



**AstroTurf®**



# **QUALITY FIELD HOCKEY SYSTEMS**

A full range of Hockey and Multi-Purpose Systems  
*for every need and budget.*

[astroturf.com](http://astroturf.com)

# A LONG HISTORY OF **INNOVATION**

THERE'S A LOT MORE TO  
**QUALITY**  
**HOCKEY SYSTEMS**  
...THAN JUST WHAT'S ON  
**THE SURFACE**

AstroTurf® has a long history of innovation and leadership in the hockey world. It's the brand that changed the sport. And it's the sport that has shaped AstroTurf's history. Our specialized knitting equipment and manufacturing history has kept AstroTurf at the very top of the hockey world's elite surfacing.

Today our leading fiber technologies and modern plant have enabled us to deliver high quality hockey fields through a full range of affordable systems.

- The inventor of synthetic turf and the leader in hockey!
- A vertically integrated manufacturer – we can take a raw polymer through all phases of manufacturing, installation and service.
- A supporter of and ally to international hockey organizations around the globe, including FIH, USA FH, NFHCA, EHF, Pan AM and more.
- A Preferred Producer of several FIH-Certified systems to meet every need.
- The surface used at every NCAA DI Final Four tournament since the game left natural grass.
- A fount of institutional knowledge – our manufacturing facilities have been in continuous operation since 1968. A supporter of hockey at all levels of the game.



**It's all about performance**

**AstroTurf.**

## **sportgroup** **AstroTurf.**

SportGroup is today's true global sports surfacing giant, with manufacturing facilities around the world. Active in over 70 countries. SportGroup has installed more than 13,000 artificial turf fields and 16,000 running tracks. Sport Group was created by selective acquisitions of the leading turf, track, indoor and outdoor sports surface manufacturers.

As a member of the SportGroup family, AstroTurf is in the enviable position of enjoying a completely vertical and fully integrated environment, where all of its ideas can be brought to life in a market hungry for innovation.



# FIELD TECHNOLOGY

## FOR TODAY'S HOCKEY WORLD

### KNITTING AND TUFTING OUR WAY INTO THE FUTURE.

#### FABRIC CONSTRUCTION

**Knitting:** Fibers knotted together. Very durable, non-directional, with superior seam strength.

**Tufting:** Fibers punched through backing.

#### FIBER COMPOSITION

**Nylon:** Superior fiber resilience (memory) and strength. Enhanced ball roll characteristics.

**Polyethylene (PE):** Less abrasive and less expensive than nylon. Repels water.

#### ELASTIC LAYER

An AstroTurf E-layer base system, or the side profile, in a field hockey field is of utmost importance in ensuring the overall performance and safety of the playing surface. This layer, designed for shock absorption and evenness, plays a pivotal role in cushioning the impact of intense gameplay, reducing the risk of player injuries. Furthermore, the E-layer base system contributes significantly to the field's structural integrity, preventing unevenness, and maintaining a consistent surface for ball roll and player movement. The E-layer base system is the hidden foundation that underpins the quality, safety, and fairness of field hockey gameplay, making it an indispensable component of any top-tier field.

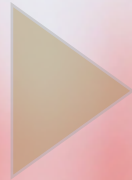






## ENTANGLEMENT

To prevent splitting of PE fibers, we entangle the side chains to reinforce any weak spots that would form between the main molecular chains.



**WITH ENTANGLEMENT**  
Cross chains reinforce the main molecular chains



**WITHOUT ENTANGLEMENT**  
The main molecular chains are vulnerable to splitting



## SHARKSKIN

Sharkskin technology engineers the molecular structure of PE, creating a rougher surface that resembles the scales of a shark's skin. With less contact points, the fiber is less abrasive. Think about sliding your hand across glass. The surface is so smooth that it creates significant friction!

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# WHICH SYSTEM RIGHT FOR YOU?

## ASTROTURF SYSTEMS

We've got a full range of Hockey and Multi-Purpose systems designed to meet all of our customers' needs and budgets.

System	Fiber/Construction	Life Expectancy	Shockpad	Infill	FIH Certification	Ideal for	Cost
<b>AstroTurf®12</b>	Knitted Nylon	8-10 Years	Required	None	Global	Elite Play	\$
<b>Paris GT</b>	Tufted, Sugar Cane PE, Carbon Zero	8-10 Years	Required	None	Global	Elite Play	\$
<b>Poligras®</b>	Tufted PE	8 Years	Required	None	Global	Elite Play	\$
<b>PGPN</b>	Tufted Nylon & PE	8 Years	Required	Sand Dressed	Pending	Club/ Multi-Sport	\$
<b>RootZone 3D3 HD</b>	Tufted PE	8 -10 Years	Required	Heavy sand & alternate infill	Multi-sport	College/ High School/etc.	\$
<b>RootZone 3D3</b>	Tufted PE	8 -10 Years	Optional	Moderate	Multi-Sport	College/ High School/etc.	\$

## AVAILABLE OPTIONS:

### ASTROTURF 12

"The Original" AstroTurf carpet for Field Hockey-exclusive fields. Knitted fields are the most durable and most uniform. Nylon is durable and hydrophilic (absorbs water) – exceptional for wet play. Most uniform and consistent surface. Used by the most elite programs.

