

# GLUGGA LAUSNIR

Njóttu útsýnisins!

PVC Gluggar- og hurðar

Nordic Design Plus window design is based on a traditional Scandinavian window design.



Windows are such a natural part of our lives, we barely notice them. Yet we never fail to appreciate a good, trusty window, saving us from wind and cold, helping us look beyond and enjoy the view.

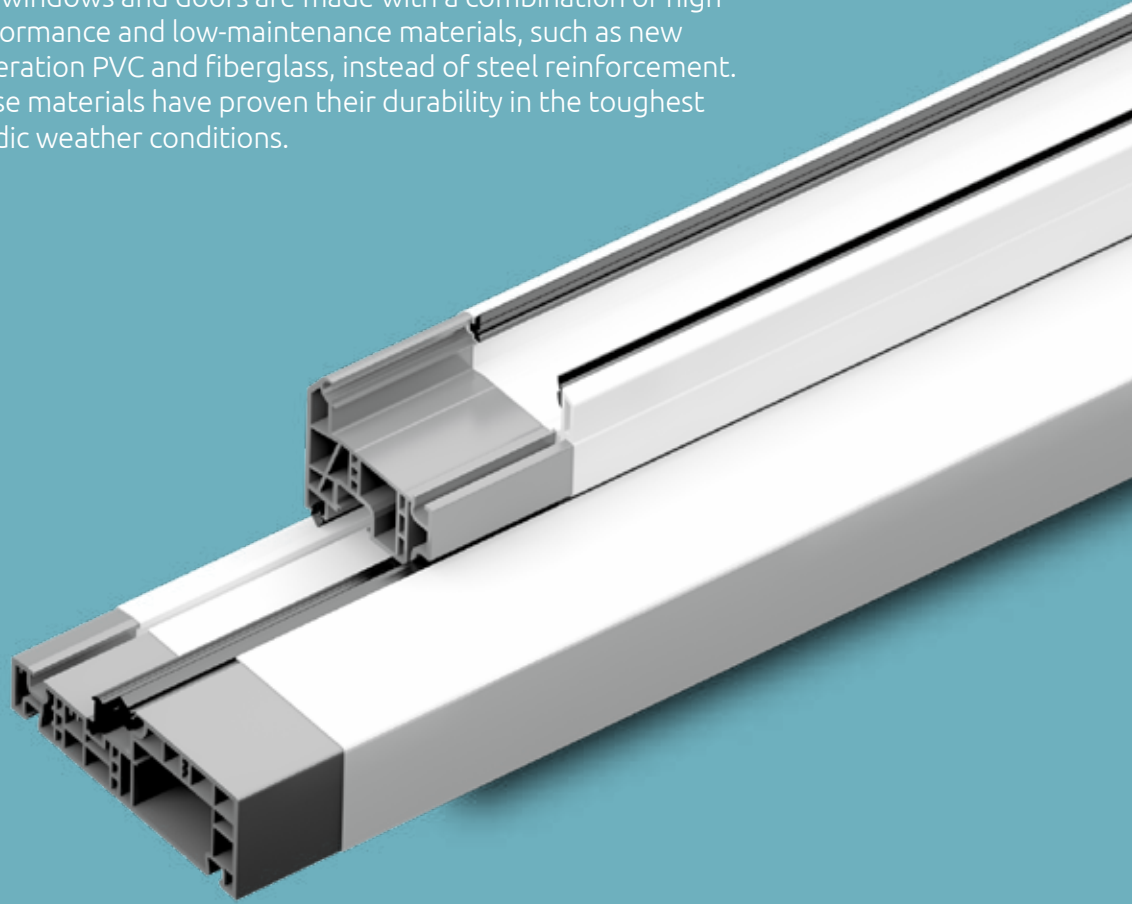




# Innovation

We firmly believe in the future of fiber-reinforced plastic, which has a number of technological advantages.

Our windows and doors are made with a combination of high-performance and low-maintenance materials, such as new generation PVC and fiberglass, instead of steel reinforcement. These materials have proven their durability in the toughest Nordic weather conditions.



## 📌 20% lighter

A fiberglass window compared with an ordinary steel reinforced window is 20% lighter, which makes your work faster and easier.



