

**GERMAN WINDOWS**



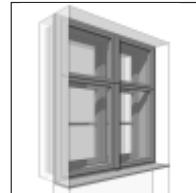


**Malaysian-German Chamber  
of Commerce and Industry**  
Member  
Deutsch-Malaysische  
Industrie- und Handelskammer



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## **VISIT OUR EXPERIENCE CENTRE**

***...before making final decisions.***

Windows and Doors are the important long- term investment you will ever made.

In GERMAN WINDOWS we believe in technology. We incorporate highest standard materials, and design our products based on latest engineering knowledge.

GERMAN WINDOWS strive to ensure our clients receive long lasting and technically perfect products.

Make an appointment with us or receive your personal access code to see your WINDOWS & DOORS at our EXPERIENCE CENTRE!

**SEE IT - TOUCH IT- FEEL IT**







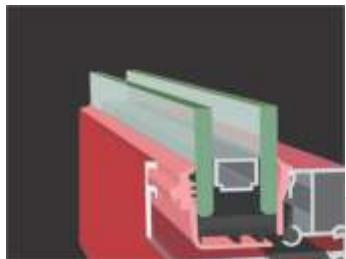
greenteQ

**WINK  
HAUS**

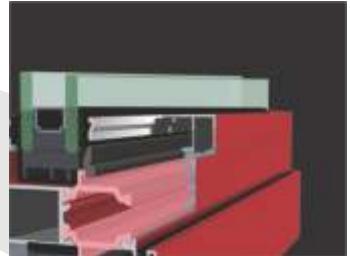


**HAUTAU**

**GERMAN EXPERTISE**



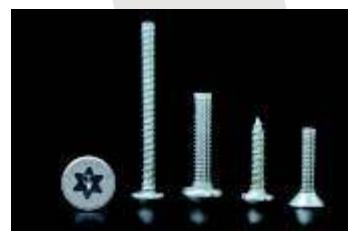
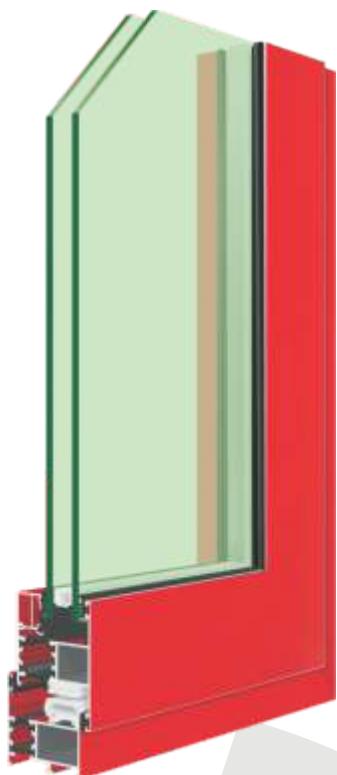
Glazing carried by blocks,  
preventing glass  
breakages



Optional fibre glass strips  
for more energy saving



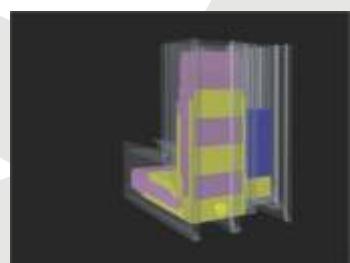
GERMAN Hardware  
for LIFE LONG  
smooth operations



Special screws  
for corrosion free  
fastening



Heavy duty friction  
hinges for larger windows



Glued and sealed corners  
for maximum watertightness  
and unmatched durability



## **GERMAN WINDOWS,**

the market leader in European performance windows and doors, provides customized solutions that **soundproof, dustproof, weatherproof and secure** your property.

Specially designed to our **tropical climatic and environmental** conditions.





Make your home  
more secure now



Turn Windows



## BENEFITS

## WINDOWS

For the production of our GERMAN WINDOWS aluminium windows, we use the complete knowledge of GERMAN window system developers. We combine the newest aluminium window technology with the highest German manufacturing standards for precision.

German Windows profiles are designed for acoustic insulation, cutting out excessive sound and the harmful effects of noise. Our windows are particularly effective in buildings in high traffic, built up urban environments and close to the roadside.

## FEATURES

- » Inward or outward opening
- » Side hung, top hung, tilt & turn
- » 50 mm wide profile sections, up to 6 mm thick window sections
- » always glazing from inside
- » Manufactured to your bespoke sizes and specification
- » Double chamber profile design



## TURN WINDOW SERIES



SOUNDPROOF  
(OUTWARD)



ENERGY SAVING  
(OUTWARD)

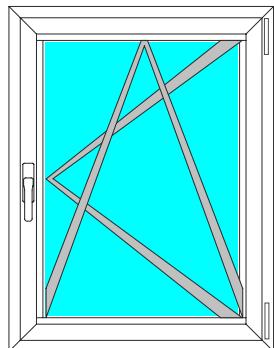


TILT & TURN  
(INWARD)

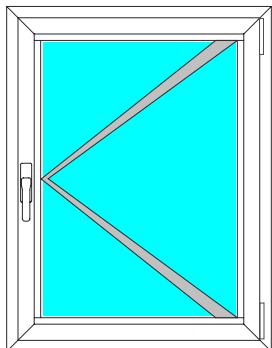


## TURN WINDOW TYPES

### Inward opening

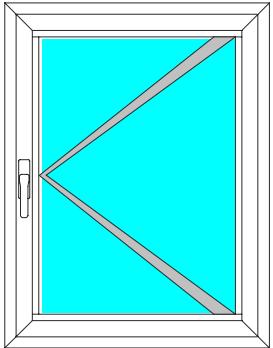


Tilt and Turn

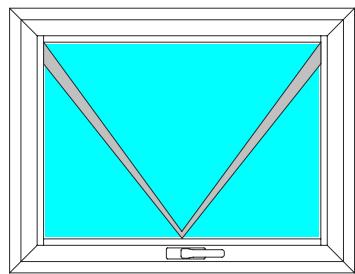


Turn only

### Outward opening



Side hung Casement



Top hung Casement

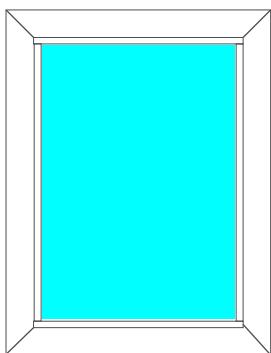
Inward opening, especially Tilt and Turn windows, are the most modern and popular windows around the world.

They are high secure, easy to clean, and available in a lot of variations and designs. Our Tilt and Turn windows are designed with up to three incorporated sealing levels. ITALY made GIESSE hardware allows sash weight up to 150 kg.

Our outward opening window are designed to have excellent performance and functionality during different season through the year.

Thermally break profiles are available. Two layer gaskets and special developed glazing ensure air tightness and energy efficiency. ROTO German made Multi- Point locking is our standard.

### Fixed glazing

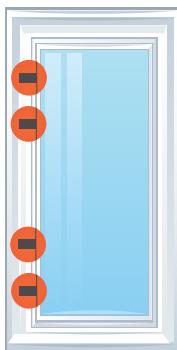


## SECURITY OPTIONS

## WINDOWS

German Windows are designed to be masterpieces in security window technology . Our innovative technical refinements will stop any burglary attempt and protect you from unwelcome visitors. The fitting groove, for example, is positioned on the internal side of the sash, which makes it essentially impossible to force the window open. Special developed heavy duty locking plates are our standard.

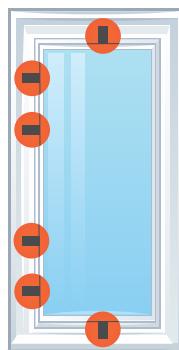
### Standard Level



For condominium units and small windows.

- » All of the frame security features described above
- » Bi-directional multi-point locking
- » adjustable locking bolts every 30 cm at handle side
- » Exposed Window handle

### High Security Level



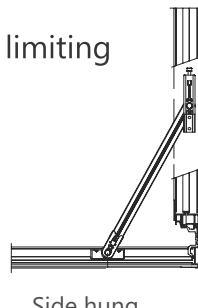
For homes with high security demands especially for single and linked houses.

- » all of the features described in Standard Level
- » additional locking bolts at top and bottom

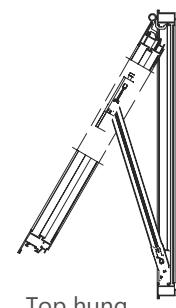
### Turn restrictor

Restrictor are available to ensure child safety by limiting the window opening angles.

Used in Top Hung windows they support heavy sashes in opening position.



Side hung



Top hung

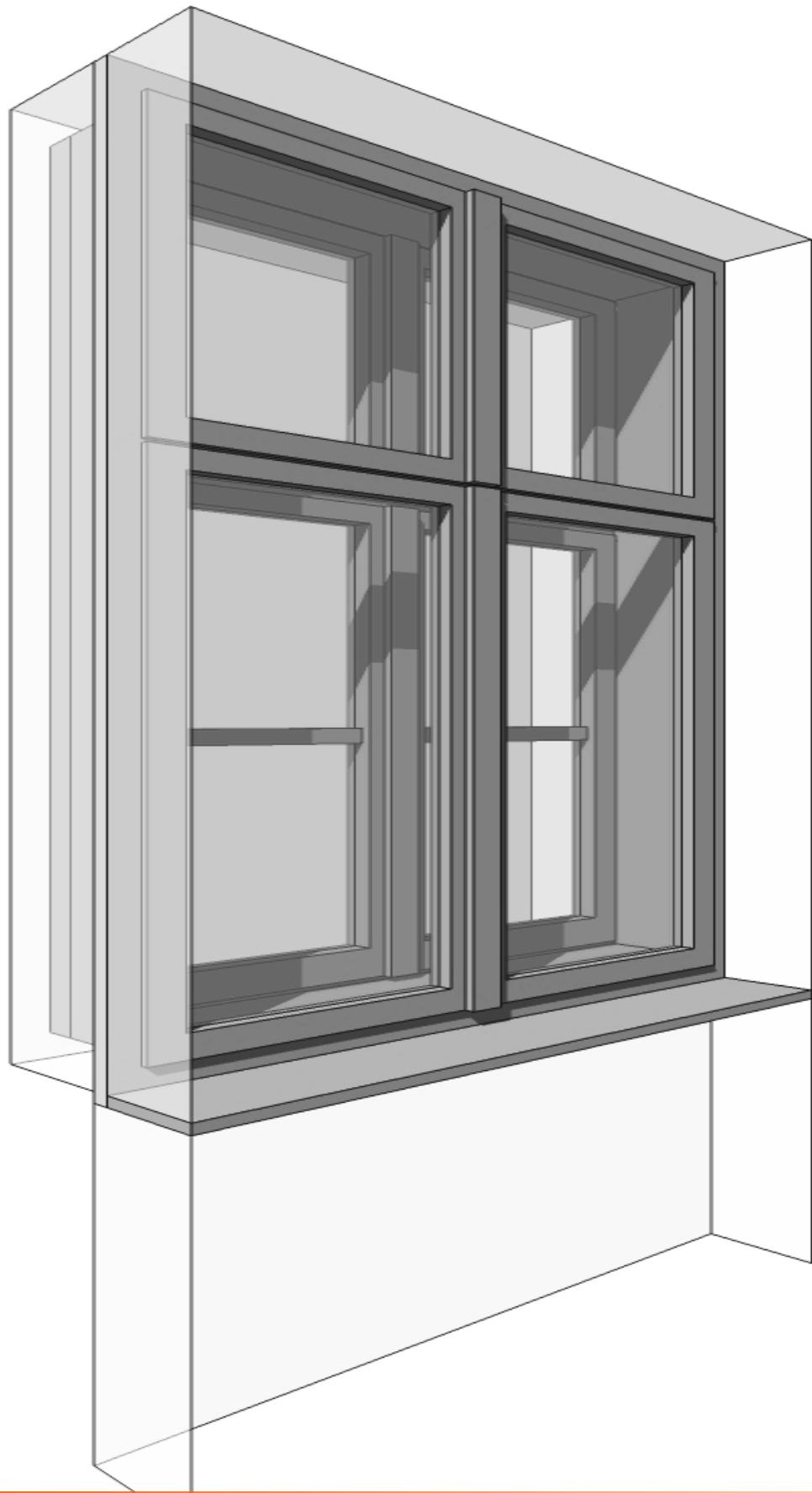
77858

### Laminated security glass

German Windows offers exclusively special developed LAMINATED GLASS.

