



European Synthetic
Turf Organisation

ANNUAL DIRECTORY 2010 / 2011



ENSURING QUALITY TURF

www.theESTO.com

The Annual ESTO Directory 2010 / 2011

If you are wanting to install synthetic turf, there are many benefits not least ESTO's five development pillars: Economics, Environment, Education, Performance, Community

These 5 development pillars also are 5 key benefits of installing synthetic turf. So whether you are involved in the amateur or professional game and whether your sport is Football, Rugby, Hockey, Golf or Tennis the synthetic turf option is worth considering. The decision has huge consequences for the impact of the facility,

The ESTO directory shows a two page advertising spread for each member and highlights many useful and important facts. Visit our website at www.theESTO.com for the latest information and please email us at info@theESTO.com if you need any help regarding synthetic turf.

Community

Economics

Education

Environment

Performance

VIEWS

LOCATED IN BRUSSELS

THE EUROPEAN SYNTHETIC

TURF ORGANISATION

ESTABLISHED IN 2007

LATEST DEVELOPMENTS

A MARKET WITH AN ANNUAL TURNOVER

THAT REACHES 1 BILLION EURO

INDUSTRY CONTACTS

NEWS

ITS MEMBERS EMPLOY

ENSURING QUALITY

ABOUT 10,000 PEOPLE

ESTO REPRESENTS ABOUT 90% OF THE

EUROPEAN SYNTHETIC TURF MARKET

PROFESSIONAL HELP AND ADVICE

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Simple steps to ensure high performance and durability

You have just installed a new synthetic turf sports field meeting ESTO quality standards (EN 15330-1). Taking into account the latest developments in our industry these rigorous standards are designed to ensure a long and productive life for your playing area.

However, to prolong its performance characteristics and durability and to ensure the maximum return on your investment, you will need to schedule an effective maintenance programme.

The detailed maintenance manual provided by your synthetic turf supplier will define the appropriate care regime for your field, and it is a good idea to discuss this, and the equipment you will need, at the outset. If you follow the directions closely you will ensure your surface provides many years of top quality performance.

While this regime will vary according to the local climatic conditions and how much your field is used a two-part maintenance programme provides best results, namely

- Routine inspection and maintenance
- Annual inspection and special care procedures



Routine Inspection and Maintenance

This work is generally carried out by the user's own maintenance team, trained by the supplier as recommended by FIFA, and therefore there is no need for special contractors.

On a regular basis, daily and weekly, visually inspect the surface to assess the state of the field, concentrating on:

Debris, such as litter, and also leaves, moss, branches, mud and other organic material. This should be removed as soon as possible using appropriate equipment, from leaf blowers and rakes to sprinklers. Weeds growing along the edges of the field should be pulled out, however do ask your supplier for advice before using herbicides.

Actual surface damage, such as loose seams, which should be dealt with as quickly as possible to minimise the impact of the problem. Loose seams should always be repaired by professionals.

Infill, because its stability is important to sustain a level playing surface. Regular brushing is effective to equalise the infill and straighten the surface pile. It is important to pay particular attention to high-usage places such as the goal area, and in particular the penalty spot, where the infill may need to be topped up from time to time.

Every installation is of course different, so it is important to follow your supplier's maintenance advice which will be tailor-made for your particular field.

Annual Inspection and Special Care

In addition to the routine programme, you need to schedule an annual in-depth inspection by an accredited expert as recommended by your supplier. The inspector will also supervise additional maintenance and any special care work required, such as

- De-compacting and levelling the infill
- Intensive cleaning of the infill
- Topping up of infill material
- Repair of damaged or worn-out areas

Your inspector and supplier will specify and then arrange for the special machinery and equipment needed to carry out these tasks.

Maximising Return on Your Investment

Modern synthetic turf sports fields are designed to last for 10 years, often much more if they are well maintained, however usually much less if they are not. In addition, your supplier's guarantees will probably depend on routine and annual maintenance being effectively carried out according to the programme agreed at the outset.

A proper maintenance regime will keep the surface in top condition and identify problems early, help to avoid expensive emergency works and ensure that your sports field is always available for use.

Problems which you can prevent by regular maintenance

Standing water	▶	Prevent by de-compacting
Uneven infill surface	▶	Prevent by regular brushing and topping up
Weeds	▶	Prevent by regular cleaning
Dirty surface	▶	Prevent by regular cleaning
Moss build-up	▶	Prevent by regular cleaning

BECOMING AN ESTO MEMBER

Who are ESTO?

The European Synthetic Turf Organisation (ESTO) is an established, not for profit Association created with excellence in mind. This concept is underlined by its chosen tagline - "Ensuring Quality Turf". ESTO has 5 recognised pillars of development – Education, Economics, Environment, Community, Performance.

Its objectives, based on Article 3 of ESTO's Articles of Association, are as follows:

- To protect the end user and player by ensuring quality synthetic turf at community, amateur and professional level across all sports.
- To promote social development and community values through the benefits of synthetic turf.
- To promote European sport through a spirit of peace, understanding and fair play, without any discrimination on account of politics, gender, disability, race, religion or for any other reason.
- To monitor and attempt to control the quality development of synthetic turf throughout the value chain.
- Ensuring that sporting and consumer best practice values always prevail over commercial interests.
- Promote unity among sports by working with National, European and International Governing Bodies in matters relating to European and World Sports, paying particular reference to playing surfaces and the use of synthetic turf.
- Acting as a voice for the European Synthetic Turf industry as a whole.
- To maintain co-operation and good relations with Sports Governing Bodies, National Governments and the European Union.
- Encourage and develop International co-operation in regard to the scientific, technical and day-to-day aspects of the Polyolefins Yarn and Tufting industry.
- Research and develop further opportunities for the synthetic turf industry – for example in landscaping.

ESTO seeks to achieve its objectives by implementing any measures it deems appropriate, such as setting down rules, entering into agreements or conventions, taking decisions or adopting programmes.

These interests will be served by:

- Bringing together the European Synthetic turf and tufting companies through representing the common interests of the European Polyolefins and Tufting Industry;
- Studying all questions of interest, taking the initiative and serving the interests of the end consumer and player;
- Ensuring co-ordination within the Industry, specifically avoiding duplications with other existing associations and ensuring that the general interests of the Polyolefins and Tufting Industry are acknowledged by International bodies;
- Not engaging in any political or religious activity and avoiding any activity which could be interpreted as infringing anti-trust or restrictive practice.



Why should you join ESTO?

There are business and social benefits when joining ESTO, however predominately you will play a part in the future development of synthetic turf and help to ensure that our five pillars – Economics, Environment, Education, Community and Performance continue to develop.

In summary, some of the benefits of joining ESTO are as follows:

- Participation at the ESTO Congress
- Participation in Technical and Marketing workshops.
- Free advertising space in the Annual ESTO directory
- Use of the ESTO Logo
- Official recognition as an ESTO member and certificate showing status.
- Discounts at Exhibitions, Conferences and Trade Fairs.
- Business to Business opportunities and regular networking
- Business to Consumer opportunities and networking.
- Your company listing and profile on the ESTO website
- Participation in the ESTO website, a constant source of information/Extranet
- All the latest Industry and Consumer news through receipt of the ESTO e-shots
- Helps to achieve enhanced customer satisfaction
- Being a part of new development test methods and maintenance guidelines.
- Annual ESTO golf day
- Annual ESTO Gala dinner and Awards.
- A supply of ESTO brochures and marketing material
- Professional Development and Training opportunities
- Be part of the European Quality Mark

Uniquely positioned, ESTO encourages clubs, sports governing bodies, professionals, consultants, manufacturers, suppliers, contractors, installers, testing laboratories, universities, sports development manager and facility planners to be involved and participate fully in the promotion and development of Synthetic Turf.

So for further information on joining ESTO and an application pack, please send an email to info@theESTO.com

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GREAT FOOTBALL

*on football turf pitches
in the Czech Republic
with companies*



**The Czech Association of Synthetic Turf
Football Pitch Manufacturers,
with ESTO Membership**



Milan Vopička
President

Milan Vopička
President

Ivan Kašpar
Vicepresident

Tomáš Vydra
Vicepresident

Jiří Křenek
General Secretary



Jiří Křenek
General Secretary

The **EKKL** company is a licensed installer of artificial grass. Our company specializes in the designing, construction and maintenance of sports surfaces. We have over 20 years of experience and aim to provide the best quality and services for our customers. Thanks to our professional team of workers, our company has realized until today a huge number of football pitches with both artificial and natural lawn. In 2009 we successfully built a top-class football

pitch in Konice. This pitch has subsequently received a FIFA** certificate. Further we also build athletic tracks, tennis courts and multifunctional sports grounds, including bottom structures, fencing and all sports equipment. EKKL holds the certificates ISO 9001 and ISO 14001.



Petr Klár
General Manager

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The construction and trading company **Envos** is active in the sphere of constructing sport pitches and road construction. The main program of its sports division is the construction, reconstruction, installation and maintenance of football pitches not only with artificial turf but with natural grass too. Our company executes orders not only in the Czech Republic, but also abroad. We have carried out installation, sub-base constructions or supervision in many countries not

only in Central Europe but as far as the Faeroe Islands, Cape Town in South Africa, Trinidad or the Republic of Jakutia in Russia. Our company cooperates with Greenfields, the manufacturer of artificial turf, and together we take part in the FIFA and UEFA projects. We have executed orders for football pitches that have received recommended FIFA* and FIFA** certificates. For our installations and maintenance of artificial turfs we use machines and equipment from the company SMG.



Michal Vokáč
General Manager

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Our company executes orders in the field of artificial surfaces, especially artificial lawns, among the pioneers in the Czech Republic. It was founded in 1991, when artificial surfaces were almost unknown in the Czech Republic. The company played an important role in the development and especially expansion of artificial surfaces.

700 sports grounds. Our leading idea is not quantity but quality. Therefore we use products of top quality and are convinced that what we do also stands the most exacting standards of quality.



Jiří Huptych
General Manager

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The firm was founded by Mr. Zdeněk Philipp, who gave his name to the firm – **Philipp sportovní trávníky**. The company has many years of tradition. Since the beginning of the 1990s it has been dealing with complete construction, maintenance and reconstruction of football pitches, both natural and also those with artificial turf of 3rd generation, including other sports areas (multipurpose playing fields, tennis courts, volleyball courts and golf courses).

Until today we have built 23 large football pitches with an artificial surface, among them also the football pitch of FK Trutnov, which has recently won a FIFA** certificate, and further 21 football pitches that possess the certificate of the Football Association of the Czech Republic. Several projects have been implemented by us abroad too.



Zdeněk Philipp
General Manager

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The Czech Association of Synthetic Turf Football Pitch Manufacturers, with ESTO Membership

The **Pragosport** company has been active for more than 30 years in the field of construction of artificial sports surfaces and, during that time, it has laid more than 500 000 m² of artificial sports surfaces in the Czech Republic. In 1994 a new contract was signed, which gave Pragosport the rights for an exclusive representation of the German company Polytan GmbH in the Czech Republic. From that time on, constructions or reconstructions of more than 30 artificial football turfs, athletic

tracks, and a considerable amount of school sports grounds and tennis courts have been implemented in the Czech Republic. We finish the construction of sports grounds in a volume worth over 2 million euros annually.

When laying Polytan sports surfaces, Pragosport also secures at a customer's request comprehensive construction of the underlay layers, including drainage systems of the sports surfaces, i.e. we will build your sports ground as a turnkey project.



Ivan Kašpar
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The building company **Prostavby** was founded by brothers Roman and Stanislav Pros. The beginnings of its activities fall within the second half of the 1990s. The company specializes in the construction of sports grounds with artificial surfaces. This construction is realized exclusively by our own employees and with machinery belonging to our company. Until today we have built 20 football pitches, more than 60 pitches for minifootball and a whole number of multi-

purpose playing fields and tennis courts for schools, communities and private investors. We also secure periodic maintenance and regeneration of all sports grounds built by us. During the existence of our company we have laid more than half a million square metres of artificial surfaces. We provide for the structures starting with consultancy and a project up to their implementation proper and final approval. Our philosophy is: a satisfied customer = a prosperous firm.



Stanislav Pros
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Sport-Technik Bohemia is the specialized company, which during 20 years of its activities has become a respected notion in the area of sports structures and which during this time has implemented more than 1600 sports grounds and centres on the whole territory of the Czech Republic. The technical and professional background is created by an experienced team of our own workers, especially in the leading person of company director Milan Vopička. He was

active sportsmen with 40 years of practice in the branch, closely cooperating with domestic and foreign subcontractors. In December 2007 was also elected as a President of The Czech Association of Synthetic Turf Football Pitch Manufacturers, with ESTO Membership.



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Tennis Zlín, a specialist in sports structures. Until the end of 2009 it realized more than 90 football pitches with artificial turf of 3rd generation, both in the Czech and Slovak Republics, among them two football pitches that have won a FIFA* certificate, one pitch a FIFA** certificate. In 2010 another football pitch will receive a FIFA** certificate. Tennis Zlín is the author of the patent for a system of heating a football pitch with artificial turf of 3rd generation, which was

realized on the football pitch of Myjava in the Slovak Republic in 2009. The firm has its own production of components for sports structures (elastic prefabricated underlays, coloured EPDM and SBR granulates, coloured sands, elastic elements into floor structures, prefabricated tiles for the dropping surfaces of children's playgrounds), and it holds the ISO 9001, 14001 and 18001 certificates.