## 📌 7 times stronger

Fiberglass is 7 times stronger than the average PVC. It is no wonder that such a window never warps or shrinks.



## 📌 Staying clean much longer

New generation PVC coating (HDF) creates a smooth surface which doesn't attract dirt and stays clean and shiny for a longer period.



## 📌 Keep your home safe

Our windows are tested to withstand 1400 Pa water of pressure that is equal to wind speeds of upto 46 m/s.



# Tradition

**Our aim is to revive the traditional art of door and window-making.**

- ✔ Traditionally, windows and doors all across Europe were made out of wood. However, due to its high levels of energy efficiency and low maintenance, PVC windows are becoming more and more popular, especially in the maritime parts of Europe.
- ✔ Our aim is to revive the traditional art of door and window-making. We work hand in hand with architects and designers to ensure that heritage buildings are preserved and safe to use. Our technologies allow us to replicate authentic nineteenth and twentieth-century windows and make them look exactly like wood – only easier to use and more efficient.
- ✔ Our technological know-how expands to fittings and hinges, which can greatly vary. Traditional Scandinavian windows with all their flaps and hooks can be tricky to replicate, so we only use locally made window locks.
- ✔ You can choose between classical-style as well as contemporary window opening types.







# Quality

**"Aradas ir ko" is certified by independent Norwegian, Danish and German inspection bodies.**

Quality lies in details, and the quality of a window lies in its composition. By trusting us you can be sure that your windows were thoroughly tested and fully certified for the best quality. We are proud to comply with the highest standards in the industry and we also maintain our own production and quality control systems.



DANSK  
VINDUES  
VERIFIKATION



DANISH  
TECHNOLOGI  
INSTITUTE



## Service network

We run a wide service network in Scandinavia to provide immediate assistance with any issue.

## Happy customers

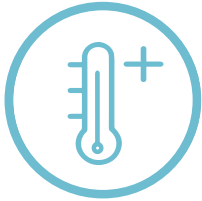
We believe that happy customers are our best advertisers. Ask your neighbours – there is a good chance they use ARADAS's windows.

New!

\* upcoming 2018

# Nordic Design Plus *Top Swing*

Composite window with Spilka® Opus hinges



Probably *the warmest Top Swing window in the market!*  
Product  $U_w$ : 0,68W / m<sup>2</sup>K



Measurements

**120x86 mm**



Sound control

**32-43 dB**

**RAU-FIPRO®**

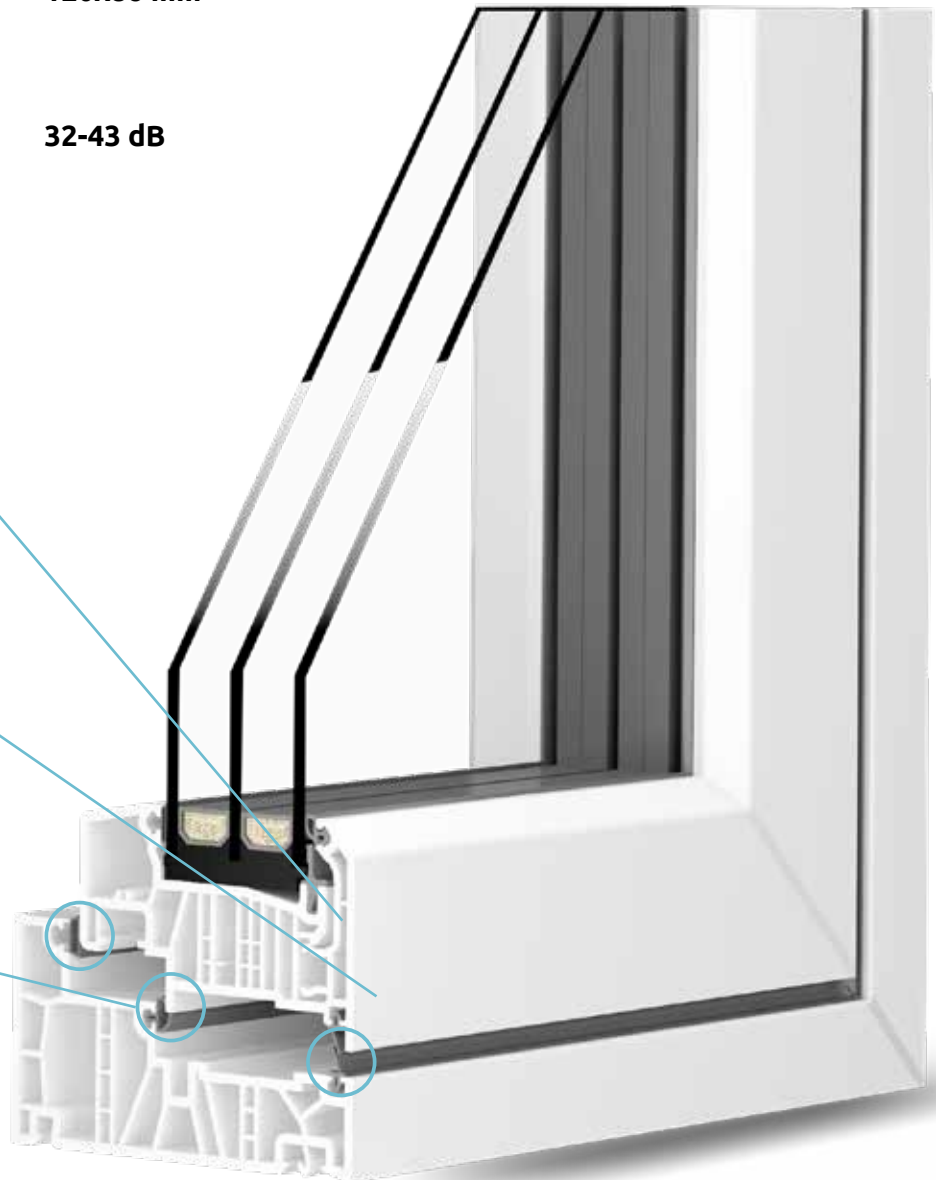
(glass fiber reinforced composite material)



