

# Airflow Panels & Controls

## GrateAire® Panels

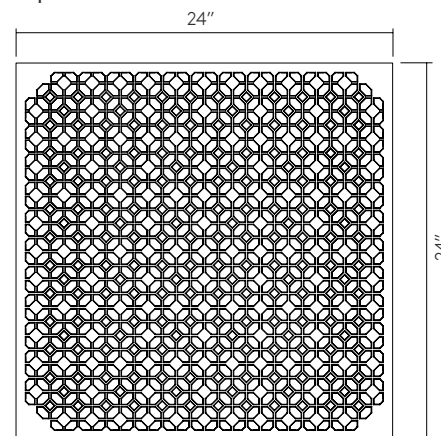
### Aisle Level Containment Vertical Airflow Panels

Tate's aluminum GrateAire® offers high volume airflow for physically contained aisles with high heat densities. With 56% open area the lightweight aluminum panel is ideal for areas that need high airflow and load capacity.



### Profile

#### Top View



#### Side View



### Key Performance Characteristics

- GrateAire® die-cast aluminum panels are compatible with any 24" or 60 cm bolted stringer systems
- Cools up to 16kw per rack in a contained aisle
- High rolling load capacity (1000 lbs / 800 lbs)
- Available with top surface adjustable damper
- Available with an unpainted textured surface or epoxy powder coatings
- Interchangeable with Tate's full line of laminated raised floor panels in a stringer system

### GrateAire® Load Performance Chart\*

Airflow Panel	Under-structure	System Weight (lbs/sqft)	Static Loads (lbs)			Rolling Loads (lbs)		Impact Load (lbs)	Capture Index* (%)	Open Area (%)
			Design Load	Safety Factor	Ultimate Load	10 Passes	10,000 Passes			
GrateAire	Bolted Stringer	6.25 (30 kg/m <sup>2</sup> )	1000 (4.4 kN)	Min. > 2	>2000 (8.9 kN)	1000 (4.4 kN)	800 (3.6 kN)	100 (45 kg)	50	56

All tests are performed using CISCA's Recommended Test Procedures for Access Floors with the exception of Design Load.

1. System Design Load is based on permanent set  $\leq 0.010"$  and is verified by loading panels in accordance with the CISCA concentrated load method but with panels installed on actual understructure instead of steel blocks. (Testing on blocks does not represent performance of an actual installation.) Ultimate, Rolling, and Impact Load tests are performed using CISCA Test Procedures.

2. Safety Factor is Ultimate Load divided by Design Load.