



**WINDOWS WELL THOUGHT**  
PVC RANGE OF PRODUCTS

  
**WITRAZ**



# PERFECT INSULATION

## Safe for years.

Guaranteed  $U_w$  below  $0,79\text{W/m}^2\text{K}$   
for reference window – the lower, the warmer!



100%  
safety



100%  
quiet



100%  
warmth



100%  
quality



100%  
design

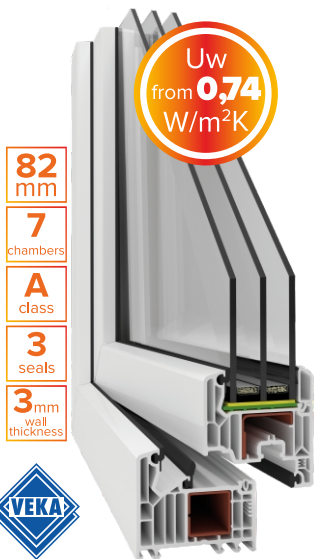
Choose windows with the best possible performance on the market. Designed for very demanding, modern single-family housing.

### Our passive windows ensure:

- ✓ thicker profile sections with more chambers,
- ✓ solid triple glazing,
- ✓ consistent low thermal permeability.

Significant noise reduction and reduction of heat loss up to 30%.

## V82 POWERTHERM +



### ✓ Seven-chambers A class profile

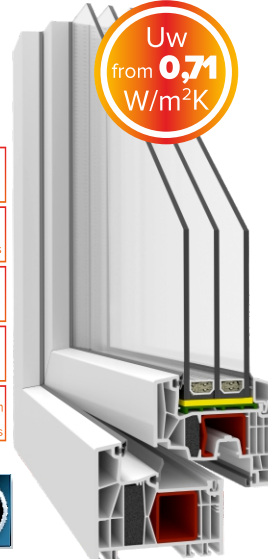
Our best of the best passive windows, designed for demanding, modern single-family housing.

### ✓ Perfect parameters

An additional 3<sup>rd</sup> seal ensures an exceptionally low heat transfer coefficient. That all enclosed in a well designed, classic profile.

### ✓ Extra accessories

without any additional payment. Warm Swisspacer and Maco Soul handle with lock of the faulty position.



## KÖMMERLING 88

### ✓ The 88 premium window system.

The seven-chamber system with a depth of 88 mm with a central gasket offers passive windows as standard.

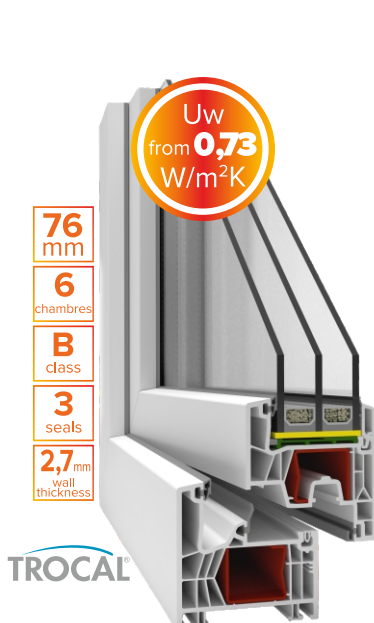
### ✓ Extras included.

Insulating wedge, warm edge spacer, triple-glazed unit, modern handle and a lot of veneer variants to choose from.

### ✓ Wide glazing options.

The modern design allows for the placement of glazing units up to 56 mm with the possibility of embedding a triple-glazed unit or special functional glazing.

## PK76 INNOVO +



### ✓ Six-chambers Class B system

An elegant, classic profile with a depth of 76 mm.

### ✓ The highest quality guarantee

Additional 3<sup>rd</sup> seal and the best parameters of thermal insulation.  $U_w$  for the reference window reaches the value of  $0,73\text{W/m}^2\text{K}$ .

### ✓ One system.

**Many advantages**  
Modern quality through functionality, statics, appearance, thermal and acoustic insulation coefficients.



## WITRAŽ HS82

### ✓ Hidden gaskets

Protection against draft, dust and rain.

### ✓ Compatibility

It does not take up space inside and allows you to enjoy the light of day.

### ✓ Optionality

The low threshold does not satisfy you? We like challenges. We will use a high threshold especially for you.

# CLASSICALLY FOR EVERYONE

## Classic does not mean boring.

Create a beautiful space where you feel safe.