**HDF® surface**



**3 Gaskets**



# Nordic Design Plus

## Composite window



### Nordic Design Plus – class without compromise

With  $U_w$  value of  $0,83\text{W/m}^2\text{K}$  Nordic Design Plus sets entirely new standards in terms of energy efficiency and without any doubt is the best energy saving composite window on the outward opening windows market today.

It includes all possible options for outward opening: Top Swing, Top Hung, Top Slide, Side Hung and Side Slide.

### New generation features:

- High-tech RAU-FIPRO® glass fiber reinforced composite material provides high strength and maximum stability. It is a material which is used in aircraft and Formula-1 cars.
- Outstanding heat insulation as well as the best possible sound insulation (up to 44dB).

- Weight advantage – for easy handling and installation. No steel reinforcement means that elements are lighter than ordinary elements featuring steel reinforcement.
- Environmentally friendly – 100% recyclable.

### Total product $U_w$ with different glass packs:\*

\* All values are calculated with a warm edge.

1.20



$U_g = 1.1$  (4 – 16ar – 4 XN)

0.83



$U_g = 0.6$  (4 XN – 14ar – 4 – 14ar – 4 XN)

0.69



$U_g = 0.4$  (4 ONE – 12krp – 4 – 12krp – 4 ONE)

ar = glass with argon krp = glass with krypton



**Top Swing**



**Top Slide**



**Side Hung\***



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## Hinges & Fittings for Side Hung Window



