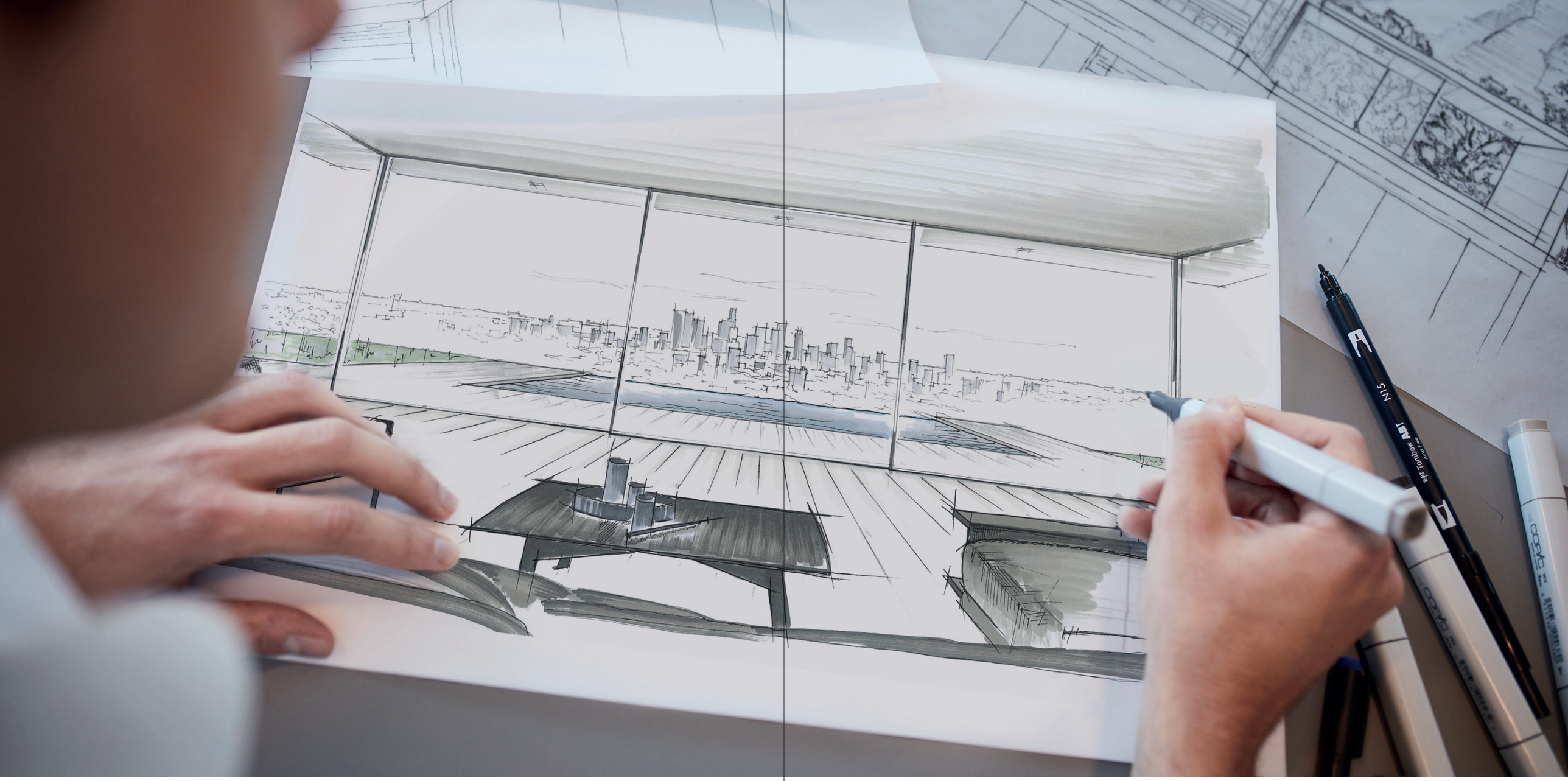
amadeus

Technical Guide

amadeus by AMARI



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amadeus sliding elements are a connection
between inside and outside, between elegance
and beauty, between dreams and reality.

www.amadeus.design

TECHNICAL DATA

amadeus is the high-class product among sliding doors.

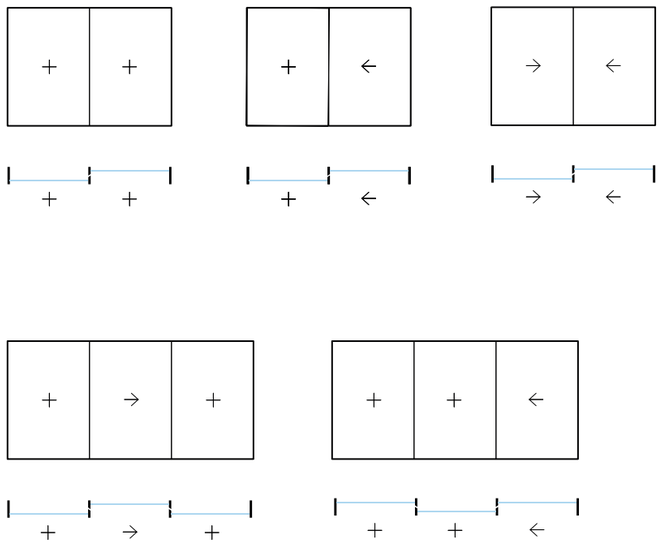
Track size (one track / two tracks / three tracks)	79 mm / 174 mm / 269 mm 3.11 in / 6.85 in / 10.59 in
Interlocking profile face width	25 mm / 33 mm 0.98 in / 1.29 in
Frame face width	60 mm / 70 mm 2.36 in / 2.76 in
Glass thickness	48 mm–58 mm 1.98 in–2.28 in
Max. sash sizes fixed element / sliding element	18 m^2 / 12 m^2 59.1 ft^2 / 39.4 ft^2
Standard sash height (bigger sizes upon request)	4.5 m 14.8 ft
Thermal performance	≥ Uw 0.68 W/(m^2K) ≥ Uw 0.12 Btu/(h.ft^2.F)
Calculation of the Uw value and the isotherm	NFRC 102
Air permeability	Class 4 (acc. to EN 1026 / EN 12207)
Load of wind-driven rain	Class 7a (acc. to EN 1027 / EN 12208)
Resistance against wind loads	Class B5 / C5 (acc. to EN 12211 / EN 12210)
Burglary safety	Class WK2 / RC2 (acc. to EN 1627)
Noise insulation	up to 42 dB
Opening cycles	Class 3 (20,000 cycles)
Barrier-free	DIN 18040-1, DIN 18040-2
Motorization	recommended from sash width of 2700 mm / 650 kg 106.3 in / 1433 lb

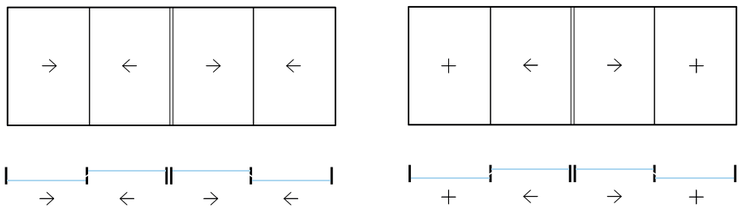
OPENING VARIANTS

amadeus makes the invisible irresistible.

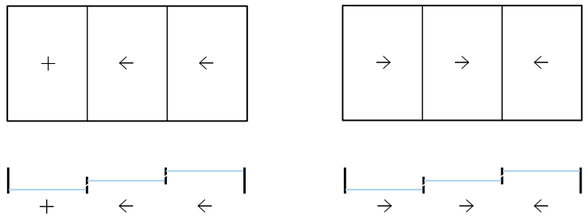
As well as touch, open up and expand.

