

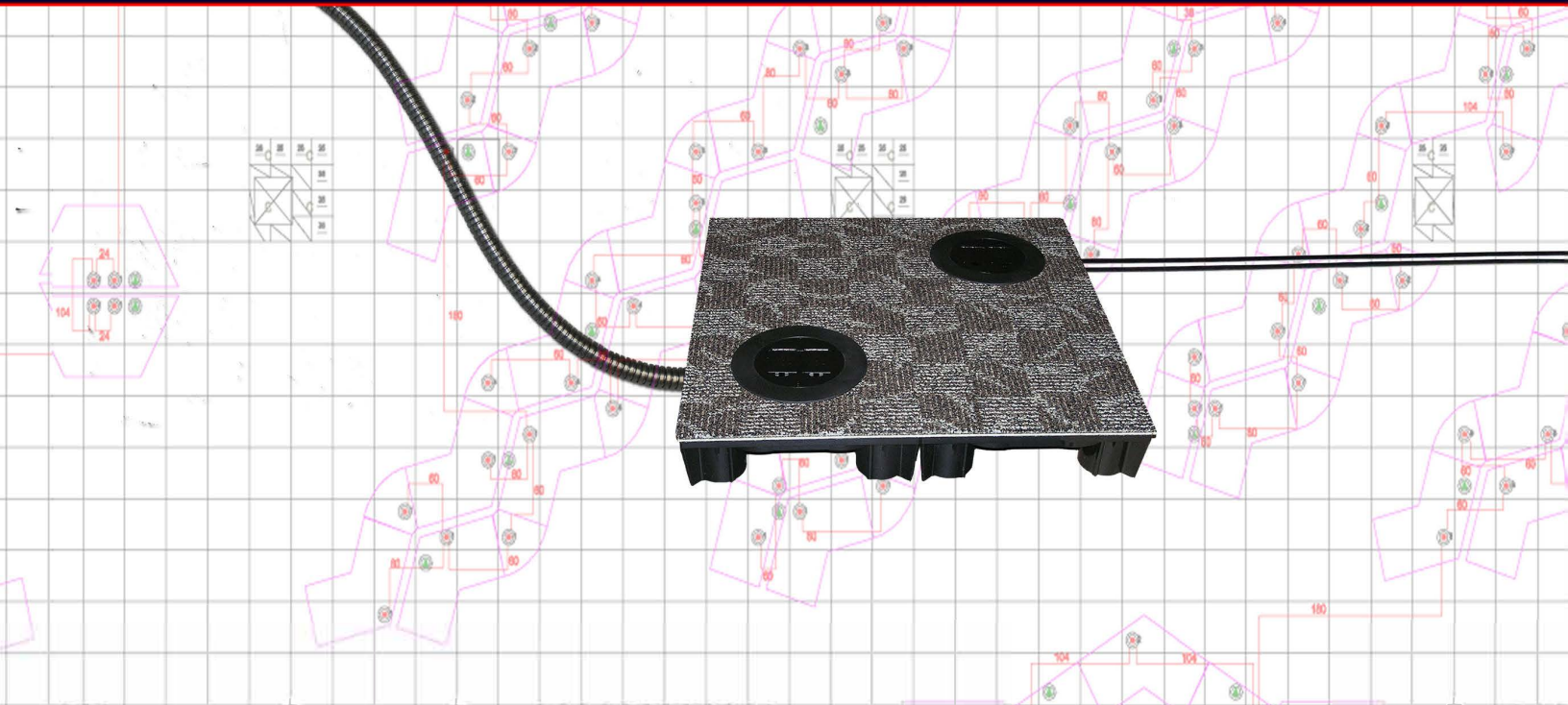
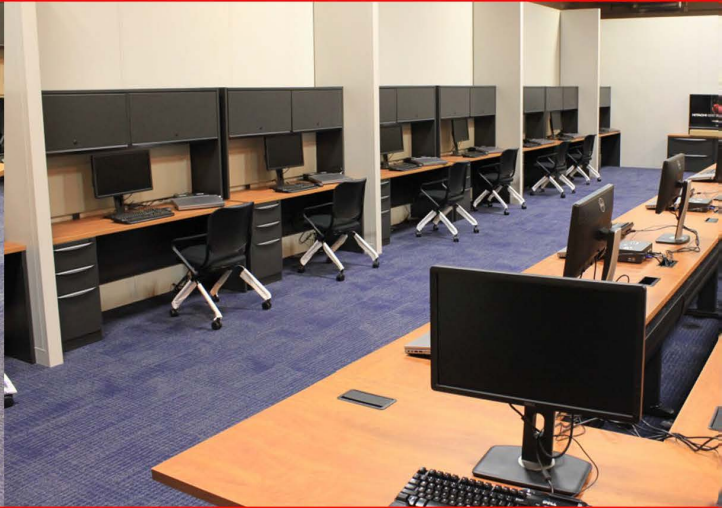
