



DETAILED SOLUTIONS WHICH CONVINC

25 good reasons for excellent quality from Internorm

CONTENT

DETAILED SOLUTIONS WHICH CONVINC

The big difference	4 5
Gaskets	6
Glazing bead, flying mullion version	7
Handles, spacers, rebate design	8
Hardware	9
Aluminium clad	10
Perfect details, aluminium coating	11
I-tec glazing	12
Timber/aluminium window	13
Timber/foam/aluminium compound	14
Impregnation, glazing	15
Materials of the highest quality	16

THE POWER OF THE BRAND

[1 st] in quality	17
100% Made in Austria	18

MANY YEARS OF KNOW-HOW

Quality control	19
Brand innovations	20 21
Certificates	22

COMPREHENSIVE WARRANTIES

Warranties	23
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Quality brochure.
25 GOOD REASONS
TO DECIDE FOR AN
INTERNORM WINDOW.

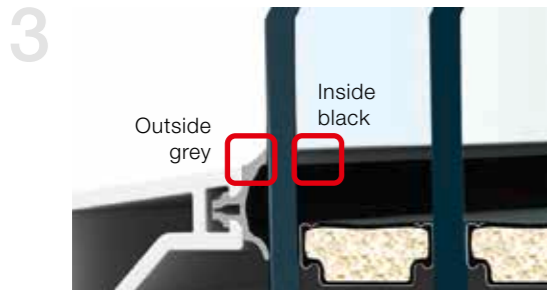
INTERNORM OUT OF PASSION – THE BIG DIFFERENCE LIES IN THE SMALL DETAILS



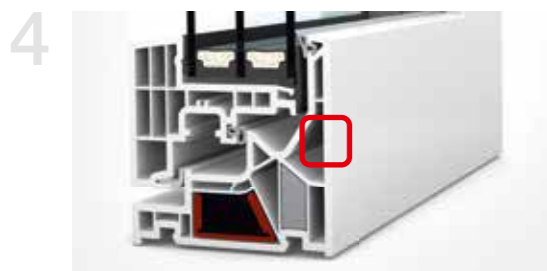
Three gaskets all around are available without surcharge and prevent water and sound entering in.



Long-lasting gaskets are manufactured of high-quality materials, depending on requirements. Black or light grey gaskets match the window colour perfectly.



Two-colour gaskets offer a clean and tidy appearance.



The wall thickness is essential: Profiles from our own production have an outer wall thickness of 3 mm. Therefore, Internorm is marked with the highest possible RAL-A certificate.



One glazing bead, which fits smoothly and inconspicuously into the window design with Internorm, ensures a discreet surface.



Our flying mullion with multi-sash windows covers the gap and offers symmetrical flowing lines.



The high-quality aluminium handle is available without surcharge and follows your chosen design.



Harmonic symmetries are important with Internorm. The lines create a nice and calm, symmetrical inside appearance.



All closing elements are manufactured from high-quality materials with Internorm. They are rounded at the edges to make cleaning easier.



Concealed hardware and the fixed point of rotation are fundamentally important for better functioning and therefore for higher loading capacity. Longevity thus becomes inclusive.

THREE GASKETS ALL AROUND

Your advantages:

- Improved thermal and sound insulation, therefore less air permeability
- High driving rain tightness – inside area protected from the wet



3 gaskets all around



2 gaskets

GLAZING BEAD

Your advantage:

- Each Internorm design style offers a harmonically formed glazing bead.



Glazing bead - harmonic and flush in the sash profile



Surface-offset obvious appearance

CENTRE GASKET ON SASH

Your advantages:

- Frame is easy to clean
- Longlasting gaskets on sash are protected from damage



Centre gasket with Internorm not on the frame but on the sash

Centre gaskets on the frame are constantly confronted with stress – no protection from damage and wear and tear.