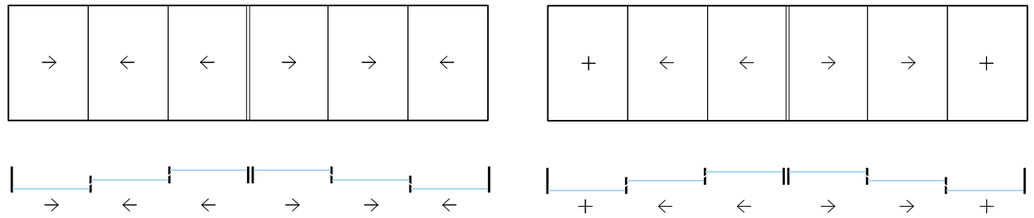
Opening options with two tracks



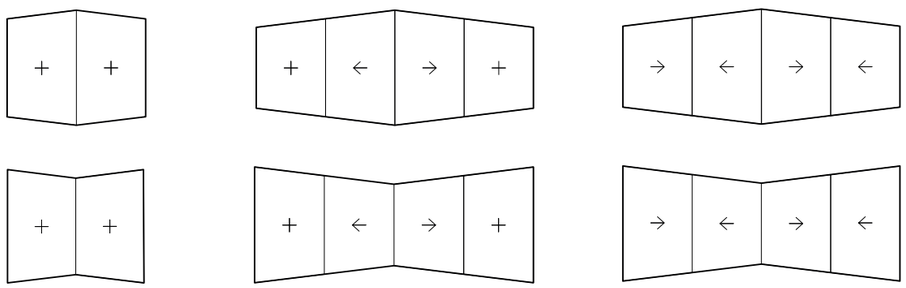


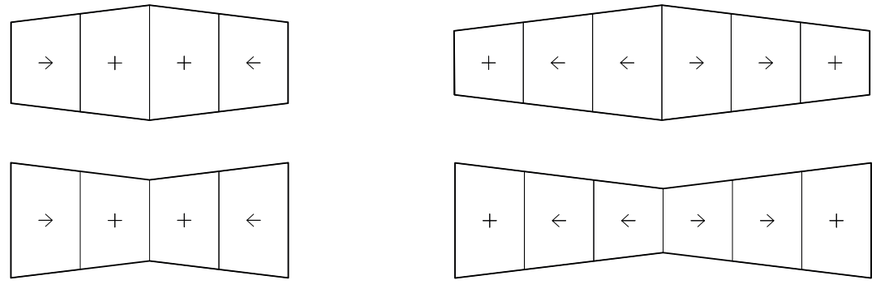
Opening options with three tracks



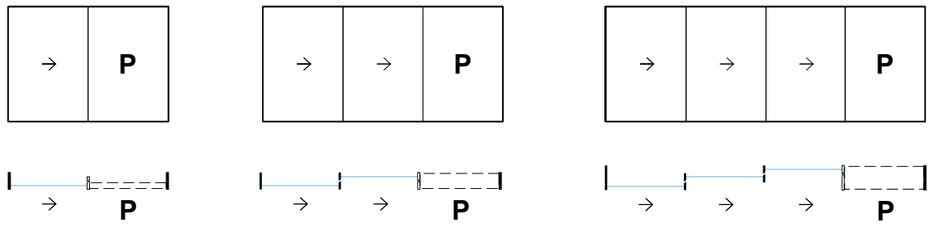


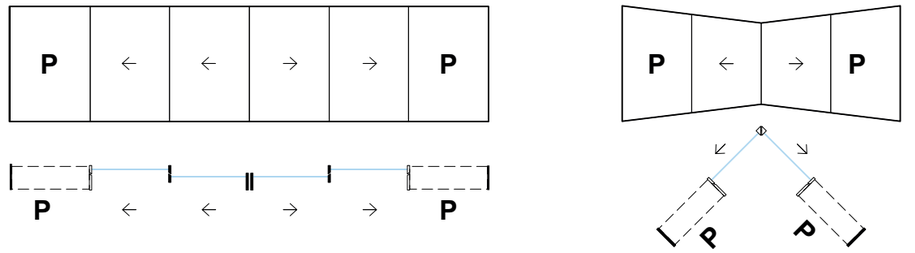
Opening options corner solutions



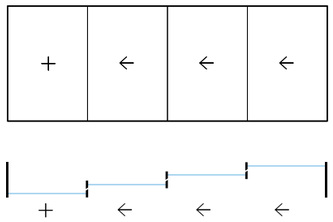


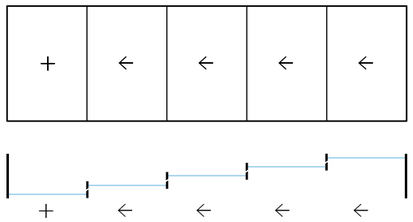
Opening options with pocket

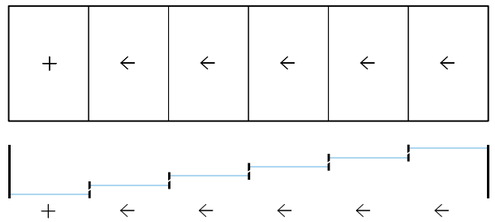




Opening options with multirail







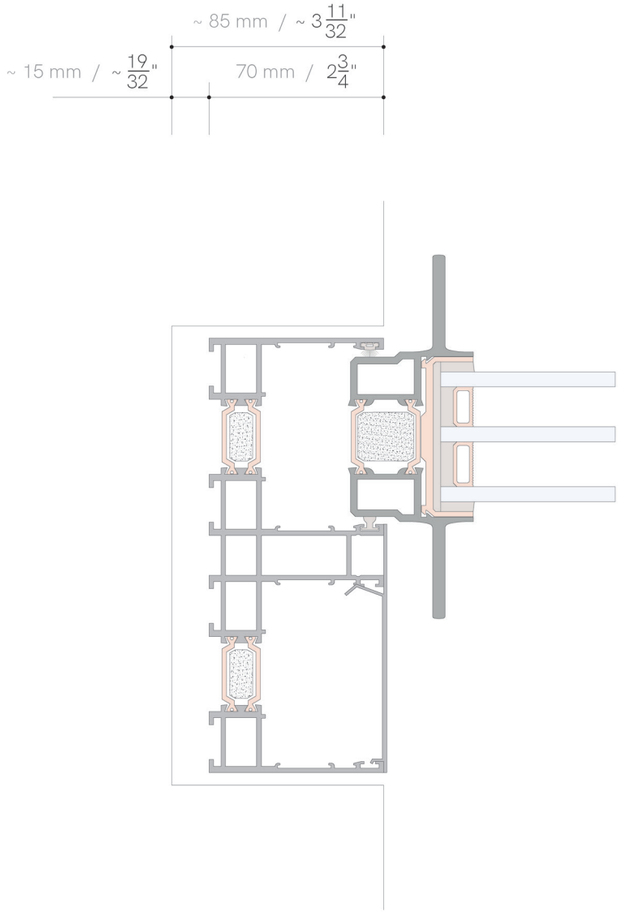
Endless Mutirail Tracks possible

SYSTEM DETAILS

System features by amadeus. Freedom of choice concerning shape, size and design.

Jamb detail of a sliding element

The prominent (salient) handle profile enables an easy handling of the sliding element.
The lateral frame will be installed flush to the wall.



