

# venuro

# Venuro 3

EN

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The principle of architecture involves mastering the rules of construction and finding ways to defy them.

We strive to push ourselves to the limit of what is physically possible. With a carbon middle profile of just 16 mm, we have created a foundation for residential architecture that is both impressive and unique.

Large-scale sliding windows with extremely narrow profiles: to implement these contradictory ideas, a combination of high-performance fibreglass and carbon has been integrated into the sliding windows. These materials, which were initially established for the aerospace industry, provide exceptional durability and resilience while maintaining their lightweight properties. The 16 mm thick carbon middle profile forms the heart of the system and is integrated almost seamlessly into the design. Both fascinating and magical, the project and the surrounding nature merge to form a symbiosis of architectural perfection.

The outer frames, sash and vent profiles are made of continuous insulating material (composite material). Fibreglass profiles play an essential role in achieving excellent thermal insulation values and deliver outstanding thermal insulation performance. This high-performance fibreglass also impresses with its high strength and lightweight properties. Using this material can ensure a long service – a truly sustainable sliding system.

Face widths of the middle profiles  
16 mm made of carbon  
30 mm made of aluminium

$U_w$  value (5x3m,  $U_g=0.5\text{W/m}^2\text{K}$ ):  
 $\geq 0.71\text{ W/m}^2\text{K}$ , DIN EN ISO 10077  
 $\geq 0.59\text{ W/m}^2\text{K}$ , SIA 331

Rollers and roller surface made of  
stainless steel

Simple and secure drainage thanks to  
the specific geometry of the  
fibreglass profile

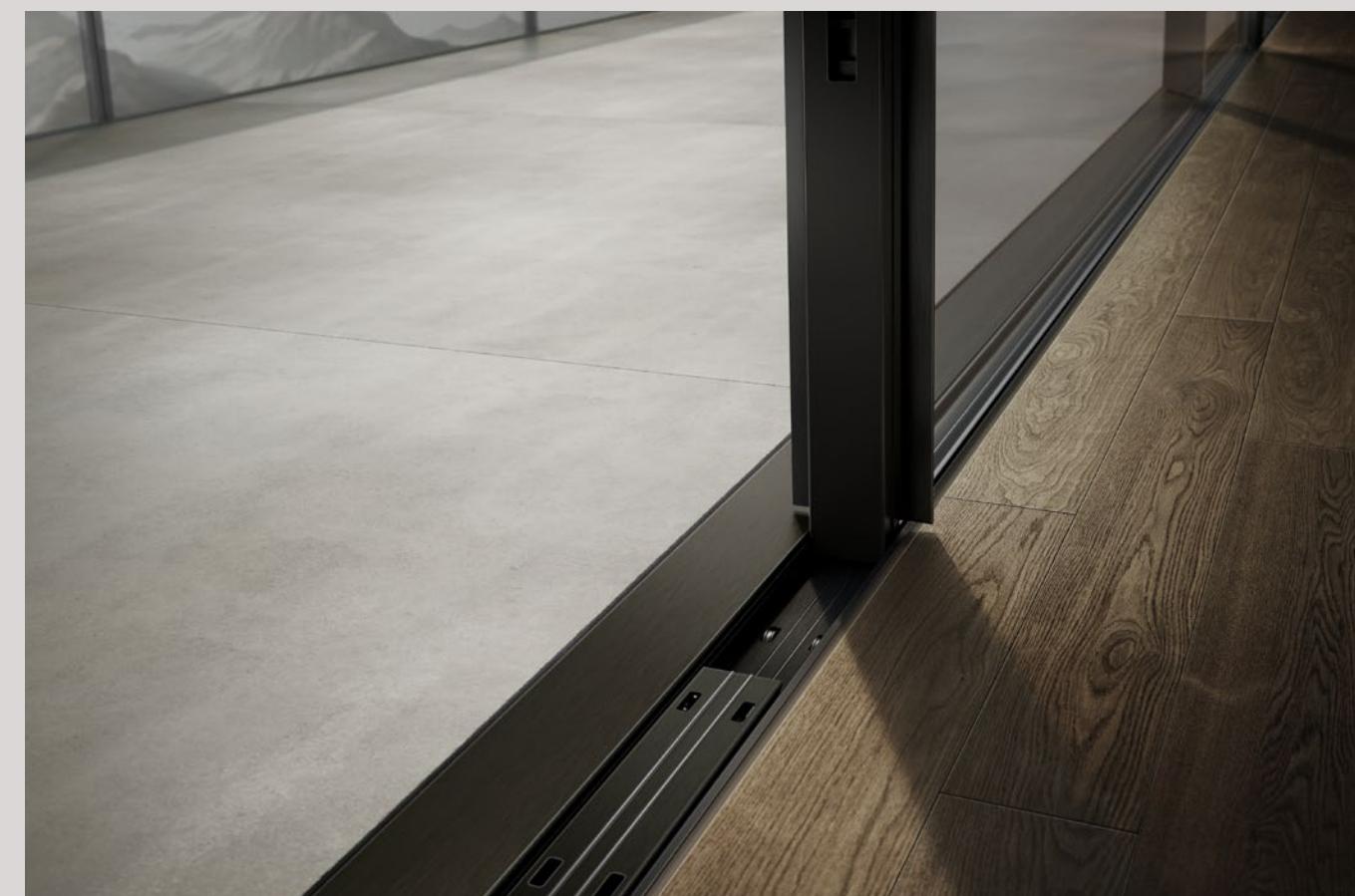
**The outer frames, sash and vent  
profiles are made of continuous  
insulation material:**