100%  
safety



75%  
quiet



85%  
warmth



100%  
quality



80%  
design

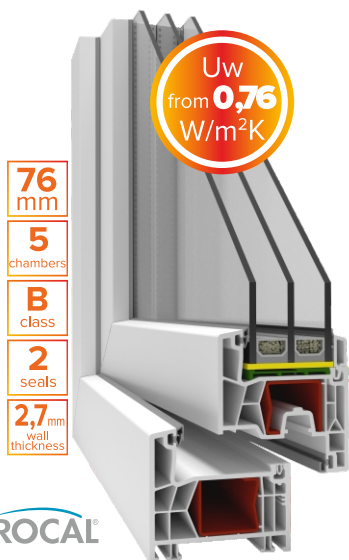
Windows resistant to changing climatic conditions, and extremely easy to clean.

### Our windows provide:

- ✓ very good thermal insulation,
- ✓ home security,
- ✓ universal design.

The optimal choice for many years.

## PK76 INNOVO



### ✓ A five-chamber class B system

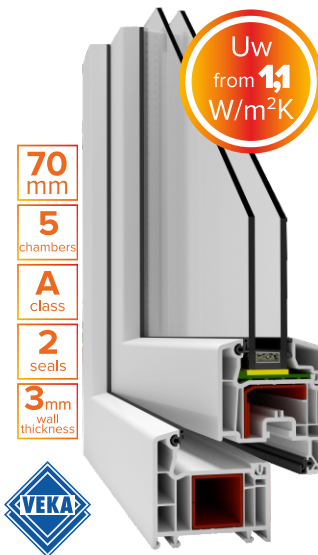
An elegant, classic profile with a depth of 76 mm.

### ✓ Protection

Thanks to the perfect acoustic insulation, the house is much quieter, and the installation of anti-burglary systems increases safety.

### ✓ A wide range of colors

In addition to white, we offer a wide range of veneer colors.



## V70 PERFECTLINE

### ✓ Class A quality

The five-chamber profile 70 mm, colored for the veneer color provides an aesthetic look of the frame after many years of use.

### ✓ Good form

Thick walls of the profiles provide excellent window statics, even with daily temperature fluctuations from -2 to 16°C.

### ✓ Guarantee of security

Robust Maco Multimatic fittings ensure safety.

## PN70 BALANCE



### ✓ For a changing climate

The basic and universal version of the profile with a depth of 70 mm.

### ✓ Excellent tightness

Modern gaskets perfectly protect against draft, dust and rain.

### ✓ Easy care

The outer surface is extremely resistant to changing weather conditions.

### New!

It is possible to use a triple-glazing with a width of 42 mm. Then Uw can be even 0,79 W/m²K.



## PREMISLIDE 76+

### ✓ Large and small sliding structures.

The minimum leaf size is only 52 x 61 cm.

### ✓ High tightness.



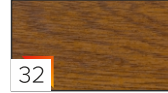

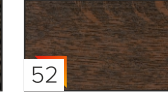




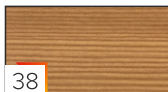

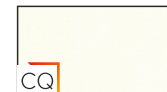










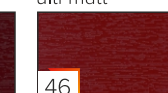
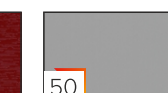

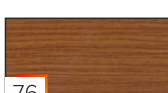

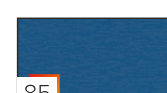


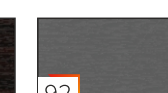



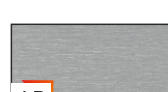
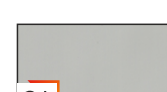
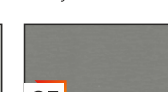
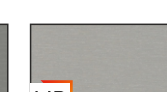


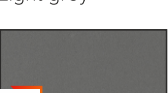
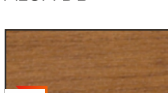
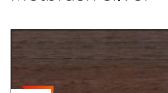
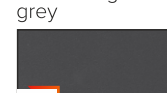
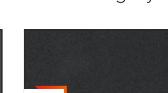

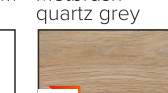
Thanks to properly matched sash gaskets, which are pressed against the frame along the entire perimeter, PremiSlide 76+ achieves very good parameters in terms of air permeability, water tightness and resistance to wind pressure.