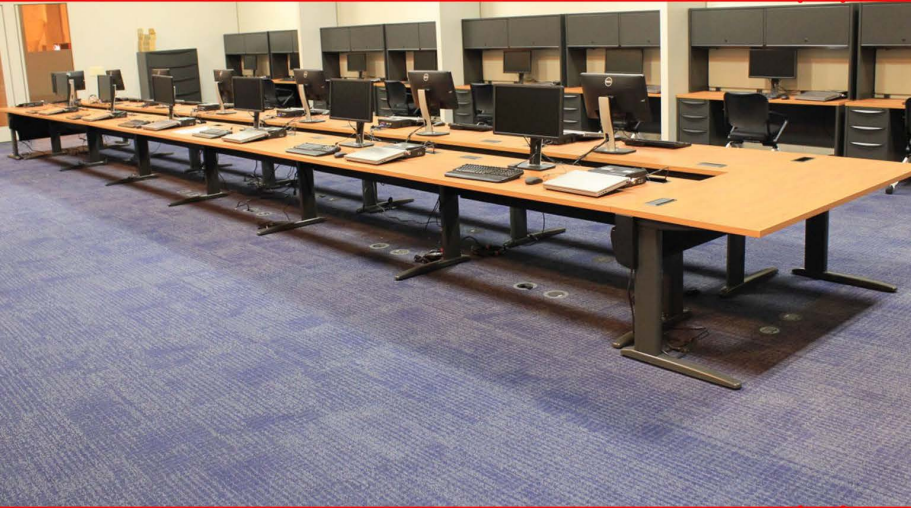
POWERFLOR USA,
INCORPORATED
CABLE MANAGEMENT SYSTEMS