Improved seal integrity

Noise reduction due to minimal ma-  
terial expansion compared to alumi-  
nium

Reduced heat loss and lower  
heat absorption

Resistance to moisture and corrosion



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**U<sub>w</sub>-Value (5x3m, U<sub>g</sub>=0.5W/m²K):**  
≥0.71 W/m²K, DIN EN ISO 10077 | ≥0.59 W/m²K, SIA 331

**Watertightness:** up to class 9A, EN 12208

**Air permeability:** up to class 4, EN 12207

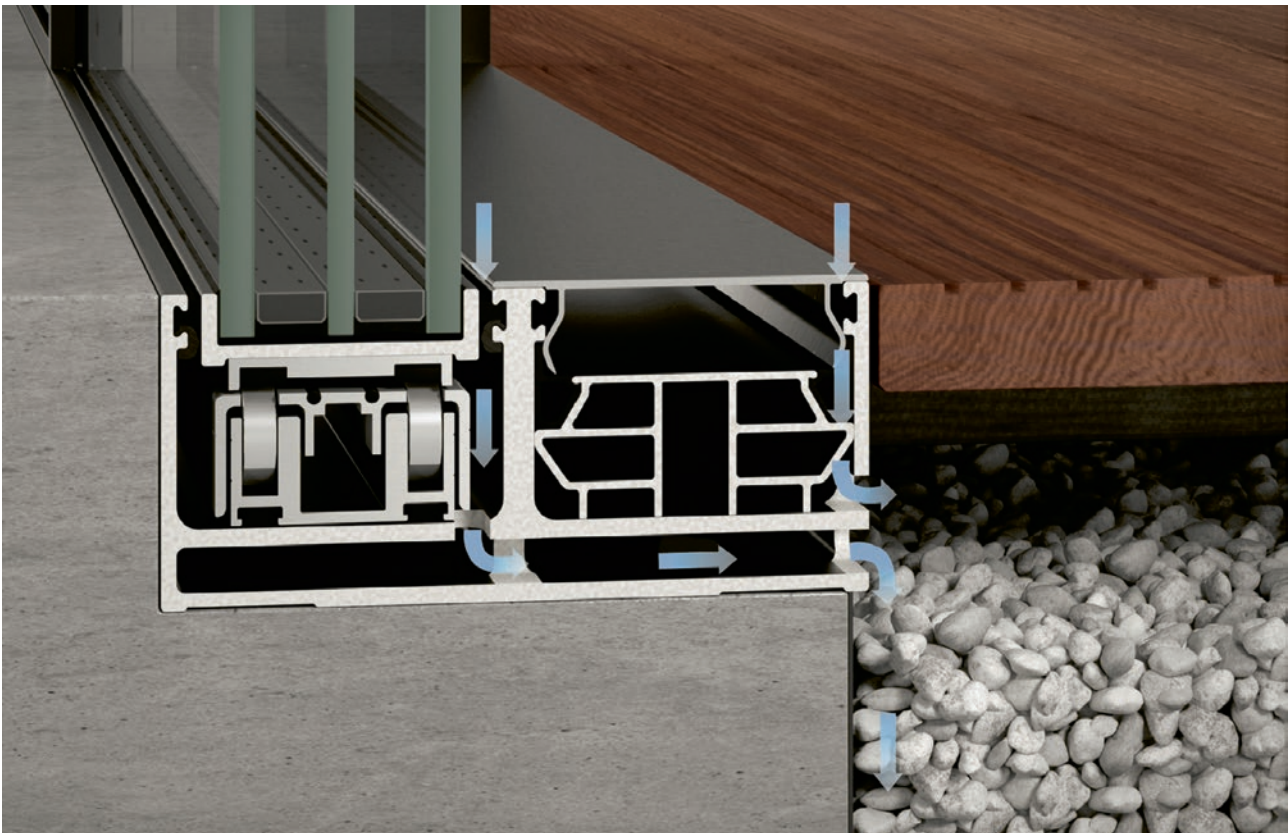
**Resistance to wind load:** up to class C4 | B4, EN 12210

