

WINDOWS

Highlights of Architecture 2017/18



3RD GENERATION (f.l.t.r) Mag. Christian Klinger Mag. Anette Klinger DI (FH) Stephan Kubinger, MBA

EURÓPE'S NO. 1 WINDOW BRAND

WE ARE A STRONG FAMILY BUSINESS!

Internorm has been a family business for more than 85 years having developed from a one-man blacksmith's shop to the largest internationally active window brand.

During this time we have manufactured over 23 million window and door units, all 100% made in our production facilities in Traun, Sarleinsbach and Lannach. From the creation of the UPVC window and the production of the timber/aluminium window to today's high tech and ultra-modern design innovations, our family company has been setting standards all over Europe. We are pioneers in our field and continue to further develop technology and innovative ideas.

Our staff, of over 1800 employees across Europe, are specialists who thrive on attention to detail and act with passion and integrity. Together with more than 1300 distribution partners in 21 countries we guarantee perfect product quality and the highest levels of service.

- Internorm manufacturing sites (production exclusively in Austria)
- Internorm offices
- Internorm distribution partners

COVER PHOTO: WINNER OF INTERNORM'S ARCHITECTURAL COMPETITION 2016

First prize private construction | Architecture firm: RIED + ZRENNER architektur ZT GmbH | Windows HF 310, HS 330



www.internorm.com

CONTENT

	Window/door overview	6
UPVC WINDOWS UPVC/ALUMINIUM WINDOWS	KF 220 KF 500 KF 410 KF 200 KV 240 KV 440	10 11 12 13 14
TIMBER WINDOWS TIMBER/ALUMINIUM WINDOWS	HF 210 HF 310 HF 410 HV 350	18 19 20 21
ENTRANCE DOORS	AT 410 AT 400 AT 310 AT 305 AT 200 HT 410 HT 400	24 26 28 30 32 34 36
TECHNOLOGIES	I-tec Core I-tec Shading I-tec SmartWindow I-tec Ventilation I-tec Locking I-tec Insulation I-tec Glazing	41 42 43 44 45 46
FEATURES	Panorama HX 300 KS 430 HS 330 Combinability Security Handles for entrance doors Handles for windows Colours Glazing Sun and insect protection Side entrance doors	49 50 51 52 54 56 57 58 61 62 63
	Thermal insulation Sound reduction Warranties/certificates	64 66 66

DesignStyles

Highlights of architecture







studic

Follows a very clear line in its design. This style with its cutting edge shapes and diminished appearance gives a contemporary and unconventional feel.

home pure

Meets the demands for a modern and straight-lined style creating bright living environments.

home soft

Feels friendly and cozy and offers many design varieties – from elegant to playful.

ambiente

Stands out with its traditional shapes – timeless classical and elegant. Its composition is elaborately designed and conveys a homely feel.

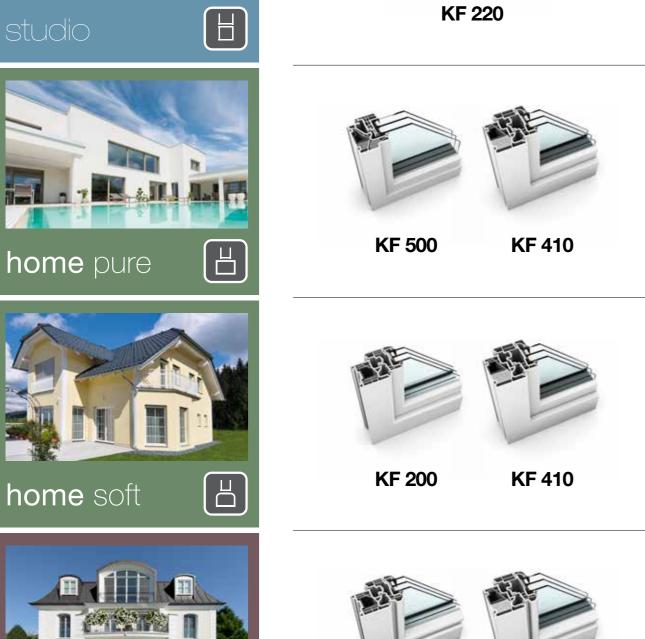
WINDOWS AND DOORS FOR YOUR DREAM HOUSE

Architecture is as diverse as the people who live in it. The style of a house is not only shaped by building design, especially windows and doors also underline its character considerably.

You can fulfill your personal idea of living with Internorm windows and doors. Internorm is offering you a suitable solution.

To help you find the window and door solutions which fulfill exactly your requirements for architecture, design and comfort among the multitude of possibilities in shape, colour and material, you can choose from the different Internorm design styles: studio, home pure, home soft and ambiente.

studio E



KF 200

KF 410

UPVC WINDOWS









KV 440

ambiente

TIMBER AND TIMBER/ALUMINIUM WINDOWS



HF 310



HF 410



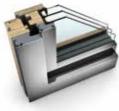
HV 350



HF 210



HF 310



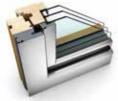
HF 410



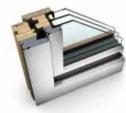
HV 350



HF 210



HF 310



HF 410



HV 350



HF 210



HF 310



HF 410



HV 350

TIMBER/ALUMINIUM ENTRANCE DOORS



HT 410



HT 400

studio

home pure
home soft
ambiente

ALUMINIUM ENTRANCE DOORS









AT 410

AT 400

home pure

ambiente

home pure

AT 310

ambiente

AT 305

home pure
home soft
ambiente

AT 200

home soft



KF 220 upvc & upvc/aluminium window

KF 500 upvc & upvc/aluminium window

PROPERTIES

Thermal insulation (in W/m²K)

U_w as low as 0.67

Sound reduction (in dB)



Security



RC1N, RC2

Locking



concealed

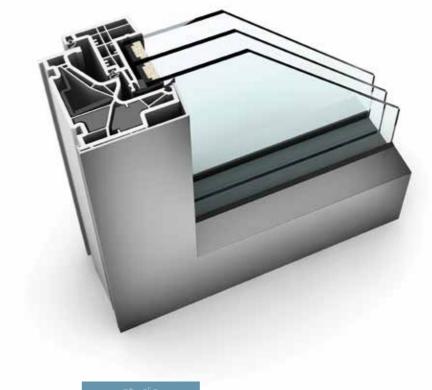
Construction depth (in mm)



Design style

studio

I-tec Glazing



PROPERTIES

Thermal insulation (in W/m²K)



U_w as low as 0.61

Sound reduction (in dB)



up to 46

Security



Locking



fully integrated

Construction depth (in mm)



Design styles

studio home pure

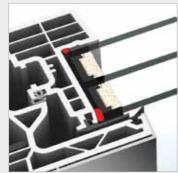
I-tec Locking

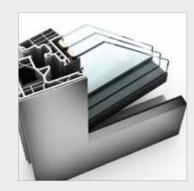


I-tec Ventilation



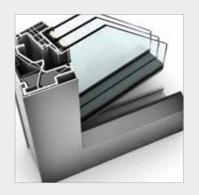






KF 220

The innovative glass sash of the KF 220 gives the impression of fixed glazing, nevertheless it is an openable window. Whether in the classic white UPVC version or with aluminium attachment clad, the narrow, squareedged window frame underlines the reduced architecture of the design style studio. Three-sided rendering of the frame fulfills your dreams of almost frameless glass architecture. I-tec glazing ensures excellent stability, thermal insulation and security by all round bonding of the glass pane.