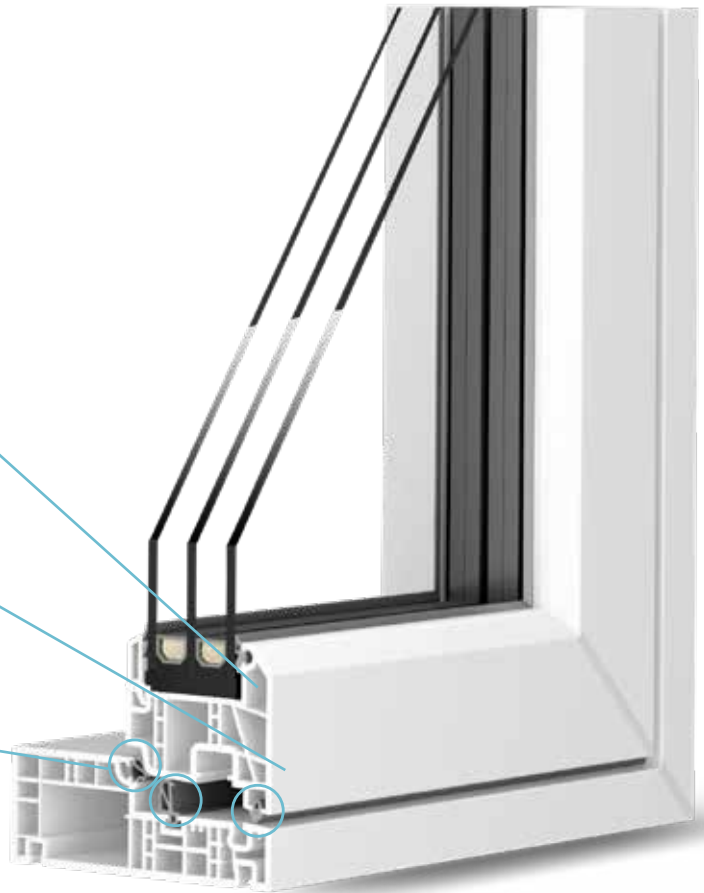
\*Side Hung is also available with handle

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✓ **RAU-FIPRO®**  
(glass fiber reinforced composite material)

✓ **HDF® surface**

✓ **3 Gaskets**



# Top Swing

## PVC window with Spilka® hinges

Since the 1970s, SPILKA CLASSIC® has been the leader in top swing hinges in the Scandinavian market. That's why Top Swing became so popular. We are proud to offer PVC reversible windows with SPILKA® hinges. Version with PN UNI is also available.

Handling the window is easy in all positions. The design and construction ensures the sash is perfectly balanced even when the sash is reversed 180 degrees. Outward opening windows have a weather performance advantage as the sash is made tighter against the weather gaskets in the frame by increased wind pressure. The hinge is fitted a 'routing' in the side of the frame and this allows a minimal gap between sash and frame.

The hinge system allows the design of high performance, secure windows with excellent insulation qualities; the hinge rivets are precisely produced with in-built lubrication requiring no maintenance and ensuring a long service life.



### Total product Uw with different glass packs:\*

\* All values are calculated with a warm edge.

1.40

Ug = 1.1 (4 – 16ar – 4 XN)

1.10

Ug = 0.6 (4 XN – 14ar – 4 – 14ar – 4 XN)

1.00

Ug = 0.5 (4 ONE – 14ar – 4 – 14ar – 4 ONE)

# Brillant Design® 70/120

## PVC window\*

\* Available with visible and hidden hinges

PVC profiles guarantee that your windows remain hermetic in their whole life-cycle between a brace and a frame, between glass and a brace, and also in joints with building walls. So none unwelcome sound and cold will penetrate inside.

Windows made of BRILLANT DESIGN® 70/120 allow you to enjoy the comfort of your home even in more challenging climatic conditions. Thanks to the excellent thermal insulation value, the warmth or cold stays outside where it belongs.

So enjoy cozy living and a low heating bill. BRILLANT DESIGN® 70/120 window profile systems are the ideal components for energy saving houses and modernizations:

- Frame depth 70/120 mm
- 5 chambers system
- 10x10 mm grooves all around frame.

### tilt option



### turn option



## Total product $U_w$ with different glass packs:\*

\* All values are calculated with a warm edge.

1.30

$U_g = 1.1$  (4 – 16ar – 4 XN)

0.93

$U_g = 0.6$  (4 XN – 14ar – 4 – 14ar – 4 XN)

0.86

$U_g = 0.5$  (4 ONE – 14ar – 4 – 14ar – 4 ONE)

ar = glass with argon krp = glass with krypton

# Synego®

## PVC window\*

\* Available with visible and hidden hinges



Thanks to the outstanding thermal insulating properties of SYNEGO®, your energy consumption will start to go down.

- Flexible system which meet all builders, architects and housing industry requirements
- Up to 50% more insulation than standard windows
- Break-in protection up to resistance class 3
- The revolutionary HDF® formula (High Definition Finishing) ensures your windows look like new every day. The highly complex formula seals the surface and creates a brilliant shine. Your windows not only stay cleaner for longer, but are much easier to clean when required.