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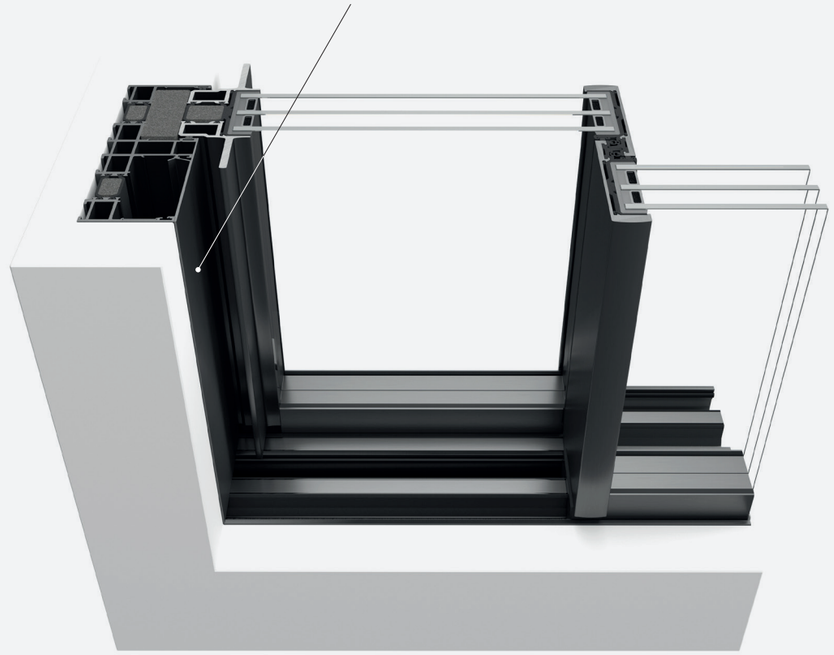
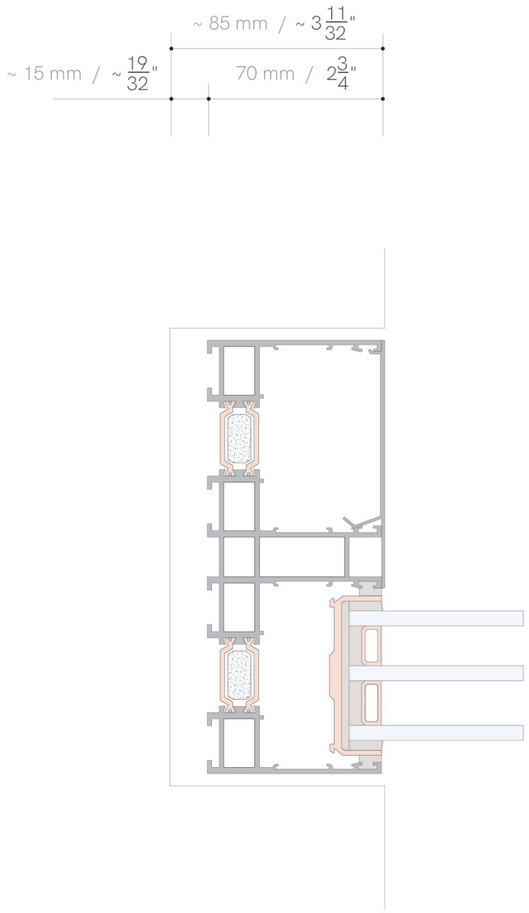
Frameless installation



Jamb detail of a fixed element

The frame will also be installed flush to the lateral wall. Even the fixed elements are invisible due to the in-frame position of the binding section. Due to the size of the glass front there is a seemingly invisible transition between the inside and the outside.



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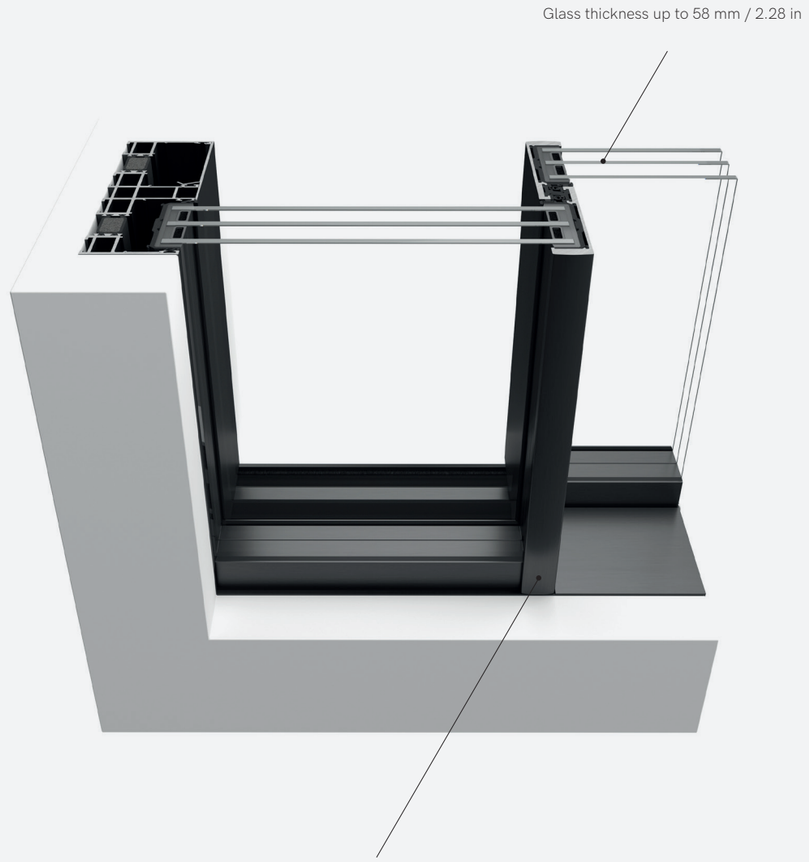
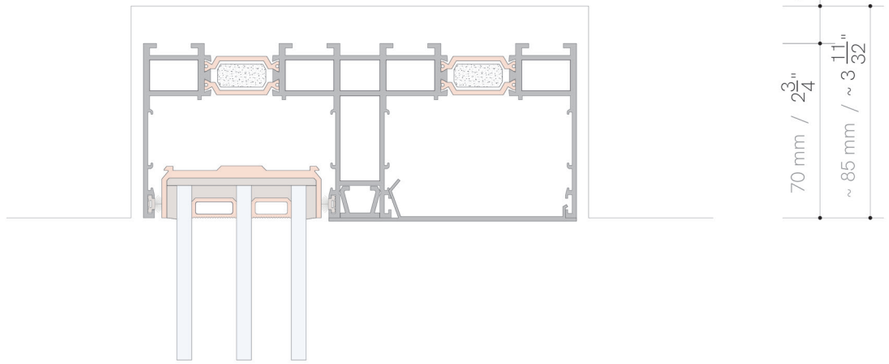


The smallest interlocking profile is usable for heights of up to 3000 mm / 9.84 ft possible

Head detail

The upper frame will be installed flush with the ceiling. And since all frames of the sliding elements are hidden in the frame structure a limitless view is achieved.



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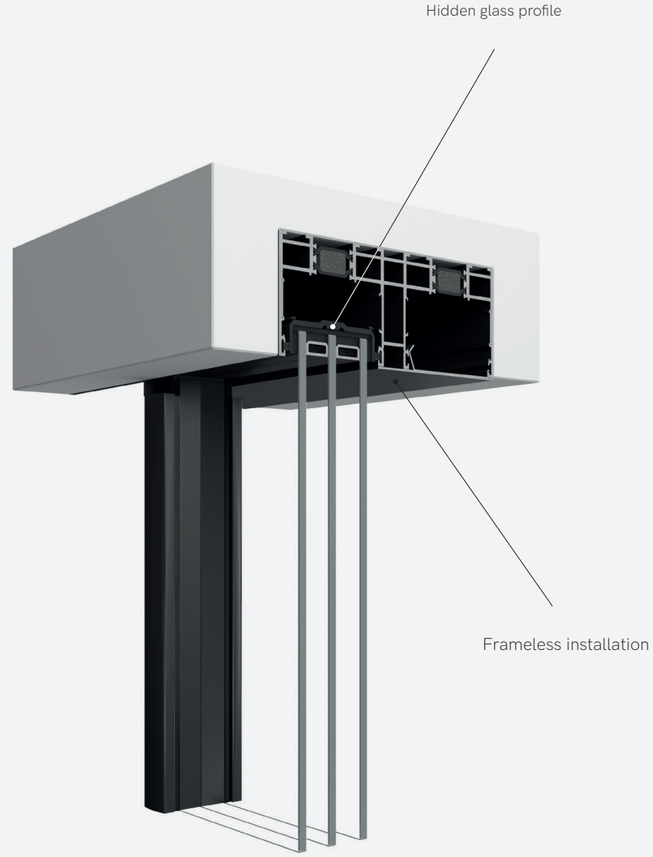
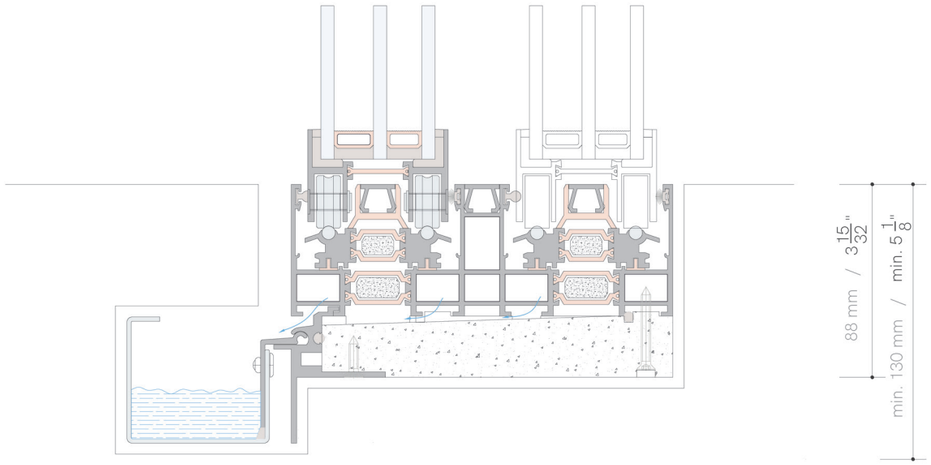


