

# Matrix™ 401, 402, 403 Raised Access Flooring Panels

November 19, 1997



## DAW TECH

**The Matrix™ 401, 402 and 403 Standard Duty Floor Panels are Daw Tech products designed specifically for the stringent requirements of cleanroom applications.**

### OVERVIEW:

The Matrix™ 401, 402 and 403 are 24" square floor panels fabricated using high strength, die-cast aluminum. The accompanying sub-floor structures are designed to meet high structural loads, and provide lateral stability, seismic qualifications and electrical resistivity.

The 401 are solid access floor panels used primarily in areas adjacent to the cleanroom that do not require airflow but must be clean and static free. Available in various vinyls, powder coat finishes and stainless steel floor surfaces.

The 402 are perforated access floor panels available in various perforated hole patterns up to 22% open area. Dampers are available for additional airflow control. The 402 are available in various vinyls, powder coat finishes and stainless steel floor surfaces.

The 403 are grate access floor panels designed to minimize air pressure drop having approximately 59.2% net free area. Dampers are available for additional airflow control. The 403 have a non-directional pattern that simplifies installation and provides smooth travel for rolling carts. Grate panels are coated with a proprietary conductive powder coat epoxy.

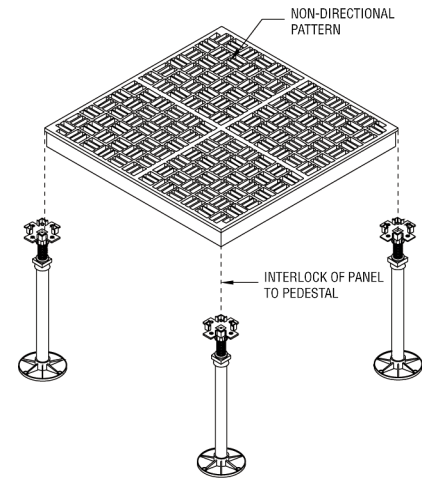
Special panels for utility access, valve boxes, vacuum ports, etc. are also available in 401, 402 and 403 floor panels.

### CHARACTERISTICS:

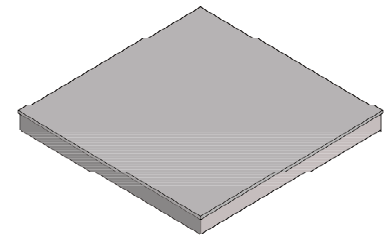
- > Available in both imperial (24" x 24") and metric sizes (600 mm x 600 mm)
- > Maximum weight of 401 and 402 (solid and perforated) without floor covering 21 lbs. (11.4 kg)
- > Maximum weight of 403 (grate) 21 lbs. (11.4 kg)
- > Quality machined tolerance:  $\pm .0025"$  (.06mm) overall length and width;  $+.030"/-.015"$  ( $+.76\text{mm}/-.38\text{mm}$ ) overall thickness;  $+.030"/-.015"$  ( $+.76\text{mm}/-.38\text{mm}$ ) overall flatness;  $\pm .010$  ( $\pm .25\text{mm}$ ) overall square measured diagonally.

### FEATURES & BENEFITS:

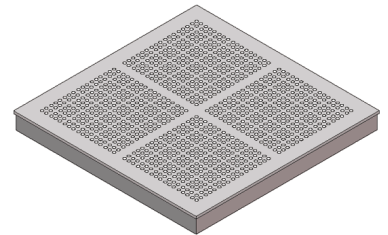
- > Floor panels, when in place and functioning as a part of the complete floor system, are capable of supporting a concentrated load of 1,200 lbs. on a one inch square (544 kg/ 6.5 sq. cm), with a maximum deflection of .080" (2mm).
- > Panels are capable of carrying a uniform live load of 350 lbs. per square foot (158 kg/ .09 sq.m) with a maximum deflection of .040" (1mm).
- > The maximum permanent set at design loads shall not exceed .010" (.25mm).
- > Corner lock screw option available
- > Slide or opposed blade dampers available
- > Panels are available in a variety of coverings including chemically resistant conductive or static-dissipative vinyl, baked-on powder coat epoxy and stainless steel.
- > Process piping bulkheading plates available
- > 4" x 4" (100mm x 100mm) or 8" x 8" (200mm x 200mm) Electrical/Vacuum port inserts
- > 15" x 15" (375mm x 375mm) or 19" x 19" (475mm x 475mm) valve access panel
- > Maximum web depth 2" (50mm)
- > High strength aluminum 380 alloy
- > Structural webs at 4" x 4" (100mm x 100mm) o.c.
- > Lightweight panels meet OSHA recommended maximum one-man weight lift load of 35 lbs.



24" MATRIX™ GRATE WITH 57.4% OPEN AREA



24" MATRIX™ SOLID PANEL



24" MATRIX™ PERFORATED PANEL