This is a type of safety glass that holds together when shattered. In the event of breaking, it is held in place by an vinyl interlayer, between its two or more layers of glass. The interlayer keeps the layers of glass bonded even when broken.





**COMFORT WINDOW**



## DOUBLE LAYER GLASS - GLASS DESIGN

## WINDOWS



EXTRAORDINARY  
Soundproofing by two  
combined, extra thick sashes

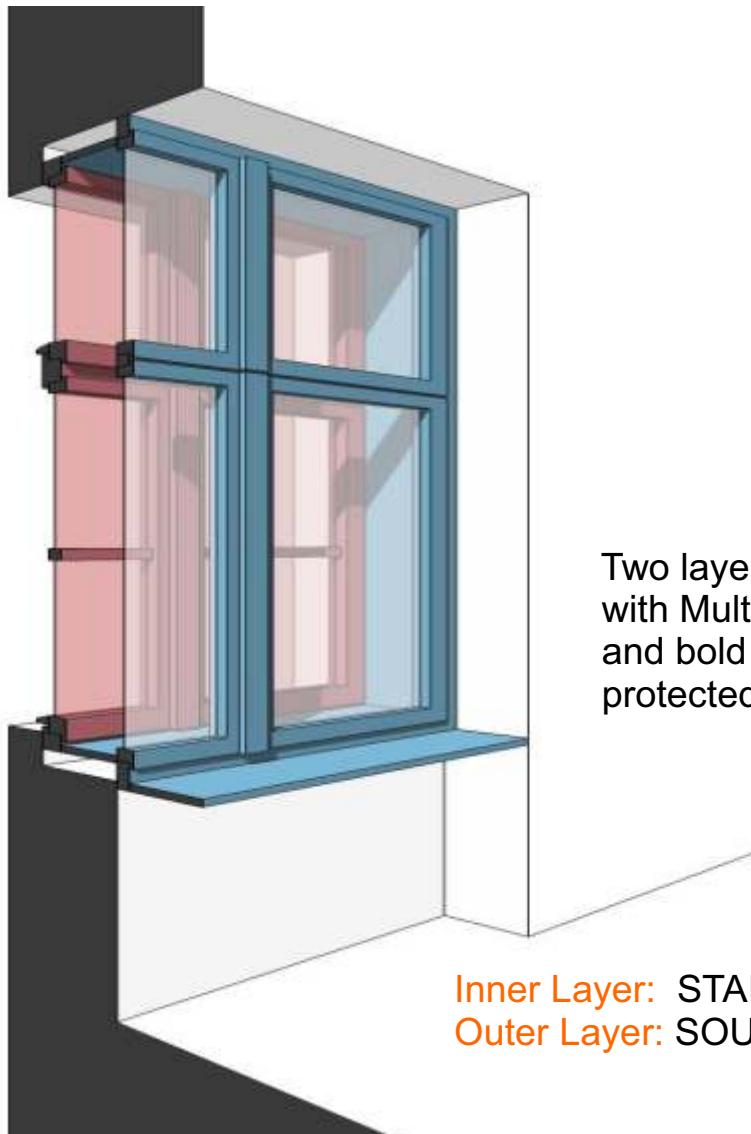
Inner Layer: SOUNDPROOF GLASS  
Outer Layer: SOUNDPROOF GLASS

### The advantages

- ▶ Multi- chamber profiles, with in total 90 mm sash thickness can fit up to 35 mm solid Glass.
- ▶ Additional 100 mm Air- Gap in- between the two Glass panes for Extraordinary soundproofing
- ▶ Two windows in one combined system, elegant design and superior performance

## DOUBLE LAYER GLASS - MESH DESIGN

## WINDOWS



### The advantages

- Strongly made 120 mm thick outer frames combined with two special designed burglary- proofed sashes guarantees home protection at the best
- Pease of Mind even if your Window remains open



## DESIGN WINDOW HANDLE



75018

### "BERLIN" Design Window handle

- White
- Silver
- Black
- Dark brown

**SecuForte® function** (Pg.36)



75020

### "FRANKFURT" Design Window handle

- White
- Silver
- Dark silver
- Dark brown
- Bronze
- Black (Roto design)



75019

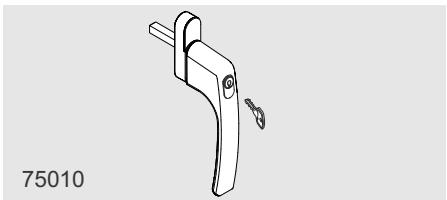
### "HAMBURG" Design Window handle

- White
- Silver
- Dark silver
- Black



## HANDLE FOR SPECIAL DEMANDS

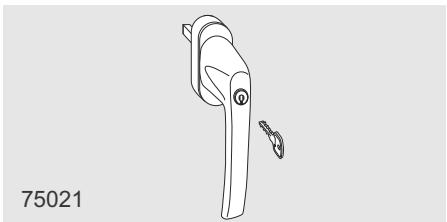
## WINDOWS



75010

### Casement Handle with key

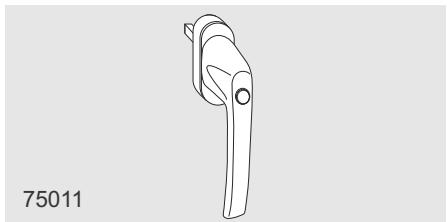
- White
- Silver
- Black
- Champagne



75021

### Q - German Window handle with key (inward)

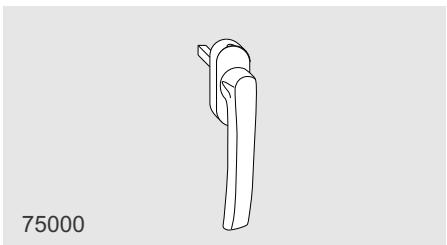
- White
- Silver
- Dark brown
- Bronze



75011

### Q - German Window handle with knob (inward)

- White
- Silver
- Dark brown



75000

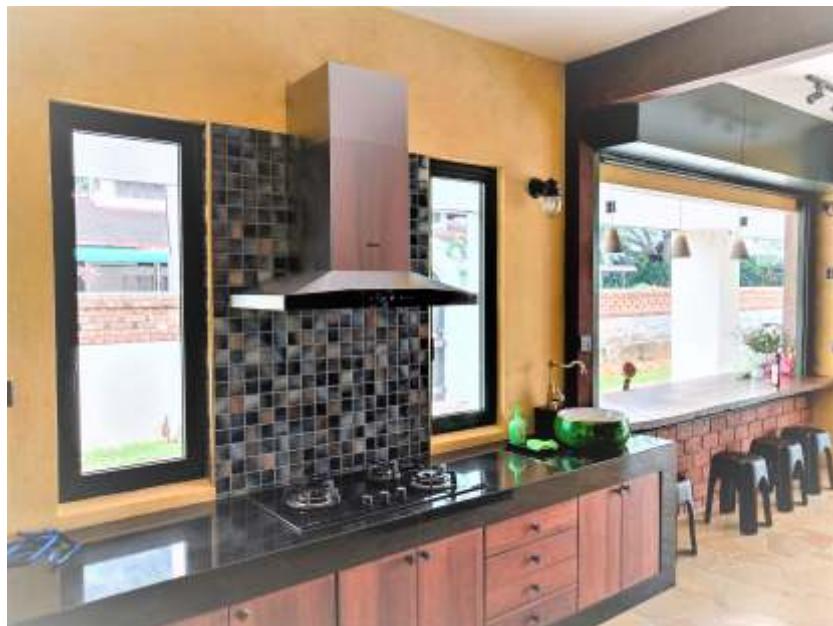
### Q - German Flat handle

- White
- Silver
- Black
- Dark brown



*Unbeatable*  
Reliability





**INNOVATIVE  
PRODUCT  
AWARD**

**HOMEDEC®**  
HOME DECOR AND DESIGN EXHIBITION  
MALAYSIA



Lifting & Sliding



## BENEFITS

## LIFT & SLIDING

Our lifting & sliding doors are known for their ability to open up extra large rooms and spaces with effortless and feather light operation. The unparalleled quality of materials, mechanisms, and methods of manufacturing are means of achieving arguably the best performing sliding door systems available in the greater Asian markets.



## FEATURES

Turning the handle by 180 degrees will raise the door off its track to reduce friction and to allow easy and smooth movement, even for very large and heavy elements.

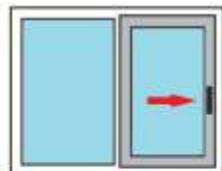
Once the sliding door is in your desired position, simply return the handle and the sliding door will securely settle back in the track.

This ingenious system closes tightly and is soundproofed. Available in full aluminium or thermal break aluminium profiles. **Brilliant!**

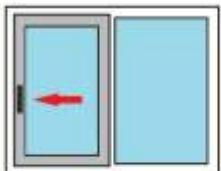


## DOOR ARRANGEMENTS

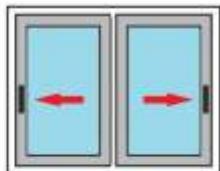
Design 211 left



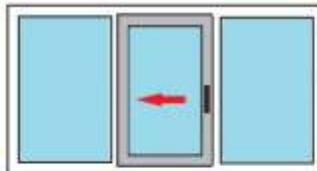
Design 211 right



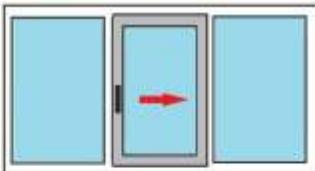
Design 220



Design 321 left



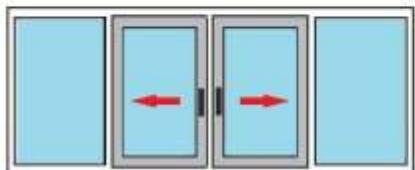
Design 321 right



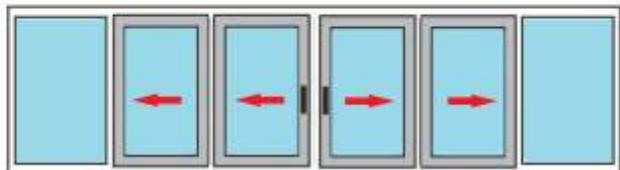
Design 321 middle



Design 422 left / right



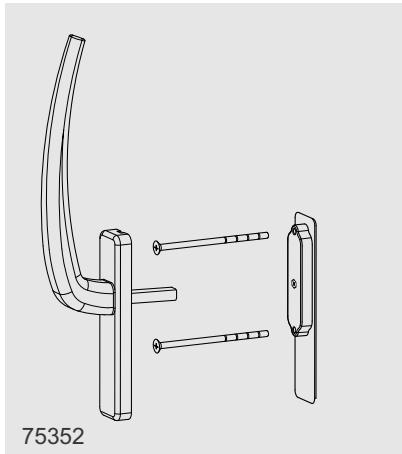
Design 642 left / right



SCAN ME

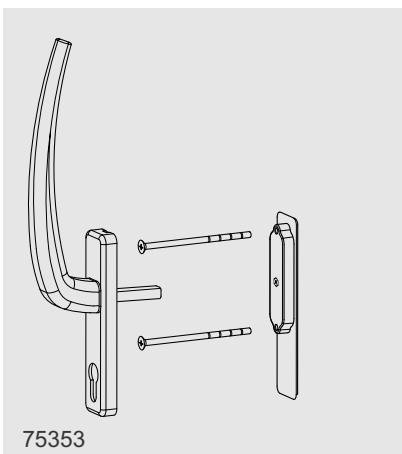


## LIFT & SLIDE DOOR HANDLE TYPES



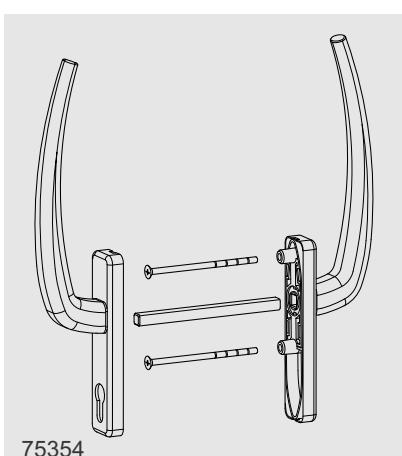
### Inner Handle

- White
- Silver
- Black
- Dark brown
- Bronze



### Inner Handle with Half Profile Cylinder locking

- White
- Silver
- Black
- Dark brown



### Inner / Outer Handle Profile Cylinder locking

- White
- Silver
- Black
- Dark brown



75012

### SLIDING DOOR handle long

- White
- Silver
- Dark silver
- Dark brown







# Sliding & Folding



## BENEFITS

Our folding doors create an open, flexible, modern space for both living and working environments. They were designed to the highest specifications by incorporating both German expertise with our own unmatched experience in bifold construction.. We believe that this system is one of the best all around bi-folding door systems available on the global market. They are strong, soundproofed and secure.

