

# Matrix™ 407 & 408 Raised Access Flooring Panels

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DAW TECH

**The Matrix™ 407 and 408 Heavy Duty Extruded Floor Panels are new Daw Tech products designed specifically for the heavier loading requirements of 300mm fab applications.**

## OVERVIEW:

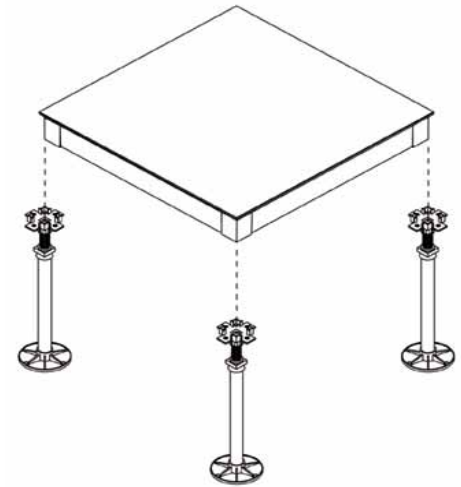
The Matrix™ 407 and 408 are heavy duty raised access floor panels made of aluminum extrusions that provide a 3,000 lb load rating. This unique application of extruded aluminum eliminates the sudden failures that have occurred with die-cast aluminum floor panels having inherent "brittle metal" failure characteristics. This series of floor panels are designed specifically for areas where high floor loads due to move-in of 300 mm fab equipment is required.

The Matrix™ 407 and 408 are 24" square floor panels fabricated from high strength, ductile aluminum. This heavy-duty floor system when installed using Daw's heavy-duty pedestals permit air-pad loads of up to 8,000 lbs on a 24-inch diameter bearing with a minimal thickness floor covering.

The 407 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 408 are perforated access floor panels available in various perforated hole patterns up to 20% open area. Dampers are available for additional airflow control. The 408 are available in various vinyls, powder coat finishes and stainless steel floor surfaces.

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

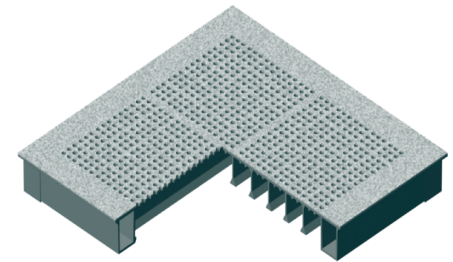


## CHARACTERISTICS:

- > Available in both imperial (24" x 24") and metric sizes (600 mm x 600 mm).
- > The weight of these heavy-duty panels without floor covering is nominally 30 lbs.

## FEATURES:

- > Deflection under a 3,000 lb two-inch square indenter per CISCA test procedures is 0.080 inches or less. See attached CISCA test deflection curves.
- > Matches the corner height of 2" standard duty and medium duty panels
- > Corner lock screw option is 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.
- > Slide dampers are available for airflow equalization.
- > Process piping bulkheading plates available.
- > 15" x 15" (375mm x 375mm) or 19" x 19" (475mm x 475mm) valve access panels available.
- > 4" x 4" (100mm x 100mm) or 8" x 8" (200mm x 200mm) Electrical/Vacuum port inserts available.



## BENEFITS:

- > The ductile extruded aluminum will not have catastrophic cracking failures characteristic of die-cast aluminum panels but instead will develop plastic hinge effects that allow the panel to "bend but not break".
- > Design ultimate loads of 6,000 lbs using the 1 in square CISCA indenter in most places on the panels will not cause yielding. Using a normal minimum footpad of 4 inch square in the center of the panel allows 6,000 lbs without yielding.
- > The panel is much less susceptible to impact loading failures.
- > Extruded aluminum construction offers the benefit of putting the material where it is most needed, i.e. using I-beam design features