Sill detail · hidden drainage

The hidden drainage allows a barrier-free threshold from the inside to the outside area. The pre-assembled drainage profile offers an easy connection to the gutter, a perfect fit to the structure. The drainage is hidden underneath the outer floor, thus constitutes no optical impediment.



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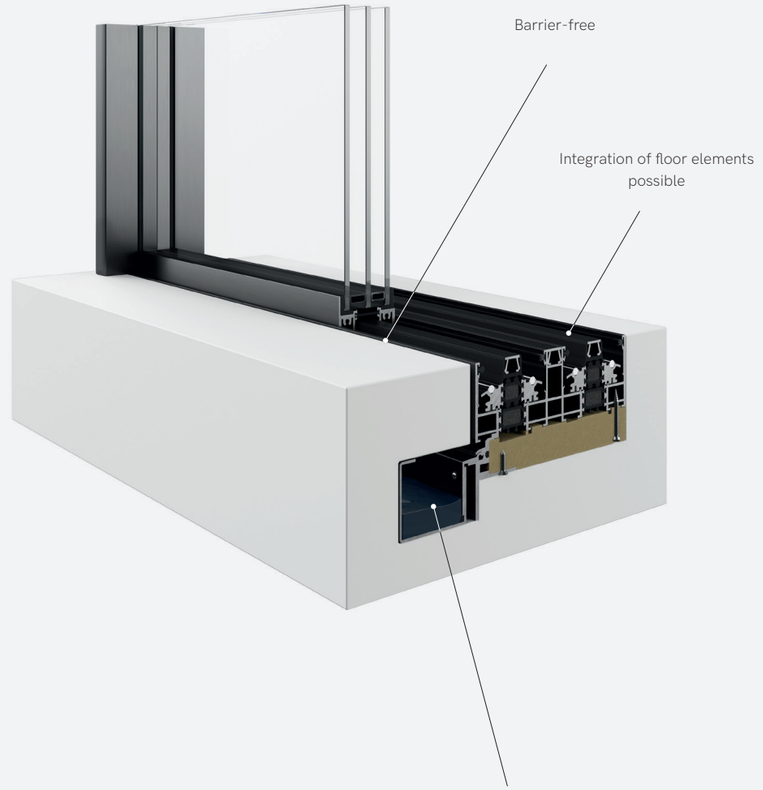
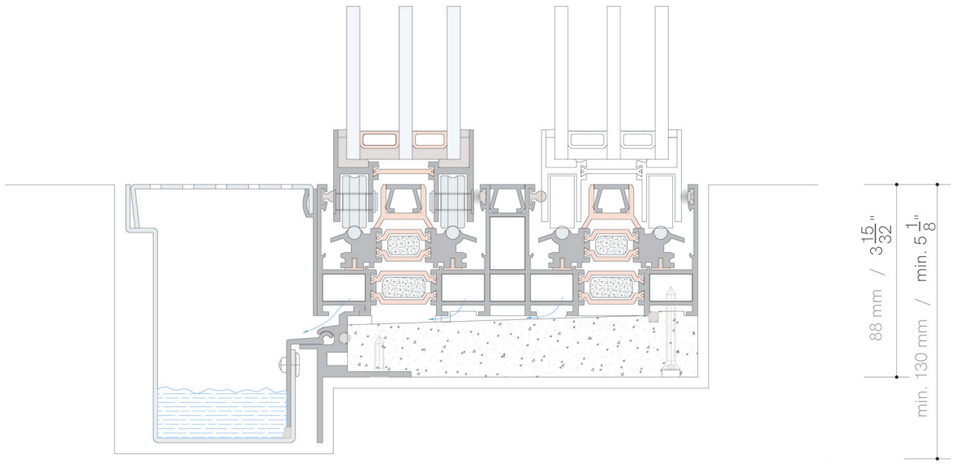


Sill detail · draining with gutter cover

The front gutter will be installed flush with the frame and the floor to assure a barrier-free crossing. Depending on the customer‘s preference, the cover can be designed individually and colored to match the amadeus frame profile.



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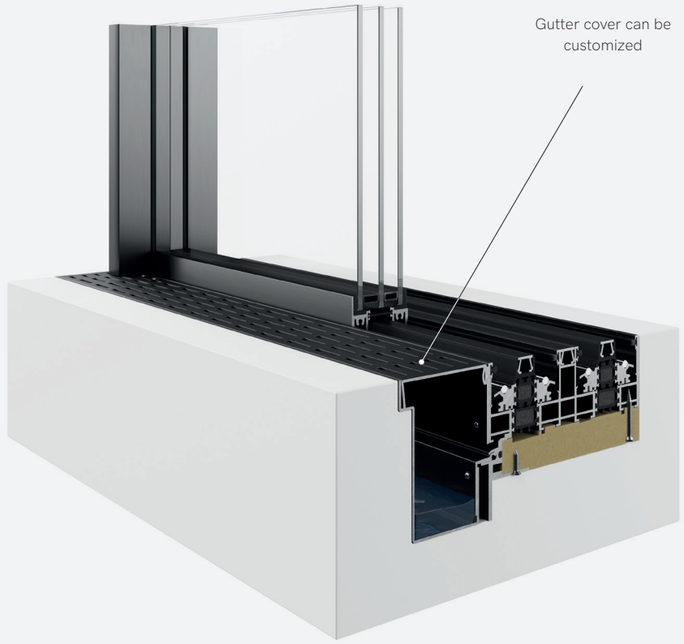


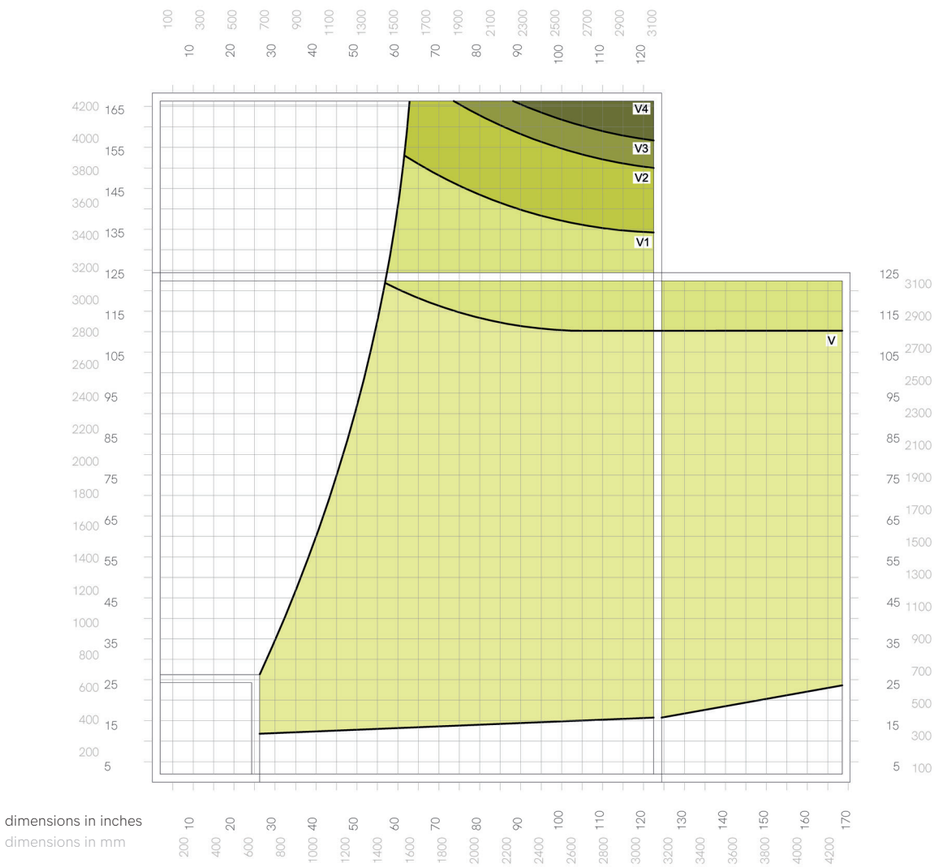
STATICS

amadeus guarantees security and sound insulation.
As well as absolute customer satisfaction.