KF 500

KF 500 combines innovative design and technical know-how. The window sash is not visible from the outside due to its glass appearance and cannot be distinguished optically from fixed glazing. This sash also conceals the revolutionary I-tec locking which renders levering of the window impossible, unrivalled in the branch. Integrated coverings push on to the frame interior on all sides when locking and therefore offer maximum security protection. KF 500 can additionally be equipped with I-tec ventilation, a ventilation system integrated into the window

KF 410 upvc & upvc/aluminium window

KF 200 upvc & upvc/aluminium window

Passive house certified in the standard version

PROPERTIES

Thermal insulation (in W/m²K)



U_w as low as 0.62

Sound reduction



Security



RC1N, RC2

Locking



concealed

Construction depth (in mm)



Design styles

studio home pure home soft ambiente

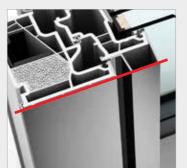
I-tec Glazing

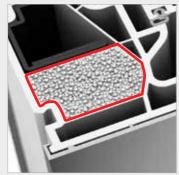


I-tec Insulation



I-tec Ventilation







KF 410

The completely flush transition of frame and sash combines KF 410 to one unit. Once the frame is rendered into the brickwork on three sides, only the narrow, square-edged sash frame remains visible. The frame is insulated seamless through the new insulation technology and thermal insulation is considerably improved. Technological advances with airing is provided by the I-tec ventilation. The ventilation system which is integrated in the frame sufficient fresh air and ideal room climate 24/7.

PROPERTIES

Thermal insulation (in W/m²K)



U_w as low as 0.74

Sound reduction (in dB)



up to 45

Security



RC1N, RC2

Locking



exposed

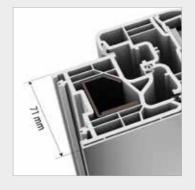
Construction depth (in mm)



Design styles

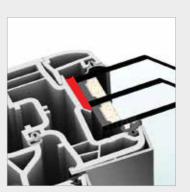
home pure home soft ambiente

I-tec Glazing



home pure





KF 200

KF 200 with a construction depth of 71 mm belongs to the slimline windows on the market. The aluminium clad on the outside is not only square-edged and straight-lined, it can also be designed in many colours. I-tec glazing ensures excellent stability, security protection as well as thermal insulation and sound reduction. Here, the glass pane is bonded to the window frame without any spaces. This innovative technology is available as standard with all Internorm windows.

KV 240 upvc/aluminium window with integrated blind

PROPERTIES

Thermal insulation (in W/m²K)



 U_w as low as 0.80

Sound reduction



Security



RC1N, RC2

Locking



exposed

Construction depth (in mm)



Design style

home pure

I-tec Glazing

I-tec Shading

home pure







KV 240

More light in spite of sun protection? This is no different for the KV 240. The sun and privacy protection is already fitted between the panes in this flush window and offers quadruple protection with superior thermal insulation and sound reduction values all in one window. Besides blinds or Venetian blinds, Duette blinds offer absolute privacy. Additionally, I-tec shading can be controlled without external power source due to the photovoltaic module and can be conveniently operated via the I-tec Smart Window App from your tablet or Smartphone.

Passive house certified in the standard version

PROPERTIES

Thermal insulation (in W/m²K)



U_w as low as 0.64

Sound reduction



up to 45

Security

KV 440 upvc/aluminium window with integrated blind



RC1N, RC2

Locking



concealed

Construction depth



Design styles

studio home pure home soft ambiente

I-tec Glazing













KV 440

The window with integrated blinds KV 440, also offers all around comfort besides flush design. Sun and privacy protection is integrated between the panes and therefore protected from dirt. routine cleaning of individual slats is a thing of the past. I-tec shading also offers many advantages when it comes to performance. The sun protection can be controlled via photovoltaic module and batteries and does not need any external power source. I-tec SmartWindow enables convenient operation via your tablet or Smartphone.





SOPHISTICATED SHAPE

Space, light and order characterise the style of the building.

Due to large-scale glazing on the south side, the walls open up completely
and create spacious inside and outside areas.

Detached house (A): Windows HF 310, HS 330

HF 210 TIMBER/ALUMINIUM WINDOW

HF 310 timber/aluminium window

PROPERTIES

Thermal insulation (in W/m²K)

U_w as low as 0.67

Sound reduction (in dB)

Security



Locking

concealed

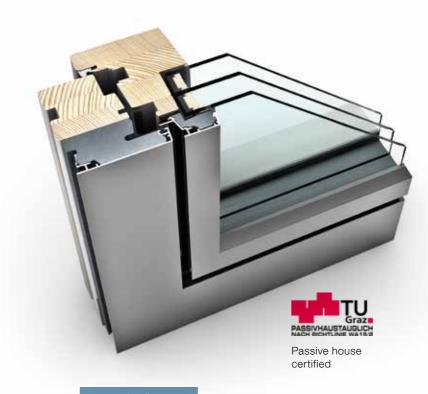
Construction depth (in mm)



Design styles

home pure home soft ambiente

I-tec Glazing



PROPERTIES

Thermal insulation (in W/m²K)



U_w as low as 0.62

Sound reduction (in dB)



up to 46

Security



Locking



concealed

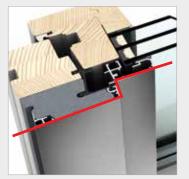
Construction depth (in mm)



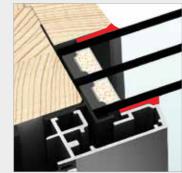
Design styles

studio home pure home soft ambiente

I-tec Glazing



home pure





HF 210

Timber, aluminium combination eliminates the need for exterior maintenance, due to the aluminium attachment clad which protects the timber from weather conditions. The square-edged aluminium profiles of frames and windows can be designed in many colours and facilitate countless design possibilites of the exterior facade. I-tec glazing, the continual all around bonding of the glass pane, offers excellent stability, security protection as well as thermal insulation and sound reduction. Concealed hardware on the inside of HF 210 ensures a continuous, comfortable timber surface.







HF 310

A combination of timber/aluminium and highly insulating thermal foam in between the frame & sash. The HF 310 provides excellent thermal insulation values, natural timber refined with subtle paints, weather-resistant aluminium on the outside render the HF 310 the most attractive option among the timber/aluminium windows. Due to the same, flush design of the aluminium clad, HF 310 can be combined with UPVC window KF 410. All around bonding of the glass pane (I-tec glazing) ensures excellent stability and security protection. Triple continuous gaskets protect the interior area from exposure to the rain.

