

M O N D O T U R F

A R T I F I C I A L T U R F S Y S T E M S



MONDO SPORT.TURF.

WHERE
THE GAMES
COME TO PLAY



**MONDO IS OFFICIAL SUPPLIER
TO THE LONDON**

**OF SPORT FLOORING AND EQUIPMENT
2012 OLYMPIC AND PARALYMPIC GAMES**

MONDO HAS BEEN THE OFFICIAL SUPPLIER OF THE LAST NINE OLYMPIC GAMES



MONTREAL 1976 MOSCOW 1980 LOS ANGELES 1984 SEOUL 1988 BARCELONA 1992 ATLANTA 1996 SYDNEY 2000 ATHENS 2004 BEIJING 2008

Mondo has been a family owned company since its beginning in 1948. Mondo's success has been built upon our investments in technology and our commitment to the highest quality standards in the industry. Today, Mondo is a global company with over 1500 employees in 13 production plants and sales subsidiaries, selling products in 193 countries. Mondo is the largest volume producer of sport surfaces.

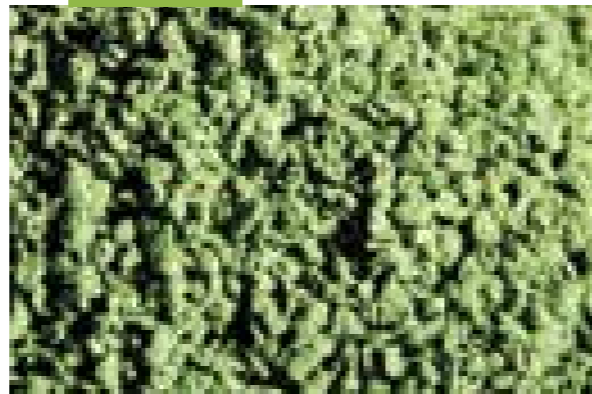


ENVIRONMENTALLY FRIENDLY

MONDOTURF
ECOFILL®

MONDOTURF: UNIQUE IN ITS LOW ENVIRONMENTAL IMPACT SAVING OF 47.6 TONS OF CO₂ BY WAY OF:

- Horizontal drainage capacity of the Fine Tuned underlayment allows for reduction of about 10 tons of CO₂ with the reduced construction work required for the sub-base preparation
- During the production, 70% of recycled materials are used
- Granulated post-consumer materials are coated in order to block harmful emissions
- Saving of up to 90% of water, and 100% of fertilizers and pesticides normally used in natural grass
- Saving of 4 tons of CO₂ by lower maintenance costs or 5% only compared to natural grass
- Maximum reduction of dependency from oil and gas



CREATING ACTIVE ENVIRONMENTS IN PARTNERSHIP WITH NATURE

Mondo products are safe for the environment at every stage of their life, from production to storage, from initial installation to use and to eventual disposal.

PRODUCTION

Mondo scrutinizes each step of the production cycle to minimize resource waste and eliminate toxic gases.

Mondo is proud to meet or exceed UE and other international standards for integrity in production and products.

ECO-COMPATIBLE RAW MATERIALS

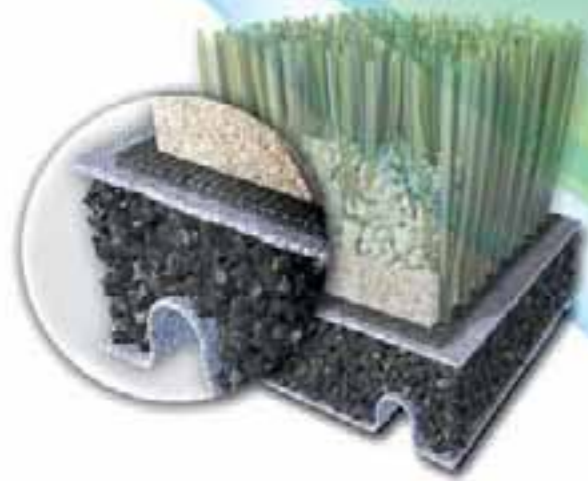
Mondo's products are made from natural and synthetic raw materials that are not considered harmful by the most stringent national and international standards. The raw materials that are employed are selected and constantly controlled within the production site and verified by approved independent laboratories to meet or exceed the current environmental standards.

RESEARCH

Our artificial turf systems are the result of five years of studies in Mondo's internal research and development facilities supported by and in collaboration with the Institute for Biomechanics of Valencia (IBV), the Laboratory of Ergonomics and Biomechanics of the University of Pavia and some of Europe's top professional soccer teams.

RESEARCH & DEVELOPMENT

THE NATURAL EVOLUTION

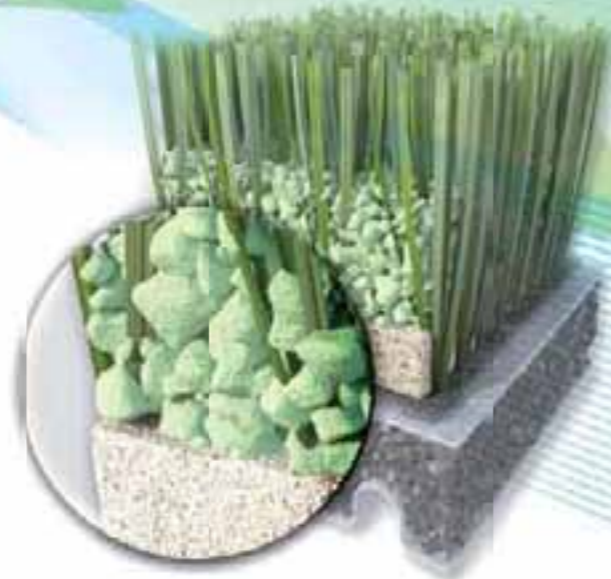


FINE TUNED SYSTEM®

Elastic prefabricated underlayment.

The Fine Tuned is made of recycled tires triturated, treated and encapsulated sandwich-like between two polyester layers.

The recycled rubber is encapsulated in polyurethane eliminating any contamination due to recycled tires.

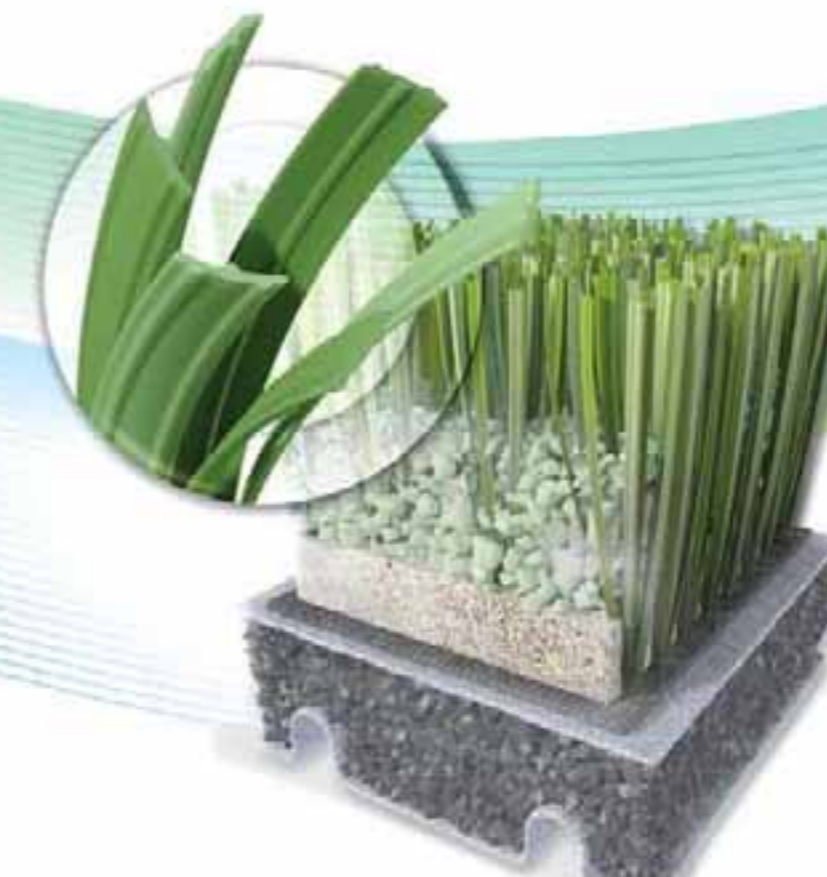


ECOFILL®

Granulated ecological thermoplastic non-vulcanized rubber.

Ecofill® possesses all the properties of natural earth from quantifiable safety and performance standards.

This dynamic infill allows players to accelerate, pivot and make traction and torso movements with similar values to those made on natural turf.



MONOFIBRE 3NX

Mondo's research and development centre, in cooperation with the Institute of Biomechanics of Valencia and the Technological Institute of Aragon, set about finding the best composite to use for the extrusion of the fibre.

Considering test values for friction and tear resistance, Mondo developed a new monofilament with a semi concave structure with three asymmetric center spines of Mondoturf NSF Monofibre 3NX.

GOAL

Creating a new and completely innovative artificial turf system which reproduces all the characteristics of a well maintained natural grass playing field. The artificial turf system, in good weather conditions, has an infill material that offers maximum safety with

superior dynamic performance without the problems inherent to natural turf fields:

- High maintenance costs
- Risk of injuries due to the poor conditions of the field
- Safety and safeguard of athletes' health.



COMPUTERIZED ROBOT FOR THE DETERMINATION OF SHOCK ABSORPTION, VERTICAL DEFORMATION AND ROTATIONAL RESISTANCE



MEASURING SYSTEM FOR IMPACT FORCES AS PER DIN STANDARD 18035



DETERMINATION OF ROTATIONAL RESISTANCE



DETERMINATION OF SKIN /SURFACE FRICTION



LISPORT TEST

MONDOTURF FTS3 SYSTEM

The synergy, provided by the three elements which compose the Mondoturf FTS3 System, grants exceptional biomechanical conditions on the play field for the practice of football and provides the maximum confidence at an ecological level.

In addition, an excellent impacts absorption - vertical deformation relation is achieved in the biomechanical player - surface interaction with the best capacity of spikes traction. Ball bounce and rolling effects are similar to the best natural grass.

Mondoturf FTS3 is the only turf system in the world which improves the conditions of the best natural grass field.



A WORLDWIDE TEAM OF EXPERTS

3 R & D AND INNOVATION CENTERS
 40 ARCHITECTS AND ENGINEERS
 200 TECHNICIANS
 100 ACCREDITED INSTALLERS
 196 COUNTRIES DESERVED BY
 2,500 AUTHORIZED DEALERS AND RESELLERS

CONSULTING AND DESIGN

Our technicians know the laws and regulations currently in force, and can assess the details and issues of various projects, recommending made-to-measure solutions.