Jiří Viktorín
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BASF – The Chemical Company

BASF has more than 20 years experience in the artificial grass market. Today, the company is a leading supplier of chemicals for artificial turf components. Its comprehensive portfolio includes additives such as light stabilizers and pigments as well as line paints, adhesives and shock pads:

- The portfolio of plastic additives includes the broadest range of light stabilizers and pigments for long lasting endurance.
- CONICA Sports Surfaces offers a broad range of products for artificial turf under the brand CONIPUR® including adhesives and line paints.
- The shock absorbent foam Neopolen® P eaTurf, an expanded polypropylene (EPP), provides the cushioning layer which lies beneath the dense green turf fibers.

BASF's experts provide extensive support in creating tailor-made sustainable and durable solutions for high performance artificial grass for in-/ outdoor sport, leisure and landscaping applications. Furthermore, BASF offers laboratory services for light-stabilization, long-term studies and mechanical testing.

Contact Details

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Play the game with a reliable partner

Competence in artificial turf



 **BASF**
The Chemical Company

Delivering Tomorrow's Synthetic Turf Solutions - Today

For over four decades Bonar Yarns has worked tirelessly to develop high quality revolutionary turf systems. And we are committed to raising the bar even higher with our innovative synthetic yarns. To deliver tomorrow's turf solutions – today.



Building on our long-term industry partnerships and in house technical manufacturing expertise, we offer a full range of yarns tailored to suit the demands of specialist sports and landscaping applications. Unrivalled skin friendliness, outstanding resilience and high durability are just a few examples of how our products enhance the performance of synthetic turf.

The latest additions to our range of specialized turf solutions include Coolgrass®, which significantly reduces the temperature of turf surfaces and offers maximum comfort to the user.

Why use Bonar Yarns?

- Excellent durability for lasting playing characteristics
- High service level
- Promotes state of the art turf systems tailored to specific end-users
- Excellent processability
- Outstanding quality and reliability



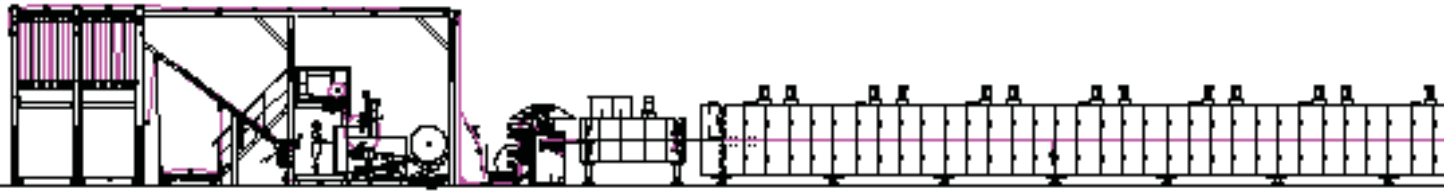
Delivering Tomorrow's Synthetic Turf Solutions – Today.

BONAR YARNS

www.bonaryarns.com

CAMPEN

BACKING LINES FO



Perforating roller



Centre drive

CAMPEN:
Associate member
of ESTO

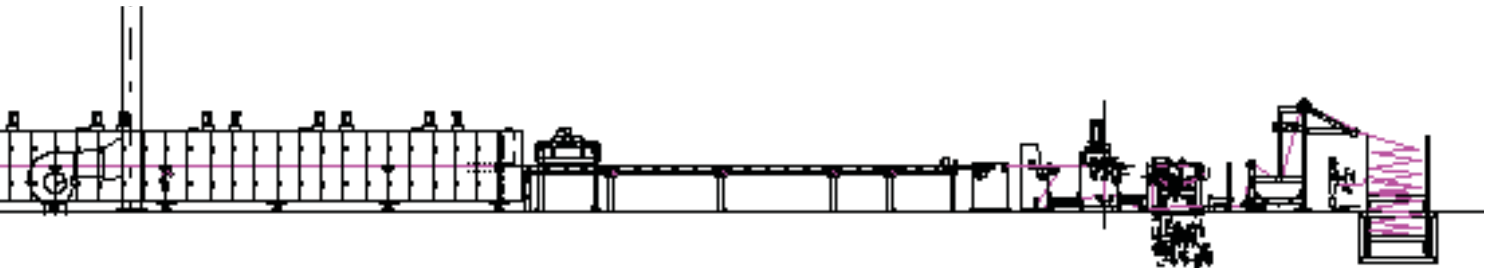


Special equipment for artificial turf, e.g. electrically heated perforating rollers.

Special winders with the possibility of centre drives, in combination with surface winding, ensuring a good roll quality – also at high pile products like artificial turf.

CAMPEN

R ARTIFICIAL TURF



Full split-zone dryers with a temperature difference up to 60°C between back and pile.

Heavy-duty stenter chain and rails, with proven stability.
Also suitable for very heavy carpet types and artificial turf.



Backing line for artificial turf

CAMPEN

CAMPEN Machinery A/S
Tingvej 34
DK-8543 Hornslet
Denmark

Phone: + 45 - 87 44 31 00
Fax: + 45 - 87 44 31 01
E-mail: campen@campen.dk
Internet: www.campen.dk



Innovative Products Designed to Deliver Superior Performance

Cytec offers innovative products designed to deliver superior performance. For more than 50 years, Cytec has been developing innovative light stabilizer and antioxidant technologies that give your products exceptional performance under the most challenging conditions.

Our new family of products, CYASORB CYENERGY SOLUTIONS™ stabilizers, is designed to meet the demanding requirements of specific plastics applications. These products provide superior stabilization performance while delivering value and shortening your new product development time.

CYTEC

Email : custinfo@cytec.com | Tel: +31(0) 10 712 7041
www.cytec.com

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Products

Over the last two decades, steady advances have been made in the stabilization of organic materials. Additives have been developed to effectively maintain the integrity of these materials through compounding, processing, fabrication and end use. Stabilizers will help maintain critical physical properties and will help prevent color fade, surface crazing, and loss of gloss in plastic and coatings. Loss of key properties upon exposure to sunlight can be prevented through the use of UV stabilizers.

Cytec's CYASORB® and CYASORB THT® light stabilizers and CYANOX® antioxidants are designed to help plastics perform better and last longer. CYASORB CYNERGY SOLUTIONS™ stabilizers is a new family of products developed with Cytec's innovative technologies and market expertise to meet the demanding performance requirements of specific plastics applications, including agricul-

tural film, automotive parts, packaging, molded containers and performance fiber.

Through Cytec's commitment to the artificial turf market, we have developed new solutions for PE turf, which extend the lifetime of these fibers beyond the current industry specifications.

Corporate Profile

Cytec Industries Inc. is a global specialty chemicals and materials company focused on developing, manufacturing and selling value-added products. Our products serve a diverse range of end markets including aerospace, adhesives, automotive and industrial coatings, chemical intermediates, inks, mining and plastics. We use our technology and application development expertise to create chemical and material solutions that are formulated to perform specific and important functions in the finished products of our customers.

CYTEC

Cytec Industries B.V., Polymer Additives Europe
Burgemeester van Lierplein 75, 3134 ZB Vlaardingen - The Netherlands

Email : custinfo@cytec.com | Tel: +31(0) 10 712 7041
www.cytec.com

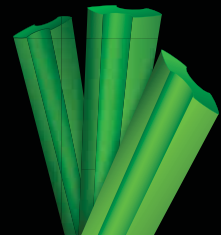
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Desso iDNA

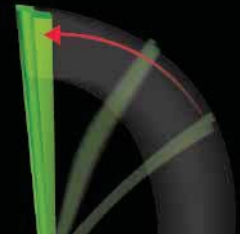
your IDea, our DNA



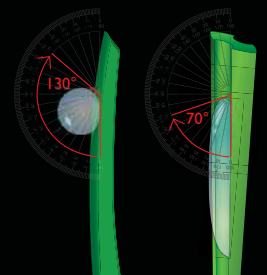
- New artificial grass system for football
- Desso iDNA fibre combines best of shapes
 - Unique shape (patented)
 - New composition
- Resilience and durability in one system
 - Optimal football properties
 - Characteristics retained over the long term
- Natural Look & Feel
 - New DualTone colours
 - Soft Touch
- Water-retaining quality
 - Goal: make artificial grass water absorbing as natural grass
 - First results in long-term HydroTec project
 - For natural sliding



Desso iDNA, unique shape



Desso iDNA, resilience



hydrophobic hydrophilic
HydroTec research project



www.dessosports.com | info@dessosports.com





About Desso Sports Systems

- Pioneer in artificial grass technology
- Taking the lead in innovation since 1980
- Monofilament technology in use since 1992
- > 50 million square meter of sports surface installed
- Total Quality Control:
R&D, fibre extrusion, turf manufacture and coating, independent quality control:
Iso 9001, Iso 14002, Dinzertco and other national and international standards

- In-house technical service department
- Sales offices throughout Europe
- Dedicated and reliable worldwide partner network

- 3F: Fit For the Future programme
 - multi-disciplinary long term research programme
 - collaboration with leading European technical institutes a.o. University of Ghent
 - integration feedback of end-users in product development

- Desso Sports Systems is FIFA Preferred Producer
- Supporting and promoting the Cradle to Cradle vision

References: World Cup 2010 South Africa, Arsenal FC, Tottenham Hotspur, AZ Alkmaar, HC Den Bosch, Wagener National Hockey Stadium, Alemannia Aachen, VfL Wolfsburg and 15.000 communities and clubs

Core Products and Services

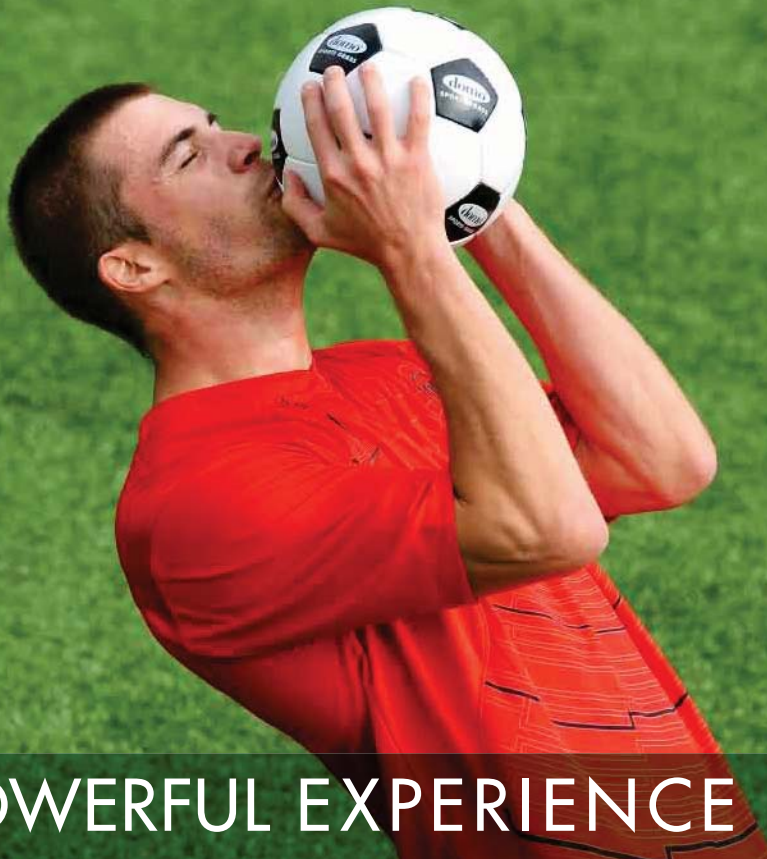
- Artificial turf for football, hockey, tennis, rugby, American Football, multi purpose
- Desso GrassMaster: patented natural grass reinforcement technology
- Inhouse technical service department for support on installation and its equipment, maintenance, maintenance equipment, dedicated training programs for installation and maintenance of artificial grass

Location / European Headquarters

Headquarters: Dendermonde, Belgium
 Sales offices throughout Europe
 Worldwide dedicated partner network



FIFA REFERENCES WORLDWIDE



A POWERFUL EXPERIENCE

DOMO® SPORTS GRASS EXPERT IN ARTIFICIAL GRASS

Domo® Sports Grass is a pioneer in the sports surfacing industry. Our passion for performance and our admiration for sports heroes inspire us to develop the perfect playing surface. Domo® Sports Grass is globally responsible for more than 50 million m² of installed artificial grass for football, hockey, tennis, American football, rugby, golf, skiing and multifunctional sporting applications. Over 25 years of experience and close collaboration with local authorities, councils, schools, sports federations and top players make Domo® Sports Grass an expert in the development and installation of hard-wearing, easy-to-maintain artificial grass pitches.

DOMO® SPORTS GRASS MEMBER OF SOLID DOMO® GROUP

Domo® Sports Grass is a member of the DOMO® Group, an international solid group active in three core activities: Alinso (real estate), Domo® Chemicals (nylon, nylon intermediates and polypropylene) and Domo® Industries (carpet yarns, staple fibres, technical textiles, floor covering and artificial grass for residential and sports applications).



CASE STUDY

DOMO® VARIOSLIDE S PRO PITCH "BILLERBECK" INTERNATIONAL TRAINING CENTRE IN GERMANY

Vfl Billerbeck chose the latest VarioSlide S PRO product. Vfl Billerbeck has been for many years now the permanent base of operations, together with the local sports' hotel, for many German and foreign sports clubs such as FC Gelsenkirchen-Schalke 04, the DFB national team, the Hamburger SV, Slavia Prague, the AZ Alkmaar etc.

