

svarre®

the window to your personality



- the ultimate window with a unique design

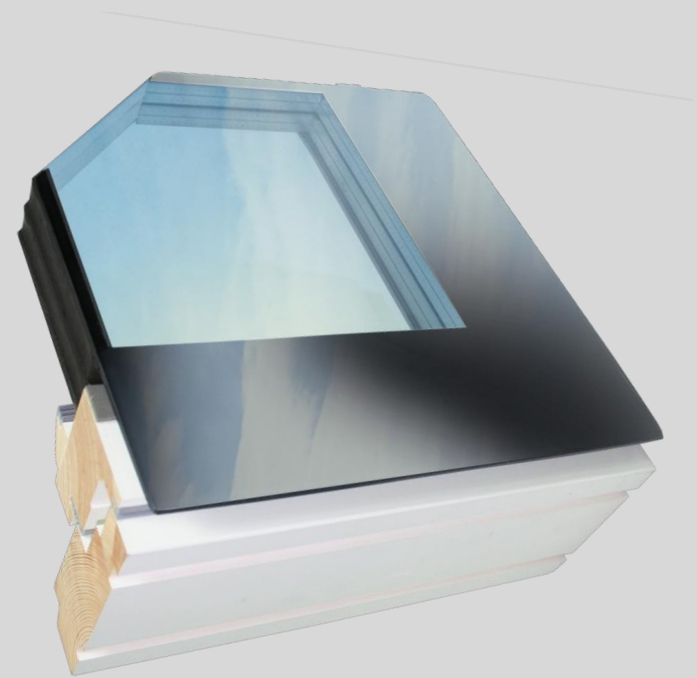
svarre the ultimate window combining an entirely unique design with a one hundred percent maintenance free exterior and technically some of the most exciting advancements available on the market.

Unique Design

The outside of the svarre window is glass alone and presents a seamless, flat, shiny surface. The edge of the glass is coloured and covers the timber frame on the inside. This smooth glass exterior gives the svarre window a simple and stylish appearance which has never been achieved in a window or door before.

Maintenance Free

svarre is the first window on the market with a one hundred percent maintenance free exterior. Glass is a proven material with extreme durability, as we know from ancient excavation – glass does not perish. The colour on the edge of the window is also guaranteed, as it is baked into the glass in the toughening process. This way it cannot fade and the window will look as new and stylish in 50 years time.



Environment friendly and healthy indoor climate

Saves on CO₂ emissions and on your heating bill

We would all prefer to live in a healthy and comfortable environment, but we cannot expect the earth's natural resources to last forever. It is therefore more important than ever, to start thinking about the environment and the conservation of its natural sources of energy. This is exactly what svarre is doing. You not only get a more comfortable and healthy environment, you also save considerably on your heating bill. When we burn less coal and oil, the pollution is reduced and with it the greenhouse effect. With a svarre window you not only save on your heating bill, you also contribute in the joint effort to minimise the CO₂ emission.

Three layers of super low energy glass

The window is triple glazed with super low E glass and thereby achieves some of the best insulation values on the market.

Avoid cold spots and condensation

svarre is developed to avoid cold spots and thereby condensation on the inside of the window. The figure on the right shows how it is only cold on the outside and does not penetrate the window, thereby avoiding cold spots on the inside. Condensation generates mould fungus which is a health hazard and contributes to a bad indoor climate. Condensation is not only caused by poor ventilation, but also by poor window construction and the wrong use of materials.



Fulfil the most desired requirements

Vrogum has developed the ultimate window. The window combines a unique design with, for the first time, a one hundred percent maintenance free exterior with high technical specifications. The window already fulfils the high technical requirements of the future. As a result the window will not be obsolete – it maintains its value and will in the end pay for itself.

1. Maintenance free

The window is constructed with glass on the outside which covers the internal timber. Why glass? Glass has the advantage compared to other materials that it is:

- 100 % maintenance free – glass does not need any maintenance.

