



hansen products
Steel-look & Slimline Solutions

HansenMillennium®

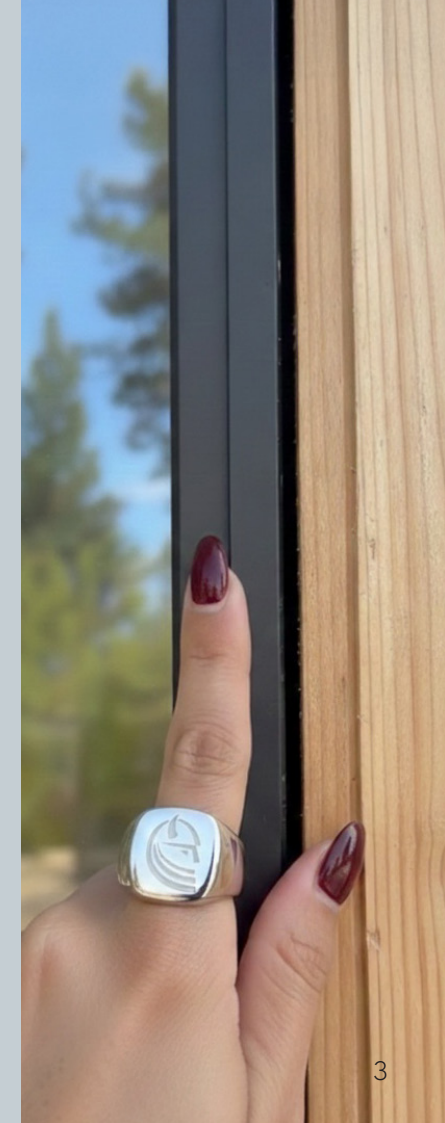
Hansen Millennium was initially crafted to address the challenges of renovating and replacing steel windows in older buildings, particularly tackling issues like cold bridges and inadequate insulation.

It offers a revolutionary solution with the slimmest aluminium profiles available, making it the ideal replacement for traditional steel systems. These slim profiles deliver exceptional thermal performance and modern aesthetics. Its advantages, including a variety of shapes and versatile bending capabilities, align perfectly with contemporary architectural trends favoring slim profiles and authentic dividers.



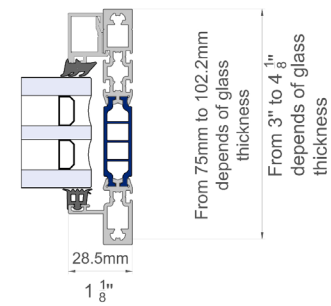
Main Features

- **Slimline Profiles:** Get the most modern look with super slim aluminium frames - the slimmest on the market!
- **Complex Window Geometries:** Whether you prefer circular or arched windows, we can create them to match your unique taste.
- **Easy Installation:** Enjoy hasslefree installation with pre-glazed windows, saving you time and effort.
- **Adaptive Design:** Stylebars can be applied on the interior, exterior, or both – offering maximum design & flexibility for bespoke projects.
- **Concealed Sash:** For inward opening windows we have hidden the frame for a sleek and stylish look.
- **Easy Conversion:** Combine traditional curtain wall designs with our innovative window system - enhancing both functionality and aesthetics.
- **Large Dimensions:** Our windows can be impressively large. In fact our largest window to date measured 2,44m (8 feet) in width and 12,8m (42 feet) in height. Imagine the incredible views!
- **Low emission aluminium:** Millennium is manufactured with low emission aluminium and can be manufactured with recycled aluminium if required.

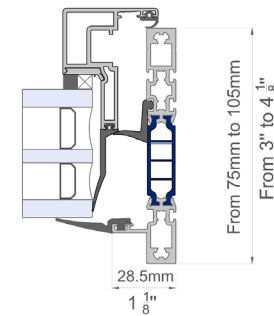


Ultra Slim Design

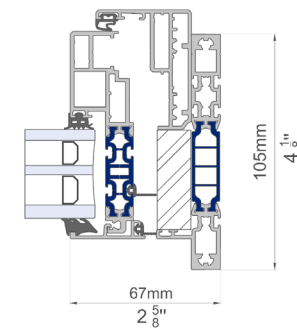
Fixed



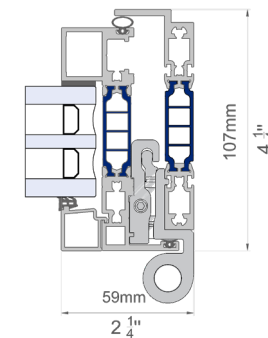
Tilt & Turn (Hopper)
(Concealed hinges)



Awning
(Concealed hinges)



Door & Outward
opening swing windows
(Heavy solution, visible hinges)

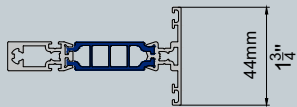
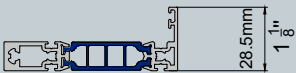


All window solutions can be double or triple glazed

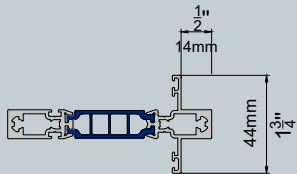
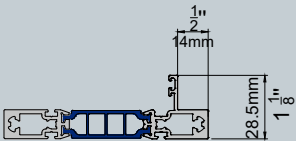
Profiles

All profiles can be manufactured with different "nose" profiles

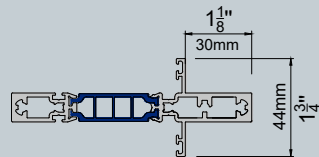
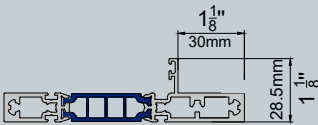
FLAT



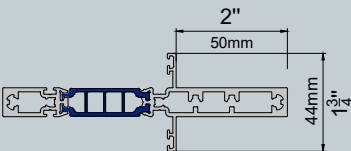
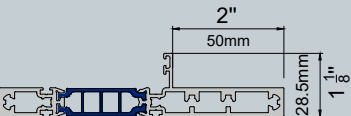
STANDARD



LARGE NOSE



EXTRA LARGE NOSE



Operable size details

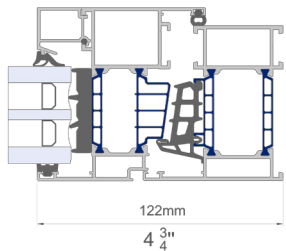
Defining the exact maximum dimensions for HansenMillennium windows can be a challenging task.
The size of your windows depends only on the width-to-height ratio and the number of mullions.

Below we present the critical dimensions of window sashes.
We trust that this information will be invaluable during the design phase.