The club had already seen a number of pitches of the VarioSlide type, and was highly enthusiastic about this top technical playing product. Not only young teams but also the top eleven players will have the opportunity to try out this brand new development in artificial grass for football.

Dieter Tartemann, DFB football coach and UEFA Pro-Coach, also provided positive advice on this type of grass mat, which he has several years of experience with. The Billerbeck pitch was created to satisfy the strictest FIFA requirements, the FIFA 2STAR in particular, and could therefore also be used without any problem for international competitions. This was also confirmed by the attribution of a FIFA 2STAR certificate.

"I have been working for years with artificial grass and this new Domo® VarioSlide S PRO product is definitely the best alternative to natural grass.



I am really excited by this new development of a total system concept including a top technology underlayer that guarantees playing properties in pretty much any weather conditions. This field meets all of the main criteria for football with flying colours: ball roll and bounce, shock absorption and levelness of the playing field. But the most innovative aspect of this pitch is the Heliflex Technology, the spiral that is built in to the fibre. This fibre ensures the best in terms of elasticity and guarantees that all kicking techniques can be carried out perfectly. In short, this is a wonderful field for training and matches for all football enthusiasts," says Tartemann.

PROJECT

BILLERBECK

LOCATION

International Training Centre
Sportpark Helker Berg
Helker Berg 1
48727 Billerbeck - Germany

GRASS MAT

Domo® VarioSlide S PRO 50 filled in with sand and rubber

BASE

Domoflex XC/10mm

LARGE FIELD

8272 m²

CONTACT

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B - 9100 Sint-Niklaas
T +32 3 780 45 75
F +32 3 780 45 73
domosportsgrass.com
sportsgrass@domo.org



SPORTS GRASS

GAME ON

We're as tough as the athletes who play on the turf. Advanced raw materials from The Dow Chemical Company create an artificial turf that stands up to the environment (even after prolonged exposure to sun and rain), while still supporting athletes in play. Our distinguished range of performance resins for yarn, infill, backing and shock absorption offer ideal turf solutions for a variety of applications from sports pitches to landscape and recreation areas.

The strong tuft bind and dimensional stability of Dow technologies means you'll see the difference in the turf's appearance and longevity. And athletes will feel the difference, thanks to a uniform and predictable playing field. For a home field advantage, consider artificial turf made with Dow polyurethane and polyethylene plastics.

END-USE BENEFITS OF DOW ARTIFICIAL TURF TECHNOLOGIES

Polymers for Yarn:

- Desired softness and targeted stiffness
- Optimized elastic recovery and resiliency
- Durability
- Consistent playing field

Polymers for Infill:

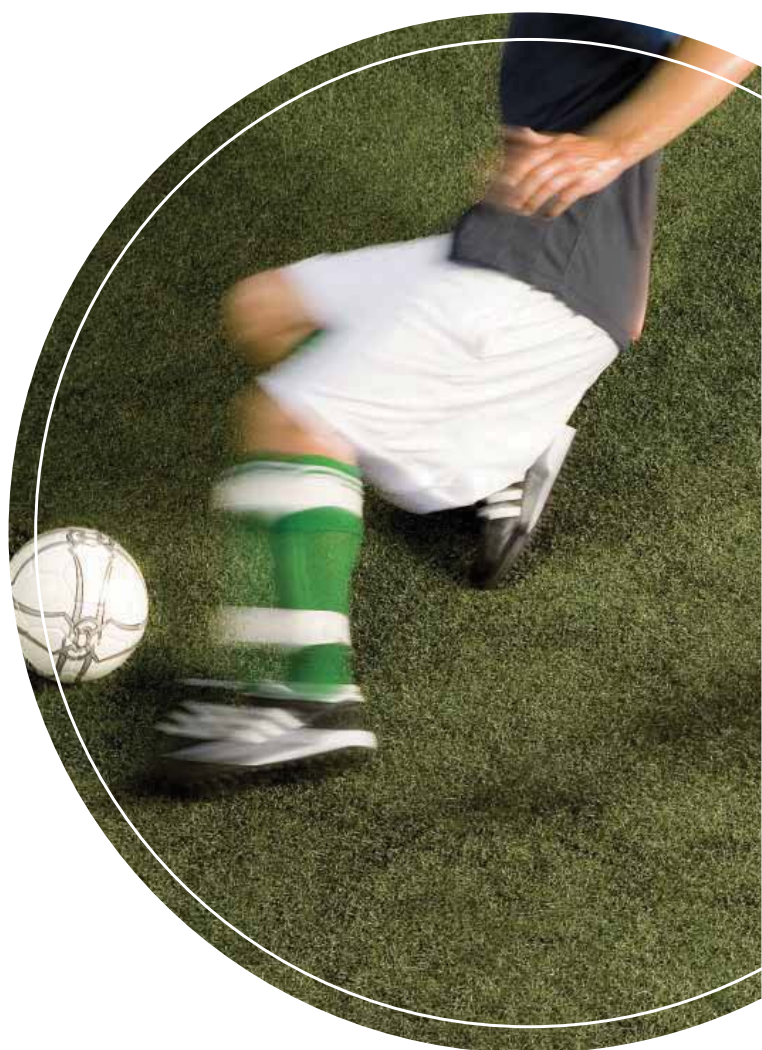
- Energy absorption
- UV stability
- Wear resistance
- Virtually odorless and dust-free

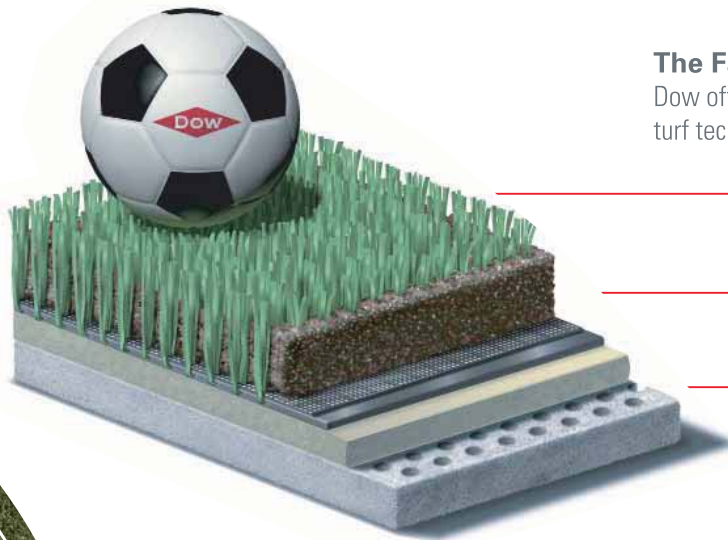
Polyurethane Backing and Shock Absorption:

- Strong tuft bind, even when wet
- Stable, uniform playing field
- Durability
- Shock absorption with the right amount of give

MANUFACTURER BENEFITS OF DOW ARTIFICIAL TURF TECHNOLOGIES

- Properties that can be tailor-made
- Formulation capability to design and control essential properties
- Reduced energy consumption
- Less waste disposal
- Higher yield
- Improved dimensional stability and tuft lock
- Reduced installation costs
- Easier to handle during installation





The Facts on Dow Turf Solutions

Dow offers a winning team of artificial turf technologies, including:

YARN – AFFINITY™ Polyolefin Plastomers, DOWLEX™ Polyethylene Resins and ELITE™ Enhanced Polyethylene Resins

INFILL – AFFINITY™ GA Polyolefin Plastomers, ENGAGE™ Polyolefin Elastomers and INFUSE™ Olefin Block Copolymers

BACKING – ENFORCER™ Sport Polyurethane Systems

SHOCK ABSORPTION – ENHANCER™ Sport Polyurethane Foams, VORAMER™ Polyurethane Binders and Polyolefin Solutions

ABOUT DOW

Dow's artificial turf solutions offer a broad range of complementary raw materials for artificial turf components. Yarn, infill, backing and shock absorption components are individually tailored to the needs of each system by combining the expertise of Dow's specialist business units, Base Plastics, Specialty Plastics & Elastomers and PU Systems.

For more information about artificial turf solutions from Dow, visit us online at dowartificialturf.com.

®™ Trademark of the Dow Chemical Company ("Dow") or an affiliated company of Dow.

Edel Grass, the

Edel Grass has over 30 years of experience in the market for artificial grass pitches and landscaping.

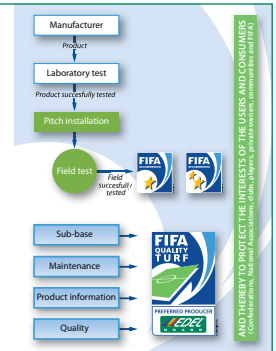
Since the beginning we are one of the leading manufacturers of artificial sports surfaces, with many customers all over the world. Our in-house custom designed machinery and own Research and Development centre enables us to meet the international performance standards of a wide range of sports.

Our artificial grass pitches for hockey, tennis and football meet the most rigorous play specifications. We provide the market with high quality systems for both sport and leisure purposes. Together with our partners, we supply innovative and sustainable system solutions, creating an environment in which top performances and relaxation are central and talent can flourish!

In 2009, Edel Grass applied for and was selected by FIFA as a Preferred Producer for the worldwide football turf market. The nomination gives Edel Grass the opportunity to continue to contribute to the improvement of the quality of artificial surfaces. An example of these improvements is the introduction of the TenCate Performance Warranty Concept™. This is a joint development of Edel Grass and its partners TenCate and Oranje-woud Sport with a third party insurance by Allianz. This concept makes it possible for a field owner to get a 5 year FIFA** performance warranty for his football surface. Only resilient shaped yarns with enhanced durability will be used in these tested and certified systems. The first warranty field is installed at FC Breukelen (the Netherlands) and from now on it is possible to get a performance warranty certificate worldwide.

FIFA Preferred Producer for Football Turf

With the 'FIFA Preferred Producer' initiative, FIFA hopes to enforce consistent quality standards for artificial football pitches around the world. Edel Grass also pursues this end and shares in the responsibility for quality assurance. As a Preferred Producer, Edel Grass is expected to demonstrate its expertise in civil engineering, project management and maintenance.



Edel Grass also introduced a revolutionary FIH Global water based pitch for the hockey market; The Triple-T System. The turf system is named after the famous Dutch international and penalty corner specialist Taeke Taekema (Taeke Taekema Turf System). With more than a million polyethylene (PE) monofilaments per m² and a special sub base, the system delivers a perfect playing surface. A performance comparable to the traditional nylon pitches, but distinctly more affordable. The system is also available in a FIH National sand-obscured version. The Triple-T System is the artificial turf hockey pitch raising the game to an even higher level!



best alternative to nature

With our product line of tennis systems, we provide the entire tennis industry with custom-made systems, from amateur recreation up to the top-class pro's. Edel Grass has ITF-certified tennis products for the best tennis performance. Our intensive collaboration with our selected partners puts us in control of the entire process, from design up to installation and maintenance.

Edel Grass also has an extensive range of synthetic turf for landscaping. It is ideal to give gardens, roundabouts, playing fields and other open public spaces a green and natural feel. In addition to our sports product line, we have a landscaping collection which consists six segments.

1. **Lifestyle rugs:** soft and comfortable rugs for inside and outside use;
2. **Playing areas:** a clear and colourful appearance with certified safety specifications;
3. **Golf:** a complete golf collection, from rough to green;
4. **Landscaping:** low maintenance and high quality synthetic turf to make public spaces sustainable greener;
5. **Leisure@home:** a wide variety of synthetic turf solutions for garden, balcony or roof terrace;
6. **Mobile sports systems:** Lock 'n Play puzzle system to transform almost any side into a professional sports pitch.

High quality, affordable and sustainable systems, that is what we bring to table. Our surfaces are installed by a number of specialist companies all over the world. Together we try to reach the same goal: improving the quality of the artificial surfaces!



Please visit our website www.edelgrass.com or contact us for more information.

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Fax: +31 38 425 00 51
E-Mail: info@edelgrass.com
Website: www.edelgrass.com



THE WINN

- **Broad range of adhesives and tapes**
- **Specially formulated for the sports industry**
- **Products you can trust - designed to outperform EN standards**
- **Expert technical support and back up**
- **Worldwide supplier**

SEAMING TAPES FOR ALL CARPET INSTALLATIONS

- **Specialised tapes to meet demanding tensile strengths for certain sports.**
- **Available single or double sided in a variety of grades and sizes.**

PACKAGING TO SUIT YOU

- **Envirostik offer a number of labelling and packaging options to suit your requirements.**
- **Envirostik's Combi-packs are a popular choice as they allow easier storage, easier inventory and easier transport.**

**Whatever your adhesive and tape needs...
Envirostik have got it covered!**

WINNING TEAM

CONTINUOUS INNOVATION
ADHESIVES YOU CAN TRUST

ENVIROSTIK MULTI-PURPOSE

Envirostik's original adhesive, a market favourite, formulated to form a high bond strength whilst remaining easy to use. For bonding all carpets and tapes.



ENVIROSTIK WET-FIX

Developed to allow installation of carpet even when it's cold and wet, with all the original properties of Multi-purpose adhesive built-in, Wet-fix enables your project to continue as planned.