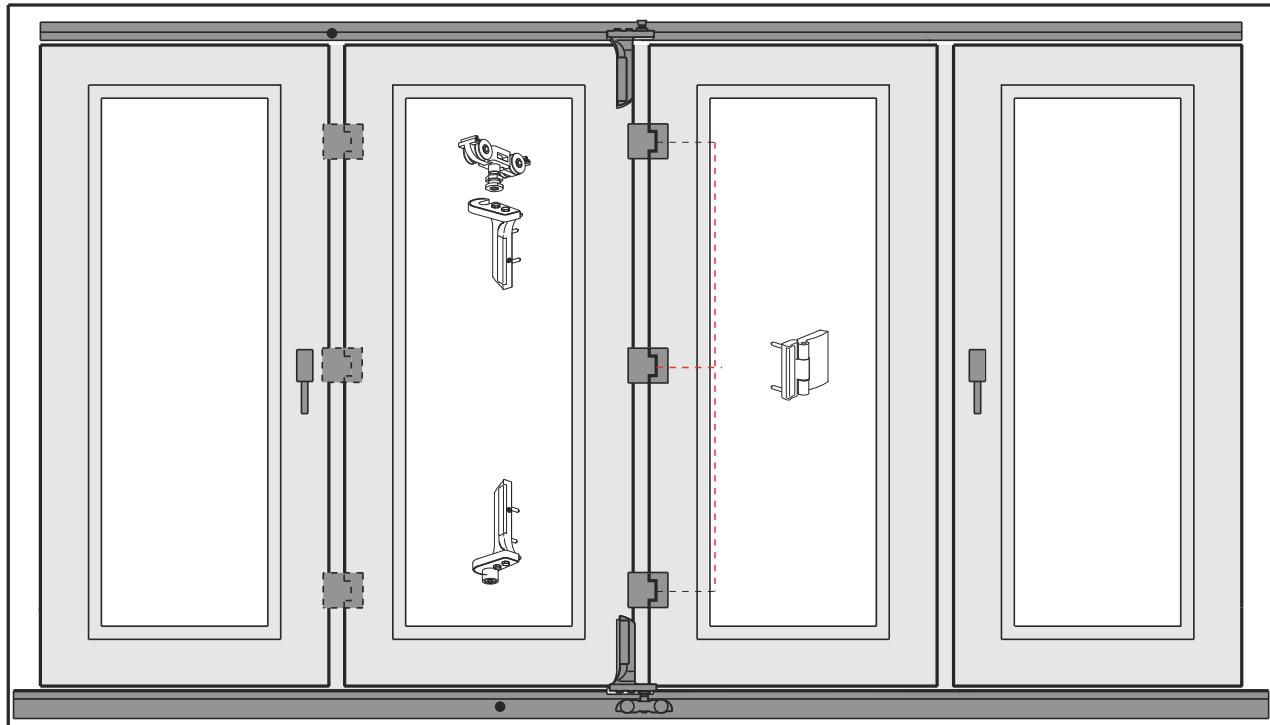
## SLIDING & FOLDING

## FEATURES

- » German Made SIEGENIA hardware
- » 1.6 mm high grade full or thermal break aluminum profiles
- » Overlapping sashes for improved water tightness
- » EPDM rubber gaskets (no brush seals)
- » Sash weight up to 80 kg
- » Needle bearing rollers for easy operations
- » Dimensions up to 6000 mm by 3000 mm



**SIEGENIA®**  
SOLUTIONS INSIDE



## DOOR ARRANGEMENTS

\* red highlighted NOT available for “Security Folding”

Diagram 220

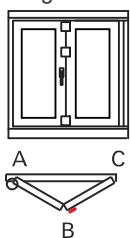


Diagram 330

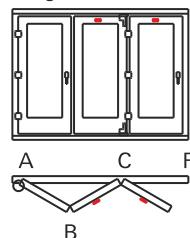


Diagram 321

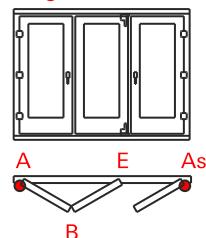


Diagram 431

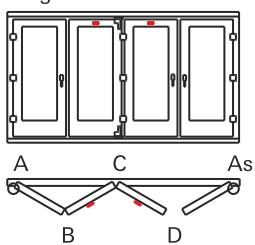


Diagram 532

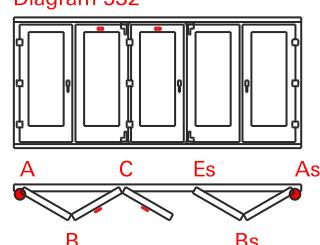


Diagram 541

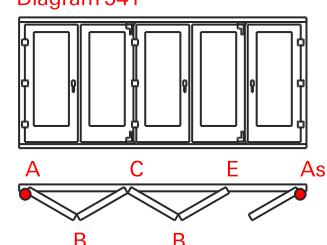


Diagram 550

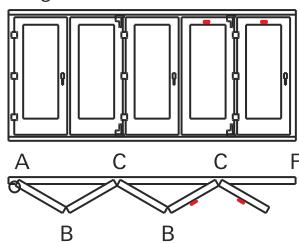


Diagram 633

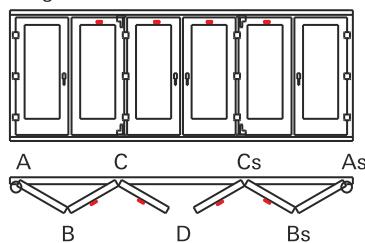


Diagram 651

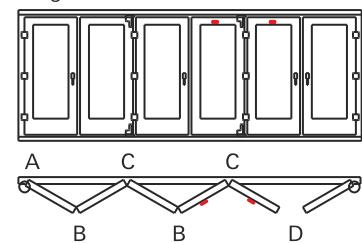


Diagram 743

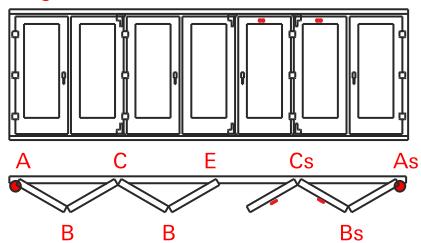


Diagram 761

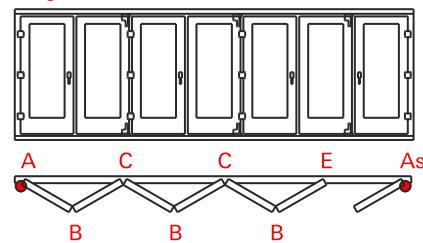


Diagram 770

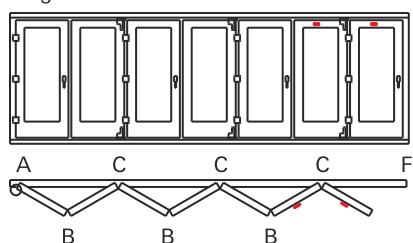
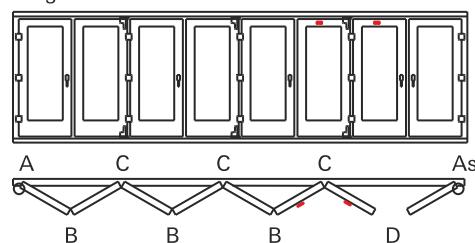


Diagram 871



## DESIGN FOLDING HANDLE



75018

### "BERLIN" Design Window handle

- White
- Silver
- Black
- Dark brown

## SecuForte® function (Pg. 36)



75020

### "FRANKFURT" Design Window handle

- White
- Silver
- Dark silver
- Dark brown
- Bronze
- Black (Roto design)



75019

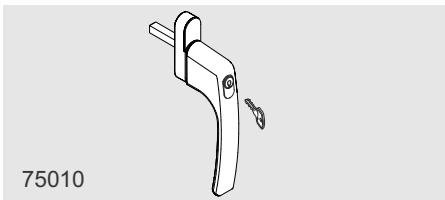
### "HAMBURG" Design Window handle

- White
- Silver
- Dark silver
- Black



## HANDLE FOR SPECIAL DEMANDS

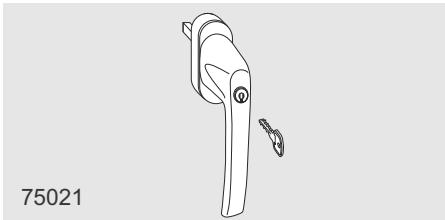
## SLIDING & FOLDING



75010

### Casement Handle with key

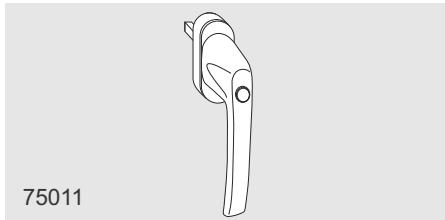
- White
- Silver
- Black
- Champagne



75021

### Q - German Window handle with key (inward)

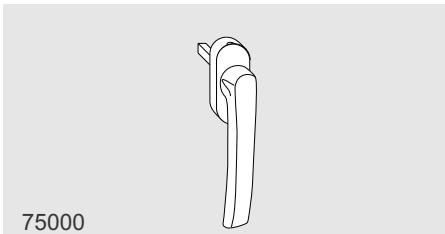
- White
- Silver
- Dark brown
- Bronze



75011

### Q - German Window handle with knob (inward)

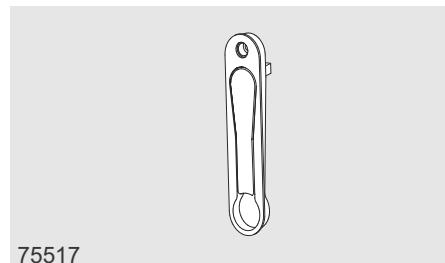
- White
- Silver
- Dark brown



75000

### Q - German Flat handle

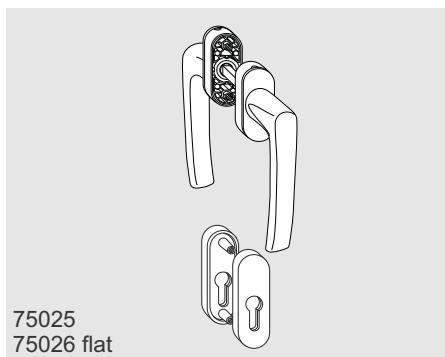
- White
- Silver
- Black
- Dark brown



75517

### Pop-up handle for Security Folding

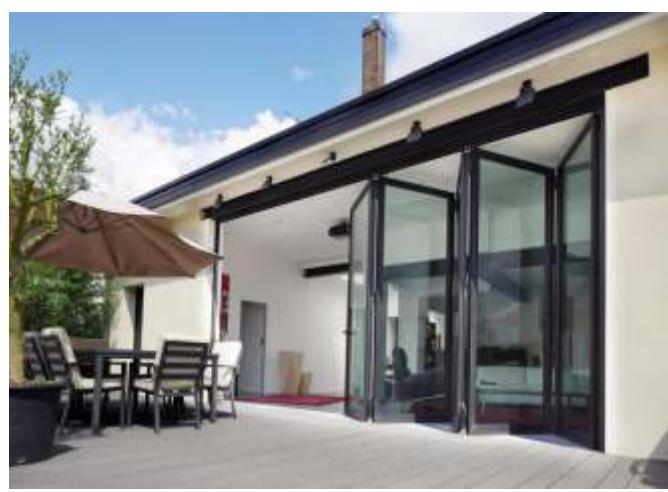
- White
- Silver
- Black
- Dark brown



75025  
75026 flat

### Q - Balcony handle set with Profile Cylinder

- White
- Silver
- Dark brown





Security Sliding



## BENEFITS

## SECURITY SLIDING

German Windows proudly presents the industry leading sliding solution for Windows and Doors. The system is attractive and slender, yet secure and robust to house even a double glazed unit weighing in up to 300kg. Despite these large glazed areas, the door system is manufactured and engineered to such a level that it glides at the lightest touch.

