

VITRUM®

SLIMLINE® VIT 14

01 | Glass

The system accommodates 12mm thick single glazed glass.

02 | Roller Bearings

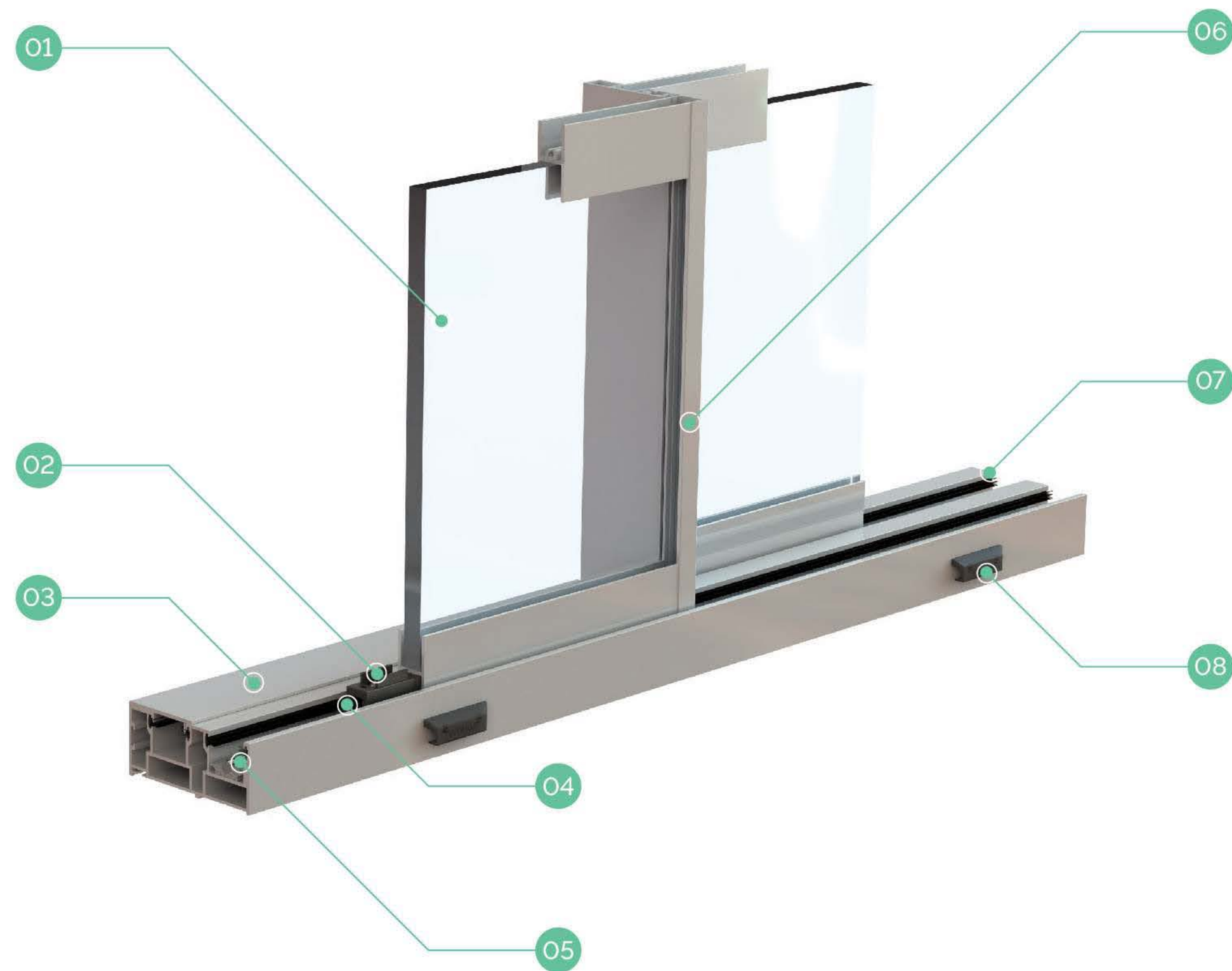
Roller bearings are of 316 grade stainless steel having a load capacity of 150 kg each. This ensures the weight of the shutter is balanced between the bearings and leads to highly smooth operation. The bearing's cage is made of heavy nylon to provide sustained support in the long run.

03 | Cover Profile

Adhering to our commitment to an aesthetically appealing and maintenance free window, we have designed a metal covering to encase the fixed shutter track. The cover profile acts as a protective shield, providing resistance against air, dust and water seepage. Furthermore, it seamlessly merges with the entire window unit to elevate its aesthetic value.

04 | Auto Clean Brush

The bottom of the shutter is provided with brushes between the bearing cages to auto clean the track for the dust to be accumulated at the corners of the track which can easily be removed.



05 | Rail

The rail is made of 316 grade stainless steel. This facilitates easy sliding operation with least resistance for the heaviest windows.

06 | Sight Line

The interlock / mullion between any 2 shutters is only 14mm thick.

07 | Three Fin Wool Pile

This is a high quality brush used to prevent air, water and dust penetration into the track.

08 | Drainage Slots

We have an integrated water management system, conducive even for torrential rain regions. The drainage slots are provided in each track of the profile to drain out water.

SLIMLINE® VIT 14

SLIMLINE® VIT 14

Vitrum's latest offering is the Slimline® Series of windows, which are one of the slimmest in the world. The design prioritizes minimization of obstructions and maximization of outdoor views and the inflow of natural light. The system adds to the arsenal of architects, designers and clients with a plethora of design solutions.

An authentic merger of an indigenous design and high-grade international materials, the result amplifies performance, feel and appearance. It is the perfect blend of aesthetics and functionality. The entire product line offers high sound insulation, wind and water pressure resistance, slimline maintenance and peace of mind through years of prolific usage.

Sight Line

It is an absolute delight to designers, architects and clients alike, as it's the ultimate selection for indoor / outdoor assimilation. These aluminium windows sit harmoniously side by side with an extremely slender vertical frame of only 14mm between the glass panels. All the surrounding frameworks of the slimline windows can be hidden in the building surround with the floor track flushed with the internal floor.

Attributes

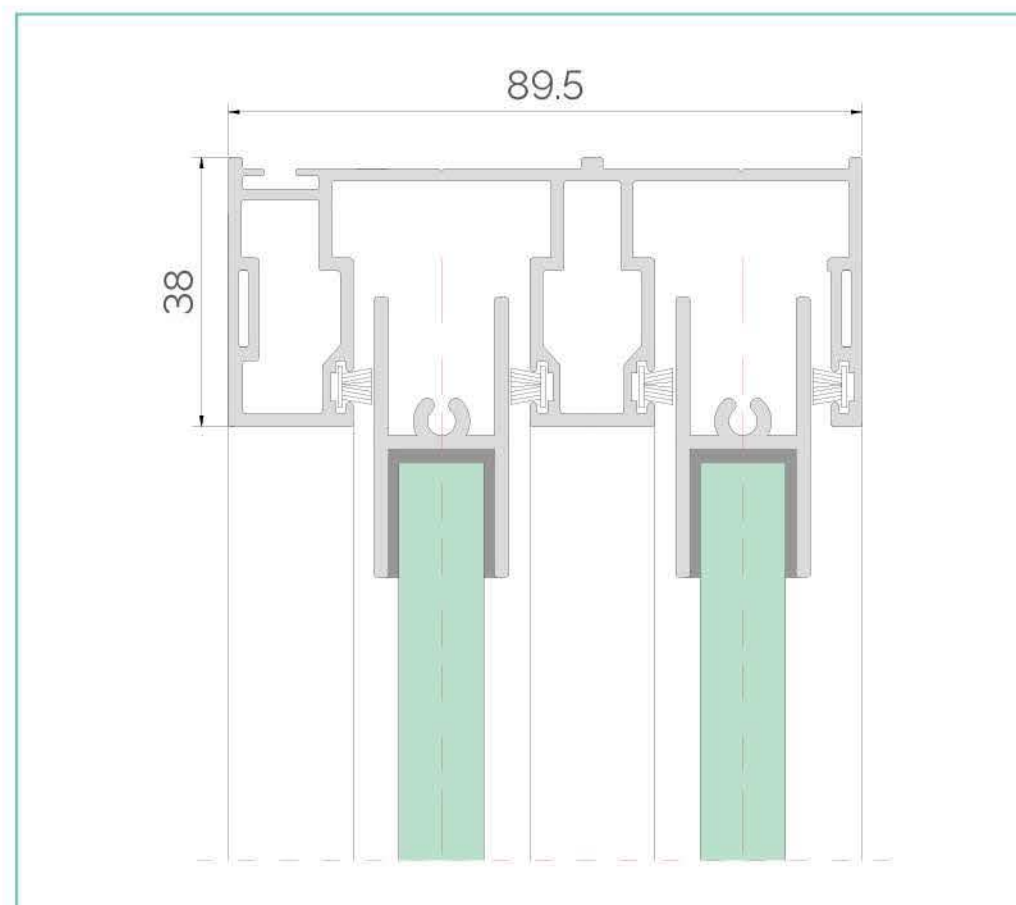
Details

| | |
|--------------------------|------------------------------------|
| Sight Line or Face Width | 14mm |
| Section Joint | 'L' clamp fitting with grub screws |
| Sash Degree | 90 degrees machine precision |
| Glass Thickness | 12mm |
| Sliding Rail | Stainless Steel - 316 |
| Roller Bearings | Stainless Steel - 316 |
| Surface Finish | Powder Coating / PVDF / Anodized |
| Handle | 180 degrees |
| Maximum Shutter Size | 4.3 sq m |
| Maximum Shutter Height | 2.4m |