Interlocking profile

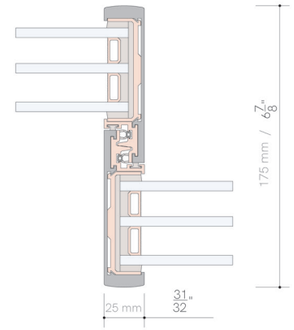
Besides amadeus‘ fine shape, we develop performance to the highest degree, even with the smallest interlocks for the connection between the sliding elements.

Wind speed 110 km/h, 68 mph
Wind loads 0.58 kN/m², 580 Pa



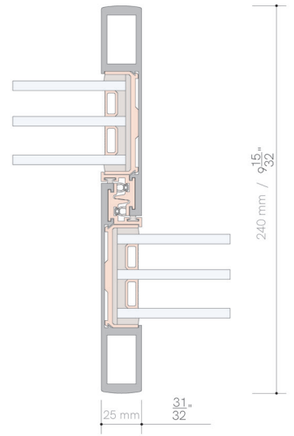
Wind loads	Max. height
110 km/h, 68 mph	2800 mm, 110 in
130 km/h, 80 mph	2580 mm, 106 in
150 km/h, 93 mph	2380 mm, 94 in
180 km/h, 112 mph	2140 mm, 84 in

V



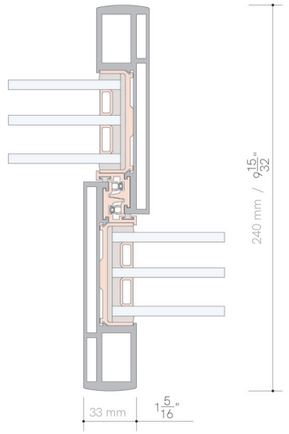
Wind loads	Max. height
110 km/h, 68 mph	3400 mm, 134 in
130 km/h, 80 mph	3120 mm, 123 in
150 km/h, 93 mph	2800 mm, 110 in
180 km/h, 112 mph	2490 mm, 98 in

V1



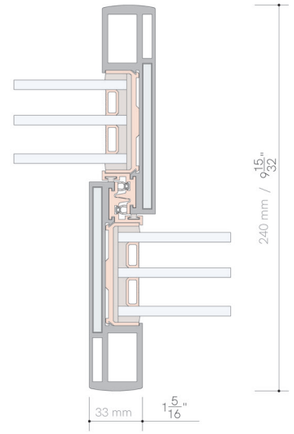
Wind loads	Max. height
110 km/h, 68 mph	3770 mm, 148 in
130 km/h, 80 mph	3480 mm, 137 in
150 km/h, 93 mph	3210 mm, 126 in
180 km/h, 112 mph	2960 mm, 115 in

V2



Wind loads	Max. height
110 km/h, 68 mph	4170 mm, 164 in
130 km/h, 80 mph	3840 mm, 151 in
150 km/h, 93 mph	3550 mm, 140 in
180 km/h, 112 mph	3250 mm, 128 in

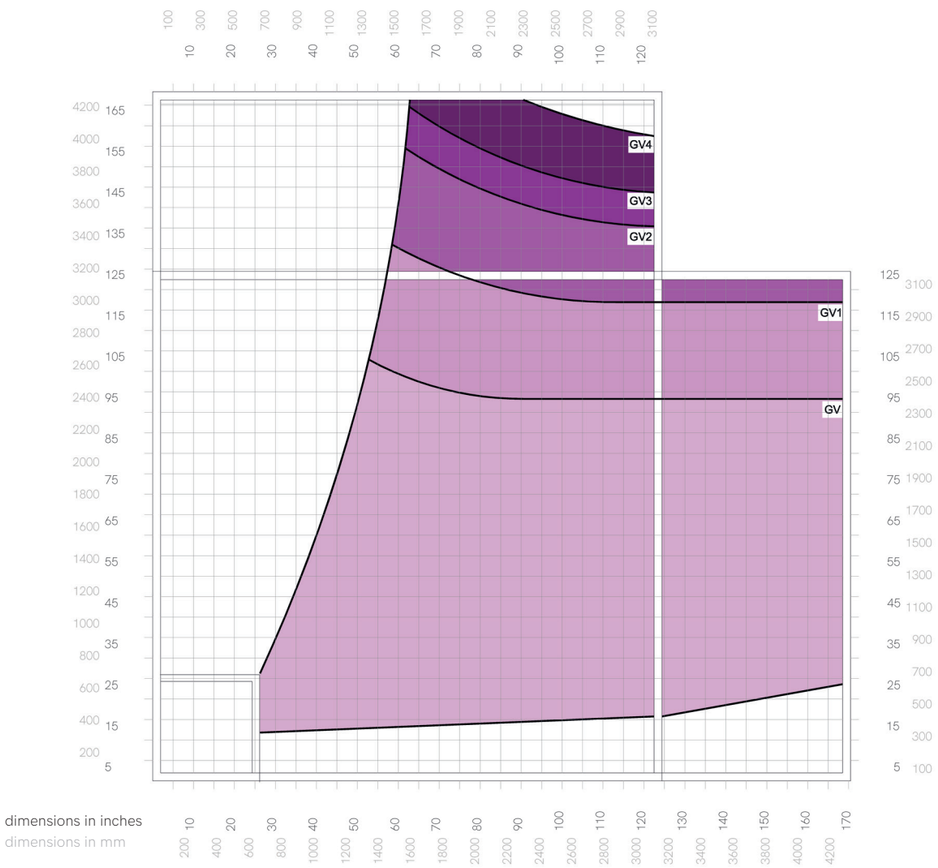
V3



Bilateral interlocks

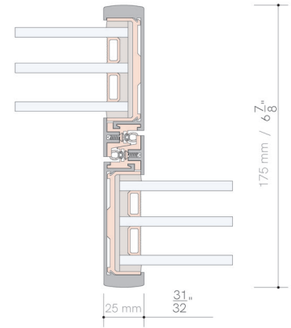
Obviously we develop the same high performance for the bilateral interlocks to achieve more variants.