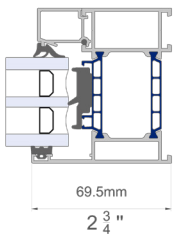
	Fixed	Tilt & Turn Hopper Concealed hinges	Awning & Casement Concealed hinges	Door & Casement SidehUNG Heavy solution Visible hinges
Max weight	500 kg / 1100 lb	150 kg / 330 lb	180 kg / 400 lb	150 kg / 330 lb
Max area	15 m² / 160 ft²	3 m² / 32 ft²	3 m² / 32 ft²	3 m² / 32 ft²
Min. width	20 cm / 8"	38 cm / 1' 3"	43 cm / 1' 5"	60 cm / 1' 12"
Max. width	590 cm / 19' 4"	150 cm / 4' 11"	160 cm / 5' 3"	150 cm / 4' 11"
Min. height	20 cm / 8"	46 cm / 1' 6"	48 cm / 1' 7"	60 cm / 1' 12"
Max. height	590 cm / 19' 4"	305 cm / 10'	250 cm / 8' 2"	305 cm / 10'

HansenMillennium versus others

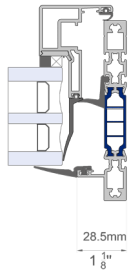
HansenMillennium combines modern design with exceptional functionality, offering numerous advantages compared to standard aluminium windows. Discover why HansenMillennium is an investment that will revolutionize your interior spaces.



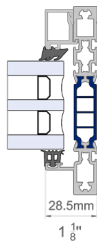
TYPICAL ALUMINIUM TILT & TURN WINDOW



TYPICAL ALUMINIUM FIXED WINDOW



HansenMillennium TILT & TURN



HansenMillennium FIXED WINDOW

Typical window system



HansenMillennium



Minimalistic Appearance

HansenMillennium stands out with its elegant, minimalist design. Thanks to its slim profiles, this window perfectly complements both modern and classic interior designs. It provides an unobstructed view of the surroundings, allowing ample natural light to flood your living spaces.

Enhanced Thermal Insulation

Compared to traditional aluminium windows, HansenMillennium offers significantly improved thermal insulation. You can find energy ratings on later pages in this brochure. Utilizing advanced technologies and materials, this window helps minimize heat loss, resulting in lower heating and cooling bills.

Quiet Operation

Thanks to precisely engineered mechanisms of concealed hinges, HansenMillennium operates quietly. You will avoid annoying noises when opening and closing the windows - ensuring daily comfort.

Exceptional Durability

Our slim-profile aluminium windows are designed for durability. Aluminium is corrosion resistant, meaning HansenMillennium will maintain its excellent properties for years with minimum need for frequent maintenance.

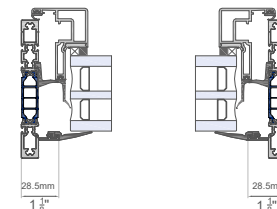
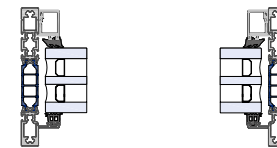
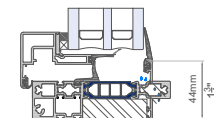
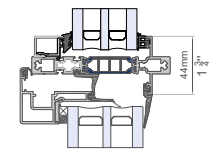
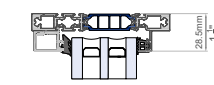
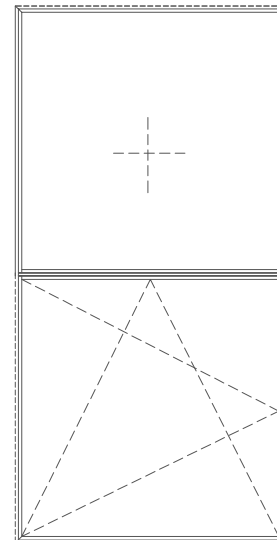
Tailored to Your Needs

HansenMillennium offers a wide range of customization options, including colours, sizes and types of glass. You can personalize them to your preferences and your home's style.

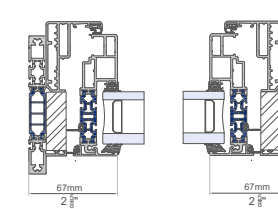
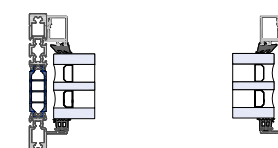
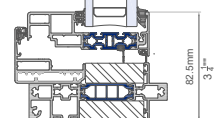
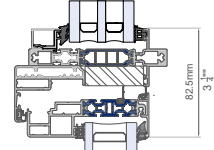
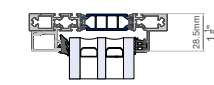
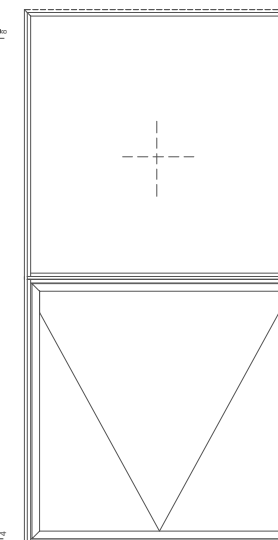
Typical Section Details



TILT&TURN + FIXED



AWNING + FIXED



Various Window Shapes



Examples

HansenMillennium combines modern design with exceptional functionality. In the world of aluminium windows we take pride in offering more than just traditional designs. Our range of unconventional shapes opens doors to endless creative possibilities. From sleek and contemporary to uniquely artistic, our aluminium windows challenge the norm and invite you to explore innovative architectural expressions.

These unconventional shapes go beyond standard rectangles and squares. They offer a canvas for your imagination, making a bold statement in design and functionality. Our windows are not just practical - they are a reflection of your creativity and unique style.

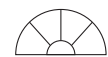
Whether you are an architect seeking to push the boundaries of design, a homeowner yearning for windows that stand out or a builder looking to make a statement, our aluminium window shapes have you covered. They are a testament to the infinite possibilities aluminium can offer, delivering both aesthetics and performance.



Your unique ideas are our inspiration

Below are just a few typical examples of window shapes that can be made - but do not hesitate to share your special design ideas with us.

All shapes are based on a combination between true dividers and grids/style-bars if necessary.



HALF ROUND



HALF ROUND



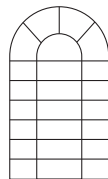
ROUND CORNERS



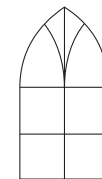
INVERTED ROUND CORNERS



ELLIPSE



ROUND TOP



GOTHIC



GOTHIC



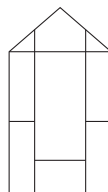
ROUND TOP



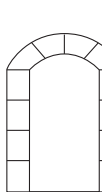
POLYGON



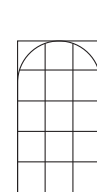
HALF ROUND



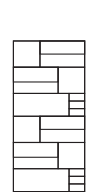
PEAK



SEGMENTED ROUND TOP



SIMULATED ROUND TOP



RECTANGLE



TRAPEZOID

and many others ...



