



BB Windows & Doors™
Bertrand

PRODUCT CATALOGUE

#THEUNIQUEYOUCHOOSE

Global Premium Windows & Doors Manufacturer

**Always high quality finish • Premium equipment in standard
Many different price range products • Short production lead time
Customized products**

Why BERTRAND®?

Because BERTRAND® have been building up their brand since 1969. In that time we have fulfilled the dreams of our numerous customers in Poland, Europe and worldwide. BERTRAND® is a renowned manufacturer of windows, doors and curtain walls. We are very proud to have earned the respect of investors in a variety of sectors: residential, commercial, historical restoration, and even the most demanding field of passive and energy efficient architecture. BERTRAND® has a lot exclusive solutions such as heating windows.

What is the highest quality of BERTRAND® products a result of?

The highest quality of our products is achieved by the use of the most up-to-date technologies and continuous investments in R&D. Being one of the few manufacturers in Poland to have successfully introduced modern solutions into the market making us a pioneer of innovation and development within this sector. The quality, safety and comfort of our products are confirmed by numerous prestigious awards and certificates. All products manufactured in high quality finish. Examples of pioneering solutions: passive windows, wooden aluminium windows with glass corner.

320,000

satisfied
customers

450,000

completed
projects

54

years of
experience

Ask for certified products



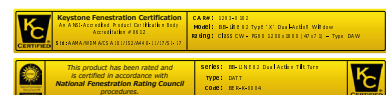
Windows tested
in NCTL and QAI



Thermal tests and simulation
according to NFRC and AAMA



Windows tested in high-velocity
hurricane zones (HVHZ)



Factory and products certified at Keystone

Structural tests according to North American Fenestration Standard – AAMA/WDMA/CSA 101/I.S.2./A440

Who we are



Private project in Zukowo, Poland



Investment project in Gdynia, Poland



Investment project in Sopot, Poland



Investment project in Jastrzebia Gora, Poland

INFRATHERM

HEATING WINDOWS

What if windows could become the only source of heating system?

**GOODBYE CONDENSATION & COLD.
HELLO COMFORT & WARMTH.**

We choose glass to connect our space with the world outside. But what if the elements compromise our comfort indoors? It was a problem largely beyond your control, until now.

With INFRATHERM windows, you can bring the comfort of smart warmth to interior. Now your glazing can replace unsightly bulky radiators freeing up the beauty of uncluttered walls, and floors. At the touch of a switch, you enjoy total control to create a space of absolute comfort by design. Even misting and condensation are a thing of the past.



read more

 **Windows & Doors™**
Bertrand

The unique you choose

Private project in Wejherowo, Poland

DESIGN

Good design matters

The **BERTRAND** brand symbolizes ideas which are unique, modern and authentic – never boring and always full of imagination and inspiration.



various types of materials:
uPVC, aluminum, wood and
combinations of these materials



countless surface options,
e.g. acrylcolor, decorative foils,
painting - even in case of uPVC profiles



modern and
classic designs



aesthetic in
every detail



special surface treatments, e.g.:
oiled and sandblasted wood

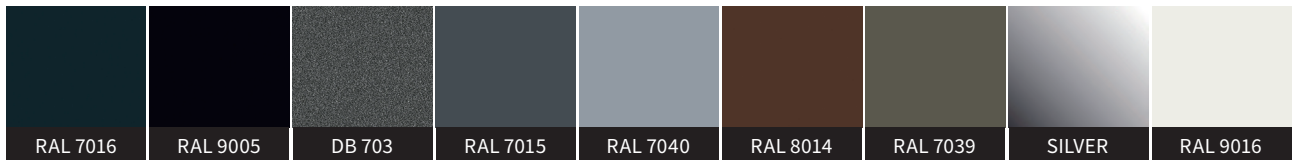


ACRYLCOLOR® technology

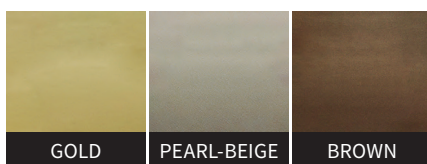
Acrylcolor® technology is a very unique method of surface coloring, because it differs with an extended process called coextrusion, which involves heating acrylic granules in a second tank, which are then applied to the PVC profile and smoothed.

- **UV resistance / longest color retention on the market / very slow product aging:** Acrylic technology, first used in the rear red stop lamps of Mercedes-Benz cars, prevents fading and color loss over the product's lifespan, contributing to road safety, especially for elderly vehicles.
- **Design:** Acrylcolor in the Kombisystem Plus system is characterized by a beautiful, satin design. Externally, it resembles aluminum more than PVC, with its unique character.
- **Scratch resistance:** The thick, hard acrylic surface is resistant to scratches, and any scratches are easily removed with water, sandpaper, and manual polishing.
- **Heat resistance:** Acrylic is more resistant to heating than PVC, protecting profiles from deformation even in locations where temperatures can reach up to 120 degrees Fahrenheit.
- **Stain resistance:** Standard dirt does not adhere to the acrylic coating, reducing the need for cleaning compared to other materials.
- **Diverse color range:** The standard color palette includes nine popular market colors (grays, browns, black), and for larger orders, the full RAL palette is available, along with special metallic colors and anodized shades.

Standard colours for system



Examples of colors from the special series



NOTE! The colors shown in the catalog may differ from the actual colors you will find in our offer.

Colour code similar to RAL.



ENERGY SAVINGS

Conserve energy to preserve the future

Energy-saving BERTRAND windows reduce heat loss through windows and mean less drafts and cold spots. On warm days, they allow you to limit heat penetration and therefore the need for air conditioning. It's pure saving.