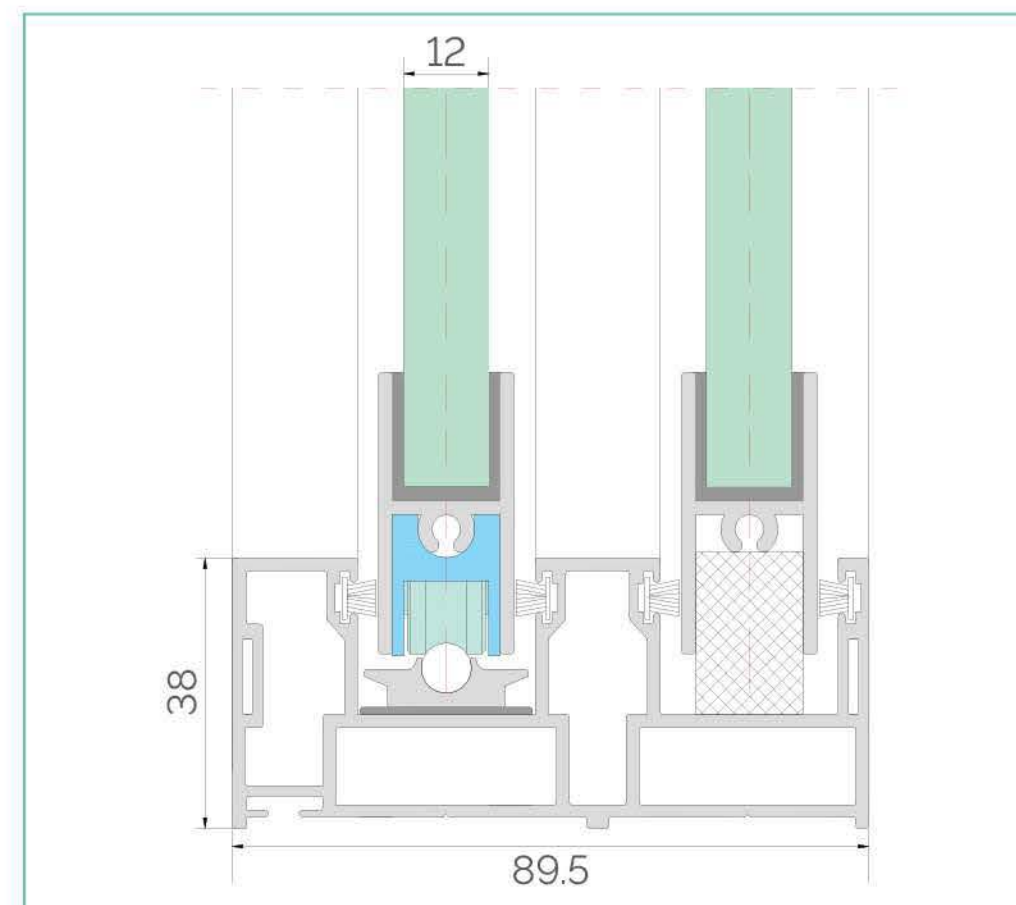
SLIMLINE® VIT 14

Performance Data

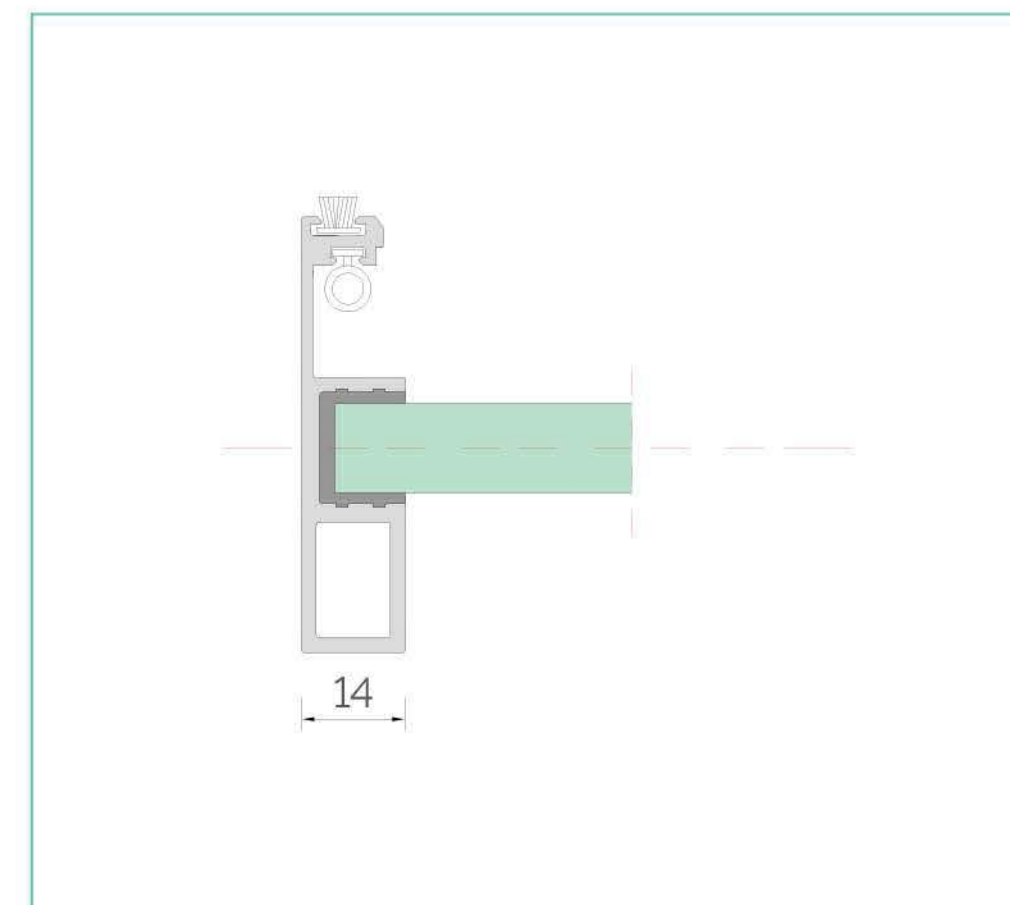
| | | |
|-------------------|---|-------------|
| Wind Resistance | - | up to 2 KPa |
| Air Penetration | - | 300 Pa |
| Water Penetration | - | 390 Pa |
| Sound Reduction | - | up to 34 dB |



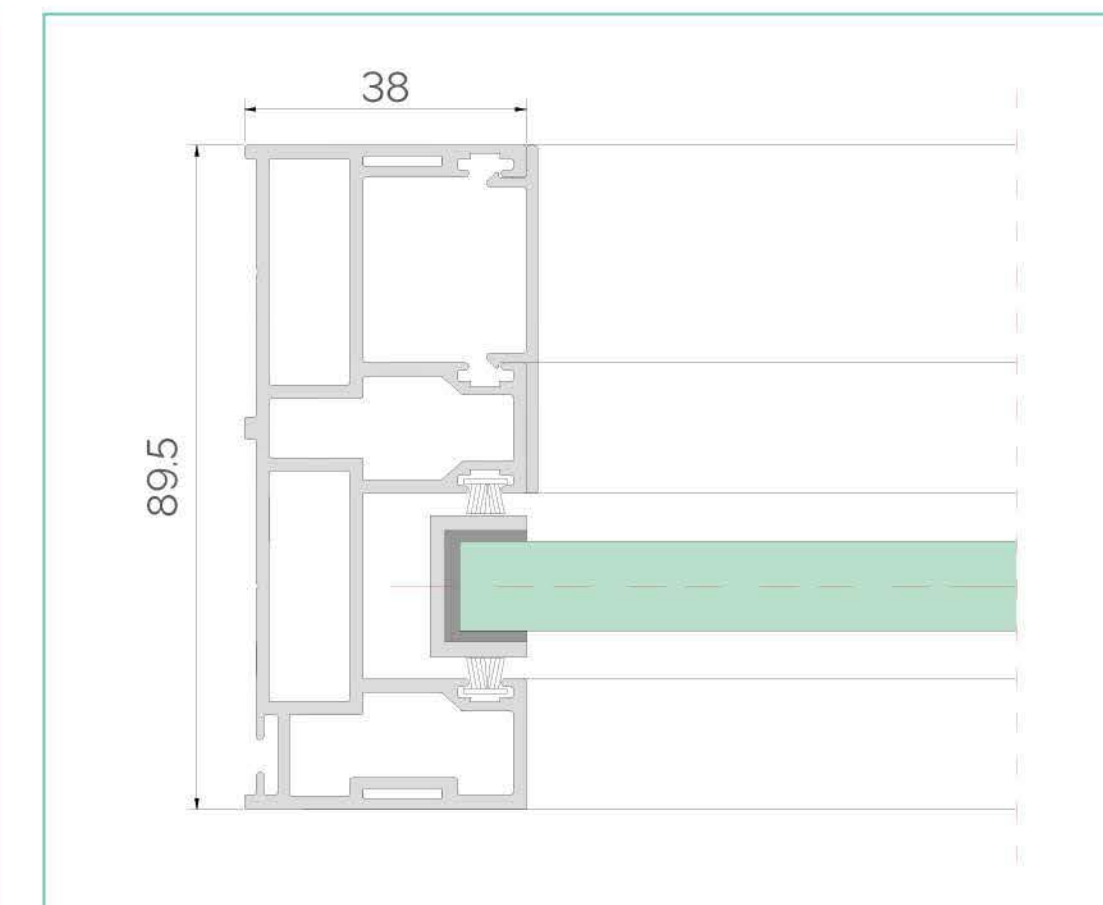
Top Section



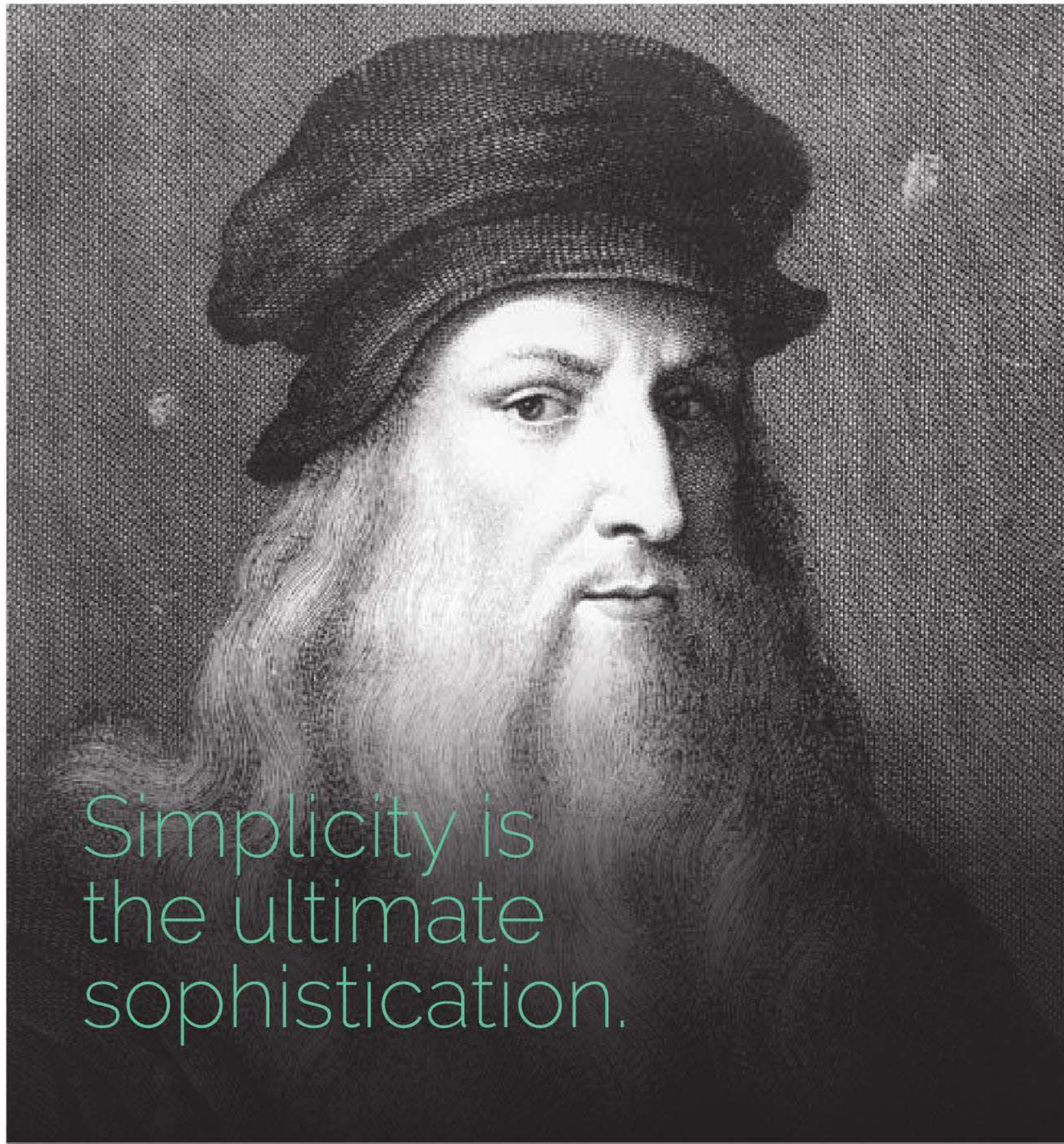
Bottom Section



Interlock With handle



L & R Section



Leonardo da Vinci 1452 - 1519

was an Italian Renaissance polymath whose areas of interest included invention, painting, sculpting, architecture, science, music, mathematics, engineering, literature, anatomy, geology, astronomy, botany, writing, history and cartography.