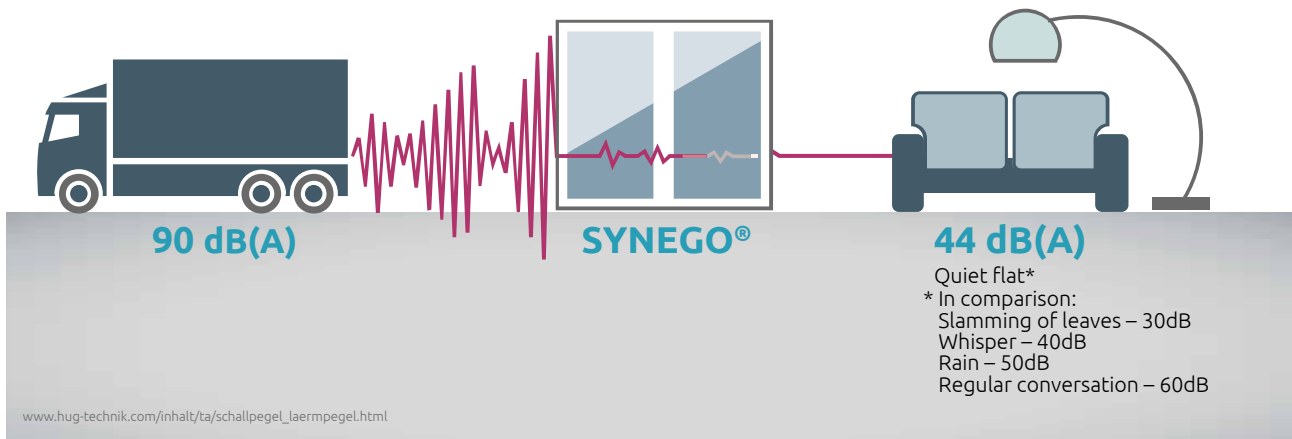
tilt option



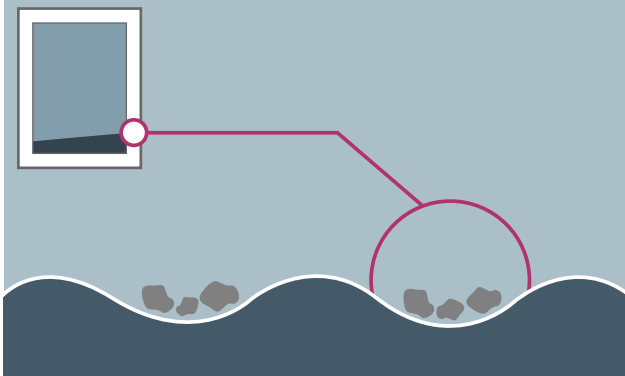
turn option



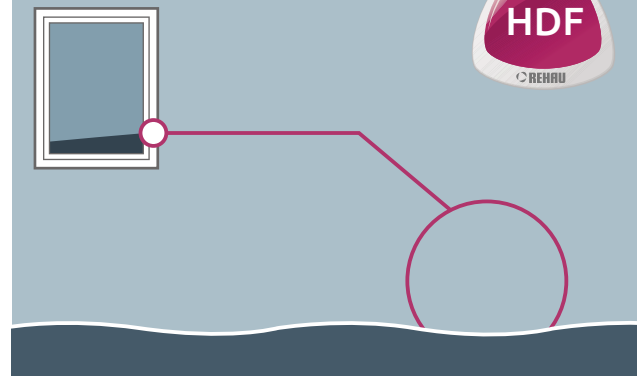
upto 22 times lower noise levels



Conventional window surface



HDF® window surface



**Benefits:**

- Energy savings thanks to great thermal insulation
- Peace and quiet thanks to noise protection
- Creative window design with a variety of shapes and colours
- Brilliant, clean windows using our innovative HDF® formula.

**Total product Uw with different glass packs:\***

\* All values are calculated with a warm edge.