**Sound reduction index:** up to 46 dB

Optional with an e-drive

Optional with a flyscreen

Optional with a dynamic threshold



Simple and secure drainage thanks to the specific geometry of the fibreglass profile.

## Facts

### Unit sizes

For triple glazing  
Fixed sash: up to 12 m²  
Sliding vent: up to 8 m²

Larger sizes available  
upon request

### Weight of sliding vent

Manual: up to 450 kg  
Motorised: up to 700 kg

Higher weights  
available upon request

### Glass thickness

46 – 52 mm

### Frame depth

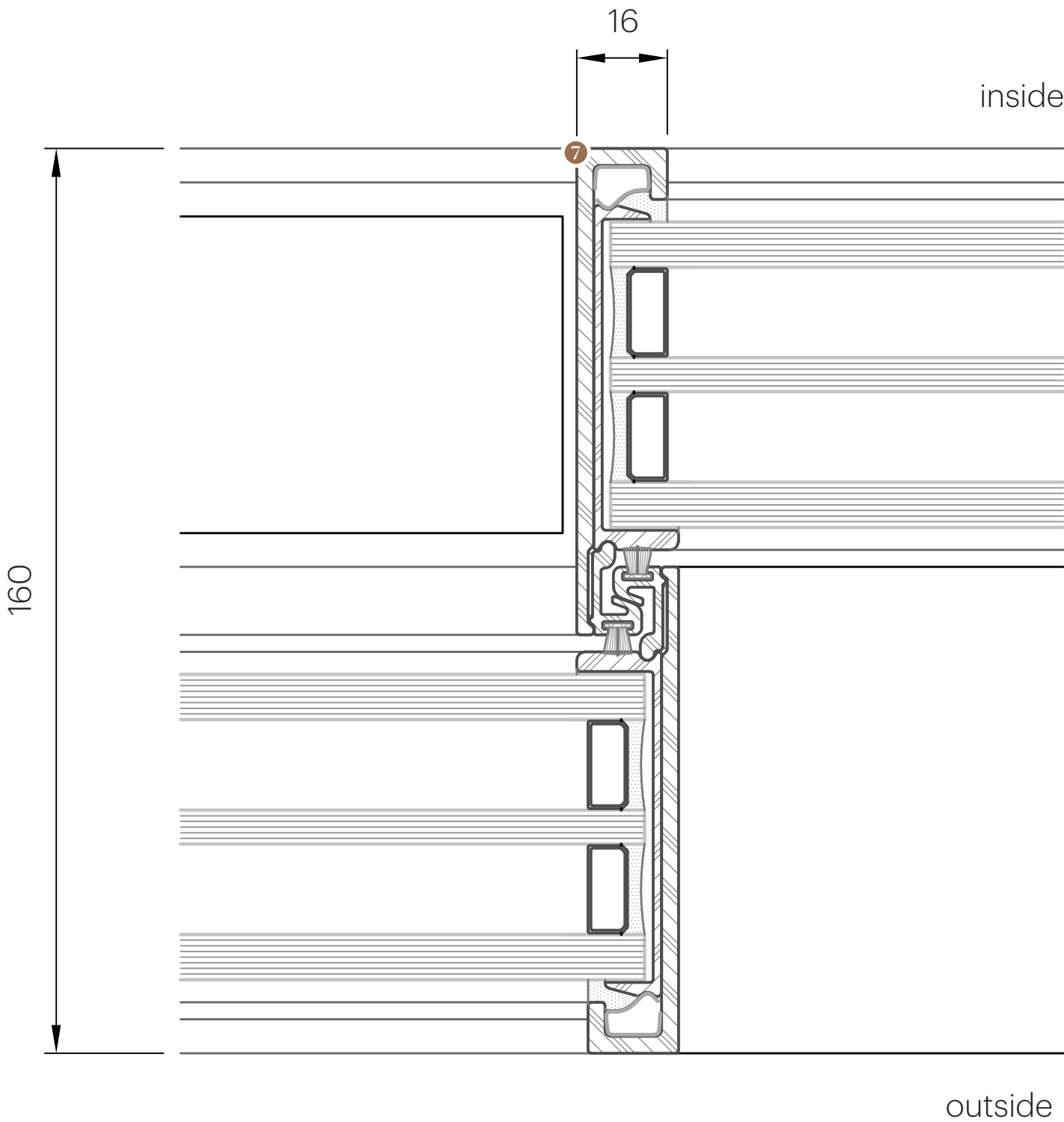
Single-track: 80 mm  
Double-track: 160 mm  
Triple-track: 240 mm  
Quadruple-track: 320 mm