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VITRUM®

SLIMLINE® VIT 21

01 | Argon Gas

The gap in the DGU is filled with argon gas to reduce thermal conductance.

02 | Roller Bearings

Roller bearings are of 316 grade stainless steel having a load capacity of 200 kg each. This ensures the weight of the shutter is balanced between the bearings and leads to highly smooth operation. The bearing's cage is made of heavy nylon to provide sustained support in the long run.

03 | Cover Profile

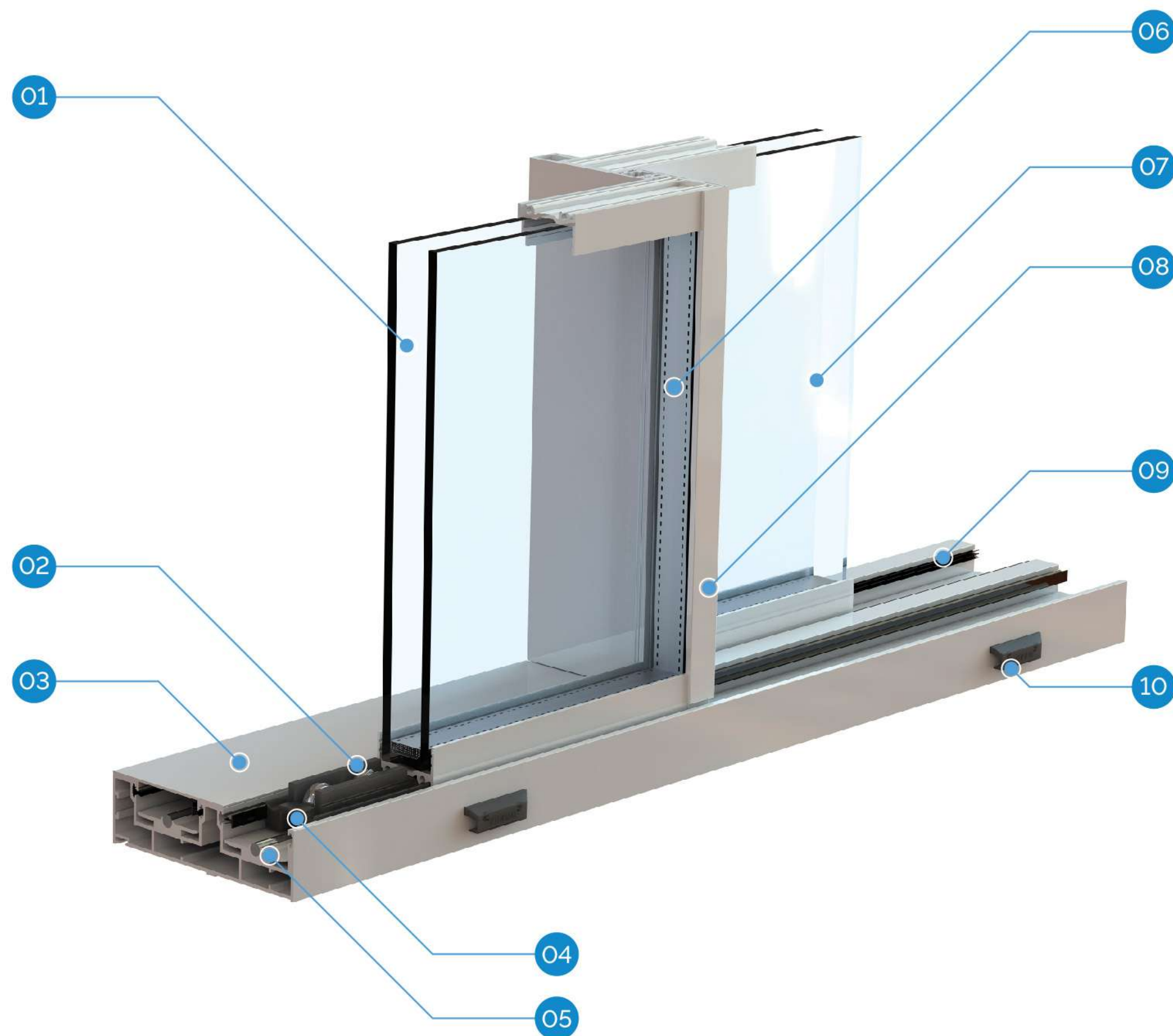
Adhering to our commitment to an aesthetically appealing and maintenance free window, we have designed a metal covering to encase the fixed shutter track. The cover profile acts as a protective shield, providing resistance against air, dust and water seepage. Furthermore, it seamlessly merges with the entire window unit to elevate its aesthetic value.

04 | Auto Clean Brush

The bottom of the shutter is provided with brushes between the bearing cages to auto clean the track for the dust to be accumulated at the corners of the track which can easily be removed.

05 | Rail

The rail is made of 316 grade stainless steel. This facilitates easy sliding operation with least resistance for the heaviest windows.



06 | Perforations

They ensure moisture is not accumulated in the glass unit due to its anti-fog function.

07 | Glass

The system provides flexibility in the type of glass that can be used. Some of the commonly used types of glass are DGU, DGU laminated, Sentry laminated, Reflective, Low-E & Burglar resistant options. These provide up to 38 dB sound reduction. The standard Slimline system has an 8mm outer glass, an 18mm spacer and an 8mm inner glass, which results in a 34mm double glazed unit.

08 | Sight Line

The interlock / mullion between any 2 shutters is only 21mm thick.

09 | Three Fin Wool Pile

This is a high quality brush used to prevent air, water and dust penetration into the track.

10 | Drainage Slots

We have an integrated water management system, conducive even for torrential rain regions. The drainage slots are provided in each track of the profile to drain out water.

SLIMLINE® VIT 21

SLIMLINE® VIT 21

Vitrum minimizes interference, maximizes views and natural light with a minimalistic sliding window system, the Slimline® Series. The system adds to the arsenal of architects, designers and clients with a plethora of design solutions.

The indigenous design with imported materials results in a high level of performance, look and feel. It is the perfect blend of aesthetics and functionality. The line of products are fully tested in adherence with international standards, offering high sound insulation, wind and water pressure resistance, minimal maintenance and peace of mind through years of prolific usage.

Sight Line

It is an absolute delight to designers, architects and clients alike, as it's the ultimate selection for indoor / outdoor assimilation. These aluminium windows sit harmoniously side by side with an extremely slender vertical frame of only 21mm between the glass panels. All the surrounding frameworks of the slimline windows can be hidden in the building surround with the floor track flushed with the internal floor.

Attributes

Details

| | |
|--------------------------|------------------------------------|
| Sight Line or Face Width | 21mm onwards |
| Section Joint | 'L' clamp fitting with grub screws |
| Sash Degree | 90 degrees machine precision |
| Glass Thickness | 34mm double glazed unit |
| Sliding Rail | Stainless Steel - 316 |
| Roller Bearings | Stainless Steel - 316 |
| Surface Finish | Powder Coating / PVDF / Anodized |
| Handle | 180 degrees |
| Maximum Shutter Size | up to 8 sq m |
| Maximum Shutter Height | 4.5m |

SLIMLINE® VIT 21

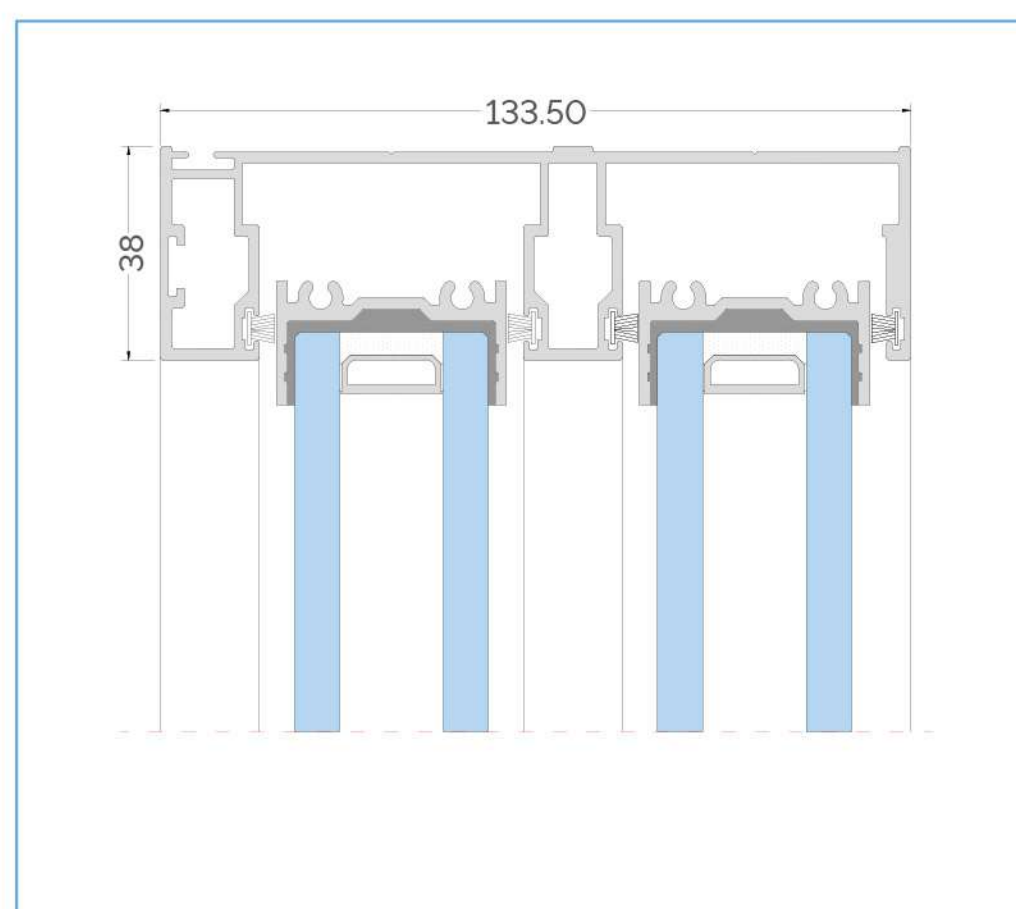


This system has been internationally tested with the following result.