1.10

Ug = 1.1 (4 – 16ar – 4 XN)

0.74

Ug = 0.5 (4 XN – 18ar – 4 – 18ar – 4 XN)

0.67

Ug = 0.4 (4 ONE – 12krp – 4 – 12krp – 4 ONE)

ar = glass with argon krp = glass with krypton

# Geneo®

## Composite window\*

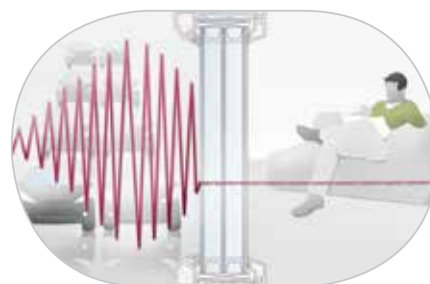
\* Available with visible and hidden hinges



Thanks to their technological advances and their performance characteristics, windows constructed from GENE<sup>®</sup> profiles put all previous window systems in the shade.

High-tech RAU-FIPRO<sup>®</sup> glass fiber reinforced composite profile design requires no steel, thus eliminating thermal bridges through which valuable energy can be lost. The best possible break-in protection and previously unattained sound insulation are included.

### Sound Insulation Class 5



Glass  $R_w = 50$  dB, P 47 dB without reinforcement  
Including optimal thermal insulation.



### RAU-FIPRO® profile core



The profile core made from the high-tech material RAU-FIPRO® gives GENEEO® window profile systems maximum stability.

### Center seal



With its three surrounding seal levels, the GENEEO® window profile offers the best possible insulation characteristics. The highly elastic seal material which is resistant to continuous stress guarantees a long service life.

### Optimized thermal insulation



GENEEO® possesses functional chambers which can be employed for a variety of purposes. For example, the GENEEO® MD plus uses thermal modules to optimize insulation properties and provide a thermal insulation.

### tilt option



### turn option





### Benefits:


- Fully glass fiber reinforced composite window profile system
- Constructed from the high-tech material RAU-FIPRO®
- The most energy-efficient profile for windows ranging from low energy houses (e.g.,  $U_w = 1.1 \text{ W/m}^2\text{K}$ ) to passive house standards (e.g.,  $U_w = 0.75 \text{ W/m}^2\text{K}$ ).
- The best possible level of sound insulation without steel reinforcement, achieving previously unattainable values (glass 50 dB =  $R_w, P 47 \text{ dB}$ ) for sound insulation class 5 – and including optimal thermal insulation.
- Break-in protection up to resistance class 3. Without steel reinforcement, resistance class 2 – including optimal thermal insulation.

### Total product $U_w$ with different glass packs:\*

\* All values are calculated with a warm edge.

1.20   $U_g = 1.1 (4 - 16ar - 4 \text{ XN})$

0.75   $U_g = 0.5 (4 \text{ XN} - 18ar - 4 - 18ar - 4 \text{ XN})$

0.68   $U_g = 0.4 (4 \text{ ONE} - 12krp - 4 - 12krp - 4 \text{ ONE})$

ar = glass with argon krp = glass with krypton

# Balcony & Terrace door



Terrace and balcony doors are a perfect combination of durability and timeless beauty. A large area of glass allows maximum light into your home, while energy-saving profiles ensure great efficiency. You can choose outward (or inward) opening and two sash with moving mullion door that allows having clean entrance to terrace or balcony.

Additionally all doors have aluminum footstep and frictional brake.

- Frame depth 70, 80, 86 or 120mm
- Aluminum footstep
- Frictional brake
- Different cylinder options



**Nordic Design Plus**



**Geneo  
Synego  
Brillant Design 70/120**



# Entrance door

An entrance door is the eye-catcher of a house. On the one hand it should underline the character of a house, and on the other it must provide high levels of security.

ARADAS doors meet all the requirements of security and energy saving. Instead of glass, thermo-panels can be installed. All profiles are 5-9-chamber and are as tight as windows.

- Frame depth 70, 80, 86 or 120mm
- Inward or outward opening
- 2 or 4 point locking mechanism



**Nordic Design Plus**  
**Geneo**  
**Synego**  
**Brillant Design 70/120**



# Tilt & Slide door



Room comfort is thus no longer the sum of many detailed solutions, but the result of a holistic approach. A Tilt & Slide door provides the usual ventilation in the tilt mode and when necessary slide mode. That ensures that spaces become alive and people feel comfortable in them. A simple movement of the hand is enough to make the glass boundaries between the inside and outside disappear.

Tilt & Slide doors are particularly recommended for balcony and terrace doors, glass buildings and conservatories.