energy-saving windows



always sensational U-Factor



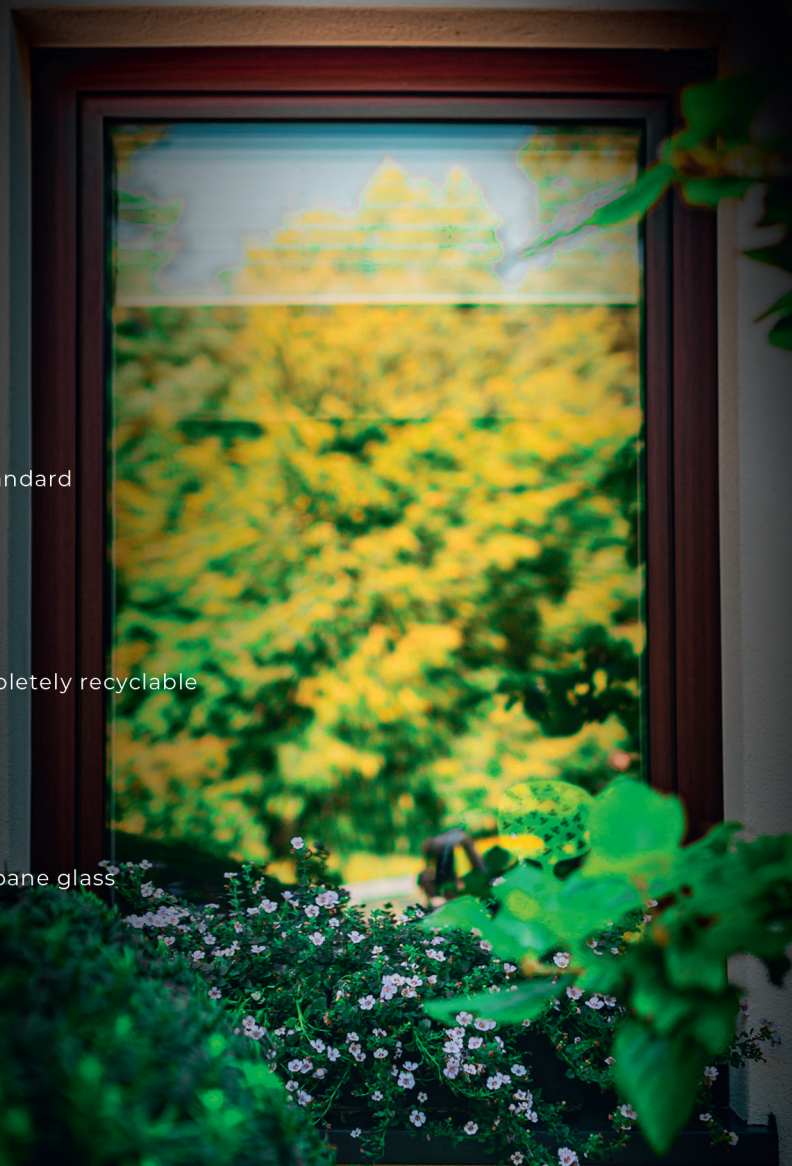
warm edge spacer bar in standard



our uPVC products are completely recyclable



double, triple or quadruple pane glass



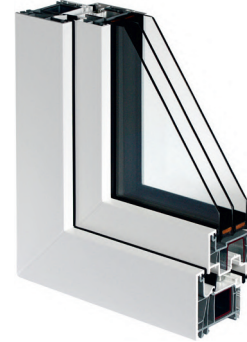
The unique you choose

Private project in Gdynia, Poland

We offer a wide selection of windows and doors made of uPVC, wood and aluminum

uPVC / Aluminum-clad uPVC

- profile systems: uPVC, uPVC-aluminum
- meets current U-Factor and SHGC requirements
- surface treatments: wood / metallic effect decor foils, acrycolor, dual color, painting with metallic colors
- high security standard (3-4 window locking points as standard)
- wide range of glazing options: double/triple pane security, sun-protection, tinted and sound glass



Wood

- various construction depths: 2.7 in. (68,6 mm), 3.1 in. (78,7 mm)
- wide selection of timber species, e.g. pine, meranti, oak, spruce, siberian larch
- variety of timber finishes, e.g. brushed, sandblasted, oiled
- full RAL palettes, dual color, transparent finishes, 'untreated timber' look, painting with metallic colors



Aluminum-clad wood

- various construction depths
- wide selection of timber species, e.g. pine, meranti, oak...
- variety of timber finishes, e.g. brushing, sandblasting, oiling
- full RAL palettes, dual color, transparent finishes, 'untreated timber' look
- wide selection of aluminum profiles



Aluminum

- wide spectrum of construction options: dual action / casement windows, doors, sliding systems, folding systems, pivot doors, fire-resistant and smoke control doors
- meets current U-Factor and SHGC requirements
- high durability
- full RAL palette, wood effect finishes, structural coatings, dual colors



SAFETY AND COMFORT

Lead a comfortable and safe life

The key to comfort and safety is a balanced approach to the window production process. The highest quality of BERTRAND® products gives our customers peace of mind.



4 anti-burglary locking points per sash, in standard makes window more tight and wind resistant



micro ventilation



2 mm steel reinforcement in uPVC windows



greater stability, thermal performance, water resistance due to glued glass to window sash



easy adjustment in all directions



fully equipped MACO hardware



Windows & Doors™

Bertrand



The unique you choose

Private project in Warzno, Poland

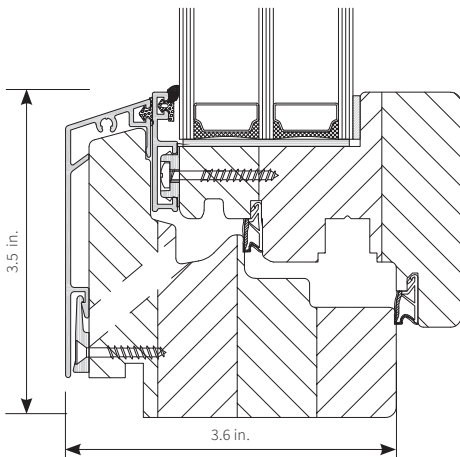
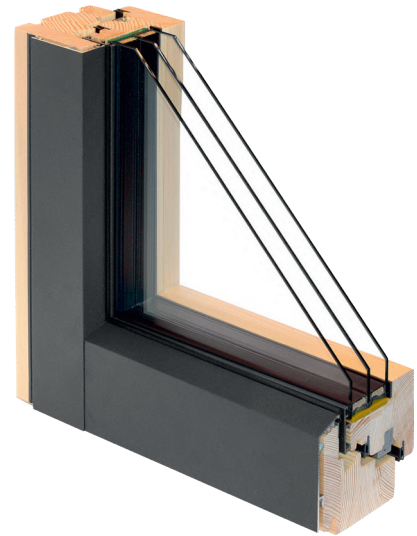
SYNERGIC

Opposites attract. Modern or traditional? Light or sturdy? Durable or noble? Aluminum or wood?

Thanks to the use of wood and aluminum, our Synergic product line is extremely durable and resistant to weather conditions. Following the current architectural trends, the Synergic windows design will be the true embellishment of your home.

			
Heat transfer coefficient U _f from: 0.16 Btu/hft²F	System depth: 3.6 in.	SHGC: 0.15 - 0.25	Vt: 0.29 - 0.43

- hidden sash
- various types of wood
- high resistance to weather conditions
- 3 sealing layers
- hidden hinges as standard
- burglary resistance in RC1n class as standard, possible RC2 class
- modern profile shape in line with the current trends in architecture
- high resistance to weather conditions
- numerous colors of wood and aluminium
- more sunlight than other wood-alu systems due to low window profiles
- possible without aluminum cladding



**FRAMES
33%
LOWER**
THAN OTHER
WOOD-ALUMINUM
SYSTEMS

Certified for NFRC and AAMA



HST PANORAMA

Aluminum-clad wood lift and slide doors

BERTRAND® hardware features a full range of the highest quality from a single source. Including drive gear, rollers, sealing profiles and thresholds. Product innovations include the revolutionary retractable locking hooks and flush-closing striker plates. Other new features in addition to frameless fixed glazing include narrow timber profiles for very large-format doors up to 9.4 ft (2,9 m) sash height and 881 lb (400 kg) sash weight.

			
<p>Heat transfer coefficient U_f from: 0.20 Btu/hft²F</p>	<p>System depth: 3.6 in.</p>	<p>SHGC: 0.13 - 0.38</p>	<p>Vt: 0.24 - 0.56</p>

Frameless fixed glazing

In addition to narrow frame friezes, frameless fixed glazing serves to continue the trend towards the ultimate design goal of achieving large-area glazing with minimal framing.



