



World's No.1 for **Turf** Protection



## terrtrak<sup>®</sup> Stadium Turf Protection Indoor & Outdoor

### FACTS about terrtrak<sup>®</sup>:

- COMPLETELY MONOLITHIC .. Locks directly to terrtrak<sup>®</sup>plus Solutions
- LONGEST GUARANTEE ..... 10 years – incl. camlocks/bolts
- SAFEST ..... Certified Non-Slip Surface
- FASTEST FITTING ..... Panel size 4.84m<sup>2</sup> / 52ft<sup>2</sup> means more coverage with each panel laid by 2 people

*(1 x panel = 4 tiles bolted together at the factory)*



Protect your playing surface with terrtrak Pedestrian Options that lock directly to all of the **terrtrak plus** Solutions



# terrtrak<sup>®</sup>

## OPTIONS

Terraplas products are all specifically designed for use in stadiums and arenas to protect their quality turf, so that venues can host vital revenue-generating special events. The unmatched expertise of Terraplas has allowed the creation of quality systems that allow facilities to accommodate high profile concerts etc., in quick succession with sporting events, secure in the knowledge that their playing surface is not at risk.

Terraplas pioneered 'turf protection' nearly 30 years ago and since then have been continually proven internationally as the turf protection systems of choice for Stadiums and Arenas.

To compliment the 3 terratrak plus Solutions, Pedestrian versions are also available *(which also accommodate light to medium weight vehicles with pneumatic tyres):*

**terratrak<sup>®</sup>WF**                      **with Feet & UV stabiliser**  
**Outdoor**  
for Natural Grass | Hybrid Turf | Translucent

**terratrak<sup>®</sup>NF**                      **No Feet + UV stabiliser**  
**Outdoor**  
for Natural Grass | Hybrid Turf | Artificial Turf | Translucent

**terratrak<sup>®</sup>OID**                      **No Feet + UV stabiliser**  
**Outdoor | Indoor**  
for Artificial Turf | /Athletic tracks | Grey Colour



Although some may feel that artificial turf does not need protection like natural/hybrid grass does, this is actually a fallacy – artificial turf needs MORE protection, as it is not easy to replace damaged areas

The top surface of **terratrak** has an integrated, very efficient, anti-slip pattern. The slightly embossed design provides small channels to keep any spilt liquids away from the patrons feet and helps to stop these liquids passing through to the turf below. They are shallow enough not to be a trip hazard.

Each panel of 4 tiles connects to its adjacent panels by means of patented vertical camlocks, which are manufactured from special nylon that is as strong as steel.



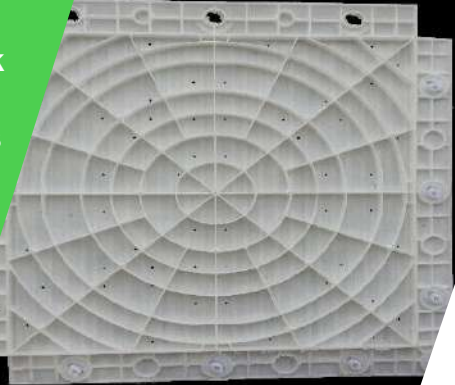
# terrtrak<sup>®</sup>

## OPTIONS

Each terrtrak tile incorporates a 100mm (4 inch) overlap, which provides huge strength and holds the patented camlock/bolt system. This overlap also includes strategically designed 'location bosses' that make alignment of tiles for fitting and locking together really simple. Additionally they act as stabilisers to resist the tiles twisting under duress.

The innovative circular ribbing geometry of **terrtrak** combines strength with light weight. The specially designed ribs spread the load evenly and any marks are easily removed with light brushing.

This strategically constructed underside provides 33mm 'head room' allowing the natural/synthetic turf to stand erect, preventing excessive stress.



**terrtrak-WF** is fitted with 25 x patented circular feet that extend 4mm from the underside of the tile to create air flow for natural grass, which reduces the possibility of disease.

## Fitting Tool

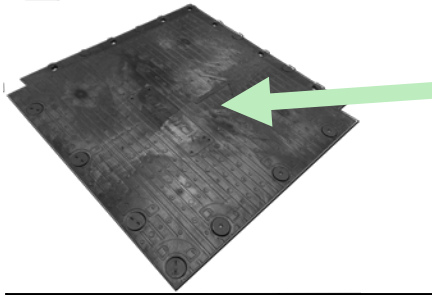
The only tool required for fitting is a T-Bar connecting key (provided with the system)

Close up of T-bar tip

Two people lay a panel of 4 tiles of terrtrak at one time, covering 4.84m<sup>2</sup> (52ft<sup>2</sup>). This results in the fastest laying times of any product, which is reflected in substantially reduced labour costs and turnaround times.

