

MASTERSHIELD TRAX™

TURF PROTECTION SYSTEM



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MASTERSHIELD TRAX™ TURF PROTECTION SYSTEM

Extra Heavy Duty Stadium Turf Protection for Pedestrian Traffic and Temporary Roadway Use

With extremely high built-in spread load capabilities, MasterShield Trax™ is used as a heavy duty temporary roadway for forklifts, large trucks and cranes. With the culmination of over 20 years of experience in the temporary roadway and event flooring solutions, Covermaster has used the latest computer aided design and testing to create a product that meets the challenges and requirements of the event flooring industry. MasterShield Trax™ is designed to take the weight and stresses exerted by forklifts and 100 ton cranes as used in the outdoor concert business.

MasterShield Trax™ is light enough to be put in position by hand, and with its overlapping design and unique interlocking system, it creates a continuous surface free from gaps and other potential trip hazards. Each panel can be overlapped and interlocked with other panels, creating a smooth, hazard-free surface. The streamlined, integrated interlock system consists of five retained fasteners per panel that are engaged and disengaged by rotating them ninety degrees with the installation tool provided.



The lightweight design and fastening technology minimizes worker bending, eliminates the need for loose components, and contributes to a safe and efficient job site environment.

The durable design can sustain the varying types of vehicular, stage, sound system and other structural loading and wheeled traffic stress, and is compact and well suited for chair setups, tent flooring and pedestrian pathways.

MasterShield Trax™ incorporates a flat bottom panel, which adds to its stability and strength. Mixing towers, speaker towers, staging, ballast and lighting trusses can be placed directly on MasterShield Trax™. This turf protection system is designed to handle the heaviest of weights, from vehicles, forklifts, and other moving loads and is the ideal choice for both backstage areas and front-of-house.

MasterShield Trax™ heavy duty turf protection systems can be used in conjunction with both the MasterShield Plus™ and MasterShield Lite™ models to provide the best stadium flooring solution for any event. Whether the event requires a complete driving surface or just portion of the surface to be drivable with the balance in a lighter pedestrian model, Covermaster can design the ideal MasterShield System for your facility. We have designed the support walls of MasterShield Plus™ to be rounded on the bottom, to eliminate sharp edges and reduce any potential damage or cutting of the natural turf. This feature will result in a better weight distribution on the tile, thereby reducing the possibility of a “cookie cutter”





effect on the grass surface. For synthetic turf, MasterShield Trax™ was designed specifically for today's systems and offers a superior level of protection against foreign contaminants. The overlapping design with, integrated out of sight Snap-Locks, and reduces any potential channels for spilled liquids to find their way to the artificial turf. The rounded lower support walls of MasterShield Trax™ will protect the surface of synthetic turf, while only leaving a slight trace of its presence once removed, which can be easily and quickly brushed out. This design will also prevent shifting of the snap tiles on the artificial turf or the displacement of the infill.

Features:

- Closed-back design to reduce heat build up
- Translucent virgin HDPE allows for photosynthesis to occur when grass is covered
- Vertical locking system for ease of installation
- Reinforced structural ribbing for strength
- Large overlap allows for uniform lateral load transfer between panels
- Designed to be drivable and pedestrian friendly
- Easy installation and handling
- 100% recyclable

Area of use:

- Stadium turf protection
- Portable Roadways solutions and pedestrian walkways
- Tractor Trailer loading/unloading, stage set up, rigging, heavy construction, etc.
- Solid base for crane set up
- Mixing Tower base
- Temporary Event Parking
- Tent, Concert, Event Flooring