ENVIROSTIK ULTRA-FIX

The latest innovation, a revolutionary adhesive designed for high contact sports installations such as rugby. Benefits from all the properties of Multi-purpose and Wet-fix and brings even higher bond strengths. Constant adhesive consistency at high or low working temperatures.



EnviroStik

WHEN PERFORMANCE MATTERS

Airfield Industrial Estate, Hixon, Stafford, England. ST18 0PF. Tel: +44 (0) 1889 271751 Fax: +44 (0) 1889 271161 www.envirostik.com

GEZOLAN, a great history

GEZOLAN manufactures and supplies EPDM rubber granules for the sports flooring sector from its central European location in Dagmersellen (Switzerland) to all continents, where a lean and technologically advanced production plant and research centre is based.

Our Headquarters occupy a total ground area of 11.000 square meters, from which 6.000 are production facilities under roof, and about 600 square meters are corporate offices and R+D rooms. Two roof-covered outdoor multi-storey warehousing units, provide a storage capacity for almost 8.000 pallets.

GEZOLAN accumulates experience in the rubber business for the sports and leisure industry since 1968. The synergies with the affiliated businesses within our group of companies offer additional access to technology on rubber compounds, thermoplastics, recycling and manufacturing.

Our experience from the early days to the present provided us with a large amount of data and facts records, which enabled us to excel above our closest opponents.

In the late eighties we have questioned the technology used to manufacture EPDM compounds. With a sensational innovation exercise and an important financial investment we did a giant step towards a new manufacturing model, which resulted in a state-of-the-art final product. At the present we still hold a paramount position, being second to none in terms of quality level recognition in the market place.

The way to GEZOFILL

In recent years, back in the late nineties, the artificial turf market initiated its expansion with the named third generation of artificial grass or football turf. Besides the traditional black recycled granules that were used as elastic infill, the market

demanded new alternatives. At that point EPDM manufacturers offered their traditional granules that were being widely used in other sports flooring applications like athletic running tracks, multi-sport areas or children playground safety flooring. GEZOLAN provided to a well-reputed artificial grass manufacturer the EPDM infill that was first installed at the UEFA football pitch in Nyon, Switzerland. This was the turning point for GEZOLAN in the search of a sport specific solution.

As the market was fast growing, a wide range of different demands was rising in the market, from environmental concerns to biomechanical issues or specific playing characteristics requirements. With all the market inputs and following a challenging path, a specific infill for synthetic turf came out early 2003: GEZOFILL LD.

GEZOFILL LD – The product

GEZOFILL LD is a low density foamed EPDM rubber granule, complying with all existing environmental requirements. The first FIFA Recommended pitch installed using GEZOFILL LD as infill was in Kuopio, Finland, in October 2003.

Since Kuopio we have provided GEZOFILL LD in these past seven years to more than 200 facilities worldwide. Our product has been used for almost all major artificial grass manufacturers and in very different climates and conditions. Among others, our product is being used so far in South Africa, Tunisia, Spain, Italy, France, Bulgaria, Turkey, Portugal, Sweden, Austria, Lithuania, Germany, Switzerland, Poland, Russia, Rumania, Syria or the USA.





GEZOFILL LD has recently been chosen as infill in the two secondary pitches at the FIFA Headquarters in Zurich, Switzerland.

GEZOFILL LD provides unique features:

Higher volume / less consumption

GEZOFILL LD has a much lighter apparent density ratio than traditional compact EPDM granules or alternative infill products like TPE, typically exceeding 30% difference. This results in lower product consumption per square meter for the same infill high. As the price per kilogram is similar, the cost savings are important.

Environmental compliance

GEZOFILL LD complies with the most demanding environmental requirements, especially for what concerns to ground water protected areas. Among these, the product complies with all existing standards.

Color possibilities

Besides the standard green, GEZOFILL LD can be manufactured in brown and grey, or in a custom blend of two or all of these colors.

Second life

At the end of life of a facility, GEZOFILL LD can be re-used by blending it with a portion of new infill material.

Moisture retention

The open cells of the granule save moisture at the playing level and result in a better playability and less water consumption, with both environmental and cost saving effects.

Besides the lower heating ratio versus black rubber, this helps to keep the surface temperature cooler.

Engineered vulcanization

We have fine-tuned the vulcanization process in order to simulate the grip behavior of the natural turf at the level of the grass roots. This offers a look alike playing feeling closer to natural turf.

Product guarantee

The best presentation card for GEZOFILL LD is that, unlike most of our opponents, we have an empty quality claim logbook. As of today, not a single issue in terms of product quality or failure has been claimed upon our company or our representatives, and the product continues offering functionality and is being demanded by well-informed customers.

A focused product portfolio

GEZOFLEX®
SWISS MADE EPDM RUBBER GRANULES

GEZOFLEX are EPDM rubber granules for bounded synthetic surfaces, including athletic running tracks, multi-sport areas, children playground safety flooring and ready-made goods as elastic layer rolls or tiles among others. More than 40 years experience converging in a small granule, offering great results.

GEZOFILL®
SWISS MADE INFILL TECHNOLOGY

GEZOFILL is a rubber elastomer granule for its use as elastic infill material, to be used dispersed loose in synthetic turf systems. The low density concept offers additional features and open possibilities to your synthetic turf system.



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E-mail: geral@globalstadium.pt

GPS

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W 8° 30.991'

ITALGREEN REPRESENTATIVE FOR

- Portugal
- Angola
- Cape Verde
- Morocco
- Mozambique

Name:
Global Stadium, Lda.

Location:
Portugal

Core service:
Synthetic Turf Installation

Website:
www.globalstadium.pt



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Grupo-ACA.com

Find us on 



Where do you need us to be.



Italgreen Geofill field installed by **Global Stadium**



JAIME PACHECO, Coach / Int. A - Portugal:

"I did not feel any difference with the best natural turf, neither in terms of the behavior of the ball, nor in terms of physical distress, unlike other synthetics so far experienced. I had had a surgery on my knee and, after realizing the quality of the surface, I felt no fear."

"I have to mention another huge added value of this pitch. When compared with other synthetic where I had played, it is a much cooler surface, essential to comfort and suitability for football practice on hot days." In short, I liked very much the new Bessa synthetic field!"



Álvaro Braga Júnior, Boavista Futebol Clube and Boavista SAD's President

"It's better than most existing natural fields in Liga Sagres." "The Bessa synthetic field has attracted international interest, I already received the visit of close to 60 persons from all over the world."



Sérgio Conceição, Director Desportivo PAOK / Int. A - Portugal

"Most of the Portuguese clubs will win if they bet in synthetic fields with the guaranteed quality of this system. I would not be surprised if they would follow this way. . ."



Carlos Brito, Rio Ave Futebol Clube Coach

"It was for me a pleasant surprise verify the quality of the Bessa Stadium last generation synthetic field installed." "The main team of Rio Ave made two training sessions in the new Bessa field. Despite of the very bad conditions (heavy rain), remained excellent conditions to a good football practice."



Professor Jorge Mendonça, Leixões Sport Club physical trainer

"The confidence that my players felt in this field was very different than in the others."



José Mota, Leixões Sport Club Coach

"... it was a surprise the quality difference between this synthetic and the others. The quality of the turf, the ball behaviour, the ball rebound, braking and acceleration are similar to those observed on natural grass."



Victor Paneira, Boavista F. C. Coach / Int. A - Portugal

"I was completely against synthetic fields but I changed my mind when I started working every day in this one."



Fábio Faria, Rio Ave Futebol Clube Player

"It's not easy for a professional football player overcome the psychological barrier and to admit the quality of a synthetic field. But this one is different. The infill material makes us forget that. I'm sure that, if I had played with my eyes closed, I wouldn't know that I had played in a synthetic field. The new Bessa's field looks like a natural field. But with a good natural field."



José Moreira, Goal-Keeper / Int. A - Portugal

"I'm passionate by your turf since the first time I stepped it. And even having been made surgeries on knees, with your field I have no fear, on the contrary in other fields."

Naturally...
the professional choice!

SAFETY • HEALTH • ENVIRONMENT •
100% GREEN FIELDS



PASSION FOR YOUR GAME

The great fascination of football is its ability both to thrill and inspire. It is a common language spoken by the global population regardless of their differences in background. It offers a magnificent opportunity to unite and re-unite people all over the world.

GreenFields is proud to play an important role in the world of football. We understand the impact of football and therefore are dedicated to product development, have an innovative mind setting and committed to operational excellence while respecting the environment and committing to social responsibility. We strive to offer the best playing conditions worldwide because we are as much fascinated by sports as those millions of fans out there across the globe - simply because we also love the game.

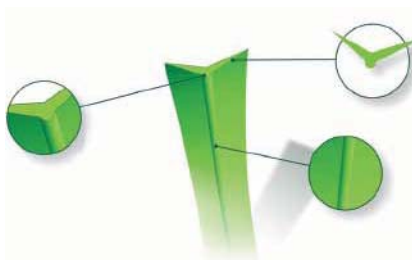
ACTIVE WORLDWIDE

The GreenFields head office and manufacturing facility of 24 000 m² is located in Genemuiden, The Netherlands. This state-of-the-art facility is designed to reduce CO₂ emission and reflects our environmental awareness. With additional production facilities in South Africa, Korea, Algeria and United Arab Emirates and strong alliances with manufacturers in Australia, Russia and North America we are geared to meet the needs of the global synthetic sports turf market.

INNOVATION TODAY FOR TOMORROW

Investing in research and development is not a question as GreenFields is dedicated to the development of sporting surfaces. By focusing on the performance of the synthetic turf system as a total solution GreenFields meets this challenge uncompromisingly and constantly strives to offer real innovations that do make a difference in the playing quality of synthetic turf systems. This is great for the player and perfect for the sport and that is what it is all about...not only today, but also tomorrow.

INSPIRED BY NATURE



Our ultimate goal is to offer a surface that has the potential to be better than natural grass. Synthetic turf should have the look and feel of natural grass. An example of an innovation "inspired by nature" is the V-shaped fibre, replicating the shape of natural grass.

Unlike conventional flat shaped fibres, the v-shaped fibre allows the ball to interact with the fibre as it would with a natural grass surface. The V-shape fibre is constructed very much like a natural blade of grass in that it has a V-shape spine along its length; this provides a structural memory and assists the fibre in remaining vertical. The football then has the ability to sit on top of the fibre providing not only a natural ball roll but allows the player, when kicking the ball, to gain enough leverage underneath and provide truly natural playability characteristics.

FOR THE GOOD OF THE PLAYERS

With "playing quality for all" as our core objective we must ascertain and act on behalf of the players' as well as the customers' needs and desires. We are refusing to rely on the presumptuous longevity and quality of our products. Therefore the use of fundamental research, testing and development, practical oriented studies with universities, international exchange of experience, strategic alliances, and constant dialogue with customers are indispensable for us moving forward.

GREEN FIELDS MADE BY GREENFIELDS

"Green" is a premium objective for research and development. The most contested aspect of football

synthetic surfaces is its potential impact on the environment. It is the responsibility of GreenFields and its suppliers to ensure that the supplied products are safe for people and the environment.

GreenFields has recognized the importance of taking leadership in this domain. That is why we have focused our research and development on the application of innovative and environmentally friendly production solutions related to sustainable product development inspired by nature. As a consequence we have developed a Green Generation Turf - an environmental friendly synthetic turf that is 100% recyclable.

FIFA PREFERRED PRODUCER FOR FOOTBALL TURF

GreenFields has been awarded the FIFA Preferred Producer status as one of the first producers in the synthetic turf industry. This acknowledges the sustained efforts of GreenFields to offer the game and the football players the best playing conditions worldwide. The FIFA quality concept for synthetic football turf was developed to standardize the quality of football pitches and to guarantee the safety of football players.



Hugo de Vries, managing director of GreenFields: "We see the FIFA Preferred Producer Program as a decisive step for the market and the industry in general and especially for the development of GreenFields. Sustainability is the key issue these days. The FIFA concept fits our vision and philosophy to create perfect durable playing conditions all over the world. Accordingly we have continuously adapted our organization on all levels."



GreenFields Sports Turf Systems
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8281 JX Genemuiden
The Netherlands
T: +31 (0)38 337 20 10
www.greenfields.eu

ISA Sport

Monitoring sports venue quality

ISA Sport has been ensuring the high quality, safety and durability of sports facilities for more than 50 years. The testing institute was founded by the Dutch Olympic Committee (NOC*NSF) and is a major global player when it comes to the independent testing and certification of synthetic sports surfaces and the materials and constructions used. In addition, ISA Sport provides technological advice and support, for example on the development and implementation of standards for a complete range of sports facilities.



ISA Sport is based in the Netherlands, at the Dutch National Sports Centre 'Papendal', from where dedicated business units look after the Dutch and international markets. From their offices in Oslo, ISA Sport Nordic serves the Scandinavian countries, whilst agents and ISA Sport offices in Belgium, Turkey, India, Japan, the United States and Thailand provide support in their local markets. In order to further improve the level of service offered to customers, ISA Sport continues to expand and professionalise this network of international representatives.

Certification

The main service ISA Sport provides globally is the independent certification of sports pitches, and the materials and constructions used. In the high-tech, state-of-the-art laboratory, specialised employees test constructions on their materials and the technical aspects related to the specific sport. After approval, these constructions can be installed on site. Subsequently, once a pitch has been completed, ISA Sport inspectors

carry out field tests. After a construction or pitch has passed inspection, a certificate is issued (for example by FIFA, in the case of football turf).