Wind speed 110 km/h, 68 mph
Wind loads 0.58 kN/m², 580 Pa



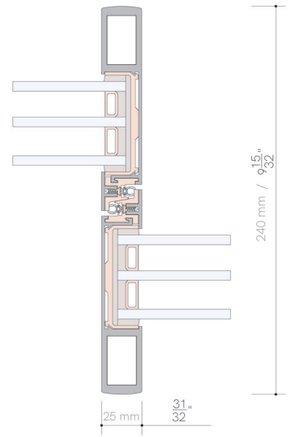
Wind loads	Max. height
110 km/h, 68 mph	2370 mm, 93 in
130 km/h, 80 mph	2190 mm, 86 in
150 km/h, 93 mph	2020 mm, 79 in
180 km/h, 112 mph	1820 mm, 71 in

GV



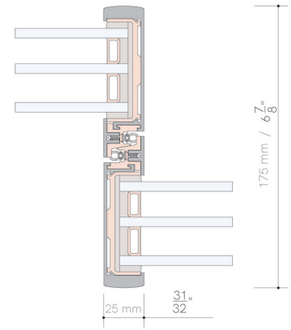
Wind loads	Max. height
110 km/h, 68 mph	2970 mm, 117 in
130 km/h, 80 mph	2730 mm, 107 in
150 km/h, 93 mph	2450 mm, 96 in
180 km/h, 112 mph	2180 mm, 86 in

GV1



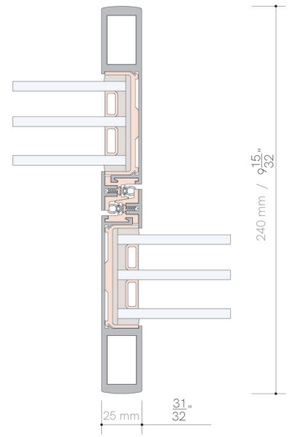
Wind loads	Max. height
110 km/h, 68 mph	3430 mm, 135 in
130 km/h, 80 mph	3170 mm, 124 in
150 km/h, 93 mph	2920 mm, 115 in
180 km/h, 112 mph	2680 mm, 105 in

GV



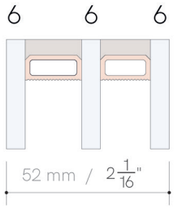
Wind loads	Max. height
110 km/h, 68 mph	3930 mm, 154 in
130 km/h, 80 mph	3630 mm, 143 in
150 km/h, 93 mph	3350 mm, 132 in
180 km/h, 112 mph	3070 mm, 121 in

GV1



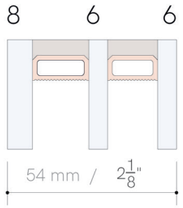
Glazing

You can choose from variations of glass in thickness, size and coating, based on your requirements.
TVG = Semi-tempered glass, ESG = Fully-tempered flat glass, VSG = Laminated safety glass



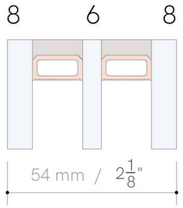
ESG6 / 18 / ESG6 / 16 / ESG6
ESG Glass U-value = 0.5 – 0.9

110 km/h – 0.58 kN/m² = 6.5 m² 68 mph – 0.084 lb/in² = 21.33 ft²
130 km/h – 0.8 kN/m² = 5.3 m² 80 mph – 0.116 lb/in² = 17.39 ft²
150 km/h – 1.1 kN/m² = 4.2 m² 93 mph – 0.159 lb/in² = 13.78 ft²



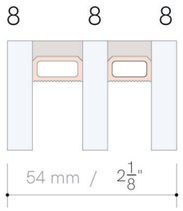
ESG8 / 18 / ESG6 / 16 / ESG6
ESG Glass U-value = 0.5 – 0.9

110 km/h – 0.58 kN/m² = 8.4 m² 68 mph – 0.084 lb/in² = 27.56 ft²
130 km/h – 0.8 kN/m² = 6.7 m² 80 mph – 0.116 lb/in² = 21.98 ft²
150 km/h – 1.1 kN/m² = 5.5 m² 93 mph – 0.159 lb/in² = 18.04 ft²



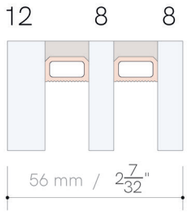
ESG8 / 16 / ESG6 / 16 / ESG8
ESG Glass U-value = 0.5 – 0.9

110 km/h – 0.58 kN/m² = 10.5 m² 68 mph – 0.084 lb/in² = 34.45 ft²
130 km/h – 0.8 kN/m² = 8.1 m² 80 mph – 0.116 lb/in² = 25.58 ft²
150 km/h – 1.1 kN/m² = 6.5 m² 93 mph – 0.159 lb/in² = 21.33 ft²



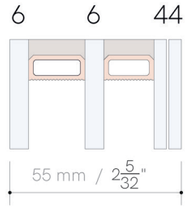
ESG8 / 16 / ESG8 / 14 / ESG8
ESG Glass U-value = 0.6 – 0.9

110 km/h – 0.58 kN/m² = 11.5 m² 68 mph – 0.084 lb/in² = 37.73 ft²
130 km/h – 0.8 kN/m² = 9.3 m² 80 mph – 0.116 lb/in² = 30.51 ft²
150 km/h – 1.1 kN/m² = 7.6 m² 93 mph – 0.159 lb/in² = 24.93 ft²



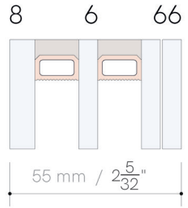
ESG8 / 14 / ESG8 / 14 / ESG12
ESG Glass U-value = 0.6 – 0.9

110 km/h – 0.58 kN/m² = 18.3 m² 68 mph – 0.084 lb/in² = 60.04 ft²
130 km/h – 0.8 kN/m² = 13.4 m² 80 mph – 0.116 lb/in² = 43.96 ft²
150 km/h – 1.1 kN/m² = 10.9 m² 93 mph – 0.159 lb/in² = 35.76 ft²



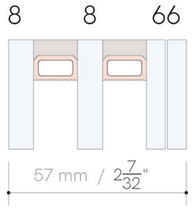
ESG6 / 18 / ESG6 / 16 / VSG44.2
VSG44.2 = FLOAT 4 / PVB 0.72 / FLOAT 4
ESG Glass U-value = 0.5 – 0.9

110 km/h – 0.58 kN/m² = 6.0 m² 68 mph – 0.084 lb/in² = 19.69 ft²
130 km/h – 0.8 kN/m² = 5.7 m² 80 mph – 0.116 lb/in² = 18.70 ft²
150 km/h – 1.1 kN/m² = 3.8 m² 93 mph – 0.159 lb/in² = 12.47 ft²



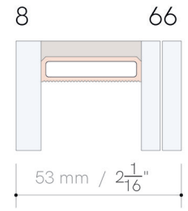
ESG8 / 14 / ESG6 / 14 / VSG66.2
VSG66.2 = FLOAT 6 / PVB 0.72 / FLOAT 6
ESG Glass U-value = 0.6 – 0.9

110 km/h – 0.58 kN/m² = 9.6 m² 68 mph – 0.084 lb/in² = 31.50 ft²
130 km/h – 0.8 kN/m² = 7.8 m² 80 mph – 0.116 lb/in² = 25.59 ft²
150 km/h – 1.1 kN/m² = 6.2 m² 93 mph – 0.159 lb/in² = 20.34 ft²



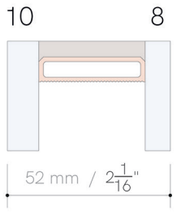
ESG8 / 14 / ESG8 / 14 / VSG66.2
VSG66.2 = FLOAT 6 / PVB 0.72 / FLOAT 6
ESG Glass U-value = 0.6 – 0.9

110 km/h – 0.58 kN/m² = 10.9 m² 68 mph – 0.084 lb/in² = 35.76 ft²
130 km/h – 0.8 kN/m² = 9.0 m² 80 mph – 0.116 lb/in² = 29.53 ft²
150 km/h – 1.1 kN/m² = 7.3 m² 93 mph – 0.159 lb/in² = 23.95 ft²



ESG8 / 32 / VSG66.2
VSG66.2 = FLOAT 6 / PVB 0.72 / FLOAT 6
ESG Glass U-value = 0.9 – 1.4

110 km/h – 0.58 kN/m² = 8.4 m² 68 mph – 0.084 lb/in² = 27.56 ft²
130 km/h – 0.8 kN/m² = 6.8 m² 80 mph – 0.116 lb/in² = 22.31 ft²
150 km/h – 1.1 kN/m² = 5.5 m² 93 mph – 0.159 lb/in² = 18.05 ft²



ESG8 / 32 / ESG10
ESG Glass U-value = 0.9 – 1.4

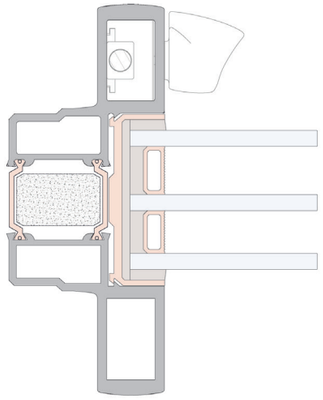
110 km/h – 0.58 kN/m² = 11.2 m² 68 mph – 0.084 lb/in² = 36.75 ft²
130 km/h – 0.8 kN/m² = 9.3 m² 80 mph – 0.116 lb/in² = 30.51 ft²
150 km/h – 1.1 kN/m² = 7.5 m² 93 mph – 0.159 lb/in² = 26.61 ft²

LOCKING MECHANISM

Our only guideline concerning design and production: whatever you desire.