Frameless fixed glazing

BB-LINE 82

Excellent price-quality ratio

The BB-LINE window series is a perfect combination of functionality and aesthetics at an affordable price. High thermal parameters, excellent design and a wide range of colors all at a reasonable price. You care about the time and availability? This model is perfect for you.



The heat transfer coefficient
 U_f from: 0.15 Btu/hft²F



System depth:
3.2 in.

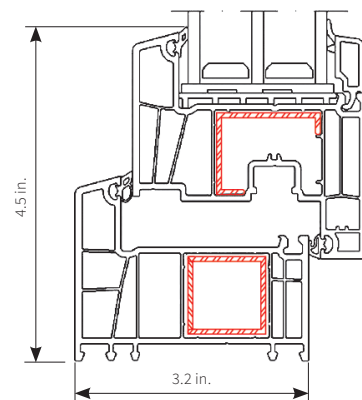


SHGC:
0.14 - 0.38



Vt:
0.27 - 0.58

- system depth 3.2 in. (81,3 mm)
- 6 chamber system
- 2 sealing lines
- modern design and advanced technological solutions
- available in different colors
- the thickest used steel reinforcements in the industry around whole frame and sash
- burglary resistance in RC1n class as standard, possible RC2 class
- great choice for commercial buildings
- available frame with coextruded nailing fin



Certified for NFRC and AAMA



KOMBISYSTEM PLUS

A perfect combination

Increased burglary protection and passive thermal parameters. The best quality of materials, deep six-chamber design of the frame and sash and thoughtful arrangement of seals system guarantee the highest thermal and sound dampening properties.



The heat transfer coefficient
U_f with triple glazing: 0.15 Btu/hft²F



System depth:
3.3 in.



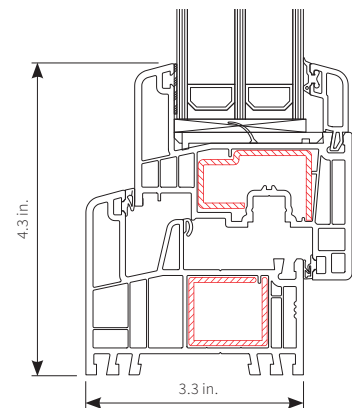
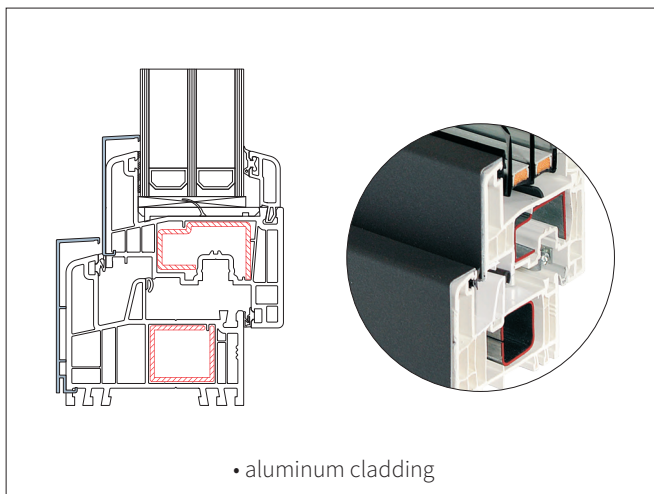
SHGC:
0.14 - 0.37



Vt:
0.28 - 0.57

- outstanding anti-burglary system, possible RC2 class
- 6 chambers system, 3 gaskets (structural middle)
- increased statics, thermal insulation and minimalized adjustment due to static dry glazing technology
- excellent sound insulation and low heat transfer coefficient
- modern design
- hidden or surface hinges
- locking points bolted to steel reinforcement
- the thickest used steel reinforcements in the industry around whole frame and sash
- available nailing fin

Acrycolor® technology color palette – color stays the same whole life circle of the window without fading or blinding – great for warmer and colder climate



Certified for NFR and AAMA



HST KOMBISYSTEM

A modern system dedicated to windows, doors and lift-and-slide doors that offers two or three levels of sealing.

BERTRAND's range includes terrace and balcony systems made of wood, uPVC and aluminum-clad wood.



The heat transfer coefficient
 U_i with triple glazing: 0.17 Btu/hft²F



System depth:
3.3 in.



SHGC:
0.12 - 0.43



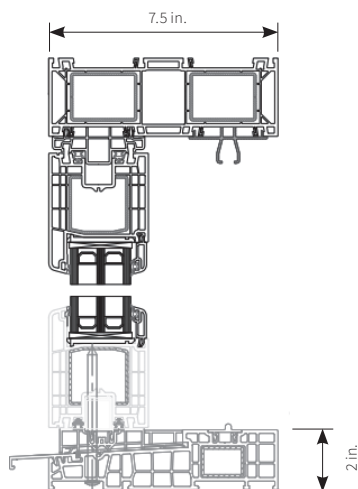
Vt:
0.22 - 0.52

MORE LIGHT THAN EVER

Then BERTRAND® has a very special technical solution for you. Its visible width in the fixed section is significantly smaller than the normal lift-slide sash.

COMFORT AT HOME MADE EASY

Large door elements can be moved with ease with our technology. It does not matter whether the door is open or closed. Either way, the room is flooded with light. And the virtually threshold-free floor junction further offsets the separation between the interior and exterior.



- excellent heat and sound insulation because of the six-chamber design and large installation depth for the frame and sash
- suitable for triple functional glazing (maximum thickness of 52 mm)
- enhanced statics optimized for the use of STV® for dry bonding the pane and sash upstand
- intelligent sealing concept with up to three end-to-end sealing level
- narrow visible width and 15° incline as a design feature

- system maximum size: 8 ft 8 in. (2,6 m)

Certified for NFRC







SMOOVIO

**Create valuable extra space.
Quality of life without compromise.**



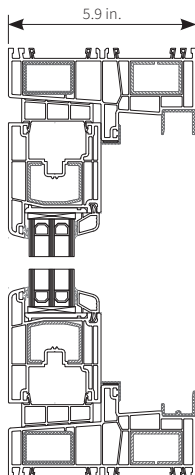
Living space is valuable, so it should be put to best possible use. For the first time, BERTRAND® SMOOVIO combines the space-saving convenience of sliding solutions with extraordinarily compact design. This is made possible through a synergy of newly developed hinge parts, innovative profile geometry and optimised seals.

 <p>The heat transfer coefficient U_f with triple glazing: 0.12 Btu/hft²F</p>	 <p>System depth: 5.9 in.</p>	 <p>SHGC: 0.18 - 0.29</p>	 <p>Vt: 0.22 - 0.58</p>
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GREAT CHOICE

Beautiful, extremely airtight and easy to use. Such is the modern sliding system Smoovio, which you can find in our offer. It is really worth taking a closer look at them. See for yourself why.

- sash profile width is 3.9 in. (100 mm)
- effortless sliding and saves space
- wind-proof and impermeable to driving rain
- excellent tightness and heat insulation
- excellent noise protection
- elegant, unobtrusive design
- system maximum size: 8 ft 8 in. (2,6 m)
- system minimum size:
height: 30.7 in. (780 mm) / width: 62.2 in. (1600 mm)
- scorpion-proof



Certified for NFRC

MB-79N

Window & door system with thermal insulation

The MB-79N it has been designed to outperform typical thermal insulation requirements. The MB-79 N series can be used to fabricate fixed, side-hung, hopper, tilt-and-turn, and hopper-and-slide windows.