Centre gasket glued to the frame profile

FLYING MULLION VERSION

Your advantages:

- Symmetrical layout of the flying mullion area for better appearance
- Covers the gapp between the sashes
- Narrower flying mullion area to let more light in



Harmonic symmetry



Asymmetric design of corners

ELEGANT SHAPES

Your advantages:

- Aluminium designer handle without surcharge for perfect haptics and functioning
- Black ISO spacers, discreet and inconspicuous



Aluminium designer handle

ISO spacers



UPVC handle

Spacer

INSIDE HARDWARE

Your advantage:

- Fixed point of rotation for less wear and tear and higher sash weights as well as a longer service life



Fixed point of rotation and fully surface supported hardware

If point of rotation is not fixed, much wear and tear occurs (dirt deposits).



Corner hinge not fixed flush in frame

REBATE DESIGN

Your advantages:

- Elegant shapes through rounded transitions of surfaces
- Rounded closing elements ensure easy and safe cleaning.



Rounded closing elements



Square-edged closing elements

HARDWARE

Your advantages:

- Concealed hardware without surcharge
- Perfect appearance as well as easy and safe cleaning
- No interruption of the inner stopper gasket



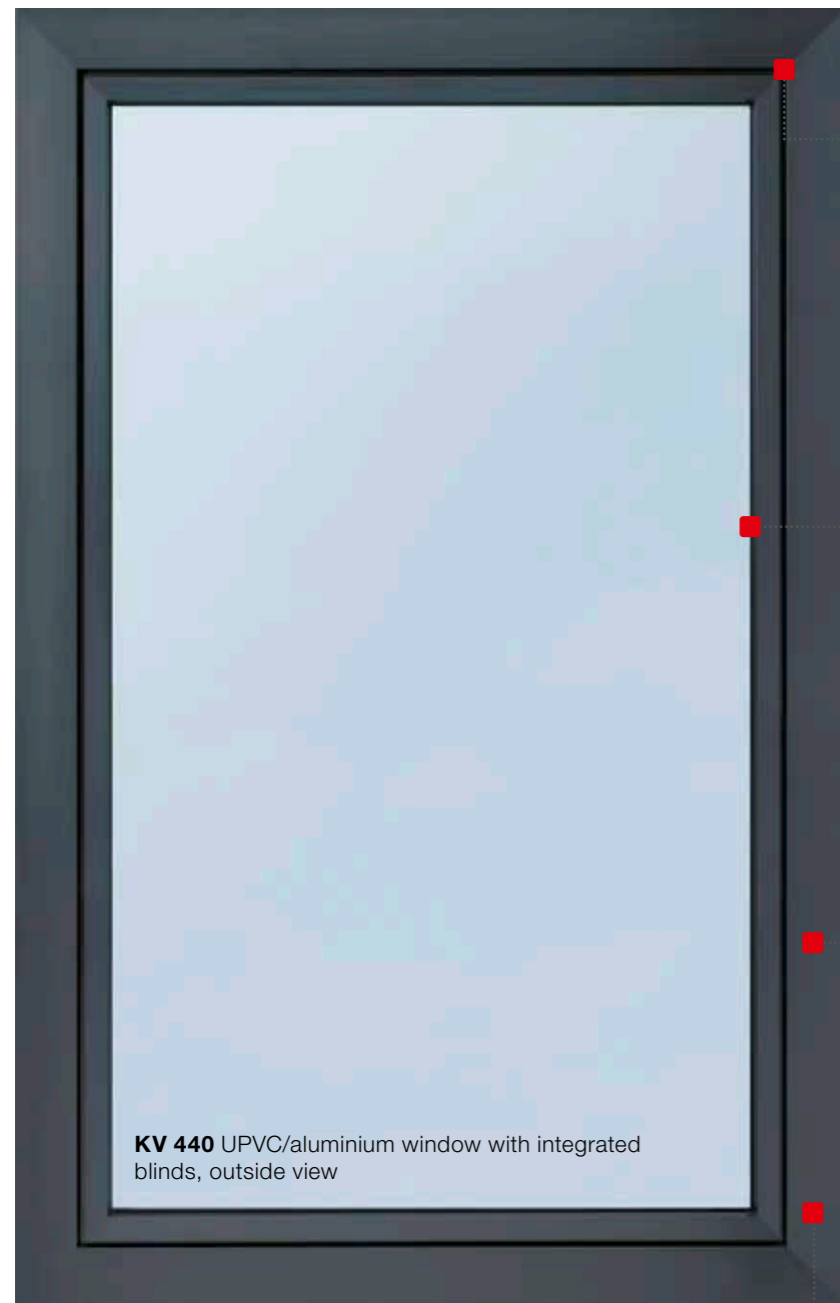
Minimalist appearance through concealed hardware

The stopper gasket is interrupted with exposed hardware – warm air can enter in and can cause condensation or icing up.



