WORKING WITH SKY-FRAME.
A VIEW, NOT A WINDOW.
Working with Sky-Frame means creating living environments of unparalleled beauty, comfort and elegance. The frameless sliding door is a modular system that combines Swiss engineering ingenuity with timeless style, resulting in architectural elements that exude quality in every regard.
The various systems can be combined with glass panels of different thicknesses to provide an aesthetically pleasing solution with a range of useful functions. Once you have chosen the ideal system, you can select the appropriate glazing, and further tailor your system with a wide selection of additional features.

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### SKY-FRAME SYSTEM.

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### OPTION

**Track system**

<table>
<thead>
<tr>
<th>Original</th>
<th>Visible transition</th>
<th>●</th>
<th>●</th>
<th>●</th>
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</thead>
<tbody>
<tr>
<td>Plain*</td>
<td>Hidden, seamless transition</td>
<td>●</td>
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</table>

### TECHNOLOGY

**Glazing**

| Sky-Frame 1 | Single glazing |  ○ | | |
| Sky-Frame 2 | Double-glazed insulating glass |  ● | ● | ● |
| Sky-Frame 3 | Triple-glazed insulating glass |  ○ | ● | ● |

### FEATURES

| Fly | Insect screen |  ○ | | |
| Drive | Electric drive |  ● | * | * |
| Guard | Increased anti-burglary protection |  ● | * | * | * |
| Pocket | Hidden sliding door |  ● | ● | * |
| Inline | Flush-fitted glass panels |  ○ | * | * |
| Gun* | Bulletproof version |  ○ | | |
| Color | Customization |  ● | ● | ● |

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* standard  ○ only with the Original option  * on request
**SYSTEM**

**Sky-Frame Classic**
The rectilinear Classic door system has timeless appeal. True to the Bauhaus vision, the ceiling-height glass facades help to create a minimalist architecture in which the view takes center stage.
For technical details, see page 06.

**Sky-Frame Arc**
The organic forms of the Arc model serve to soften the contours of domestic architecture. The curved sliding panels offer a bold counterpoint to the linearity of the spatial and facade composition.
For technical details, see page 08.

**Sky-Frame Slope**
The Slope system allows the sliding doors to be installed at an angle. The inclined glass units can either extend into the room or project outwards from the facade. The distinctive spatial geometry offers a unique living experience.
For technical details, see page 10.

**Sky-Frame Pivot**
Thanks to its asymmetrically positioned axis, Sky-Frame Pivot, the glass-paneled pivot door, swings open easily with just a gentle push. The multipoint locking system guarantees safety and security.
For technical details, see page 12.

**OPTION**

**Sky-Frame Original**
A feeling of vast, wide-open space, even when the doors are shut: a track system that is fully concealed in the floor allows the doors to be completely frameless and transparent. Sky-Frame Original guarantees the optimal temperature inside while keeping heat and cold outside.
For technical details, see page 14.

**Sky-Frame Plain**
What sets Sky-Frame Plain apart is a hidden, seamless transition between the inside and the outside. The sliding door glides over an opening that is just ⅛” wide and fitted flush with floor. The space between these tracks is covered by the same flooring as the interior of the room, blurring any lines or divisions, creating a free flowing transition.
For technical details, see page 16.

**TECHNOLOGY**

**Sky-Frame 1**
The single-glazed Sky-Frame 1 system (¼”-⅛”) is suitable for for applications without thermal insulation requirements.
For technical details, see page 20.

**Sky-Frame 2**
The double-glazed Sky-Frame 2 assemblies (1 ¾") meet strict sound and thermal control requirements.
For technical details, see page 22.

**Sky-Frame 3**
The triple-glazed Sky-Frame 3 technology (2 ⅛") further enhances the thermal insulation performance to meet the most stringent standards.
For technical details, see page 24.

**FEATURES**

**Sky-Frame Fly**
Sky-Frame Fly makes it possible to enjoy summer weather without being plagued by insects. When not in use, the pleated screen fully retracts out of sight into the frame.
For technical details, see page 26.

**Sky-Frame Drive**
The electric drive facilitates straightforward and virtually noiseless operation of the sliding panels at the press of a button.
For technical details, see page 28.

**Sky-Frame Guard**
The Sky-Frame sliding door system is burglar-resistant and can, where required, be fitted with laminated safety glass and additional security hardware concealed in the frame. Alarm sensors can also be integrated to monitor the doors.
For technical details, see page 30.