The heat transfer coefficient
U_f with triple glazing: 0.17 Btu/hft²F



System depth:
3.3 in.



SHGC:
0.17 - 0.51

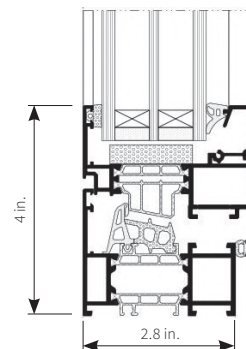
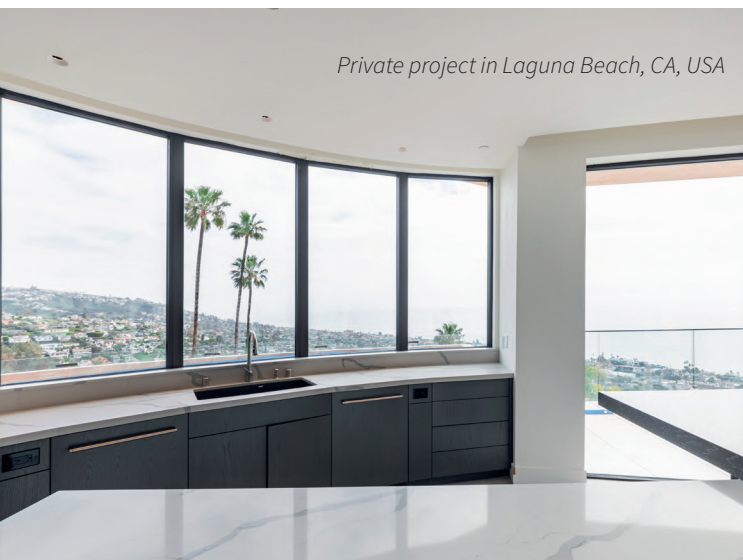


Vt:
0.24 - 0.59

- 3.1 in. (78,7 mm) profile for the window and 2.8 in. (71,1 mm) profile for the window or door jamb
- thermal inserts; produced using state-of-the-art technology; they play an important part in attaining the high heat insulation parameters
- the MB-79N SI; providing the best thermal insulation, the profiles are fitted with insulating inserts produced using expanded polystyrene (EPS) and a two-component, central gasket
- thermal insulation for profiles:
U_f value from 0.146 Btu (IT)/hour/foot²/°F
- compatibility with BERTRAND® MB-86 and MB-104 Passive systems, using the same accessories and gaskets
- excellent kinematics, making it possible to build narrow, opening windows and doors



Private project in Laguna Beach, CA, USA



Certified for NFRC and AAMA



MB-86 CASEMENT WINDOW

Modern aluminum system with narrow profiles

MB-86 is the world's first aluminium windows and doors system which uses airgel – a material with excellent thermal insulation properties.



The heat transfer coefficient
 U_f with triple glazing: 0.25 Btu/hft²F



System depth:
3.3 in.



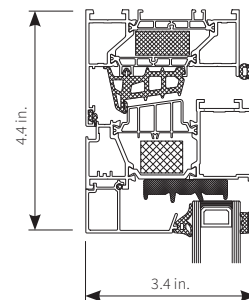
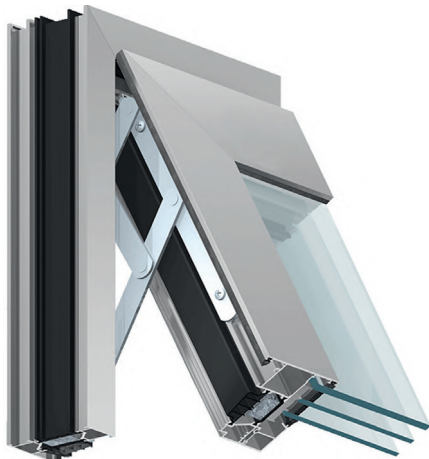
SHGC:
0.09 - 0.31



Vt:
0.16 - 0.39

MB-86 is an **awning window and door system** with very good parameters, providing means to meet various needs of the users. The structure of its sections has 3 variants, depending on the requirements of the thermal energy savings: ST, SI and AERO. The advantages of the MB-86 system also include excellent durability of the profiles, enabling the construction of large size and heavy weight structures. There is also available a version of the window MB-86US with a hidden sash.

- modern design
- wide thermal breaks with a new shape
- two-component central gasket
- increased U_f value and maximum dimensions compared to MB-79
- a wide range of glazing allows the use of all types of the glass panes
- advanced technological solutions



Certified for NFRC



MB-SLIDE

Sliding, aluminum windows and doors

The MB SLIDE have been designed to meet the needs of users with its easy to operate functions and single or double sliding doors and windows that offer flexibility for variety of project applications. They are suitable for installation in masonry wall and aluminum facades. They can also be used as part of winter gardens and commercial windows.



The heat transfer coefficient
U_f with triple glazing: 0.20 Btu/hft²F



System depth:
3.3 in.



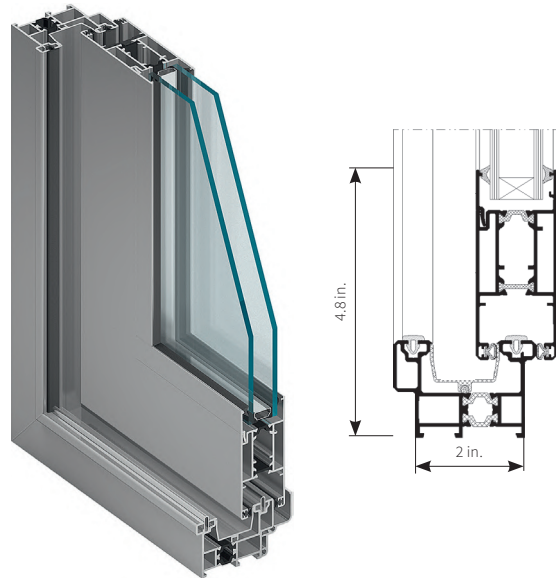
SHGC:
0.13 - 0.45



Vt:
0.24 - 0.59

This sliding door systems offer a wide range of space arrangement possibilities. There are available different constructional variants from 2 to 6 modules. They may be fitted with glazing sets up to 1.02 in. wide. These constructions also ensure very good technical parameters: plastic thermal breaks guarantee suitable thermal insulation of aluminium profiles, while sliding brush gaskets or gaskets made of thermoplastic elastomer TPE, combined with EPDM closing and glazing gaskets, enable obtaining high tightness of the construction.

