

Tate Access Floors, Inc.
DirectAire™ In-floor Cooling Device

SECTION 09 69 00
ACCESS FLOORING

Part 2 – Products

Section 2.3 Panel Components

1. Directional Airflow Panels: Welded steel design for static and rolling loads shall be interchangeable with standard field panels. Directional airflow panels shall have 68% open area with the following air distribution capability without a damper: 2594 CFM at 0.1-inch of H₂O (static pressure). The panel shall be equipped with directional vanes equipped with pressure equalizing perforation for even flow and also produces an angular air flow across the entire face of a typical 78” high IT rack, providing a rack Total Air Capture (TAC) index of 93%.
2. Directional airflow panels shall have the following load bearing capacities, and shall be installed with all four perimeter edges fully supported on a steel roll formed stringer:
 - a) Design Load: Directional airflow panel supported on actual understructure shall be capable of supporting a safe working or design load of 2500 lbs. placed on a one square inch area, using a round or square indenter, at any location on the panel without yielding.
 - b) Safety Factor: Directional airflow panel supported on actual understructure shall be capable of withstanding a minimum of (2) two times the design load anywhere on the panel without failure. Failure is defined as the point at which the system will no longer accept the load.
 - c) Rolling Load: Directional airflow panel supported on actual understructure shall be capable of withstanding the following rolling loads at any location on the panel without developing a local and overall surface deformation greater than 0.040 inches. Note: wheel 1 and wheel 2 tests shall be performed on two separate panels.

Wheel 1: 3” dia x 1 13/16” wide	Load: 2000 lbs.	Passes: 10
Wheel 2: 10” dia x 4” wide	Load: 2000 lbs.	Passes: 10,000

4. Impact Load: Directional airflow panel supported on actual understructure shall be capable of supporting an impact load of 200 lbs. dropped from a height of 36 inches onto a one square inch area, using a round or square indenter, at any location on the panel.