ISA Sport is accredited by international sports organisations such as FIFA, ITF, IAAF, FIH and IRB. Inspection procedures are ISO 9001 certified, and the quality of test results is guaranteed by an ISO 17025 certification.

Standardisation

In general, there is a growing emphasis on high quality, safe and durable sports facilities. As a result, an increasing number of governments, sports associations and producers are keen to develop and introduce quality systems. As a centre of expertise for standardisation and certification, ISA Sport sits on various international committees and maintains extensive contact with sports associations and vendors. This know-how, combined with practical experience, can be translated into tailor-made recommendations for local standardisation and quality monitoring procedures.

References

- Development and implementation of quality systems for tennis courts, as well as football, hockey and other sports pitches in the Netherlands
- Development and implementation of a quality system for football pitches in Scandinavia
- Development and supply of state-of-the-art test equipment
- Projects:

Fanny Blankers Koen Stadium	Hengelo (The Netherlands)	IAAF standard
Luzhniki Olympic Stadium	Moscow (Russia)	FIFA standard
Madinat 'Isa Stadium	Isa Town (Bahrain)	FIFA standard
Qwest Field	Seattle (USA)	FIFA standard



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Instituut voor Sportaccommodaties B.V.

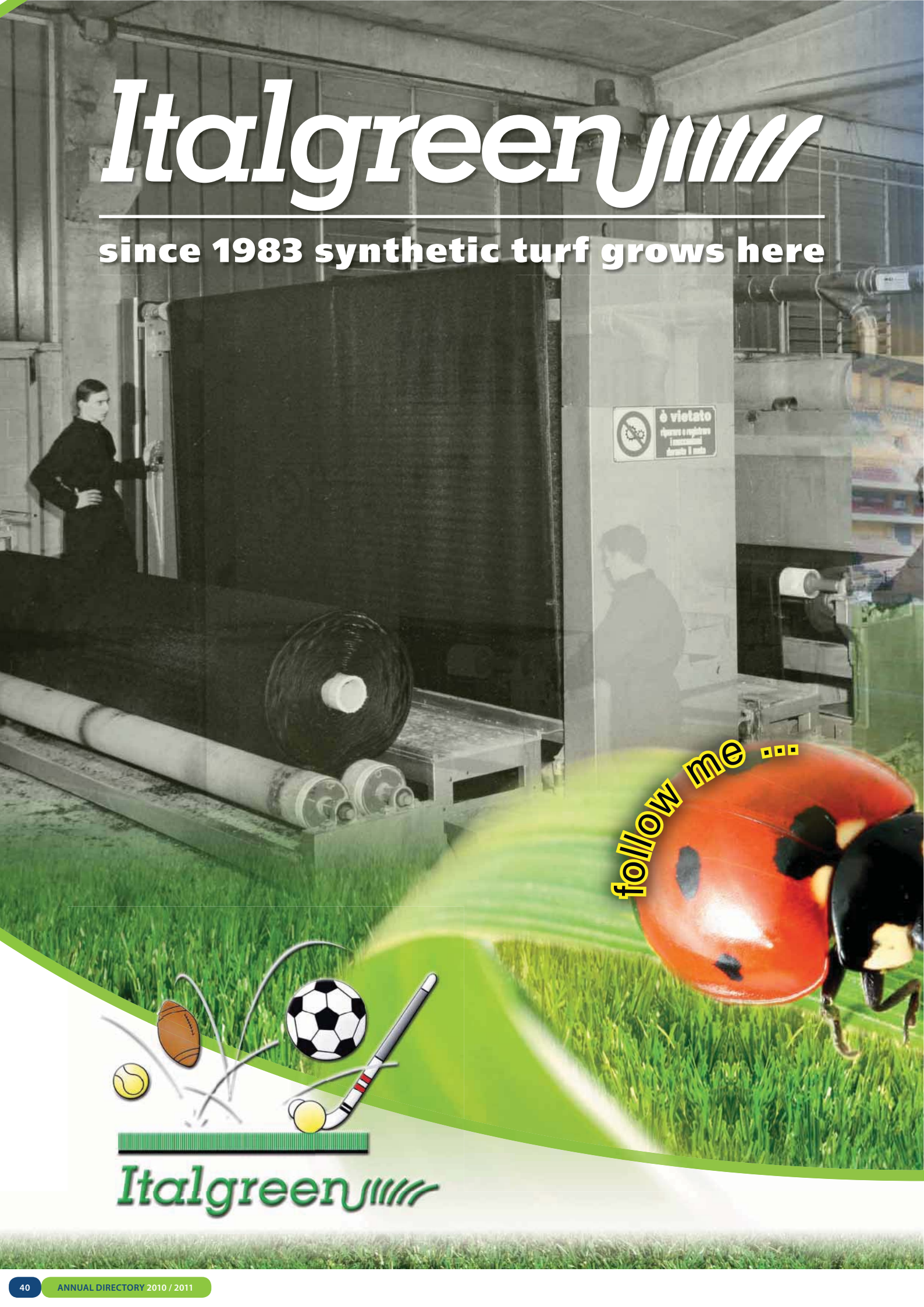
Papendallaan 7 · P.O. Box 721 · 6800 AS Arnhem · The Netherlands
 Phone +31 (0)26 4834637 · Fax +31 (0)26 4834630 · E-mail: info@isa-sport.com



Instituut voor
 Sportaccommodaties

Italgreen

since 1983 synthetic turf grows here



follow me 



Italgreen

Bessa Stadium, Porto – Portugal
62 Double T Geofill Leonardo



FILLED WITH GEOFILL

flying to
the best field on earth

Italgreen 

Via Crusnigo, 11 - 24030 Villa d'Adda - BG (ITALY)
Tel +39 035 784178 - Fax +39 035 784144
info: www.italgreen.it - e_mail: info@italgreen.it

LABOSPORT

BACKGROUND

Created in 1993, Labosport is a private laboratory specialized in control and analysis of sports and recreational surfaces. It has grown significantly to become a leading player in the field, currently owning subsidiaries in UK, Italy, Canada and China. It is represented, in addition in Belgium, Turkey, Africa.

Labosport is member, among others, of ESTO, STC (Synthetic Turf Council) and ISSS (International Association for Sports Surfaces Sciences) as well as SAPCA, F2S...

OUR VISION

To help reach a better quality of sports and recreational equipments, especially concerning the safety, durability and playing performances criteria.

To perform the adequate inspections in order to check conformity to set standards such as governing bodies and sport federations.

OUR MISSION

We perform lab testing and in-situ field inspections not only on synthetic turf, but also on any type of surface.

- Lab testing allows accrediting specific surface material.
- In-situ inspection allows to accredit fields.

Tests include:

- Ball roll, Vertical ball rebound, Angle ball rebound, shock absorption, deformation, sliding...
- HIC (Head injury criteria), Toxicology, Ageing...

The measurements are then compared to the threshold put in place by the various sports federations.

Because we found-out that the lower layers of the ground also play an essential role in the field performances, we also perform geo-technical analyses:

- In the lab (Los Angeles, Micro-Deval, Méthylene blue test...)
- On site (evenness, drainage capacity, load bearing capacity, concrete slab water content...)

We also perform expert checks on technical specifications, before they are integrated in call for tenders.

OUR ACCREDITATIONS

International: FIFA, FIH, IRB, IAAF, ITF, FIBA... and national: FFF, FFT, FFR, LND, RFU...

RESEARCH AND DEVELOPMENT

Because we strive to improve quality of the products, we maintain a R&D department, fully dedicated to improve testing method as well as testing equipment.

Some examples of LABOSPORT's achievement.

- Invention of the LISPORT, now a reference ageing method
- Invention of the SECURISPORT, now a reference abrasion / sliding testing method,
- Development of slipperiness measuring equipment for the (ITF).
- Synthetic turf aging evaluation and characterization by infrared spectrometer,
- Study on fire resistance of synthetic grass
- ... And much more to come

LABOSPORT

sports surface testing, research and analysis

OUR CONTACTS

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LABOSPORT

sports surface testing, research and analysis



**the game is
yours,
the solution is
ours !**

Lano Sports, leader in artificial grass for over 20 years, is a privately owned family company and bases its reputation on quality, service and product innovation.

Broad product range

A wide variety of applications.



**FOOTBALL
RUGBY**



**HOCKEY
GOLF**



**TENNIS
MULTISPORTS**



**LANDSCAPING
LEISURE**

Commitment

Reliability, quality and an outstanding service !

Day in day out, our commitment to clients is reliability, quality and outstanding service. To guarantee it, we deliver a tailor-made solution that is the product of a team effort gathering our in house R&D department, production & quality people, a customer focused sales and sales support. We do not just deliver products. The long term customer relations are the true testimony of this commitment!

DNA

State of the art

20 years of experience, knowledge, product innovation and procedures enable Lano Sports to exceed the most demanding technical and performance specifications required by the various sports and their federations. It is a relentless effort grown straight out of our DNA !

Passion

Humanity

We are passionate about sports and we care about humanity. That is the reason why day to day, we improve our technology to preserve the environment. Continual review and analysis further reduces energy consumption and waste. Still we offer our clients to play sports in the most exciting but cost-effective way. We view it as a long-term commitment, not as a fashion thing !

Give us a call and we will help you to win your game.



artificial grass solutions

SPIRIT OF TRADITION, FORCE OF INNOVATION

Limonta Sport (www.limontasport.com) manufactures and distributes synthetic turf since 1979, bringing the experience and the tradition of the Limonta Group, founded in Italy more than 100 years ago. Limonta Sport has always had an eye open for new opportunities that reflect the company's belief in quality solutions, and now more than ever it keeps running towards innovation that provides top quality services.

Limonta Sport is committed to improvements and innovation, due to its fully equipped , in-house R&D laboratory and the continuous collaboration with selected partners.

From these combined efforts, Limonta Sport is able to provide the best systems in the market for **outdoor** sport, **indoor** and **landscaping**, with a range of products born to assist at best all the needs of our consumer.

SOCCEPRO : full range of dedicated third and fourth generation Football Turf systems that meet with most leading international Standards.

newgrass : certified range of shorter pile height synthetic turf products for tennis, hockey, handball, multi-use, korfbal and more.

Vera LAWN : landscaping solution with unique natural looks.

LIMONTA SPORT : P.V.C. products for indoor sports.

On October 2009, FIFA confirmed Limonta Sport as a **FIFA PREFERRED PRODUCER** for Football Turf, underlining the leading position of the company in the International Market.

FIFA has done a strict selection among the FIFA licensees in order to select the companies which comply with the highest standards in terms of:

- production process
- quality control
- product quality
- installation knowledge
- sub-base works skills
- organization
- references
- experience



Limonta Sport keeps on working to raise the quality to the next level, installing pitches all over the world according to **FIFA Quality Concept**.



Astana Arena – Astana, Kazakhstan



Estadio Figueras – Figueras, Spain



Stadio di Teramo - Teramo, Italy

Limonta Sport is present worldwide, with branches and partners in all the major countries.

As an ISO 9001 certified company, Limonta Sport carefully screens all initiatives based on **sustainability**.

The development of greener backing, usage of environmentally - friendly yarn and the creation of **InfillPro Geo**, a 100% natural organic infill, are important initiatives showing Limonta Sport specific attention to the environment.



Limonta Sport spa

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Sports construction specialists

M.Cup Ltd. is a specialized sport surfacing company supplying and installing a wide range of sport surfaces for all types of sport activities.

With over 20 years of experience in the field of design, construction, installation, maintenance and renovation of sport surfaces, M.Cup is perfectly placed to meet sporting and athletic needs.

M.Cup assists sport directors, project architects, school boards, municipalities, sport clubs, and all end users to choose the right product for their unique facility requirements while ensuring a world class installation, from the planning phase to project completion.

Experienced and well trained installation teams can ensure that any new synthetic sports surface is installed correctly. Whether it is a soccer pitch, hockey pitch, athletic track, tennis court, squash court, golf or even multi-sport area, we have well equipped personnel who can deliver the highest standards on the market.

Our many projects completed successfully and in the highest quality led us to be selected by Slovak Government as an approved installer for different national projects and events for youth and sport.

References of more than 550 sport surface installations, represent the area of about 600,000 square meters installed in Slovakia as well as abroad.