### ✓ Optional SOFT CLOSE.

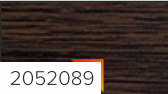
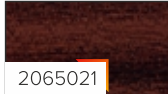
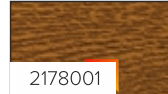
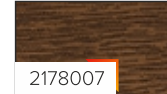
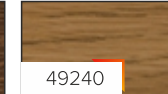
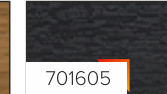
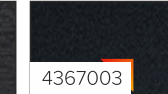
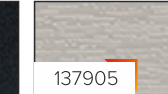
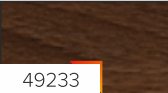
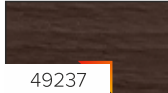
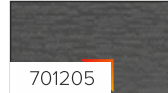
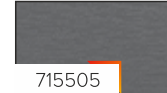
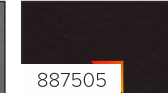
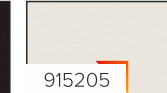
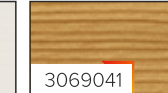
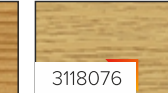
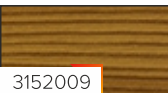
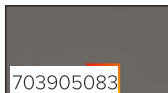
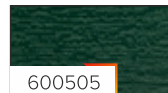
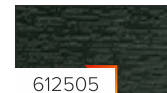
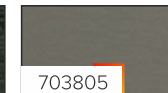
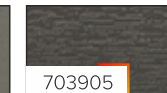
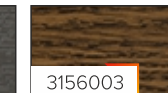
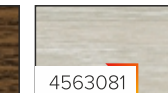
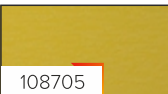
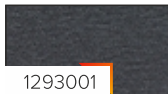
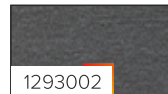
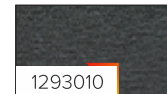
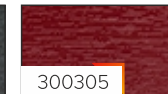
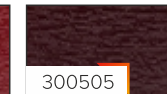

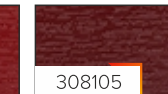
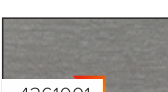
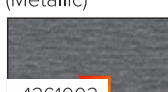
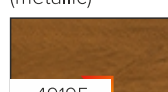
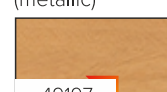
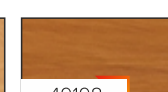
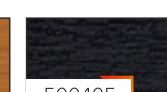
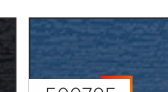
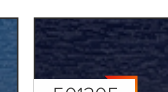
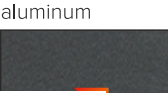
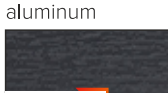
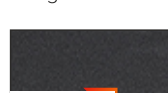
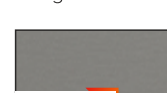
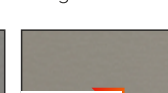



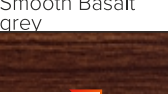
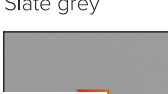
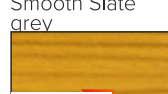
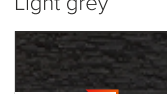
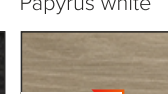
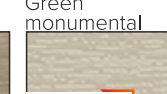
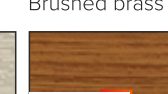
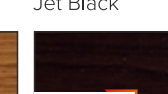



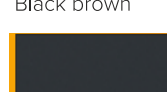


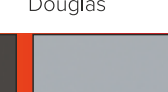

It is a completely hidden mechanism that slows down the sash movement in the final phase of closing.

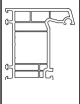
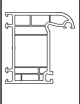
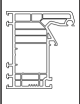
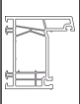
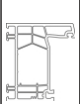
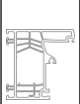
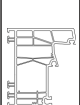
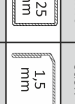

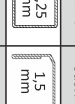
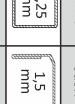

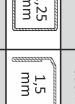
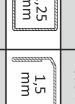

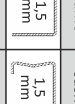
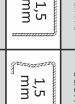
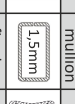
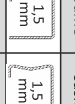
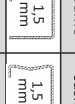

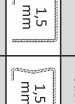
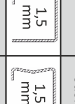

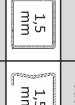
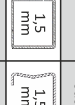


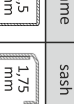
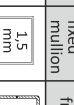
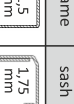
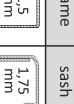

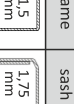
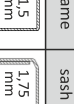

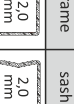
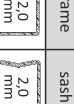











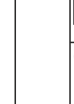

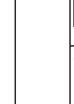
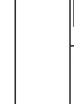

