 **MONDO**

MONDOTURF SUPERCOURT



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WORLD
PADEL
TOUR

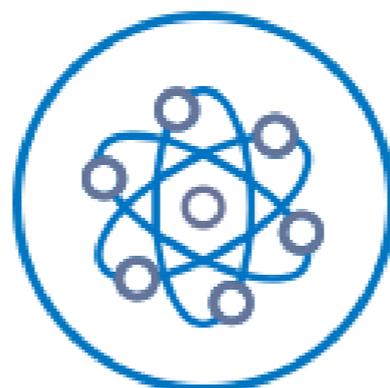
MONDO

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SUPER COURT
WE LISTEN. WE INNOVATE. YOU WIN



DIALOGUE



INNOVATION

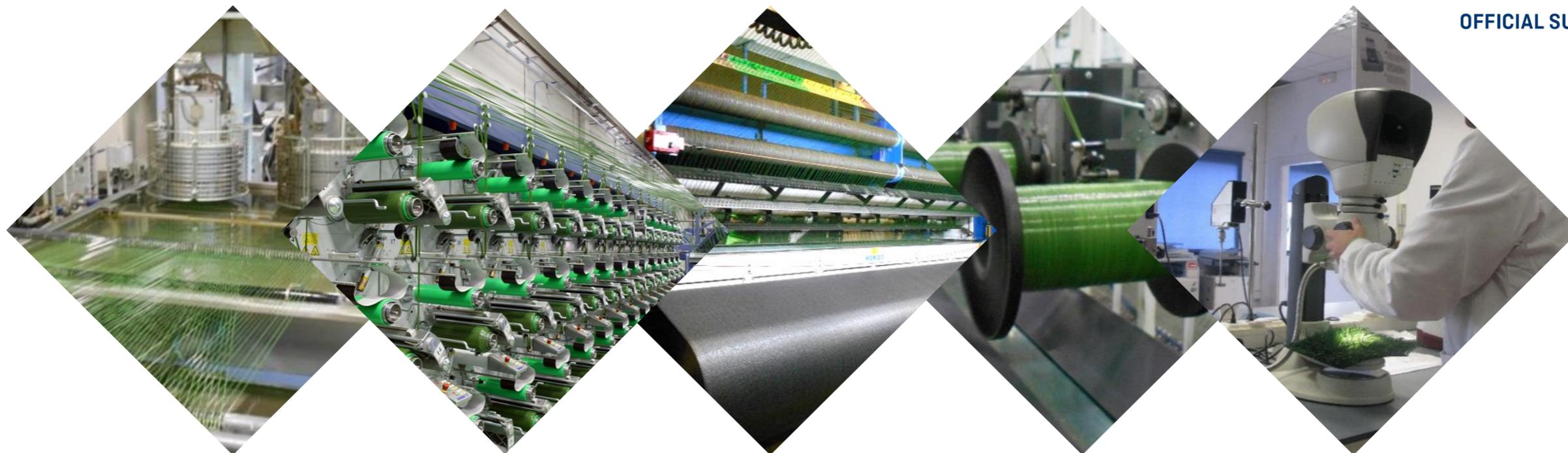


VICTORY

Thousands of athletes compete on MONDO surfaces every day all around the world reaching outstanding results , breaking world records and overcoming their own limits.

It is thanks to their help and constant feedback that we have redefined the standards of sports flooring, setting the benchmark for new achievements to come.

Our innovation process is conditioned by the dialogue with the athletes, coaches and trainers and people responsible for their health.



MONDO Tufting Production Center has two important research, innovation and development laboratories equipped with the best technical means and the most modern and advanced instruments. MONDO Tufting operates an R & D management system that's certified under the UNE 166002:2006 standard. This standard provides a set of guidelines for the optimized management of innovation in technology and R+D, offering a structured approach to innovation, research and development.

In addition, these laboratories carry out a rigorous quality control of raw materials and finished products over every stage of their life cycle, including their installation. MONDO Tufting meets the requirements of European Regulation (EC) No. 1907/2006, also known as the REACH (for Registration, Evaluation, Authorization and Restriction of Chemicals) regulation, which entered effect on 1 June 2007.

Products manufactured by MONDO Tufting have GREENGUARD Gold certification which guarantees the most stringent criteria in the identification of the factors affecting the more sensitive users of synthetic turf, and offers assurance that the product is suitable for use in places like schools and care institutions. It is referenced in the LEED (Leadership in Energy and Environmental Design) rating system.

MONDO Tufting actively collaborates with the best and most advanced research centers.