### PARIS GT - USED FOR WET AND DRY HOCKEY.

Carbon Zero bio based tufted polyethylene turf system. Engineered with Turf Glide additive to enhance ball performance on a dry hockey system. Developed for Olympic level fields.

### POLIGRAS PLATINUM COOLPLUS

Tufted polyethylene, engineered with cool plus to lower the turf temperature. This fast system was created for the Rio Olympics and has quickly grown in popularity in the US.

### ROOTZONE 3D3 HD SYSTEM

Rootzone 3D3 HD system, for a multiuse field with a field hockey focus to enhance hockey performance, ball speed and ball roll. The low pile height of this product at 1.5" helps keep ball speed high on a multipurpose field. This system is ideal for a shared field hockey and soccer system.

### SAND FILLED SYSTEM

For multipurpose fields, especially shared with lacrosse and/or soccer. The low pile height of this product at .75" helps keep ball speed high on a multipurpose field. This system is ideal for a shared field hockey and soccer system.

### ROOTZONE 3D3 BLEND

For multipurpose fields, especially shared with lacrosse, soccer, and even football (must have a pad or more rubber for football use).





Liberty University



Duke University



Boston University



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# SUSTAINABILITY



## A SUSTAINABLE REVOLUTION IN HOCKEY

### TAKING RESPONSIBILITY FOR PEOPLE AND THE ENVIRONMENT

AstroTurf has always attributed great importance to sustainability and environmental compatibility. As a system manufacturer with our own research and development, production, sales and in-house installation technology, we can stay true to this claim in our own special way.

### DEVELOPMENT AND DESIGN

Sustainability starts with the design and development of our products.

### RAW MATERIALS

We set uncompromising quality standards when selecting the raw materials used for our products.

### PRODUCTION

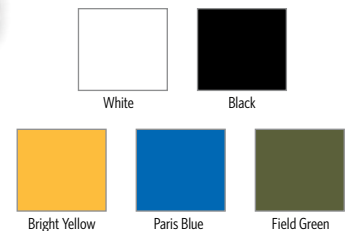
The reduction of negative environmental influences also plays an important role for AstroTurf production.

### USAGE AND MAINTENANCE

The service life is one of the most important prerequisites for ensuring a positive eco-balance of synthetic turf.

### RECYCLING AND REUSE

Even after their active career, our products are far from over.



### QUICK, PRECISE, COOL AND COLOR-STABLE

With a turf structure that is specifically adapted to the BioBased PE formula, Poligras Paris GT enables incomparably dynamic and precise play. Patented ENTANGLEMENT technology in the filaments means that the even, multidirectional surface remains stable in the long term, and is protected against premature wear. Polytan's CoolPlus technology ensures that the turf stays pleasantly cool even on hot days.

### QUICKER THAN EVER

Poligras Platinum has already impressively proven its speed at the 2016 Olympic Games in Rio. The Poligras GT will redefine speed in hockey: The ball roll distance on the new hockey turf could be improved by around 25% compared with Poligras Platinum.

### PRODUCT SPECIFICATIONS

- Monofilament turf fibre with a fibre thickness of approx. 110 µm
- Green Technology inside – filaments made from 60% regrowable raw materials
- Exclusive Polytan CoolPlus function
- Exclusive Polytan PreciTex texturing technology
- Exclusive Polytan 100 % PE composition with ENTANGLEMENT technology
- MultiBack backing construction


### PROPERTIES

- Filaments made from over 60% regrowable raw materials
- Turf Glide additive for dry turf performance
- An even, multidirectional surface for dynamic, precise play
- Optimum climate regulation
- Protection against abrasion and wear

### AREAS OF USE

- Professional hockey facilities and stadiums
- Club spaces
- Multi-sport facilities



The background of the entire page is a silhouette of the Eiffel Tower against a vibrant sunset sky with orange, red, and purple clouds. The tower is centered vertically and horizontally, with a bright light source behind it creating a lens flare effect.