CUSTOM PRODUCTS & SERVICES

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Our Concept is simple...
Provide a complete connectivity solution that meets all of your needs...



ADMINISTRATIVE AND OFFICES

With the rapid rate of technological advancement, today's office environs demand adaptability. By coupling our agile system with cubicles or de-mountable walls, space layout is readily reconfigurable.....Wherever you want... Anytime you want.



LIBRARIES & COMPUTER LABS

Powerflor's mobile connectivity can be key to solving furniture layout and traffic pattern challenges, in densely populated facilities.



COMPUTER CLASSROOMS

Classrooms still require the classic "Row on Row" configurations, but are enhanced when they can adapt to other possibilities. Technology drives changes in curriculum and methodology. Connectivity that can easily meet these options becomes an advantage.



...that can adapt to any new requirements.

EMERGENCY & RESPONSE CENTERS

Powerflor allows you to expand your connectivity wherever needed and allows you to accommodate extensive Voice, Data, and A/V componentry, which is common in an open, fast paced, 24 / 7 environment.



OFFSITE MONITORING SERVICE

A dedicated cable management system provides a serviceable alternative that addresses upgrades and service without disruptions.



FITNESS CENTERS

Enhancing the "cardio" experience, Powerflor offers the ultimate in user friendly connectivity. With fitness industry standards always on the rise, elliptical, treadmill, and cycle stations frequently include the best in Audio / Visual media. No fuss upgrades and operations; no boring workouts for clients, talk about fitness.



Our pre-manufactured floor panels, are lightweight, and very strong . . .

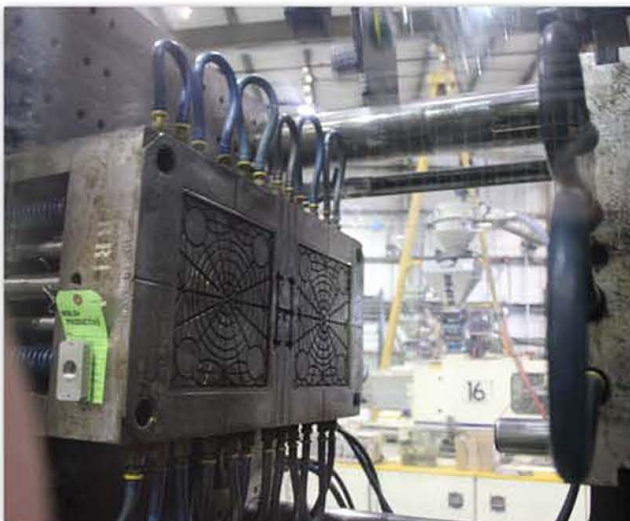


OUR PEDESTAL

Our cornerstone feature is a pedestal molded of lightweight, strength re-enforced polycarbonate resin. Designed and tested to meet the highest industry load bearing standards, this composite material is PVC free and 100% recyclable.

OUR ASSEMBLY

Four of our pedestals are factory assembled, comprising (quad section) panels which conform to a standard 50 cm square carpet tile. The pedestals are attached using a hot melt glue process that assures proper adhesion. Each panel weighs 8 lbs. while capable of supporting loads up to 50,000 lbs. per square foot.



...and are both re-usable and recyclable



OUR PANEL

The completed carpeted floor panel allows the four pedestals to hinge at both center cross-lines, allowing the panel to sit firmly without rocking. The conjoined quad sections create a stable platform, and can be provided with any 50 cm carpet tile of your choice.

OUR OUTLETS

Our universal outlet grommet is factory installed, in any combination of the four panel quadrants. This allows for integration of the correlating communication or electrical components per specification.

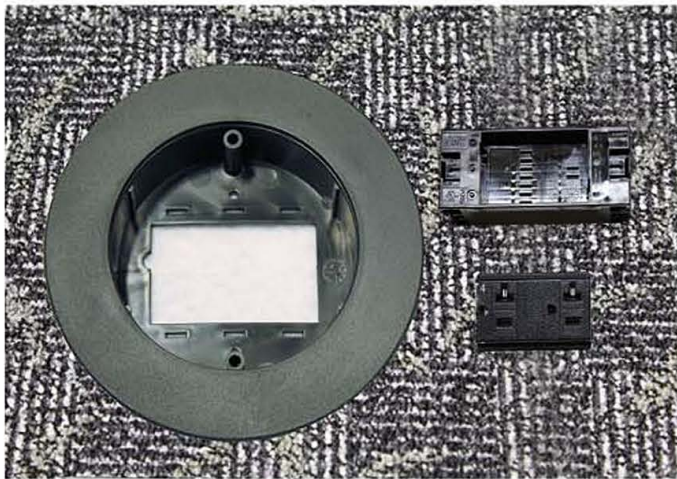


Our connectivity is integrated . . . electrical and communication components mount into any outlet grommet . .



ELECTRICAL POWER

Duplex outlets are powered by connecting our power input cable assembly to the building power source (shown on top of the image). The outlets are connected to each other using our double - ended cable assembly, creating plug & play power connections. The system provides four, 20 ampere circuits, per input cable connection.