2. Durability

Glass is extremely durable, so is the colour on the glass. The colour is painted on the inside of the glass and before the glass is toughened which means that the colour is burned into the glass. The advantage of glass is therefore:

- Never fades
- Glass is extremely durable
- 6 mm toughened safety glass on the outside as standard.



3. Security

The window is constructed with the best burglary proof hardware on the market:

- Hard stainless steel or aluminium hinges
- Security multipoint espagnolette locking front and back
- 6 mm toughened glass outside.

4. Sound proofing

The window has excellent proof qualities with up to DB 38 as standard for a better indoor climate because it is fitted with:

- 2 weather seals
- 3 layers of glass with different thickness.

5. Insulating

3 layers of glass as standard with following U-values (Ug):

- Ug values of 0,9 as standard
- Possible with Ug values down to exceptional 0,5.

6. Wind and water tightness

It is an overlapping window construction which makes the window extremely wind and water tight and enables the fitting of:

- 2 weather seals.



"When only the best is good enough!"

– this is the criteria, when we choose our pine timber. Internally we use knot free finger jointed heartwood pine timber, which makes it extremely stable and durable. The pine is slow growing because it comes from the Arctic Circle in Sweden and Finland, where there is a growth period of only a month a year. This gives the timber strength, hardness and long durability.

Timber gives you the choice of endless colours, stains or clear lacquer. You can even choose different colour inside and outside, so that the colour on the outer frame is the same as the glass.



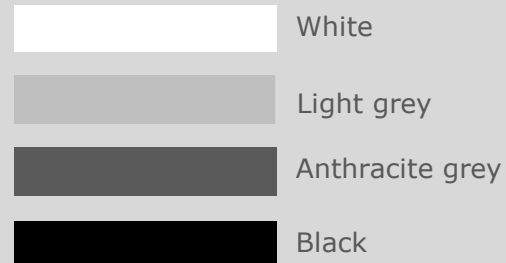
Pine of the best quality



Endless choice of colours



Colour of glass



(Possible with other colours on the glass)



Fixed or openings casements can be combined and built together to provide the same appearance both on the inside and on the outside, as both frames, mullion and transoms have the same design and size.