# CHOSEN FOR PARIS 2024 OLYMPICS

**POLIGRAS<sup>®</sup>**  
**PARIS GT ZERO**

**CARBON ZERO**  
**FIELD HOCKEY TURF**

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# PRIDE IN OUR PEOPLE INNOVATION MANUFACTURING & HISTORY

**1964**

Synthetic Turf invented and called "ChemGrass"

**1965**

Ribbon extrusion started for AstroDome

**1966**

AstroTurf® installed at AstroDome

**1968**

Original synthetic turf patent awarded to AstroTurf

**1968**

AstroTurf's Dalton, GA manufacturing facility opened

**1975**

1st International Field Hockey game played on AstroTurf (Montreal)

**1976**

AstroTurf Olympic Debut at Molson Stadium, Montreal

**1979**

Pan American Field Hockey Games played on Puerto Rico's first AstroTurf surface

**1980**

Sewn seams introduced to the US market

**1981**

1st textured nylon ribbon field installed at Texas Stadium

**1982**

1st AstroTurf System 90 field installed in Australia

**1983**

Women's World Cup Hockey played on AstroTurf

**1987**

Pan American Games played on AstroTurf

**1989**

1st E-layer® systems installed at William & Mary and UC Berkeley

**1990**

World Cup Hockey on AstroTurf in Lahore, Pakistan

**1992**

Polypropylene fibers introduced

**1992**

AstroTurf used for Barcelona Olympics

**1996**

Atlanta Olympics on AstroTurf

**1999**

Pan American Games, Winnipeg, Canada

**2002**

Women's World Cup on AstroTurf (Perth)

**2002**

10th Men's World Cup, Kuala Lumpur, Malaysia

**2003**

European Nations Cup, Barcelona, Spain

**2005**

Women's Rabobank Champions Challenge, Virginia Beach, Virginia, USA

**2007**

EuroHockey Nations Championship, Manchester, England

**2008**

AstroTurf used at the Beijing Olympics

**2012**

AstroTurf JG introduced at Princeton

**2012**

Poligras used at London Olympics

**2013**

EuroHockey Nations Championship, Boom, Belgium uses AstroTurf

**2015**

AstroTurf's 50th Anniversary

**2015**

Pan American Games played on AstroTurf, Toronto

**2016**

Poligras used at Rio Olympics

**2016**

AstroTurf bought by SportGroup

**2017**

New AstroTurf manufacturing facility opened

**2018**

Poligras used at Women's World Cup in London and Men's World Cup in India and Asian Games in Jakarta, Indonesia

**2019**

Big Stadium Hockey

**2020**

Toyko GT at Tokyo Olympics

**2022**

Field Hockey 5's in Switzerland.

Poligras Platinum GT at Women's World Cup in Spain and Netherlands

Tokyo GT at Asian Games in Hangzhou, China

**2023**

Poligras Platinum GT at Men's World Cup in India and Poligras Tokyo GT at the European Championship in Monchengladbach, Germany

Paris GT Zero at Hockey 5's

1st Paris GT field installed at the new home of USAFH

**2024**

Paris GT at Paris Olympics

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# ASTROTURF IT'S ONE OF THE MOST ICONIC BRANDS IN SPORTS

While everyone recognizes the name,  
***not everyone knows the history!***

AstroTurf borrows its name from the Houston Astrodome, where it was first used in a professional sports venue over Fifty-five years ago. The space race was in full swing. It was a time of palpable optimism. A certain belief that man could conquer the constraints of nature with ingenuity and forward-thinking progress pervaded. The Astrodome was built during this feverish pursuit of the impossible. It was the first domed stadium and it was a marvel of sports architecture.

There was a major problem, though. The clear Lucite panels that comprised the dome created a glare. Astros outfielders and their opponents were blinded as they attempted – and failed – to catch pop-ups. The initial solution was to paint the ceiling to cut the glare. It worked, but another problem arose. Deprived of adequate sunlight, the grass died!

Meanwhile, Monsanto had just invented a brand-new product they called “ChemGrass”. During the Korean War, the U.S. Army had found urban recruits to be less physically fit than rural recruits. Attributing this to lack of green space in cities, the Ford Foundation funded research for Monsanto to create a synthetic grass replica. The Astrodome brought Monsanto in to install ChemGrass. It was a great success, and Monsanto capitalized on the popularity of its high-profile installation to rebrand their grass replica. Thus the “AstroTurf” brand was born.

Over the half century since AstroTurf was first installed in Houston, technology has rapidly improved. AstroTurf® has continued to drive innovation within the industry and these days, AstroTurf® products come ever closer to replicating the feel, performance, and safety of the gold standard – natural grass.