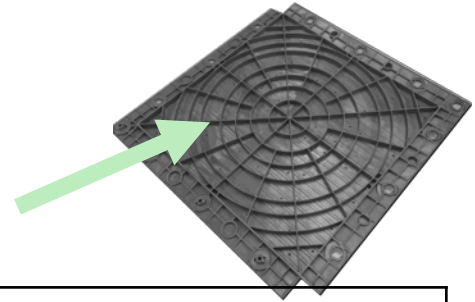
# terratrak®

## OPTIONS SPECIFICATIONS



*Top surface  
With integrated anti-slip*

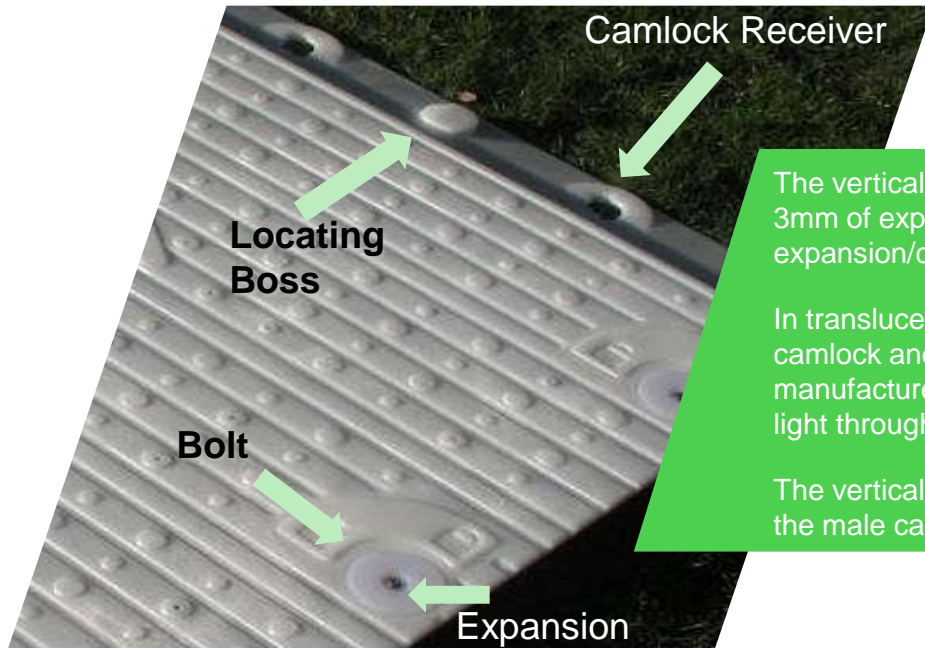
*Strength enhancing  
circular webbing*



<b>Dimensions (Physical)</b> <b>Dimensions (Usable)</b>	Physical size: 1.21m (4') x 1.21m (4') x 38 mm (1½"). Prior to shipping terratrak® tiles are bolted in panels of 4. The bolted panels are shipped on pallets. Each tile has a "Usable" top surface when fitted of 1.21m <sup>2</sup> (13.02ft <sup>2</sup> ), meaning a panel of 4 measures 4.84m <sup>2</sup> (52.ft <sup>2</sup> )					
<b>Weight</b>	<b>With Feet:</b> 13kgs per tile (29lbs per tile) Each bolted panel weighs 52kgs / 114lbs <b>No Feet:</b> 12kgs per tile (26.4lbs per tile) Each bolted panel weighs 48kgs / 106lbs					
<b>Material</b>	Virgin High Density Polyethylene. Fully recyclable (the strongest material available)					
<b>Method of Manufacture</b>	Structural foam Injection moulded using a blowing agent, which produces an engineering foam moulding with strength enhancing cellular core					
<b>Temperature Range</b>	-20°C to 60°C (-4°F to 140°F)					
<b>Weight Loading</b>	<b>With Feet:</b>	<b>kN per m<sup>2</sup></b>	<b>2,900</b>	<b>No Feet:</b>	<b>kN per m<sup>2</sup></b>	<b>2,600</b>
		<b>PSI</b>	<b>420</b>		<b>PSI</b>	<b>370</b>
		<b>lbf per ft<sup>2</sup></b>	<b>61,000</b>		<b>lbf per ft<sup>2</sup></b>	<b>53,000</b>
<b>Fire Resistance</b>	UL94 HB					
<b>Colours</b>	Translucent for natural/hybrid sports turf or Light Grey for other surfaces					
<b>Cleaning</b>	High pressure spray washer or Steam cleaner or special cleaning machine					
<b>Product Guarantee/ UV Guarantee/ Life Expectancy</b>	10 year Guarantee – including camlocks & bolts. 30 year UV Guarantee (UV additive products only) against UV degradation 20 year Realistic life expectancy					
<b>Slip Resistance</b>	Integral slip-resistant surface (complies with all Health & Safety requirements – certification supplied)					
<b>Overlap</b>	Full 100mm (4") Overlap, which increases its strength & holds the patented camlock/bolts. Plus it incorporates 'location bosses' for easy alignment for fitting that also act as stabilisers to resist twisting under duress.					
<b>Fitting Times</b>	Due to its large panel size & locating 'bosses' it has the fastest laying time of any product available >1,000m <sup>2</sup> per hour. To increase this speed bi-directional connectors are available, which can virtually double the amount of tiles fitted per hour. Access under the tiles can easily be gained by removing any set of tiles					
<b>Shipping Information</b>	<b>UK 13.6m truck</b>	1,100 tiles / 1,331m <sup>2</sup> / 14,327ft <sup>2</sup>				
	<b>48ft truck (aluminium frame)</b>	1,100 tiles / 1,331m <sup>2</sup> / 14,327ft <sup>2</sup>				
	<b>40ft HC container</b>	1,000 tiles / 1,210m <sup>2</sup> / 13,024ft <sup>2</sup>				
	<b>20ft GP container</b>	532 tiles / 644m <sup>2</sup> / 5,576ft <sup>2</sup>				
<b>Surfaces to protect</b>	Natural & Hybrid Sports Turf / Artificial/Synthetic Turf / Athletics Tracks / Stripped Turf / other non-grass surfaces					