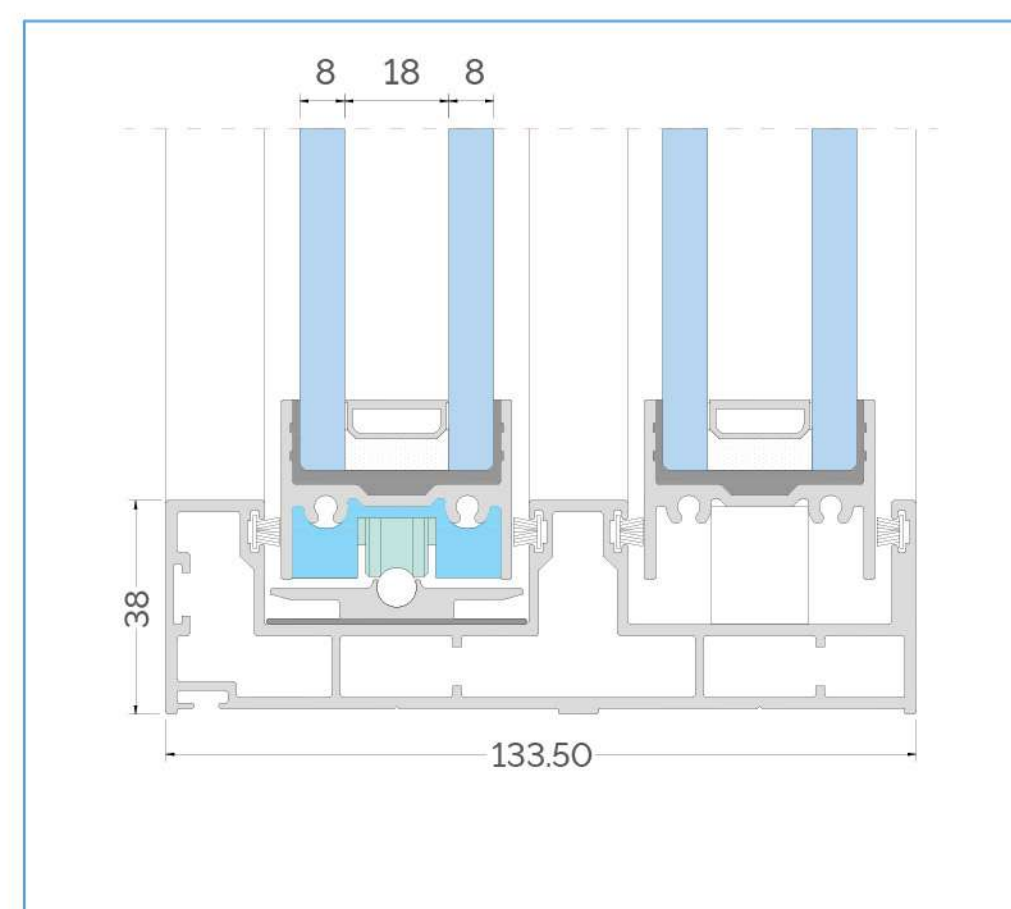
- Wind Resistance - up to 2.8 KPa (ASTM E330-02, AAMA / WDMA / CSA 101 / I.S.2 / NAFS)
- Air Infiltration - 300 Pa (ASTM E283-04)
- Water Penetration - 390 Pa (ASTM E331-00, ASTM E547-00)

Testing Data (Certificate)

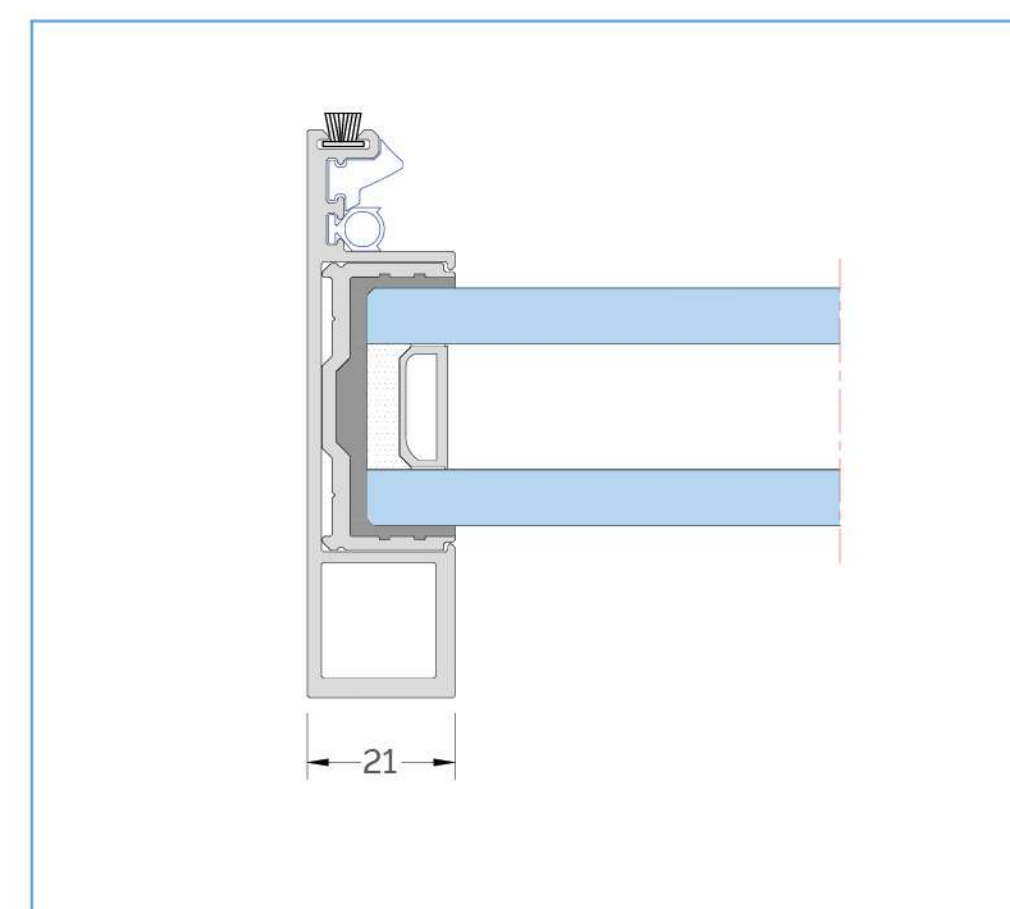
This system is internationally tested with the following result.



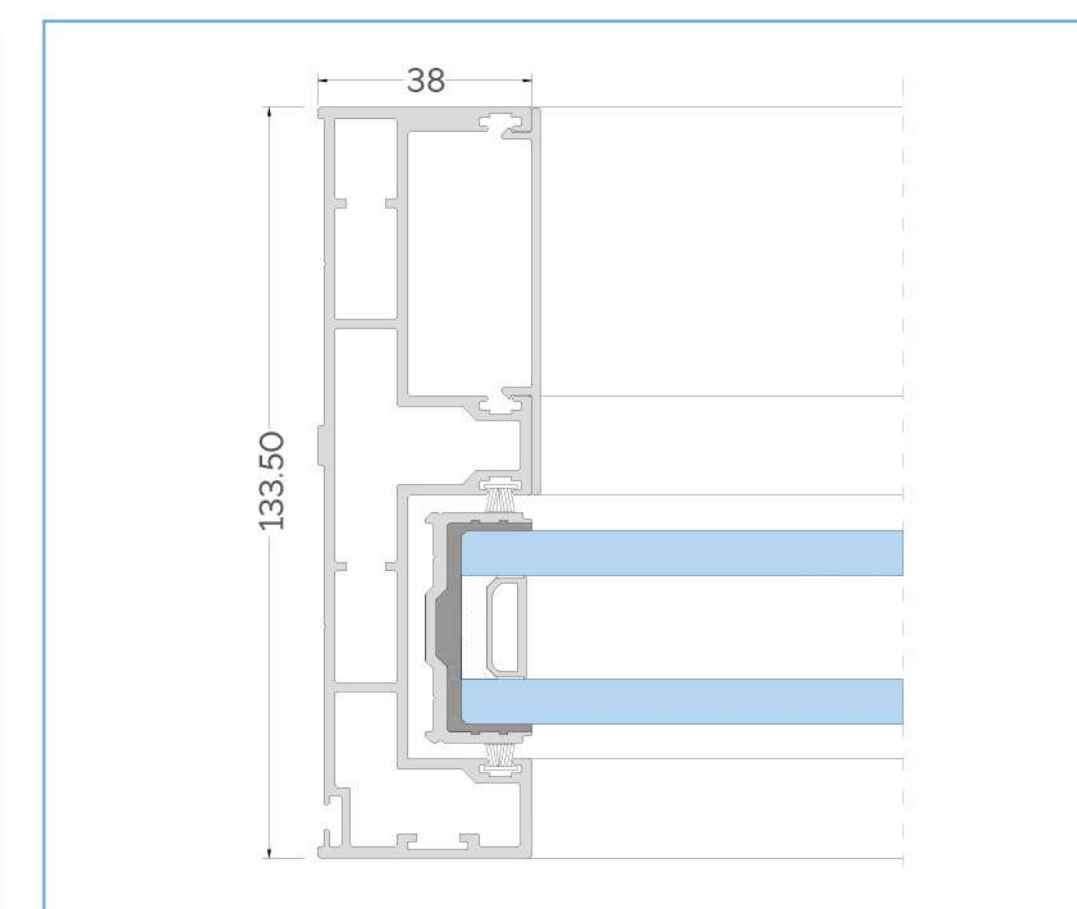
Top Section



Bottom Section



Interlock With handle



L & R Section



Ludwig Mies van der Rohe 1886 - 1969

Ludwig Mies van der Rohe was a German-American architect. He was one of the pioneers of modernist architecture.



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VITRUM®

SLIMLINE® VIT 25

01 | Gaskets

Uniquely designed gaskets form a sound barrier and provide resistance against air, dust & water seepage.

02 | Roller Bearings

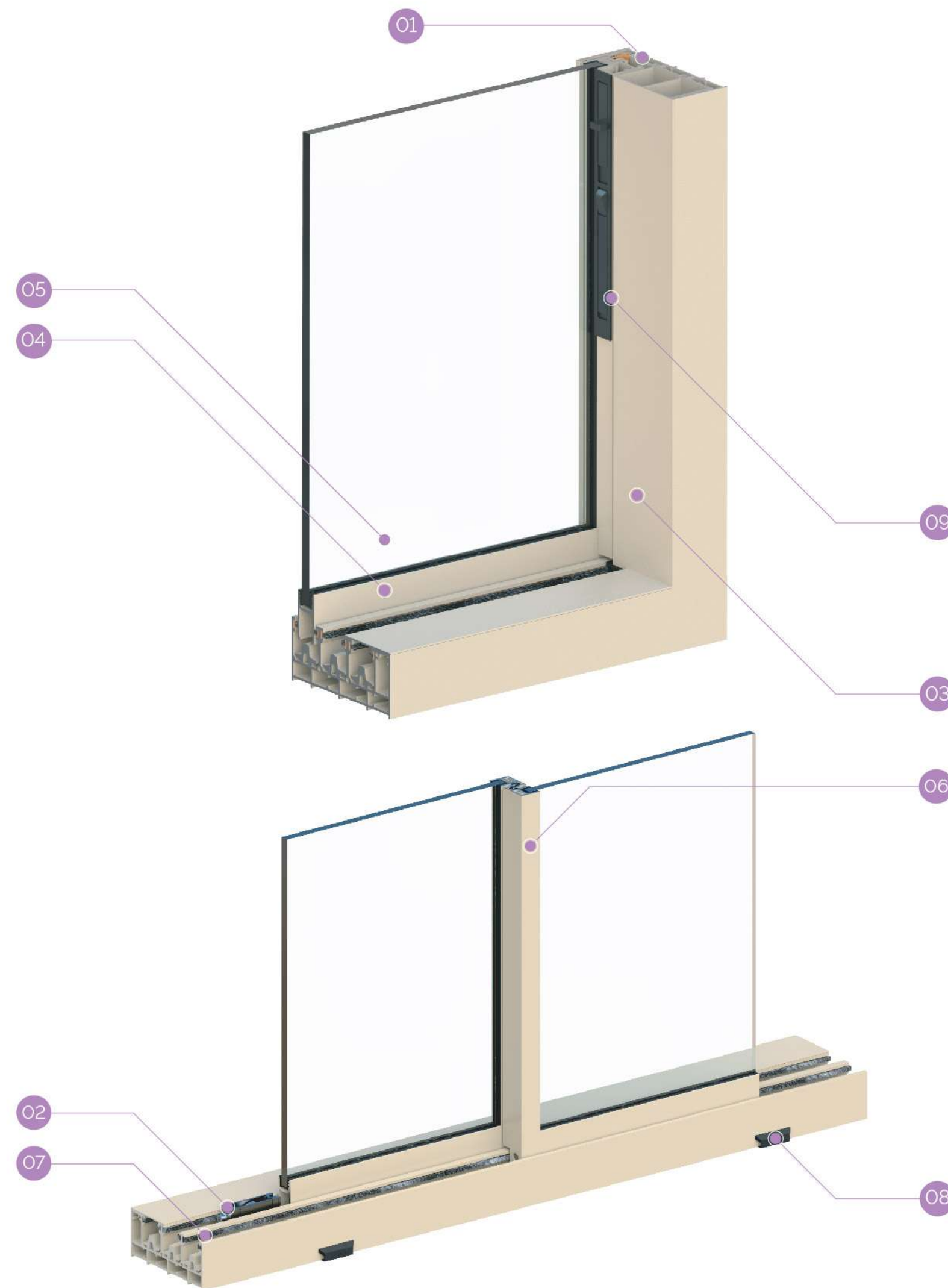
The system uses high quality, height adjustable bearings that ensure excellent shutter alignment and balanced weight distribution between them for remarkably smooth operation. These bearings can handle load capacity of up to 200 kg per shutter.