Two-point lock

The standard locking mechanism is going to be controlled manually and shifts two counter-rotating bars in the upper and lower shaft sleeves. This also enables a controlled ventilation. The locking system is integrated into the handle or interlocking profile and can be moved with an ergonomic handle.

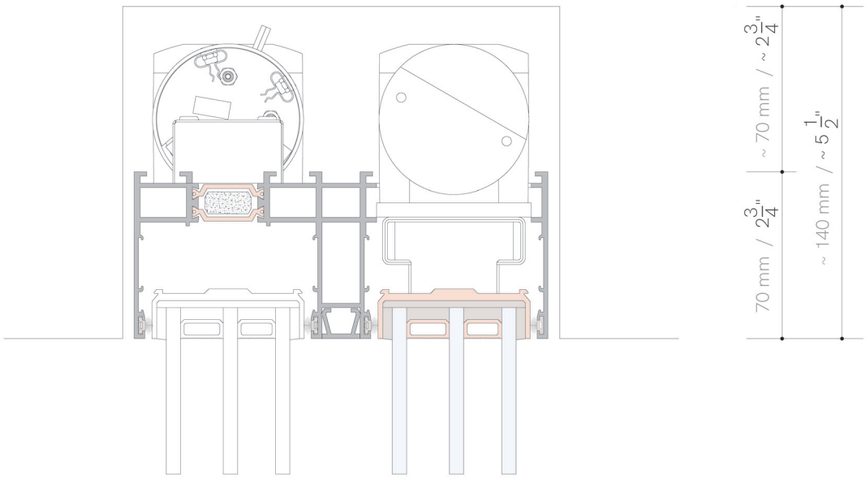


Customizing

Part of the individual options are for instance different handles available from the amadeus catalogue. It is also possible to modify these according to your wishes. Or even design new ones following your individual specifications.

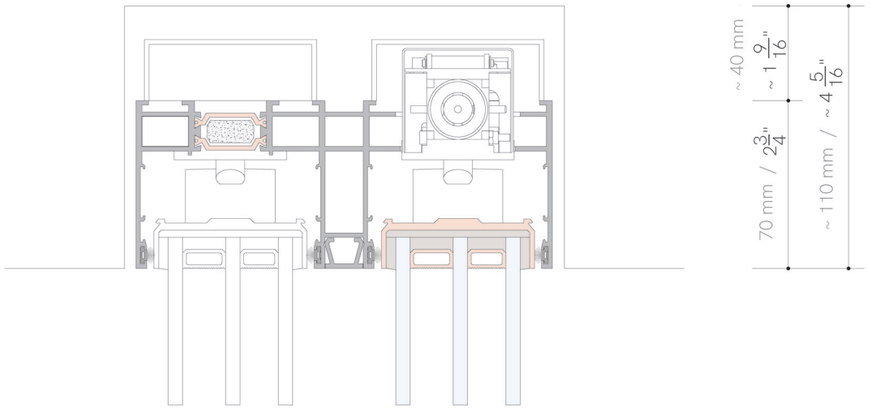
Motorization

Should you have oversized sliding elements, you may choose a motorization that can be used via a remote control or a sensor on the wall. It makes sense to install motors with sash weights of 650 kg, 1433 lb or more and sash widths from 2700 mm / 106.3 in.



Electronic locking system

Should you want to lock electronically, we will realize this option for you. And if you have a home security system, you can also connect the two in order to gain maximum control of your security.



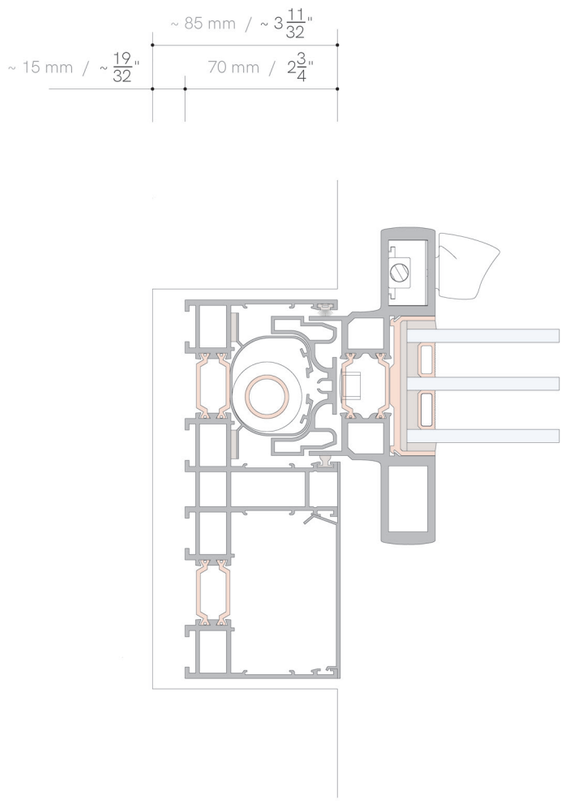
OPTIONS

Possibilities and variety enrich our lives.

Upgrades for your amadeus.

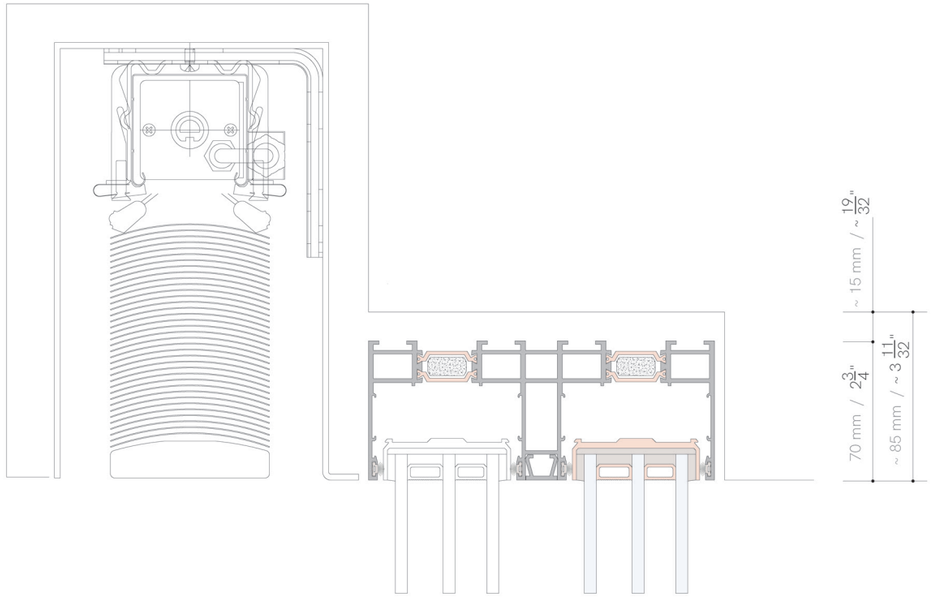
Invisible Insect Screen

To gain the maximum of enjoyment and natural ventilation, based on a design product, we have developed a unique integrated screen solution. It is not only made of fiberglass and has an outstanding color. These dimensions of 4000 mm / 157.5 in height as well as 1500 mm / 59.1 in width are only achieveable with the amadeus insect screen.



Shading

To avoid overheating your living room in spite of the large glass fronts, we offer shading systems than can be customized to your requirements.