OUTLET COMPONENTS

Our pre-manufactured electrical system includes outlet bases and duplex outlet inserts. Each insert identifies the circuit that it will utilize. Changes to circuit loads or changes to outlet location can be accomplished with the system plug connections.



FINISHED OUTLETS

The finished electrical outlet is recessed into the floor surface using our universal outlet grommet. This outlet is protected with our grommet lid. Providing easy access to the electrical connection.

...and can be easily re-located or serviced.

COMMUNICATION CABLING

Pre-terminated communication cable assemblies are provided to meet your network specifications. These cables include jack & plug type connectors, one on each end. This creates easier connectivity for both your network and equipment outlets, reducing onsite work.



OUTLET COMPONENTS

Our communication components include our recessed connector mounting plate. Two communication connections are available in each plate. The connectors snap into the outlet plate for a stable connector mounting.



FINISHED OUTLETS

The finished communication outlet is also recessed into the floor surface using the same universal grommet. This type outlet is protected with our grommet lid, providing easy patch cable connections, with cable exiting through the access notch, with lid closed.



Our Modular Components install in less time, adapting to any site condition...



STAGING

Floor panels are stacked across the area of installation, thereby reducing handling and install time.



PLACEMENT

Our foam underlay is rolled out to prevent panel shift. Floor panels are placed tightly next to each other, starting in the corner of the install area.

EDGE CUTS

Perimeter components are cut to fill open spaces between full panels and system's edge, as well as around columns and other building elements.

EDGE FILL

The open areas are filled using perimeters cut to fit, or combination of pedestals and perimeters as required to complete the floor structure.



...and can be easily reconfigured or reused.



PLACEMENT

Full panels are placed filling the area, leaving open areas where full panels will not fit.

EDGE CARPET

Pre-glued carpet tiles are provided to be cut and dry fit to cover edge area.

OUTLET PANELS

Panels with universal outlet grommets can be exchanged with solid panels, per the desired outlet locations.

CUT CARPET

Carpet tiles that have been cut to fit are adhered to edge components by removing protective paper and pressed into place.

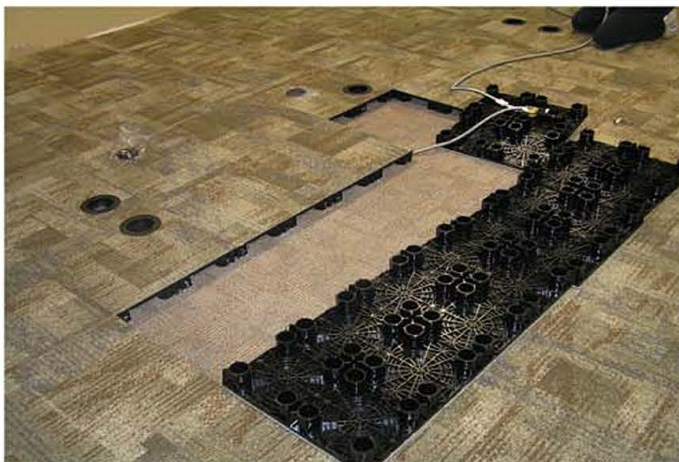


Electrical and communication components become an integrated part of the system...