03 | Cover Profile

The metal covering for encasing the fixed shutter track merges with the window unit to elevate the aesthetic value of the whole unit. The cover profile acts as a protective shield, providing resistance against air, dust and water seepage.

04 | Top / Bottom Sight Line

The top & bottom sight line has been maintained at 25mm which is same as the vertical sight line of the shutters. This gives the system a uniform sight line all around making it aesthetically appealing.



05 | Glass

SGU, DGU, Laminated, Sentry lamination - clear, tinted & reflective are the glass types commonly used in the system and that provide flexibility. The system has options of 6mm, 8mm & 10mm single glazed and 24mm, 26mm & 28mm double glazed.

06 | Sight Line

The interlock / mullion between any two shutters is only 25mm thick.

07 | Single Fin Wool Pile

This is a high quality brush used to prevent air, water and dust penetration.

08 | Drainage Slots

We have an integrated water management system, conducive even for torrential rain regions with drainage slots provided in each track of the profile to drain out water.

09 | Lock

The system uses a multi-point face locking unit. The lock stays flushed with the walls and comes with an integrated handle that can be popped out when required.

SLIMLINE[®] VIT 25

SLIMLINE® VIT 25

Vitrum's latest offering is expertly designed for elegant profiles and slender sashes that enhance the aesthetic appeal of the interior and the exterior of a building. Specifically designed for easy fabrication and installation, this system provides one of the lowest cost-benefit ratio in the industry.

A slimmer frame also means a larger glass area. This allows more light inside and offers a better view. The windows have a beautifully minimalistic frame which is enhanced by the locking handle being integrated with the minimal vertical side profiles, meaning there is no increase in panel size for locking. The frames which surround the outer edges of the windows can be hidden within the wall and floor finishes to accentuate the frameless aesthetic.

Sight Line

It is an absolute delight to designers, architects and clients alike, as it's the ultimate selection for indoor / outdoor assimilation. These aluminium windows sit harmoniously side by side with an extremely slender vertical frame of only 25mm between the glass panels. All the surrounding frameworks of the slimline windows can be hidden in the building surround with the floor track flushed with the internal floor.

Attributes

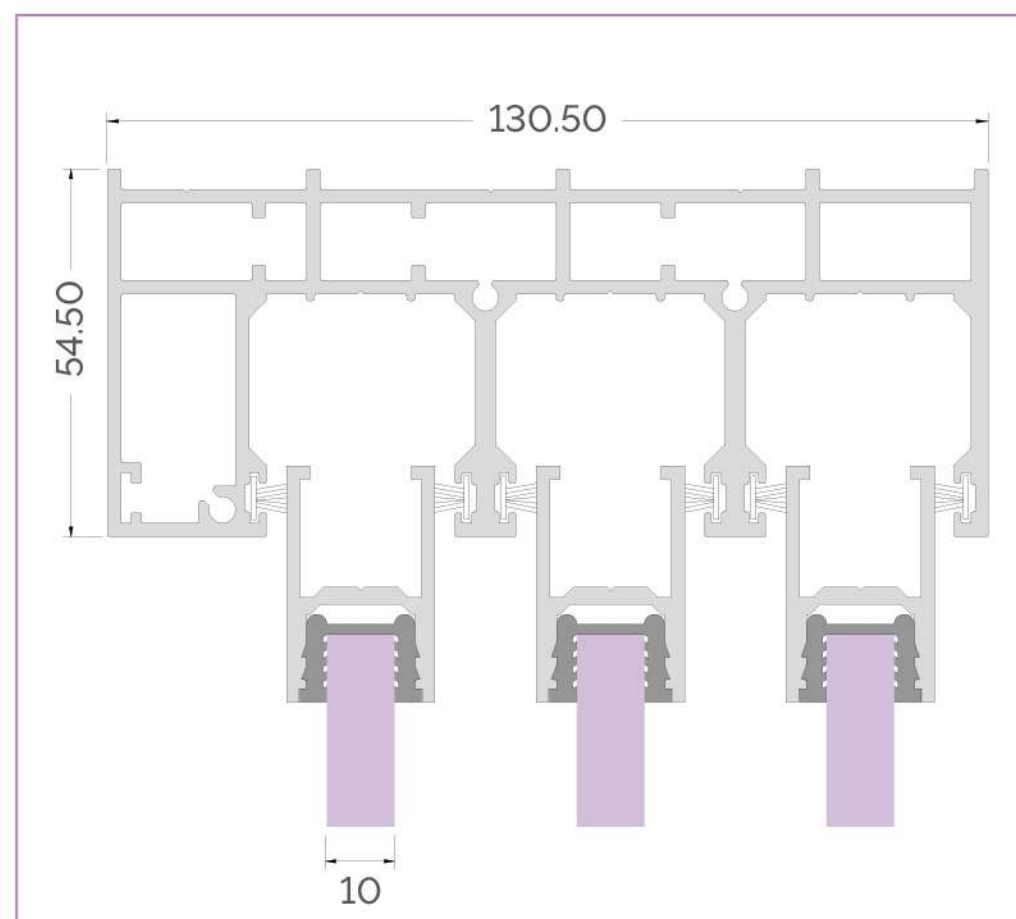
Details

| | |
|--------------------------|--|
| Sight Line or Face Width | 25mm |
| Section Joint | Corner Cleats fitting with Screws |
| Glass Thickness | SGU: 6mm / 8mm / 10mm DGU: 24mm / 26mm / 28mm |
| Rollers | Single / Double, Height Adjustable |
| Sliding Rail | Aluminium |
| Surface Finish | Powder Coating / PVDF / Anodized |
| Locking | Multipoint Locking System |
| Maximum Shutter Size | 4.5 sq m |
| Maximum Shutter Height | 3m |