HV 350 timber/aluminium window with integrated blind

HF 410 timber/aluminium window

Thermal (in W/m²K)

PROPERTIES

Thermal insulation (in W/m²K)

* U_w

U_w as low as 0.64

Sound reduction (in dB)

9 ((

up to 4

Security



RC1N, RC2

Locking



concealed

Construction depth



0.5

Design styles

studio home pure home soft ambiente

I-tec Glazing

I-tec Core



PROPERTIES

Thermal insulation (in W/m²K)



 $U_{\mbox{\tiny W}}$ as low as 0.60

Sound reduction (in dB)



up to 47

Security



RC2

Locking



concealed

Construction depth (in mm)



85

Design styles

studio home pure home soft ambiente

I-tec Glazing

I-tec Shading

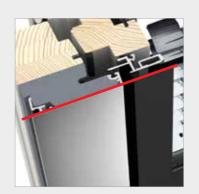




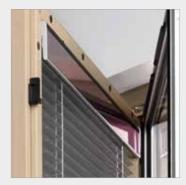


HF 410

Sustained materials and colours of the interior decoration underline your minimalistic living style and bring individual elements into the forefront. HF 410 adapts perfectly to your interior design. Different colours and timber types offer you countless possibilities for your individual colour design of your interior spaces. Grey Oak as interior colour agrees with the modern living style with clear forms, plain materials and modest colours. Made to order, opening and fixed glazed windows can be integrated to large areas.







HV 350

The sun and privacy protection integrates harmoniously into this flush window and offers quadruple protection all in one window with excellent thermal insulation and sound reduction values. Blinds, Venetian blinds or Duette® blinds are situated between the panes and therefore protected from dust. The energy self-sufficient I-tec shading does not require any external power source due to the photovoltaic module and batteries. Integrated automatic functions such as day/night recognition and intelligent heat protection can be activated simply via your tablet or Smartphone, I-tec Smart Window is also available.







CLEAR LINES

Due to the structured and spatially arranged logic, the windows integrate well into the plain cube and create a relaxing appearance. Detached house (A); windows HF 310

AT 410 ALUMINIUM ENTRANCE DOOR

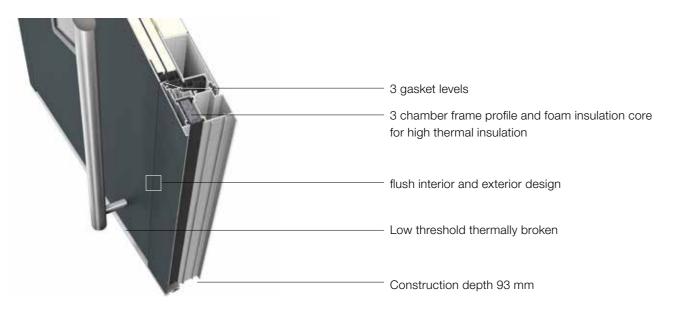
COMPLETE IN FORM - FLUSH DESIGN IN PERFECTION

The flush design of frame and door leaf is perfected through concealed hardware, level key hole cover plates, sunken recessed handles and heavy duty joiners as well as flat glass surrounds.



Online door designer







FA
Colour: HFM14
Handle: EGS01
Order no.: AT-17-001



FO Colour: HFM05 Handle: RGS01 Order no.: AT-17-002



FG
Colour: HM716
Handle: MGSE10
Designer elements: Heavy duty joiners
Order no.: AT-17-011



GG
Colour: HF113
Handle: MGSC10
Glass: Matt white, Alunox glass surround
Order no.: AT-17-017



DD
Colour: HM716
Handle: TEG15
Glass: Matt white
Designer elements: Heavy duty joiners
Order no.: AT-17-023



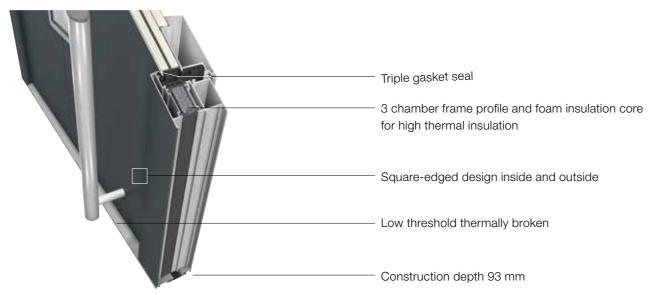
PN
Colour: Frame HM907,
sash HM907, M916
Handle: EGS06
Glass: Matt white
Alunox glass surround
Order no.: AT-17-024

AT 400 ALUMINIUM ENTRANCE DOOR

PURISTIC - CREATES CLEAR LINES

The smooth door leaf and the square-edged frame creates clear lines which are further emphasized through straight-lined designer elements or glass cut-outs, bar handles as well as raised or flat heavy duty joiners.







FM Colour: Frame HM704, sash HM704, M916 Handle: KGS03 Order no.: AT-17-005



FK
Colour: HM716
Handle: SG13
Designer elements: Heavy duty joiners
Order no.: AT-17-006



PE
Colour: HFM03
Handle: EGS01
Glass: Matt white
Order no.: AT-17-027



Colour: Frame HFM12, sash HFM12, M916 Handle: MGSE6 Glass: Matt white Order no.: AT-17-029



PK Colour: M916 Handle: RGS03 Glass: Matt white Order no.: AT-17-036



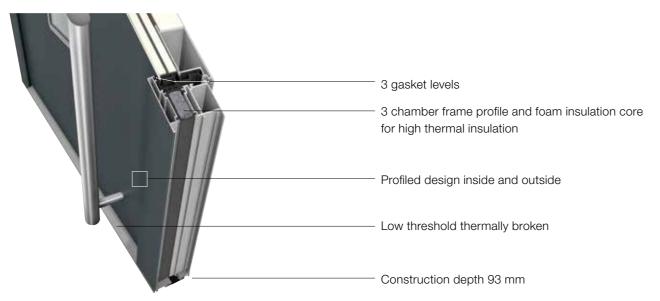
AG
Colour: Frame HF113,
sash HF113, M916
Handle: HS40
Glass: Matt white
Order no.: AT-17-045

AT 310 ALUMINIUM ENTRANCE DOOR

STRAIGHT-LINED - STUNNING DESIGN FEATURES

The combination of flush door leaf outside and profiled door leaf inside offers numerous design possibilities. The clear shapes are underlined by millings, glass cut-outs and designer frames.