MASTERSHIELD TRAX™ SPECIFICATIONS



SPECIFICATIONS	STANDARD	METRIC
Net Working Surface	13.5 ft ²	1.25 m ²
Weight Per Mat	47.5 lbs.	21.5 kg
Surface Dimensions	4 x 4 ft.	1.22 m x 1.22 m
Height	1.5"	38.1 mm
Net Working Surface Per Truck Based on GVWR rating of 80,000 lbs.	12,960 ft ²	1,393.5 m ²
Shipping & Storage Max pallet height not to exceed 42 inches	24 mats/ 4'x4' pallet 48 mats/ 4'x8' pallet	N/A
Compression Strength Based on an intermittent load on a 12" x 12" area	450 psi	3,100 kpa
Maximum Wheel Load Rubber tire @ <5mph with a minimum contact area of 9 square inches over level surface @ 72 F	300 psi	2,068 kps
Minimum Contact Area For Static Loads >250 pounds @ 72 degrees F	16 in ²	10.16 cm ²
Maximum Allowable Deflection	3"	7.62 cm
Temperature Range	-4°F – 113°F	-20°C – 4°C
Burn Rating Data is based on the materials used in manufacturing	UL 94-HB	NA
Colors	Translucent & Gray	Translucent & Gray
Usable Area per Truckload	13,000 ft ²	1,289 m ²



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MASTERSHIELD PLUS™ PROTECTIVE EVENT FLOORING



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MASTERSHIELD PLUS™ PROTECTIVE EVENT FLOORING

Medium Duty Stadium Turf Protection for Pedestrian Traffic and Temporary Roadway Use

For Use on Natural Turf, Synthetic Turf and Dirt/Sand Bases

MasterShield Plus™ is a snap lock portable event flooring system designed for high volume pedestrian traffic. Translucent sheets overlap to provide an easy to install, cost-effective turf protection system. Installing MasterShield Plus™ is simple. Overlap each panel and step down until you hear MasterShield Plus™ snap into position, then move on to the next panel. No locks or swinging hinges required.

MasterShield Plus™ stadium flooring is ideally suited for covering both natural and synthetic turf. On natural turf installations, MasterShield Plus™ works equally well on both warm and cool season varieties. Top ventilation holes allow air and moisture to reach the turf. Manufactured from natural virgin translucent High Density Polyethylene (HDPE), MasterShield Plus™ allows sunlight to pass through the surface, thereby allowing photosynthesis to continue. Another advantage of utilizing translucent HDPE is that it allows the sunlight to penetrate the interlocking floor tiles and draw up ground moisture, which forms a canopy of moisture on the underside of the top surface. After sunset, when the temperature drops and the moisture condenses, it will drop back to the ground. This natural water recycling will provide water to keep the grass healthy.



We have designed the support walls of MasterShield Plus™ to be rounded on the bottom, to eliminate sharp edges and reduce any potential damage or cutting of the natural turf. This feature will result in a better weight distribution on the tile, thereby reducing the possibility of a “cookie cutter” effect on the grass surface. For synthetic turf, MasterShield Plus™ was designed specifically for today’s systems and offers a superior level of protection against foreign contaminants. The overlapping design, with integrated out of sight Snap-Locks, reduces any potential channels for spilled liquids to find their way to the artificial turf. The rounded lower support walls of MasterShield Plus™ will protect the surface of synthetic turf, while only leaving a slight trace of its presence once removed, which can be easily and quickly brushed out. This design will also prevent shifting of the snap tiles on the artificial turf or the displacement of the infill.

High Quality Raw Material

Manufactured from Virgin High Density Polyethylene, MasterShield Plus™ is naturally translucent. Sunlight can penetrate through the interlocking panels, allowing photosynthesis to continue while the turf is covered. The result is that the turf can be covered for a longer period of time while retaining its health and color.

With this translucency and overlapping edge, MasterShield Plus™ is designed to offer a greater level of protection and performance than other temporary event flooring systems. MasterShield Plus™ comes in both natural and synthetic turf versions and is perfect for applications where more traffic is expected, including light equipment and vehicles.

With a multi-year UV additive, you can be assured an impressively long lifespan for MasterShield Plus™.



