



Removable natural turf system for modern stadia



True multi-use stadium

- Increase stadium use, event income and profit
- Hold events on different surfaces with easy setup
- Entire surface changed between events
- Surface change from grass to concrete in 10 hours
- More frequent events
- Flexible event scheduling
- Interchangeable for concerts, conferences, car shows, football, equine events and more
- Playable immediately after installation and surface preparation

World-class grass surface

- Consistent high quality natural grass playing surface
- Grass stored and grown in full sun outside of stadium
- Grass not damaged by other events
- Entire field or damaged areas, such as goalmouth, easily replaced
- High drainage rate for all-weather use
- Resolve problems of sunlight and airflow for grass growth
- Assist with cold climate turf management



Robust design

The modules of the Portagrass system are 2.4m x 2.4m galvanised metal frames supporting the proven StrathAyr rootzone stabilised with ReFlex® mesh elements.

The system has been designed for maximum grass growth, ease of use and durability. Air, heating and drainage channels are incorporated into the design. The system is proven by year of use.

Easily movable modules

The modules are easily moved with standard forklifts with long tines. They are best installed on a concrete stadium floor. The modules are moved into the stadium, the surface is checked and rolled, markings painted and then it is ready for play. The system provides complete flexibility in management of the playing surface.

Grass maintenance

The grass maintenance program is standard for a sand profile. The surface is normally stored and maintained at a nursery site in full sunlight, resolving problems from lack of sunlight and airflow inside the stadium.

In cold climates, Portagrass modules can be maintained in a greenhouse during winter to enable use of the surface year round. Any grass type can be used, the system is proven with Bluegrass and Couch/ Bermuda grass with the option to blend or over-sow Ryegrass.

Consistent quality playing surface

The playing surface is smooth and consistent. Joins between the Portagrass modules are barely visible, level and tight, with no effect on play. Stadia maintain spare modules to fix damaged areas and high use stadia can maintain two surfaces.



Technical specifications

Dimensions	2.4m x 2.4m (8ft x 8 ft)
Depth	200mm (7.8 inches) plus grass
Weight	1,500kg (3,300lb)
Material	Galvanised steel base with plastic inserts
Field size and shapes	Modules cut to any size and shape
Portability	Fast and easy to move with forklifts
Module joins	Level and tight
Growing profile	Sand and peat reinforced with ReFlex® mesh
Drainage rate	Minimum 100mm (4 inches) per hour
Turf grass	Any turf grass species
Aeration	Good airflow under root zone
Heating	Air or ground heating
Pitch Base	Normally concrete
Irrigation	Surface or in-ground sprinklers
Load Bearing	Options of 9 or 12 tonnes per 4 tyred axle



Portagrass in use

Australian tennis body

A Portagrass portable tennis court is maintained by Australian tennis' governing body to enable ties to be held on grass at various venues around Australia.

The court has been transported up to 1,800 km/1,100 miles for a tie. It is installed three weeks before use to provide the exacting surface required for tennis, on a heavy clay profile and grass cut to 4-5 mm.

A previous design of the portable court was used for three seasons of Davis Cup finals between 2001 and 2005 in Melbourne and Sydney, also yielding a first class playing surface.

Recent Installs and tournaments;

- Time lapse of installation Canberra, 2018
www.youtube.com/watch?v=kqe2STGxkGI
- Fed Cup. Australia vs Ukraine, February 2018, Canberra.
www.youtube.com/watch?v=Ss0OArRELI
- Davis Cup. Australia vs Slovakia, September 2016. Sydney
- Davis Cup. Australia vs USA, March 2016. Melbourne.
www.youtube.com/watch?v=6TKzhVK06h4 and
www.youtube.com/watch?v=x7pyKgGQoG0

"This is a very good court. StrathAyr have put this court in... It is a beautiful grass court." John Fitzgerald, commentator and winner of 36 singles and doubles titles , 2016.

"The court's playing very fair. It's a very, very nice grass court. It's one of the nicest grass courts I've ever played on... The court's in fantastic shape." John Isner, top ranked US player, 2016

NRG Stadium, Houston, Texas

NRG Stadium is a retractable roof, multi-use venue. It hosts NFL, international and major league soccer, college football, rodeos, concerts, monster trucks, Disney on Ice, circus, basketball and numerous other events. The Portagrass system was installed in 2002 to enable rapid change between grass and non-grass surfaces. The surface consisting of 1,250 modules was removed more than 20 times per year and could be installed in 10 hours and removed in eight hours. NRG stadium used the system from 2002 until 2015.