SA
Colour: HFM05
Handle: HS30
Glass: MDNL
Order no.: AT-17-039



SJ Colour: HFM22 Handle: MGSE6 Glass: Matt white Order no.: AT-17-040



Colour: M916
Handle: HS10
Glass: D03
Order no.: AT-17-042



PG Colour: HFM11 Handle: RGS02 Glass: Matt white Order no.: AT-17-034



PM Colour: HF113 Handle: HS10 Glass: Matt white Order no.: AT-17-035



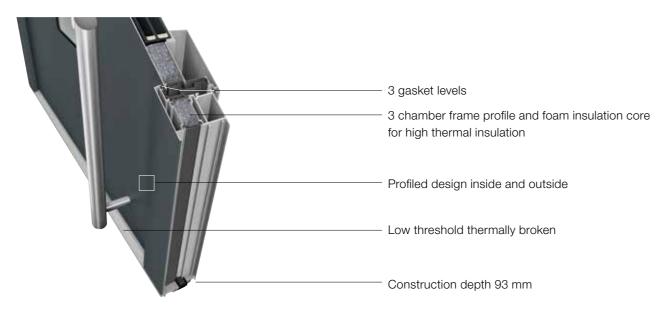
PK Colour: M916, Handle: RGS03 Glass: Matt white Order no.: AT-17-036

AT 305 ALUMINIUM ENTRANCE DOOR

LINEAR LINES - PURISTIC DESIGN

The intelligent plate construction with insulation glass core ensures excellent thermal insulation and sound reduction as well as maximum stability. Standard triple-point locking with two bolts and one main bolt render these entrance doors additionally secure.







Colour: HFM12 Handle: EGS08 Glass: Matt white Order no.: AT305-17-033



Colour: HFM11 Handle: RGS02 Glass: Matt white Order no.: AT305-17-034



PM
Colour: HF113
Handle: HS10
Glass: Matt white
Order no.: AT305-17-035



FA
Colour: HFM14
Handle: EGS01
Order no.: AT305-17-001



GZ
Colour: HFM05
Handle: KGS04
Glass: Matt white
Order no.: AT305-17-015



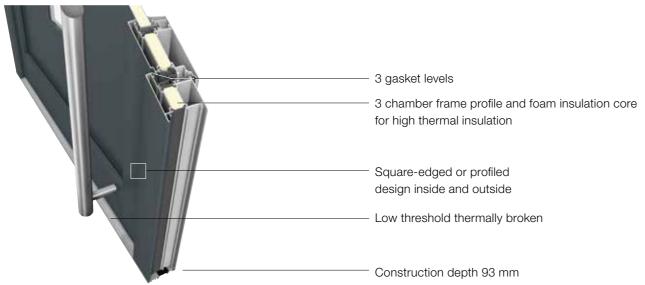
Colour: Frame HM716, sash HM716 Handle: HS42 Glass: Matt white Order no.: AT305-17-018

AT 200 - ENTRY MODEL

WITH MANY VARIATIONS - FROM TRADITIONAL TO CONTEMPORARY

This entrance door can be designed in many ways with beaded sash, designer ornaments and Georgian/feature bar solutions. AT 200 features a profiled door leaf inside and outside which can alternatively be square-edged.







Colour: Frame M916, sash M916, HM735 Handle: HS10 Glass: Satinato white Order no.: AT-17-065



SE-P0B
Colour: HM304
Handle: HS10
Glass: MRI
Order no.: AT-17-075



EL-K1B
Colour: HFM04
Handle: GD15
Glass: D41
Order no.: AT-17-087



VA-K2B Colour: HM704 Handle: TEG14 Glass: Matt white Order no.: AT-17-068



LU-B3B Colour: Frame HM716, sash HM716, M916 Handle: GD10 Glass: Satinato white Order no.: AT-17-077

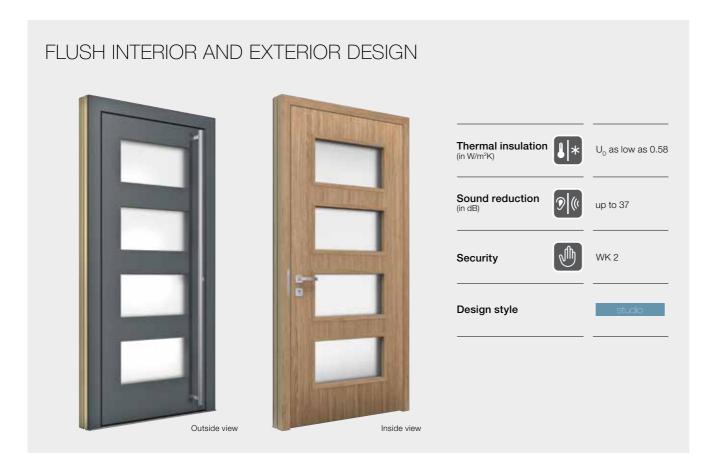


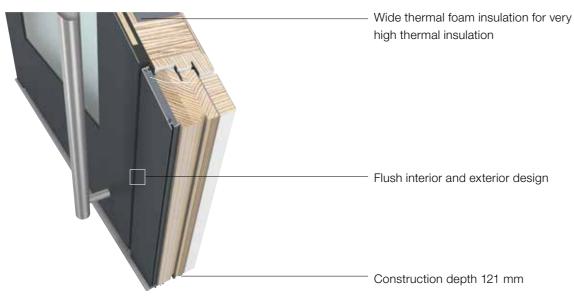
SE-ROB
Colour: HFM02
Handle: TEG10
Glass: Linea
Order no.: AT-17-061

HT 410 timber/aluminium entrance door

FLUSH DESIGN

The smooth flow from frame and door leaf, concealed hardware, level key hole cover plates, recessed handles and millings as well as flat glass surrounds create the perfect design.







PU-A1B
Colour: HM716
Handle: KGS01
Glass: Matt white
Order no.: HT-17-015



PU-F4B
Colour: HM906
Handle: HS42
Glass: Matt white
Order no.: HT-17-016



GA-E0B
Colour: HFM13
Handle: TEG10
Order no.: HT-17-004



GA-D0BColour: HM304
Handle: MGSE08
Order no.: HT-17-002



PU-L2B
Colour: Frame HF817,
sash HF817, HM113
Handle: KGS05
Glass: Matt white
Order no.: HT-17-018



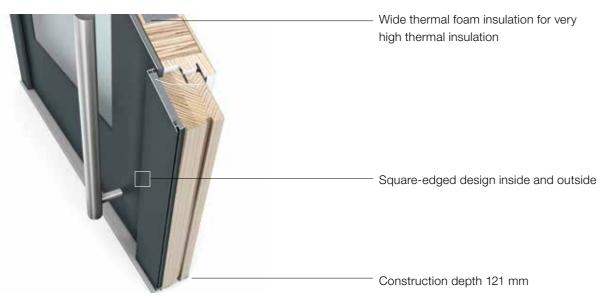
GA-A0B Colour: DM03 Handle: KGS01 Order no.: HT-17-001

HT 400 timber/aluminium entrance door

PURISTIC LINES

The smooth door leaf and the square-edged frame create clear lines which are emphasized by continuous glass layers, straight-lined designer elements, bar handles as well as stainless steel attachments.