Simulated Divided Lite

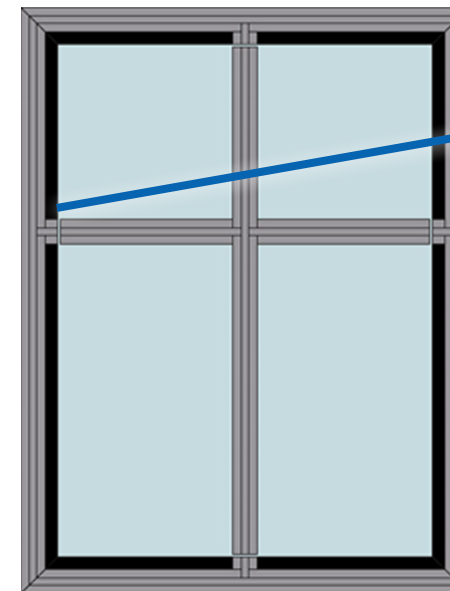
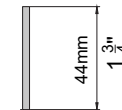
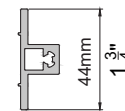
SDL are a decorative element that can be added to windows to enhance their visual appeal. These bars are designed to mimic the look of traditional windows with divided panes.

Simulated Divided Lite (SDL)

This solution has the advantage of providing a consistent and indistinguishable external appearance between our stick-on grids and true dividers. This makes maintenance easy and enhances the overall curb appeal of your property while offering customization options to suit your design preferences.

We pay attention to detail!

Special attention should be given to details like how the stick-on profile is trimmed when used with an opening window.

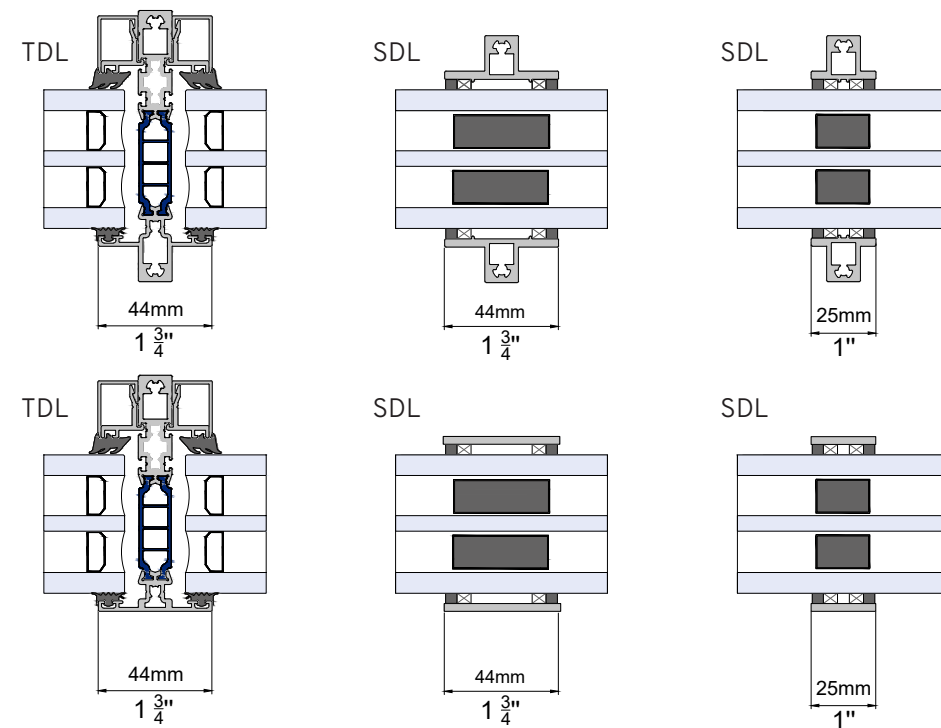


SDL vs TDL Details



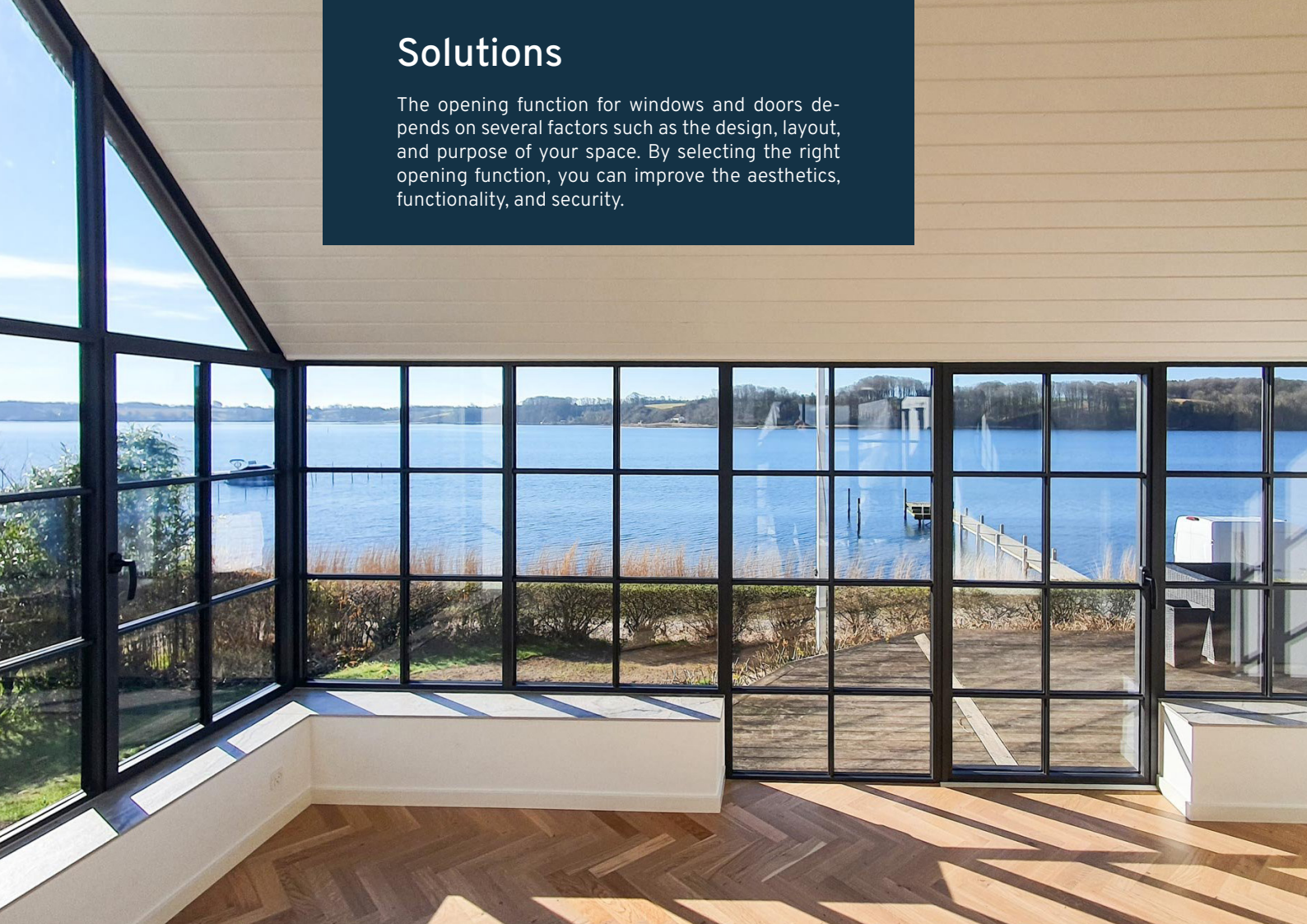
SDL (Simulated Divided Lites) vs TDL (True Divided Lites)