- excellent sound insulation
- low heat transfer coefficient
- height up to 8 ft 6.36 in. (2,6 m)
- width up to 5 ft 10.87 in. (1,8 m)
- 2- or 3-rail frames
- maximally simplified construction technology



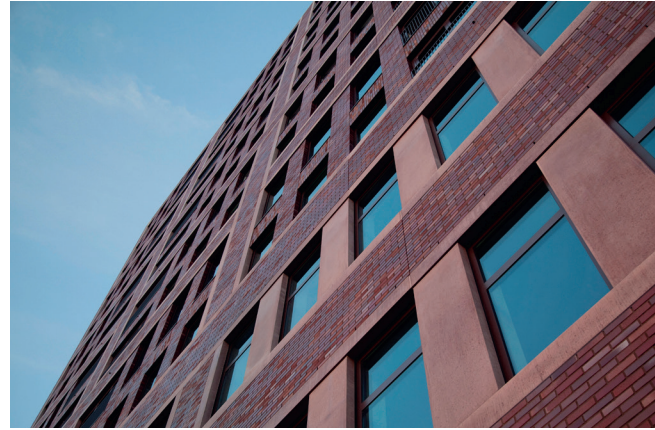
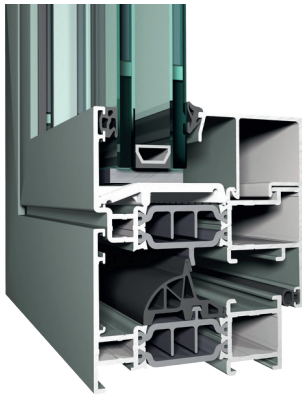


HURRICANE PROOF

CS 77

Comfort and safety

CS 77 is a versatile window system that complements almost any building project thanks to its many design options. Compatible with different burglar resistance levels, the aluminium windows offers both a safe and stylish solution.

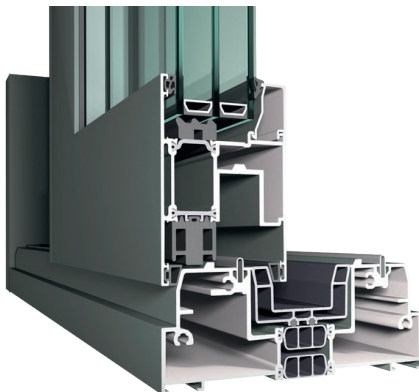


- burglar resistance RC2, RC3, PAS 24
- fire resistance EI₁ 30, EI₂ 30, EI₂ 60, EW 30
- bullet resistance FB4, FSG, Kalashnikov
- thermal insulation - Uf 1.8 W/m²K
- air tightness Class 4
- wind load resistance Class C5

CP 155

Insulation and quality

CP 155 is a high-quality lift & slide system enables large glass areas with excellent insulating properties. Easy to integrate, the all-round aluminium sliding doors neatly combine with the ConceptSystem 77 products.



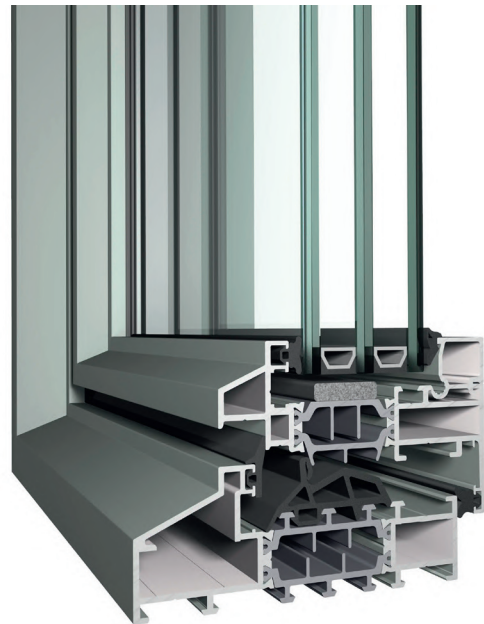
- burglar resistance RC2, PAS 24
- impact resistance I5/E5
- thermal insulation - Uf 0.99 W/m²K
- air tightness Class 4
- water tightness Class E900
- wind load resistance Class C4

SLIMLINE 38

Comfort and Elegance

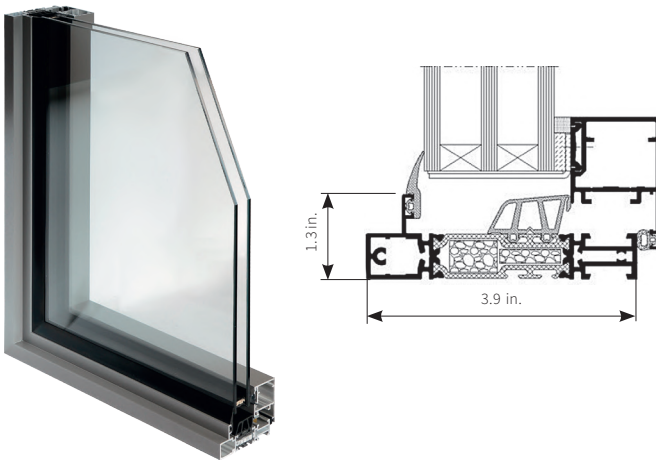
Its slender and user-friendly design makes the SlimLine 38 high-insulation system the perfect fit for any contemporary project. The durable aluminium windows and doors offer unlimited design freedom thanks to their multiple minimalistic variants.

- thermal insulation – Uf: 1.9 W/m²K (0.3346 Btu/hft²F)
- thermal insulation – Uw: 0.96 W/m²K (0.1691 Btu/hft²F)
- air tightness: Class 4 (600Pa)
- water tightness: Class 9A (600Pa)
- wind load resistance: Class C4 (1600Pa)
- acoustics – Rw (C;Ctr) TUTI: 45(-1,-5) dB
- opening & closing resistance: Class 3
- min. height of sash window: 1 ft 11.622 in
- max. height of sash window: 9 ft 2.236 in
- min. width sash window: 1 ft 5.717 in
- max. width sash window: 3 ft 11.244 in
- max. weight of sash window: 170 kg



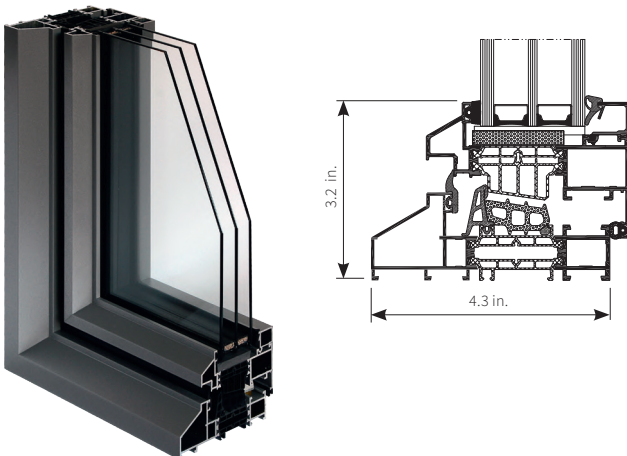
SLIMLINE

- excellent tightness to water penetration and air infiltration
- good thermal insulation U_w from $0.8 \text{ W}/(\text{m}^2\text{K})$
- wide range of glazing of up to - 3.2 in. (81,3 mm)
- structures adjusted to different types of fittings
- narrow profiles
- in two variants – with visible or invisible gasket from outside



FERROLINE

- classic window look
- high degree of thermal protection of the structure resulting from the use of technical solutions of the MB-86 system
- excellent tightness to water penetration and air infiltration
- wide range of glazing of up to 2.4 in. (61 mm)
- possibility to manufacture anti-burglary constructions up to RC2 class



The window system with thermal partition MB-FERROLINE is a solution perfectly suited for renovation of historic buildings, allows to maintain the appropriate appearance of windows, which can imitate a steel metal work and at the same time ensure very good technical parameters of the structure.