Mondo has been designing and installing sports facilities for 60 years: more than half a century's experience in the sector means that our designers understand the developments and issues involved in each sport.

Mondo can meet its customers' specific requests by delivering designs that take into account the financial resources, size and performance specifications required by each client.

CONSTRUCTION

Mondo has a highly experienced technical team specialised in every stage of building a sports installation. Mondo does more than just provide the materials and create playing surfaces.

We are able to draw on specialists who can intervene in order to build the facilities in which the installations will be housed, and the ancillary structures.

Our technicians monitor the construction and fitting out of all buildings, providing valuable on-site project management assistance.

INSTALLATION

Mondo is responsible for installing and laying its materials, relying on competent, well-qualified teams who are always up to date with the latest developments in the sector.

Mondo works with the managers and operators of sports facilities so that the installation will be integrated perfectly with its operational environment.

Product quality and performance are protected at every stage.

SERVICE

Mondo does more than simply provide after sales advice on its products. Tell us about the problems you have experienced with faulty supplies and we can recommend the right Mondo product to resolve the problem.

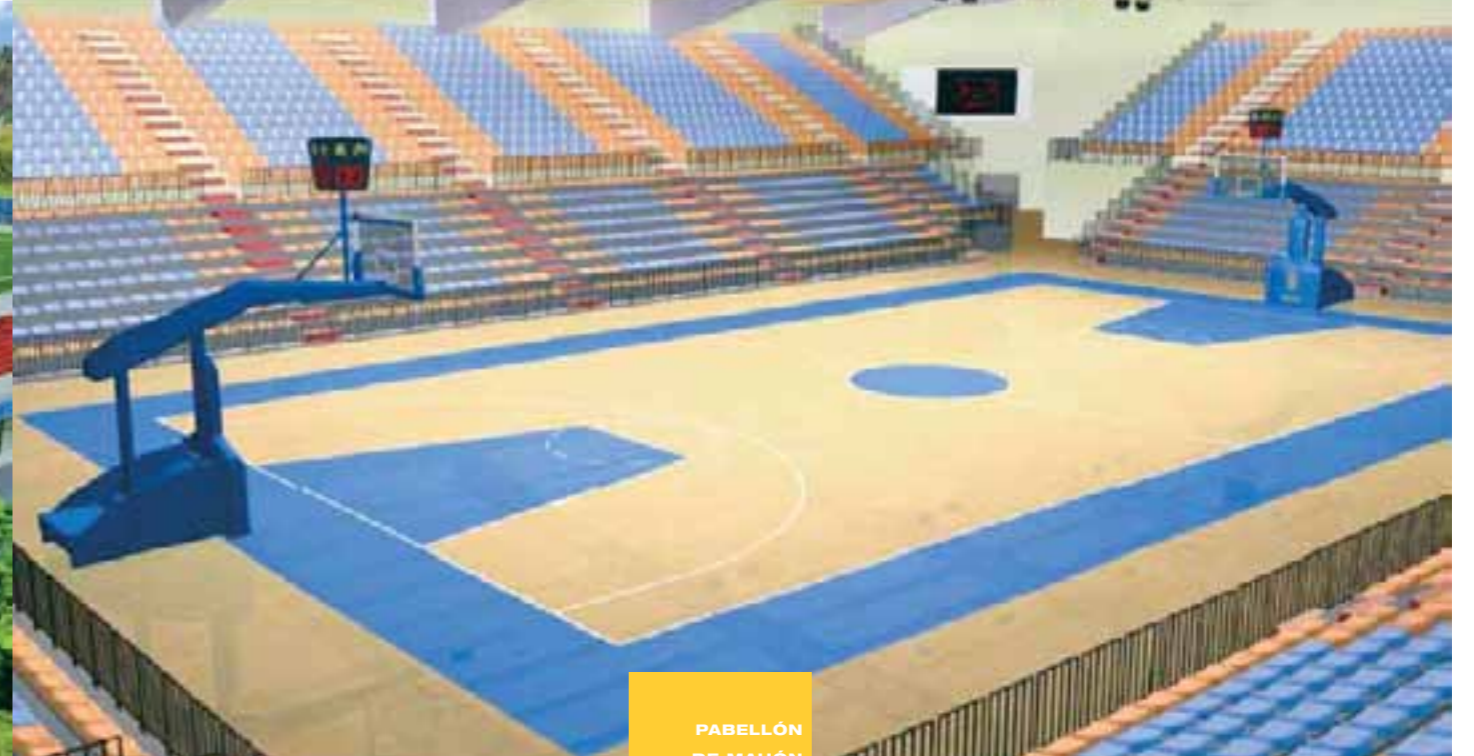
DESIGN BUILD



MBUCO MABELE STADIUM ANGOLA



- 1 FOOTBALL FIELD
- 1 8-LANE STRAIGHT, 130 M
- 1 MULTIPURPOSE FIELD 44X 22M
- PREFABRICATED BUILDINGS FOR:
 - MEDICAL STRUCTURES AND TOILETS
 - VIP AND PRESS AREAS AND RECEPTION ROOM
 - COFFEE BAR AND TECHICAL ROOMS
 - FIXED TRIBUNES AND SEATS

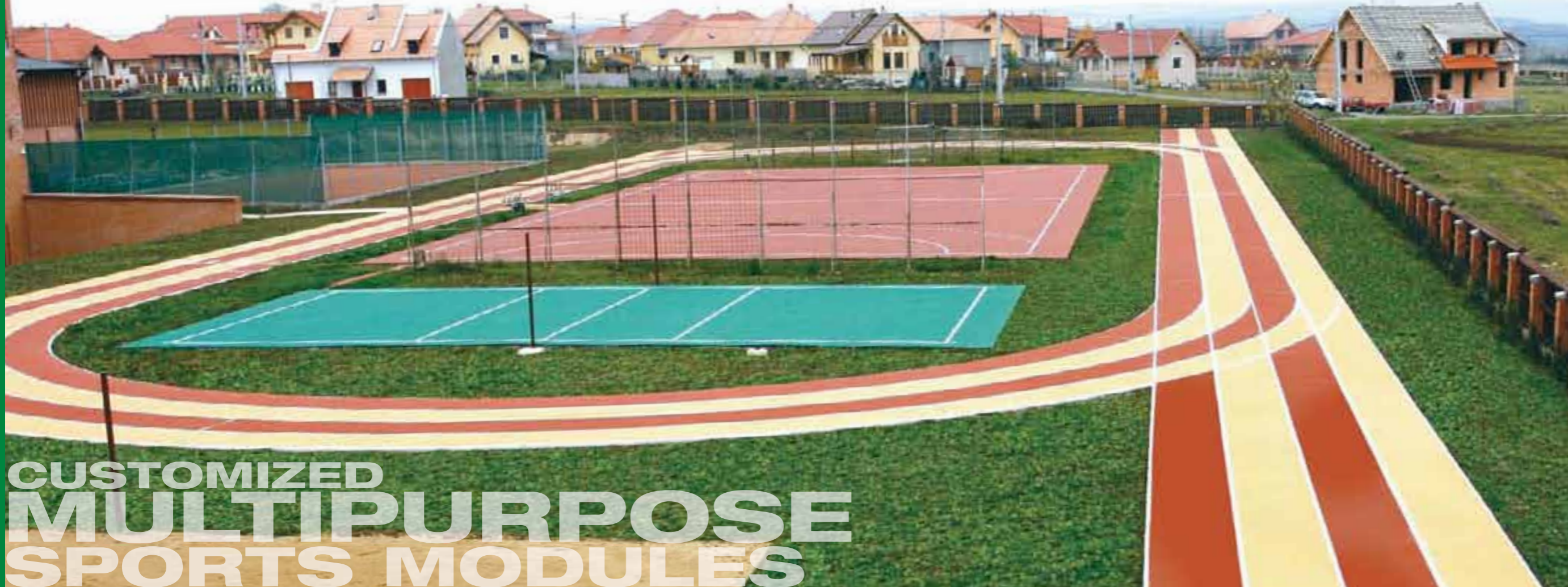


PABELLÓN DE MAHÓN SPAIN



- 1 MULTISPORT WOODEN FIELD WITH BASKETBALL EQUIPMENT
- TELESCOPIC AND DISMOUNTABLE TRIBUNES WITH A CAPACITY OF OVER 5,000 SEATS
- SCOREBOARDS
- CHANGING ROOMS
- VIP AREA, PRESS AREA AND RECEPTION ROOM
- MEDICAL ROOMS, MASSAGE ROOMS AND ANTI-DOPING TEST AREA
- TECHNICAL ROOMS
- COFFEE BAR
- TOILETS





CUSTOMIZED FOR YOUR NEED

The projects presented here are just examples, but the basic concepts of this study can be adapted to suit a customer's specific needs, obviously taking practical aspects (the type of sport, available space etc.) and financial aspects into account.

The ultimate aim is to create a healthy environment in which basic sports can be practiced so that young people can grow, develop, and learn to appreciate sport.