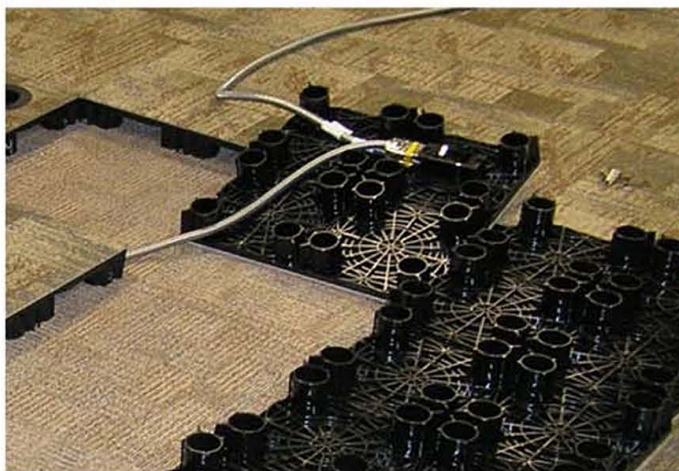
ELECTRICAL ASSEMBLY

Duplex outlet inserts are snapped into junction block bases and connected to each other using our cable assemblies (on top of our system panels) and situated next to each correlating grommet.



PLACING COMPONENTS

The appropriate floor panels are removed from the system in rows, between the outlet locations, and electrical outlet chains are then placed on the sub floor.



OUTLET MOUNTING

The assembled outlet is snapped into the bottom of the outlet grommet, and two locking spring clips are installed. Floor panels are then replaced, covering the electrical system.

...you now have a complete cable management solution.

COMMUNICATION ASSEMBLY

Pre-terminated communication cable assemblies are rolled out on top of the floor from the network connection point, routed and bundled appropriately to the outlet locations.



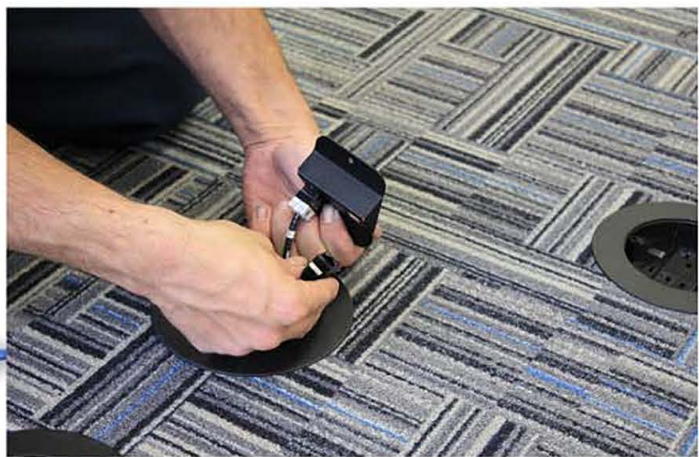
PLACING COMPONENTS

Again, the appropriate floor panels are removed from the system in rows, between the network connection point and each outlet. Cable bundles are placed on the sub-floor and panels replaced, with jack connector ends extending through the outlet grommet.



FINISHED OUTLET

The connectors are snapped into the back of the mounting plate, the excess cable and plate are pushed into the recess, and screwed into the outlet grommet, completing the outlet installation.



Meeting all connectivity requirements includes specialized connectors and devices...



MICROPHONE CONNECTORS

XLR style microphone connectors shown in the floor panel.



SPEAKER CONNECTORS

RCA Style speaker connectors shown in the floor. (additional types available.)

SPECIALIZED TECHNOLOGIES

Some technologies require connectivity to devices located at the user end. These devices, mounted in the workstation can easily be located under our floor structure.

POWERFLOR MAXI-BOX

Many underfloor boxes are commercially available. We have added our Maxi-Box to address the largest of these devices.



... that can be integrated into our cabling solution ...



MONITOR CONNECTORS

SVGA style monitor connectors shown in the floor panel. (various types available.)



FIBER OPTIC CONNECTORS

MT-RJ style fiber optic connectors shown in the floor panel

MAXI-BOX FLIP LID

Our Maxi-Box (interior clearance 2 3/8" h x 9 1/2" w x 19 1/4" l) allows even larger devices to be used and the box includes 15 - 1/2" diameter holes for cable access and ventilation.

MAXI-BOX POWER OUTLETS

Utilizing our electrical system, power Outlets can be provided in the Maxi-Box if needed



Moving outlets to accommodate change is simple . . . relocate outlets, quickly and easily!