In line with current architectural trends, floor-to-ceiling sashes up to 2.70 m can be implemented, as well as heavy thermal insulation elements with triple glazing up to 200 kg sash weight. The unobtrusive slimline cover caps emphasise the modern look of your Tilt & Slide doors and meet the highest aesthetic demands.

**Geneo**  
**Syngo**  
**Brilliant Design 70/120**



# Lift & Slide door

## **Additional convenience and security for large sliding doors up to 400 kg**

Lift & Slide door could be produced up to 6m long and sash weight up to 400kg. Its slide nice and easy.

Security components with mushroom cams are integrated in our Lift & Slide door even in the basic version as standard, providing effective anti-jemmy protection, and as a result meet the highest security and burglary protection demands.

Save energy with the new enhanced threshold. A special material mix of heat insulating substances produces optimal isothermal efficiency and prevents unwanted thermal bridges.



**Geneo**



# Folding door



The beauty of a multi-fold door is that the multiple panels fold up to create an opening that can be as large as the size of the door frame.

**Synego**  
**Brilliant Design 70**

A folding door system opens up rooms in a particularly elegant and efficient way. All doors are folded in a space-saving manner and conveniently slid to the side. In this manner, every room can be opened out fully, making use of the whole width.

Additionally, our low thermally broken threshold ensures there are no chances of slipping or stumbling.

Large Folding door systems are ideally suited to conference and office buildings, hotels and guest houses, families with toddlers as



well as buildings used by older and disabled people. Optimal room ventilation has also been integrated in a Tilt & Turn sash, which can be operated independently of the folding sashes. In daily use, this active sash serves as a balcony and/or terrace door.

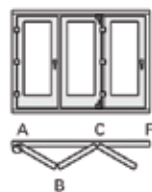
**Functionality and beauty – all in one**

Thanks to the optimised bogie technology and pin-guided rollers, the Fold & Slide hardware convinces by means of its perfectly smooth operation. The slimline,

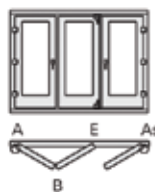
flat and powder-coated components are available in many colours and make individual designs possible.

**Extremely variable**

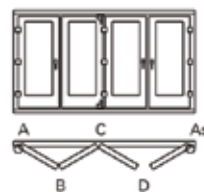
Variable fixing locations enable optimal adaptation to the profile system. The system can also be adjusted to accommodate different overlap heights.



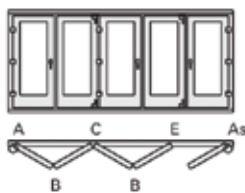
Scheme 330



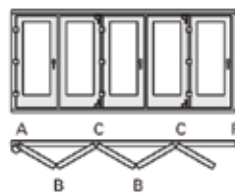
Scheme 321



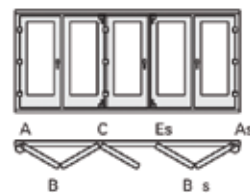
Scheme 431



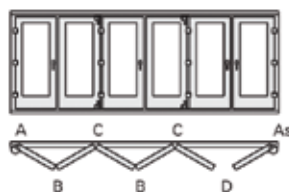
Scheme 541



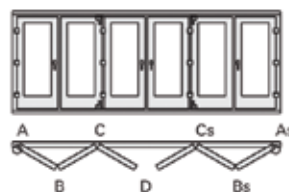
Scheme 550



Scheme 532

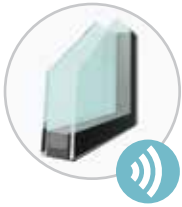


Scheme 651



Scheme 633

# Glass



## Insulated glass units

Selecting insulated glass units is as important as the choice of a new window. Insulated glass units have different characteristics: solar and sound control, safety. The glass may be reflective or stained. Modern insulated glass units are produced with selective glass coating (Low-E) and filled with argon or krypton gas, which has better features.



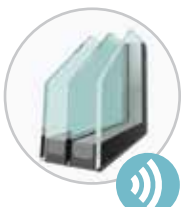
## Aluminum frame

An aluminum frame is usually installed between two glasses. The aluminum frame is cheaper than other types of frame, but it is more heat (cold)-conductive.