CUSTOMIZED MULTIPURPOSE SPORTS MODULES & PLAYGROUND

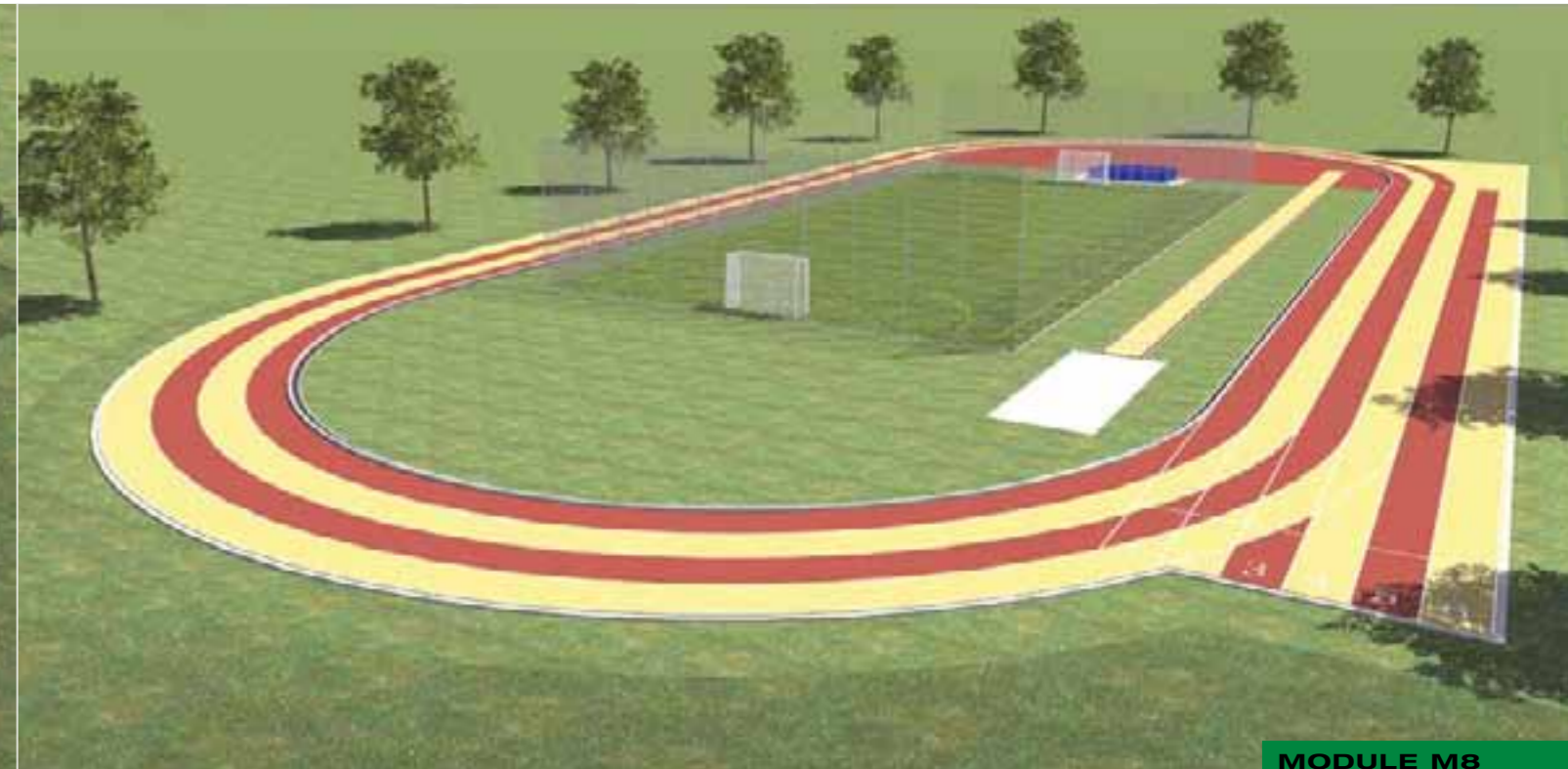
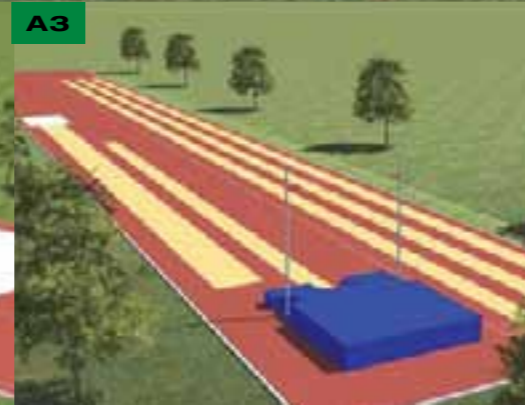
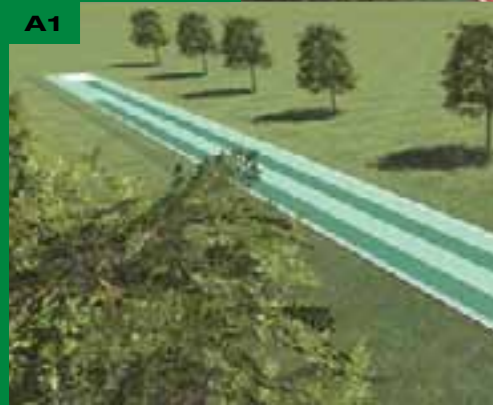


MODULE M6

A1

A2

A3

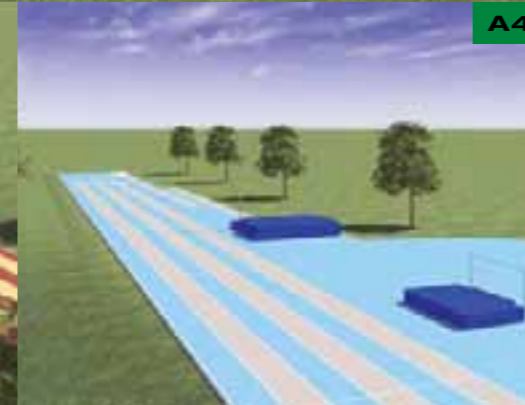


MODULE M8

A4

M5

M7

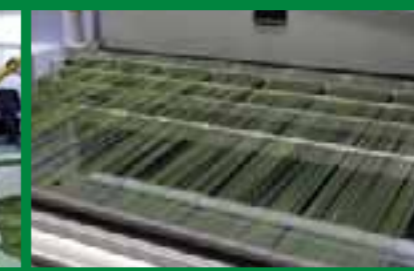




PROPRIETARY MANUFACTURING PROCESS



R & D



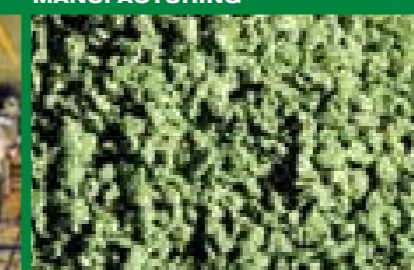
YARN MANUFACTURING



BACKINGS



TUFTING



INFILL GRANULES MANUFACTURING



ELASTIC UNDERLAYMENT MANUFACTURING



Founding Member
European Synthetic Turf Organisation

100% MONDOTURF

Mondo is the sole turf producer that can design, produce and install the complete system:

yarn, backing, elastic underlayment and infill, complying with ISO 9001 standards.

QUALITY CONTROL

Mondo having full control of the production of each components can guarantee complete quality, and can meet the Federations standards in an easier way.



1 THE PREMANUFACTURED MATERIAL IS DELIVERED IN THE BUILDING SITE



2 FINE TUNED® UNDERLAYMENT ROLLS ARE FIXED TOGETHER



3 THE TURF IS LAID DOWN

4 MARKING THE LINES



5 INFILL



QUICK INSTALLATION

EASY INSTALLATION

Beyond the system production, Mondo can directly install and take care of the maintenance of the pitch. Mondoturf systems are easy and quick to install, thus guaranteeing athletes' specific needs and easy maintenance.



MONDOTURF MONDOTRACK THE ULTIMATE OUTDOOR FACILITY

LOYOLA ACADEMY • U.S.A. Mondoturf Ecofill® • Mondotrack SX

"During our research, we contacted a number of schools that have Mondo products, and they could not have been happier. Mondo is known around the world for taking care of its customers before, during and long after an installation. That combination of high-quality products and first-class customer support was very attractive to us."

Patrick Mahoney, Director of Athletics, Loyola High School Academy



CENTRO DE TECNIFICACIÓN DE LLEIDA • SPAIN

The Lleida Training Centre is equipped with a Mondo Sportrack athletic track that circles a field of Mondoturf NSF Monofeel 1260 AS. Sportrack tiles were also used to extend one of the curves on the athletics track and to build a basketball court. The long jump pit has been expanded and can now be used for beach volleyball.

"I would like to emphasise that both for us as a sports training centre and for the town of Lleida, the new facilities are a significant step forward. The athletes of the town have been calling for a centre like this for a long time. The fantastic performance of Mondo products has allowed us to improve the quality of sports training, especially for track athletes."

Txema del Rosal, Màrius Torres Athlete's Residence, Catalanian Sports Council

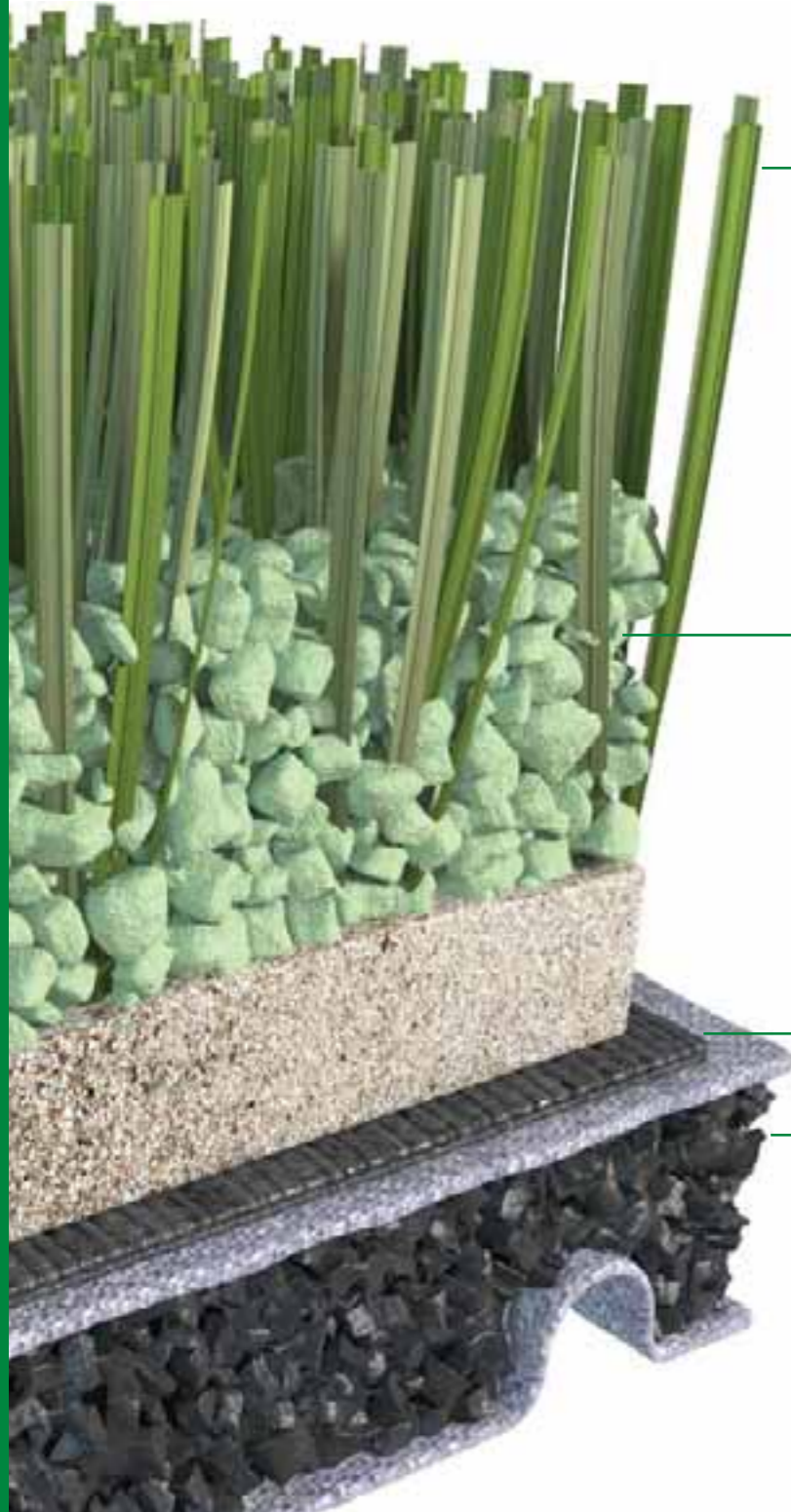


Torres de la Alameda • Spain



**MONDOTURF
ARTIFICIAL
TURF
SYSTEMS**

COMPONENTS



FIBER MONDOTURF NSF

3NX • 4-Play • Monofeel

- Long lasting
- Excellent aesthetical aspect
- Optimal resiliency
- Softness

ECOFILL®

Ecofill® is a patented polyolefin-based granule 100% recyclable, made with a very high post-consumer content. In accordance with EN 71 norm - part 3.

