

# Recessed Smart Floor Access Door



## Core Attributes

With a recessed design flush with the ground, the door leaves no protrusions or depressions when closed, seamlessly integrating into the surrounding environment. It balances unobstructed passage, aesthetic appeal, and convenient maintenance access.

## Applications

Indoor and outdoor scenarios including building mezzanines, underground facility passages, and equipment access openings. It is ideal for locations requiring high floor flatness, such as schools, commercial buildings, and industrial plants.

## Key Functional Highlights

- **Concealed Fit:** Flush with the ground when closed for unobstructed passage and seamless aesthetics. The recessed structure adapts to various floor materials (concrete, tile, stone) and incorporates a water-proof design.
- **Servo-Grade Drive:** Driven by servo motor and electric cylinder for smooth, jitter-free operation. Positioning accuracy reaches  $\pm 0.1\text{mm}$ , with opening/closing noise  $\leq 45\text{dB}$ .
- **Full-Range Safety Protection:** Door panel and guardrail are equipped with anti-pinch stop sensors, enabling emergency stop within 0.5 seconds upon encountering obstacles. An anti-misstep lock function prevents accidental triggering when closed.
- **Multi-Scenario Control:** Supports outdoor remote opening (effective distance  $\geq 50\text{m}$ ). Standard equipped with a power-outage emergency mechanical opening device for worry-free use in extreme conditions.
- **Heavy-Duty Durability:** Constructed with an SUS304 stainless steel body. Standard load-bearing rating: A15, maximum optional rating: C250.

Standard Selection Table

| Model & Specification<br>(W×L/mm) | Material Options           | Load-Bearing<br>Rating | Opening Type                  | Drive Configuration                         |
|-----------------------------------|----------------------------|------------------------|-------------------------------|---------------------------------------------|
| 600×1500 (Max.)                   | SUS304                     | A15                    | Single Leaf<br>Upward Opening | Servo Electric Cylinder<br>+ Remote Control |
| 800×2000 (Max.)                   | SUS304                     | A15                    | Single Leaf<br>Upward Opening | Servo Electric Cylinder<br>+ Remote Control |
| 1000×2500 (Max.)                  | SUS304                     | A15                    | Single Leaf<br>Upward Opening | Servo Electric Cylinder<br>+ Remote Control |
| 1200×3000 (Max.)                  | SUS304                     | A15                    | Single Leaf<br>Upward Opening | Servo Electric Cylinder<br>+ Remote Control |
| 1400×4000 (Max.)                  | SUS304                     | A15                    | Single Leaf<br>Upward Opening | Servo Electric Cylinder<br>+ Remote Control |
| 1600×4000 (Max.)                  | SUS304                     | A15                    | Single Leaf<br>Upward Opening | Servo Electric Cylinder<br>+ Remote Control |
| Custom Sizes                      | All materials<br>available | Max. C250              | Custom Opening                | Custom Drive Solutions                      |

Supply & Services

- Scope of Supply: Includes flush door frame, servo electric cylinder, anti-pinch sensor, remote control device, emergency opening assembly, and floor adaptation seals.
- Installation: Provides on-site guidance for recessed floor installation to ensure flush alignment accuracy.
- Waterproofing: Performs perimeter floor waterproofing construction to prevent rainwater leakage.
- Warranty: 2-year warranty for the main body and drive system; 1-year warranty for wearing parts.