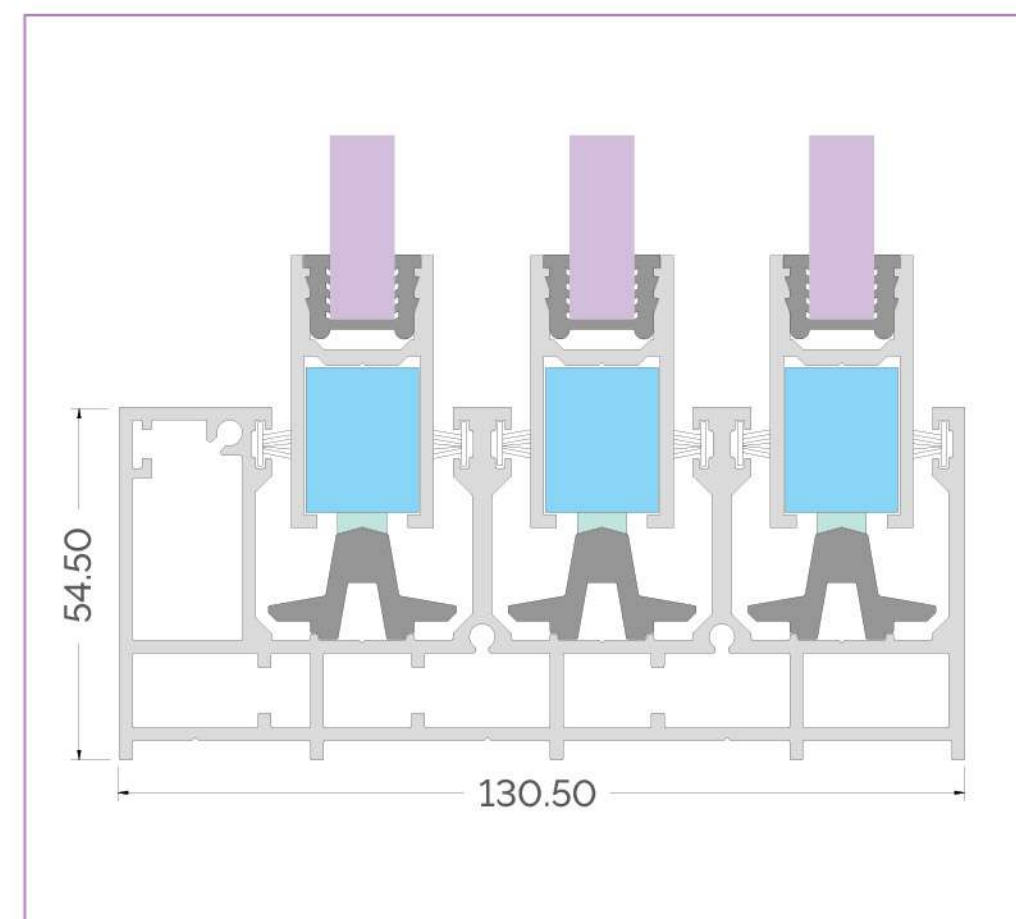
SLIMLINE® VIT 25

Performance Data

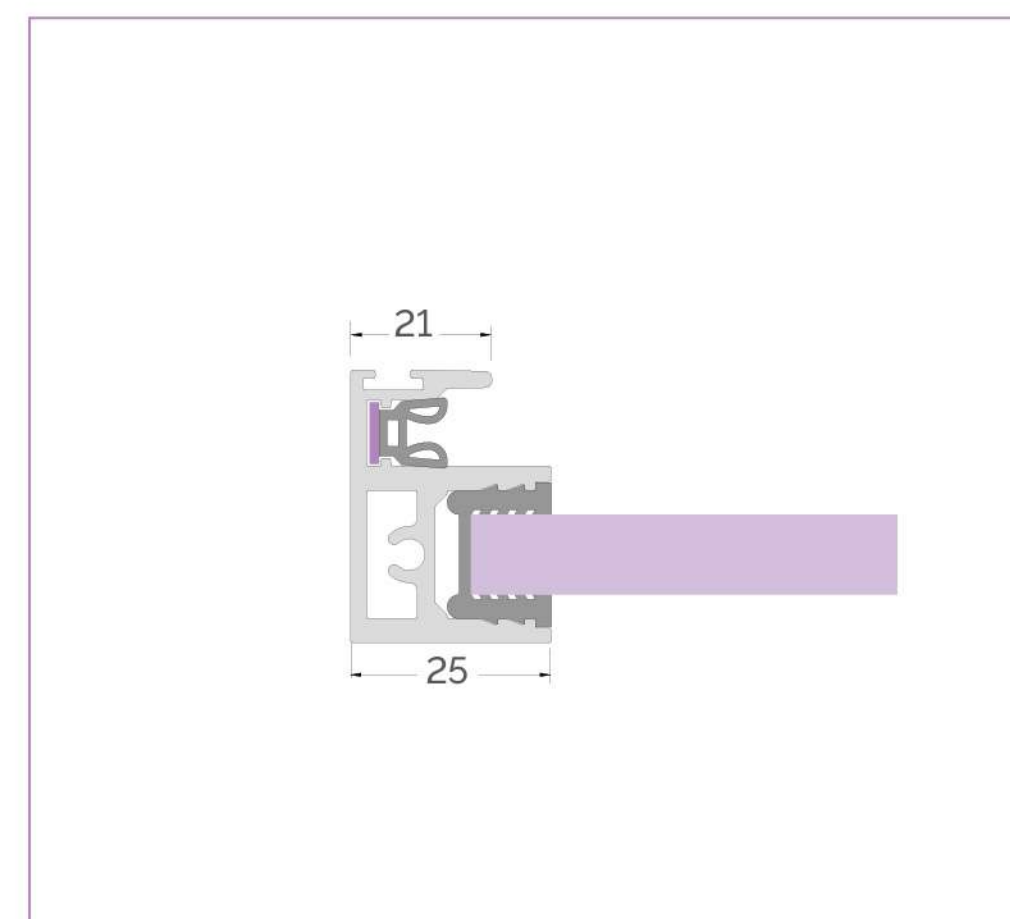
- Wind Resistance - up to 2 KPa
- Air Infiltration - 300 Pa
- Water Penetration - 390 Pa
- Sound Reduction - up to 34 dB for SGU & up to 32 dB for DGU



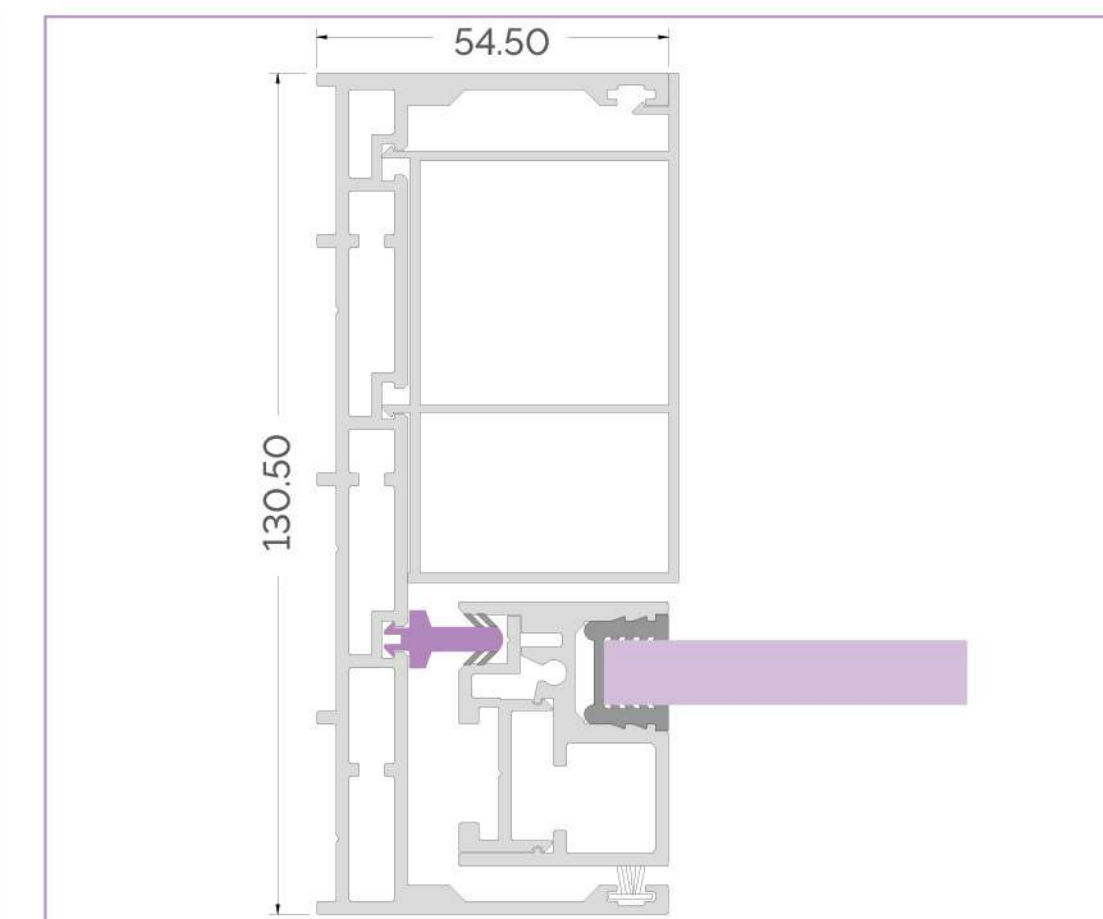
Top Section



Bottom Section

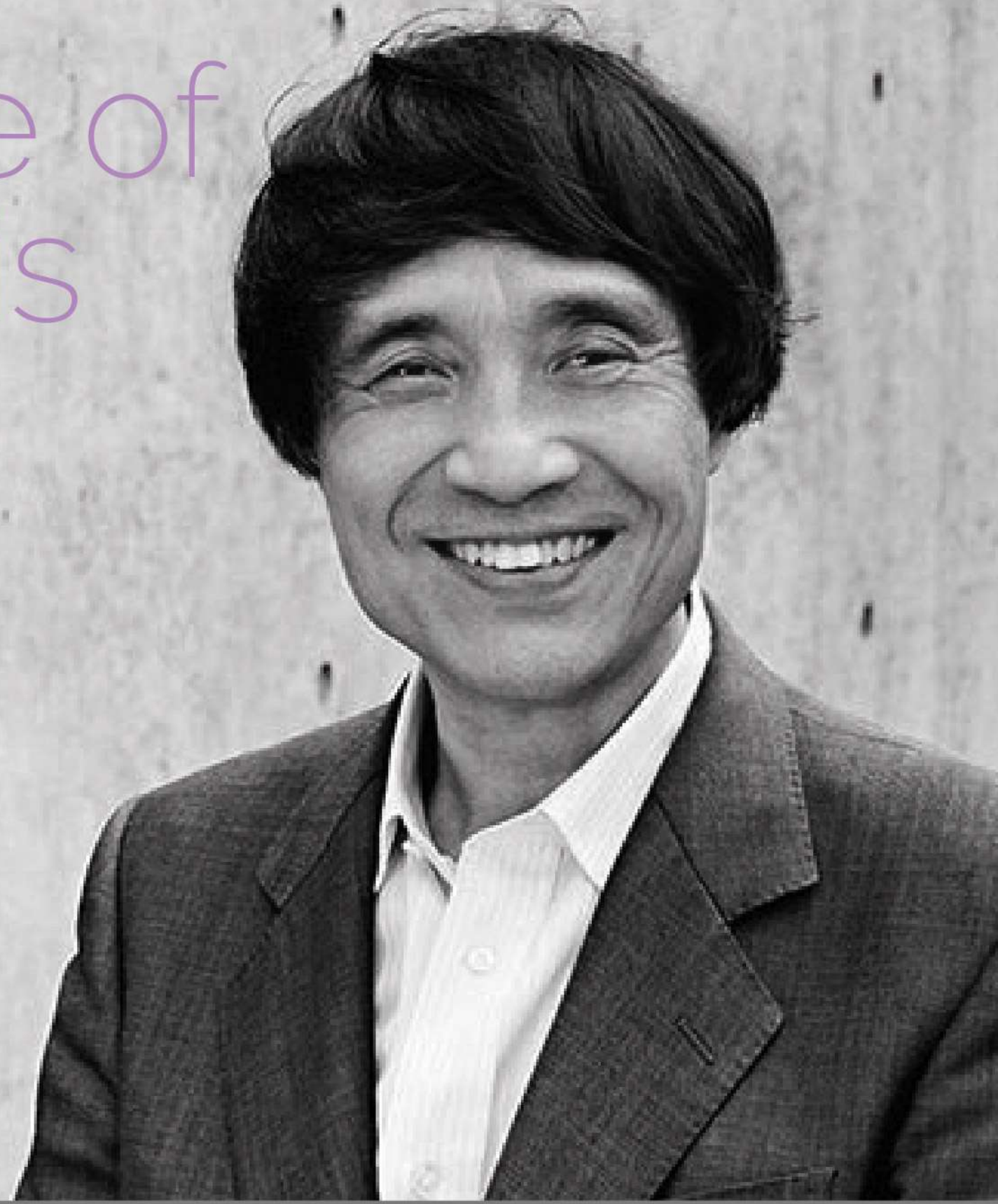


Interlock



L & R Section

The essence of
minimalism is
simplicity.



Tadao Ando 1941 - Present

Tadao Ando is a Japanese self-taught architect whose approach to architecture and landscape was categorized by architectural historian Francesco Dal Co as "critical regionalism". He is the winner of the 1995 Pritzker Prize.



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VITRUM®

SLIMLINE® VITTB

01 | Argon Gas

The gap in the DGU is filled with argon gas to reduce thermal conductance.

02 | Roller Bearings

Roller bearings are of 316 grade stainless steel and run on twin rail system. This ensures that the weight of the shutter is balanced between the bearings and leads to highly smooth operation.