### Frame height

70 mm

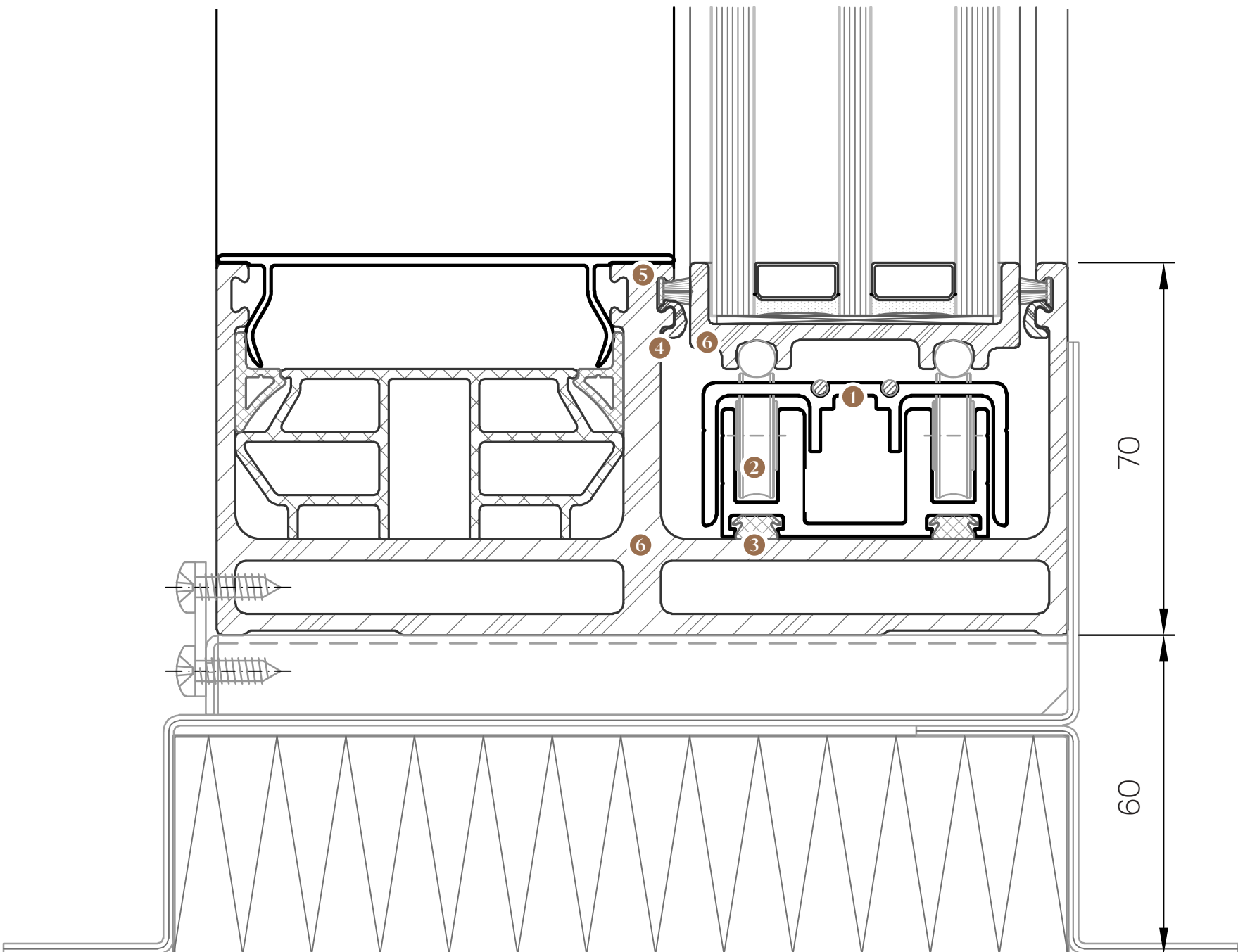
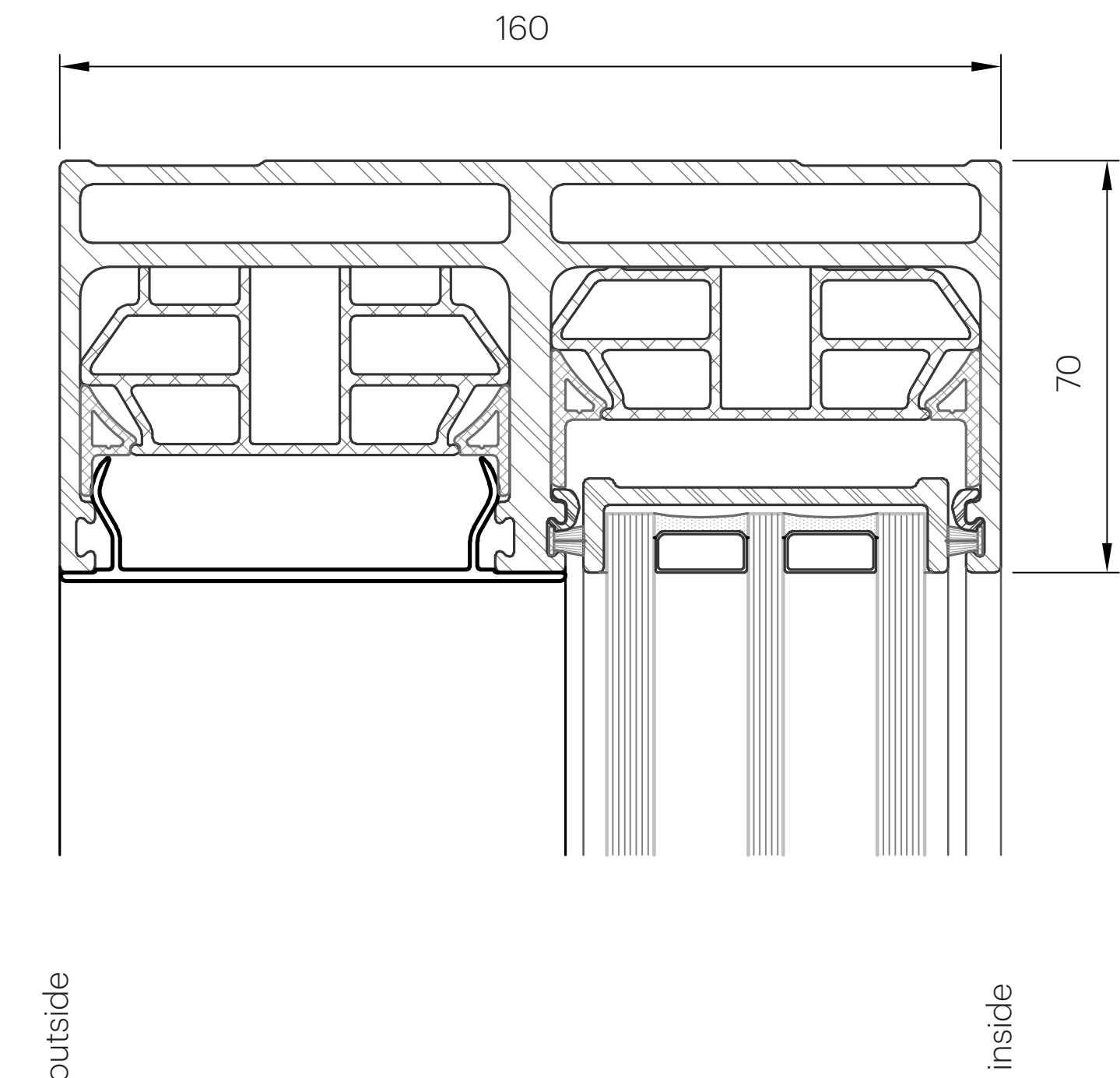
## Middle profile

16 mm



## Section through sliding vent

- 1 Dynamic threshold**  
Dropped dynamic threshold  
100% barrier-free
- 2 Robust runner fitting**  
Large-sized, closed stainless steel  
with high load capacity
- 3 Noise reduction**  
Insulating profiles for quiet and  
comfortable running
- 4 Straight profiles**  
Continuous, lateral buffer profiles.  
Increased joint tightness under wind  
loads
- 5 Brush sealing**  
Additional brush sealing  
complements the highly-insulating  
properties
- 6 Fibreglass profiles**  
Continuous composite material for  
maximum thermal insulation
- 7 Carbon profile**  
16 mm narrow  
extreme rigidity and high load-  
bearing capacity with low weight



Scale 1:1 in mm