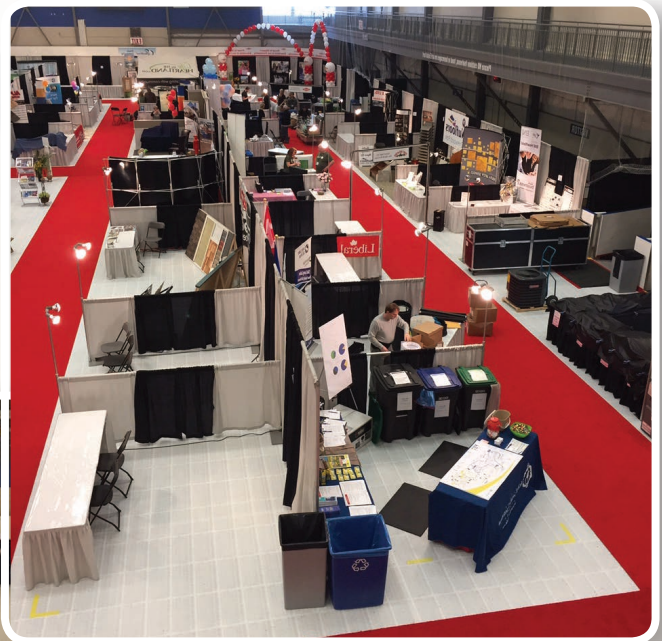
Design

The design criteria for MasterShield Plus™ was to create a turf protection product with not only an exceptionally long lifespan, but one that also would provide superior turf protection from non-athletic events as well as creating a micro-climate to ensure the prolonged health of the turf.

The design features an integrated Snap-Lock, which is molded into the overlap of the panel, thereby increasing the strength of the lock. Additionally, this design hides the Snap-Lock out of sight, both protecting it from pedestrian and light vehicle traffic on the surface and unwanted hands from trying to pry the tiles apart during events. The result is an interlocking flooring system that stays locked until you want to unlock it.

While the modular system is built off of individual tiles that are 1ft x 2ft (30.48cm x 60.96cm) wide, the unique design allows the tiles to be semi-permanently pinned together into panels that are 4ft x 7ft (1.22m x 2.13m). This greatly reduces the number of panels that need to be moved, but also makes removal faster and easier than other systems utilizing a “T-Connector” system, as it will not break into individual tiles but can be easily removed in the full 4ft x 7ft (1.22m x 2.13M) panel.

The integrated sand blasted “Diamond Plate” Slip Resistant tread design serves a double purpose. It contains the specially shaped air holes. Housing the air holes in the “Diamond Plate” tread actually elevates the air holes from the surface. The result is that it is difficult for spilled liquids to pass through the air holes to the surface below, as they will tend to spread out over the overlapping surface, where they can be cleaned up prior to removal. Additionally, the air holes themselves are designed in a cone shape, where the top surface is smaller than the bottom of the hole. Based on the physical properties of liquids, it is more likely that when spilled, they will bubble over the surface of the air hole rather than pass through.



MasterShield Plus™ Conquers Thermal Expansion

It is the nature of plastic to expand and contract with changes in temperature. While usually not noticed in most items, expansion of a plastic flooring system over an entire athletic field can be a very real problem. The result can be a floor that buckles, warps or even disconnects in some systems. To overcome this problem, we developed a unique modular expansion panel for MasterShield Plus™. With this unique, flexible and easy to use turf protection system, MasterShield Plus™ can be confidently installed with maximum flexibility in setup and layout design. Event organizers and field grounds crew can be confident that the MasterShield Plus™ expansion panel system will allow them to handle the natural temperature fluctuations throughout the day and event.

MASTERSHIELD PLUS™ EVENT FLOORING



Turf Protection Characteristics of MasterShield Plus™

- MasterShield Plus™ was designed for optimal turf protection during on-field non-athletic events.
- Cross ribbing structure core for effective weight distribution
- Air holes that allow for air ventilation and drainage
- A moisture canopy which creates an ideal amount of moisture for the natural grass
- Sunlight can penetrate through the interlocking panels, allowing photosynthesis to continue while the turf is covered

MasterShield Plus™ Applications

- Stadium turf protection
- Suited for general purpose stadium turf protection
- Ideal for High School & College Graduations
- Event, tent and concert Flooring
- Portable walkways
- Temporary dance floor
- Military shelter flooring