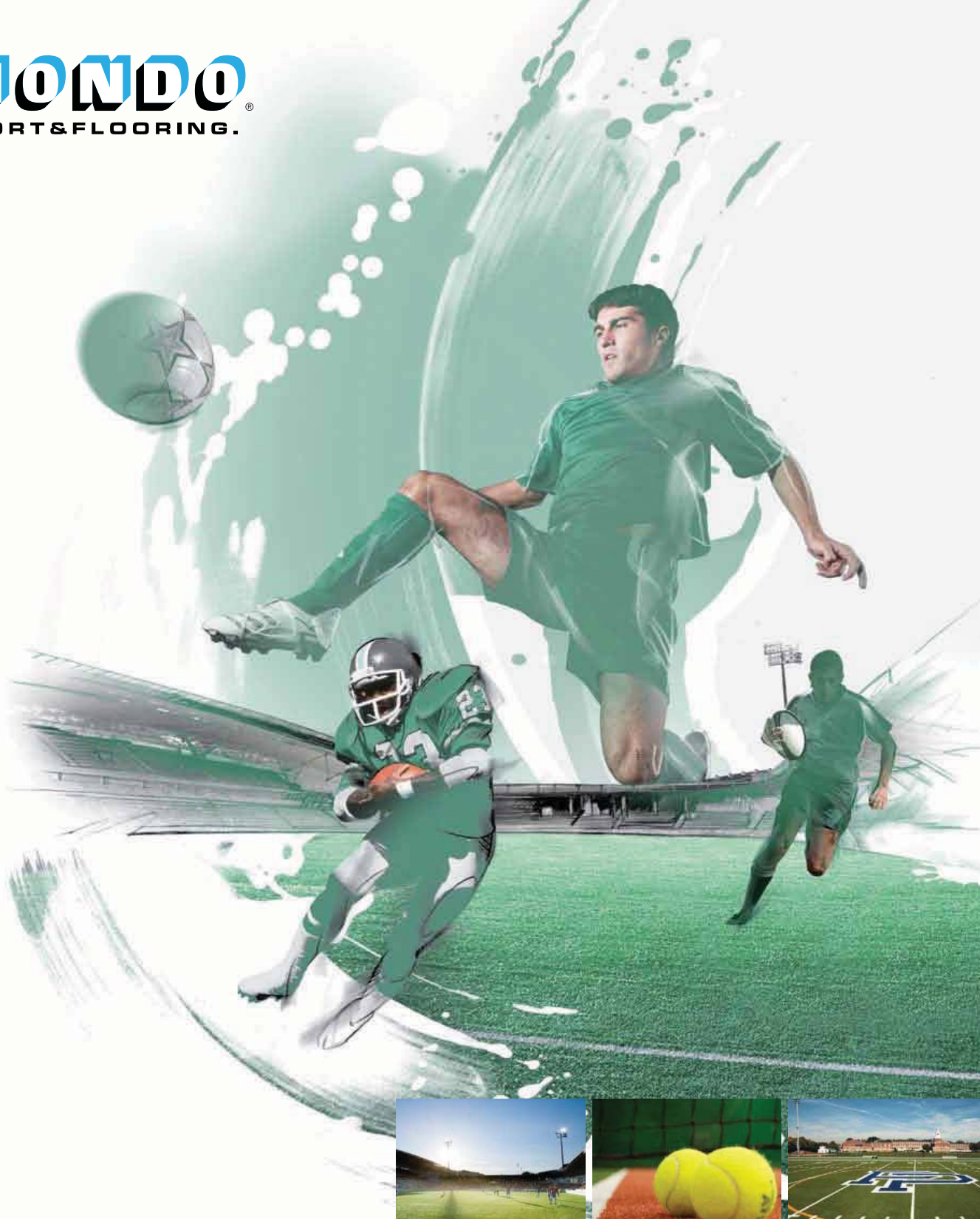
M.Cup offers:

- complete design and construction services
- choice of colours and types for the surface according to the preferred use
- approved installations undertaken by highly skilled installation crews
- use of the latest technology and machinery to achieve the exact levels required
- safe sporting facilities with the highest standards and performance
- floodlighting and fencing suitable for recreational play and championship standard
- wide range of outdoor and indoor sport equipment
- after care maintenance for all sport surfaces



Contact:

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email: mcup@mcup.sk



WHERE THE GAMES
COME TO PLAY



MONDO SPORT.TURF.

www.mondoworldwide.com

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MONDO UK LTD.
cjack@mondosport.co.uk



Founding Member
European Synthetic Turf
Organisation

The Mondo Group

The MONDO Group is an international organisation employing more than 1,500 staff at 11 production sites, and markets its products in over 196 countries. Known above all for its athletics tracks and artificial turf, MONDO has been selected **10 times running** as **Official Supplier of the Olympic Games**, from the Montreal games in 1976 to the London games in 2012.

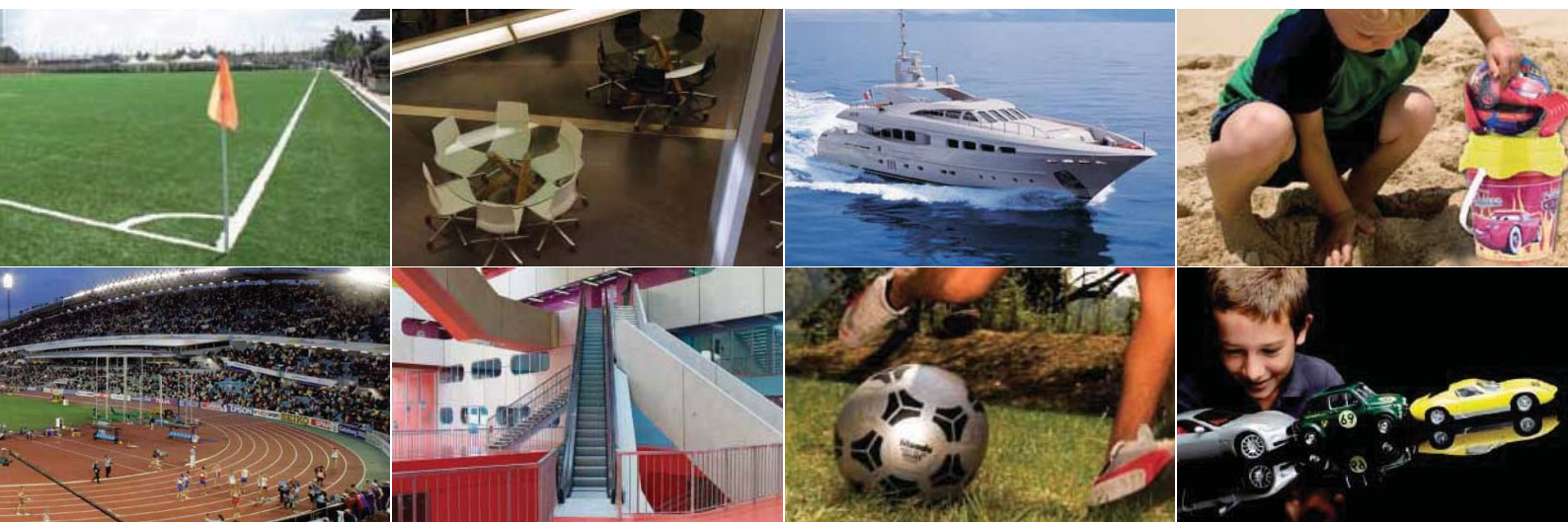
Prestigious installations include the **Sun Angel Stadium** in the United States, the **Norköpping Arena** in Sweden and artificial turf at the **Juventus Training Centre in Vinovo**, the **Finnair Stadium in Helsinki**, the **Bosön Stadium in Stockholm** and the **Rugby Colorno** field in Italy.

MONDO also specialises in the manufacture of top quality commercial and industrial flooring for transport, airports, hospitals, universities, schools and shopping centres. Every day passengers on the **"Pendolino"**, **"Cisalpino"**, **"Minuetto"** and Narita Express trains, and on the subways of **New York, London, Rome and Turin**, patients at the hospitals of **Valdichiana Est** and Tampa **General Hospital** and visitors to the **Deusto Library** in Bilbao walk on MONDO flooring.

The company is also a well-established manufacturer of outdoor toys and **balls** (producing 450,000 a day) for professional and amateur use.

In 2006, MONDOMOTORS was established, soon becoming a leading brand of model cars (die cast models).

MONDO also designs and manufactures prestigious motor yachts at the boatyards of MondoMarine division.



Mondo S.p.A.

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Fax +39 0173 23 24 00

www.mondoworldwide.com

 **MONDO**

Barmag – the pacemaker for the manmade fiber industry for the last 88 years. On March 27, 1922 ‘**Barmer Maschinenfabrik Aktiengesellschaft**’, in short **Barmag**, was founded in Wuppertal Barmen / Germany.

In 1958 Barmag started with the manufacture of extruders. This was the starting shot for a new era in manmade fiber production including filament spinning, slit film extrusion and monofilament extrusion.

Leading producers of artificial grass yarns use Barmag equipment since over 20 years. Since the break-through with Polyethylene grass yarns around 10 years ago this market has become an important sector for Barmag equipment.

Contact: web: www.barmag.oerlikontextile.com
 e-mail: klaus.hufschmidt@oerlikon.com
 phone: +49 371 2388252
 mobile: +49 170 7853228

Slit film tape yarn
Model FB9-1400-WS/HT-Plus

with revolutionary fibrillating technology to produce monofilament-like fibrillated grass yarns with greater thickness and higher elongation than before.



Winders for single end winding
Model ATW300LGT



monofilament multi end yarn
model MARY-LINE FB9

for **mono-colour** yarns,
for **bi-colour** yarns or
for **bi-component** yarns

with excellent straightness, with
lowest shrinkage



Winders for multi-end winding
Model WUFF8



twisting
model DD2000GTE
high speed two-for-one twister

for very even twist in slippery PE grass yarns



Spiral wrapping
off-line as re-winding and assembly winding, or
in-line with the monofilament extrusion line to replace twisting



Texturing

Off-line as re-winding and assembly winding and
mixing of flat and textured monofilaments in one
yarn

or

In-line with the monofilament extrusion line





Over 40 years of experience

Polytan has been installing sports surfaces all over the world for 40 years. Polytan takes full responsibility for everything from production and marketing to installation. Continuous development work, quality assurance and in-house installation teams guarantee excellent product standards and professional surface installation. The accompanying service extends the life of the surfaces. Polytan installed 1000 miniature pitches in its role as partner to the German FA and is the global leader in the number of FIFA Recommended 2 Star certifications awarded to its products.



Complete range of services

The Polytan product portfolio covers the full range of services for sports facilities. It includes the delivery and installation of classic synthetic turf and filled synthetic turf systems, elastic layers for synthetic turf, synthetic surfaces for athletics tracks and all-weather pitches as well as lining, repair and cleaning services for sports surfaces.



Production and service from a single source

Another benefit for customers is the fact that all Polytan products are manufactured in the company's own production plant. This is combined with a complete range of site services from the installation of the elastic layers to the installation of the surface by the company's own installation teams. This gives Polytan complete quality control responsibility from the raw material to the finished sport surface.



Competence and expertise in sport

Polytan's range of products and services is tailored to the specific requirements of various sports and the demands of each of them. The customer can select the ideal product to suit his needs. The care and maintenance of the products for their various applications ensures that these products retain their high quality at reasonable cost.

A wide range of certificates which comply with the standards of all the major national and international sports associations such as FIFA, IAAF, UEFA, FIH, EN, DIN and RAL has been awarded to the surfaces.

Polytan's product / service portfolio



- Football turf for stadium installations, training grounds and local authority facilities
- Synthetic turf for hockey and other ball sports
- Synthetic surfaces for professional athletics tracks and training centres
- Synthetic surfaces for all-weather facilities, multi-function pitches and safety surfaces
- Advice, installation and service for synthetic turf and synthetic surfaces



Global leader in synthetic turf

Continuous development work for synthetic turf target groups, integrated production from the fibre to the turf and quality assurance resulting from our in-house installation service are all essential components for improving existing turf systems.



Core skills in football turf

Polytan demonstrates its core skills in synthetic turf for football by its clear product focus on this sport and by offering a complete range of services from development to installation. Both the large number of certified turf systems which have been certified to FIFA standards and the installations the company has completed for clubs and local authorities provide impressive evidence of this. This gives the owners the safety of knowing that they are investing in a long term, reliable system whilst users know that they are playing on a superb synthetic turf playing surface.



Global leader in FIFA Recommended 2 Star certifications

Polytan has played a dominant role in FIFA Recommended 2 Star certificates since the introduction of this quality concept for synthetic turf for professional use by FIFA in July 2005 and now has more certified installations than any other supplier in the world. This sustained success is the result of the company's strict quality policy and customer focus which helps to ensure that users enjoy excellent usage features in the long term.

First choice for football stadium and academy installations

Many professional stadia are already fitted with Polytan football turf. Naturally all these turf products have been awarded FIFA Recommended 2 Star certification. Whether it is for Stade de Suisse, Dubai, Morocco or England, for football academies or sporting centres of excellence, Polytan football turf is the first choice all over the world.



Company location / Polytan headquarters



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RADICI PIETRO INDUSTRIES & BRANDS S.p.A.



OFFICIAL SPONSOR

The artificial grass Sit-in SPORT is born from the perfect synergy between the different industrial realities of a big textile group (Miro Radici Family of Companies), since years involved in the textile world.

Being a reference in our field gives us a further courage to invest more in research and development to offer always the best quality and the best service and our target is to assist professionally all jobs of all sizes.

RADICI PIETRO INDUSTRIES & BRANDS S.p.A. follow always a quality policy, environmental awareness, use of alternative energy for the productions, as attested by ISO 9001 and ISO 14000 certifications.

Sit-in SPORT, with its own laboratories, check and analyze all the production process cycle according to the most updated rules for quality and security.

The high production standards has led to certification of the artificial grass Sit-in SPORT by the most important sport federations, both italian and foreign.

Sit-in SPORT surfaces satisfy the strict technical and performing regulations according to FIFA, LND, ITF, IRB, XP P90-112 rules.

Nowadays Sit-in SPORT, the artificial grass of last generation, offers a wide range of high quality products: for each sport the surface is studied and realized to guarantee the best performance.

Sit-in SPORT, thanks to the experience in its own field, invest significant resources to the research and the development of innovative surfaces for the sport world, both professional and amateur, in order to guarantee high reliability and performance for longtime.

