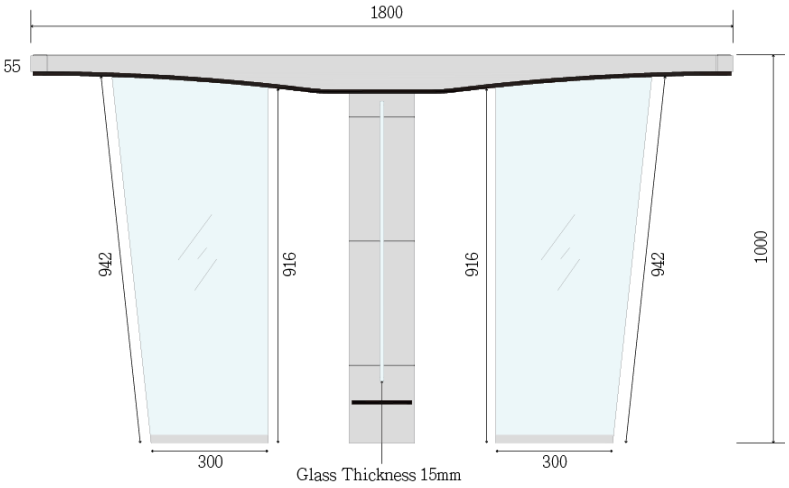
T1 AéroWing Gate Specification
Manufacturer - Matrix Research Limited
Product Brand - ACX

Design, Throughput, Dependability

Design

1. This AéroWing Gate (the Gate) is in T-shaped, with the two glasses on the sides in trapezoid
2. The Gate's material (SUS#316 or others), appearance (colour spray or electroplating) length, surface (wiredrawing/glossy/matte), obstacle (length, height, printed pattern), card area, installation (flooring panels) are customizable



3. Standard unit size: 1800mm (L) x 180mm (W) x 1000mm (H). The overall thickness of the turnstile's top cover is 55mm, with the max. thickness of 100mm in the center of the top cover
4. Standard dimensions: 720mm door wing height, 600mm / 900mm passage width (two obstacle wings made of 8mm tempered glass)

Throughput

5. The Gate is set with 9 kinds of dual-direction control modes (alternative), while providing real-time status monitoring with its 8 pairs of OMRON sensors (standard)
6. Capacity (per minute per direction): more than 25 people in the normally closed position (open position as an alternative)
7. Operating speed time is 0.8-1.6s (customizable)
8. Door opening: 90° to the middle; movement angle: 166°

Dependability

9. Lifespan: over 15M times; Mean Cycles Between Failures (MCBF): over 30M times

Safety

10. The Gate is equipped with a 2D Laser Module (99% detection accuracy, higher compared with IR). This Laser Module is a ground-level safety sensor ensuring child-friendly passage
11. Laser safety class: Class 1 (IEC 60825-1:2014), which means it is safe for human eyes
12. The Low Noise Operation guarantees an average sound level of under 60db, which will not cause hearing damage
13. The Gate has a standard external electrical interface, with photoelectric safety isolation.
14. Advanced protection to prevent electrical leakage, pinching, and collision is also put in the Gate

15. Lock disengages in case of a power outage (fail-safe operation)

Technology (Access Control)

16. The Gate can be integrated with the Lift Destination Control System and Building Visitor Management System
17. The Gate supports a temperature check and a multi-technology reader. The reader can be set by users to handle different access conditions, including human biometric technologies (Facial Recognition and Palm Vein Recognition), Mobile Scramble/Fixed QR Code, Contactless Smart Card 13.56MHz, Octopus, Bluetooth, and NFC.
18. All the access devices shall be installed under the glass top cover of the turnstile, excluding the temperature sensor detector
19. If the body temperature device is to be installed on top of the turnstile's top cover, the max. dimensions cannot exceed 120mm (L) x 80mm (W) x 75mm (H)
20. If the facial camera is to be installed on top of the turnstile's top cover, the max. dimensions cannot exceed 110mm (L) x 70mm (W) x 40mm (H)
21. The facial recognition algorithm shall be Face++
22. The Palm Vein recognition technology shall be Fujitsu PalmSecure-F Pro technology
23. The Gate's scanning ranges from 60cm to 180cm. It also caters to wheelchair users and people with luggage or trolley.
24. The devices are installed on the Gate top surface area, with LED lights to indicate access status and passage direction.
25. It has an enhanced anti-tailgating (also known as anti-passback) design, preventing multiple people passing the Gate at the same time
26. The Gate is installed with a 5.5" LCD to display the system message, the access granted and access denied message, and the destinated lift number (if the Gate is integrated with the Lift Destination Control System)

Electrical & Environmental

27. Power supply: AC220V ±10% 50Hz; AC110V ±10% 60Hz (Optional)
28. Frequency: single phase 50Hz to 60Hz
29. Operating voltage: DC24V
30. Current: static 300mA; dynamic 3A (maximum operating current)
31. Operating temperature: 0°C / 32°F to 60°C / 140°F
32. Storage temperature: -20°C / -4°F to 60°C / 140°F
33. Relative humidity: 5% to 95% (non-condensing)