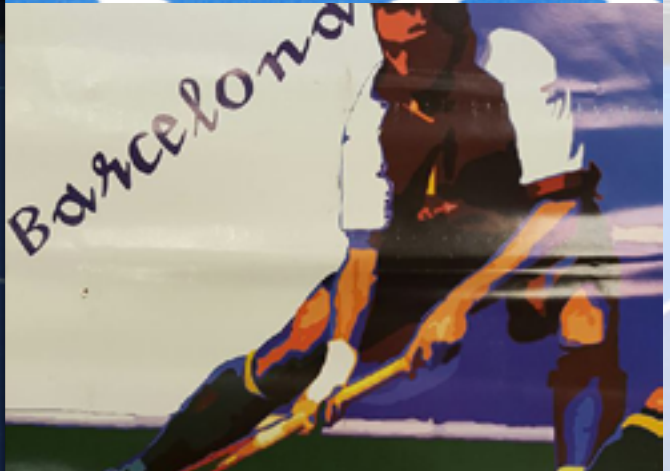
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FIELD HOCKEY





# OUR TEAM



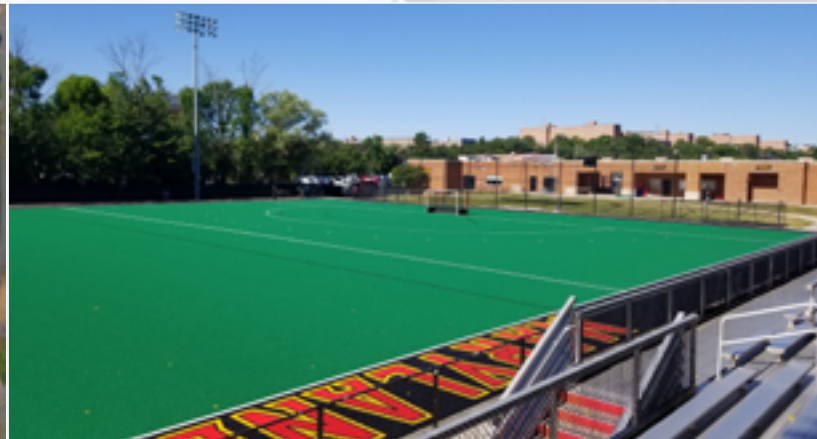
Amherst College



WC Eagles Field Hockey



Mount Holyoke College



University of Maryland



The Ohio State



Duke University

American University  
Amherst College  
Appalachian State University  
Boston College  
Boston University  
Bowdoin College  
Brown University  
Bucknell University  
Calgary Alberta - Hawkings Field  
Central Michigan University  
Colby College

College of the Holy Cross  
Colgate University  
College of William and Mary  
Cornell University  
Cowichan Sportsplex  
Dartmouth College  
Davidson College  
Duke University  
Field Hockey Ntl. Training Center  
Greenwich Country Day School

Hamilton College  
Hobart-William Smith College  
Keene State College  
Kent State University  
Liberty University  
Lock Haven University  
Longwood University  
Mary Institute & St. Louis Country  
Messiah College

Miami University of Ohio  
Michigan State University  
Middlebury College  
Mount Holyoke College  
Miss Porter's School  
Norfolk Academy  
Northeastern University  
Northwestern University  
Ohio University  
Ohio State University  
Old Dominion University



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Princeton University



Middlebury College



University of North Carolina



Tower Hill School - Wilmington, DE



University of Iowa



Dartmouth College

Penn State University  
Princeton University  
Rutgers University  
Saint Joseph's University  
Sportport International  
Stanford University  
Sweet Briar College  
Stevenson University  
Syracuse University  
Rutgers University

Temple University  
The College of New Jersey  
Tower Hill School  
Trinity College  
Tufts University  
University of California, Berkeley  
University of California-Davis  
University of Connecticut  
University of Delaware  
University of Iowa  
University of Louisville

University of Maine  
University of Maryland  
University of Massachusetts-Amherst  
University of Massachusetts, Lowell  
University of Michigan  
University of New England  
University of New Hampshire  
University of North Carolina  
University of Ohio State  
University of Richmond

University of Rochester  
University of Vermont  
University of Virginia  
US Olympic Field Hockey Training Center  
Vassar College  
Villanova University - The Proving Grounds  
Virginia Commonwealth University  
Wake Forest University  
WC Eagles Field Hockey  
William Penn Charter High School  
Yale University

# QUALITY FIELD HOCKEY SYSTEMS

A full range of Hockey & Multi-Purpose Systems  
*for every need and budget.*



## AstroTurf Corporation

THE WORLD LEADER IN SPORTS & RECREATION SURFACES

**AstroTurf**  
FIELDS

**Rekortan**  
TRACKS

**Laykold**  
COURTS

**SYNLAWN**  
LANDSCAPE

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