REACH COMPLIANT

MONDO Tufting meets the requirements of European Regulation (EC) No. 1907/2006, also known as the REACH, for Registration, Evaluation, Authorization and Restriction of Chemicals regulation, which entered effect on 1 June 2007

The purpose of this regulation is to ensure a high level of protection of human health and the environment against the risk that the manufacture, commercialization and use of chemical substances and mixtures may entail.



GREENGUARD GOLD CERTIFICATE

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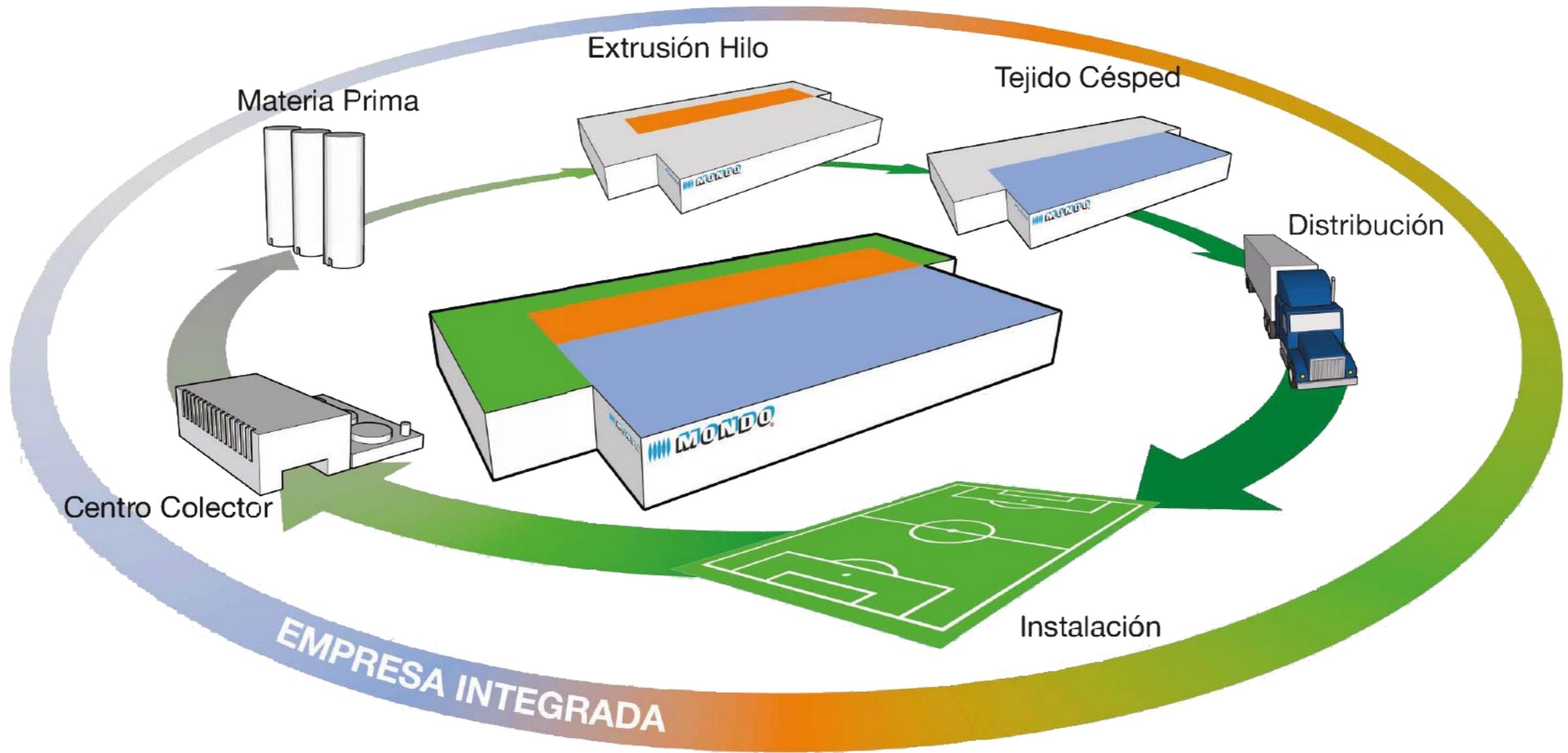