BACKING

Thermo-bonded • PU Coating

FINE TUNED SYSTEM®

Pre-manufactured Fine Tuned underlayment
The granules are coated with polyurethane and glued together to create a resilient porous structure. The coating is protected from damage that friction would generate if granules were loose in the turf infill.

THE ONLY TURF SYSTEM IN THE WORLD DESIGNED TO MINIMIZE ITS ENVIRONMENTAL IMPACT TO A MINIMUM.

UNIQUE IN INNOVATION

- The system provides the same playing performance and characteristics as natural grass.
- Completely integrated design and production of all components: yarn, backing, Fine Tuned System® underlayment, and infill materials.



- The artificial upper turf surface can be easily replaced at the end of its life. Another turf field can be installed on top of the same Fine Tuned layer, with a remarkable cost saving.
- The upper surface is completely recyclable according to a patented practice.

UNIQUE IN SAFETY AND PERFORMANCE

- Performance characteristics are consistent throughout the entire playing surface.
- Optimum shock absorption and energy return.
- Reports on playing injuries testify to its safety.
- Excellent for rehabilitation therapy.
- It has exceeded the laboratory tests previewed from FIFA rules for FIFA 2 STAR certified pitches.
- System is guaranteed to maintain its performance and playability characteristics over its entire lifecycle in all weather conditions.

UNIQUE IN VALUE AND LIFE-CYCLE COST

- All biomechanical properties will remain unaltered over time.
- MondoTurf surfaces can be used in any weather conditions without any variation in play performances.
- System can be used 1,728 hours per year, compared with an average of 200 hours per year for a natural grass field.
- Excellent playability and behaviour over time.

UNIQUE IN ITS LOW ENVIRONMENTAL IMPACT

Saving of 47.6 tons of CO₂ emissions in the atmosphere



MONDO R&D CENTERS DEVELOPPED AND IMPROVED SPECIAL FIBERS THAT CAN GUARANTEE QUALITY, PERFORMANCE AND DURABILITY OF THE MONDOTURF SYSTEMS. MONDO PRODUCES DIRECTLY ALL ITS FIBERS IN ORDER TO MEET THE ATHLETES' NEED.

MONOFEEL



Monofeel, with a reduced fibrillation pattern and a new polymer, is the new generation fiber that provides durability, performance and playing characteristics similar to natural grass.

NEW PATTERN OF FIBRILLATION

An exact sequence of long and wide length cuts improves the aesthetic of the grass field while greatly increasing the durability of the fiber.

The fiber looks and feels like a monofilament fiber, but the turf withdrawal force is not compromised.

A better molecular alignment and a straight line molecular direction provide dimensional memory and a greater capacity of recovery. The new molecular structure contributes to the durability and the performance of the fiber; the fiber feels soft and has a greater elastic memory that ensures that the it will retain its appearance and will not deform even after many years of use.

NEW UV PROTECTOR ADDITIVE

Greater protection to the polyethylene • Smaller wearing down of the turf fiber • Color is safeguarded for a longer period of time maintaining unalterable its technical characteristics

4-PLAY



Two-color true monofilament. Cross section, width and thickness of fiber guarantee optimum technical characteristics and extraordinary look. It offers superior friction, resiliency and wear characteristics.

LATEST GENERATION OF POLYMER

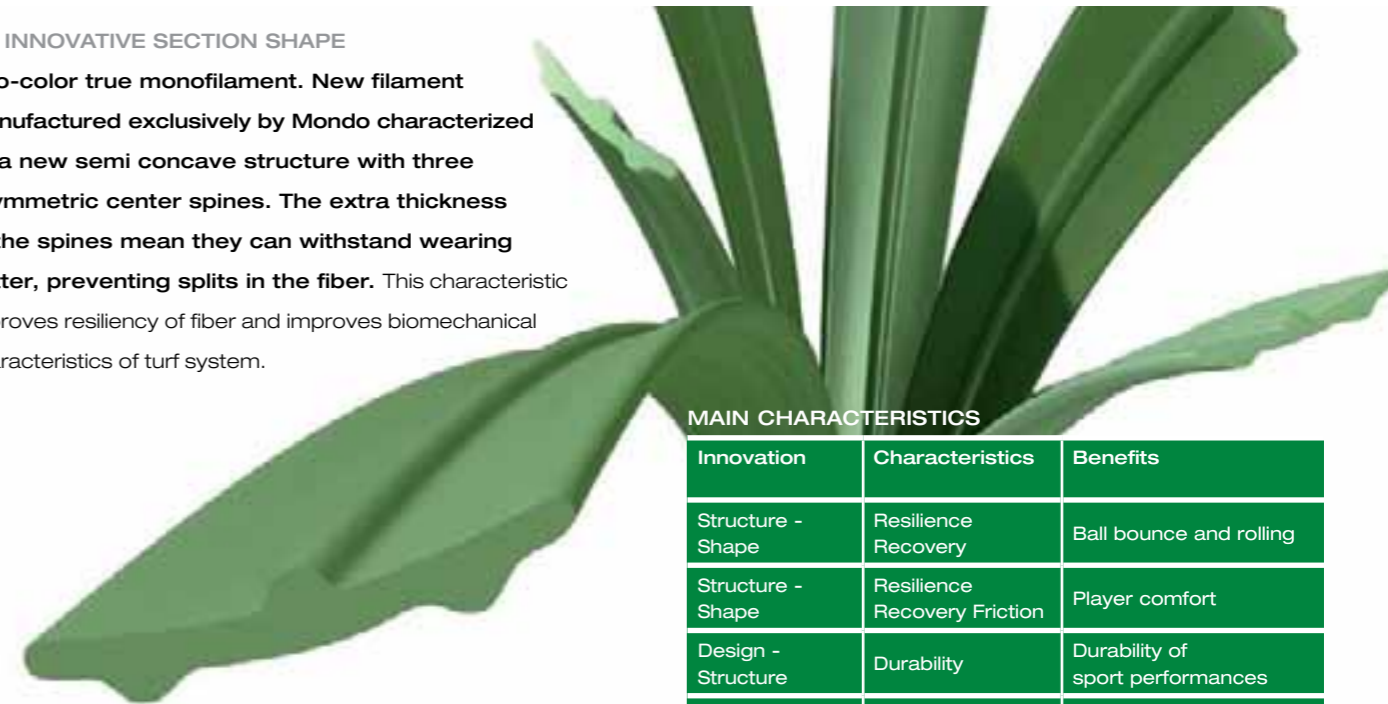
Improved molecular alignment and orientation guarantee long term consistency of technical characteristics.

Turf blades provide superior elastic memory and resistance to matting per effect of traffic, ball roll and ball rebound. Extra thickness withstand wearing better. Fibers do not split. This characteristic improves resiliency of fiber and improves biomechanical characteristics of turf system.

THANKS TO ITS COMPARATIVE ANALYSIS ON 11 DIFFERENT TYPES OF FIBERS, MONDO WAS ABLE TO DEVELOP 3NX, THE LAST GENERATION FIBER THAT SENSIBLY IMPROVED: RESILIENCY • SOFTNESS • MECHANICAL CHARACTERISTICS OF THE YARN • DURABILITY

AN INNOVATIVE SECTION SHAPE

Two-color true monofilament. New filament manufactured exclusively by Mondo characterized by a new semi concave structure with three asymmetric center spines. The extra thickness of the spines mean they can withstand wearing better, preventing splits in the fiber. This characteristic improves resiliency of fiber and improves biomechanical characteristics of turf system.