VE-D0B Colour: Frame EL02, sash SG07/SG01 (security glass)

Handle: KGS02 Order no.: HT-17-012



VE-A0B

Colour: Frame DM03, sash SG07/SG01 (security glass) Handle: TGS15 Order no.: HT-17-014



CO-A1B

Colour: RAL1012 Handle: EGS01 Glass: Matt white Order no.: HT-17-033



SQ-E1B

Colour: Frame HM907, sash M916, Stainless steel Handle: TEG12 Glass: Matt white Order no.: HT-17-030



PU-K1B

Colour: Frame HM716, sash HM716, M916 Handle: MGSE8 Glass: Matt white Order no.: HT-17-027



CO-C1B

Colour: HM817 Handle: HS10 Glass: Matt white Order no.: HT-17-035



MODERN PLAY IN BLACK AND WHITE

Clear architectural language by colour separation of solid and open building elements.

Detached house (RO), door: AT 410, windows: KF 405









EXTREMELY STABLE CORE



SLIM SIGHT LINES FOR EXTRA LIGHT



HIGH LOAD-BEARING CAPACITY



RESOURCE-SAVING AND SUSTAINABLE



INDIVIDUAL COLOUR DIVERSITY
AND TIMBER VARIETY

REVOLUTIONARY

NEW STANDARDS FROM INTERNORM.

Under the melodius title of "I-tec", Internorm has been developing a series of revolutionary technologies to meet the rising demands on design, technology, quality and comfort.

- · I-tec Core
- · I-tec Ventilation
- · I-tec Locking
- · I-tec Shading
- · I-tec Glazing
- I-tec InsulationI-tec SmartWindow
- Discover Internorm's innovative technologies on the

following pages and be amazed!



STABLE CORE

SOLID. RESOURCE-SAVING. SUSTAINABLE.

The strength of timber is unrivalled. Therefore, we have used this proven and natural material and developed a new revolutionary technology for the window industry to create an even more sustainable and individual window for you.

With the new I-tec Core we are processing thin, bonded timber layers, for the core of the timber/aluminium window HF 410. This timber is considerably more resisitant to humidity, durable and extremely strong. This new high-tech material is sustainable and allows larger sizes through its particular load-bearing capacity. The narrow frame design shows more aesthetics to this window.





SHADING WITH SELF-SUFFICIENT ENERGY

INTEGRATED. INDEPENDENT.

AUTOMATIC.

All Internorm windows with integrated blinds can be powered by a self-suffcient photovoltaic module. I-tec shading works without an external power source and the decorative feel of the window is fully retained.

The intelligent automatic mode with day/night recognition allows automatic opening and closing of the blinds at sunrise and sunset. Measuring solar radiation and temperature prevents overheating of the rooms. In winter the automatic control keeps the blinds open and enables maximizing of solar gains and therefore a reduction in heating costs.

I-tec Shading



INTEGRATED SUN AND PRIVACY PROTECTION



AUTOMATIC HEAT PROTECTION IN SUMMER



AUTOMATIC
DAY/NIGHT RECOGNITION



NO EXTERNAL POWER SOURCE NECESSARY



MANUAL CONTROL AVAILABLE



USE OF ENERGY GAIN IN WINTER

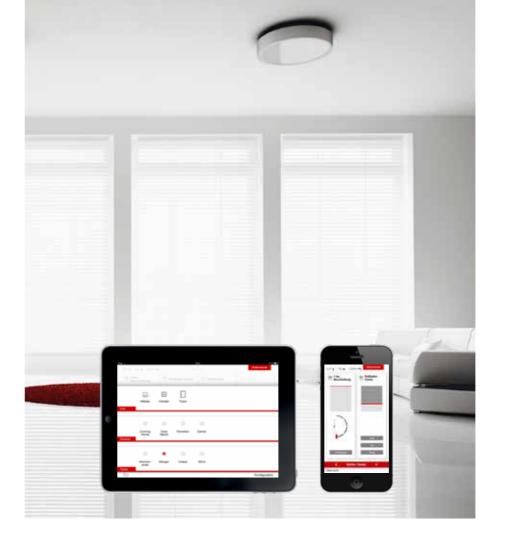


SIMPLE AND CONVENIENT CONTROL VIA SMART WINDOW



CONTROL WITH LOXONE SMART HOME AVAILABLE





I-TEC SMARTWINDOW

INTELLIGENT. SIMPLE. CONVENIENT.

Internorm's intelligent building control I-tec SmartWindow makes it easy for you to operate your ventilation and shading simply and conveniently using a smartphone or tablet. No matter if you are at home or away, you can remotely control your I-tec ventilation, I-tec shading, sun protection and fanlight opener via the Internorm app or check the status of your windows via opening sensors.

You can download the I-tec SmartWindow app for free in the app store or in Google play with its associated installation instruction. A few taps with your finger on the user interface are enough to move blinds up or down, adjust the light guidance or regulate the air volume for the ventilator. Also fanlights can be easily opened, closed & tilted.

I-tec SmartWindow



FREE APP
WITH INSTRUCTIONS



EASILY EXTENDABLE



SIMPLE DEFINITION
OF REQUIREMENTS



MANUAL CONTROL AVAILABLE



CONTROL VIA TASKS ALSO ON HOLIDAY



INDIVIDUAL SETTINGS

Free download of Internorm App I-tec SmartWindow:















AIRING OF THE FUTURE

Thanks to Internorm you do not need to remember airing any

longer. Because Internorm is offering you windows, where the

windows this ensures fresh air 24/7 and optimum room climate.

Fresh air is important for our health. It ensures wellbeing, good

can cause considerable damage. The building structure can be

mould, pollen and house dust, heat is also lost.

damaged by mould and humidity, your health is compromised by

You could use a decentral ventilation system. It ensures fresh air,

sleep, high concentration and high performance. With wrong airing humidity, CO₂ or other air impurities remain in the room and

ventilator is completely integrated into the frame. Even with closed

INDIVIDUAL, AUTOMATIC, HEALTHY.

Why is airing so important?

How do you air correctly?

which will be individual for each room.