Exposed hardware parts

ALUMINIUM CLAD FROM INTERNORM FOR MANY YEARS OF PROTECTION



KV 440 UPVC/aluminium window with integrated blinds, outside view



11

Formation of the corners shows high-quality processing and perfection to the smallest detail.



12

Elegant spacers remain almost unnoticed through their plain design, but ensure optimum insulation.



13

Internorm's highly weather resistant aluminium coating maintains the colour of your windows even after years.



14

Large variety of colours – the aluminium clad offers a wide spectrum of colours. Also haptics effects are available, for example the imitation of timber structures.

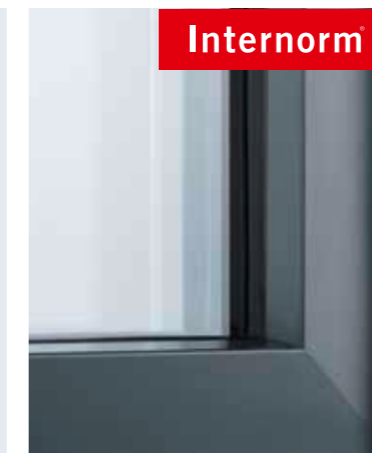
PERFECT DETAILS

Your advantages:

- The perfect corner design ensures a clean appearance and many years of protection of the window frame
- The black ISO spacers fits inconspicuously to the window design



Perfect corner design



ISO spacers



Offset corners



Noticeable spacer

ALUMINIUM COATING

Your advantages:

- The highly weather resistant aluminium coating ensures protection and longevity of window colours
- Timber/aluminium and UPVC/aluminium windows feature the highly weather resistant version without surcharge
- **10 years warranty** on weather fastness



Highly weather resistant in the test*: Even after about eight years of weather exposure you can hardly see a difference with Internorm compared to a new aluminium clad.



* Sample tested at the outdoor exposure rig of the company Piesslinger, Moln.

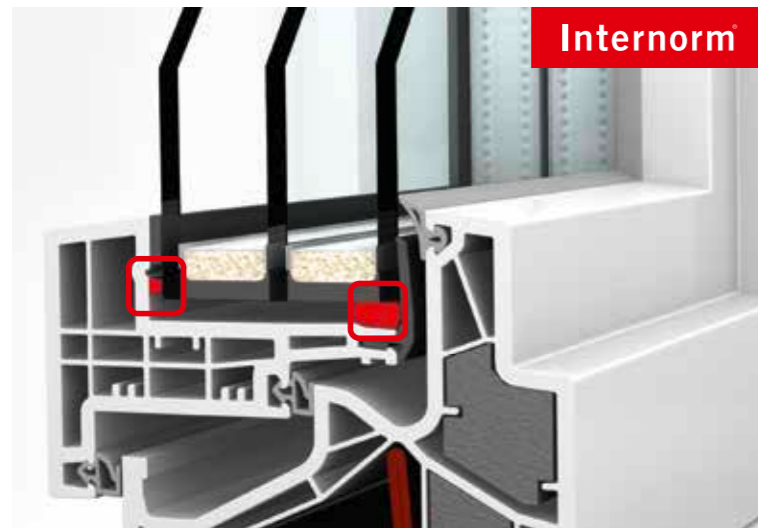


Weathered surface with regular aluminium coating (not highly weather resistant)

15 GLUED PANE

Your advantages: **FIX-O-ROUND® Technology since 2002**

- Improved thermal insulation and security
- Improved sound protection
- Improved functioning and stability, especially for higher sash weights



I-tec glazing



Packers



INNOVATION ALL AROUND

Many window panes are only connected to the frame in very few positions. Internorm uses **FIX-O-ROUND® Technology** as standard for continuous all round fixing. The advantage of this technology lies in the continuous connection of the window frame with the glass pane.