## FEATURES

- » Stainless steel made Multi- Point locking
- » 2 mm high grade aluminum profiles
- » operated by exposed window and door handles
- » Highly secure
- » Sash weight up to 300 kg for doors, 60 kg for windows
- » Sash fits glazing up to 24 mm thickness

**Mosquito netting or Stainless steel wire mesh can be integrated**



**Ungel**  GERMANY



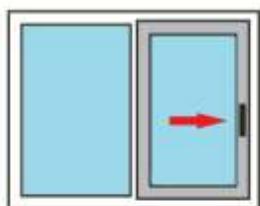
Security Sliding Window with double track



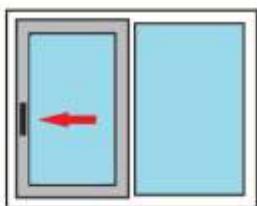
Security Sliding Window with Stainless Steel Mesh

## SLIDING WINDOW and DOOR ARRANGEMENTS

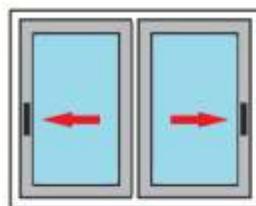
Design 211 left



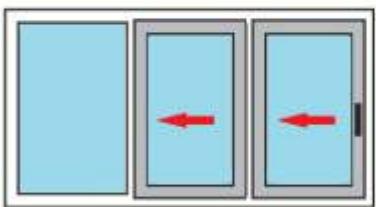
Design 211 right



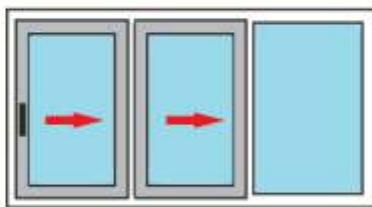
Design 220



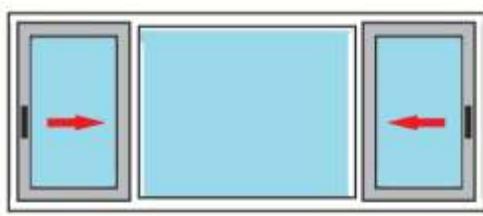
Design 321 left



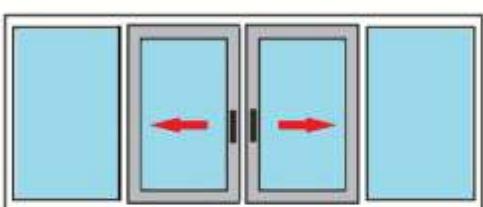
Design 321 right



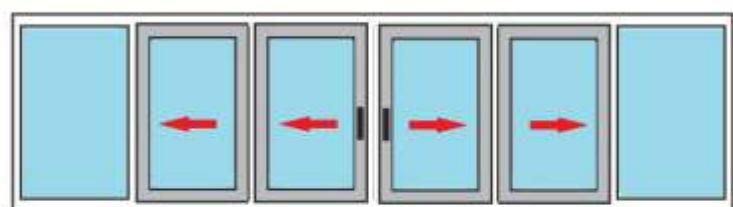
Design 321 middle



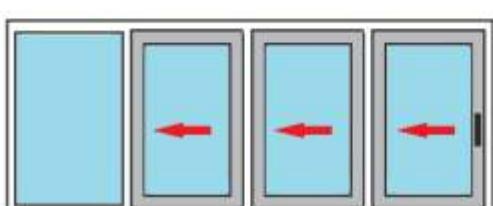
Design 422 left / right



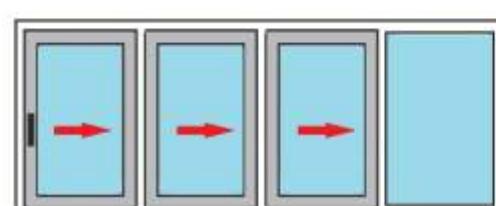
Design 642 left / right



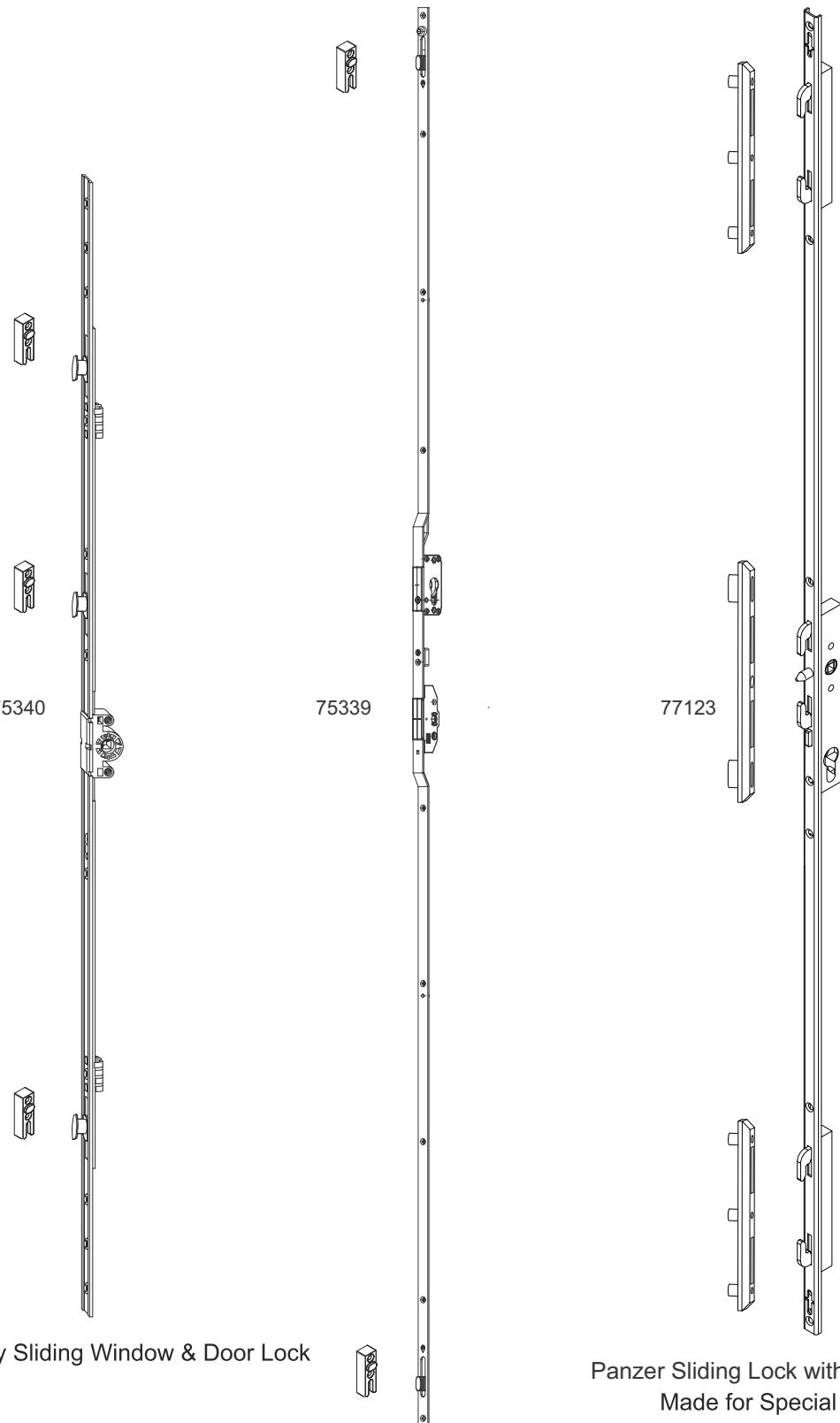
Design 431 left



Design 431 right



## WINDOW and DOOR LOCKINGS



Security Sliding Window & Door Lock

Security Sliding Door Lock with Profile Cylinder

## SECURITY SLIDING

Panzer Sliding Lock with Profile Cylinder  
Made for Special Demands

## DESIGN FOLDING HANDLE



75018

### "BERLIN" Design Window handle

- White
- Silver
- Black
- Dark brown

## SecuForte® function (Pg. 36)



75020

### "FRANKFURT" Design Window handle

- White
- Silver
- Dark silver
- Dark brown
- Bronze
- Black (Roto design)



75019

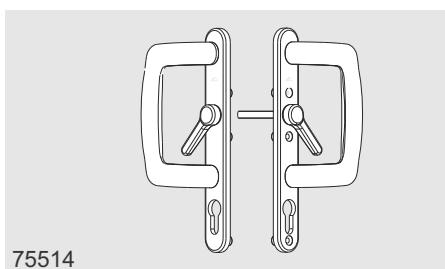
### "HAMBURG" Design Window handle

- White
- Silver
- Dark silver
- Black



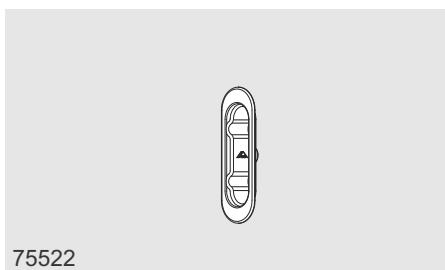
## DOOR HANDLE TYPES

## SECURITY SLIDING



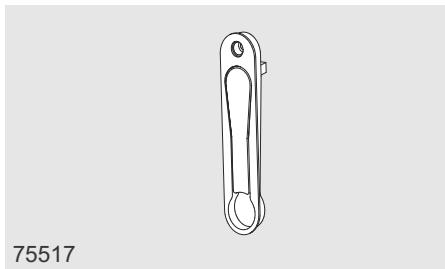
Pull handle internal / external with profile cylinder

White  
Silver  
Black  
Dark brown



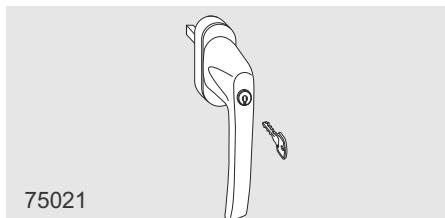
Finger Pull handle

White  
Silver  
Black  
Dark brown



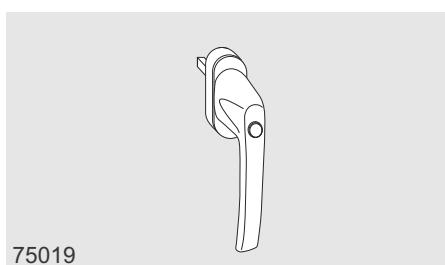
Pop-up handle

White  
Silver  
Black  
Dark brown



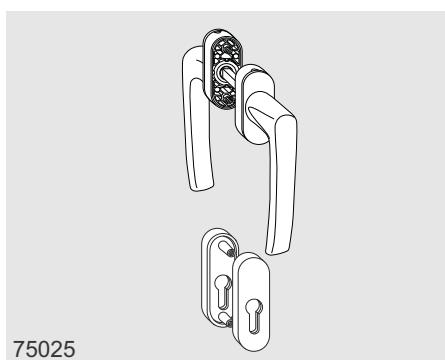
Q - German Window handle with key (inward)

White  
Silver  
Dark brown  
Bronze



Q - German Window handle with knob

White  
Silver  
Dark brown



Q - Balcony handle set with Profile Cylinder

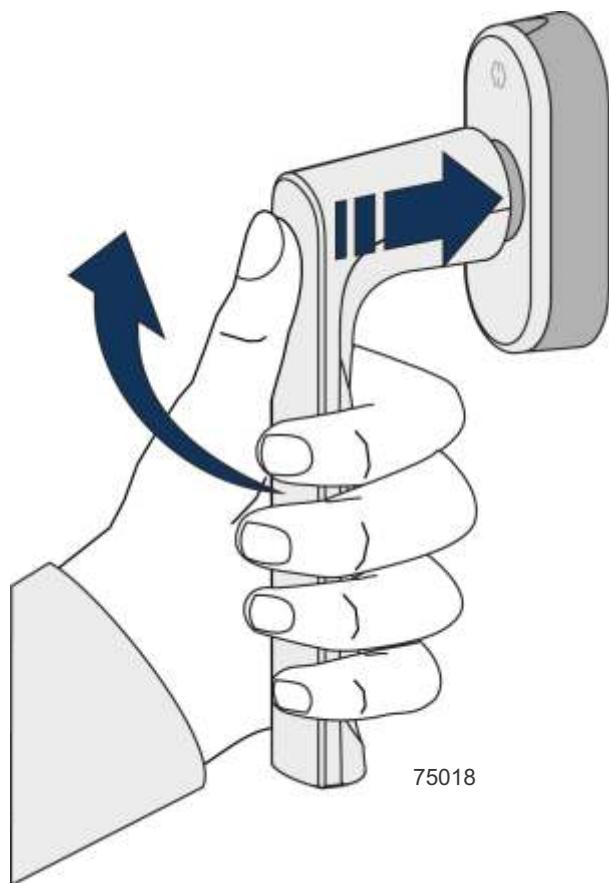
White  
Silver  
Dark brown



## SECUFORTE DESIGN "BERLIN"

With our BERLIN Handle Series we introduce “SecuForte ®”, a completely new standard in burglary resistance.

