

Glass Sliding System (Technical Information)

General Description

The **slim bottom profile sliding system** is a glass sliding solution designed for balconies, terraces, and commercial semi-open areas. Thanks to its **minimal bottom track height**, the system provides a clean appearance and improved walking comfort while operating with **8 mm tempered glass**.

Applications

- Balcony glazing systems
- Terrace and veranda enclosures
- Cafés, restaurants, and commercial spaces
- Semi-open architectural areas

System Type

- **Operating principle:** Bottom-hung sliding system
- **Bottom profile:** Slim aluminum load-bearing track
- **Top profile:** Guide and stabilizing profile
- **Thermal performance:** Non-thermally broken (cold system)

Glass Specifications

- **Glass thickness:** 8 mm tempered glass
- **Glass standard:** EN 12150 / TS EN 12150
- **Glass options:**
 - Clear
 - Tinted (smoked)
 - Bronze

Aluminum Profile Specifications

- **Aluminum alloy:** EN AW 6063-T5 / T6
- **Profile wall thickness:** approx. 1.5 – 1.8 mm
- **Bottom track height:** approx. 10 – 15 mm (may vary by model)
- **Surface finishes:**
 - Anodized (natural, black, etc.)
 - Electrostatic powder coating (RAL colors)

Load Bearing & Roller System

- **Load transfer:** Through rollers running on the bottom track
- **Roller type:** Stainless steel or polyamide-coated rollers
- **Maximum panel weight:** approx. **70 – 80 kg (155 – 175 lbs) per panel**

- **Adjustment:** Height-adjustable roller mechanism

Track & Panel Configuration

- **Track options:** 2-track / 3-track / 4-track (project dependent)
- **Number of panels:** 2 – 6 panels
- **Opening options:** Left stack / Right stack / Center opening

Sealing & Performance

- **Seal type:** Brush seals
- **Air & dust resistance:** Moderate
- **Water tightness:** Limited – water ingress may occur under heavy rain and wind

Maximum Panel Dimensions

- **Maximum panel width:** approx. 900 – 1000 mm (35" – 39")
- **Maximum panel height:** approx. 2500 mm (98")

Final panel sizes depend on glass weight, wind load, and installation conditions.

Hardware & Accessories

- Glass-to-glass locking options
- Surface-mounted handles
- Panel stoppers
- Child safety lock (optional)

Installation Notes

- The bottom track must be installed perfectly level.
- Proper slope and drainage at the bottom profile are recommended.
- Additional protection is advised for fully exposed façades.

Standards & References

- Tempered glass: EN 12150
- Aluminum profiles: EN 573 / EN 12020

Important Notes

- This system is **not thermally insulated**.
 - Performance is limited in areas with strong wind and heavy rain exposure.
 - Intended for balcony glazing and similar applications; not a curtain wall system.
-