Clean Up

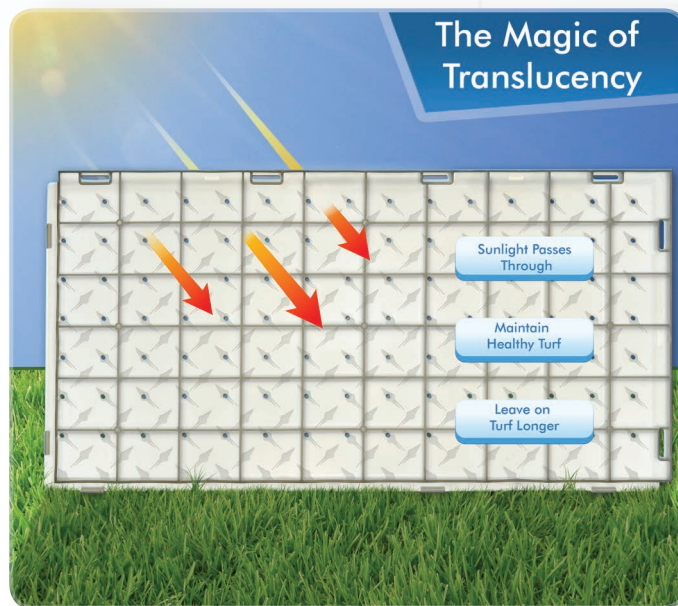
The ingenious design of the “Diamond Plate” tread pattern of MasterShield Plus™ not only provides optimal slip resistance, it also creates a surface that is easy to clean. With its use of raised rounded “Diamond Plate” treads and a sand blasted surface effect, there are no sharp edges or protrusions to trap dirt and debris. The surface can be easily cleaned with pressure washing.

Transport/Storage

Not only does MasterShield Plus™ cost significantly less, its light weight and compact design means transportation costs can also be trimmed. This makes MasterShield Plus™ one of the most cost-effective solutions available.

Recyclable

While MasterShield Plus™ is made from virgin material to allow light translucency for the health of the turf it protects, it was designed to be an eco-friendly product and is manufactured with 100% recyclable material.



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MASTERSHIELD LITE™ PORTABLE FLOORING SYSTEM



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MASTERSHIELD LITE™ PORTABLE FLOORING SYSTEM

General Purpose Stadium Turf Protection For Pedestrian/Lightweight Static Equipment Use

For Use on Natural Turf, Synthetic Turf and Dirt/Sand Bases

MasterShield Lite™ portable event flooring is a versatile stadium flooring system. It is ideal for natural and synthetic turf protection. It creates a homogeneous floor for areas where pedestrians and lightweight static equipment are to be used. MasterShield Lite portable flooring system is an economical way to turn your facility into a truly multi-purpose event venue.

MasterShield Lite™ modular flooring may be used as turf protection for various varieties of cool and warm weather natural. MasterShield Lite™ may also be used for protection of both duo and mono-filament synthetic turf and both rubber and sand in-fill types of sports fields. MasterShield Lite™ with Air Holes are ideal for natural turf fields. Each interlocking tile is designed with Air Holes, which allow for air ventilation and drainage. It has the added benefit of creating a moisture canopy underneath the tile, thereby creating an ideal amount of moisture for the natural grass. MasterShield Lite™ without air holes is designed for Synthetic Turf and Dirt/Sand surfaces, as it greatly diminishes the likelihood of spills from penetrating to the surface below. Both temporary flooring systems feature a cross ribbing structure core for effective weight distribution.

Designed To Be Easily Installed Without The Need For Tools



Quickly Install MasterShield Lite™

With a crew of about 20-24 people, it is possible to install about 10,000 square Feet (1,100m²) per hour of MasterShield Lite™. Removal of MasterShield Lite™ is even quicker, with a similar sized crew. This quick installation and removal time allows for more precise planning and a reduction in the amount of time that the protection layer is in place on turf.

MasterShield Lite™ stadium temporary flooring is designed to be easily installed without the need for tools and is configurable as required on-site. Interlocking tiles are pre-assembled into handling panels, which are compact for ease of transport and storage. Each MasterShield Lite™ panel module connects to the next using the unique Pivot-Lock™ connection system, which enables the interlocking panels to be snapped into place on the field for rapid deployment.