When the window is closed, the handle is uncoupled from the window gear. This means the window is automatically locked.



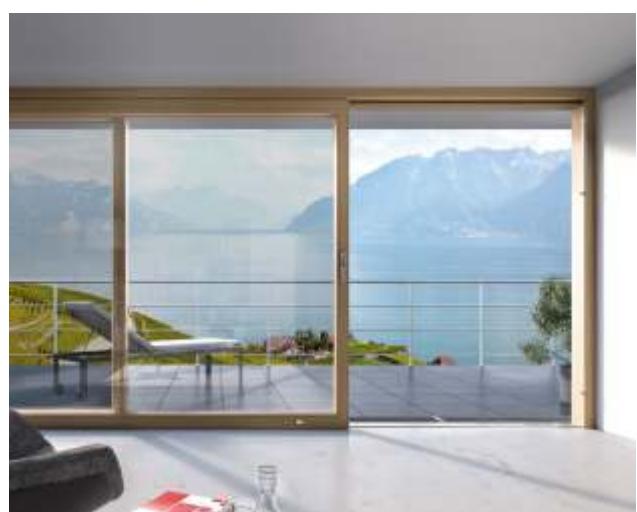
Opening from the inside is only possible by pushing the handle in the direction of the rosette.



### The advantages

- ▶ Protection against break-ins by piercing the glass seal, drilling the frame or manipulating the hardware
- ▶ Automatic locking function when the window is closed ( $0^\circ$ ) or when tilted ( $180^\circ$ )
- ▶ Child save operations





# INNOVATIVE PRODUCT AWARD

HOMEDEC®  
HOME DECOR AND DESIGN EXHIBITION  
MALAYSIA



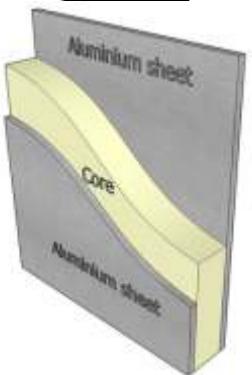
Security Doors

# *Endless design options*



*What impresses the most...?*

- GERMAN made Hardware
- Corrosion free aluminium panels
- Security Glazing's with 22 mm thickness





# Multi-

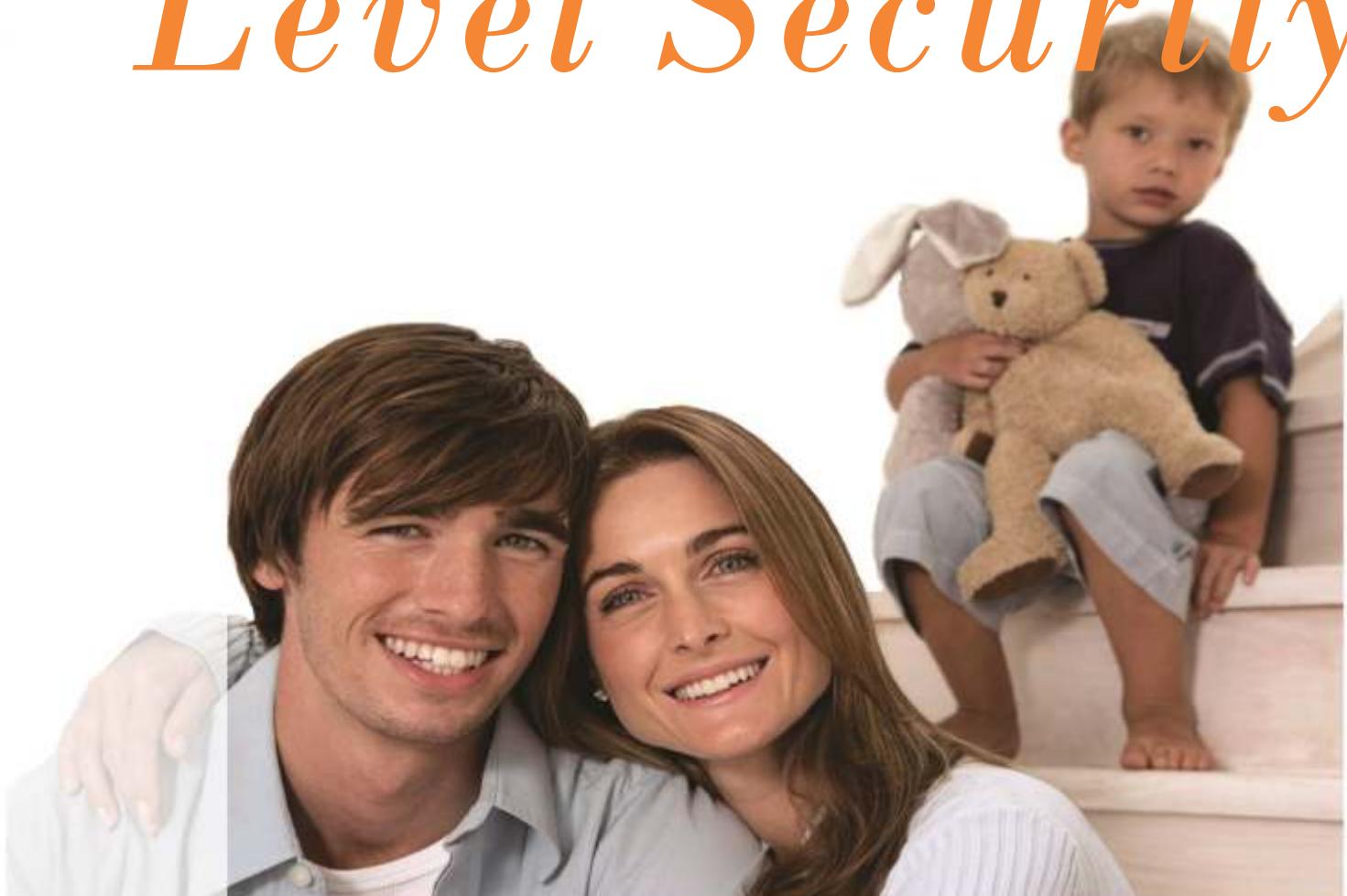
While most people keep their valuables at home, a proper security is often neglected. Burglaries are one of the most common problems that often result in unrecoverable valuables.

We offer security levels up to the highest international Standard. By selecting the right hardware, glass and locking options.

# Features



# *Level Security*



**Secured by Design**



**Official UK Police Security Initiative**

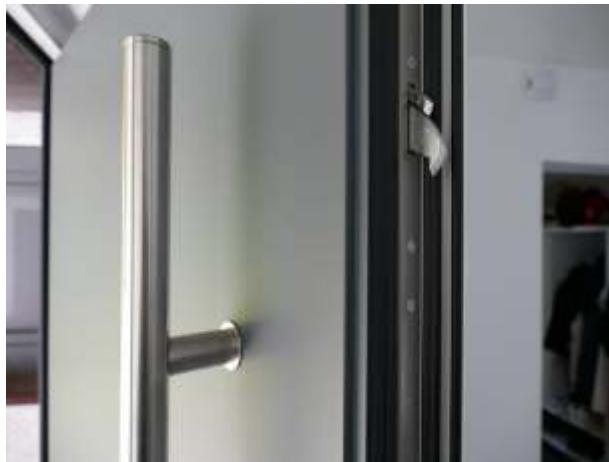
## BENEFITS

German Doors use the natural strength of modern aluminum to provide maximum glass and light. They are strong, corrosion resistance and secure with a full range of quality hardware and high-security multipoint hook locking.

These doors are highly versatile and can be adapted to a wide range of applications, including residential housing, office entrance doors, and much more.

## FEATURES

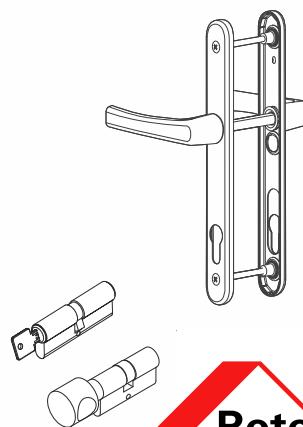
- » German Made hardware
- » Single or double doors, which can open in or out.
- » 2 mm high grade aluminum profiles
- » Transoms, mullions and insulated panels are also available to help create individual yet still practical designs
- » Highly thermally insulated
- » Sash weight up to 120 kg
- » Different hardware options & high security multipoint locking
- » Excellent closing performance



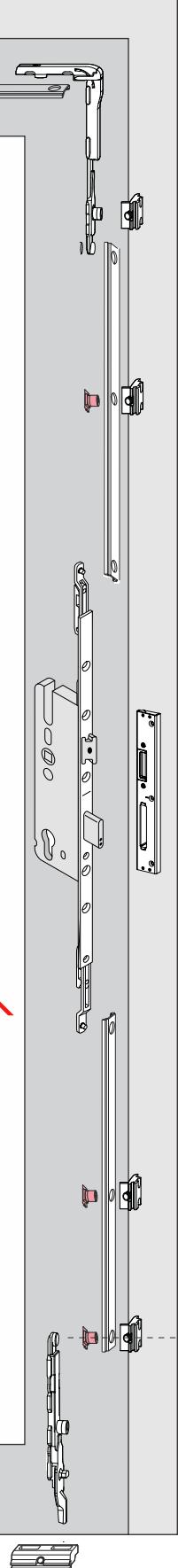
## LEVER operated ROLLER CAM LOCK

## SECURITY DOOR

With Latch and Bolt and up to **8 additional adjustable closing points**, this locking version offers exceptional soundproof performance and extraordinary security against attempted break.

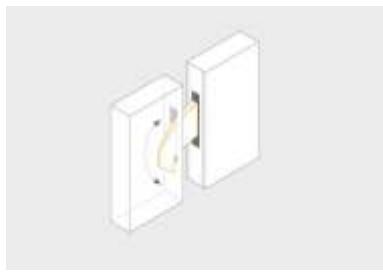


OPTIONAL:  
SHOOT  
BOLT



## Automatic operated HOOK LOCK

Closing the door behind you as soon as you enter a dwelling gives immediate full security and reduces the risk of anyone trying to enter immediately behind you.

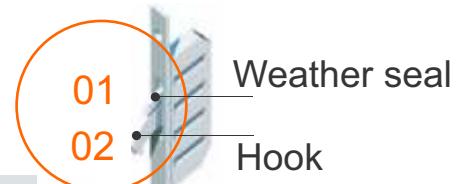
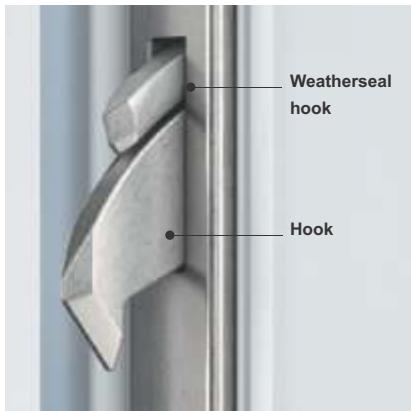


This locking requests pull handle at the outside.

