

Matrix™ 450 Move-in Planks

February 2003

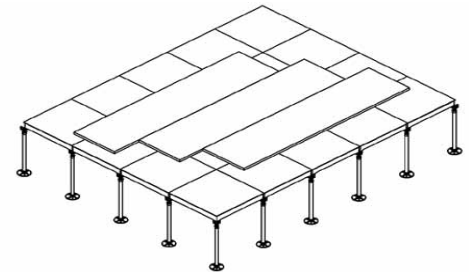


DAW TECH

The Matrix™ 450 Plank system (patents pending) is a new Daw product specifically designed to facilitate move-in of large pieces of process equipment across raised access flooring.

OVERVIEW:

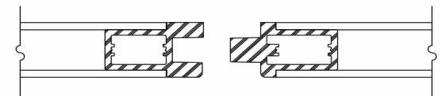
The Matrix™ 450 Move-in Planks are aluminum panels used to overlay existing raised access floor systems to evenly distribute the loads of heavy equipment during tool move-in. Particularly older floor systems that were not designed for move-in of heavy process tools. The Planks' innovative design simplifies move-in of large pieces of process equipment by simplifying the creation of the move-in path that has traditionally been achieved using common sheet aluminum or steel. A unique tongue and groove edge profile permits adjacent Planks to interlock between joints and uniformly transfer the load from one Plank to the next. The Planks have the added stiffness needed to uniformly distribute the load of heavy equipment when using either casters or air-bearings. This is important as the load moves over the joint, both from a load spreading consideration and to prevent excessive air-loss when employing air-bearings.



ISOMETRIC VIEW

The Planks are placed onto the access flooring and pushed together interlocking the tongue and groove edges creating a continuous move-in path. As the move-in load is applied it is evenly distributed across the floor having a portion of the load transferred to the pedestals. This increases the allowable move-in load that can be applied to older floor panels (i.e. 1,000 lb to 1,200 lb rated panels). The Planks can typically increase the move-in load capacity for a 1,000 lb rated panel to 2,500 lbs when using polyurethane casters and to 4,500 lbs when using 21" air-bearings. *Please note:*

These values are examples only, for specific application it is necessary to contact Daw Technologies.



JOINT DETAIL

The Matrix™ 450 Move-in Plank System is a series of 1" thick composite panels comprised of 1/8" inch aluminum skins, aluminum honeycomb core and extruded aluminum edge pieces. A typical 24 x 96 inch Plank weighs 68 lbs however it has the equivalent stiffness of a 172-pound, 1/2 inch thick solid aluminum plate. One or two installers can safely manipulate the Planks and the unique edge profiles make the Planks much easier to pick up when compared with common sheet stock. The Planks can be made in various sizes to fit your specific aisle needs. Triangular shapes are also available to provide an adequate move-in path at 90-degree corners. The Planks are available in mill finish aluminum, anodized aluminum and baked-on powder coat epoxy.

CHARACTERISTICS:

- > A typical 24 x 96 inch Plank weighs 68 lbs
- > Aluminum honeycomb panels.
- > Aluminum extrusion alloy: 6063, T5 Aluminum sheet stock alloy: 5052, H32.

FEATURES:

- > Custom sizes are available to fit your specific aisle needs.
- > Triangular panels are available for use at 90-degree pathway corners.
- > Planks are available in a variety of coatings including mill finish aluminum, anodized aluminum and baked-on powder coat epoxy.
- > Move-in Planks are packaged in Daw Technologies "Clean Packaging Area" prior to shipping

BENEFITS:

- > The unique tongue and groove edge profile eliminates the necessity of layering sheet stock along the move-in path joints to distribute the load of heavy equipment from one move-in panel to the next. Opposite edges of each Plank are tongue/groove profiles.
- > The unique tongue and groove edge profile permits safe and easy handling versus the need for suction cups, which are often required when moving common sheet stock.
- > Lightweight composite panel construction provides maximum stiffness with minimum weight.
- > The Planks are reusable and convenient to store.