03 | Cover Profile

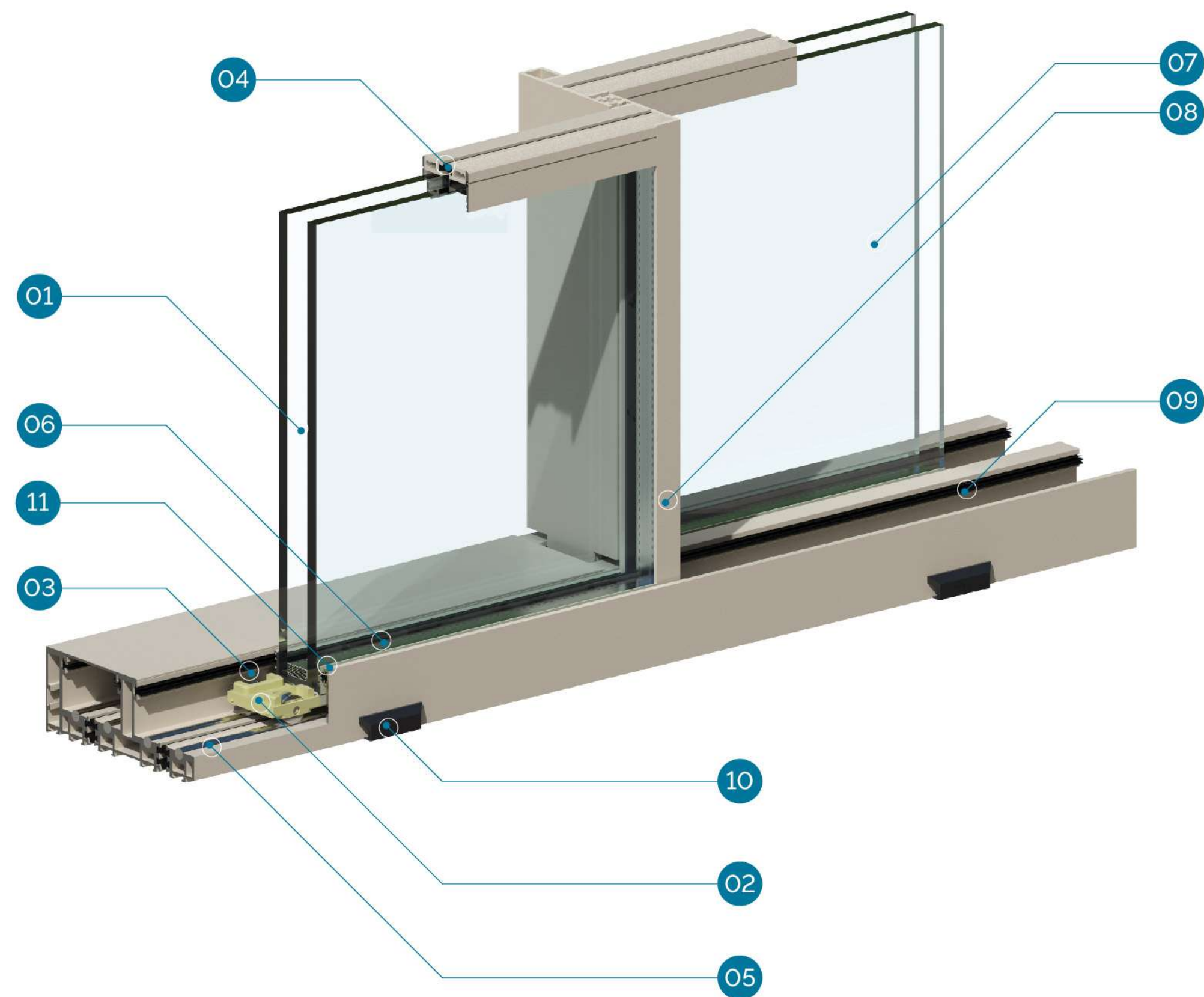
The metal covering for encasing the fixed shutter track merges with the window unit to elevate the aesthetic value of the whole unit. The cover profile acts as a protective shield, providing resistance against air, dust and water seepage

04 | Thermal Break

Thermal break strip integrated with the aluminium profile prevents direct exchange of heat between the outside environment and the room. This helps maintain the room temperature efficiently, minimizing energy losses of the room conditioning equipment. Uw Value - $\geq 1, 1 \text{ W}/(\text{m}^2\text{K})$ (depends on dimensions and glass type)

05 | Rail

The twin rail system has the rails made of 316 grade stainless steel. This facilitates easy sliding operation with least resistance for the heaviest of windows.



06 | Perforations

Perforations ensure that moisture is not accumulated in the glass-unit. This makes the glass unit anti-fog.

07 | Glass

DGU, DGU laminated, Sentry laminated, Reflective, Low-E & Burglar resistant are some of the commonly used glass types that provide flexibility. The standard Slimline system has an 8mm outer glass, an 18mm spacer and an 8mm inner glass, which results in a 34mm double glazed unit.

08 | Sight Line

The intelock / mullion between any two shutters is only 21mm thick.

09 | Three Fin Wool Pile

High quality brush is used to prevent air, water and dust penetration into the track.

10 | Drainage Slots

We have an integrated water management system, conducive even for torrential rain regions. The drainage slots are provided in each track of the profile to drain out water.

11 | Invisible Shutter-Frame

Top & bottom shutter-frame hides into the outer frame for a seamless glass view at the top and bottom, with the outer frame being concealed.

SLIMLINE® VIT TB

SLIMLINE® VIT TB

Vitrum minimizes interference, maximizes views and natural light with a minimalistic sliding window system, the Slimline® Series. Our latest VIT TB comes with thermally separate aluminium frame that ensures exceptional level of thermal insulation. The sliding panes can also achieve greater sizes to produce even more impressive elevations of sliding glass. The system's appeal can be enhanced by the ability to hide the outer frames within the wall and floor finishes, leaving only the slim horizontal sightlines visible.

The indigenous design with imported materials results in a high level of performance, look and feel. It is the perfect blend of aesthetics and functionality. The system can exhibit its optimum functionality when displayed using large sliding panels, opening corners and flush thresholds.

Sight Line

The system is frameless to the head, base and sides, leaving you with a clear glass opening merging the barriers between the inside and the outside space. These aluminium windows sit harmoniously side by side with an extremely slender vertical frame of only 21mm between glass panels. All the surrounding frameworks of the slimline windows can be discreetly integrated with the building surroundings.

Attributes

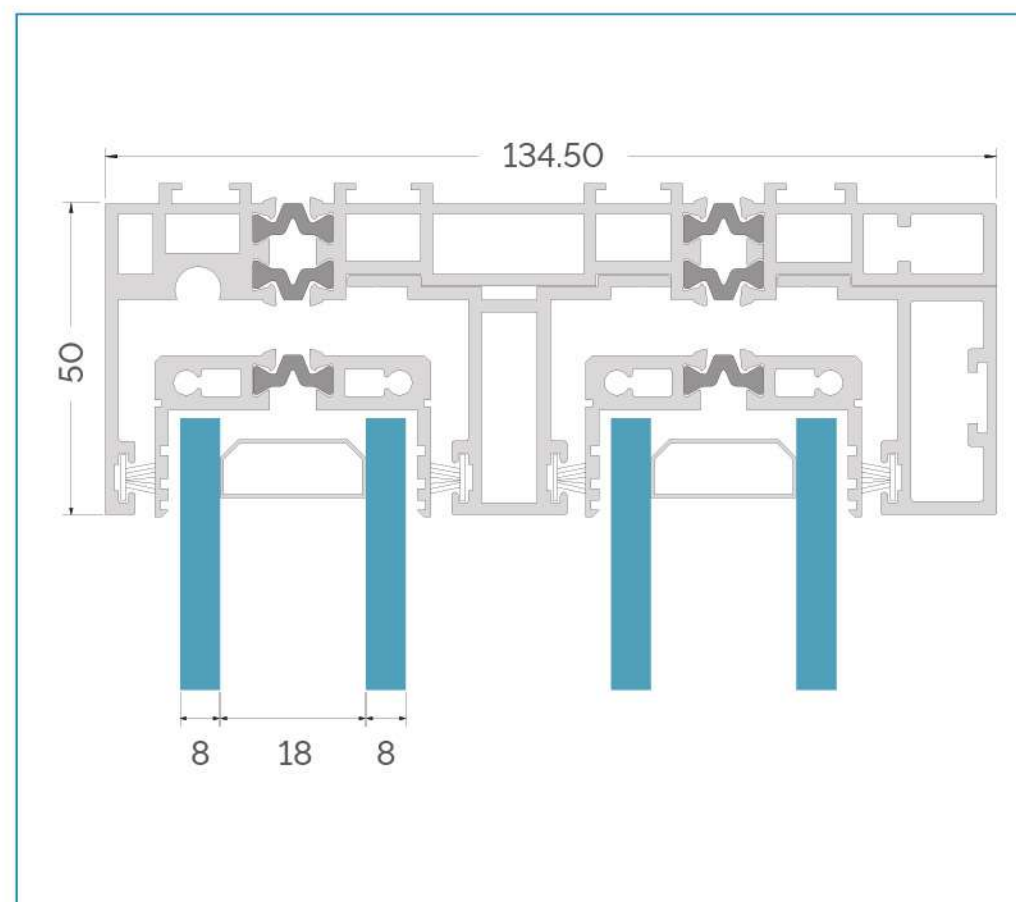
Details

| | |
|--------------------------|--------------------------------------|
| Sight Line or Face Width | 21mm onwards |
| Section Joint | Corner cleats with nails & Epoxy |
| Sash Degree | 90 degrees machine precision |
| Glass Thickness | 34mm to 44mm |
| Sliding Rail | Twin Rails with Stainless Steel- 316 |
| Roller Bearings | Stainless Steel - 316 |
| Surface Finish | Powder Coating / PVDF / Anodized |
| Maximum Shutter Size | up to 8 sq m |
| Maximum Shutter Height | 4.5m |
| Thermal Break | Polyamide |