01

The new duo hook.

The new automatic multi-point locking system provides massive hooks, which automatically extends without the need for action by key. That way the door is already firmly locked when you close it and break-ins are hindered. Combined with the expertly designed weatherseal hook, the door sash is held even more firmly in its position, thus providing protection against rain and dust.



That's new!

All advantages at a glance.



02

The improved tight gasket seal.

Thanks to the dynamic contact pressure of the newly developed weatherseal hook, doors are still flush and retain their seal even after years of use. The door retains its smooth action and can be unlocked with minimal application of force. **Keeps rain and dust outside!**

**WINK HAUS**  
Always precise





## autoLock AV3.

**Simply secure thanks to the massive hook.  
Recommended by the UK crime investigation department.**

If you have ever rushed to an appointment and later realised that you have not locked the door to your home, you can put your mind at ease. **AutoLock AV3** locks the door behind you automatically – secure and tight. Thanks to the massive **hook**, which engages without pressure or the need to turn a key, the door is always securely locked.

## HARDWARE OPTIONS



75022

### Lever / Lever handle with profile cylinder

- White
- Silver
- Dark brown
- Dark silver
- Black



75024

### Lever handle on Rose with profile cylinder

- White
- Silver
- Dark brown
- Stainless Steel



75023

### Lever / Pull handle with profile cylinder

- White
- Silver
- Dark brown



75027

### Lever / Knob handle with profile cylinder

- White
- Silver
- Dark brown
- Champagne

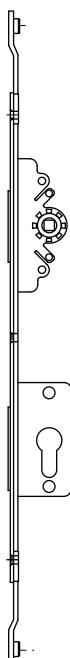


20007

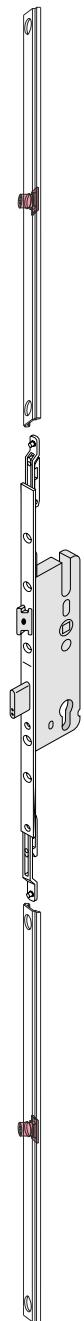
### Outside Pull Handle / Oval Escutcheon

- 600 mm, stainless steel
- 1000 mm, stainless steel
- 1800 mm, stainless steel

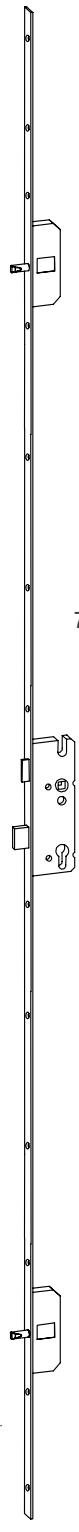
# SECURITY DOOR



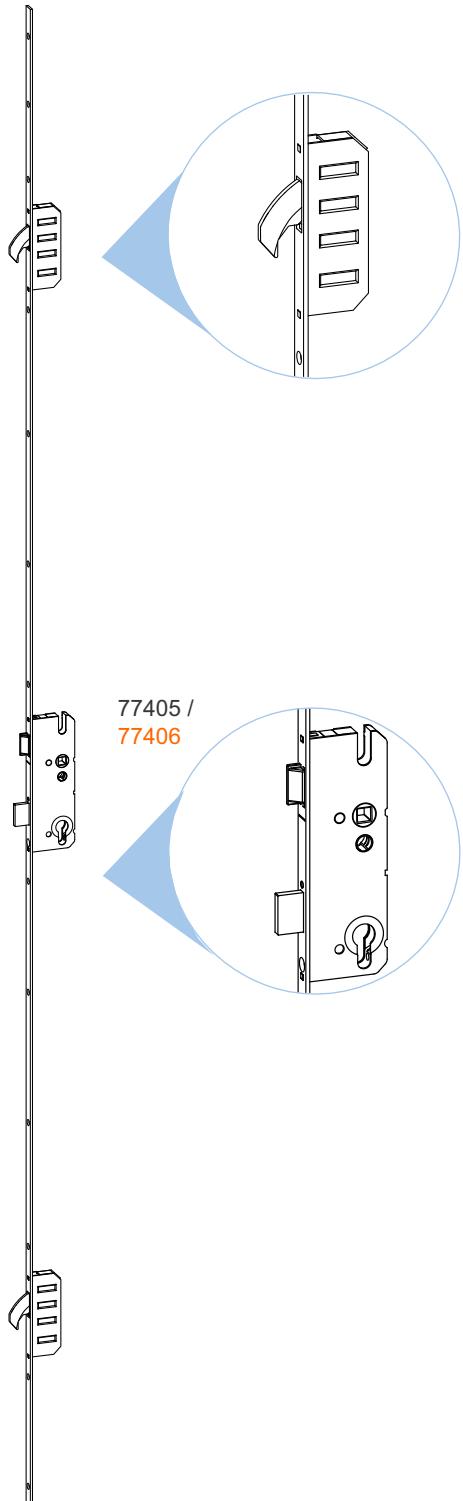
Balcony Door Lock



Lever operated Security Cam Lock



Lever operated Security Hook Lock - or -  
**Key operated Security AUTOMATIC Lock**



Key operated Security Bolt Lock

## HARDWARE OPTIONS



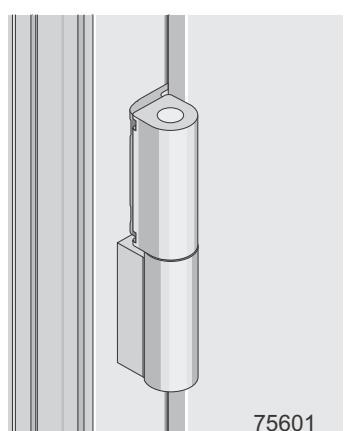
**Turn Hinge short / up to 90 kg sash weight**

White  
Silver  
Powdered



**Butterfly Hinge / up to 120 kg sash weight**

White  
Black



**Turn Hinge long / up to 120 kg sash weight**

White  
Silver  
Dark brown

 **Dr. Hahn®**  
TÜRBÄNDER. MADE IN GERMANY.



**Profile double cylinder**

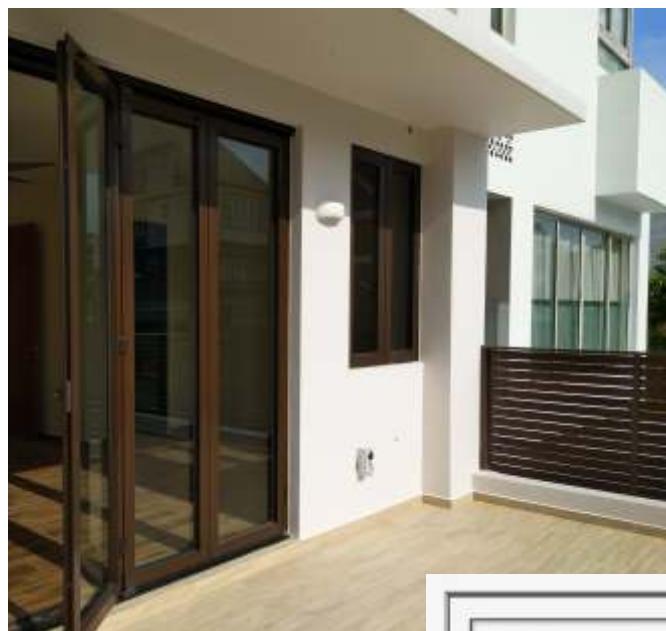
6 pins / Silver



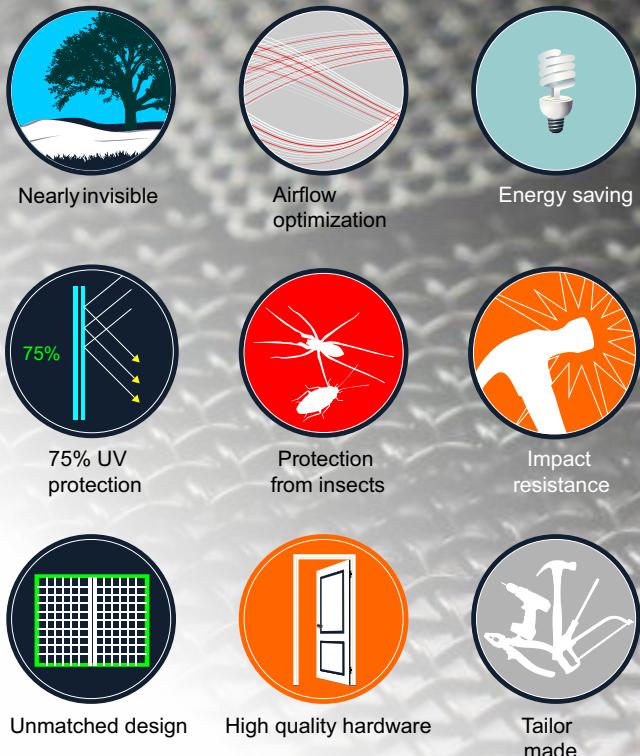
**Thumb Turn cylinder**

6 pins / Silver





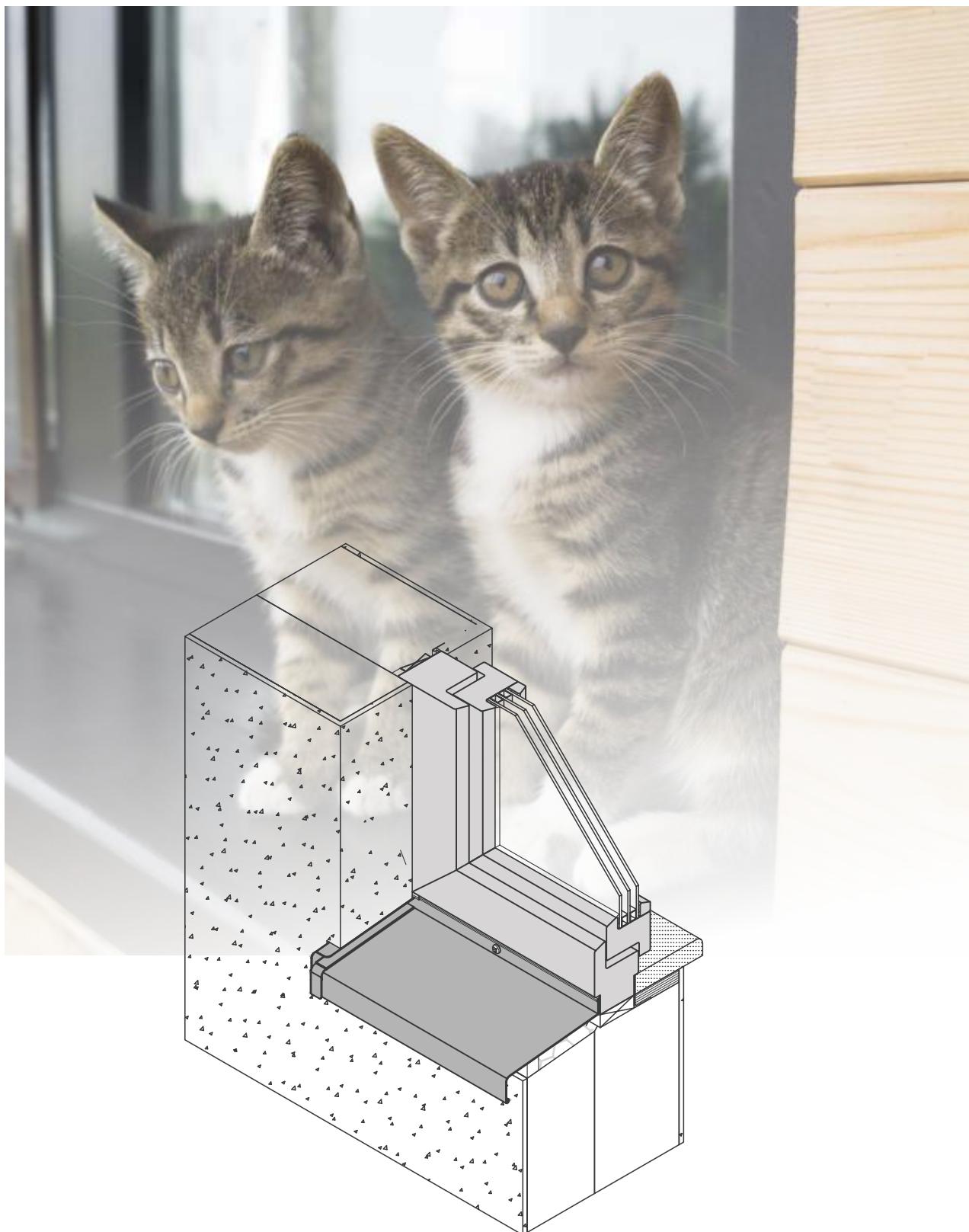
- SAFE
- PEACE OF MIND
- DURABLE
- BULLETPROOF
- ANTI- KNIFE
- IMPACT RESISTANT
- ANTI- MOSQUITO
- ANTI- SNAKE
- ANTI RAT
- VENTILATION
- UV PROTECTION
- BLACK POWDER COATED
- ANTI CORROSION Stainless Steel GRADE 316



