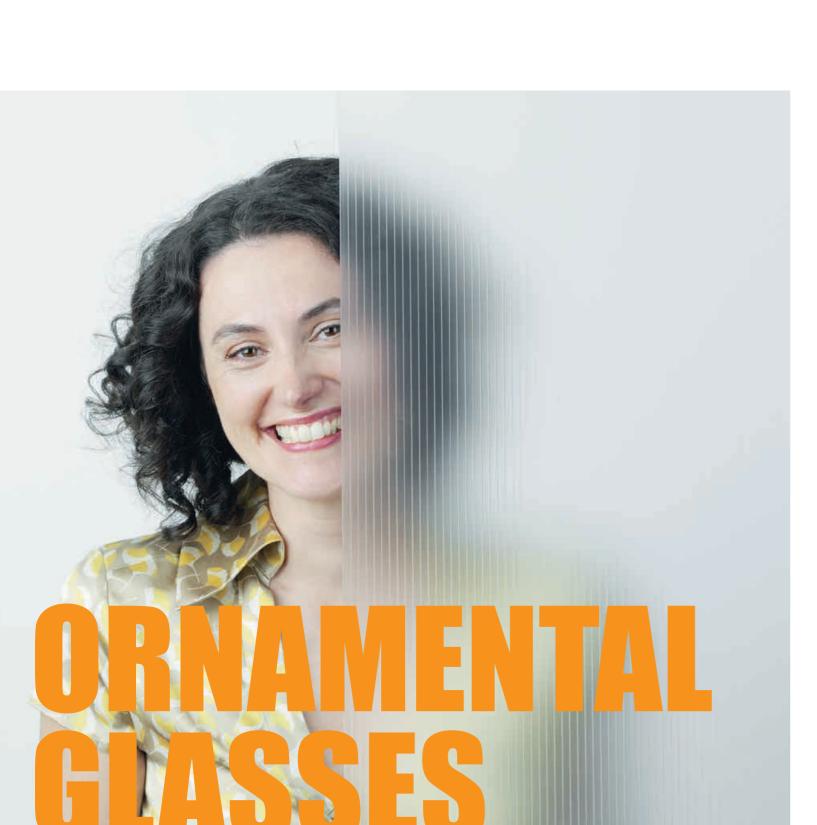


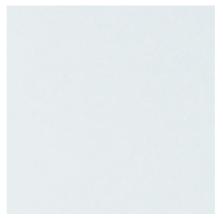


ALUMINUM WOOD-DECORS



54 COLORS & VARNISHES COLORS & VARNISHES 55





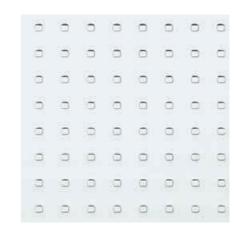
Satinato, white



Pave, white



Cathedral obscure, white



Master Carré, white



Ornament 504, white



Chinchilla, white



Rough-cast glass, white



Linea, white



Uadi, white



Old-German K, white

Ornament 523, white ORNAMENTALGLASSES **57**

SEPARATE VIEWS.

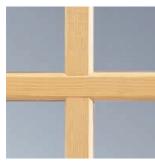
GIVE YOUR WINDOW A DISTINCT FACE.



Wood A-bar, 25 mm, fitted onto the glass



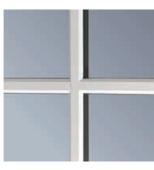
Wood A-bar, 38 mm, fitted onto the glass