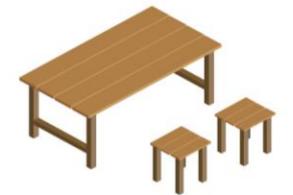
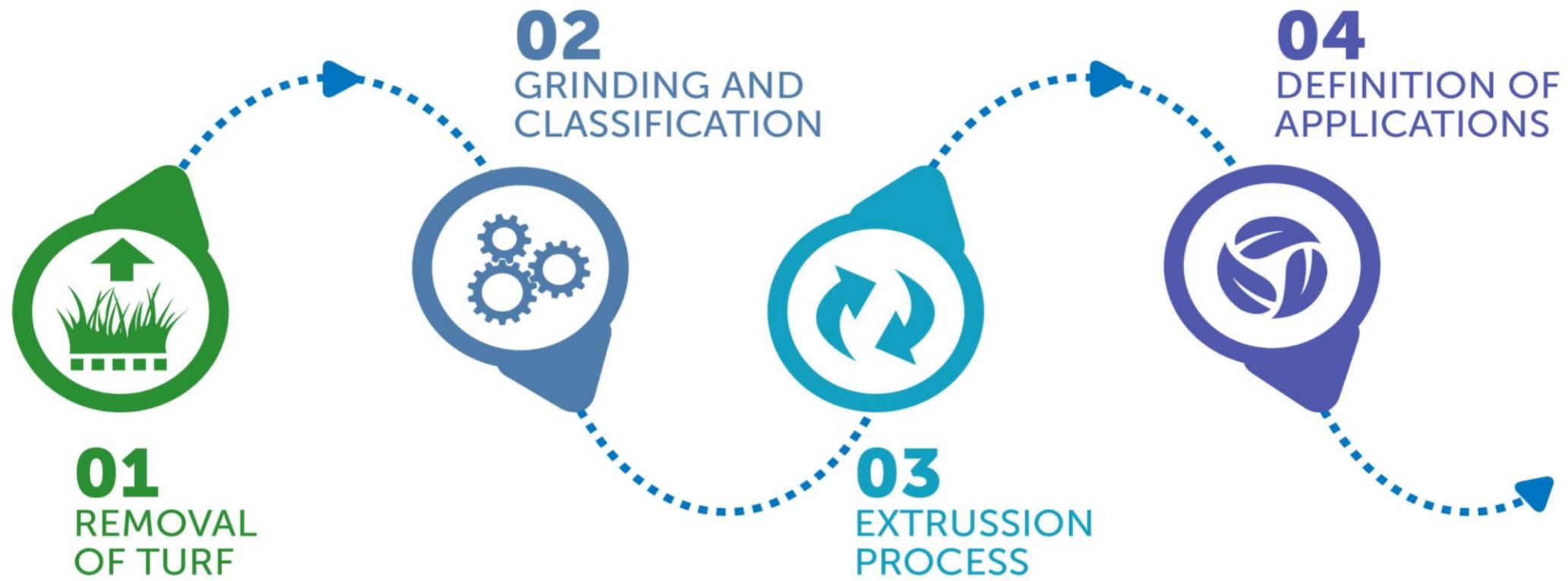
In [Borja near Zaragoza, Spain](#), it is placed the production center for the Mondo group's turf sports fields since 2002. With over [16,200 s.q.m.](#) produces artificial turf systems for football, American football, rugby, hockey, tennis, paddle tennis, etc. as well as decorative grass for the whole MONDO group around the world. MONDO TUFTING develops more than 20 different kind of MONDO NSF filaments (Natural Sliding Feeling) one of the components that comprise our turf field systems which are exported over 150 countries.

MONDO TUFTING has a production area with several extrusion lines where the exclusive and only NSF MONDO filaments are manufactured. In addition, they also produce all the different types of tissue of the different ranges of MONDOTURF products.

MONDO is a founding member of [ESTO \(European Synthetic Turf Organization\)](#)

Watch MONDO Tufting production center video: http://www.mondoworldwide.com/production_plants.cfm