terrtrak Options are bolted into 4s at the factory prior to despatch.

Each panel of 4 tiles locks to its adjacent panels by means of patented vertical camlocks, producing a completely stable monolithic temporary floor .



The vertical camlock & bolt fixings incorporate 3mm of expansion, giving a total of 6mm expansion/contraction per tile, in all directions.

In translucent tiles for natural grass, the camlock and bolt fixings are also manufactured from translucent material to let light through.

The vertical camlock receiver connects with the male cam.

Vertical Bolts are used to semi-permanently attach 4-tiles together, creating a panel measuring 2.2m x 2.2m / 87" x 87" – easily handled by 2 people for very fast fitting and lifting

This image shows top side of the vertical locking cam that locks the tiles into place.

Each camlock is securely locked using a T-Bar connecting key (supplied) to turn 90°.





# terrtrak<sup>®</sup>

## EDGE RAMPS

To protect the public from trip hazards, **terrtrak** edge ramps have been specially designed to create a smooth transition from ground to tile system, while complying with all Health & Safety regulations.



These ramps are available in red & yellow so that they can be fitted in alternating colours to ensure attention is drawn to the edges. The male and female formats allow each edge ramp to lock to its adjacent tile.



*Female/Under terrtrak edge ramps.*



*Male/Over terrtrak edge ramps.*



Use highly visible edge ramps for a smooth transition from earth to tiles & back again.

*(compatible with all of the **terrtrak** product family)*

### SPEED IS OF THE ESSENCE!

Advanced Accessories from Terraplas – for an even faster turnaround

Fitting times are critical when formulating calendars for special events, meaning that the ability to lay the turf protection in multiple directions at the same time is vital, saving on labour costs while at the same time reducing the period the turf needs to be covered!!

Terraplas' unique multi-directional connectors minimise fitting times by allowing the Crews to start at the middle of the pitch and fit outwards in both directions simultaneously – with laying around mixer/delay towers quick and easy!



Female-Female



Male-Female



Male-Male

Bi-Directional connectors are available in translucent, or any colour to match the tile colour for use indoors.  
*(compatible with all of the **terrtrak** product family)*



# terrtrak® FLEXI-ADAPTER

All plastic materials are by nature subject to expansion and contraction as a consequence of variations in temperature.

Whilst all Terraplas products are designed to accommodate the necessary 1mm per 10° temperature change, this adapter accommodates **up to 80mm additional** expansion/contraction, in each direction, allowing for the most **extreme** fluctuations in temperature.

Normally we recommend fitting Terraplas systems overnight, which means that the ambient conditions are more stable, reducing expansion/contraction.