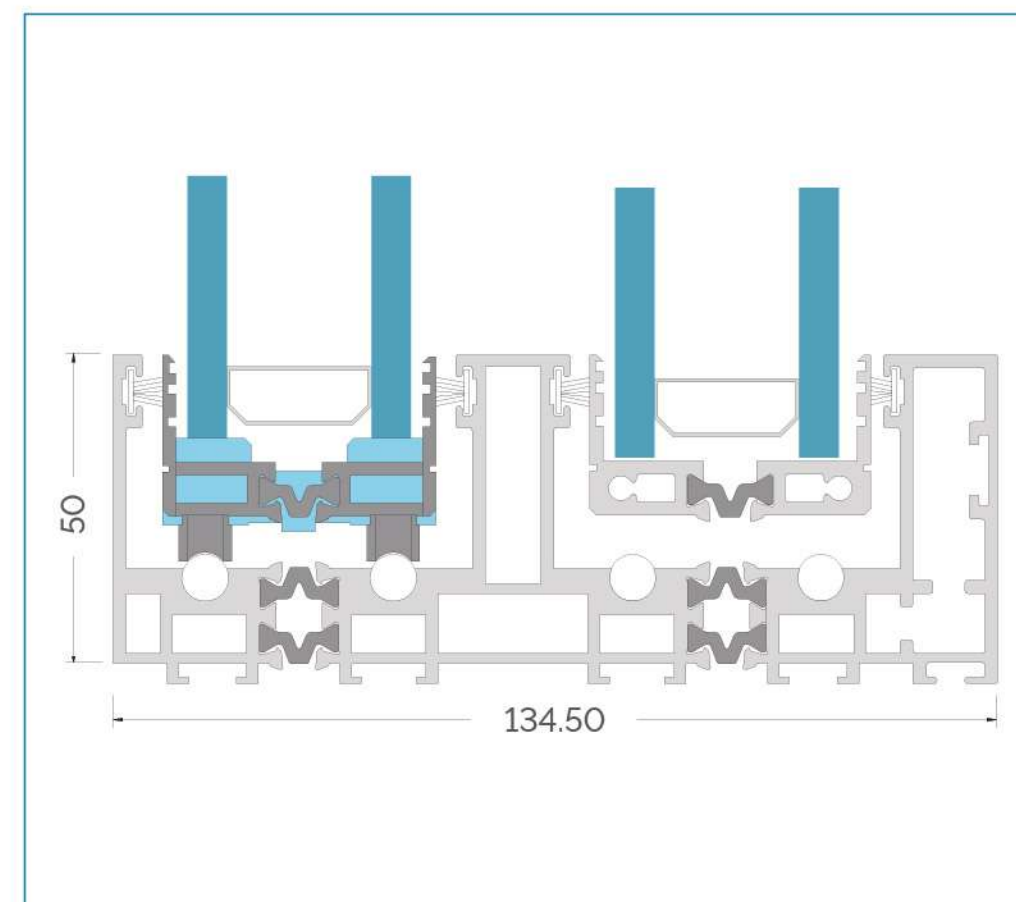
SLIMLINE[®] VIT TB

Performance Data

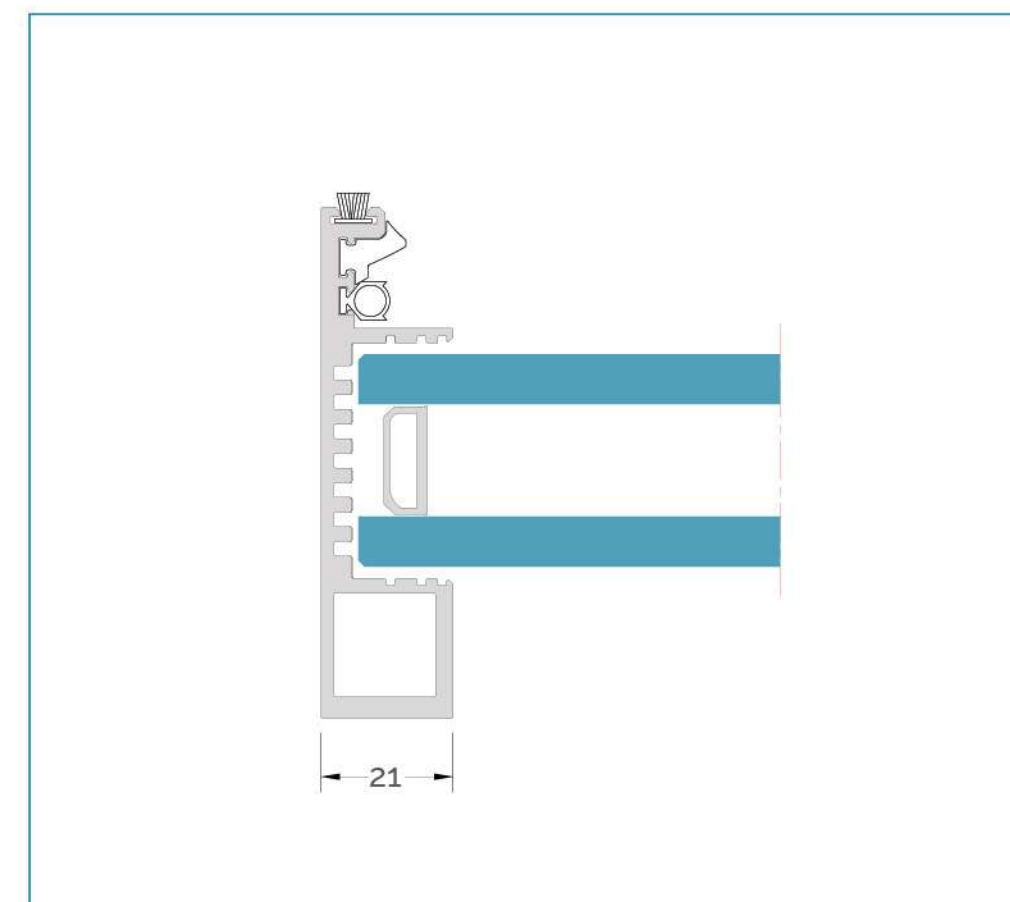
| | | |
|-------------------|---|---------------|
| Wind Resistance | - | up to 2.8 KPa |
| Air Infiltration | - | 300 Pa |
| Water Penetration | - | 390 Pa |
| Sound Reduction | - | up to 38 dB |



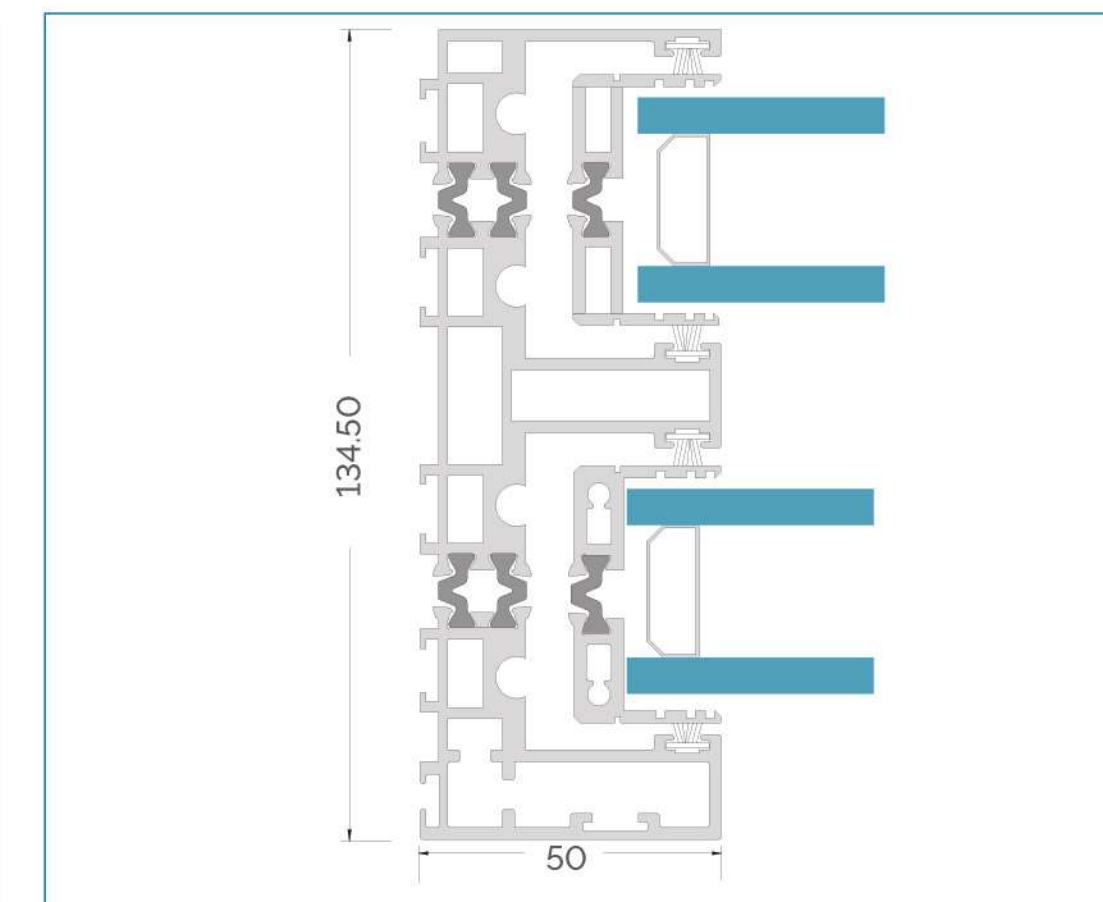
Top Section



Bottom Section

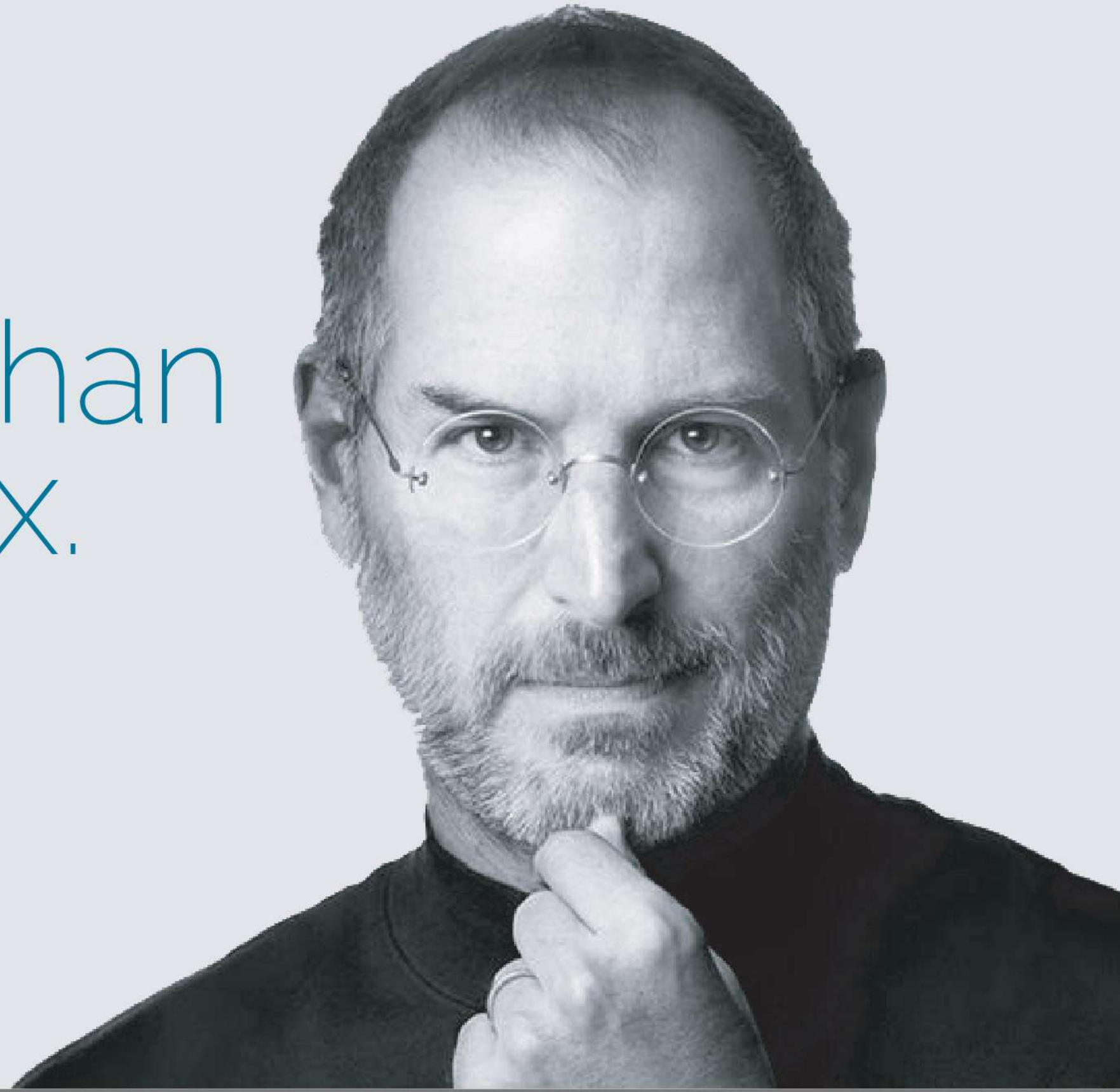


Interlock With handle



L & R Section

Simple
can be
harder than
complex.



Steve Jobs 1955 – 2011

Steven Paul Jobs was the chairman, chief executive officer (CEO), and co-founder of Apple Inc. Jobs is widely recognized as a pioneer of the microcomputer revolution of the 1970s and 1980s.



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