The incredibly strong Pivot-Lock™ connection system on MasterShield Lite™ is self-aligning and a 'snap' to use. The ball joint design of Pivot-Lock™ easily allows the system to follow the contour of any crowned field or other surface imperfection. The whole portable stadium floor system 'snaps' together with no tools, fasteners or special skill sets and removal is even faster. Anyone can do it! MasterShield Lite™ is an easy and fast temporary floor protection to deploy and remove, saving you money on costly labor. In fact, with its unique Pivot-Lock™ connector, MasterShield Lite™ can even be rolled, if desired.





MasterShield Lite™ Conquers Thermal Expansion

It is the nature of plastic to expand and contract with changes in temperature. While usually not noticed in most items, expansion of a plastic flooring system over an entire athletic field can be a very real problem. The result can be a floor that buckles, warps or even disconnects in some systems. To overcome this problem, we developed a unique modular expansion panel for MasterShield Lite™. With this unique, flexible and easy to use turf protection system, MasterShield Lite™ can be confidently installed with maximum flexibility in setup and layout design. Event organizers and field grounds crew can be confident that the MasterShield Lite™ expansion panel system will allow them to handle the natural temperature fluctuations throughout the day and event.

Turf Protection Characteristics of MasterShield Lite™

- MasterShield Lite™ event flooring solution was designed for optimal grass protection during on-field
- A moisture canopy which creates an ideal amount of moisture for the natural grass
- Cross ribbing structure core for effective weight distribution
- Air holes that allow for air ventilation and drainage

MasterShield Lite™ Applications

- Situations requiring a layer of protection between the ground and user
- Suited for general purpose stadium turf protection
- Ideal for High School & College Graduations
- Event, tent and concert Flooring
- Portable walkways
- Temporary dance floor
- Military shelter flooring



Material

MasterShield Lite™ is manufactured from high impact polypropylene. It has an ornate diamond slip-resistant pattern for safety, which is simple to clean. Air holes for ventilation are included for natural turf applications. With an included high UV package, MasterShield Lite™ has a life expectancy of 10 years or more, resulting in a high Return on Investment.

Clean Up

The MasterShield Lite™ design makes cleaning painless. Simply pressure wash the slip-resistant surface and you're ready for the next event. With a MasterShield Lite™ system, you can be confident that you are choosing a proven natural and synthetic turf protection system, backed by a company with over 40 years of turf protection experience.

MASTERSHIELD LITE™ SPECIFICATIONS



SPECIFICATIONS

DESCRIPTION

Dimensions	12" x 24" x 3/4" (304.8mm x 609.6mm x 19.05mm)
Weight	Weight: 29 oz. (825.25 g)
Material	Solid top design with patented ornate diamond pattern, high impact PP (polypropylene) suspended floor tile. Eighteen individual surface openings for natural air circulation and subsurface temperature control.
Flame Spread Index (ASTM E 84)	110
Smoke Generation (ASTM E 84)	37
Fire Rating (ASTM 2859)	ASTM D2859: UL94HB Passed
Friction (ASTM C 1028)	Dry – 0.77, Wet – 0.62
Compression vs. Crush (ASTM D 3998)	No Break
Noise Reduction Coefficient (ASTM C 423)	5-10%
Rolling Load (DIN 18032-02)	Pass – 52,000/panel
Force Reduction (DIN 18032-02)	22
Standard Deformation (DIN 18032-02)	0.5mm
Insulation (R-Value)	x<1.0
Flatness	0.0mm
Lateral Movement	0.00" – 0.010"
Fungus Resistance (ASTM G 21)	No Growth
Resistant to the following	Bacteria and Mildew, Staphylococcus, Klebsiella Pnuemoniae, Pink Staining Organism, STV Reticulum
Tested and Certified	NSF (National Sanitation Foundation)
Color	Available in stock Grey and Evergreen. Custom colors available
Warranty	(4) years from the date of installation
Life Expectancy	Minimum of 10 years
Applications	MasterShield Lite™ has countless applications. Perfect for stadium turf protection, event and tent flooring, portable walkways, military shelter flooring, portable vehicle access paths, or any other situation requiring a layer of protection between the ground and user.



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