Wood GT-bar, 78/94/111/115/132 mm, separates the glass into individual fields



uPVC A-bar, 26 mm, fitted onto the glass



uPVC A-bar, 36 mm, fitted onto the glass



uPVC GT bar, 70/84/104* mm, separates the glass into individual fields



M-bar, 8 mm, in the gap between the insulation glass panes



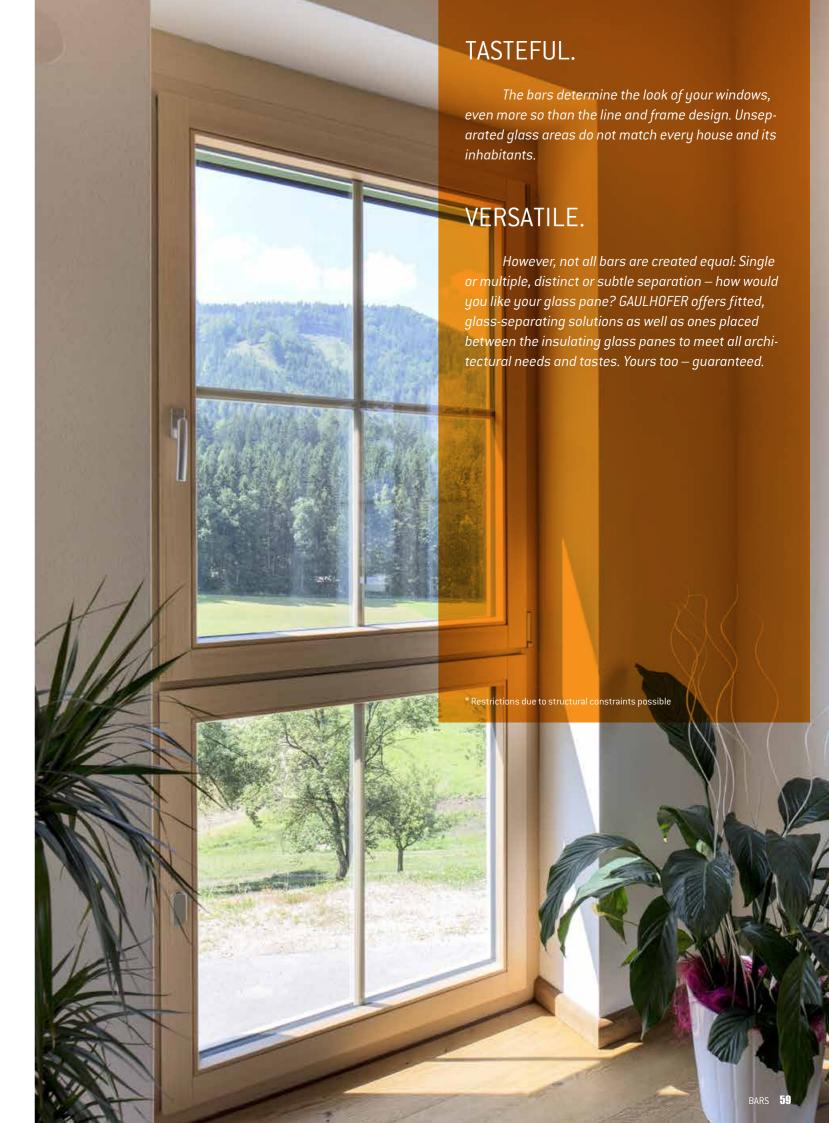
Metal
M-bar, 18 mm,
in the gap between the insulation glass panes



Metal
M-bar, 26 mm,
in the gap between the insulation glass panes



Metal
M-bar, 45 mm,
in the gap between the insulation glass panes





A = gluedon bars

M = metallic bars between glas pains

GT = glass devidining bars



QUALITY HAS BEEN GAULHOFER'S DNA FOR ALMOST 100 YEARS.

GAULHOFER has been making windows for almost 100 years. The company was founded by Karl Gaulhofer in 1919. Industrial window production started in 1963 when GAULHOFER entered the manufacture of so-called standard windows.

The first natural wood windows came onto the market in the 1970s, made by GAULHOFER.

Soon afterwards, in 1978, the company started building a distribution network in Germany. Today, GAULHOFER quality is exported as far away as Russia and Canada. In order to be able to directly serve the market for uPVC windows, too, Gaulhofer opened its production facility in Mäder (province of Vorarlberg) in 1987.