I-tec Ventilation



FRESH AIR WITHOUT BIG HEAT LOSS



FRESH AIR WITHOUT OUTSIDE NOISE



FRESH AIR WITHOUT DUST



FRESH AIR AGAINST MOULD



FRESH AIR FOR HEALTHY LIVING



FRESH AIR WITH INCREASED SECURITY



FRESH AIR INDIVIDUALLY FOR EACH ROOM



FRESH AIR WITHOUT
WORRIES: AUTOMATIC FUNCTION



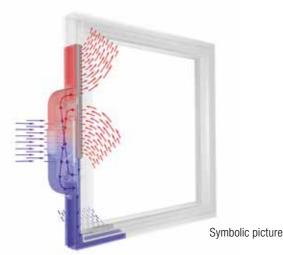
FRESH AIR WITHOUT DRAUGHTS



SIMPLE AND CONVENIENT
CONTROL VIA SMART WINDOW



CONTROL WITH LOXONE SMART HOME AVAILABLE



I-tec Locking



LOW VIEWING HEIGHT FOR MORE LIGHT



FRAMELESS GLASS ARCHITECTURE



SASH WEIGHTS UP TO 130 KG



DISCREET DESIGN
WITH CLEAR LINES



EASY-TO-CLEAN FRAME



NO VISIBLE KEEPS FOR AN ATTRACTIVE LOOKING APPEARANCE



SAME OUTSIDE APPEARANCE
OF FIXED ELEMENT AND SASH

FEEL SAFE

NO COMPETITION. PRECISE. UNDERSTATED.

Instead of conventional locking cams, flaps ensure secure and precise locking of the window sash to the frame. When locking, flaps which are positioned in short distances on all four sides of the sash, press directly against the interior of the frame and make levering of the window virtually impossible.

Contrary to systems with locking cams which need regular adjusting, the I-tec locking needs no counter piece in the frame. The flaps always lock precisely and with total power.

I-tec locking is integrated as standard in the UPVC or UPVC/ aluminium window KF 500 and achieves security class RC2N. Contrary to conventional mushroom shaped locking pins, the function of KF 500 is not restricted in any way despite the high security class.





I-tec Insulation



GRANULATE
INSTEAD OF FOAM



IMPROVED
THERMAL INSULATION



GAPLESS CHAMBER FILLING



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 glazing beads or cover beads the glue joint is covered.

I-tec Glazing





MAXIMUM BURGLARY PROTECTION



INCREASED STABILITY



INCREASED
THERMAL INSULATION



IMPROVED SOUND INSULATION

INNOVATION ALL AROUND

CONTINUOUS. SECURE.

STABLE.

Many window panes are only connected to the frame in very few positions. Internorm uses FIX-O-ROUND technology as standard for a continuous all around 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 sound reduction, security protection and functioning of the window for its entire lifespan.

Special bond ensures not only a tight connection from glass to frame, but also allows easy exchange of the glass pane.



I-tec glazi



NEW INSULATING TECHNOLOGY

CONTINUOUS. EFFICIENT.

Internorm windows are reknown for best thermal insulation values. A significant factor for this is the HCFC-, HFC- and FC-free insulation which is inserted into the frame profiles.

The new I-tec insulation is inserted with pressure as granulate into the inside of the frame of the UPVC/ aluminium windows KF 410 and KV 440. This new insulation technology fills the chambers all around evenly and improves the thermal insulation considerably.





INDIVIDUAL

INTERNORM'S DESIGN POSSIBILITIES.

The design of your house is as individual as you are. Let your taste decide on straight-lined, modern, classical or traditional design styles and allow your home to be as individual as you are. By choosing Internorm you can be sure to get the perfect windows for your house style. With almost unlimited design possibilities will we gladly fulfill your exact requirements.

Internorm windows can support the design of your home with a wide range of design styles including:

- · Attractive handles in aluminium, chrome and brass
- · A multitude of glazing from Satinato to Linea
- Security glazing as well as highly thermally insulating glazing
- Numerous colours for UPVC, timber and aluminium surfaces
- · Sun and insect protection systems





PANORAMA HX 300

OPEN. BRIGHT. FREE.

Large-scale glazings which can be completely integrated into the brickwork, create unlimited freedom for your home. They bring light to the inside and at the same time offer full view to the outside. Innovative solutions such as glass joints where the transition between the glass panes is virtually invisible, offer many possibilities in the modern, large-scale glass architecture. You can set optical highlights with integrated windows in the style of your house.

Enjoy far-reaching views

- · Frameless glass architecture
- · Open bright living environment
- · Create unlimited freedom



Frameless appearance and technologically optimized construction connection





The new UPVC or UPVC/aluminium lift-sliding door KS 430 creates light-flooded rooms and enlarges your home beyond its real borders. Without any effort the large-scale sliding elements can be opened to make even more space.

The KS 430 offers modern design and excellent comfort combined with high-quality technology:

- · More light through large-scale glazings
- · Soft/lift as standard for easy operation
- · Available up to 6500 x 2800 mm
- · Narrow sliding frames and frameless side elements
- · Easy operation of sash up to 400 kg sash weight
- · Energy efficient and heating cost saving
- · No tripping hazard due to low threshold height
- · Attractive colours for individual design requests
- · Better stability due to glass fibre low threshold
- · Thoughened panes protect from injuries when glass breakages
- · Can be perfectly combined with all other Internorm window systems



PROPERTIES

Thermal insulation (in W/m²K)



 $U_{\mbox{\tiny W}}$ as low as 0.64

Sound reduction (in dB)



up to 43



The timber/aluminium lift-sliding door HS 330 makes the borders between inside and outside disappear almost magically. It connects the inside space with the surrounding nature and creates a new, awareness of space.

The HS330 offers unique design and exceptional comfort, combined with high-quality technology:

- · More light through large-scale glazings
- · Available up 11 m wide x 3.2 m height
- · Narrow sliding frame and frameless side elements
- · Easy lifting and sliding of sash up to 400 kg sash weight
- · Energy efficient and heating cost saving
- · Low heat emission due to triple glazing
- · No tripping hazard due to low threshold height
- · Attractive colours for individual design requests
- · Better stability due to glass fibre low threshold
- · Thoughened panes protect from injuries
- · Can be perfectly combined with all other Internorm window systems



PROPERTIES

Thermal insulation (in W/m²K)



U_w as low as 0.73

Sound reduction (in dB)



up to 40









PERFECT COMBINATIONS

TRUE TO STYLE. INDEPENDENT OF MATERIALS. MATCHING.

The demands on design, energy effciency and comfort of the windows increase with individual architecture. Function and design are no contradiction with Internorm. UPVC/ aluminium and timber/aluminium systems can be perfectly combined.

Outside same design - choose between UPVC or timber for the inside

If you would rather have a UPVC/aluminium window in the bathroom because of the high humidity, but would not like to miss the timber/aluminium window in the living room, then you can combine these two materials without any problems with Internorm. The design of your window and therefore the exterior design of your house always remains the same. Inside of each room you have the possibility to create your window

according to your requirements - either in UPVC or in timber.

Uniform appearance for architecture true to its style

No matter in which design style you create your house - if avant-garde, modern, elegant, playful or timeless - Internorm is offering you perfect combinability for each of these styles in the materials UPVC and timber.

Can also be combined with lift-sliding doors

You do not have to miss large-scale glazing and more light in your rooms. We are offering you lift-sliding doors in the materials UPVC/aluminium and timber/aluminium, matching the window style.

OUTSIDE - THE SAME

Aluminium

The aluminium clad on the outside adapts to the design style of your house.