This improves stability, thermal insulation and soundproofing, burglary protection and functioning of the window for its entire lifespan considerably.



The welded sash frame is tensioned from corner to corner.



The glass pane is set into the frame and centred.



The remaining gap between glass and frame is filled with glue all around.



By fitting the glazing bead or cover bead the glue joint is covered.

TIMBER/ALUMINIUM WINDOW FROM INTERNORM – SOPHISTICATED QUALITY



HF 310 Timber/aluminium window, inside view



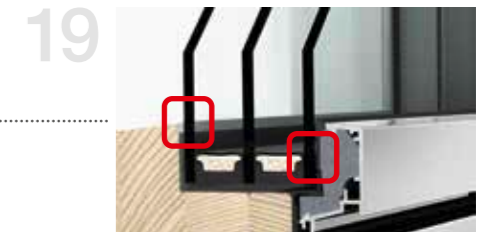
16 Timber/foam/aluminium compound – the perfect trio.



17 For the production of timber profiles only high-quality, free from knots timber is used with Internorm.



18 Impregnation of the timber parts ensure long life, best quality and optimum protection for all edges.



19 Optimum protection for your timber/aluminium window through wet sealing.

Naturally, all timber/aluminium windows are equipped with the elegant Internorm details:

- High-quality aluminium handle
- Rounded closing elements

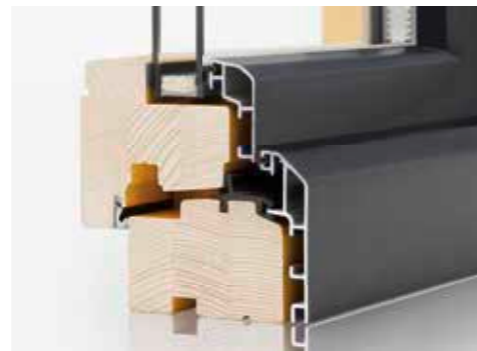
TIMBER/FOAM/ALUMINIUM COMPOUND

Your advantages:

- **Timber:** Weight-bearing construction part for static and cosy interior appearance
- **Thermal foam:** Insulation for best thermal insulation and protection from humidity of timber parts
- **Aluminium:** Individual colour design, weather protection



Traditional window system without thermal foam.



* Confirmed by IFT-Rosenheim

CONSTRUCTION PARTS ARE PRE-TREATED TO EUROPEAN STANDARDS

Your advantages:

- Internorm pre-treat all timber parts individually
- This results in long life, high quality and optimum protection – especially in corner areas



If the assembled frame is impregnated, there is no protection in the connection areas.



HIGHEST QUALITY TIMBER

Your advantages:

- The timber is tested before production for stylish design and maximum stability
- Only high-quality and free of knots timber is used



All used timber comes from sustainably sourced forestry and mostly from PEFC certified forestry and sawmills.



GLAZING

Your advantages:

- We glue the panes inside and outside which improves functioning and stability
- Wet sealing and adhesive tapes ensure tightness and prevent water entering in



The glazing is tight from the inside of the room, therefore no humid room air can enter and damage the timber.



20 MATERIALS OF THE HIGHEST QUALITY PERFECTLY COMBINED

The perfect window for each building style and each room.
Would you rather have a UPVC/aluminium window in the bathroom, but not want to miss a timber/aluminium window in the living room – Internorm can offer the perfect solution.
The window design and therefore the exterior design of the house remains the same. For the inside area the windows are designed according to the requested requirements – either in UPVC or in timber.



Timber/aluminium window FOR HIGHEST DEMANDS

As part of the facade, windows are exposed to weather conditions which affect especially timber very easily.
The solution: A longlasting aluminium clad protects the outside of the window. Timber/aluminium window systems from Internorm are best suited for highest demands like low energy and passive houses. Additionally, the aluminium clad on the outside is easy to maintain and can be designed in many colours, therefore fitting well to the design style of your house. Timber on the inside creates the required homeliness and naturalness.