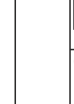
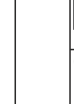



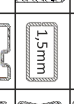


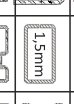


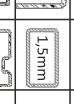















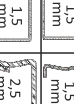
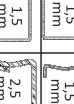



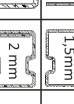




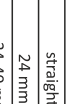

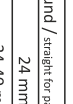
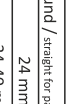
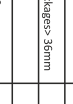
















# TROCAL

# COLOR PALETTE

 16 Anthracite grey	 24 Sapeli	 32 Golden Oak	 34 Dark oak	 52 Walnut	 AG Smooth Anthracite grey	 WI Winchester XA	 21 Grey
 27 Chocolate brown	 38 Mountain pine	 53 Moss green	 CQ Cream white	 GD Quartz grey	 IO Irish Oak	 UD Anthrazite grey ultra matt	 US Black ultra matt
 15 Dark oak	 31 Brown maroon	 37 Oak rustique	 39 Oregon 4	 42 Macore	 44 Wine red	 46 Dark red	 50 Smooth Signal grey
 58 Dark green	 76 Streaked douglas	 80 Black brown	 85 Brilliant blue	 88 Navy blue	 90 Black Cherry	 92 Basalt grey	 93 Agate grey
 94 Light grey	 AL ALUX DB	 AR Metbrush silver	 GA Smooth Agate grey	 GE Concrete grey	 MP Metbrush platinum	 MQ Metbrush quartz grey	 MT Metbrush anthracite grey
 QB Quartz grey SFTN mat	 RC Rustic cherry	 SC Siena PR	 SG Schiefergrau glatt	 SM Black grey SFTN mat	 WX White	 TO Turner Oak matt <small>(only in KÖMMERLING 88)</small>	

# VEKA

 2052089 Dark oak	 2065021 Mahogany	 2178001 Golden Oak	 2178007 Walnut	 49240 Winchester XA	 701605 Antracite grey	 4367003 Dark gray silk	 137905 Cream white
 49233 Siena PR rosso	 49237 Siena PN noce	 701205 Basalt grey	 715505 Silver gray	 887505 Brown	 915205 White	 3069041 Mountain pine	 3118076 Light oak
 3152009 Streaked douglas	 703905083 Smooth Quartz grey	 600505 Green	 612505 Dark green	 703805 Agate grey	 703905 Quartz grey	 3156003 Oak rustique	 4563081 Sheffield Oak light
 108705 Yellow	 1293001 Crown Platin (Metallic)	 1293002 Quarz Platin (metallic)	 1293010 Earl Platin (metallic)	 300305 Ruby red	 300505 Wine red	 305405 Carmine red	 308105 Dark red
 4361001 Metbrush aluminum	 4361002 Metbrush silver aluminum	 49195 Shogun AD	 49197 Shogun AC	 49198 Shogun AF	 500405 Monumental blue	 500705 Brilliant blue	 501305 Cobalt blue
 701205083 Smooth Basalt grey	 701505 Slate grey	 701505083 Smooth Slate grey	 725105 Light grey	 901805 Papyrus white	 992505 Green monumental	 4361007 Brushed brass	 4467062 Jet Black
 3162002 Macore	 715505083 Silver-gray smooth	 2115008 Oregon III	 851805 Black brown	 4363086 Sheffield Oak Grey	 101505 Ivory	 3069037 Douglas	 3202002 Rosewood
 4361014 Alux DB	 4361016 Alux Aluminum grey	 515005 Navy blue	 701605001 Anthracite ultra-matt	 901100001 Graphite black ultra-matt	 800400001 Umbra ultra-matt	 704000001 Platinum gray ultra-matt	 915205001 Veka-white ultra-matt