INSIDE - YOUR CHOICE

UPVC

UPVC ist long-lasting, extremely easy to care for and also perfectly suitable for rooms with high humidity such as e.g. the bathroom.





Internorm





SAFE WITH SECURITY

RELIABLE. EFFECTIVE. PATENTED.



Security locking elements

All Internorm window systems are equipped with standard security. Solid, attractive, yet discreet designer locking elements in silver together with the hexagonal mushroom shaped closing bolt in the window frame lock the window.



I-tec glazing

Thanks to Internorm's patented glazing technology, the glass pane cannot be pushed out. The glass pane is glued all around into the window frame and therefore stays securely and tightly. Almost all Internorm window systems are equipped with this I-tec innovation as standard.



Concealed hardware

Concealed hardware ensures that windows cannot be levered out of their hinges and serves for discreet protection. When locking the appearance and easy cleaning.



I-tec locking

Internorm's revolutionary locking technology guarantees maximum window, flaps open and press on to all sides directly inside the frame. The window cannot be levered any longer.

Optimum security protection and maximum security for children are main requirements to be able to feel at ease within your own four walls. A considerable contribution to this feeling of comfort comes from the windows. You can protect your family effectively with Internorm's sophisticated technologies und make it difficult for intruders to gain access to your house.



Security handle

The Secustik handle with safe screening offers highest security. The patented locking mechanism protects absolutely secure against moving the lock from the outside (standard with UPVC and UPVC/ aluminium window KF 500).



Lockable handles

Lockable handles offer optimum security for children and perfect burglary protection in one. The window is locked via key or push button and cannot be opened, the inside.



Electronic sensor

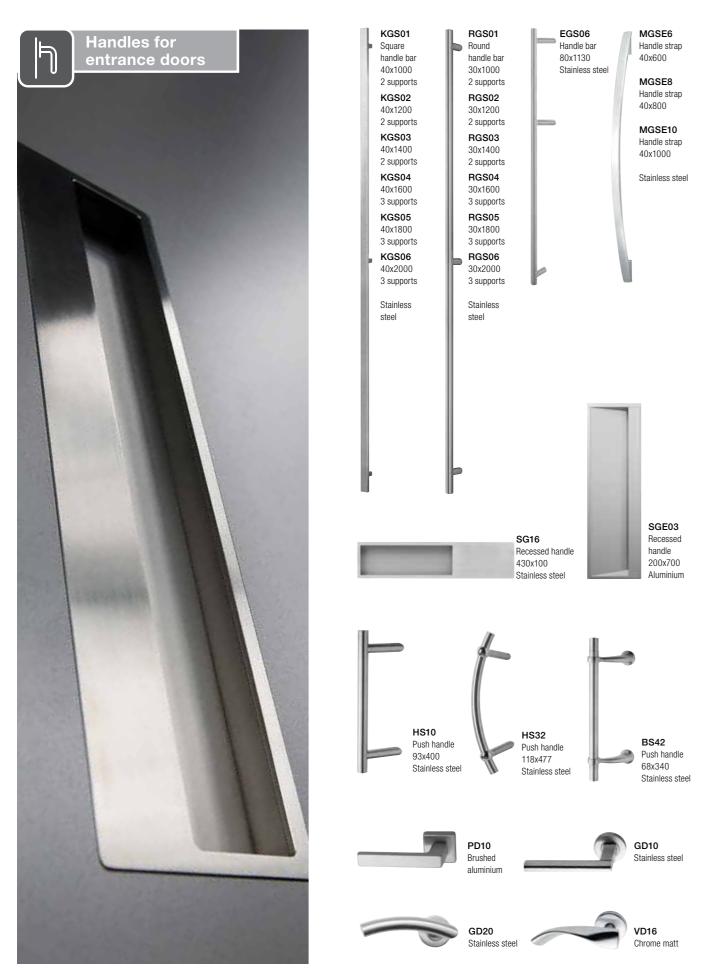
Locking sensors report reliably and inconspicuously via the I-tec SmartWindow App if and which windows or window doors are open, tilted or locked. The sensor neither from the outside, nor from can also be wired upon request and can then be combined with any customary alarm systems.



Laminated glass

Contrary to conventional window glass which splinters when broken, laminated glass does not break apart. Tear-resistant foils keep the panes together, the glass stays in the window frame and danger of injury is averted.





Please note that not every handle is available for every door series. More choice and information is available from your Internorm distribution partner.





Handle G80 p/no. 36475 Handle Softline p/no. 32447

Handle Dallas p/no. 36412

Surfaces & colours

EXTERNAL SIDE OF WINDOW

UPVC

UPVC White

Please note that not every colour is available for every window.

Due to printing and manufacturing technology colour deviations between illustrations in this brochure and original products may

Your Internorm [1st] window partner / distribution partner will gladly show you original colour samples.

- * Highly weather-resistant, except M916 (facade quality).
- ** Intensive colour appearance, however colour tolerances possible.
- *** A special highly weather-resistant powder coating is used for surface versions **HM** (highly weather-resistant standard colour), **HF** (highly weather-resistant fine structure), HFM (highly weather-resistant fine structure metallic), and HDH (highly weather-resistant timber decor colour).
- ***** HDH colours have a vibrant timber appearance being hand-finished with structure coating, however colour tolerances are possible.

ALUMINIUM ATTACHMENT CLAD

STANDARD COLOURS*



NEW: DURAxal COLOURS



hirest-COLOURS***



HF817	HFM05
HF768	HFM04
HFM11	HFM14
HFM12	HFM21
HFM13	HFM22



TIMBER DECOR COLOURS****



METALLIC DECOR



STAINLESS STEEL COLOURS

EL01 Stainless steel look matt	Stainless stee look glos
ELL AN	

SPECIAL COLOURS

A variety of design possibilities are offered by the Internorm RAL colour range (facade quality). These are the colours available for aluminium attachment clads outside and timber inside.

INTERNAL VIEW OF WINDOW

UPVC



DECOR FOILS



- * Available with KF 500, KF 410 and KV 440 in studio and home pure
- ** Available with KF 410, KF 200 and KV 440 in home soft and ambiente
- *** Only with KF 200

TIMBER

STANDARD COLOUR SPRUCE, VARNISHED



STANDARD COLOUR SPRUCE, OPAQUE



STANDARD COLOUR LARCH, VARNISHED







COLOURS HF 410 – additionally to timber standard colours available

OAK





NEW: Even timber types not usually used in window construction can be used for timber/aluminium window HF 410 as well as timber/aluminium lift-sliding door HS 330.



GLAZING

INTERNORM - AUSTRIA'S LARGEST MANUFACTURER OF INSULA-TING GLASS

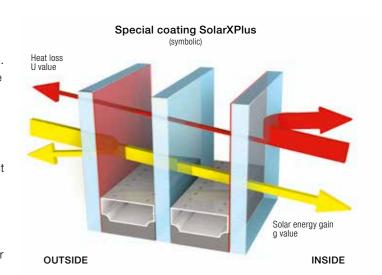
All insulating and toughened glass which is fitted into Internorm products comes from in-house production. We are independently promoting progress and aiming to satisfy the trend for innovative and highly thermally insulating glass solutions.