Sit-in SPORT OUTDOOR - *GRASS & LANDSCAPE* offers a range of products specifically engineered for residential, landscape, urban and decoration of the highest level.

Our strong sport background and the development of highly innovative fibres, guarantee that the performance and aesthetics of our OUTDOOR - *GRASS & LANDSCAPE* range are closer to natural grass, while retaining all the convenience of artificial produce.

RADICI PIETRO
INDUSTRIES & BRANDS S.p.A.



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re-bounce® by Recticel

Recticel is a worldwide polyurethane foam manufacturing group with over 120 plants in 27 countries in Europe, the USA and Asia. With a turnover of EUR 1,555 million in 2008.

Under the motto "a passion for comfort", Recticel contributes to your everyday comfort with its products, which include foam for seating and mattresses, acoustic and thermal insulation materials, interiors for cars and an extensive range of foam products for industrial and domestic applications. As a company, Recticel can rely on outstanding expertise and technology when it comes to polyurethane foam, in terms of both materials and production processes. In addition, Recticel attaches great importance to innovation and technological progress. The Group's various products are used and processed in ever growing numbers of new and existing applications. As an organisation, Recticel takes its responsibilities towards the community seriously, emphasising quality, health and safety and environmental awareness. Examples of this are: the subscription of the internationally recognised Responsible Care Global Charter, subscription to the product safety standards under the CertiPur label, Recticel Group Safety, Health & Environment Manual, ISO quality certification for different plants within the Group.

Recticel and Composite Foams: Getting the best out of every little piece of foam.

re-bounce® is the brand name of Recticel Composite foams and is produced using prime quality trim foam from blocks. The trim foam is processed into small flakes and mixed with bonding additives. This compound is then compressed to a defined density in a mould to form either a block or cylinder shape.

The cylinder or block is then cut into rolls, sheets or any customer specified dimensions. Recticel has many years of experience in this process throughout Europe.

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composite
foams


RECTICEL

re-bounce® outdoor
Shockpads underneath artificial grass. Football, rugby, hockey, golf and many other sports.



All sports, one name, re-bounce®

re-bounce® is the brand for all sports products manufactured by Recticel

The combination of re-bounce® shockpads with an artificial surface produces a hard-wearing sport surfaces with excellent sports technical properties, suitable for both outdoor and indoor use. re-bounce® shockpads offer superior, long-term performance, meeting all the criteria of the most stringent specifications. Supplied in rolls tailored to the width of the field, re-bounce® can simply be rolled with ease, saving time on installation.

re-bounce® is also the trademark of a complete range of impact absorbing and protection products

Based on the world-renowned Recticel Safeguard® motor sport crash barriers, re-bounce® has developed a range of protective equipment for Rugby, Martial Arts and other contact sports. The products include Rugby Tackle Bags and Hit Shields, Martial Arts Kick Pads, Post Protectors for Rugby and Netball and Basketball Backboard Protectors.

International re-bounce® team

Recticel N.V.

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Fax : +32 (0) 9 369 64 99

www.re-bounce.com

info@re-bounce.com



re-bounce® equipment
Rugby tackle bags, mats designed for martial art and gymnastics, kickpads, post protectors for rugby and netball and basketball backboard protectors.

re-bounce® indoor
The ideal sub base for each sports floor, contributes to technical performances of the whole system.



Sports and re-bounce®, the perfect match!

Regional re-bounce® teams in Belgium, The Netherlands, UK, Sweden, Finland, Germany, France, Italy, Spain, Greece and the USA.

re-bounce®



Saltex Group Oy – for Precise Action

Saltex Oy is a Finnish dynamic and strongly internationalizing family enterprise with long traditions in the textile industry. Our product range includes high quality artificial grass for sports and landscaping purposes and we also supply and install athletics track surfaces.

Established in 1991, Saltex has rapidly grown into a multi-specialist. Today we are an internationally recognized company and one the very few in the world that have formal qualification for the FIFA Artificial Turf License. Our guiding principles are reliability, fair play and continuous development.

To guarantee the best quality we only co-operate with the leading and most experienced raw material suppliers in the industry. All our products are manufactured at our entirely modernised factory in Alajärvi, Southern Ostrobothnia in Finland, by our highly qualified staff. Utilising cutting edge technology has enabled us to shorten our lead times and to optimize our production efficiency, accuracy and flexibility.

High quality products, conscientious customer service and close co-operation with our suppliers form the foundation of our activity. Continuous quality control and active R&D are essential for Saltex. We participate actively in international development projects of the industry and are also a founding member of ESTO, the European Synthetic Turf Organization. Thanks to strong professionalism, long traditions and continuous development work, we are one of the forerunners in our industry.

Subsidiaries of Saltex Oy:

- STX Sweden AB, Sweden
- Saltex AS, Norway
- Saltex Europa, Poland
- Sal-tex Ltd, Russia

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 www.saltex.fi



Quality - The Key Factor of Our Operations

Saltex Group Oy is a successful international company and the high quality of our operations and products is a key factor for us. Quality development has been systematically realised ever since the establishing of the company. Saltex Group Oy has obtained the ISO 9001:2008 -standard and our quality system meets the standard's requirements. Quality development is implemented at all levels and in all operations of the company.

To enhance the user friendliness of our products we constantly develop and test different grass qualities and systems in our own test laboratory, which is equipped for testing all the requirements set for artificial turfs, such as: Resistance to UV, durability (Lisport) and tensile strength. We keep a close eye on the trends in the industry and every year we take in to production new grass qualities. Our testing equipment can gather information on for example comparing different methods of maintenance and how the infill materials behave over time. Saltex also uses a 15-meter-long Lisport test machine, which gives a detailed description on the wear of different artificial grass qualities.

Our artificial grass qualities have been tested according to FIFA and several other international and national standards. Our football grass qualities have passed FIFA Star 1 and Star 2 tests.

Saltex and Our Environment

Green values are important to Saltex and we aim at developing products and methods that guarantee a greener environment, also for tomorrow! Constant quality control and development work are an important part of our business activity. Saltex Oy participates actively in the industry's international development circles, whose goal is to find more ecological and sustainable solutions while maintaining high quality.

We believe it's our responsibility to protect our environment and to offer products that are safe from raw materials to recycling. Sustainable development is a key factor for us and we want to offer service for our products during their whole life span.

With the development of the artificial grass industry, more environmental friendly raw materials that reduce energy- and water consumption have arrived on the market. This

is extremely important especially in many warm countries where water consumption is strictly regulated. The rubber granules used in our fields are also carefully chosen and meet the environmental standard DINT18035-7.

Core Products/Services of the Company:

The football playing season is now longer than before and in many localities football is a year-round activity. The biggest challenge in the northern climate is to have a high quality playing surface for as many players as possible, under varied circumstances. Artificial grass offers a functioning solution for varied conditions. In order to keep the field frost free all year round, it is also possible to install a heating system under the field.

Our artificial grass product range includes the following qualities among others:

- MFP • XTM • PE • MFQ • Interlock • Artificial grass for landscaping

Fieldcad - Field Drawing Program

Saltex has developed FieldCad, an Internet-based drawing program, with which our customers can simulate a drawing of their field before it goes to production. FieldCad is an AutoCAD -based program with which you can determine the field, e.g. its size, limits etc. When the drawing is finished, our staff transfers the field from FieldCad straight to production.

Fieldman - A Unique Field Testing Equipment from Saltex

Saltex Oy has developed a device for measuring fields' resilience, stability and recovery properties: Fieldman. The maintenance staff of an artificial grass field can carry out the testing; no specialized staff is needed. Saltex Oy is the only artificial grass manufacturer that offers such a device to the maintenance people of the fields. The test results are reported through an Internet-based maintenance book to Saltex's database, which can also follow the field's development and behaviour and anticipate necessary actions.

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Machines for the World of Sports – Made in Germany

Since 1975 SMG has been dealing with the development of modern machinery for the installation of synthetic surfaces in the sports industry. Also for the maintenance of artificial turf or carpets with granule infilling SMG has already presented the world's first innovations since the 80s. For about 35 years SMG has been offering a unique range of machinery.

As a pioneer in the special sector „synthetic sports surfaces and artificial turf“ SMG disposes of re-cognized competence and experience since decades. Ask us - we know what is possible.

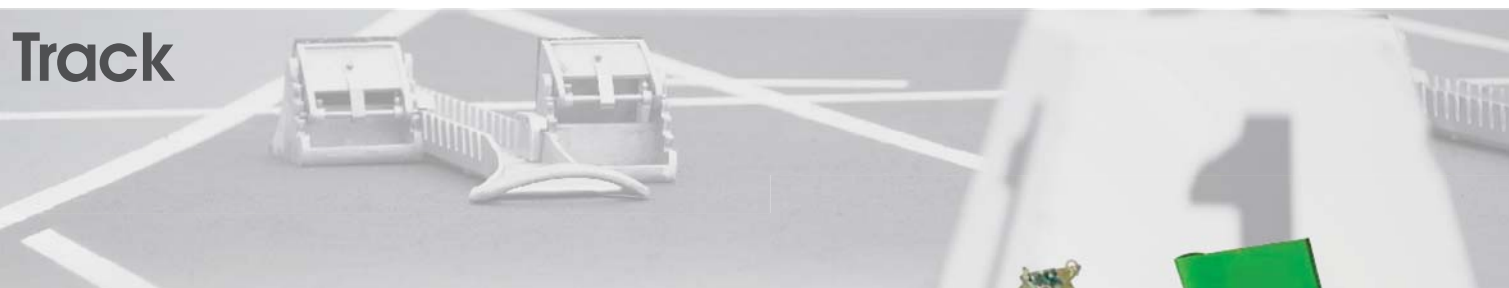
SMG develops and manufactures machines for the installation and maintenance of synthetic sports surfaces and artificial turf pitches. On a total area of 6.000 square meters our company produces solutions which are based on the market needs and easy to operate, powerful and approved since more than 35 years all over the world.

From the beginnings till today our quality assurance ends in „Made in Germany“.

Customers favour us - not only because we always offer the best possible technical solution. It is a particular concern of our family business that the human component in the business is not being missed out. Therefore we are proud of the commitment and dedication of our competent staff, proud of our customers' loyalty and the reliability of our sales and service staff. Whether in developing and manufacturing a product, at the time of delivery and instruction or providing of consulting/service features: You can always count on SMG.



Track



Field



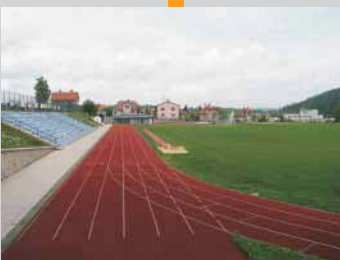
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www.smg-gmbh.de



passion for sports grounds

SPORT CONSTRUCTIONS PLANT



you can count on us

you can count on us

for small and great victories

Construction and reconstruction of athletic centres

artificial polyurethane surfaces certified by IAAF
athletic equipment

Construction and reconstruction of school and multi-purpose sport premises

artificial polyurethane surfaces
synthetic turfs
sport equipment

Construction and reconstruction of football complexes

synthetic turfs of 3rd generation certified by FIFA and UEFA
natural turfs, irrigation systems
equipment of football complexes

Construction and reconstruction of tennis complexes

artificial polyurethane surfaces
synthetic turfs certified by ITF
acrylate surfaces certified by ITF
equipment of tennis complexes

Construction and reconstruction of sport surfaces of gyms and sport halls

soft-wood board flooring on flexible grating (massive and glued) certified by FIBA
polyurethane cast surfaces on flexible base or wooden grating certified by FIBA
surfaces on PVC and polyurethane basis
equipment of gyms and sport halls

Construction and reconstruction of children playgrounds

game and play elements for children
impact flexible surfaces meeting EN and ČSN standards

Construction and reconstruction of ski complexes

artificial ski slopes
ski lifts



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FieldTurf is the category name for turf within Tarkett Sports, the sports division of the Tarkett Group. Tarkett Sports is the largest entity in the sports and landscape surfacing industries. Constant innovation and extensive research programs make today FieldTurf's 3rd generation artificial turf the preferred choice for many prestigious stadium facilities worldwide.

The company established its reputation with both the FieldTurf and the Prestige range of synthetic turf products designed for soccer, rugby and American football at all levels of the game - right up to the highest competitive level. The company also supplies for landscaping and has a complete range of tennis and golf surfaces.

With technical expertise and manufacturing plants around the world, the company produces a far-reaching range of artificial turf, designed to meet all various needs and standards (FIFA, IRB, FIH, ITF, etc).

ARTIFICIAL TURF

Having invented and developed the first systems called the third generation of artificial turf, FieldTurf has more than 5,000 installations worldwide.

The quality of the systems developed by FieldTurf is acknowledged by FIFA, UEFA and national federations among others. On October 9, 2009 the Russian and German national football teams met at Luzhniki Stadium in Moscow, Russia, for a 2010 World Cup Qualifier.

This reflects the vote of confidence given to FieldTurf by the professional community, both in Europe with many of the best of teams training on FieldTurf, and in North America, with most of the NFL teams playing official games on FieldTurf pitches.