Recommended to use our Stainless Steel Security Mesh:

- Windows and Doors
- Child Fall Protection Screens
- Fencing and Balustrade Systems
- Patio and Enclosures
- Vandal Protection Screens
- Hurricane Protection Screens

## PREMIUM WIRE MESH

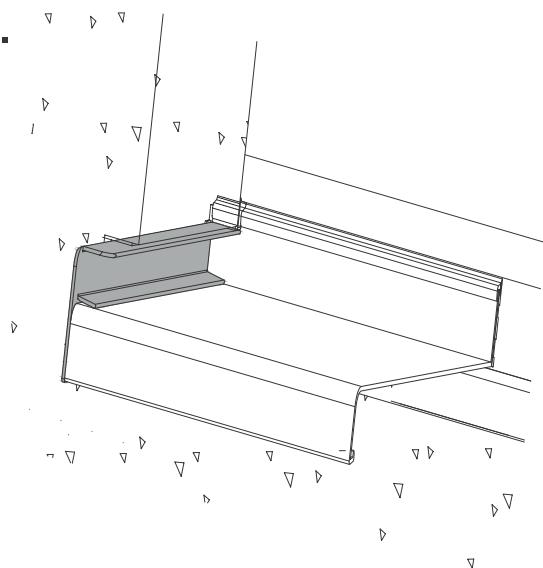


## WINDOW SILLS

## OUTSIDE ALUMINIUM SILL



The aluminium sill plays an important part in protecting the home from water penetration into the wall. They are keeping your facade free of moisture and mold. Our outside sills are equipped with end- caps for a neat finish.



## INSIDE QUARZSTONE SILL



Although it's not necessary on a structural level to install an interior window sill, they do add a lot of character to a room, and provide an extra spot to make a house feel more like a home.



1



2



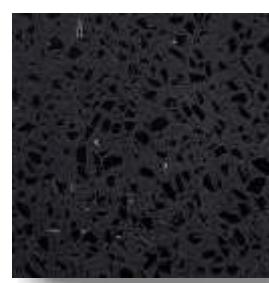
3



4



5



6



7



8



## CONEXIS L1- FOR LEVER OPERATED LOCKS



### FEATURES

#### **Keyless:**

Secure your home without the need for a key, operate by APP, Keycard, Fob or TAG

#### **Simple to fit:**

Basically this device replaces your current lever handle

#### **BSI approved:**

The world's first BSI (British Standard) approved smart lock

#### **Security as standard:**

Built-in tamper alarm, bank-level encryption and incorrect pin code features

#### **Battery powered:**

4 x AA batteries included, alert given when batteries are running low

#### **Available in a range of finishes:**

including chrome, satin nickel, black and white

## NUKI 2 SMARTLOCK- FOR KEY OPERATED DOORS



### FEATURES

#### **Auto Unlock & Lock**

Nuki is a motorized device, able to automatically unlocks when you come home and locks again when you close the door.

#### **Open remotely**

With the optional “Bridge” let friends and family in, even when you’re not home.

#### **Safety first:**

All communication are end-to-end encrypted.

#### **Never lose another key:**

No more cutting keys or changing locks.

Simply manage permissions using the app.

#### **Continuous monitoring:**

Monitor who has come and gone while you’re at work, on the go, or on holiday.

#### **Your own personal assistant:**

The Lock is compatible with Amazon Alexa, Google Home, IFTTT and Apple HomeKit



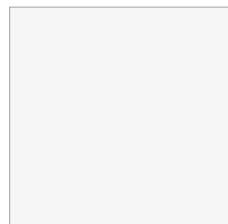
**Colours and Customizations**



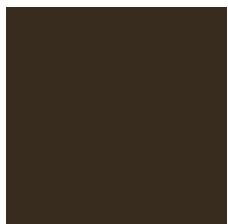
## PROFILE COLOURS

GERMAN WINDOWS exclusively use powder coatings provided by leading suppliers like JOTUN or AKZO NOBEL.

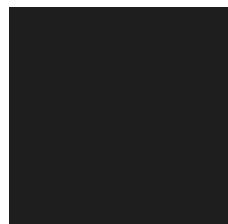
We have a selection of 21 vibrant colours permanently available. If you are looking for other colours kindly accept a slightly longer lead-time.



9016



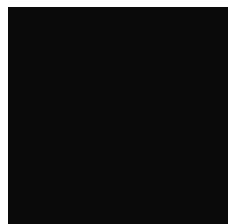
8014



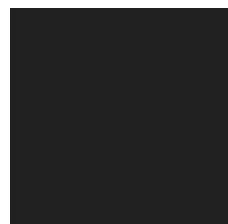
7015M



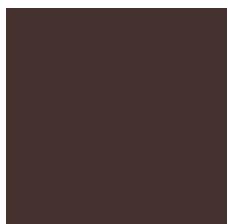
4115



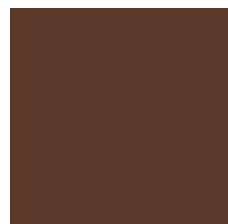
9005



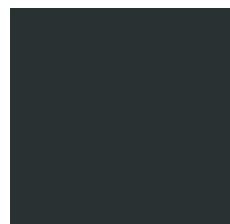
8019



8010



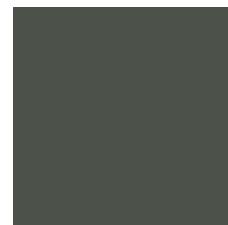
80375



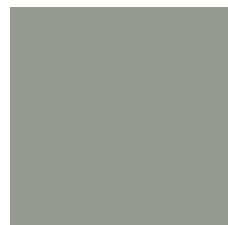
7028



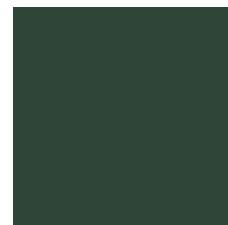
7013



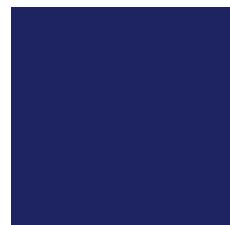
7505



7004 (M)



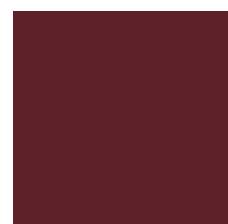
6005



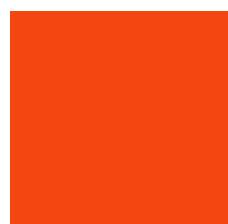
388



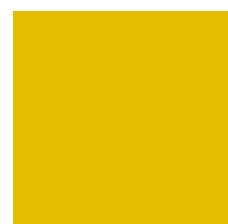
6133



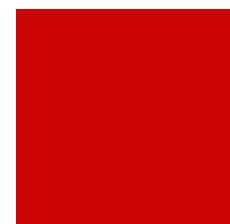
35025



2019



1003



526



4018





Soundproofing



With the right combination  
of window type, glazing  
and installation  
you will reach a perfect  
noise reduction !



GLAZING  
+ PROFILE  
+ HARDWARE

= SOUND PROOF



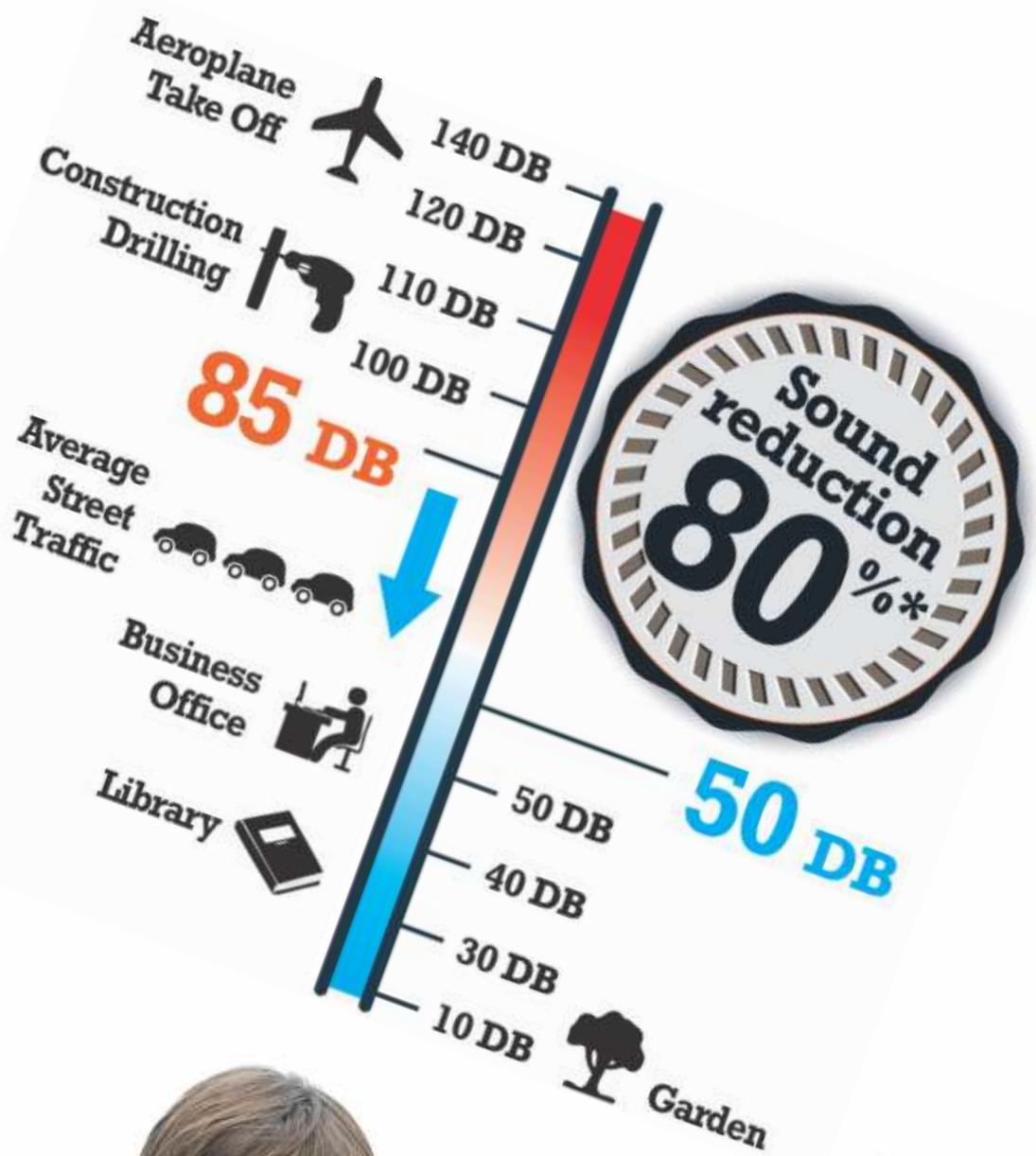
# Soundproof

# *Windows*

Due to the vibration damping with our double chamber 3 mm thick aluminum profiles we reach the highest noise insulation results!