"The flexibility of having a removable turf system with a concrete floor underneath has proven essential to maximizing event activity at the Stadium. The venue is used over 100 days a year. The field is removed from the stadium around 20 times per year and is relocated within one day."

Mark Miller, General Manager, NRG Stadium, Houston, 2006

Sam Houston Race Park, Texas

The system combines a natural turf racetrack with a roadway crossing for heavy vehicles. On race days Portagrass provides a perfect racing surface. On non race days the modules are removed to create a durable roadway. The StrathAyr system has been in use since 2008.

Assembly

Assembled and grown-in by specialist operators and machinery at a nursery site.



Examples of soccer played on Portagrass at NRG Stadium:

2015 Mexico vs Honduras

2013 Mexico vs Nigeria

2012 Mexico vs Venezuela

2011 CONCACAF Gold Cup semi-finals
www.youtube.com/watch?v=W91EgtJkuQo
US vs Panama and Mexico v Honduras
www.youtube.com/watch?v=RWIKLW2I5fY

2010 Mexico vs Angola

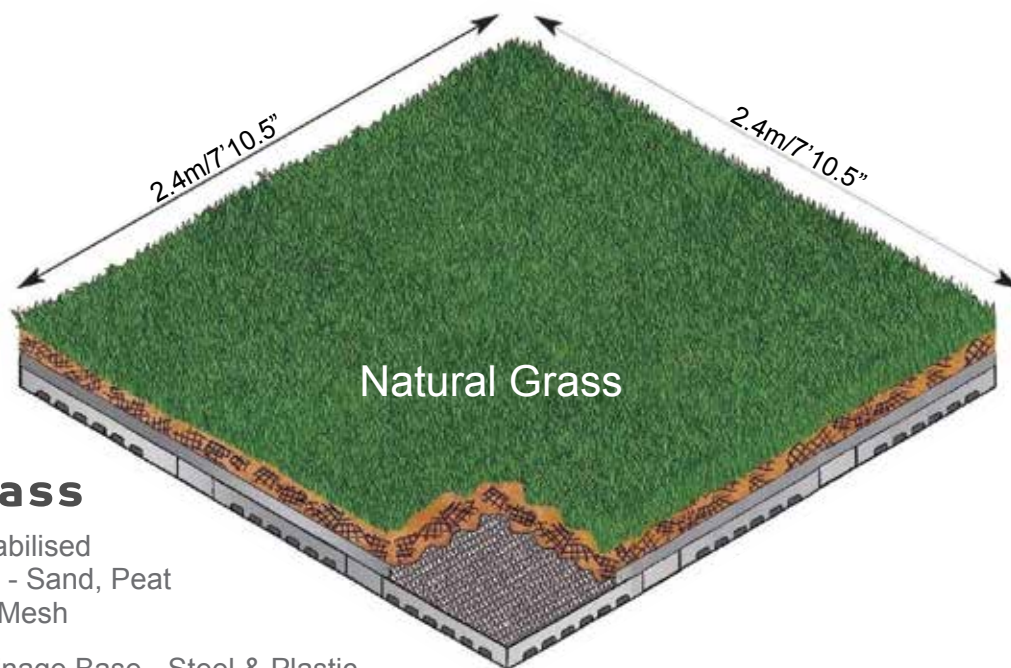
2010 Manchester United vs MLS All-Stars
www.youtube.com/watch?v=RJ6bkoJuxEk

2008 Free Kick Masters

2007 CONCACAF Gold Cup

2006 LA Galaxy vs Houston Dynamo

2006 FC Barcelona vs Club América



portagrass

120mm/4.7" Stabilised
Growing Profile - Sand, Peat
Moss & Reflex Mesh

80mm/3.1" Drainage Base - Steel & Plastic

Portagrass

Originally known as StrathAyr, Portagrass is an Australian based innovator in natural grass sports surfaces providing world class sports field and racetrack constructions.

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