

Lux Glazing System – Top-Hung

Technical Data Sheet

General Description

The **Lux Glazing System - Top-Hung** is a frameless sliding glass system where the entire panel load is carried by the **upper track**, allowing a **threshold-free and barrier-free floor transition**. The system is designed for modern architectural applications prioritizing transparency and minimal visual interruption.

Applications

- Balcony and terrace enclosures
- Cafés and restaurants
- Hotels and residential projects
- Interior glass partition systems

System Type

- **Load-bearing principle:** Top-hung (weight carried by upper structure)
- **Bottom section:** Guide profile only (non-load-bearing)
- **Thermal performance:** Non-thermally broken (cold system)
- **Operation:** Manual sliding

Glass Specifications

- **Glass thickness:** 10 mm tempered glass (standard)
- **Glass options:**
 - Clear
 - Tinted (smoked / bronze)
 - Laminated glass (optional)
- **Glass standard:** EN 12150 / equivalent tempered safety glass

Aluminum Profile Specifications

- **Aluminum alloy:** EN AW 6063-T5 / T6
- **Profile wall thickness:** 1.8 – 2.0 mm
- **Surface finishes:**
 - Anodized (natural, black, custom options)
 - Electrostatic powder coating (RAL colors)

Hanging & Roller Mechanism

- **Suspension system:** Adjustable top-hung carriage
- **Roller type:** Stainless steel housing, double bearing rollers
- **Maximum panel weight:** up to **120 kg (≈ 265 lbs) per panel**
- **Adjustment:** Vertical height adjustment for precise alignment

Track & Guide System

- **Top track:** Structural aluminum load-bearing profile
- **Bottom guide:** Slim aluminum guide profile (surface-mounted or recessed)
- **Floor transition:** Threshold-free / accessible design

Sealing & Comfort Performance

- **Seal system:** EPDM gaskets + brush seals
- **Air & dust resistance:** Moderate
- **Water tightness:** Limited – system is not designed as a fully watertight façade

Panel Size Limits

- **Maximum panel width:** approx. **1000 – 1100 mm (39" – 43")**
- **Maximum panel height:** approx. **2600 mm (102")**
- **Number of panels:** 2 – 5 panels (project dependent)

Final dimensions depend on glass weight, opening width, wind load, and structural conditions.

Hardware & Accessories

- Glass-to-glass locking options
- Flush or surface-mounted handles

Installation Notes

- The upper supporting structure must be **structurally adequate** to carry panel loads.
- Concrete or steel anchoring is recommended.
- Additional steel reinforcement is required for gypsum board or weak substrates.

Standards & References

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

Important Notes

- This system is **not thermally insulated**.
- Not suitable for high wind load or fully exposed façades without additional protection.

This technical document is for general reference only. Final specifications may vary depending on project conditions and engineering approval.