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 assu​res 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 recycleable

**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.

**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.

**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 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.
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.

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

**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.

**FIBER OPTIC CONNECTORS**
MT-RJ style fiber optic connectors shown in the floor panel.

**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

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

<table>
<thead>
<tr>
<th>MATERIALS</th>
<th>SPECIFICATION</th>
<th>Miami Dade County Checklist # 0445</th>
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<tbody>
<tr>
<td>Polycarbonate Floor Pedestal</td>
<td>ASTM D 635 Rate of Burn</td>
<td>Class: CC1 Class C1 or C2 Pass</td>
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<tr>
<td>Polycarbonate Floor Pedestal</td>
<td>ASTM D 1929 Self Ignition Temperature</td>
<td>1076°F &gt;650°F Pass</td>
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<tr>
<td>Polycarbonate Floor Pedestal</td>
<td>ASTM D 1929 Flash Ignition Temperature</td>
<td>734°F N/A Pass</td>
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<tr>
<td>Polycarbonate Floor Pedestal</td>
<td>ASTM D 2843 Smoke Density</td>
<td>Rating: 38.4 &lt;75 Pass</td>
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<td>Foam Underlayment</td>
<td>MVSS-302</td>
<td>SE Pass</td>
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<td></td>
<td>FAR 25.853b</td>
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### CONNECTIVITY SPECIFICATIONS

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<thead>
<tr>
<th>COMPONENT</th>
<th>SPECIFICATION</th>
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<td>Tyco Electronics, Inc. AMPINNERGY</td>
<td>UL – 183 &amp; 1286</td>
<td>Listed File: # E-132626</td>
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<td>Tyco Electronics, Inc. Communication</td>
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<td>Approved</td>
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<td>Tyco Electronics, Inc. Communication</td>
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