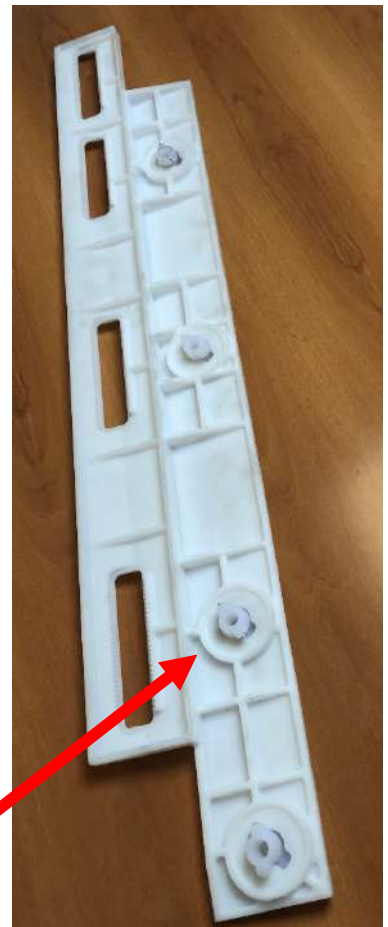
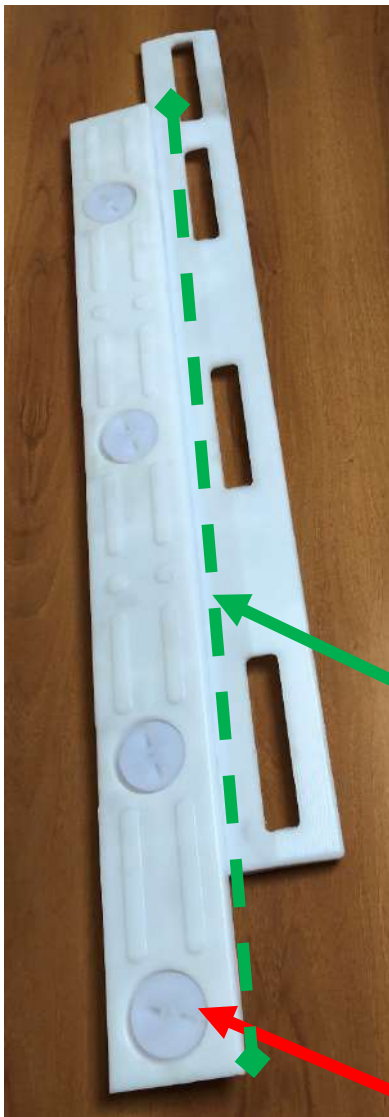
However, these unique flexi-adapters counter all fitting conditions – including misalignment during laying.

The flexi-adapters also facilitate the fitting of new tiles with older tiles where, inevitably, the lockability 'tightens' after a period of use.

The middle section of each unit measures 1.1 linear metre, to match terratrak® tiles

*Underside.*

*Top showing special – male cams & female slots*



Compatible with all of the **terrtrak** product family

# terrtrak<sup>®</sup>

## LOAD PROTOCOLS

Samples of terrtrak<sup>®</sup>WF and terrtrak<sup>®</sup>NF were sent to the **University of Manchester (UK), School of Mechanical, Aerospace & Civil Engineering**, for independent analytical point- and spread- load testing procedures to be performed on the material.

One of these procedures used machines calibrated to establish the point at which applied downward force, on one square foot of the material, started to adversely affect the structural integrity of the product. This process defines the spread load capacity of the product in a laboratory environment using metal flat surfaces with pressure applied to the top surface of the material.

The spread load per square metre for terrtrak-WF was established at 2,900kN (kilonewtons) and a 'psi' (lbs per square inch) of 420

The spread load per square foot for terrtrak-WF was established at 61,000 lbs and a 'psi' (lbs per square inch) of 420

The spread load per square metre for terrtrak-NF was established at 2,600kN (kilonewtons) and a 'psi' (lbs per square inch) of 370

The spread load per square foot for terrtrak-NF was established at 53,000 lbs and a 'psi' (lbs per square inch) of 370



**terrtrak Options lock directly to terrtrak plus Solutions.**

The top surfaces have different anti-slip patterns, making it easy to see which is fully drivable and which is not.

**terrtrak** Options are designed to protect natural grass (translucent) / artificial / synthetic turf fields / athletic tracks etc during events, leaving little to no maintenance requirement after each event.

All **terrtrak**® Options are produced from the same moulds, meaning consistent performance across the range. While **terrtrak-WF & -NF** are manufactured from translucent virgin HDPE, the other **terrtrak Options** are produced in light grey HDPE.

All the **terrtrak** family of products use the same very strong (nylon 66) locking system of cams and bolts and are designed to lock together seamlessly.

**Terraplas** also has 3 fully drivable terratrak®plus Solutions that lock directly to the terratrak® Options:

**terratrak®plus**                      **with UV stabiliser & Seal**

**Outdoor**

for Natural Grass | Hybrid Turf | Artificial Turf & other surfaces | Translucent

**terratrak®plus<sup>SFV</sup>**                      **with UV stabiliser & Seal**

**Outdoor**

for Artificial Turf | /Athletic tracks | Grey Colour

**terratrak®plus<sup>SID</sup>**                      **with UV stabiliser but no Seal**

**Outdoor | Indoor**

for Artificial Turf | /Athletic tracks | Grey Colour





World's No.1 for *Turf Protection*

## **FOR FURTHER INFORMATION:**

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