TURF LIFE CYCLE

MONDO TUFTING

SPORT FEATURES. SPORT AND TECHNICAL FUNCTIONS

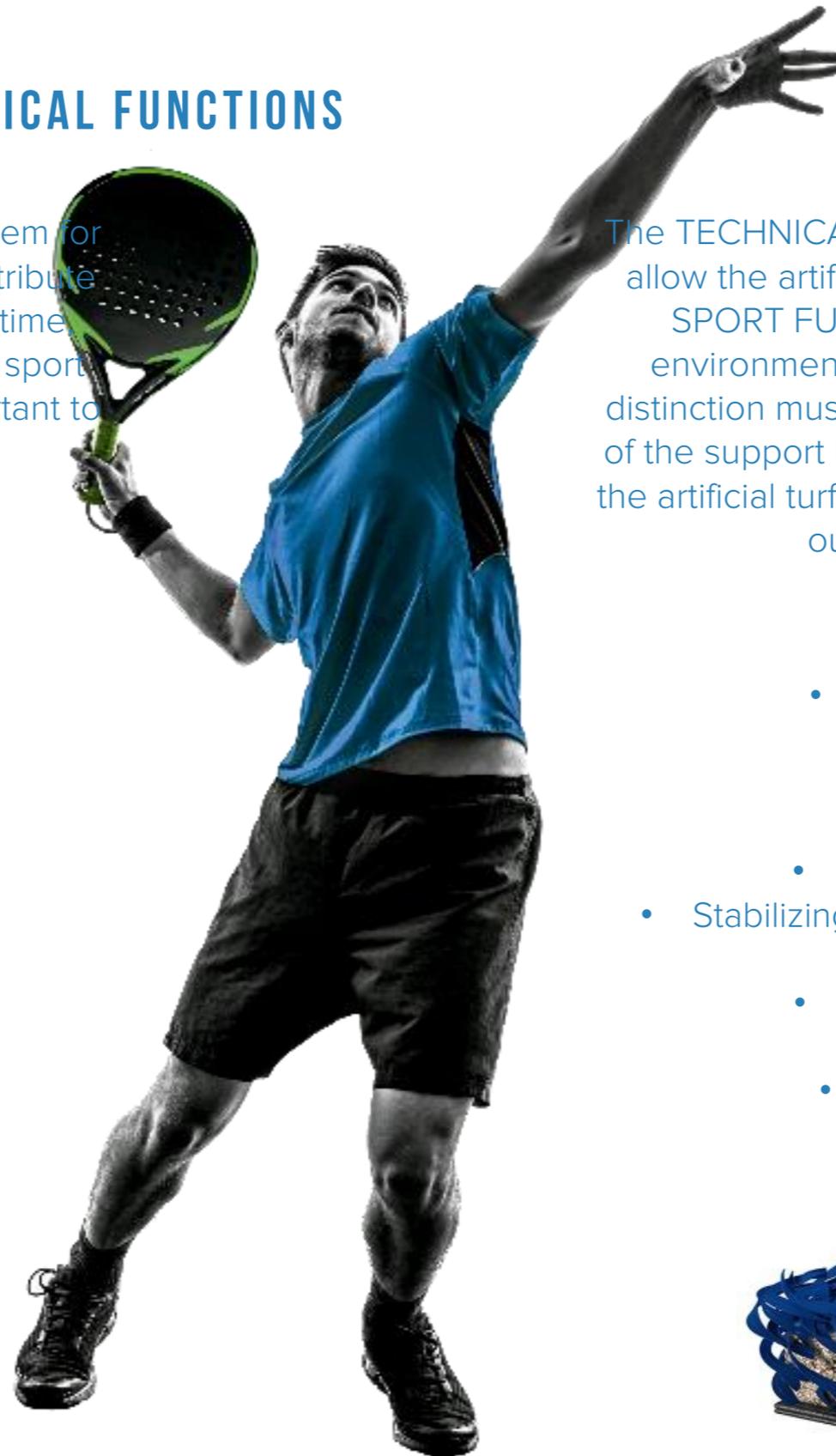
The **SPORT FUNCTIONS** of an artificial turf system for paddle includes pavement properties that contribute to reduce the risk of injuries and at the same time facilitate optimum player capability in terms of sport performance or game spectacularity. It is important to differentiate two aspects:

Player-artificial-turf-surface interaction

- Shock absorption
- Vertical deformation
- Rotational and linear traction (Grip)

Ball-artificial-turf-surface interaction

- Angular bounce ball
- Vertical ball bounce



The **TECHNICAL FUNCTION** includes the properties that allow the artificial turf surface to maintain its distinctive **SPORT FUNCTION** over time, depending on the environment and the use for which it is intended. A distinction must be made between the technical function of the support layer, or backing, and the actual system of the artificial turf surface. Some of the specific tests carried out on the playing surface are :

- Yarn dtex
- Number of Filaments/m2.
 - Yarn height
 - Yarn thickness
 - Yarn composition
- Stitches per linear dm / m2.
- Stabilizing infill: Quartz sand, rounded, washed and dried.
- Backing type / composition
 - Gauge
- Backing/coating weight.



TECHNICAL ASPECTS



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MONDO has been the official supplier of the World Padel Tour since the beginning of the Padel Pro Tour circuit (PPT). Our experience and mastery of Padel at a highly competitive level give us access to a unique understanding of the most demanding player's needs and allow us to transfer this knowledge to our Research & Development.

The evolution of our clients' needs is at the foundation of our products' technical development.