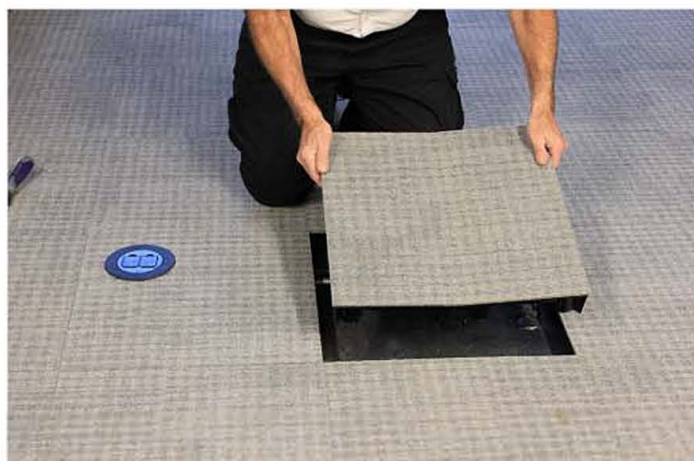
MOVING OUTLETS

Historically, moving outlets has been costly and labor intensive, often lacking in location options. With Powerflor the problem is solved. Using basic tools, outlets can be moved within minutes.



HOW TO MOVE AN OUTLET

Moving an outlet is super easy. Using any flat bladed tool, remove the selected panel with corresponding outlet, and any necessary adjacent panels. Then, simply reposition outlet to desired location, double checking connections. Replacing all adjacent panels, your move is complete.



THE POWERFLOR ADVANTAGE

Because all floor panels are the same size and not attached, they can easily be exchanged as a single unit. And, the connectivity provided via plug connections allows for the same reconfigurability. Any outlet can be relocated on the spot.

And, all aspects of the system have been tested in accordance with industry standards, meeting or surpassing all requirements.

WEIGHT LOAD SPECIFICATIONS

TEST	SPECIFICATION	VALUE
Concentrated Load	CISCA – Section I 1" ² Indenter / Weakest Point	1534 lb. Force / Fail Load
Ultimate Load	CISCA – Section II 1" ² Indenter / Weakest Point	1651 lb. Force / Fail Load
Rolling Load	CISCA – Section III 800 lbs. / Wheel A	10 Pass / No damage Or permanent deformation
Uniform Load	ASTME 2322 AC 151 Performance Requirement	No damage allowable at 1600 PSF uniformly distributed load. Pass (5x the load required by the law)
Maximum Uniform Load	0.1 in/min constant rate of loading applied over entire panel area through a 1 ¼" thick, 9¾" x 9 ¾" in steel loading platen	> 50,000 PSF Failure Load

FLAMABILITY SPECIFICATIONS

MATERIALS	SPECIFICATION	Miami Dade County Checklist # 0445		
		Test Results	Performance Requirement	Result
Polycarbonate Floor Pedestal	ASTM D 635 Rate of Burn	Class: CC1	Class C1 or C2	Pass
Polycarbonate Floor Pedestal	ASTM D 1929 <u>Self Ignition</u> Temperature	1076° F	>650° F	Pass
Polycarbonate Floor Pedestal	ASTM D 1929 Flash Ignition Temperature	734° F	N / A	
Polycarbonate Floor Pedestal	ASTM D 2843 Smoke Density	Rating: 38.4	<75	Pass
Foam Underlayment	MVSS-302	SE		
	FAR 25.853b	Pass (> ½" thick)		

CONNECTIVITY SPECIFICATIONS

COMPONENT	SPECIFICATION	VALUE
Tyco Electronics, Inc. AMPINNERGY	UL – 183 & 1286	Listed File: # E-132626
	NEC : Article 604,605, & 300-22C	Approved
Tyco Electronics, Inc. Communication	UL	Listed File: # E-81956

REPRESENTED BY:



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