TIMBER/ALUMINIUM

- Large space for colour design inside and outside
- Unproblematic combination with UPVC/aluminium windows, same profile design outside
- Same surface outside
- High longevity and stability

UPVC/aluminium window INTELLIGENTLY COMBINED

Facade design always also involves colours. An aluminium clad on the outside of the frame offers manifold design possibilities. The compound of aluminium and UPVC features weather resistant aluminium clad on the outside and an easy to care for surface on the inside.

UPVC/ALUMINIUM

- Manifold colour possibilities of the aluminium clad
- Unproblematic combination with timber/aluminium windows as same surface outside and same profile design

UPVC window SIMPLY HIGH QUALITY

Internorm was the first licence holder in 1966 for the manufacture of UPVC windows in Austria. Nowadays, UPVC wins out as an alternative which is easy to care for, low maintenance and which offers diverse designs. Internorm's UPVC windows offer perfect quality, high-quality functionality, excellent thermal and sound insulation as well as an abundance of individual design possibilities at the best price-service ratio for you.

UPVC

- High longevity
- Optimum price-service ratio
- High quality standard

[1st] in quality.

CONNECTED WITH THIS IS OUR CONTINUOUS ENDEAVOUR, TO FURTHER IMPROVE THE QUALITY WHICH IS ALREADY ON A HIGH LEVEL.



21 100 % MADE IN AUSTRIA

100% Made in Austria – a seal of quality with more than 80 years of commitment. More than 21 million sold window and door units and therefore millions of excited customers are the best proof for the high quality of Internorm products which are being developed and manufactured by over 1900 employees in the manufacturing sites of Traun, Sarleinsbach and Lannach.

We will not part with the **“overall concept of window and door systems”** – from research and development to our own extrusion, insulating glass production to the most modern manufacturing technologies and logistic systems. This guarantees the brand-leading standard of our quality.

Due to the independence from system suppliers Internorm is developing its own sash and frame designs as well as individual hardware systems.

We could impressively underpin our pioneering role in the development of window systems with a promising future with our **innovative I-tec technologies** and become

established further as a competent and technological leader.

We are contributing to the preservation of valuable resources **by continuous investments into environmental protection**, ecologically improved production processes and more rational manufacturing and distribution methods.

Our vision to further expand our leading market position should be promoted through additional innovations and entering into new markets.



TRAUN/UPPER AUSTRIA
UPVC window, insulating glass and aluminium entrance door production

SARLEINSBACH/UPPER AUSTRIA
UPVC window and insulating glass production, extrusion

LANNACH/STYRIA
Timber/aluminium production

22 TOP QUALITY WITH SECURITY

Internorm has made a name for itself since the beginning of the company more than 80 years ago by a consistent quality mentality and innovations power. Our well-engineered window and entrance door solutions are sending a clear signal: **Quality is our daily requirement!**

Day by day, highly qualified employees in our company will endeavour to keep our quality promise for the future. **The many tests and exact documentations of our product quality go without saying.** Our modern and fully equipped in-house test centre examines all components for the quality checks of our products. Internorm has always been implementing these standard tests like tensile tests, driving rain tightness, differential climate performance, air permeability, irradiation test etc. Thus, our technicians are laying the cornerstone for producing windows and entrance doors in high quality and according to requirements.

Our quality assurance system is established and certified according to the international standard ENISO 9001:2008. Country-specific seals of quality and yearly

certificate extensions also confirm the high quality of our products. Our production and product control is built upon the basics of modern processing controls.

These extensive qualification tests from the smallest building component to the finished window guarantee highest quality assurance for Internorm products – and for our customers.

The Internorm quality demand does not end once our products leave the production sites. Only when our customers receive their orders on time and are satisfied, that's when we are satisfied.