PROFILE	V70 PERFECTLINE	V70 SWINGLINE	V82 POWERTHERM+	PN70 BALANCE	PK76 INNOVO	PK76 INNOVO+	KÖMMERLING 88
profile class	A	A	A	B	B	B	B
number of chambers in the frame	 5	 5	 7	 5	 5	 6	 7
installation depth	70 mm	70 mm	82 mm	70 mm	76 mm	76 mm	88 mm
thickness of the profile walls	3 mm	3 mm	3 mm	2.7 mm	2.7 mm	2.7 mm	2.7 mm
number of seals on the perimeter	2	2	3	2	2	3	3
type of seals in the profiles	EDPM	EDPM	EDPM	EDPM	EDPM	EDPM	EDPM
color of the seal in white windows	black	black	black	grey	grey	grey	grey
Uf value for the reference window 1.23m x 1.48m from	1.1 W/m <sup>2</sup> K	1.1 W/m <sup>2</sup> K	0.74 W/m <sup>2</sup> K	0.79 W/m <sup>2</sup> K	0.76 W/m <sup>2</sup> K	0.73 W/m <sup>2</sup> K	0.71 W/m <sup>2</sup> K
Uf value from	≥ 1,4	≥ 1,4	≥ 1	≥ 1,2	≥ 1,1	≥ 1	≥ 0,93
<b>steel standard</b>	frame sash	frame sash	frame sash	frame sash	frame sash	frame sash	frame sash
variant I.	  	  	  	  	  	  	  
<b>reinforced steel:</b>	frame	frame	frame	frame	frame	frame	frame
variant II.	  	  	  	  	  	  	  
variant III.	  	  	  	  	  	  	  
variant IV.	  	  	  	  	  	  	  
variant V.	  	  	  	  	  	  	  
glazing bead (standard glazing package)	straight	round / straight for packages > 36mm	straight	straight	straight	straight	straight
type of glazing package	24 mm	24 mm	48 mm	24 mm	48 mm	48 mm	48 mm
possibility of inserting a glazing package	24-40 mm	24-40 mm	24-48 mm	24-42 mm	24-48 mm	24-48 mm	44-56 mm
spacer frame	aluminium	aluminium	warm TGI	aluminium	aluminium	aluminium	warm TGI
resistance to wind loads - frame deflection	C2/B4	C2/B4	C2/B2	C5/B5 for single-sash windows C3/B3 for multi-sash windows C1/B2 for balcony multi-sash windows	C5/B5	C5/B5	C4/B5 for single-sash windows C1/B2 for windows with flying mullion
water resistance	5A	5A	9A	9A	9A	9A	9A
air permeability	4	4	4	4	4	4	4
anti-theft catches / 1 sash	1	1	1	1	1	1	1
micro-ventilation in the tilt and turn sash	✓	✓	✓	✓	✓	✓	✓
incorrect tilting lock	✓	✓	✓	✓	✓	✓	✓
seal of the catch-notch in the frame	✓	✓	✓	✓	✓	✓	✓
handle	standard aluminium	standard aluminium	Square	standard aluminium	standard aluminium	standard aluminium	Hoppe Secustic
multi-chamber windowsill strip	✓	✓	✓	✓	✓	✓	✓
transport handles	✓	✓	✓	✓	✓	✓	✓
warranty period for rectangular windows	5 years (applies to fixed windows or with multi-point locking fittings in the form of tilt and turn, turn or tilt)						
<b>Possibility of manufacturing:</b>							
patio door option	✓	✗	✓	✓	✓	✓	✓
external door option	✓	✗	✓	✓	✓	✓	✓
option of a window with a window sash with a 2-sided handle and the PZ35 lock	✓	✗	✓	✗	✓	✗	✗
option of a window with an intermediate sash, a 2-sided handle and a PZ35 lock	✓	✗	✓	✗	✓	✗	✗
PSK tilt and slide window option	✓	✓	✓	✓	✓	✓	✓
HS lift and slide window option	✓	✗	✓	✗	✓	✓	✗

Legend: ✓ - option available; ✗ - option not available

# WITRAŻ FAMILY BUSINESS



WITRAŻ is a family-owned company existing on the market since 1999, boasting the largest PVC producer in the north-eastern region of Poland. We are one of the few companies in the country producing three materials - PVC, wood and aluminum.

We have the latest technological solutions, the most automated production line, allowing for the production of 250,000 PVC windows per year. Nevertheless, we do not mass produce windows. We approach each order very individually, we take care of every detail, at every stage of implementation. From comprehensive advisory services, through specialized production on the most advanced production line, to meticulous control and safe preparation for transport. We are characterized by an excellent design oriented on changing conditions throughout Europe.

We want to show every client that the window can not only be of high quality, but above all functional and simply beautiful.

# PVC ALUMINIUM WOOD-ALU WOOD

## We export to:

Germany ▪ Italy ▪ Lithuania ▪ USA ▪ Scandinavia ▪ Morocco  
Switzerland ▪ Latvia ▪ Norway ▪ France ▪ Israel ▪ Sweden  
Belgium ▪ Estonia ▪ Austria ▪ Japan ▪ Hungary ▪ United ▪ Czech  
Kingdom Republic



  
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