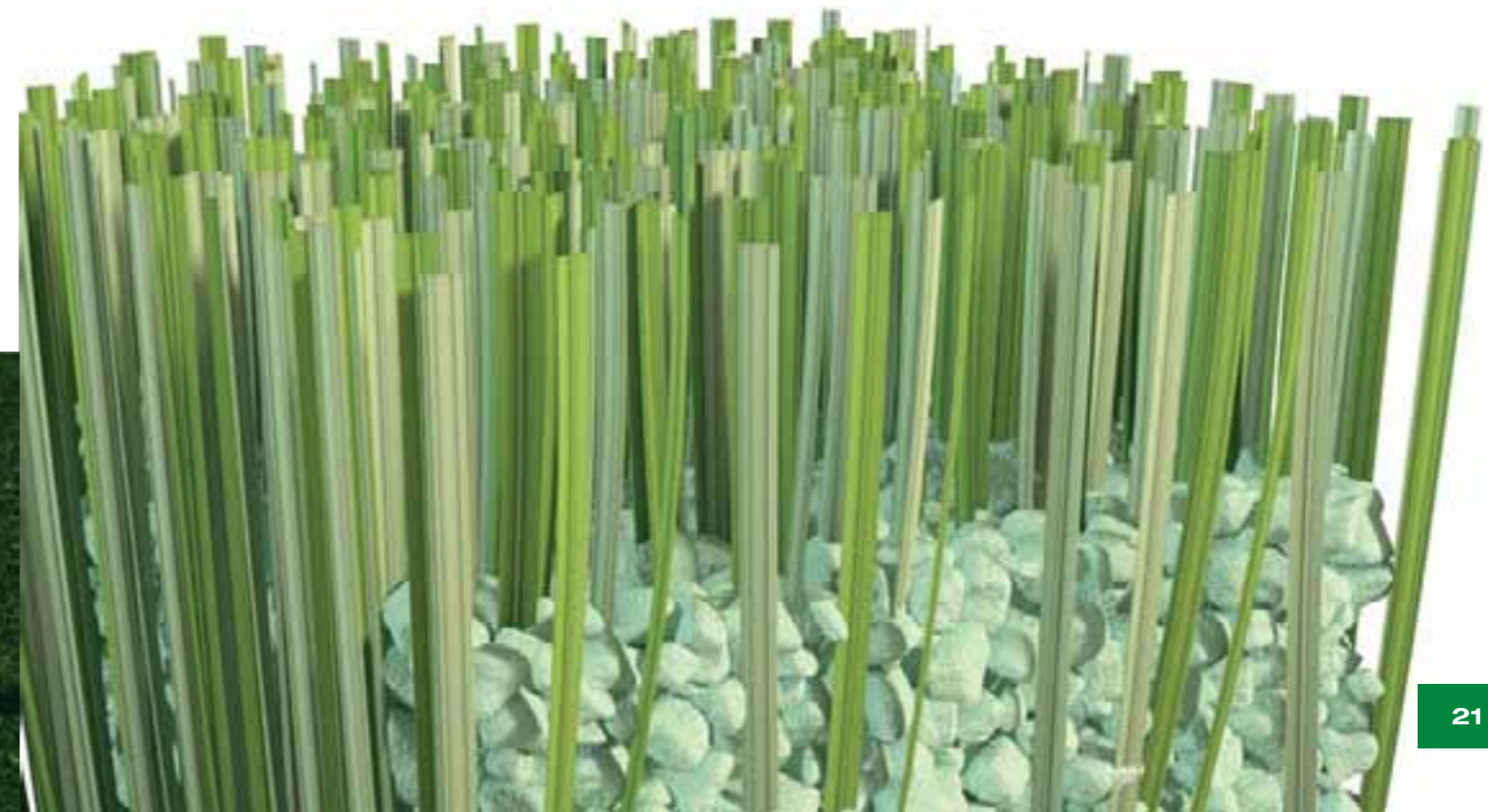


MAIN CHARACTERISTICS

Innovation	Characteristics	Benefits
Structure - Shape	Resilience Recovery	Ball bounce and rolling
Structure - Shape	Resilience Recovery Friction	Player comfort
Design - Structure	Durability	Durability of sport performances
Design - Structure	Comfort	Excellent biomechanical characteristics
New polymer	Resilience	Ball bounce and rolling-comfort
New polymer	Resistance Friction	Durability of sport performances
New uv stabilisation	Resistance	Durability of colour and technical properties
New dual tone colour	Aspect	Real visual aspect

The new semiconcave structure with three asymmetric center spines provides optimized recovery and dimensional memory.

Turf blades provide superior elastic memory and resistance to matting per effect of traffic, ball roll and ball rebound.



MONDOTURF CARPETS

TRADITIONAL BACKING AND POLYURETHANE COATING



LATEX-BASED COATING
THE FIBRES ARE TRADITIONALLY FIXED WITH A LATEX-BASED COATING.

HOWEVER, THERE HAVE BEEN MANY PROBLEMS WITH THE DISTRIBUTION AND EVENNESS OF THIS PRODUCT, WHICH LEAD TO LOSS OF FIBRES.



POLYURETHANE COATING
To resolve this problem, Mondo has developed a special fixing process which involves the use of polyurethane coating.

THE ADVANTAGES OF POLYURETHANE

- **Improved resistance to tearing**
The polyurethane is distributed evenly among the fibres, which thus have better adhesion to the backing.
- **The carpet lasts longer**
Compared to latex, polyurethane does not crumble or degrade. Aging tests have demonstrated that even under extreme weather conditions, polyurethane will help the carpet to last longer.

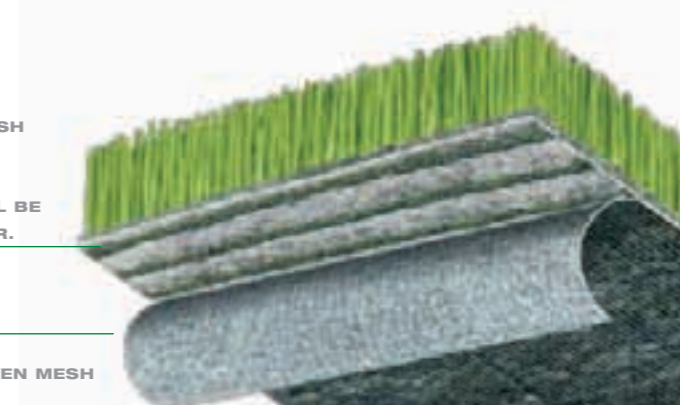
NEW INNOVATIVE THERMO-BONDED BACKING



ENGINEERED AND DEVELOPED BY MONDO, THIS FULLY THERMOPLASTIC ARTIFICIAL TURF BACKING DERIVED FROM A NEWLY INNOVATIVE AND PATENTED MANUFACTURING PROCESS IS EASIER TO INSTALL AND RECYCLE THAN TRADITIONAL POLYURETHANE-COATED ARTIFICIAL TURF BACKING.

TUFTING LAYER
1 LAYER OF POLYESTER FABRIC
1 LAYER OF POLYESTER WOVEN MESH
POLYETHYLENE
DURING THE TUFTING PROCESS
POLYETHYLENE YARN LOOPS SHALL BE
INSERTED INTO THE TUFTING LAYER.

STABILITY LAYER
POLYETHYLENE
1 LAYER OF HEAVY POLYESTER WOVEN MESH
1 LAYER OF POLYESTER FABRIC



THERMO-BONDING PROCESS
THE THERMOPLASTIC CONTAINED WITHIN THE LAYERS IS MELTED TO ADHERE BOTH BACKINGS TOGETHER AND PERMANENTLY FUSE THE TUFTS IN PLACE.

THE ADVANTAGES OF THERMO-BONDING

- Tuft bind**
- Unparalleled tuft bind in the industry.
 - Consistent performance and playability.
 - Reduces premature wear or degrading aesthetics.
- Drainage**
- Backing is >90% porous.
 - Unparalleled drainage.
 - Efficient water flow and consistent drainage throughout the entire backing.
 - No drainage holes required in the backing.

- Environmental**
- **100% recyclable**
Does not utilize any polyurethane components.
 - Contains >85% post consumer recycled content.
 - Reduces of the environmental footprint- all materials are sourced in Europe reducing transportation emissions.
- Construction**
- **Strength & dimensional stability**
 - Quad-layer polyester woven and non-woven construction provides a reinforced matrix.
 - Not affected by moisture or changing environmental conditions.
 - Flame resistant
 - Creep resistant
 - UV resistant



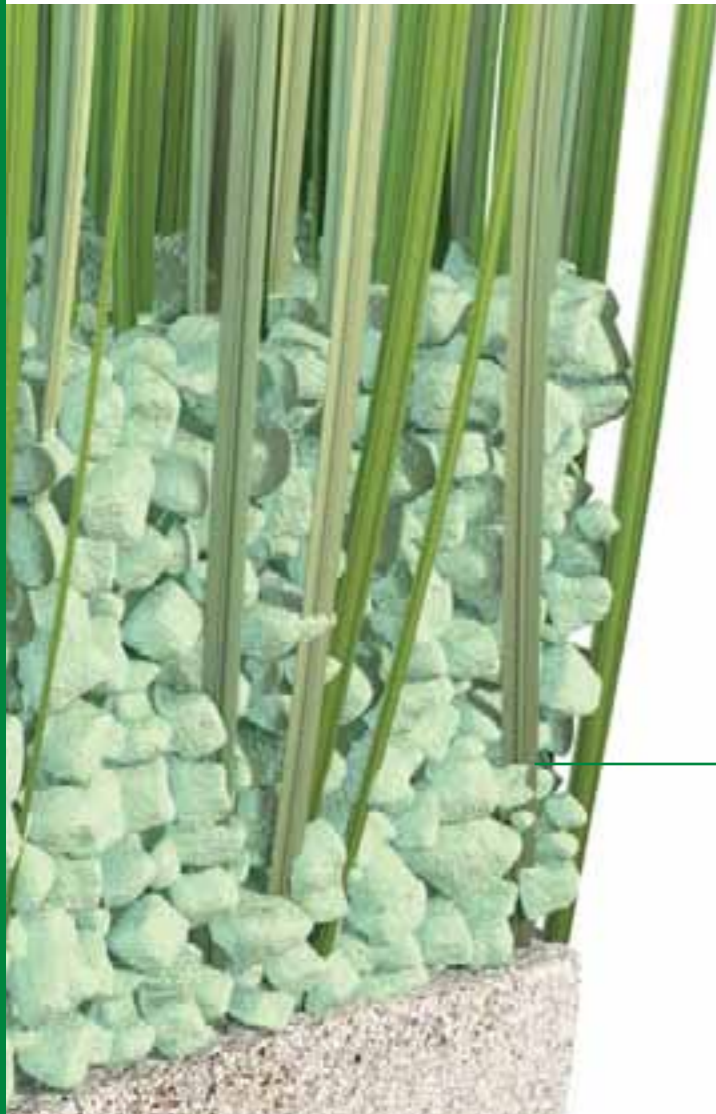
ECOFILL® PATENED POLYOLEFIN GRANULE

ECOFILL® POSSESSES ALL THE PROPERTIES OF NATURAL EARTH FROM QUANTIFIABLE SAFETY AND PERFORMANCE STANDARDS. THIS DYNAMIC INFILL ALLOWS PLAYERS TO ACCELERATE, PIVOT AND MAKE TRACTION AND TORSO MOVEMENTS WITH SIMILAR VALUES TO THOSE MADE ON NATURAL TURF.

PERFORMANCE AND SAFETY

- **Free of: heavy metals, amine aromatics, polycyclic aromatic hydrocarbons (PAHs)**
Heavy metals, amine aromatics and polycyclic aromatic hydrocarbons (PAHs) may increase cancer risk.

- **70% lower energy return than traditional infill materials**
Excessive energy return typical of traditional infill systems may exert additional stress to the athlete's muscles and joints and may lead to premature fatigue.
- **80% lower frequency vibrations versus traditional infill**
Recent studies confirmed that there is a direct relationship between the vibration level on the body and the risk of injury; moreover the vibration level influences the comfort level and athletes' steadiness on the turf.
- **40% more dense than traditional infill**
High density reduces granule migration providing a more uniform and stable field, it improves athletic performance and reduces injuries.
- **Controlled resiliency on the entire play surface**
This ensures extraordinary ball behaviour and a good playability, shock absorption, energy return and reduction of injury risks.

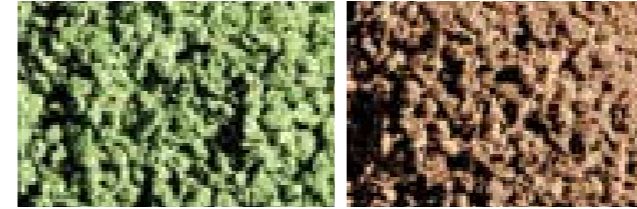


LIGHT HEAT ABSORPTION

Light colored granules will retain less heat than traditional black rubber granules.