# *State of the Art*





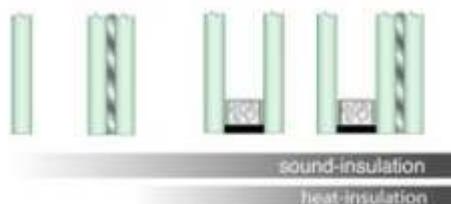
## TECHNICAL BACKGROUND

# Sound Insulation

A proper sound insulation can only be achieved when all components play well together. The final sound insulation factor depends on the weakest element. Therefore it's important to take all factors such as glass, profile and installation into consideration.

## Glass

Our standard glazing is 10.76 mm laminated. This glass provides 32 dB of sound reduction in combination with a GERMAN Windows double chamber profile. Sound reducing glasses, start at 10 mm, and increase in thickness based on the insulation factor required.

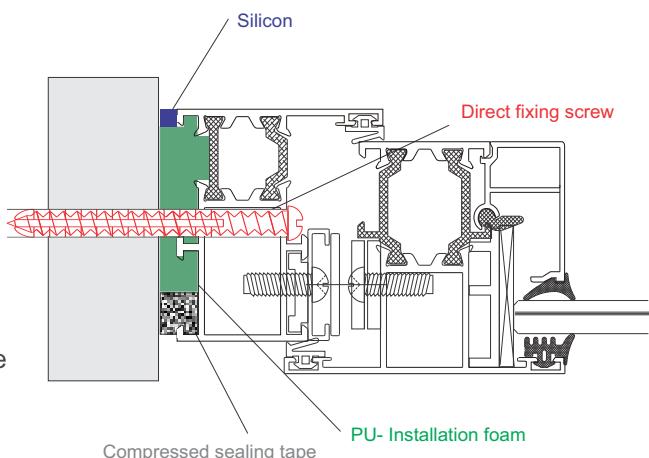


## Profile

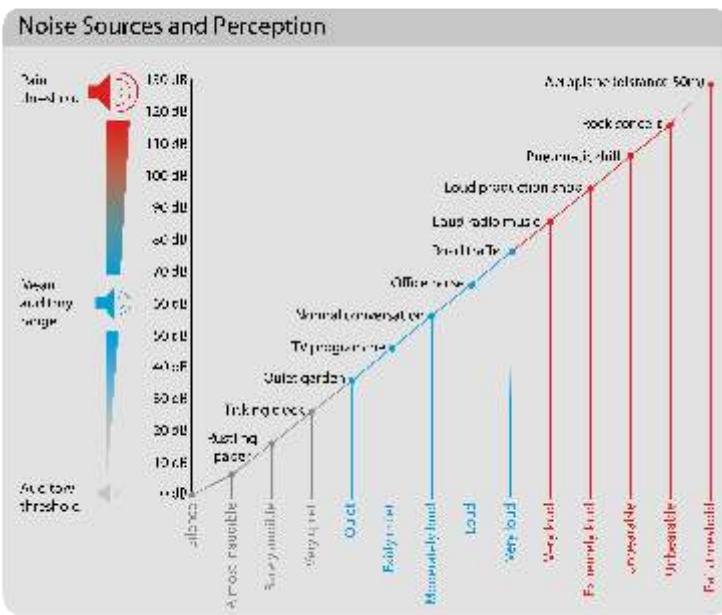
Our profiles are especially engineered to not only hold the glass in place but also reduce the noise pollution significantly - given that you're using a sufficient thick glass.

## Installation

The installation plays a very important role as well. Even the smallest gap will enable noise to enter the room. Therefore a proper sealing is of utmost importance.



Following the **German RAL Standard** will close the gap in between window and building long-lasting, water- and airtight.



### Recommendation

- ✓ Bedroom 30 - 35 dB
- ✓ Study room 35 - 40 dB
- ✓ Living room 40 - 45 dB
- ✓ Home office 45 - 50 dB

By subtracting the recommended indoor noise level from the typical outdoor noise level, you can estimate the appropriate acoustic performance for your windows.

### Sample calculation:

1. External noise source 69 dB
2. Desired room noise level: 35 dB
- = The difference is 34 dB

In this case, a 34 dB rating is required for the window and door system.

“For projects that require fully tested & certified performance data, please get in touch with our specialist. We will work out a solution that suits your needs...”

## Conclusion

The weight of soundproof glazing can easily reach up to 50 kg / m<sup>2</sup>. Therefore, window design and construction, must be extraordinary strong. An air gap of only 1% of the total window can reduce the sound insulation by up to 10 dB, meaning that the noise passing through sounds twice as loud as it would if well sealed. We use EPDM gaskets in at least two levels inside window sash and window frame. Gaskets corners are welded or glued to each other to provide a permanent gap free solution.

## ACOUSTIC PERFORMANCE

### 10.76 mm (64.2) LamiGlass, PVB- Standard

Frequency, Hz / dB						Rw	C	Ctr	OITC	STC
125	250	500	1000	2000	4000					
125	250	500	1000	2000	4000	37	0	-2	32	36
27	32	31	35	41	50					

### 10.76 mm (64.2) LamiGlass, Q-SOUND

Frequency, Hz / dB						Rw	C	Ctr	OITC	STC
125	250	500	1000	2000	4000					
125	250	500	1000	2000	4000	40	-1	-3	35	40
28	31	37	42	42	52					

### 15.14 mm (86.3) LamiGlass, PVB- Standard

Frequency, Hz / dB						Rw	C	Ctr	OITC	STC
125	250	500	1000	2000	4000					
125	250	500	1000	2000	4000	36	0	-2	34	36
31	33	33	34	41	50					

### 21.52 mm (1010.4) LamiGlass, PVB- Standard

Frequency, Hz / dB						Rw	C	Ctr	OITC	STC
125	250	500	1000	2000	4000					
125	250	500	1000	2000	4000	38	-1	-2	35	38
29	37	33	35	50	57					

### 21.52 mm (1208.4) LamiGlass, Q- SOUND

Frequency, Hz / dB						Rw	C	Ctr	OITC	STC
125	250	500	1000	2000	4000					
125	250	500	1000	2000	4000	43	-1	-3	39	43
36	35	40	42	46	57					

### 21.76 mm 8.38mm (44.1) LamiGlass, PVB- Standard

6 mm Cavity

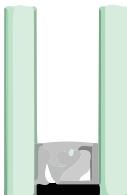
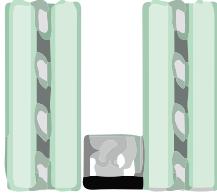
### 7.38mm (34.1) LamiGlass, PVB- Standard

Frequency, Hz / dB						Rw	C	Ctr	OITC	STC
125	250	500	1000	2000	4000					
125	250	500	1000	2000	4000	37	-1	-4	31	37
29	24	33	42	44	60					

### 22.00 mm 8mm Float Glass - 6mm Cavity - 8mm Float Glass

Frequency, Hz / dB						Rw	C	Ctr	OITC	STC
125	250	500	1000	2000	4000					
125	250	500	1000	2000	4000	35	-1	-3	31	34
29	25	29	37	39	38					

## GLAZING OPTIONS

Glazing type	Thickness (mm)	Glazing structure	Weight (kg/m <sup>2</sup> )
  	6.38	3 mm Glass- 0.38 PVB*- 3 mm Glass	14.94
	10.76	5 mm Glass- 0.76 PVB*- 5 mm Glass	24.9
	21.52	10 mm Glass- 1.52 PVB*- 10 mm Glass	49.9
Laminated safety glass			
Insulated	22	8 mm Glass / 6 Air GAP / 8 mm Glass	26.4
Insulated laminated	21.76	4 mm Glass- 0.38 PVB*- 4 mm Glass / 6 Air GAP / 3 mm Glass- 0.38 PVB*- 4 mm Glass	39.1
		*Polyvinyl butyral (PVB)	

Rw: weighted sound level under lab conditions

Ctr: low frequency correction factor

C: high frequency correction factor

**OITC:** measure sound transmission in- between outdoor and indoor

STC: sound transmission class

# CUSTOMIZATIONS

## Glass color



brown



green



dark brown



reflective green



grey



reflective blue



## lowE - Glazings

Low-e coatings have been developed to minimize the amount of ultraviolet and infrared light that can pass through glass without compromising the amount of visible light that is transmitted.

## Tempered Glass

All our glass specifications are available in tempered versions as well.

Tempered glass is a type of safety glass that is 4-5 times stronger than regular glass. When tempered glass breaks, it shatters into little pebbles without any dangerous razor-sharp edges.

## SENTRY GLASS by DuPont

Five times stronger and up to 100 times stiffer. This makes SENTRY GLASS to your preferred choice if you are looking for ultimate security, protection against storms and blasts.

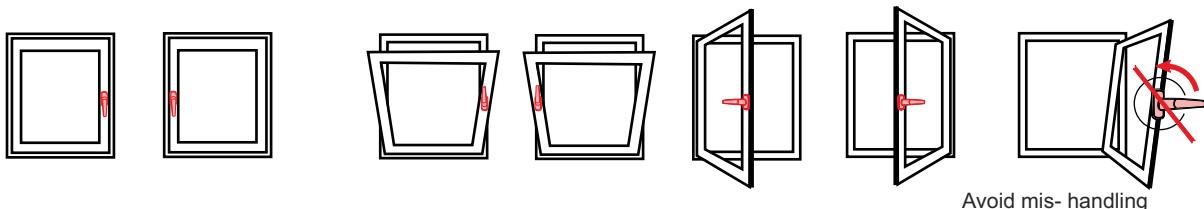


SCAN ME



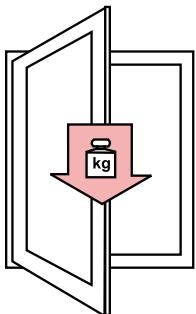
# OPERATION INSTRUCTIONS

## Tilt and Turn Window operation

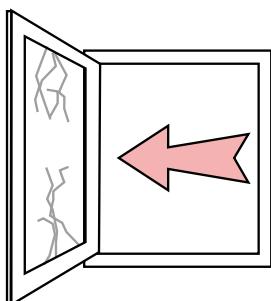


Avoid mis-handling

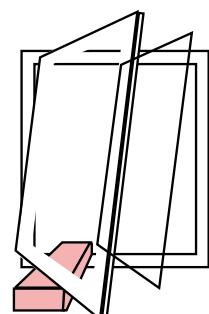
In order to preserve the long **operativeness** of your window and to guarantee **security**, it is imperative to observe the directives listed below.



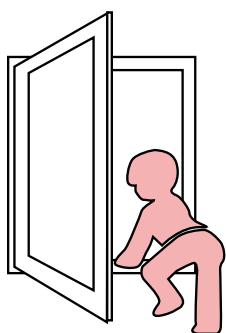
The window sash may not be burdened with additional weight.



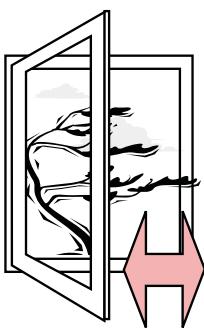
Do not allow the sash to hit or press up against the window reveal.



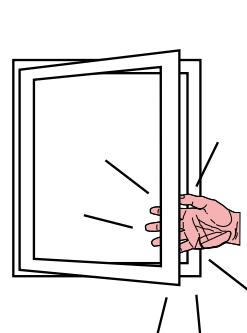
Do not place any objects between the sash and frame.



Where small children or mentally handicapped persons have access to the window, the sash is to be safeguarded against turning, for example with a child-safety lock or key-lockable handle.



Do not leave sashes open in the turn-modus during strong winds.



Caution! A slamming sash can lead to injuries. While closing, do not grasp between the sash and frame.

## SECURITY

- » 50 - 65 mm wide aluminum window and door profiles
- » up to six adjustable security locking points
- » UK Police approved door locks
- » lockable window handles
- » special security glazing

## DESIGN

- » German styling
- » Perfect proportions of frame and glass
- » unlimited choice of colours

## THERMAL PROTECTION

- » fulfills the highest insulations values
- » comply with Green Building Index (GBI) set by Malaysian Government

## SOUND INSULATION

- » up to three layers of gaskets,
- » multi chamber sound break aluminum profile
- » sound insulation values up to 40 dB!





# German Windows & Doors

Security and  
noise protection  
for your home

**German Windows (Malaysia) Sdn Bhd (965167-T)**

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