In the mid-1990s, GAULHOFER was the first to offer wood-aluminum windows for private customers. Since 2000, GAULHOFER ranks among the largest window manufacturers in Europe.

In 2005, GAULHOFER transferred the advantages of bonding technology used in the automotive and aerospace industry to its window production.

In 2011, GAULHOFER presented VISIONLINE: a novel frame-less all-glass system that properly insulates and seals.

Until 2013, GAULHOFER renewed the entire collection in wood, wood-aluminum, uPVC and uPVC-aluminum.

At the turn of the year 2014, GAULHOFER introduced INLINE – a new generation of windows that are flush on the inside and outside as well as matured when it comes to building physics.

2015 saw the introduction of GAULHOFER ERGOLINE, the slim energy-saver for slim budgets. Additionally, GAULHOFER presented a comprehensive range of front doors, offering doors for every house, guaranteed.

SUSTAIN-ABLE.

Know-how in window manufacturing specific to the Alpine regions and the notion of sustainability are both at home at GAULHOFER. This notion and its responsibility for nature and environment are central to GAULHOFER's economic activities. Energy efficiency and responsible use of resources – for instance through closed utilisation cycles – are being put into practice in all areas at GAULHOFER: from materials to production to product quality.

PROFESSIONAL PARTNER.

THE FINEST CONSULTATION AND SERVICE QUALITY NEAR YOU.

You don't buy new windows every day. To keep it that way, GAULHOFER is continually improving the quality and durability of each and every one of its products. Futhermore GAULHOFER perfects its sales service too, because comprehensive individual advice and information before buying windows or doors is crucial for the success of your project.

A service package fine-tuned to your needs and ideas by your local GAULHOFER specialist will save you time, money and effort. He also knows everything there is to know about subsidy options, e.g. for thermal renovation.

GAULHOFER guarantees on-site service and competent advice through a dense network of partners. Clear, straightforward sales, rapid, neat and clean installation as well as professional service and after-sales service are a matter of course for GAULHOFER professional partners.





GAULHOFER WINDOWS AND ENTRANCE DOORS...

... ARE THE BEST HEATING COST SAVERS.

GAULHOFER is the number one when it comes to thermal insulation. All GAULHOFER product lines achieve passive house levels — and often even better values. This means: more cosiness and lower heating cost.

... ARE BEAUTIFUL AND STILL INSULATE BETTER.

Lots of glass, less frame. Usually, this combination must be bought with lower thermal insulation and living comfort. Not at GAULHOFER: Designer windows such as GAULHOFER INLINE are also available for passive houses.

... ARE LONG-LASTING QUALITY PRODUCTS.

GAULHOFER is a byword for world-renowned highend products whose production incorporates many, often manual measures ensuring lasting quality. GAULHOFER windows and front doors last longer.

... COME FROM A SUSTAINABLE PRODUCTION.

Thanks to closed recycling circuits, the predominant use of domestic timber sourced from sustainable forestry as well as in-house heat production,

GAULHOFER customers can rest assured: it's a good feeling to live with GAULHOFER windows.

... REPRESENT QUALITY FROM AUSTRIA.

As a long-standing Austrian company, we know how to build windows for eternity and pass our experience on from generation to generation. That's why, for almost 100 years, the name GAULHOFER has been a byword for Austrian know-how in window construction that is in high demand throughout the world.

... ARE AVAILABLE WITH PROFESSIONAL INSTALLATION ONLY.

With its tightly knit dealer network, GAULHOFER offers you competent support on location. Your GAULHOFER partner creates a customised offer, takes care of competent and clean installation and, afterwards, provides help and advice. GAULHOFER is a quality brand and guarantees best service — before and after the purchase.



GAULHOFER ADDRESSES AT A GLANCE.















A WINDOW FOR A LIFETIME.