- The extra heat produced by traditional black rubber granules increases fatigue and discomfort reducing the athletic performance; it can increase the risk of dehydration, may cause blisters and - in extreme conditions - may even cause skin burns.
- Contrary to traditional infill granules, Ecofill® is virtually odor free and will not release any irritant odors even in hot and humid environments.

Ecofill® is available in two colors: grass green and earth brown.



ECOLOGY

100% recyclable, made with a very high post-consumer content

- **Contains no heavy metals, aromatic amines, or polycyclic aromatic hydrocarbons (PAHs)**
It has also undergone all the tests usually performed on children's toys and passed them with flying colors. It does not release any volatile substances or produce any irritating odors, even when exposed to intense heat or in tropical climates.
- **Its high density reduces the tendency to float and obstruct the water intake system.**

GEO MONDO NEW ORGANIC INFILL

GEOMONDO IS A NEW ORGANIC INFILL GRANULE THAT IMPROVES THE UNIFORMITY OF THE PLAYING SURFACE, IS EASY TO INSTALL AND AVOIDS THE PROBLEMS OF COMPACTING THAT ARE TYPICAL OF OTHER ORGANIC FILLERS.



SAFETY

The components are sterilised during production, and heat-treated in order to protect the athletes' health and prevent the appearance of mould or fungus.

The organic plant fibres retain moisture, guaranteeing the perfect temperature under any conditions.

GeoMondo meets the requirement of the EN71 standard.



FINE TUNED SYSTEM®

PRE-MANUFACTURED FINE TUNED UNDERLAYMENT

UNIFORM AND CONTROLLED THICKNESS. THE FINE TUNED UNDERLAYMENT IS NOT Poured in place which can lead to inconsistency, but pre-manufactured under a strict factory controlled process.

PRE-MANUFACTURED FINE TUNED UNDERLAYMENT

Made of recycled tires triturated, treated and encapsulated sandwich-like between two polyester layers. The recycled rubber is encapsulated in polyurethane eliminating any contamination due to recycled tires.

The Fine Tuned System® eliminates the risk of compaction and migration of the granule compared to the traditional systems; this guarantees that the initial biomechanical characteristics of the field remain unchanged over time.

HORIZONTAL DRAINAGE SYSTEM

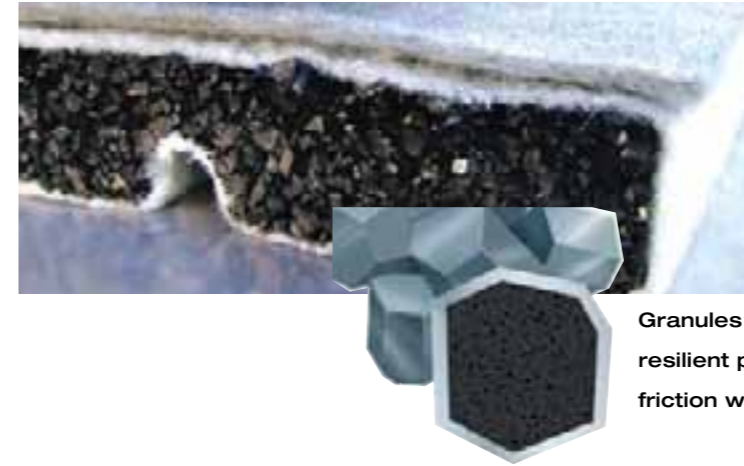


- Even under heavy rain conditions, the inclination of the pitch and the drainage of the membrane with the Fine Tuned System® provide water drainage towards the external part of the pitch.
- The Fine Tuned underlayment retains water and maintains a certain amount of humidity, which reduces the need to sprinkle the field prior to use.

UNIQUE IN ITS LOW ENVIRONMENTAL IMPACT

During the production, 70% of recycled materials are used.

The Fine Tuned underlayment is the innovative solution to recycle the infill granules without polluting the environment while safeguarding the athlete's health.



Granules are coated with polyurethane and glued together to create a resilient porous structure. The coating is protected from damage that friction would generate if granules were loose in the turf infill.

ATHLETIC PERFORMANCE AND SAFETY

- The consistency of play characteristics and performances across all the playing field ensure optimal play and an excellent ball behaviour.
- Excellent shock absorption and energy return allow the athlete to perform at the highest levels avoiding excessive muscular fatigue.
- Maximum safety helps to avoid risks of injuries.
- Guaranteed performances over time.
- The lower amount of granules prevents accumulation or deficiencies during the game.

QUICK INSTALLATION

The system is easy and quick to install and it ensures uniformity of characteristics and performances.

• Low Costs

Thanks to the limited civil works required on the existing base, the only requirements are to level the ground according to the necessary inclination for water drainage and to ensure proper compaction in order to avoid any low areas.

SPECIAL JOINT TAPE FOR FTS ROLLS



Patent pending

Savings

- Easy and fast installation
- No disposal costs
- Rolls can be installed even in humid conditions

Ecologic

No disposal of glue

Outstanding Durability

Mechanical action and not chemical

Performance

Thickness reduced - no stripes on pitch

The turf playing surface can easily be replaced at the end of its lifecycle: another field can be laid over the same Fine Tuned System® with considerable monetary savings



THICKNESSES AVAILABLE
With grooves for horizontal drainage
23 cm: FTS K-55
17 cm: FTS K-45
Without grooves for horizontal drainage
12 cm: FTS K-30



FTS3 MONDOTURF SYSTEM GUARANTEES EXCELLENT DYNAMIC PERFORMANCES AND SAFETY

BASED ON OUR RESEARCHES AND QUANTIFIABLE STUDIES, IT IS CLEAR THAT OUR ARTIFICIAL TURF SYSTEM CREATES THE CLOSEST APPROXIMATION TO NATURAL TURF AND, AT THE SAME TIME, AMPLIFIES THE DIFFERENCES WITH EXISTING TRADITIONAL INFILL SYSTEMS



ABSORPTION AND DAMPING PHASE

The alteration of the surface takes place progressively. **The optimal impact absorption protects the muscle-skeletal apparatus of the athlete, avoiding injuries caused by overload or strains.**

Progressive and controlled grip of the back studs guarantees high security for the initial impact and for the damping phase.

*Vertical Deformation. FIFA STAR ** The Handbook of Test Methods for Football Turf*

TOTAL LOAD

Vertical deformation (elastic area) is controlled. **FTS3 efficiently absorbs the impact caused by the weight of the player, protecting its muscle-tendinous apparatus.**

Energy loss is gradually hold, preparing the athlete to the push phase.

*Shock Absorption. FIFA STAR ** The Handbook of Test Methods for Football Turf*

PRE-PUSH PHASE

The product Ecofill®, made with rubber granules, helps studs' grip. **Rotational friction is under control: this helps the athletes during the load phase.**

This feature protects ankle, knee and hip articulations avoiding articulations and tendinous injuries.

The impact absorption guaranteed by the Fine Tuned System® **helps the rotational movement of the studs;** players gain great performance results thanks to the excellent rotational resistance.

*Rotational Resistance. FIFA STAR ** The Handbook of Test Methods for Football Turf.*

PUSH PHASE

The great dimensional memory shown by Ecofill® and the Fine Tuned underlayment **guarantee a perfect energy return.**

The push phase is effectively controlled and it guarantees maximum stud's contact to the turf.

*Rotational Resistance. FIFA STAR ** The Handbook of Test Methods for Football Turf.*



“Mondo and Adidas work closely together to guarantee

the best performance for each player”



FOOTBALL

THIS IS
FOOTBALL



MONOFIBRE 3NX FTS

Dtex 12000, 16000	Height 45 mm
Structure Two-color true monofilament yarn with three spines	Infill Ecofill® or SBR

MONOFIBRE 3NX

Dtex 12000, 16000	Height 60 mm
Structure Two-color true monofilament yarn with three spines	Infill Ecofill® or SBR

MONOFIBRE 4-PLAY

Dtex 11000	Height 60 mm
Structure Two-color true monofilament yarn	Infill Ecofill® or SBR

Artificial turf system with turf blades consisting of true monofilament fibers with three thick spines to increase resiliency. Recommended for professional soccer.

- Excellent durability
- High level technical performances
- Products tested according to FIFA 1 STAR/2 STAR requirements
- Infill: sand and Ecofill®, sand and SBR
- Elastic pre-manufactured Fine Tuned underlayment
- **12000 Dtex carpets available with thermo-bonded porous backing**

Artificial turf system with turf blades consisting of true monofilament fibers with three thick spines to increase resiliency. Recommended for professional soccer.

- Excellent durability
- High level technical performances
- Products tested according to FIFA 1 STAR/2 STAR requirements
- Infill: sand and Ecofill®, sand and SBR
- **12000 Dtex carpets available with thermo-bonded porous backing**

Artificial turf system with turf blades consisting of two-color true monofilament fibers. Recommended for soccer schools and training fields.

- Excellent durability and good technical performances
- Products tested according to FIFA 1 STAR requirements
- Infill: sand and Ecofill®, sand and SBR
- **Carpets available with thermo-bonded porous backing**





FUTSAL
7 A SIDE FUTSAL
INDOOR FUTSAL

SOCCKER **FOR ANY OCCURENCES**



MONOFIBRE 4-PLAY	
Dtex 11000	Height from 40 to 50 mm
Structure Two-color true monofilament yarn	Infill Ecofill® or SBR

Artificial turf system with turf blades consisting of two-color true monofilament fibers.
 Recommended for outdoor 7 and 8 a side football fields.

- Excellent durability and good technical performances
- Infill: sand and Ecofill®, sand and SBR
- Carpets available with thermo-bonded porous backing

MONOFEEL	
Dtex 12500	Height 60 mm
Structure Fibrillated yarn	Infill Ecofill® or SBR

Artificial turf system with turf blades consisting of controlled fibrillation fibers to avoid over-fibrillation.
 Recommended for outdoor 7 and 8 a side football fields.

- High durability and good technical performances
- Infill: sand and Ecofill®, sand and SBR



MONDOTURF NSF 88	
Dtex 8800	Height from 20 to 28 mm
Structure Parallel fibrillation pattern	Infill Sand

Artificial turf system with turf blades consisting of fibrillated fibers. Recommended for indoor applications and 5 a side football fields.

- High durability
- Infill: sand
- Carpets available with thermo-bonded porous backing

MONDOTURF NSF 66 R	
Dtex 6600	Height from 11 to 15 mm
Structure Fibrillated and twisted yarn	Infill Sand Optional

Artificial turf system with turf blades consisting of fibrillated and twisted fibers. Recommended for special indoor 5 a side football events that require fast assembly and disassembly of field.

- High durability
- Great elastic memory of the fiber, excellent ball bounce
- Possibility to use the system without infill





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centro

ONENTI PER RISU

RUGBY

RUGBY

KA MATE!
KA

ORA!