Private project in Gdynia, Poland

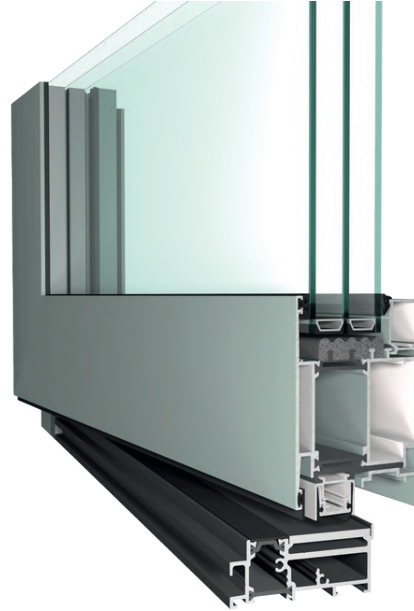


MASTERLINE 8 PIVOT DOOR

Unique entrance door





MasterLine 8 aluminium doors offer excellent levels of safety, thermal insulation, and stability. Pivot doors make excellent entrance doors, and are available in a standard size, an impressive XL and a multiple linked vents Landscape variant.

- air tightness: Class 4 (600Pa)
- water tightness: Class 4A (150Pa)
- wind load resistance: Class C3 (1200Pa)
- min. height of element: 6 ft 11.504 in
- min. width of element: 4 ft 3.142 in
- min. height of sash : 6 ft 6.74 in
- max. height of sash: 13 ft 1.48 in
- min. width of sash: 3 ft 9.276 in
- max. width of sash: 8 ft 2.425 in
- max. weight of sash: 500 kg



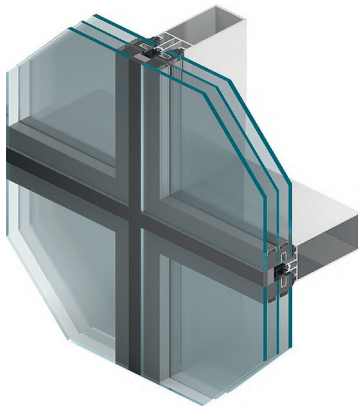
CURTAIN WALL SR-50N

The MB-SR50N EFEKT system is used for the construction of lightweight curtain walls of a hanging and filling type as well as roofs, skylights and other spatial constructions.

			
Heat transfer coefficient U _f from: 0.16 Btu/hft²F	System depth: 3.6 in.	SHGC: 0.15 - 0.25	Vt: 0.29 - 0.43

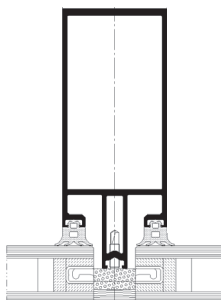
Its supporting structure is based on a modern and tried-and-tested mullion and transom aluminum system MB-SR50N, which provides a wide range of profiles to choose from and the possibility of selecting sections so that the surface of mullions and

transoms is flush with the internal side of façade, and thus its aesthetic joint with development elements inside the building is ensured. It also ensures compatibility with other constructions based on the wide range of products offered by BERTRAND®.



one of many curtain walls options available from BERTRAND®

MB-SR50N EFEKT
Semi-structural mullion/transom curtain wall



Investment in Gdynia, Poland

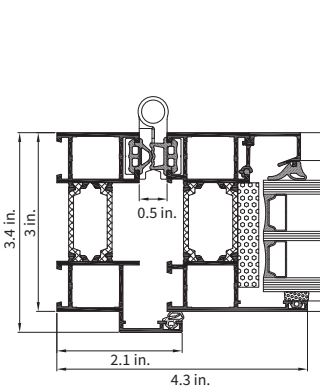
FOLD LINE

Aluminum folding doors

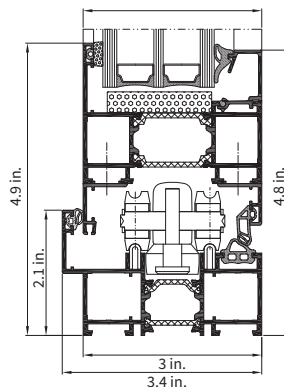


FEATURES AND BENEFITS

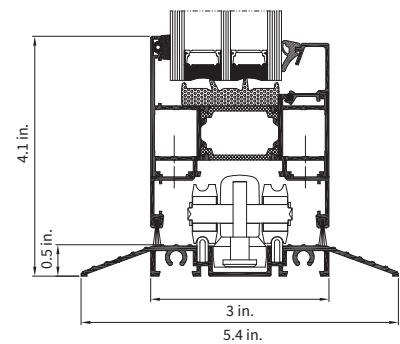
- structural depth of 3.4 in. (86,4 mm) for the frame and 3 in. (76,2 mm) for the panels
- it is available as a corner or panoramic structure and can be assembled with up to eight panels
- the profiles for the central section are fitted with thermal breaks with a width of 0.9 in. (22,9 mm) for the frames and 1.3 in. (33 mm) for the panels, contributing to the structure's high thermal performance
- the custom-designed hardware guarantees that door panels weighing up to 264 lb (120 kg) can be operated with ease
- the extensive permissible dimensions make it possible to build doors with a maximum panel height of 98.4 ft (30 m) and a width ranging from 27.6 in. (701 mm) to 47.3 in. (1201 mm)
- it features the widest range of threshold solutions, including one which provides a weatherstrip and another which offers a low threshold for even more user comfort
- the glazing ranges from 0.5 in. (12,7 mm) to 2.4 in. (61 mm), meaning that both double- and triple-glazing units can be used, as can units with increased acoustic insulation and units with a burglary-resistance rating
- it is designed to be compatible with our renowned and highly esteemed MB-79N and MB-86N window and door system; the profile joints are analogous to those for the MB-86N and the two systems share some profiles, gaskets and accessories



door, side view



door with edge sealing, bottom view







door with low-level threshold, bottom view

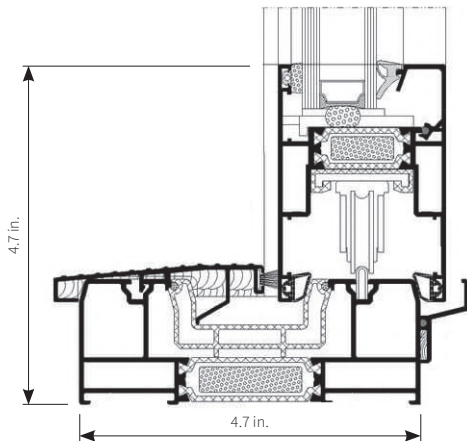
MB-59HS

For lift & slide doors

Lift & slide door is the perfect integrating element that connects rooms or winter gardens with external spaces. It provides a convenient exit to the balcony, terrace or garden.