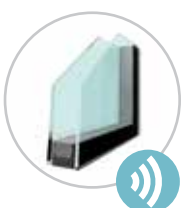
## Warm edge

Warm edge spacer bars insulate the edges of a sealed unit and keep the panes of glass apart. Warm edge spacer bars like SWISSPACER® are made of an insulating plastic composite material that not only becomes a barrier to heat loss, but it also has to maintain that performance for years by preventing insulating gas leaking out and moisture vapour getting into the sealed unit.



## Two chamber insulated glass units

Two-chamber insulated glass units consist of three glasses. Using different glass thickness and spacing between them can significantly improve thermal and sound insulation.



## Sound controlling insulated glass units

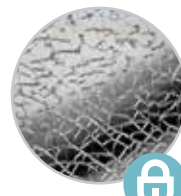
In order to avoid unwanted noise from the field we recommend to use sound insulated glass units where there is an increased noise level – next to busy streets, near the airport or railways.

## Safety insulated glass



## Laminated glass units

Laminated glass is a type of safety glass that holds together when shattered. In the event of breaking, it is held in place by an interlayer. In geographical areas requiring hurricane-resistant construction, laminated glass is often used in exterior storefronts, curtain walls and windows. Laminated glass is also used to increase the sound insulation rating of a window, where it significantly improves sound attenuation compared to monolithic glass panes of the same thickness.



## Tempered glass units

Tempered glass offers safety by breaking differently to normal glass. It shatters into small pebble-like pieces that are less likely to cause injury or damage. Tempered safety glass is formed using heat. The glass is heated, then quickly cooled. The tempering process leaves the glass hardened so that it is now approximately 4 to 5 times stronger, and therefore more resistant to breakage, than it was before.



## Solar controlling insulated glass units

The focus of this product is to regulate light characteristics. Due to solar control insulated glass units it is possible to control the temperature of rooms and reduce air conditioning costs.

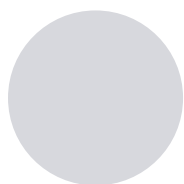


## Anti-fog glass units

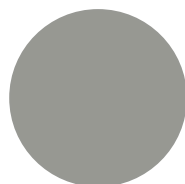
Anti-fog glass designed to significantly reduce the number of external condensation. This product also maintains clear and neutral aesthetics in both transmission and reflection, and maximises the entry of natural light into the building.

# A sophisticated 73 colors palette\*

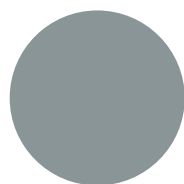
Similar to RAL



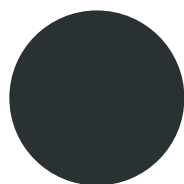
**Light Grey**  
RAL 7035



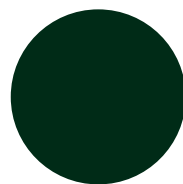
**Signal Grey**  
RAL 7004



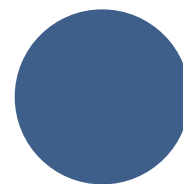
**Grey**  
RAL 7001



**Anthracite Grey**  
RAL 7016



**Dark green**  
RAL 6009



**Brilliant blue**  
RAL 5007

\* Contact a local sales person for a full color range.

## Decorative bars

**Inside the glass**



**Glued on both sides**



**Glued on both sides with  
frame inside the glass**



# Production



## REHAU quality

We only offer products that meet high quality and are tested by Rehau.



## DVV certificate

Aradas acquired a DVV certificate (Danish Window Verification) in 2013, supplied by Danish Technological Institute. All our windows and doors are DVV-labeled and our production complies with the requirements of the Danish market.



## NDVK certificate

Aradas acquired a NDVK (Norwegian windows and doors control certificate) in 2013, which means that our production has been tested and manufactured according to the most rigorous requirements in the Norwegian market.

NDVK specialists inspect our production quality every year, which means quality improvements is a continuous job.



## CE certificate

All our products passed the necessary tests. The CE marking certifies that our production complies with EU consumer safety, health or environmental requirements.



# Delivery

Cost-effective packing to reduce transport cost



Quality packing is as important as a quality window. We take special attention to our product packages and how they are fixed on trailers.

## Partners











 GLUGGA  
LAUSNIR

[www.gluggalausnir.is](http://www.gluggalausnir.is)