MONOFIBRE 3NX	
Dtex 12000, 16000	Height from 65 to 70 mm
Structure Two-color true monofilament yarn with three spines	Infill Ecofill® or SBR

MONOFIBRE 4-PLAY	
Dtex 11000	Height from 65 to 70 mm
Structure Two-color true monofilament yarn	Infill Ecofill® or SBR

MONOFEEL	
Dtex 12500	Height from 65 to 70 mm
Structure Fibrillated yarn	Infill Ecofill® or SBR

Artificial turf system with turf blades consisting of true monofilament fibers with three thick spines to increase resiliency. Recommended for professional rugby.

- Excellent energy return
- Excellent durability and high level technical performances
- Infill: sand and Ecofill®, sand and SBR
- **Systems available with FTS elastic underlayment**

Artificial turf system with turf blades consisting of two-color true monofilament fibers. Recommended for professional rugby and training fields.

- High durability and good technical performances
- Infill: sand and Ecofill®, sand and SBR
- **Carpets available with thermo-bonded porous backing**
- **Systems available with FTS elastic underlayment**

Artificial turf system with turf blades consisting of controlled fibrillation fibers to avoid over-fibrillation. Recommended for rugby schools and training fields.

- High durability and good technical performances
- Infill: sand and Ecofill®, sand and SBR



A wide-angle photograph of an American football game in progress on a green artificial turf field. The scene is captured from a low angle, showing the line of scrimmage. Players in red jerseys with white numbers and white helmets are on the right side of the frame, while players in orange jerseys with black numbers and black helmets are on the left. The number 76 is clearly visible on a player in the center. The background features a blue chain-link fence, a parking lot with several cars, and a range of mountains under a clear blue sky. Two tall stadium light poles are visible. The overall atmosphere is bright and active.

AMERICAN
FOOTBALL

UNITED
WE STAND!



MONOFIBRE 3NX	
Dtex 12000, 16000	Height from 45 to 60 mm
Structure Two-color true monofilament yarn with three spines	Infill Ecofill® or SBR

MONOFIBRE 4-PLAY	
Dtex 11000	Height from 45 to 60 mm
Structure Two-color true monofilament yarn	Infill Ecofill® or SBR

MONOFEEL	
Dtex 12500	Height from 45 to 60 mm
Structure Fibrillated yarn	Infill Ecofill® or SBR

Artificial turf system with turf blades consisting of true monofilament fibers with three thick spines to increase resiliency. Recommended for professional american football.

- Excellent energy return
- Excellent durability and high level technical performances
- Infill: sand and Ecofill®, sand and SBR
- Systems available with FTS elastic underlayment

Artificial turf system with turf blades consisting of two-color true monofilament fibers. Recommended for professional american football and training fields.

- High durability and good technical performances
- Infill: sand and Ecofill®, sand and SBR
- Carpets available with thermo-bonded porous backing
- Systems available with FTS elastic underlayment

Artificial turf system with turf blades consisting of controlled fibrillation fibers to avoid over-fibrillation. Recommended for american football schools and training fields.

- High durability and good technical performances
- Infill: sand and Ecofill®, sand and SBR



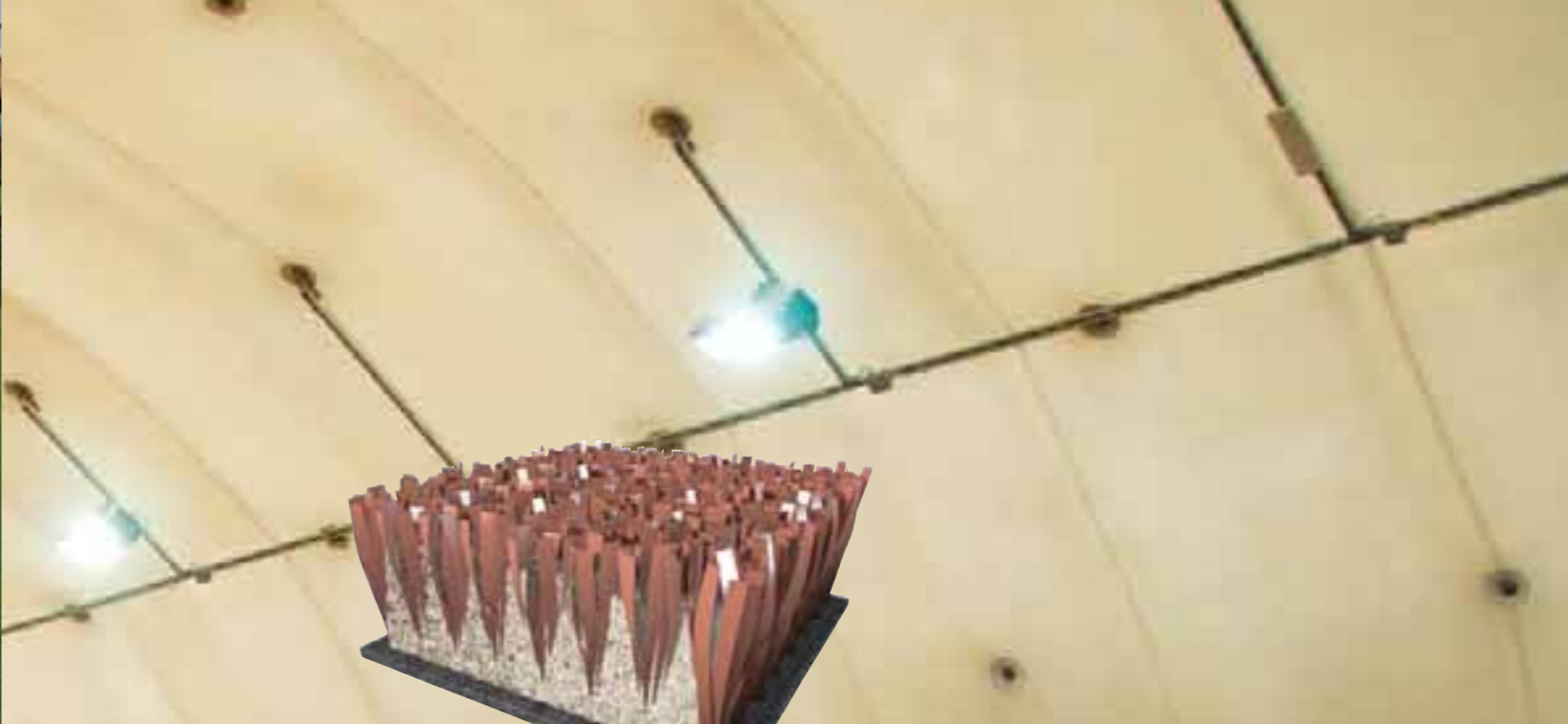
PADEL
TENNIS

PLAY,
SET, MATCH!



MONDOTURF NSF 66	
Dtex 6.600	Height from 10 to 12 mm
Structure Fibrillated yarn	Infill Sand

MONDOTURF NSF 66 R	
Dtex 6.600	Height 11 mm
Structure Fibrillated and twisted yarn	Infill Sand



MONDOTURF NSF 66	
Dtex 6.600	Height 15 mm
Structure Fibrillated yarn	Infill Sand

Artificial turf system with fibrillated yarn.
Recommended for tennis.

- Good shock absorption level
- Highly durable and good technical performances
- Available in green, blue and red

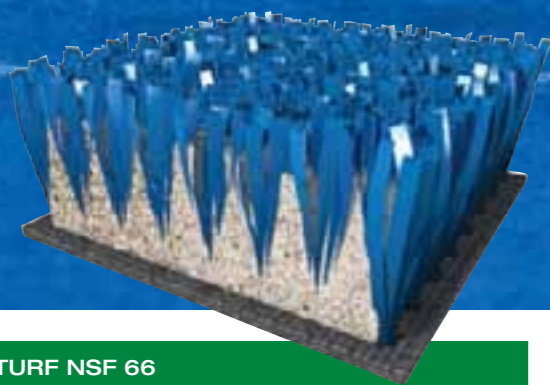
Artificial turf system with fibrillated and twisted yarn.
Recommended for professional tennis.

- Good shock absorption level
- Highly durable and good technical performances
- ITF approved: Category 4 – Medium / Medium Fast
- Long lasting
- Available in green and blue

Artificial turf system with fibrillated yarn.
Recommended for professional tennis.

- Good shock absorption level
- Highly durable and good technical performances
- ITF approved: Category 2 – Medium / Medium Slow
- Long lasting
- Available in green, blue and red





MONDOTURF NSF 66	
Dtex 6.600	Height from 10 to 15 mm
Structure Fibrillated yarn	Infill Sand

MONDOTURF NSF 66 R	
Dtex 6.600	Height 11 mm
Structure Fibrillated and twisted yarn	Infill Sand

Artificial turf system with fibrillated yarn.

Recommended for professional padel.

- Good shock absorption level
- Highly durable and good technical performances
- AJPP approved
- Available in green, blue and red

Artificial turf system with fibrillated and twisted yarn.

Recommended for professional padel and competitions.

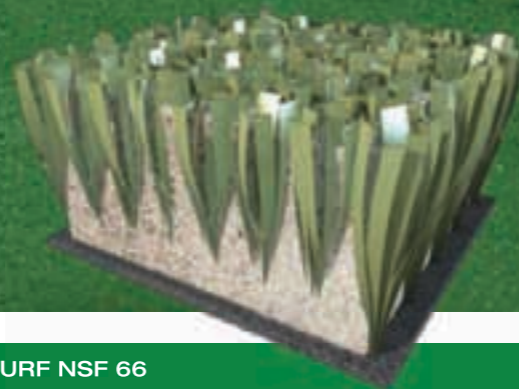
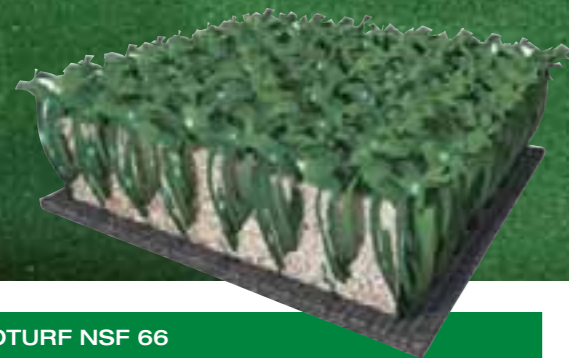
- Good shock absorption level
- Highly durable and good technical performances
- AJPP approved
- Available in green and blue



A photograph of two male hockey players in action on a green field. The player on the left is wearing a dark blue jersey and shorts, holding a hockey stick. The player on the right is wearing a white and blue jersey and shorts, also holding a hockey stick. The background is a blurred green field.