Our SDL grids can have the same size as true divider profiles - they look identical from the outside. But if you are looking for a slimmer SDL profile it is also an option. They can be supplied in two different colours to match your interior.

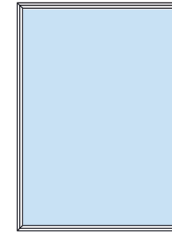


Solutions

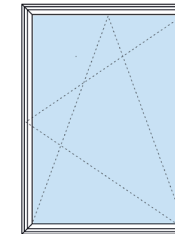
The opening function for windows and doors depends on several factors such as the design, layout, and purpose of your space. By selecting the right opening function, you can improve the aesthetics, functionality, and security.



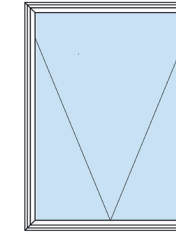
Window
Fixed



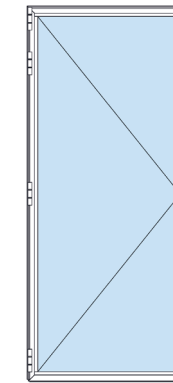
Tilt&Turn (Hopper)
Inward opening



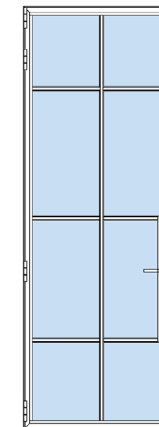
Awning (Top Hung)
Outward opening



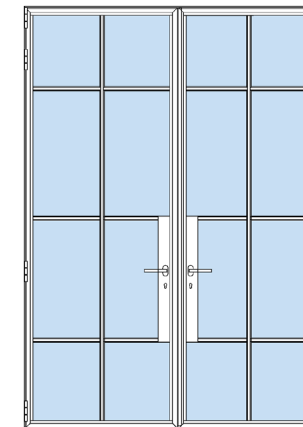
Outward opening



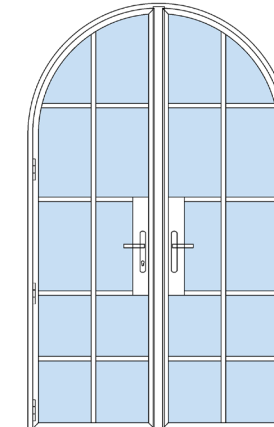
Single steel look door
Outward & Inward opening



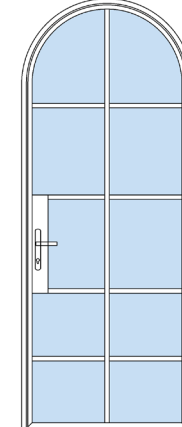
Double steel look door
Outward & Inward opening



Arched double door
Outward & Inward Opening



Arched single door
Outward & Inward Opening



Handles

Window and door handles are crucial for both function and aesthetics. We offer standard handles but can also provide unique custom-made handles to match style and preferences. The classic handles can be supplied in RAL colours or natural stainless steel.

Prime select

S **B**



Steel soft

S **R**



Steel touch

R



Flexa flow

R



S

Stainless steel natural

B

Stainless steel Black

R

All RAL color

Colours

HansenMillennium windows and doors are delivered with surface treatment customized to our customers preferences and architectural style.

We offer our windows and doors in all RAL colours or special color or anodized aluminium.

It is possible to use different colors for the exterior and interior of the windows.



Windows & Doors



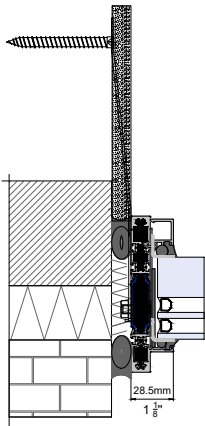
Fire Safety

HansenMillennium EI60 has been tested for fire resistance from both the inside and outside according to EN 1364-1:2015.

The fire test of Hansen Millennium EI60 includes window elements and is only approved as fixed window sections.

HansenMillennium EI60 is based on the Hansen Millen-nium system.

Therefore, it can be combi-ned with standard windows without any visual differen-ce.



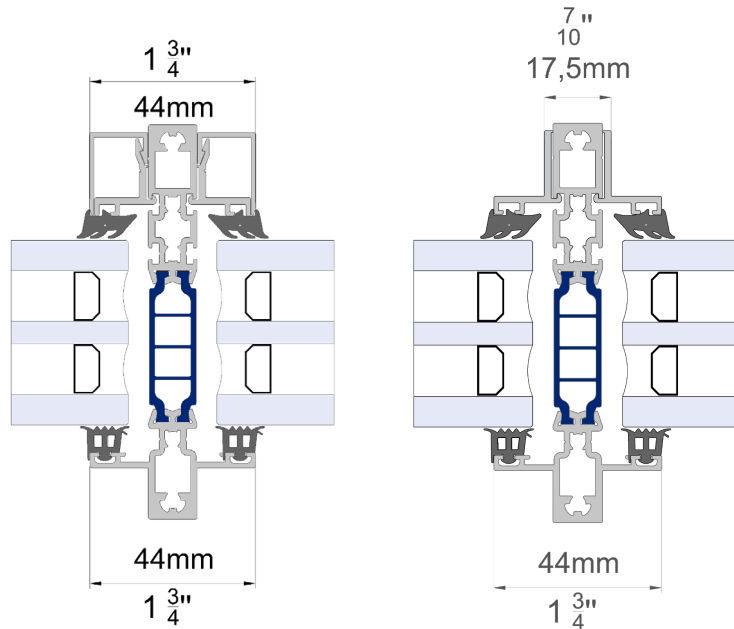
Energy Performance

Hansen Millennium windows and doors have undergone thorough testing, and their thermal resistance has been certified by the National Fenestration Rating Council (NFRC).