			
<p>Heat transfer coefficient U_f from: 0.22 Btu/hft²F</p>	<p>System type: Lift and slide</p>	<p>SHGC: 0,13 – 0,48</p>	<p>Vt: 0,25 – 0,64</p>

When in the open position, the door does not take up space inside the room, whilst enabling a very good contact with the environment which further increases the comfort of use. MB-59HS gives you great possibilities in applications of lift & slide doors, and is the optimized solutions in terms of construction and dimensions of its profiles and frames. With its high thermal and sound insulation, combined with excellent water and air tightness, MB-59HS meets all the requirements for energy conservation and environmental protection. In terms of thermal insulation, MB-59HS profiles have two different variants: ST and HI. The range of available profiles include 2- and 3-rail frames, and leaves that are adapted to two heights of rolling devices. A wide range of glazing enables the use of double and triple glazing units, including safety and sound insulation units. Due to its characteristics, the MB-59HS can be used in various types of buildings: individual buildings, hotels or apartments.



- system maximum size: 9 ft 2.2 in. (2,8 m)




Certified for NFRC



MB-77HS

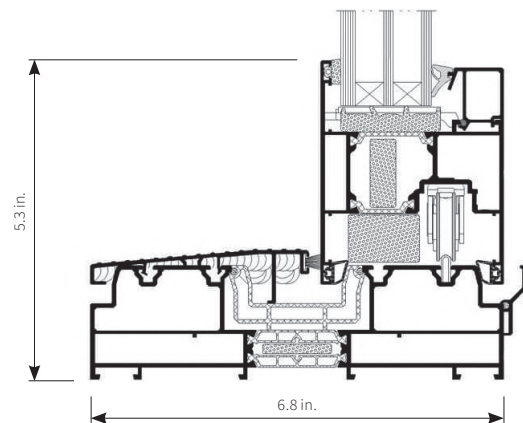
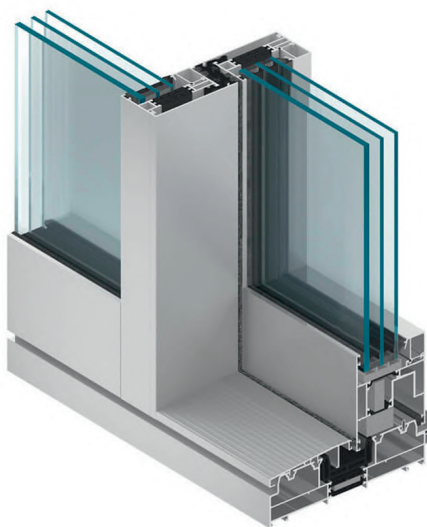
Lift and slide balcony door

The MB-77HS “Lift & Slide” door product is an ideal solution for connecting interior space rooms or conservatories with the outside balcony, terrace or garden area.

			
<p>Heat transfer coefficient U_f from: 0,24 Btu/hft²F</p>	<p>System type: Lift and slide</p>	<p>SHGC: 0,13 – 0,47</p>	<p>Vt: 0,24 – 0,61</p>

Available in two different options, with regard to the level of thermal performance, the MB-77HS is further categorised as “ST” and “HI”, standard or highly insulated. The design & arrangement of the system profiles enable luxurious openings of large dimensions, accommodating double & even triple glass unit compositions, which in conjunction with the constituent parts & innovative technical solutions, help achieve a high level of thermal & acoustic performance.

Due to the system properties & rigorous performance proven through a stringent testing regime, the MB-77HS is ideally suited to many domestic & retail applications, providing a comfortable, safe working, cost effective & low maintenance solution for the end user.

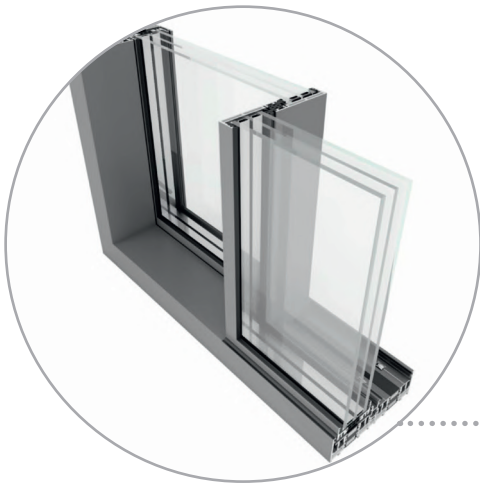


- system maximum size: 10 ft 7.6 in. (3,24 m)

PANORAMASKY

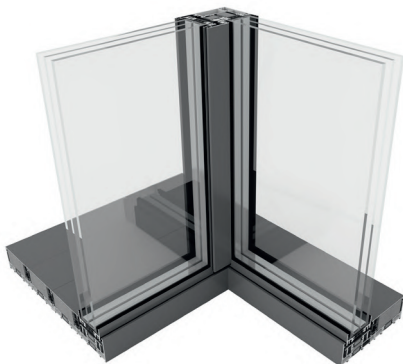
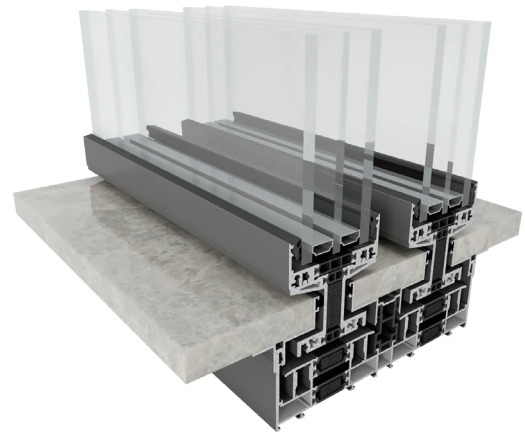
Thermally insulated sliding door system with a slim sightline near the meeting stile

Slim sightline



ADVANTAGES OF THE SYSTEM

- unlimited access to sunlight – transparency up to 98%
- the width of the mullion where the sash meet is from 1 in.
- independent structures of the systems can be connected at 90° angle
- a static mullion allows for designing a row of fixed glazings which can be additionally connected at any angle thanks to using an all-glass corner
- manual or automatic control; the control mechanism is hidden or assembled at the outside of the construction
- the possibility of glazing from the outside
- linear drainage integrated with the frame
- the systems allow for the replacement of worn guide rolls without the necessity to disassemble heavy door sashes
- maximum height 13 ft 1.5 in. (4 m)
- slim mullion 0.99 in. (25 mm)
- 881 lb (400 kg) manual opened sush, 2645 lb (1200 kg) automatic



PanoramaSky

less frame more view

**Expanding your view!
Thanks to thermally insulated
sliding door system.**

UNLIMITED POSSIBILITIES TO DESIGN THE SPACE

Panoramic view of the surrounding, optically enlarged living space and the feeling of connection with nature are just few of many advantages of sliding doors.

The state-of-the-art, minimalist design of this solution allows for hiding the aluminium frame of the structure in the floor, walls and the ceiling, thus the boundary between the house interior and the outside surrounding is blurred. This effect is enhanced by the threshold-free construction which facilitates moving. What is more, the glass corner allows for connecting glass sheets at any angle.

The feeling of unlimited space is ensured by slightly visible width of the door leaf connection, the smallest size of visible aluminium available at the market as far as movable mullion is concerned, as well as permitted height of the structure up to 13 ft.