HOCKEY

PLAY,
DRIBBLE,
SHOOT



MONDOTURF NSF 66

Dtex
6.600

Height
11 mm

Structure
Fibrillated and twisted yarn

Infill
Sand

Artificial turf system with fibrillated and twisted yarn. Recommended for hockey schools and training fields.

- Good shock absorption level
- Highly durable and good technical performances

MONDOTURF NSF 66

Dtex
6.600

Height
18 mm

Structure
Fibrillated yarn

Infill
Sand

Artificial turf system with fibrillated yarn. Recommended for hockey schools and training fields.

- Good shock absorption level
- Highly durable and good technical performances



BASEBALL

GREAT
THROW!



MONOFIBRE 3NX FTS	
Dtex 12000, 16000	Height from 40 to 50 mm
Structure Two-color true monofilament yarn with three spines	Infill Ecofill® or SBR

MONOFIBRE 4-PLAY	
Dtex 11000	Height from 40 to 50mm
Structure Two-color true monofilament yarn	Infill Ecofill® or SBR

Artificial turf system with turf blades consisting of true monofilament fibers with three thick spines to increase resiliency.
Recommended for professional baseball and softball.

- Good shock absorption level
- Excellent durability and high level technical performances
- Infill: sand and Ecofill®, sand and SBR
- Elastic pre-manufactured Fine Tuned underlayment
- **12000 Dtex carpets available with thermo-bonded porous backing**

Artificial turf system with turf blades consisting of two-color true monofilament fibers. Recommended for baseball and softball schools and training fields.

- High durability and good technical performances
- Infill: sand and Ecofill®, sand and SBR
- **High durability and good technical performances**



GOLF

SSSSH HHHH!

4



MONDO TEE	
Dtex 8.800	Height from 20 to 28 mm
Structure Fibrillated yarn	Infill Sand

MONDO FAIRWAY	
Dtex 8.800	Height from 28 to 40 mm
Structure Fibrillated yarn	Infill Sand

MONDO RING GREEN	
Dtex 8800	Height 15 mm
Structure Fibrillated yarn	Infill Sand

MONDO GREEN	
Dtex 6600	Height 11 mm
Structure Fibrillated and twisted yarn	Infill Sand Optional

Mondo Tee offers a solution to one of the major problems in golf courts: premature wearing due to difficult maintenance of teeing grounds (or tee boxes).

- Thanks to its extraordinary characteristics, Mondo Tee guarantees always perfect teeing grounds (or tee boxes) even when used by amateur players.
- It offers the same resistance and versatility of natural grass.
- The multi-layer silica sand infill guarantees perfect look and adequate performance with or without a tee.
- It can be installed alongside natural grass.
- It can be installed in combination with any thickness of the elastic mat Fine Tuned.

Artificial turf system specifically designed for fairways.

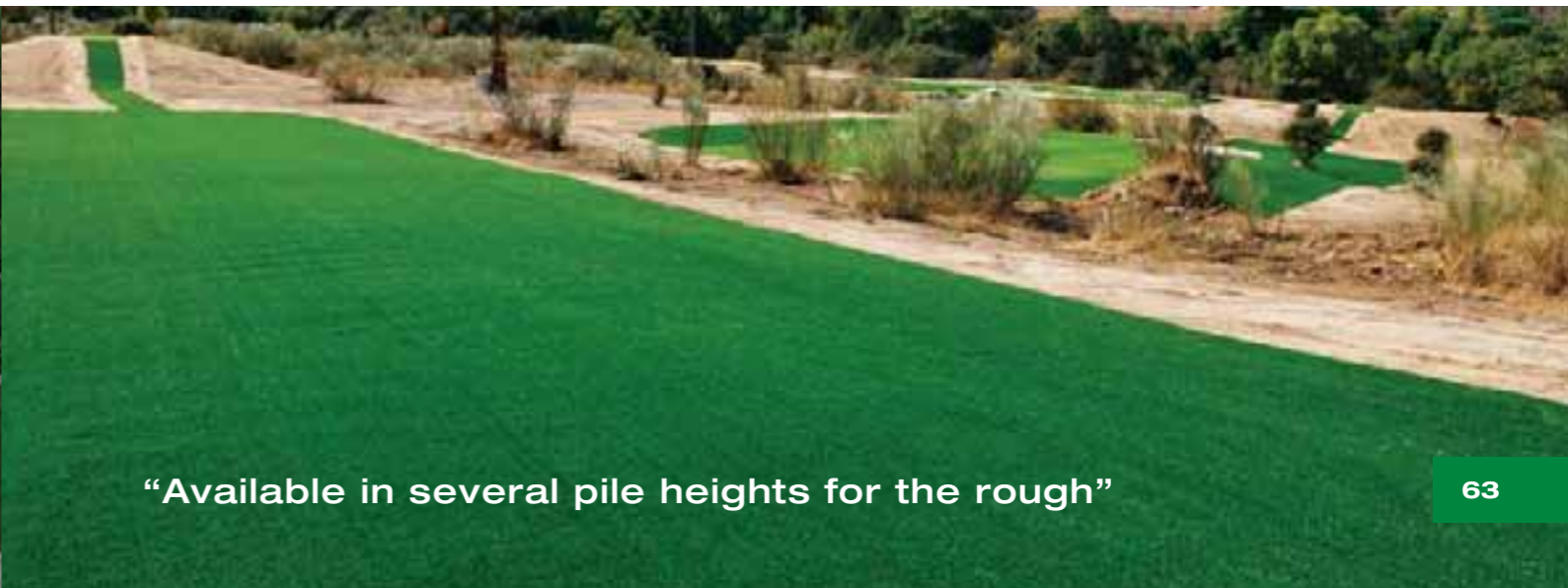
- It is based on studies performed on all types of clubs.
- The infill consists of silica sand.
- Ball behaviour is the same as that of natural grass.
- Fibers fibrillation and sand infill supply optimum density and stability, providing perfect foot support for optimum stance in dry and wet conditions. It is adequate for all types of shots and clubs.

Artificial turf system complementary to Mondo Green, to be installed around the greens.

- It is a soft, fibrillated turf system with sand infill that supplies the same performance and look as those of natural grass.
- It has been specifically developed and tested for chips and precision shots.
- Its great resistance to wear makes it perfect for training areas where players typically hit the ground and create divots.
- Ball behaviours during chip shots are the same as those of natural grass.

Artificial turf system specifically designed for greens; it has the same characteristics of natural grass.

- Color of fibers guarantees a natural look.
- The ball will not leave any marks even when impacting the ground after a 100 m fly.
- Thanks to fiber fibrillation and silica sand infill, the golf ball will roll just like it does on natural grass, following a precise trajectory even at low speed.
- It is possible to have fast greens or slow greens just by varying the amount of sand infill into the turf system.
- The behaviour of a back-spinning ball when it impacts the ground is the same as that of natural grass.



“Available in several pile heights for the rough”

SCOREBOARDS

At its design and research production center in Zaragoza, Mondo innovates and develops the best products for practicing sports. The quality of the sport equipment determines the final quality of an installation, to a great extent. After being created, each item is manufactured directly at Mondo's facility, where the production process can be controlled and supervised from start to finish.

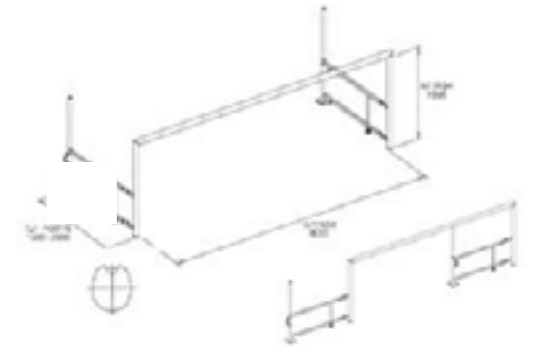
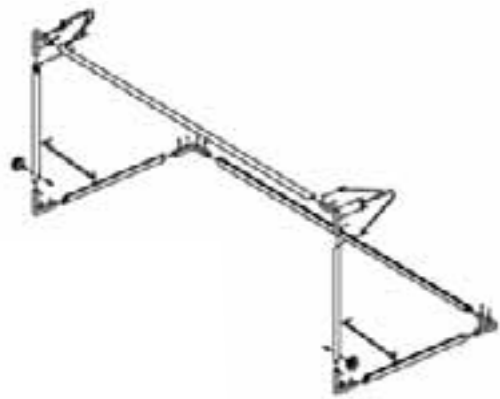


GOALS

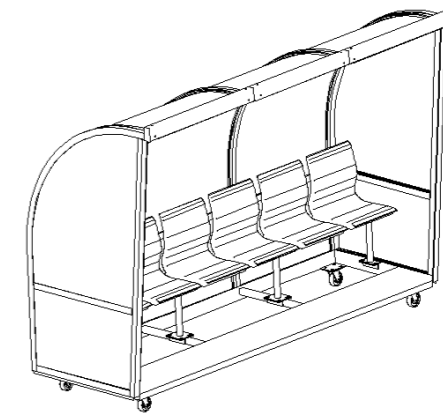
GOAL F-11



GOAL F-11



BENCHES



DISMOUNTABLE PLATFORM

Contains no screwed unions for fast and easy dismantling and remounting. Elements are joined together by means of housings and inserts that, once correctly in place, form a totally rigid and stable platform.



MONDOSEAT 1



MONDOSEAT 2



MONDOSEAT 3



MONDOSEAT 4



MONDOSEAT 6



MONDOSEAT 7



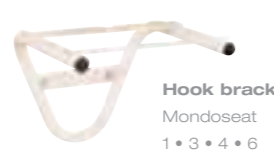
MONDOSEAT COLOR RANGE



ANCHORING AND SUPPORT SYSTEMS



Curved support
Mondoseat 2



Hook bracket
Mondoseat
1 • 3 • 4 • 6



One-arm support
Mondoseat
1 • 3 • 4 • 6



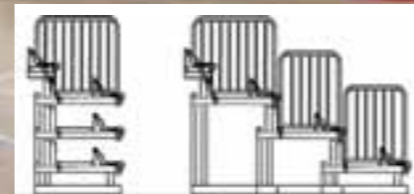
Seat base support
Mondoseat
1 • 3 • 4 • 6

TELESCOPIC PLATFORM

Telescopic platform seating with state-of-the-art technology is designed to satisfy all requirements and comply with current standards. Can be adapted to each installation's particular needs in terms of available space and end use.

OPTIONS

- Motorized or manual folding system.
- Front and/or rear passageway.
- Wide range of Mondoseat models.
- Non-slip paint or composite synthetic Mondo flooring available for passageways and stairs.



FINNAIR STADIUM





ATHLETICS



FOOTBALL



BASKETBALL



HANDBALL



BOCCE



VOLLEYBALL



CALCIO A 5



PADEL



BADMINTON



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