Window Section	Sections	DGU (Ug=1,0) Double glass unit	TGU (Ug=0,5) Triple glass unit
		1,2 W/(m²K) 0,32 Btu/h ft² °F	0,75 W/(m²K) 0,19 Btu/h ft² °F
		1,3 W/(m²K) 0,32 Btu/h ft² °F	0,84 W/(m²K) 0,19 Btu/h ft² °F
		1,3 W/(m²K) 0,35 Btu/h ft² °F	0,91 W/(m²K) 0,24 Btu/h ft² °F
		1,3 W/(m²K) 0,35 Btu/h ft² °F	0,91 W/(m²K) 0,24 Btu/h ft² °F

Glazing Bead Options



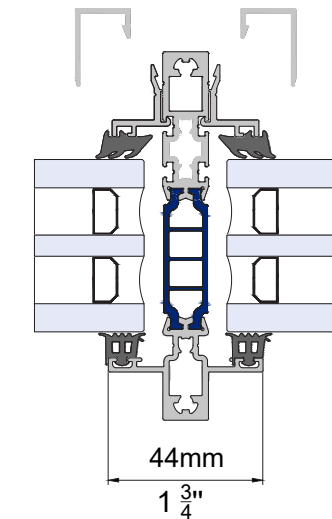
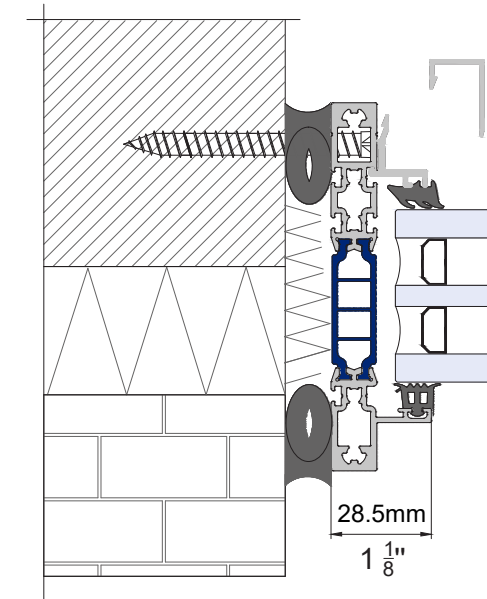
Window installation
has never been easier!

- Double glazing bead
- Installation direct through frame with factory prepared holes
- Fully glazed window sections without the need to remove the glass

Double glazing bead

The glazing bead inside the window, pre-drilled during manufacturing, holds the glass in place.

Optionally, you can use an angled L shape glazing bead that emphasizes the slimness of the profiles and makes them resemble steel elements.



Easy Installation

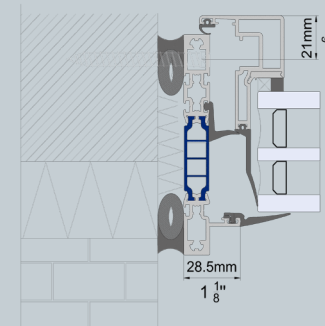
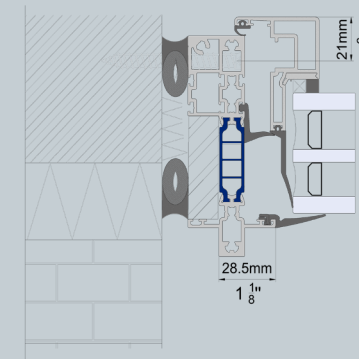
Three recommended ways of installing fully glazed windows



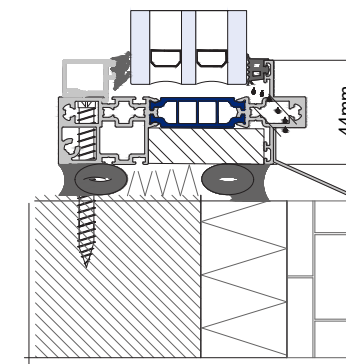
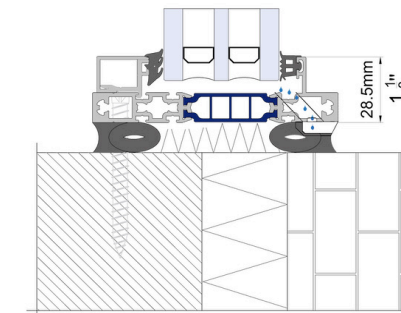
Installation option 1: Installation direct through frame

The first and most popular is the previously shown "directly through frame" installation.

Tilt & Turn



Bottom Frame Detail/Drainage



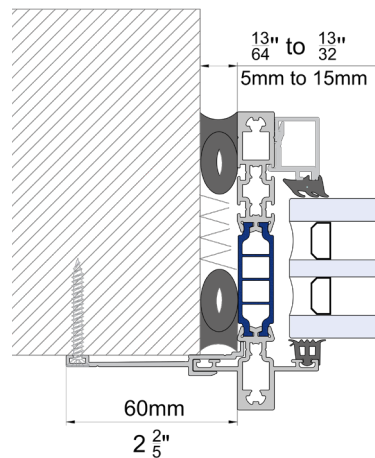
Installation option 2: Nail flange

Only recommended for FIXED (non-openable) elements.

The second method of installation involves using a nail flange.

Our nailing flange plays a pivotal role in securing your window to the wall sheathing during installation, ensuring a stable foundation for further adjustments with shims and screws.

This flange is not just about structural integrity; it also works in harmony with flashing and a weather resistant barrier to safeguard your home against wind and water, providing peace of mind and long-lasting protection.