Our sophisticated logistics concept guarantees reliable and on-time delivery of complete orders at the arranged delivery date in the EU markets. This is our highest logistics aim and our demand on ourselves. In recent years we achieved the planned **delivery service level of 97.5 percent.**



DIPLOMA

GUARANTEED MORE KNOW-HOW!

did participate in the fitting training program to become a **CERTIFIED FITTING SPECIALIST** and did successfully pass the exam


Place, Date

Internorm


Internorm

23 INTERNORM STANDS FOR REVOLUTIONARY BRAND INNOVATIONS


1979
Own extrusion – stand-alone innovations independent of profile suppliers




1966
First UPVC window production in Austria




1984
Own insulating glass production – more flexible, know-how in the insulating glass area




1986
Window with integrated sun protection or quadruple protection in one window




1991
Change in distribution to specialised trade partners – no direct sales any longer! Unique in the branch




2001
First timber/aluminium window with highly thermally insulating thermal foam




2001
First fully concealed hardware as standard version




2002
First continuous all around glueing of the glass pane on to the sash



2010
Flush window design




2011
Highly thermally insulating window and door system with high demand on design




2012
First fully integrated locking

I-tec Locking



2014
SmartWindow, the intelligent building control

I-tec SmartWindow




1931
Founding

1979
First UPVC window with coloured aluminium clad



1979
First window with 3 gaskets: Internorm 3 – 3 panes, 3 gaskets!



1988
First coated glazing as standard



1994
First lead-free UPVC window



1994
Revolutionary UPVC window system **TREND with soft line design** characterises the branch



1998
First aluminium entrance door with foamed insulation core



2009
First special coating **SOLAR+** for best energy efficiency and solar gain



2012
First photovoltaic blind in windows with integrated blinds

I-tec Shading



2012
First fully integrated ventilator with heat exchanger

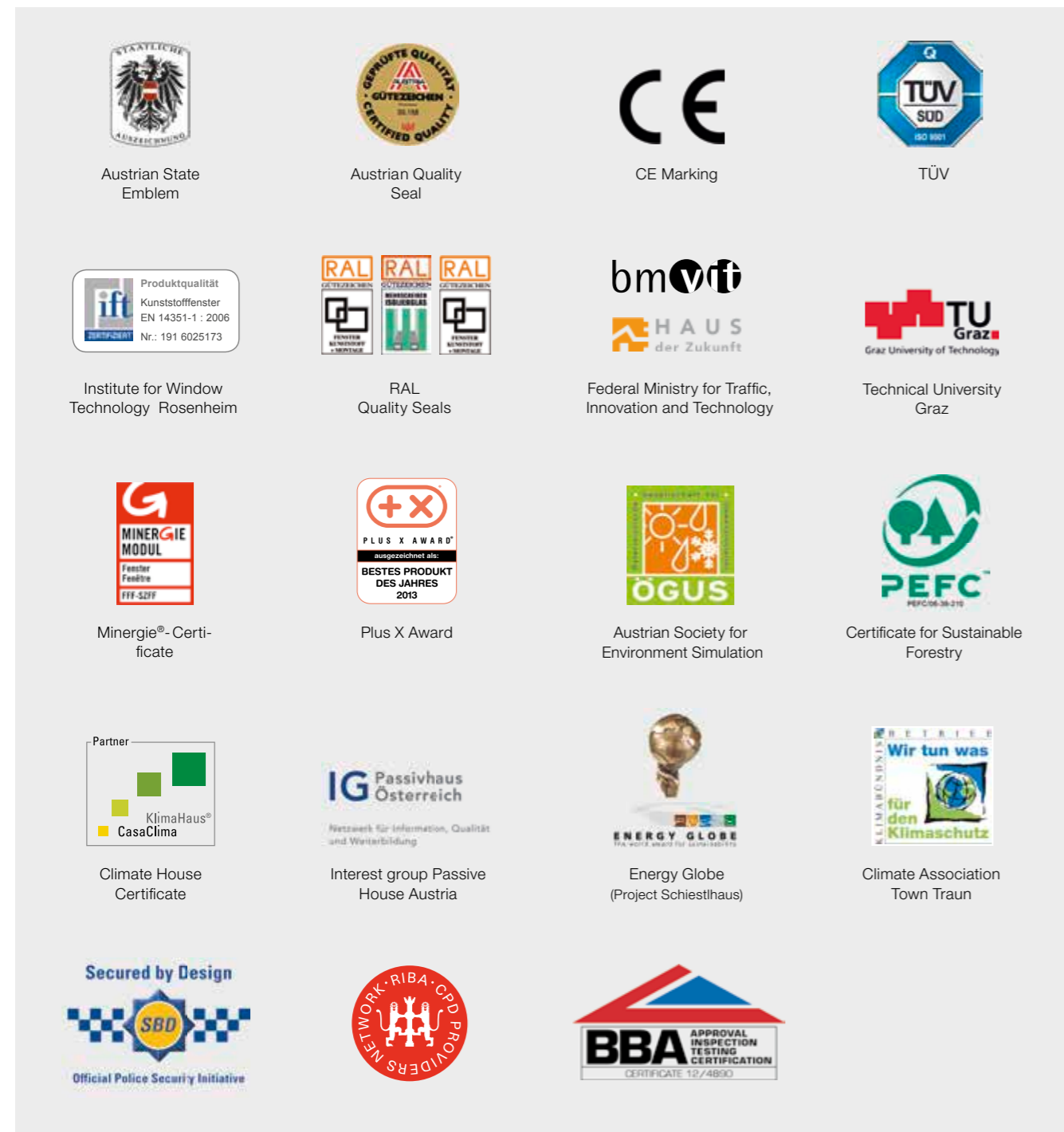
I-tec Ventilation



24 EXCELLENT QUALITY – CERTIFIED MANY TIMES OVER

National and international certificates confirm the high quality of Internorm products. Many years of know-how ensure security to achieve best performance. Research and development are top priorities with Internorm. More than 80 years of experience, several patents and our innovation power underline the pioneering role and

supremacy of the company. Latest production facilities and strictest quality controls ensure a quality constant which sets trendsetting standards Europe-wide. As proof for this Internorm rightly carries quality seals of independent test certificates such as e.g. the Austrian Quality Seal or the RAL Seals for windows, profiles and glass.



25 WE GUARANTEE TO PROMISE MORE