**Sky-Frame Pocket**
When Sky-Frame Pocket is opened, the window panels slide into the wall, allowing the living spaces to be completely open.
For technical details, see page 32.

**Sky-Frame Inline**
Sky-Frame Inline’s elegant posts, with a width of just 1 ⅛”, fit flush with the frameless glass panels, resulting in a seamless and fluid glass membrane.
For technical details, see page 34.

**Sky-Frame Gun**
Security means quality of life, which is why Sky-Frame Gun features insulated security glass, reinforced frames, and vertical profiles to protect against gunfire.
For technical details, see page 36.

**Sky-Frame Color**
Sky-Frame offers the door profiles with colorless anodization. Alternatively, you can choose an individual color from the RAL, IGP or DB, or one of six anodized colors for the powder coating.
For technical details, see page 38.

**ENVIRONMENTAL ISSUES**

**NFRC**
All insulated glass units and technologies are NFRC certified (SKY-M-1) and meet the requirements of the NFRC regulations.

**NAMI**
Sky-Frame’s factory production monitoring is periodically inspected by the accredited third party NAMI.
SKY-FRAME CLASSIC
The name “Classic” evokes the timeless appeal of the rectilinear window system while highlighting its historical significance as the first-ever Sky-Frame system. The sliding doors comprise glass units with aluminum or glass-fiber-reinforced plastic (GRP) perimeter sections. Mounted in streamlined aluminum frames fitted flush with floor and ceiling, each unit rolls fluidly when operated. The system drainage for the flush assembly either runs via a recessed channel or is installed below a raised outdoor floor covering.
SKY-FRAME ARC
Sky-Frame Arc offers sliding glass panels to create curved fronts that lend organic, smooth contours to a residential space. The rounded glass units offer smooth running performance and can be equipped with an automatic drive. Meeting all Sky-Frame standards, the streamlined Arc system is an architectural feature that inspires endless additional design options.

Opening options

Straight edge (Classic) and curve (Arc) combination
Curve combination (Arc)
Sky-Frame Slope sliding doors can either extend into the room or project outwards from the facade at an angle of up to 20°. The system creates a distinctive spatial geometry while meeting all Sky-Frame standards. The bearing assembly accommodates all vertical and horizontal forces, thereby achieving superior running performance. Regardless of the direction of the door, the drainage system meets all requirements for driving rain resistance.
SKY-FRAME PIVOT
The Pivot system turns the simple act of opening a door into a creative experience: with a gentle push on the comfortable handle, the doors swing around the asymmetrically located axis, resulting in a temporary spatial structure. This could be the reason why Le Corbusier preferred this style of door. The multipoint locking system guarantees safety and security, while the optional electromechanical locking system ensures additional ease of use.
SKY-FRAME ORIGINAL
A feeling of vast, wide-open space, even when the doors are shut: the seamless transition between indoors and outdoors makes Sky-Frame Original a pioneer of modern design. The frameless doors are fully transparent thanks to a track system that is concealed in the floor—the result of 15 years of development. Compatible with all Sky-Frame products, Sky-Frame Original ensures that the temperature inside remains optimal while the heat and cold remain outside.

**Vertical section**
Ceiling and floor connection (scale 1:5)
SKY-FRAME PLAIN
What sets Sky-Frame Plain apart is a hidden, seamless transition between the inside and the outside. The sliding window glides over an opening that is just $\frac{3}{8}$" wide and fitted flush with floor. The space between these tracks is covered by the same flooring as the interior of the room, which blurs the line between indoors and outdoors, creating a pleasing effect for the senses.
The requirements for the thermal insulation, sound protection and wind-load stability vary depending on the situation and whether single glazing will suffice or multiple glazing is required. No matter the requirements, Sky-Frame 1–3 provides the right solution.
The single-glazed Sky-Frame 1 units are suitable for applications without thermal insulation requirements. The system also incorporates special sliding seals that offer a high level of sound control.