[read more](#)

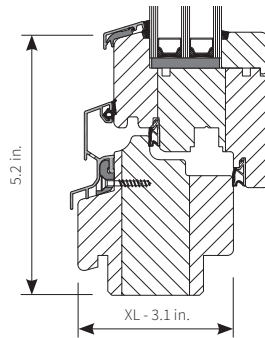
Windows & Doors™
Bertrand

The unique you choose

WOODEN WINDOWS

Wood is a proven, elegant and natural material, which for many years has successfully been used in the window joinery. Our offer includes windows made of various species of wood, such as pine, oak, sapeli, meranti, and others, depending on the Clients' requirements.

Softline

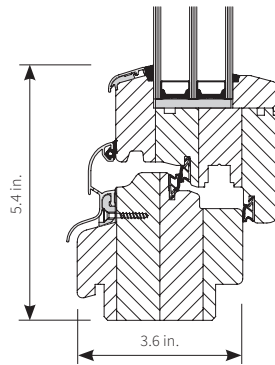


Softline EDGE
(example variant from the wooden windows range)

Main features:

- system depth:
2.7 in. (Softline)
3.1 in. (Softline XL)
3.6 in. (Strongline)
- 2 (Softline), 2-3 (Softline XL),
3 (Strongline) sealing lines
- decorative milling cutter
- double or triple glazing
- includes simulated double hang window variant
- wide range of wood species and colors

Strongline



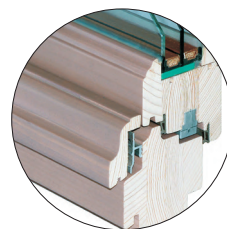
Strongline MASTER
(example variant from the wooden windows range)



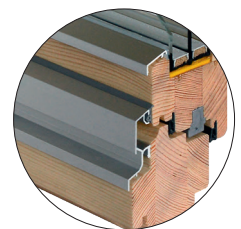
Available drip options:



aluminum in the Softline Perfect system



wooden in the Retro system



aluminum in the Edge system

LOFT DOORS

Interior steel framed glass doors

Get to know our offer of steel and glass loft doors, which are distinguished by beautiful design and precision of workmanship. Hundreds of available colors provides our clients with many options for arranging space. The doors can be all-glass, with muntins, arches, closed with a handrail or a handle. Glass can be transparent, milky or decorative - ornamental. We present selected models below.

The full offer is available on the BERTRAND® website.

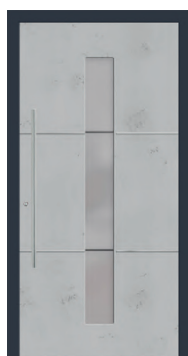


EXTERNAL DOORS

Doors are an inseparable element of every house and apartment. We present the offer of external and internal doors made of wood, uPVC, aluminum and steel. The highest quality of the materials used ensures durability and comfort of use for many years, all combined with a designer look. In addition, modern BERTRAND® doors can be enriched with elements of monitoring and identification of people – smart home – which will provide additional security for the household members.



ART-CORTEN



ART-CONCRETE



integrated digital visor



integrated led light



integrated finger scanner



LIGNUM (oiled oak)

VENETIAN BLINDS



Facade blinds, internal view



Facade blinds, view from the outside



INSECT SCREENS

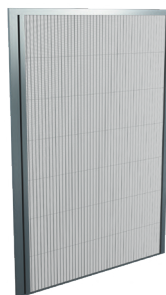
Mosquito nets integrated with the roller shutter system (or installed later) provide excellent protection against insects. While on windy days the shutters offer very effective protection against wind.



Clamping frame insect screen



Sliding insect screen



Pleated insect screen



Insect roller screen

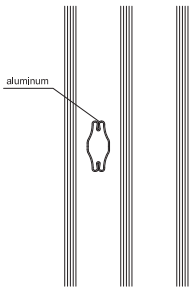


Swing frame insect screen

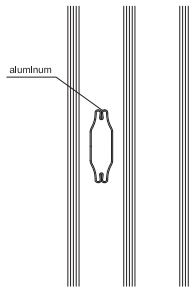
GRILLES

Grilles for wood windows

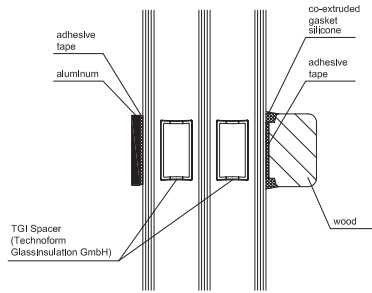
Grilles Between Glass (GBG) 0.7in



Grilles Between Glass (GBG) 1in

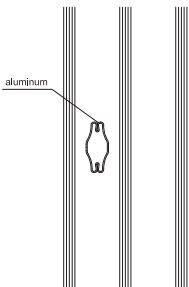


Simulated Divided Lite with Spacer Bar (SDLS) 1in

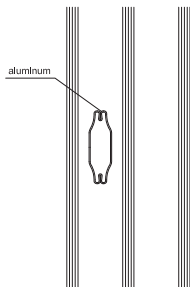


Grilles for uPVC windows

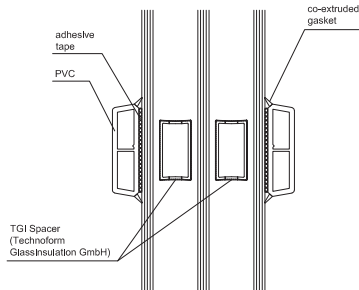
Grilles Between Glass (GBG) 0.7in



Grilles Between Glass (GBG) 1in



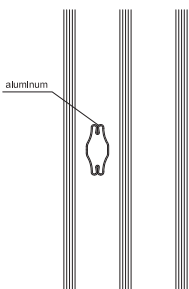
Simulated Divided Lite with Spacer Bar (SDLS) 1.3in



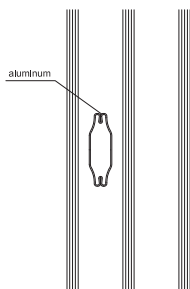
Softline Perfect

Grilles for aluminum windows

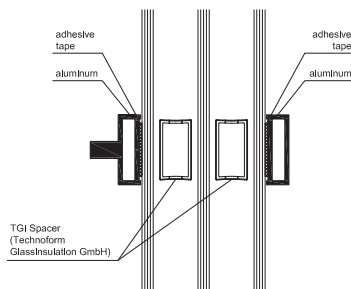
Grilles Between Glass (GBG) 0.7in



Grilles Between Glass (GBG) 1in



Simulated Divided Lite with Spacer Bar (SDLS) 1in

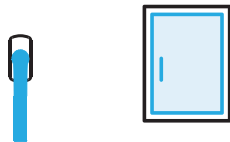


MB 70 hidden sash

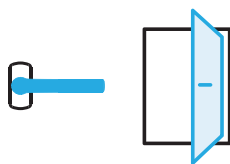
TILT AND TURN

Lever / sash position

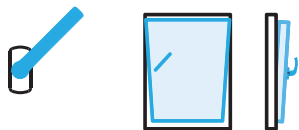
Meaning



Closed position of the sash
(if the room is unattended or no ventilation is desired)



Rotational position of the sash
(for short-term swift ventilation of the room or cleaning the outside windows)



Opening to a gap or night-vent position of the sash
(for continuous ventilation at low outdoor temperatures)



Tilted position of the sash
(for continuous ventilation of the room)





Investment in Jastrzebia Gora, Poland



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