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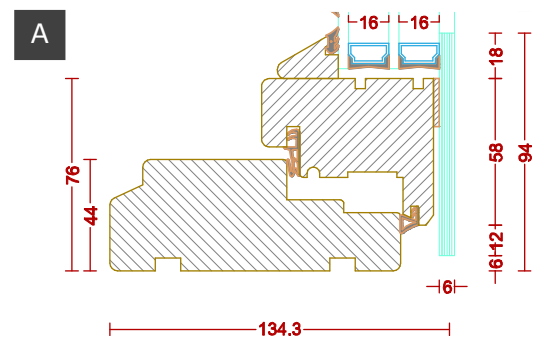
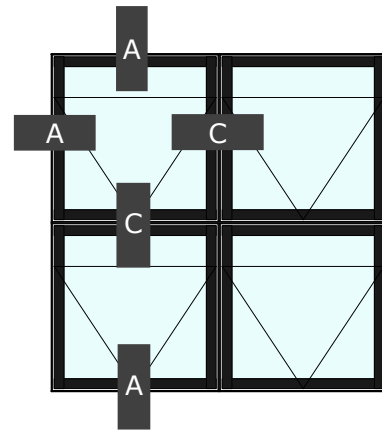
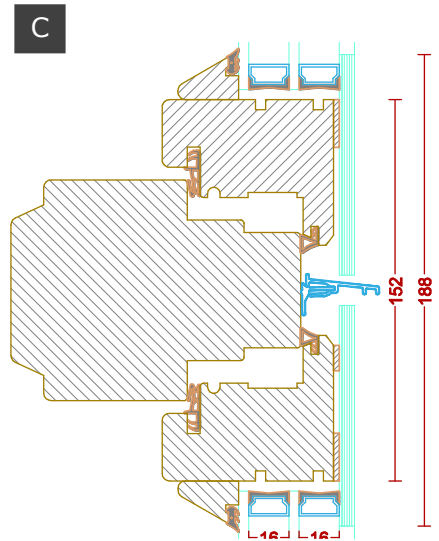
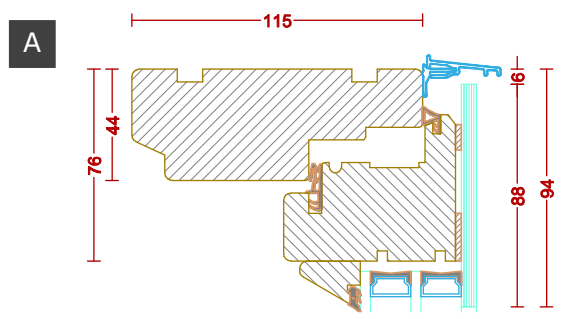
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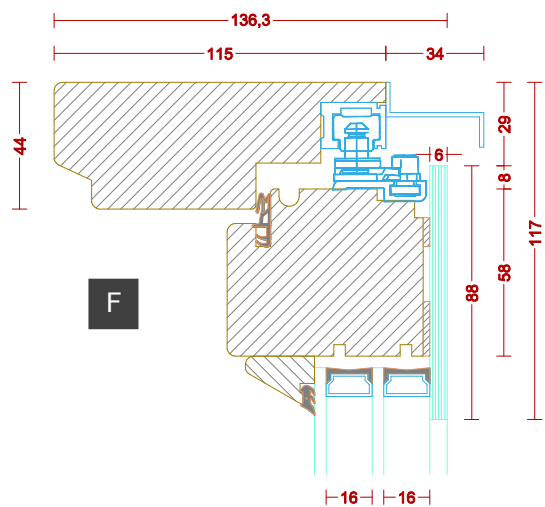
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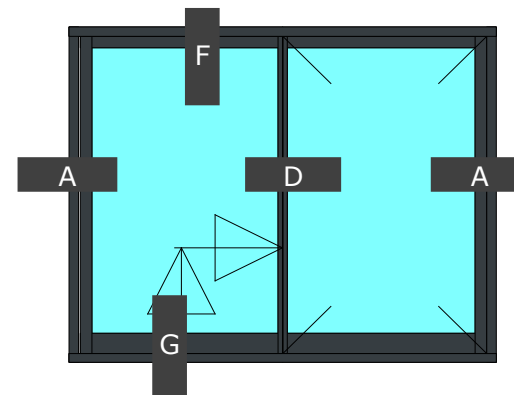


(Section A aluminium drip sill on the top only)
 (Section C is without the top aluminium drip sill on the centre post)