SUSTAINABILITY: AN EVERYDAY PRACTICE, NOT JUST AN IDEA

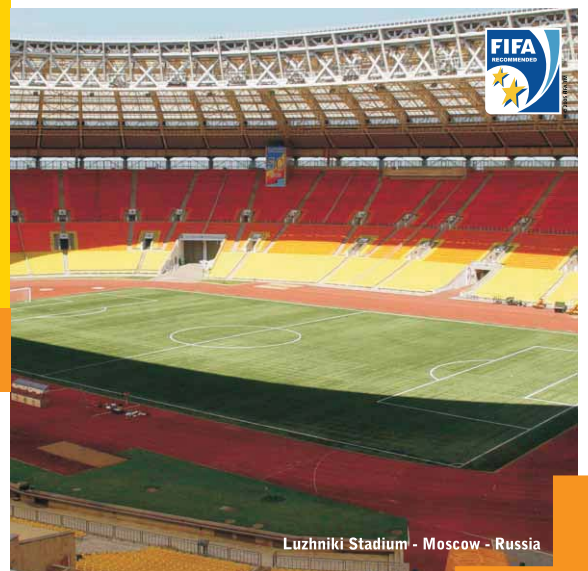
Every day Fieldturf comes to work trying to build a better surface - a turf that enables their customers to balance the impact on the environment, their people and their budgets, by doing four things: using better materials, consuming less resources, creating people-friendly spaces, and recovering products at the end of their lifecycle.

All FieldTurf surfaces are developed, produced and installed with a focus on sustainability and a commitment to protecting the environment, providing additional LEED contribution opportunities for customers.

DEDICATION TO INNOVATION

Research and innovation is the key to FieldTurf's ongoing development of surfaces that provide higher levels of performance and safety and even better sensations for users. In 2009, FieldTurf entered two research programs, promoting the development of quality turf:

- Penn State University (US) and FieldTurf partnered to develop the world's first facility dedicated to sports surface research, with a five-year commitment to research and safety on turf, tracks and indoor surfaces.
- FieldTurf, Adidas, and MLS Works announced the creation of the "Footprint Fields Program", a program launched by international soccer stars David Beckham and Zinedine Zidane. Both champions helped start up the community soccer program in the US designed to bring football to communities in need.



Luzhniki Stadium - Moscow - Russia

CONTACT DETAILS

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FieldTurf redefines sustainable development with a carbon audit of its artificial turf

RECYCLING

Today, 95% of our turf components are potentially recyclable. Tomorrow, a complete recycling system will enhance this investment.



reuse and
recycle

BETTER MATERIALS

Every FieldTurf field consists of recycled material from 20,000 used tires



better materials

PEOPLE FRIENDLY SPACES

Compared to a natural grass pitch, FieldTurf doesn't need fertilizers, pesticides, or weedkillers leading to a significant decrease in pollution and energy consumption.



people-
friendly
spaces



resource
stewardship

RESOURCE STEWARDSHIP

Water consumption is significantly reduced, saving an average of 2 to 4 million litres of water on every pitch.

CARBON AUDIT OF FIELDTURF ARTIFICIAL PITCHES

Always leading environmental knowledge, FieldTurf has performed a carbon footprint audit of six of its leading artificial turf pitches. The report provides visibility into the impact of FieldTurf products and our commitment to sustainability:

- Constant development of sustainable manufacturing processes
- The greenest products, from conception through to completion (manufacturing, installation, maintenance and end of life)
- Leadership in environmentally-friendly maintenance procedures
- Revolutionary field recycling technologies

www.fieldturf.com

Technical Surfaces European Expansion Planned

Technical Surfaces is the largest specialist synthetic maintenance company in the UK, with over 25 years' experience in the industry and servicing over 500 sites every month. Its client base ranges from individual pitch owners to large organisations such as David Lloyd Tennis Centres.

“Technical Surfaces are at present actively looking for strategic partners across Europe...”

Technical Surfaces' success over the last 10 years has been two-fold: Firstly, its attitude to service and continued improvement – the company's motto of 'Maintaining Standards' has always been at the forefront. This is borne out by receiving the ISO 9001:2008 accreditation. ISO (International Organisation for Standardisation) is the world's largest developer of standards, and the ISO 9001 Certification champions a 'common sense' approach to business strategy. By conforming to an internationally recognised quality management system (QMS), accredited companies ensure that they implement clear and concise working practices to improve their service and productivity levels, increase overall customer satisfaction and give them a competitive edge in their chosen field.

Indeed, with only around 3% of UK businesses holding this certificate, the ISO 9001 has served to strengthen Technical Surfaces' position at the forefront of quality service and customer care within the synthetic sports surface industry. The company's commitment to researching and developing new and improved artificial pitch maintenance practices has been well documented, with academic studies undertaken in collaboration with Cranfield and Loughborough Universities to examine the effects and importance of synthetic pitch maintenance. Furthermore, a reputation for investing in state-of-the-art machinery has enabled many of Technical Surfaces' clients to benefit not only from the services and equipment the company can supply to them, but also from an unrivalled expertise in the best practice of synthetic pitch maintenance.



The other reason for Technical Surfaces' success is its independence. Specialising solely in the maintenance of synthetic surfaces ensures that all information and advice supplied by Technical Surfaces is for one purpose: extending the life of the surface by maximising return on investment. Since its inception, Technical Surfaces has always tried to educate people on why there is a need for maintenance. This was not just for its clients but the industry as well, carrying out seminars and training courses on behalf of SAPCA (Sports and Play Contractors Association) and the IOG (Institute of Groundsmanship).

This independence has led to many pitch installers choosing Technical Surfaces as their preferred maintenance provider. With impartial feedback and assessment, both client and installer can be confident their pitch is in good hands.

Going forward, Technical Surfaces chose to join ESTO with the hope that the success of this business model in the UK can be used to the benefit of clients and installers across Europe. Far from simply supplying routine and regular pitch cleaning and repairs, the services provided by Technical Surfaces now go far beyond this. Major investment and research has led to the introduction of more specialist machinery to combat problems and issues faced by installers who need to renovate 3rd Generation surfaces. Removal of part or all of the rubber infill or simply decompacting these surfaces are all possible with the use of the correct equipment and techniques.



If you feel you or your clients could benefit from Technical Surfaces services or know how or you are in a position to offer knowledge and advice on your local market please contact Nick Harris on tel: +00 44 8702 400 700.

Apart from its obvious hands-on expertise, Technical Surfaces has also established a new pitch management system which enables the logging of both maintenance work and pitch usage. Its OTIS facility (Online Technical Information System) allows maintenance work, reports, technical pitch information, etc to all be accessed from a centralised portal over the internet. It also allows clients to conveniently log pitch usage and report any problems for immediate attention and keep installers up to date with the present pitch condition. The system significantly reduces administration and ensures an audit trail of servicing for both insurance and health and safety requirements.



**TECHNICAL
SURFACES**

Maintaining Standards

<http://www.technicalsurfaces.co.uk>



THE MOST EXCITING THING IN SYNTHETIC TURF SINCE,

The inventors of synthetic turf would be amazed by what TenCate has created today. Components that make turf more playable, durable, resilient, and versatile than ever imagined. They set the standard for top-flight sports, recreational, and landscaping projects.

But that should really come as no surprise. We're the global leader in synthetic grass components. Our processes are proprietary and patented. Our history of technological advances, unmatched. So our yarns and components are engineered with advanced industry and application knowledge to meet the demanding performance needs of today's synthetic turf systems.

And, now, we present our latest advances: technologies that produce the pinnacle of our sports turf products.

XQ™ Technology. Turf blades of unsurpassed resilience, maximum playability and great durability. The ultimate for FIFA 2-Star fields.

XP™ Technology. Turf blades of ultimate durability. Making it the perfect choice for mini-fields and extreme high-use fields.

XK™ Technology. Primary turf backing of extraordinary stability and integrity that maximizes the life of your field.

To learn more, contact one of our offices below:

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materials that make a difference

tencategrass.com

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WELL, SYNTHETIC TURF.

TigerTurf: Unleash



TigerTurf are an international manufacturer of synthetic turf. We work in partnership with communities throughout the globe to deliver on our customers' requirements.

Using our 30 years experience and expertise we aim to always provide a quality product and service for every application and event.

We want those involved to enjoy the feel-good factor on a synthetic turf solution designed specifically for that arena.

When you select TigerTurf, you have chosen more than a surface. You become part of a global family which shares collective knowledge, experience and, most importantly, passion.



hing Possibilities



Based from the UK's centre of carpet manufacturing near Birmingham, skilled workers are a vital part of the process ensuring high quality turf is delivered to the customer every time.

TigerTurf offer a range of products covering a variety of applications. With one of the industry's strongest R & D teams, we work closely with governing bodies and professional athletes to ensure all our customer requirements are met.

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ARTIFICIAL TURF SHOCK PAD



XC (patent pending)



XC plus



C (patent pending)

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TROCELLEN GROUP

Many years of experience and a broad know how combined with unconventional thinking and a young, dynamic team characterise the Trocellen Group. Despite of being active in very heterogeneous industries, our solutions are all based on the same principles: light weight, environmental friendliness and great simplicity.

Through our business unit organization, divided in Automotive, Insulation, Sport & Industry, Adhesive Tapes and Footwear we create synergies which provide us with the necessary knowledge and experience to develop innovative products and solutions. Our eight plants located in Germany, Spain, Italy, Hungary, Russia and Malaysia are specialized on the production of polyolefin foams and together with our research and development centre FETI (Furukawa Electric Institute of Technology) in Budapest, as well as different partnerships with universities and designers we are always looking not only for improvements, but also for something new. This enables us to offer a broad knowledge and development possibilities for many different industries.

A combination of industrial design, fashion, technical performance and quality makes it possible for our business unit Sport & Industry to continuously develop innovative solutions for our current markets and to find new application areas for our materials and technologies, creating new markets.

Our artificial turf shock pad system was designed in order to maximize comfort and security, no matter if installed on sports fields, playgrounds or private gardening and landscaping. The layer system is lightweight, easy and fast to install and meets the requirements of the international sports federations.

The XC and C cuts compensate the expansion or shrinkage during the installation, avoiding "waves" due to changes of temperature. This property makes our product resistant to extreme weather conditions offering also an optimal protection of the artificial turf. The XC plus type with integrated drainage lines allows a lateral drainage when installed on surfaces such as concrete or asphalt.

The flexibility and light weight of our shock pads allow an easy handling and the closed cell structure of Trocellen's cross-linked PE foam ensures very low water absorption, making the installation process independent from weather conditions. Furthermore the high dimensional stability of Trocellen shock pads allows the access of heavy machines into the field and due to the XC and C cutting system Trocellen shock pads are easy to weld and provide high fitting accuracy. The result is a homogeneous even surface with no waves during or after the installation process or due to climatic changes.

Moreover, the biomechanical properties of our shock pads reduce the risk of injuries for the players and meet important requirements of international sports federations, regarding shock absorption, energy restitution and vertical deformation. The FIFA ** Certification has been conferred to several sports fields, where our XC shock pads were installed together with artificial turfs from different grass manufacturers and the respective infill. Those systems meet the requirements, needed for the most important FIFA and UEFA competitions, such as robustness, climatic resistance and interaction between ball, player and surface. Other certificates obtained by pitches equipped with Trocellen shock pads such as the FIH homologation for Hockey fields and the LND (Lega Nazionale Dilettanti) homologation, which is one of the most important European homologations for the amateur sport market, are another proof of the excellent performance and quality of our shock pads.

These homologations, the long lasting performance of our shock pads and the customized service in order to reduce the installation times and costs of the artificial turfs are only some of the reasons why we are your best choice. Contact us to discover more reasons.

Luca Girelli
Key Account Manager Artificial Turf
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trocellen.com

XC (patent pending)

XC plus

C (patent pending)

Tessiture Pietro Radici SpA

Tessiture Pietro Radici is a RadiciGroup (www.radicigroup.com) company founded in 1941. Since the early 1980s, Tessiture Pietro Radici has been engaged in the production of Radigreen® (www.radigreen.com) polyolefin and polyamide yarn for sports and recreational synthetic turf, as well as for decorative and landscaping use.

Based in Gandino (BG), Italy, Tessiture Pietro Radici's production operations are supported by an R&D team dedicated to implementing continual innovation and developing the highest quality products. Every production cycle is managed and monitored by certified, state-of-the-art control systems. Safeguarding the environment and end users is the key objective. Our efficient sales organization is backed by experienced customer service and technical assistance personnel. Tessiture Pietro Radici is equipped to meet the specific requirements of its customers and works side by side with trainers and athletes to achieve continual improvement in synthetic turf.

RADIGREEN® - the product of RadiciGroup's years of experience in the artificial grass sector - ensures excellent performance, while complying with the most stringent international environmental protection standards. The Radigreen® range goes from *Radigreen® FF PE* and *Radigreen® SF PE* polyethylene yarn, *Radigreen® MT PE* monotape to *Radigreen® MFL PA* polyamide monofilament and *Radigreen® MFL PE* polyethylene monofilament, available in new and exclusive shapes developed through synergistic collaborations with customers. The Radigreen® portfolio also includes *Radigreen® KDK* (curly) and *TXT* (textured) polyethylene and polypropylene yarn, and innovative *MY Radigreen®* combination yarns, specifically developed for synthetic turf used in residential and commercial landscaping applications.

Contact us:

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www.radigreen.com

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RADIGREEN®. Shaped to win.



RADIGREEN®

RADIGREEN® team works side by side with customers and athletes to make synthetic turf a wonderful experience.

www.radigreen.com – www.radicigroup.com



Performance

Community

Economics

Environment

Education



European Synthetic
Turf Organisation

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