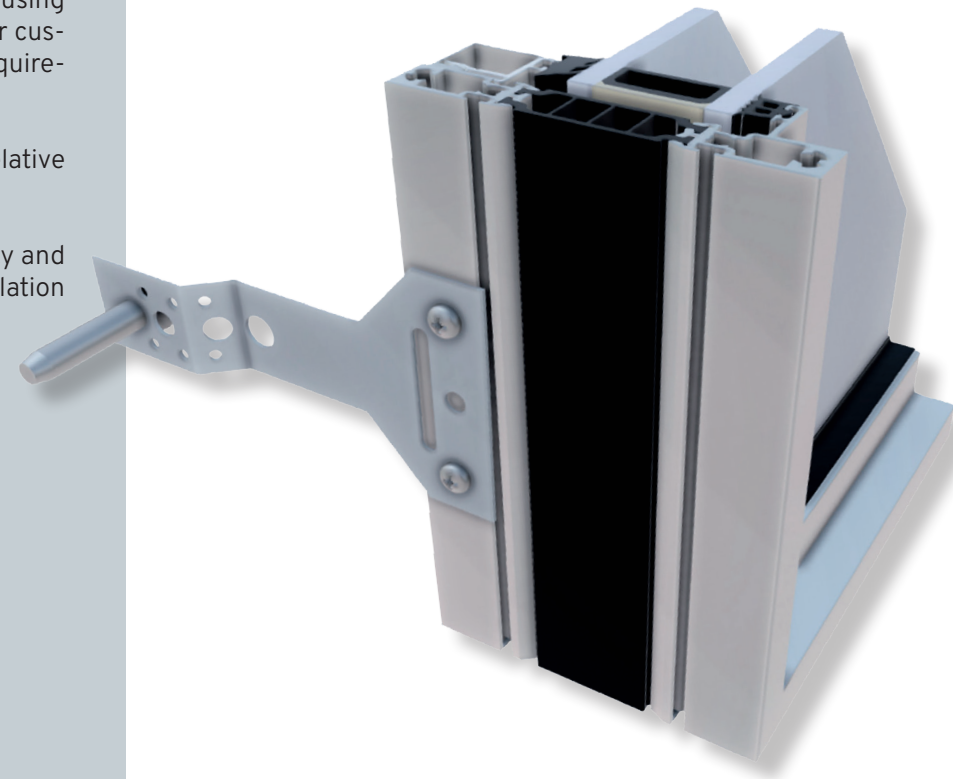


Installation option 3: Installation with brackets

The final type of installation involves using brackets, which can either be standard or custom made to suit the specific project requirements.

Brackets enable to offset the window relative to the supporting wall by a few inches.

The system was designed for functionality and ease of use by installers if typical installation direct through frame is not possible.



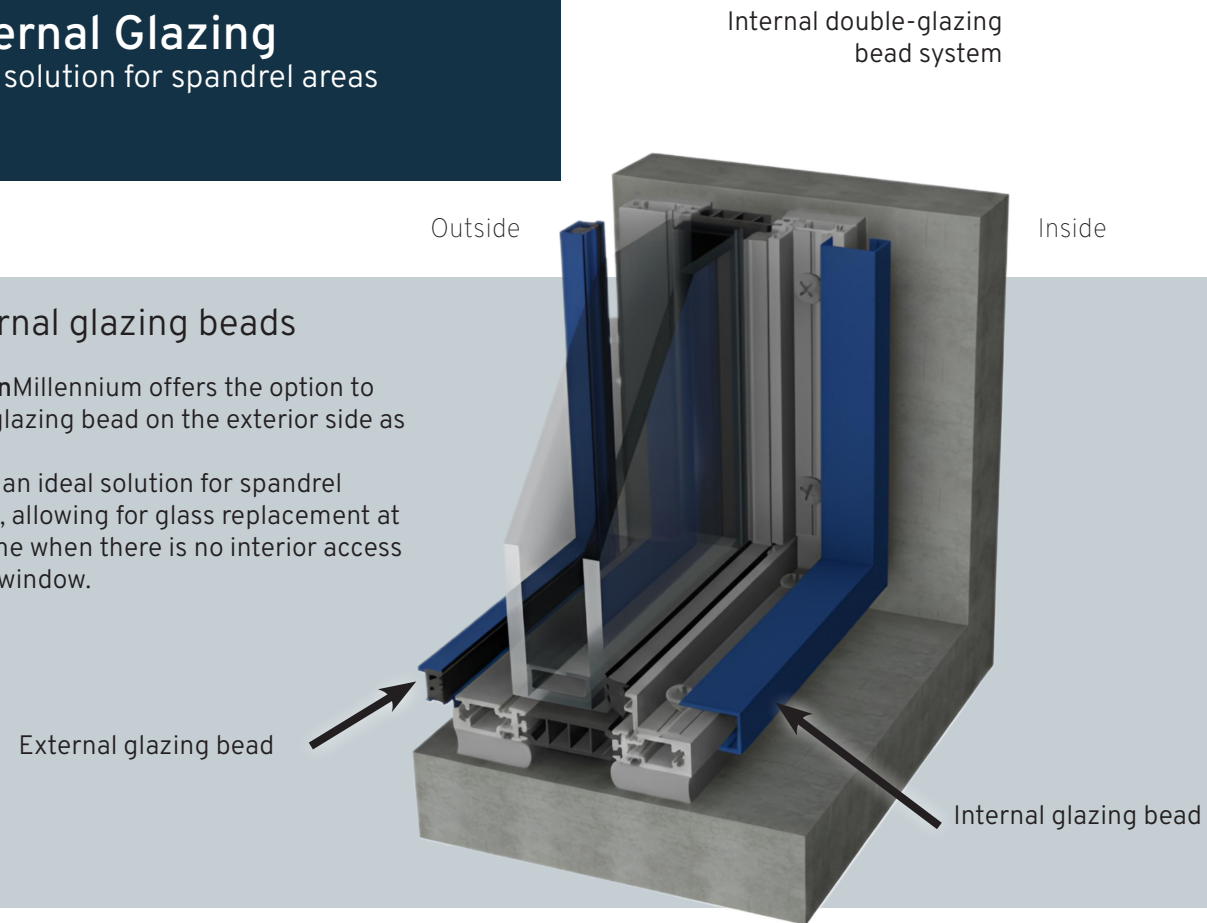
External Glazing

Great solution for spandrel areas

External glazing beads

HansenMillennium offers the option to use a glazing bead on the exterior side as well.