Warranty 10 YEARS	<ul style="list-style-type: none"> ■ No unnatural colour changes or cracked surfaces due to weather influences for white window and door profiles made of UPVC, with the exception of mitre cracks. ■ No unnatural colour changes or cracked inside surfaces due to weather influences for foil-coated window and door profiles made of UPVC, with the exception of mitre cracks. ■ No unnatural colour changes or cracked surfaces due to weather influences for anodised or powder coated window and door profiles made of aluminium. ■ No condensation between the panes of insulating glass. ■ The function of the timber, thermal foam and aluminium profiles compounds is guaranteed for all Internorm timber/aluminium window systems, provided that the Internorm installation and maintenance guidelines have been adhered to. ■ The function of the adhesive and the sealing of insulation glass panes with the window profiles is guaranteed for all Internorm timber/ aluminium window systems, provided that the Internorm installation and maintenance guidelines have been adhered to. ■ The glue connection of glued Georgian/feature bars.
Warranty 5 YEARS	<ul style="list-style-type: none"> ■ PVD coated door handles are guaranteed against corrosion if there is no mechanical change. ■ No unnatural colour changes or surface cracks due to weather influences in door fillings. There is no guarantee for changes in the surface appearance as a result of dirt.
Warranty 3 YEARS	<ul style="list-style-type: none"> ■ No unnatural colour changes or surface cracks due to weather influences for roller shutter profiles made of UPVC. ■ No unnatural colour changes or surface cracks due to weather influences for anodised or powder coated roller shutter and blind profiles made of aluminium. ■ The function of the window or door fittings is guaranteed, provided that the Internorm installation and maintenance guidelines have been adhered to.
Assurance 30 YEARS	<p>Furthermore Internorm guarantees safe-guarding that Internorm products can be repeatedly serviced by our experts in such a fashion (original parts not obligatory), to retain their full function for a period of 30 years. However, this presupposes that the frame construction (frame and sash) is not damaged. The 30-year period starts from the production date. The services required to maintain the functionality, including the materials required, labour etc. will be invoiced according to the currently valid rates.</p>

WARRANTIES / EXTRACT:
The full wording of our warranty conditions, the exact preconditions for the application of the warranty, and what you should do in the event of a claim, can be found in the Internorm Maintenance Care and Warranties Manual. You will receive this booklet when your Internorm products are delivered. In addition, it is obtainable from any Internorm distribution partner.

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