

## DOUBLE GLAZING SYSTEM

### General Description

Double glazing system is a multi-panel aluminum sliding door/window system designed for balconies, terraces, and interior partition applications. It features heavy-duty rollers and a modular track design suitable for wide openings.

System classification: Non-thermally broken (cold system)

### Applications

- Balcony enclosures
- Terrace openings
- Interior sliding partitions
- Commercial and residential projects (non-energy-rated applicatio

### System Configuration

- Panel quantity: 2 to 6 panels (project dependent)
- Opening options:
  - Left stack
  - Right stack
  - Center opening
- Track options: 2-track / 3-track / 4-track

### Aluminum Profiles

- Aluminum alloy: EN AW 6063-T5 / T6 (equivalent to ASTM 6063)
- Wall thickness: 1.6 – 2.0 mm ( $\approx$  0.063" – 0.079")
- Finish options:
  - Clear or black anodized
  - Electrostatic powder coating (RAL colors, custom colors available)

### Glass Specifications

- Glass thickness: 8 mm – 10 mm ( $\approx$  5/16" – 3/8")
- Glass type: Clear tempered glass (standard) / Tinted (gray / bronze) / Laminated glass (optional)
- Glass installation: Dry-glazed with EPDM gaskets / brush seals

### Roller & Load Capacity

- Roller type: Stainless steel housing, double bearing rollers
- Maximum panel weight: up to 120 kg ( $\approx$  265 lbs) per panel
- Roller adjustment: Vertical height adjustment for fine alignment

### Track & Threshold

- Bottom track material: Extruded aluminum with stainless steel reinforcement
- Minimum exposed threshold height: approx. 12 mm ( $\approx$  1/2") without recessed installation
- Drainage: Integrated water drainage channels

### Sealing & Performance

- Seals: EPDM gaskets and polypropylene brush seals
- Air / dust resistance: Moderate
- Water resistance: Limited (not rated as a watertight or hurricane system)

### Maximum Panel Dimensions

- Maximum panel width: approx. 1200 mm ( $\approx$  47")
- Maximum panel height: approx. 2600 mm ( $\approx$  102")
- Final dimensions depend on glass thickness, wind load, and project conditions.

### Hardware Options

- Flush or surface-mounted handles
- Locking or non-locking latch options

### Standards & References

- Aluminum profiles: ASTM B221 / EN 12020
- Glass (when specified): ANSI Z97.1, CPSC 16 CFR 1201
- Manufacturing tolerance: EN standards (available upon request)

### Important Notes for US Market

- This system is not thermally broken and does not meet energy code requirements (IECC) for exterior conditioned spaces.
- Not hurricane / impact rated.
- Suitable for mild climate zones, interior use, or non-conditioned exterior spaces.
- For projects requiring NFRC, AAMA, or Miami-Dade approvals, alternative systems should be considered.