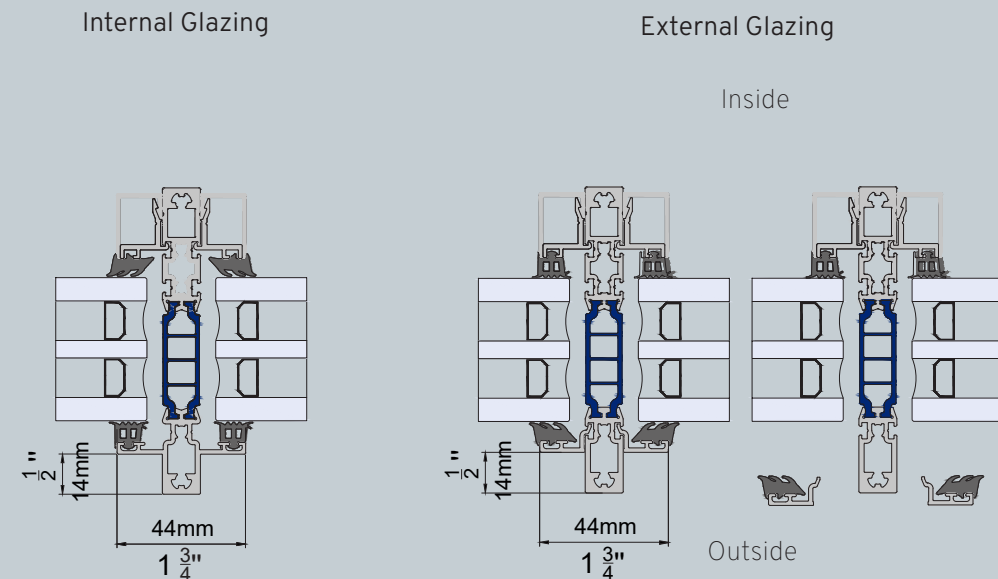
This is an ideal solution for spandrel panels, allowing for glass replacement at any time when there is no interior access to the window.



External glazing

Below you will see typical section details that demonstrate how the profile looks the same whether it has an external glazing bead or not.

There is no noticeable difference.



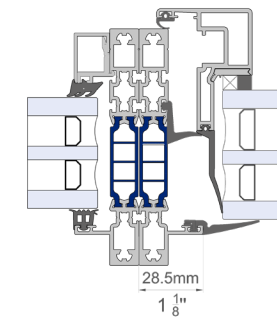
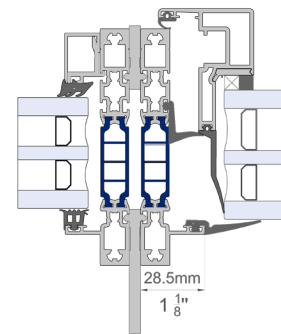
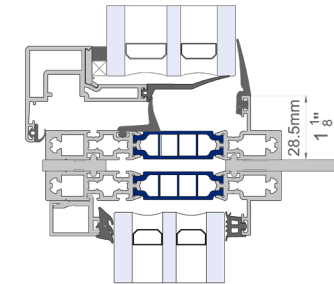
Joining the windows

For easier delivery & better statics

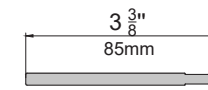
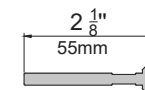
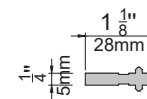
The **HansenMillennium** window system makes it easy to connect window partitions.

This also means that we can replace traditional curtain walls with our slim-profile window system while meeting technical requirements.

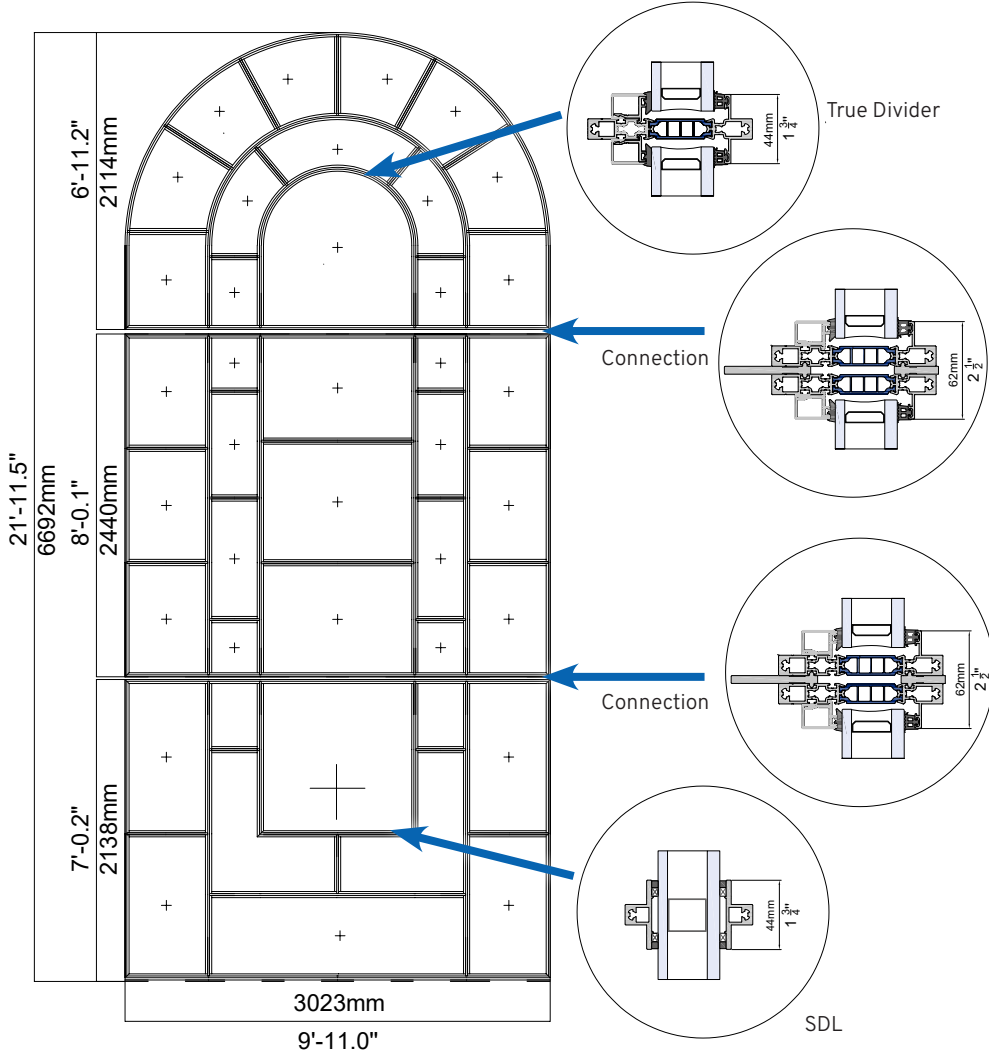
Check out the elegance of our reinforcing profiles.



Connection/Reinforcement profiles sizes possibility



Showcase project



Concealed Sash

For inward opening windows we have hidden frame, so it is practically invisible from the outside.