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>Sky-Frame 1</th>
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<tr>
<td>Panel sizes</td>
<td>10’ 6” × 13’ (larger on request)</td>
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<tr>
<td>Single glazing</td>
<td>1⁄4” – 1⁄2”</td>
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<td>Daylight / glass ratio</td>
<td>98 %</td>
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<tr>
<td>Watertightness to driving rain*</td>
<td>8 psf (up to 15 psf with heavy rain device GDE)</td>
</tr>
<tr>
<td>Air permeability*</td>
<td>≥0.06 cfm/ft²</td>
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<tr>
<td>Resistance to wind load*</td>
<td>tested up to 50 psf</td>
</tr>
<tr>
<td>Sound insulation up to</td>
<td>$R_{\text{wP}}$ 37 dB (EN ISO 717-1/EN ISO 10140)</td>
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<tr>
<td>Product ratings*</td>
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<table>
<thead>
<tr>
<th>Features</th>
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<tbody>
<tr>
<td>Sky-Frame Fly (insect screen)</td>
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</tr>
<tr>
<td>Sky-Frame Drive: single, telescopic</td>
<td></td>
</tr>
<tr>
<td>Connection to alarm system:</td>
<td></td>
</tr>
<tr>
<td>– Position monitoring</td>
<td></td>
</tr>
<tr>
<td>– Deadbolt monitoring</td>
<td></td>
</tr>
</tbody>
</table>

* Performances based on Sky-Frame 2
Horizontal section
Side wall junctions (scale 1:5)

Vertical section
Floor and ceiling junctions (scale 1:5)
Sky-Frame 2

The excellent sound and thermal control standards met by Sky-Frame 2 have made it the most popular Sky-Frame solution. The slim (only 1 3/16 inches) double-glazed insulating glass assembly has proven to be an outstanding performer in a wide range of climate zones.

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>Sky-Frame 2</th>
<th>Features</th>
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</thead>
<tbody>
<tr>
<td>U-value</td>
<td>0.33–0.35</td>
<td>Sky-Frame Fly (insect screen)</td>
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<tr>
<td>Panel sizes</td>
<td>7' 6&quot; × 13' (larger on request)</td>
<td>Sky-Frame Drive: single, telescopic (2–6 panels)</td>
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<tr>
<td>Insulating glass (double glazing)</td>
<td>1 3/16&quot;</td>
<td>Connection to alarm system:</td>
</tr>
<tr>
<td>Daylight/glass ratio</td>
<td>98%</td>
<td>– Position monitoring</td>
</tr>
<tr>
<td>Watertightness to driving rain</td>
<td>8 psf (up to 15 psf with heavy rain device GDE)</td>
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</tr>
<tr>
<td>Air permeability</td>
<td>≥0.06 cfm/ft²</td>
<td>– Deadbolt monitoring</td>
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<tr>
<td>Resistance to wind load</td>
<td>tested up to 50 psf</td>
<td>– Glass breakage sensor</td>
</tr>
<tr>
<td>Sound insulation up to</td>
<td>Rw,P 37 dB (EN ISO 717-1/EN ISO 10140)</td>
<td>Sky-Frame Guard:</td>
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<tr>
<td>NFRC</td>
<td>certified (SKY-M-1)</td>
<td>– RC2 (EN 1628, 1629, 1630/EN 1627*)</td>
</tr>
<tr>
<td>NAMI</td>
<td>certified</td>
<td>Connection to alarm system:</td>
</tr>
<tr>
<td>Product ratings</td>
<td>R-PG30, AW-PG50 (AAMA/WDMA/CSA 101/52/1440-08)</td>
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<td>– Position monitoring</td>
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<td>– Deadbolt monitoring</td>
</tr>
<tr>
<td></td>
<td></td>
<td>– Glass breakage sensor</td>
</tr>
</tbody>
</table>

22 TECHNOLOGY
Horizontal section
Side wall junctions (scale 1:5)
and temperature profile

Vertical section
Floor and ceiling junctions (scale 1:5)
and temperature profile
The Sky-Frame 3 technology, with its 2 ¼-inches thick insulating glass units, meets the highest standards. The triple-glazed insulating panels offer extra stability and even greater resistance to wind.

### Characteristics

<table>
<thead>
<tr>
<th>Sky-Frame 3</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>U-value</td>
<td>Sky-Frame Fly (insect screen)</td>
</tr>
<tr>
<td>Panel sizes</td>
<td>Sky-Frame Drive: single, telescopic (2–4 panels)</td>
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<tr>
<td>Insulating glass (triple glazing)</td>
<td>Connection to alarm system:</td>
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<td>Daylight/glass ratio</td>
<td>- Position monitoring</td>
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<tr>
<td>Watertightness to driving rain*</td>
<td>- Deadbolt monitoring</td>
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<tr>
<td>Air permeability*</td>
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<tr>
<td>Resistance to wind load*</td>
<td>Sky-Frame Guard:</td>
</tr>
<tr>
<td>Sound insulation up to</td>
<td>- RC2 (EN 1628, 1629, 1630/EN 1627*)</td>
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<td>NFRC</td>
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<td>Product ratings*</td>
<td>- Deadbolt monitoring</td>
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<tr>
<td></td>
<td>- Glass breakage sensor</td>
</tr>
</tbody>
</table>