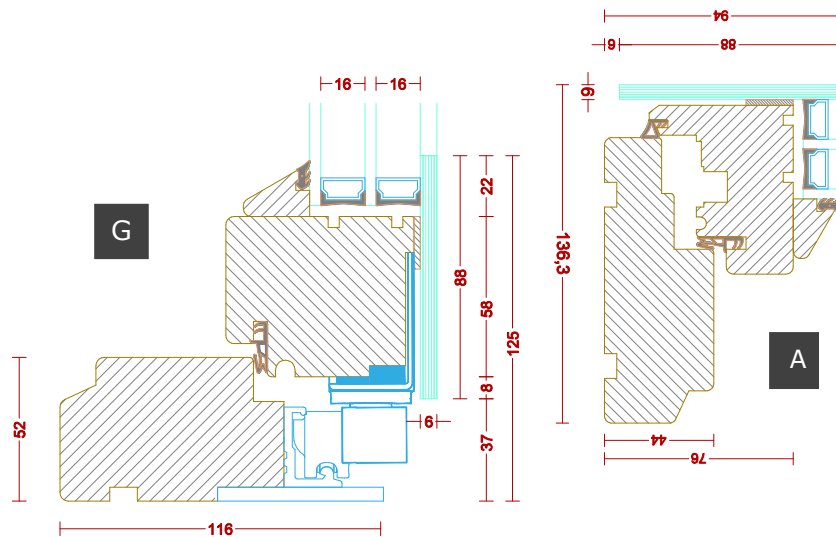


Sliding door

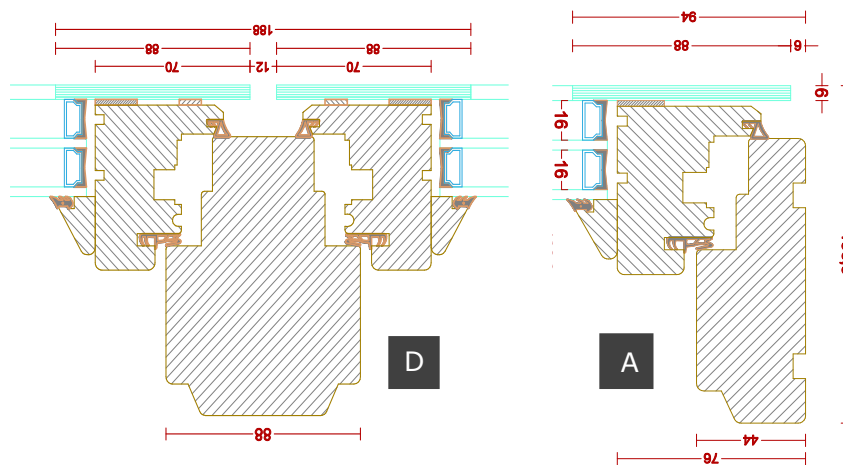
Min. width: 1,988 mm
 Min. height: 1,893 mm
 Max. width: 2,988 mm
 Max. height: 2,453 mm



Vertical section



Horizontal section



Technical specification

Timber:

Slow growing finger jointed heartwood pine timber

- Frame: 44 x 115 mm
- Sash: 58 x 68 mm
- Centre post/transom: 182 mm
- Floating mullion: 138 mm

Glass:

3 layer super low E glass 6-16-4-18-4, 0,9 W/m²k (possible down to Ug-0,5 W/m²k)

6 mm toughened safety glass outside with 88 mm coloured glass edge.

Fitting of glass:

Smooth glazing beads inside, weather proof strong 3M tape on the outside.

Weather seals:

2 weather seals type Primo TKS.

Surface treatment:

Impregnation, 2 layer of base coats, spray finished with a thickness of minimum 120 µ.

Top drip sill:

Coloured aluminium drip sill on the top frame for fitting on site, extend 3 mm over frame, allow for at least 8 mm gap between wall and frame. Has the same colour as the outside glass. Variations may occur due to the different surface of aluminium and glass.

Handle:

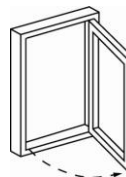
Anodised Hoppe Tokyo F9.

Hardware:

Siegenia or IPA espagnolette with 2 – 5 locking points both front and back. Solid security striking plates front and back. Security side guided stainless steel hinges with friction brake (side and top guided). Security aluminium hinges with friction brake (side hung).

Fitting:

10 mm gap between wall and frames on all 4 sides is needed for fitting the items. Side hung windows cannot be joined together on the hinge side. Where there is a centre post 2 side hung window cannot both be fitted with hinges on the centre post. If this is needed side guided or top guided items needs to be chosen.



Side hung

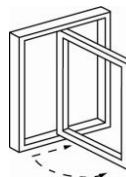
With hinges/friction brake

Min. width: 448 mm

Min. height: 713 mm (French door: 1,848 mm)

Max. width: 898 mm (French door: 988 mm)

Max. height: 1,843 mm (French door: 2,453 mm)



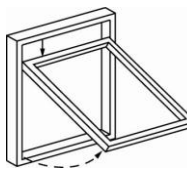
Side guided:

Min. width: 388 mm

Min. height: 488 mm

Max. width: 898 mm

Max. height: 1,798 mm



Top guided:

Min. width: 388 mm

Min. height: 343 mm

Max. width: 1,498 mm

Max. height: 1,498 mm