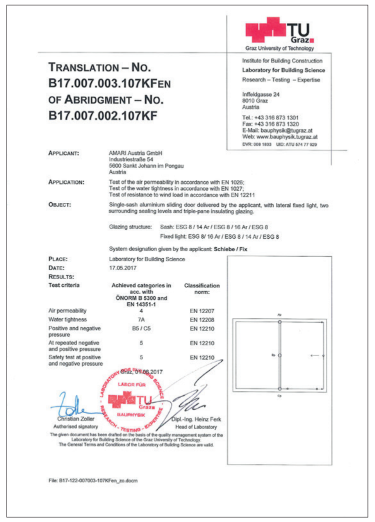
CERTIFICATIONS

Precision is key. Our accuracy ensures that only a perfect amadeus leaves the factory.

Certificates

The fact that amadeus is a solid and efficient minimalistic sliding system with enormous static capabilities is evidenced by our certificates from the relevant testing institutes. All available performance parameters can be found in the Technical Information on page 7.


CENTRUM STAVEBNÍHO INŽENÝRSTVÍ a.s.
CERTIFICATE
for the characteristic of the product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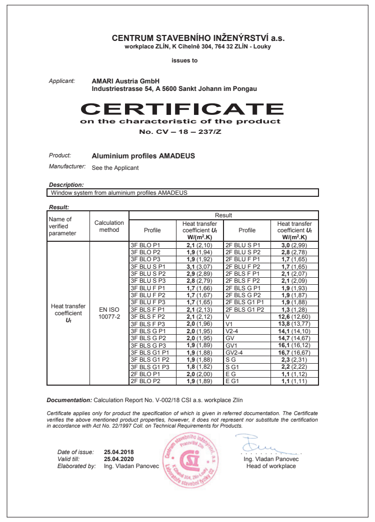
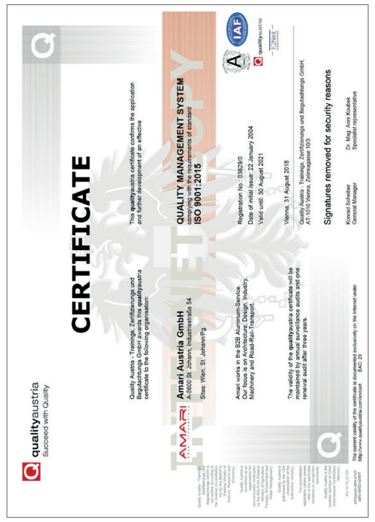
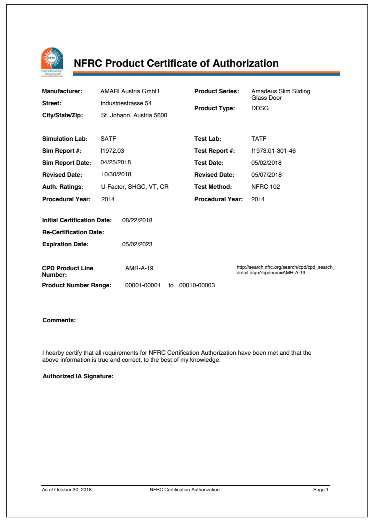

CENTRUM STAVEBNÍHO INŽENÝRSTVÍ a.s.
CERTIFICATE
on the characteristic of the product


CERTIFICATE


NFRC Product Certificate of Authorization


intertek

U-value simulation

The U-value simulation shows amadeus' heat/cold cycle, which in combination with its glass and profile leads to a total value of Uw ≥ 0.68 W/(m²K), 0.12 Btu/(h.ft².F) which corresponds to the values of passive houses.

Element size

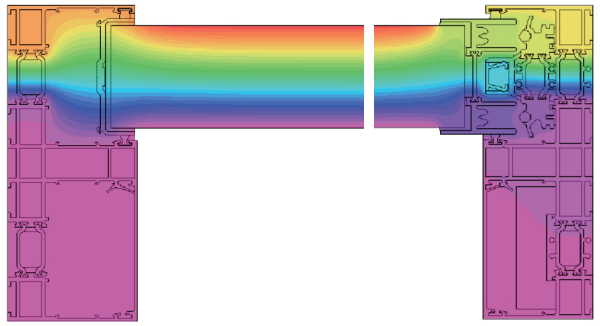
6000 x 2800 mm

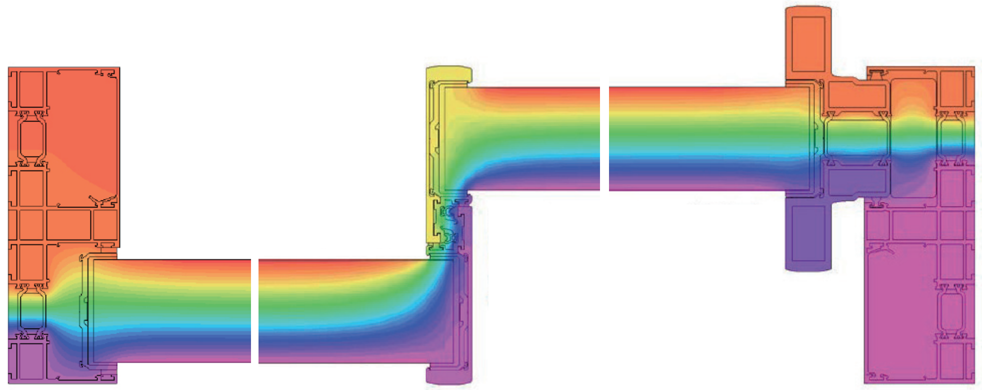
19.7 ft x 9.2 ft

Glass

Ug = 0.50 W/(m²K), 0.08 Btu/(h.ft².F)

Uw ≥ 0.68 W/(m²K), 0.12 Btu/(h.ft².F)





MY AMADEUS

We can achieve our goals.
Together.

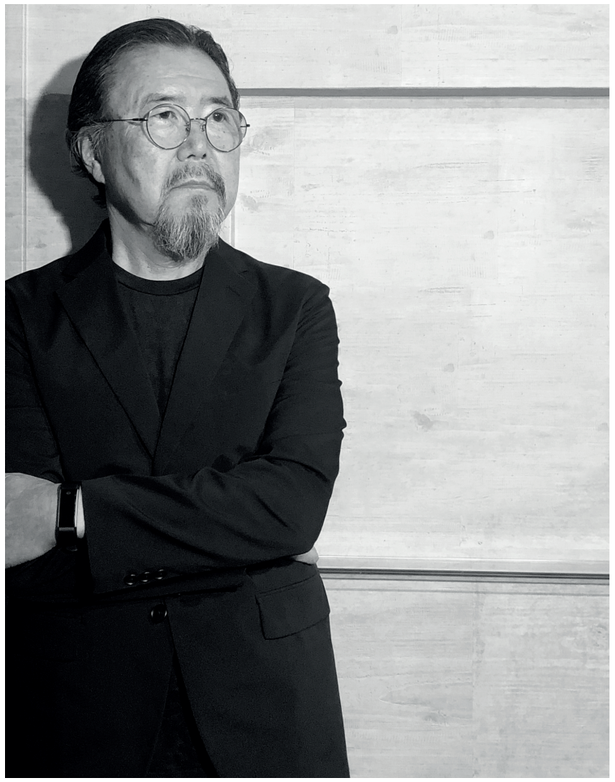
my
ama
deus

We have stable, long-lasting and continuous partnerships

You can rely on us. Trusting each other is the foundation for achieving our goals. Amari takes its time and consideration in order to fulfill your individual needs. The responsible team puts enthusiasm, commitment and know-how into every single project. Amari and amadeus – synonyms for stability and reliability.

Amari has created a know-how platform with my amadeus, allowing partners to build synergies. By way of networks and cooperations innovations are easily expedited. The platform provides a clear USP for amadeus partners.

www.amadeus.design



"I have been in the field of architectural design for 45 years. As a Japanese, my basic design approach is minimalism, which I combine with my experience in illumination design. The Japanese design approach is to unify the outside space with the internal space for it to become one with nature. amadeus makes it possible to enjoy the changes of external seasonal art pieces. To realize this approach, it is essential to remove any obstruction from the field of view."

YOICHI FURUKAWA
JIA, APEC REG. ARCHITECT, DESIGN DIRECTOR
NIKKEN SEKKEI LTD

AMARI HEADQUARTERS

amadeus

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to experience amadeus in augmented reality.

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metal innovations

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