* Performances based on Sky-Frame 2
Horizontal section
Side wall junctions (scale 1:5)
and temperature profile

Vertical section
Floor and ceiling junctions (scale 1:5)
and temperature profile
SKY-FRAME FLY
The Sky-Frame Fly insect screen is a minimalistic way to keep insects at bay. The frameless, pleated screen fully retracts into the frame when not in use. The combination of tear-resistant Vectran fiber tension cords and an integral system section guarantee maximum stability and weather resistance. Fly extends up to 40”.

**Horizontal section**
- Side wall junction (scale 1:5)
- Insect screen in closed position (top drawing)
- Insect screen in open position (bottom drawing)

max. 40”
Sky-Frame Drive's electric drive facilitates simple and virtually noiseless operation of up to 6 (3+3) sliding panels at the press of a button. The drive is concealed in the ceiling section and allows the window panels to move automatically.

Opening options

![Diagram showing different opening options for Sky-Frame Drive.](image-url)
SKY-FRAME GUARD
Sky-Frame Guard offers outstanding burglar resistance thanks to an adhesive bond between the insulating glass assembly and the GRP sections, as well as a multi-point locking system. Various additional components are available to meet further security requirements.

**Electronic components**
- Position monitoring (leaf)
- Deadbolt monitoring (lock)
- Glass breakage sensor (alarm loop)

These three security parameters can be electronically monitored by alarm sensors concealed in the unit, and the status information can be transmitted to a burglar alarm system.

**Mechanical components**
The Sky-Frame 2 and Sky-Frame 3 technologies have been inspected by ift Rosenheim and comply with the following anti-burglary protection class: **RC2** (EN 1628, 1629, 1630/EN 1627).
SKY-FRAME POCKET
With the Sky-Frame Pocket solution, rooms can be completely opened without any visible glass leaves. The sliding panels are recessed and hidden away from sight. Additional features, such as Sky-Frame Drive (electrically driven opening and closing), are also available.
SKY-FRAME INLINE
The Sky-Frame system is supplemented by elegant filigree posts, which have a minimal width of just $1\frac{3}{16}”$. Frame-less fixed glass panels can be combined with sliding doors, resulting in a seamless and fluid glass membrane.
With special insulated security glass (2-IG bullet resistant glass), reinforced frames, vertical profiles and defined building joints, Sky-Frame 3 Gun ensures optimal protection from gunfire.

The Swiss Federal Office for Defence Procurement (armasuisse) has rated Sky-Frame 3 Gun as FB4, NS (.44 Magnum, no spall).

**Bullet resistance**
Reinforced profiles with bulletproof glass (scale 1:5)
SKY-FRAME COLOR
Customize your own Sky-Frame sliding doors: choose your profile color and our experienced glaziers, metalworkers and coating specialists, all of whom are truly passionate about what they do, will create the ultimate system tailored to your specifics, resulting in a compelling, seamless architectural element.

Unique colors
In addition to the anodized colors shown below, you can choose any color from a range of palettes (RAL, IGP, DB) for the powder coating.

Anodized colors

- **E6 EV1**
  - colorless anodized standard

- **Colinal 3115**
  - chemically mattened surcharge

- **Colinal 3145**
  - chemically mattened surcharge

- **Colinal 3165**
  - chemically mattened surcharge

- **Colinal 3175**
  - chemically mattened surcharge

- **Colinal 3178**
  - chemically mattened surcharge

- **Colinal 3180**
  - chemically mattened surcharge
The spectacular frameless glass panels and flush transitions allow inside and outside to merge seamlessly into one another to form a living space. Ever since the first Sky-Frame window was installed in 2002, the Swiss company has helped to make more than 6,000 individual lifestyle dreams come true and create innovative living spaces around the world.

Sky-Frame develops and manufactures all of its premium products in Switzerland and regularly wins renowned design and business awards. Together with universities and research institutions, Sky-Frame continuously drives forward new solutions for ambitious living concepts.
Sky-Frame’s immense passion and in-depth understanding of architecture, spatial design, and technology has made it the leading international supplier of frameless sliding window systems.
WE LOVE WHAT WE DO.

REFERENCES.

A VIEW, NOT A WINDOW.