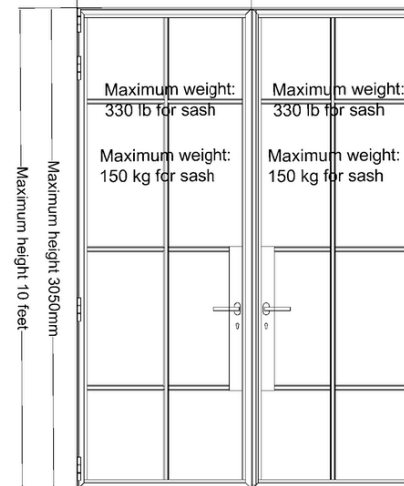


Steel Look Door

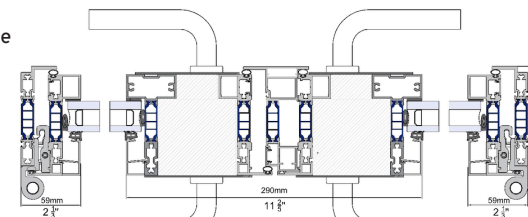
Inward & Outward opening



Maximum width - 5 feet for sash
Maximum width - 1500 mm for sash

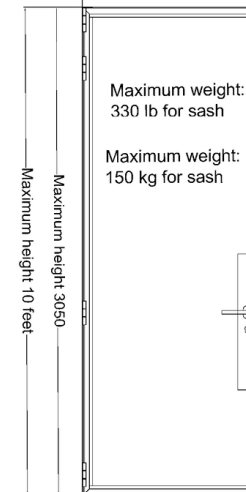


Inside

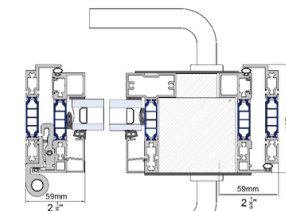


Outside

Maximum width - 5 feet for sash
Maximum width - 1500 mm for sash

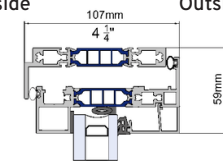


Inside

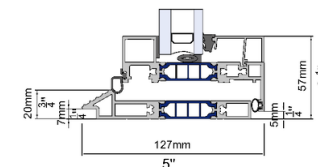


Outside

Inside



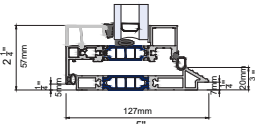
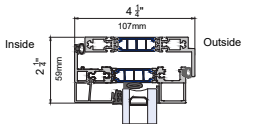
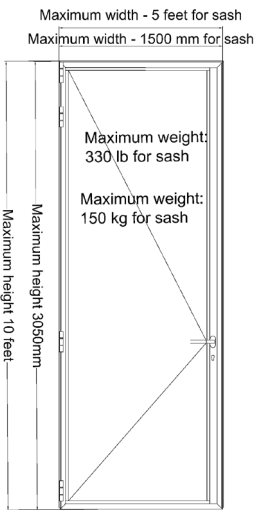
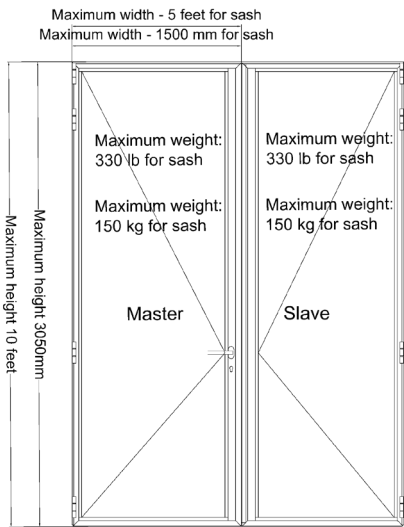
Outside



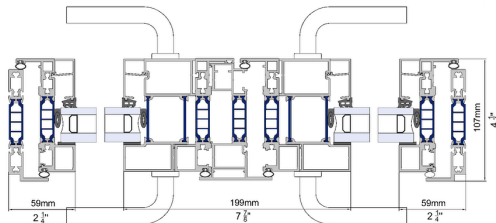
Illustrations according to European norms

Standard Doors

Inward & Outward opening

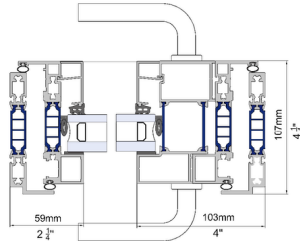


Inside



Outside

Inside



Outside

Illustrations according til European norms

Inspirational Projects





















HansenGroup

HansenProducts is part of the HansenGroup, a company with over **100 years of heritage** in engineering and fenestration solutions.

We operate modern design, project management, and production facilities across **Denmark, Sweden, Norway, Poland, and the United Kingdom.**

Our products are installed on multiple continents, and Hansen solutions can be found in landmark residential, commercial, and cultural projects around the world.



We operate through a unique international network with locations in Denmark, Poland, United Kingdom, Sweden, and Norway.

Our organisation is equipped to support projects of all scales – from bespoke residential villas to complex, large-scale commercial developments across international markets.

We build on strong traditions of quality craftsmanship, combining them with modern production methods, professional project management, and a highly qualified technical team.

We work in close collaboration with architects, developers, main contractors, and specialist steel window and façade installers to deliver unique, cost-effective, and sustainable solutions tailored to each project.



Quality & Sustainability

We prioritize delivering high-quality, defect-free construction on time and at the agreed-upon price.

We work with a modern quality assurance system which is an integral part of our manufacturing and construction process.

The quality assurance system follows the window all the way through the factory and finishes when the window is installed in its final position.



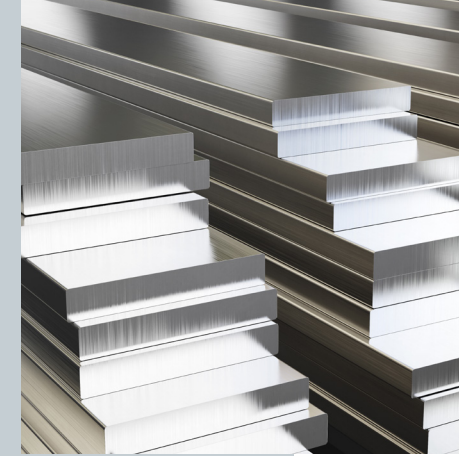
HansenGroup is dedicated to meeting the highest demands for energy performance in windows. Our designs prioritize energy efficiency to provide a comfortable indoor environment while minimizing energy consumption and costs.

Over the years, we have been involved in a wide range of projects which have obtained certifications such as DGNB, LEED and BREEAM.

We have a longstanding tradition of actively collaborating with designers to identify and implement solutions that promote positive change and improve the overall impact of our practices.

This includes the selection of materials, indoor climate and working environment, and energy savings focus during construction process of minimizing waste.

HansenGroup employees, through their personal qualities and competencies, contribute to our ability to efficiently adapt the process and production towards energy efficient construction.



We can, upon request, provide our Hansen-Millennium windows and doors in recycled aluminum or low-emission aluminum from our supply chain.

Glass and aluminum are generally recycled and our regular waste collection partner is environmentally certified.





[W: hansen-products.com](https://www.hansen-products.com)

 **hansen** products

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