Thermal insulation glazing

Extremely thin precious metal coatings and precious gases such as argon or krypton are used in the cavity between the panes and ensure perfect thermal insulation. Choose triple thermal insulation glazing instead of double glazing and you can plan up to 40 % more glazing areas with the same heating costs.

NEW! SolarXPlus

The new type of coating of the glass panes lets more light and energy into your interior than other special glazing. This renders your living spaces even more appealing and lighter, it also offers excellent thermal insulation. The heat loss is therefore minimal and you can enjoy even more daylight – a key benefit especially in the Winter





SUN AND INSECT PROTECTION

COMBINABLE, INTEGRATED, MANY VARIATIONS.

The sun and insect protection systems complement the windows to a functional unit and support the design of the house facade. Combine your sun protection products with I-tec SmartWindow and enjoy the comfort of automatic functions as well as the convenient control via Smartphone or tablet.

Windows with integrated blinds: Integrated sun and privacy protection between the panes - choose between blinds, Venetian blinds or Duette® blinds, upon request with energy self-sufficient shading (I-tec shading).

Venetian blinds: Optimum control and guidance of light and warmth through adjustable slats, upon request with day light guidance RETROLux. Can be combined with insect protection.

Attachment Venetian blinds: Optimum control and guidance of light and warmth through adjustable slats. Can be combined with insect protection.

Exposed and mini exposed roller shutters: Delivered separately or completely fitted on to the window. Can be combined with insect protection.

Insect protection: Fixed, turn, sliding or pull-down flyscreen. Can be combined with sun protection.

Window shutters: Made of aluminium, with many design possibilities. Can be combined with insect protection.

SIDE ENTRANCE DOORS

Side entrance doors serve to close off unused, unheated rooms (e.g. garage, basement storage rooms etc.). Current statistics show that intruders predominantly gain access to a house via side entrances. It is therefore all the important to consider relevant security features - Internorm offers different security systems upon reque-

Side entrance doors are available in, timber/aluminium, aluminium and UPVC and offer a wide range of individual design possibilities.

TIMBER/ALUMINIUM ALUMINIUM





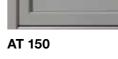


UPVC



HF 210

HF 310



KF 405







KF 200

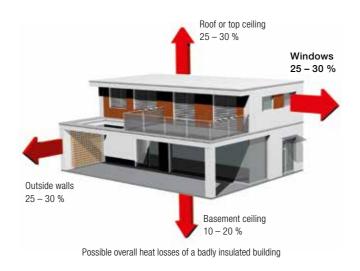




ENERGY EFFICIENT. WELCO-MING. WARM.

Highly thermally insulating window systems ensure comfort and warmth within your own four walls. In connection with a special coating for using solar radiation they virtually becomes free additional heating.

As a building can lose approximately 25 to 30 % of its energy through the windows, the thermal insulation of the windows is especially important. Through careful planning, correct positioning of the window areas (large window areas south-facing) can positively influence the energy balance of the building. The thermal insulation of the window depends on the frame material, the insulating glass and the tightness of the window. The parameter for the insulating capability of the window is the U value. The lower the value, the better the thermal insulation. Additional features such as roller shutters and window shutters can improve the U value.





SOUND REDUCTION

CALM. COMFORTABLE. QUIET.

Interference of noise is unpleasant and can, given the right intensity and duration, affect the human body in a negative way. Noise is perceived through the human ear and passed on to the brain.

Sound reduction of a window is measured in decibels. The higher the value, the better the sound reduction. Sound reduction states how much sound energy from the original sound energy is allowed to pass through. At an insulation of 10 dB 1/10 of the original sound energy passes through, at 20 dB 1/100, at 30 dB 1/1000 etc. Humans perceive a reduction of 10 dB as halving the noise. Sound reduction of a window is dependent on frame material, insulating glass, tightness of the window and the construction connection.

VOLUME	NOISE EFFECT	TYPE OF SOUND
10 dB	very quiet	Pin dropping
20 dB		Leaves rustling, clock
30 dB	quiet	Whispering
40 dB		Quiet talking
50 dB		Residential street, birds
60 dB	loud	Talking, radio
70 dB		Loud talking, street
80 dB	very loud	Heavy traffic
90 dB		Shouting, hooting
100 dB	unbearable	Circular saw
110 dB		Pneumatic hammer
120 dB		Jet plane
> 150 dB		Explosion, rocket

WARRANTIES

WE GUARANTEE YOU MANY YEARS OF PLEASURE WITH YOUR INTERNORM WINDOWS.

As Europe's leading and largest active international window brand, Internorm looks back on more than 85 years of experience in trendsetting window and door solutions of exceptional reliability and longevity. This, we can guarantee you.

Warranty



- · 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 foilcoated 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 profile 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



- PVD coated door handles are guaranteed against corrosion if there is no mechanical
- No unnatural colour changes or surface cracks due to weather influences in door fllings. There is no guarantee for changes in the surface appearance as a result of dirt.

Warranty



- · 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 profles made of aluminium.
- The function of the window or door fitting is guaranteed, provided that the Internorm installation and maintenance guidelines have been adhered to.

Assurance



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 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.

WARRANTIES/EXCERPT:

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 [1st] window partner / distribution partner.

NATIONAL AND INTERNATIONAL CERTIFICATIONS CONFIRM THE HIGH QUALITY OF OUR PRODUCTS.

Our know-how gives you the security that you receive best service for your money. The most modern production facilities and strictest quality controls ensure quality which is setting standards all over Europe. Awards of independent test institutes from all over Europe are confirming this.









Technology





Austrian State Emblem

Austrian Quality Label

Technology Rosenheim













Traffic, Innovation and

Technical University

Minergie® Certificate



for Environment









Energy Globe (Projekt Schiestlhaus)

Climate Association Town Traun







IMPRINT

Publisher: Internorm International GmbH, Ganglgutstraße 131, A-4050 Traun Photos: Studio Hoflehner, A-4600 Wels | studio46, A-4863 Seewalchen am Attersee Isa Stein, Studio für Kunst and Architektur, A-4020 Linz | Internorm International GmbH, A-4050 Traun

Design and Litho: Internorm International GmbH, A-4050 Traun

Print: Friedrich VDV, A-4020 Linz

Subject to technical changes, layout and printing errors. Internorm International GmbH is an ARA licence partner: Our licence number is 4477.

Printed on chlorine-free, environmental-friendly paper.

Internorm

HEAD OFFICE

Internorm Windows UK Ltd

Unit D, Colindale Business Park 2-10 Carlisle Road, NW9 0HN, London Tel.: +44 (0) 208 205 9991 Fax: +44 (01) 208 905 8744

Email: office@internorm.co.uk