Strengthened by this experience, we have developed artificial turf systems for padel with the primary objective of improving the SPORT and TECHNICAL FUNCTION of our pitches.



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TECHNICAL ASPECTS

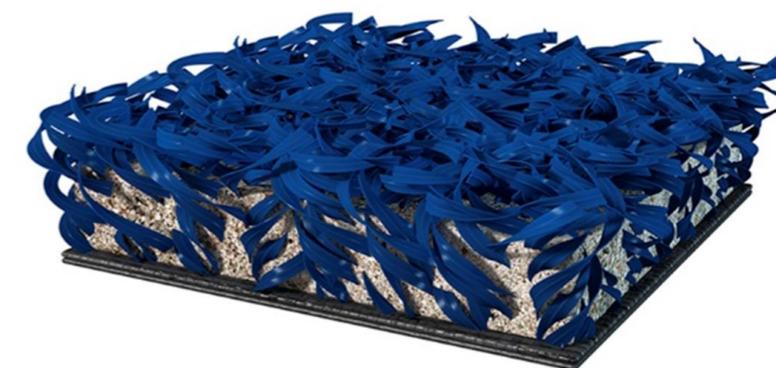
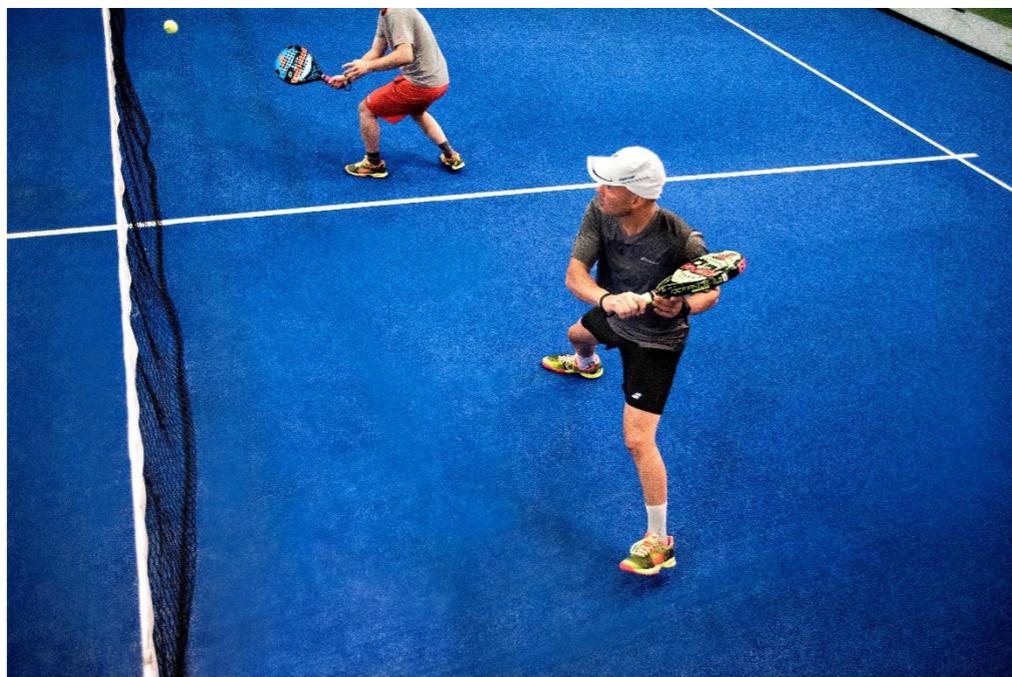
New STX Supercourt filament specifically for paddle

The new STX Supercourt monofilament maintains the success texturized monofilament concept but with significant innovations.

It is endowed with a texturized straight structure with a central rib which acts as a fiber tensioner.

The new optimized structure improves the durability of the narrowest part of the fibre, freeing it from the stress of the pressure created by the player's interaction.

We have reduced the thickness and increased the diameter of the fibre in order to give the ball greater speed on the pitch, as well as to reduce the wear of the same.



TECHNICAL ASPECTS

Maximum resistance:

The fibre has been subjected to severe stress tests and extreme use in the laboratory.

It has been demonstrated that the new morphological structure improves the capacity for recovery, considerably reducing the wear caused by the friction of the sand and maintaining the capacity for resistance to rotational and linear traction (grip) and the angular and vertical bounce of the ball.



Thickness of the filament:

Monofilament texturized. Own production Mondo Tufting of 13,500 Dtex.

The new thickness of 250 micron, combined with the exclusive texturized morphology, gives the fibres a greater capacity for elastic memory. The dimensional memory is produced by optimizing the fibre's capacity to return to its original state following player-surface interaction.

Strand width:

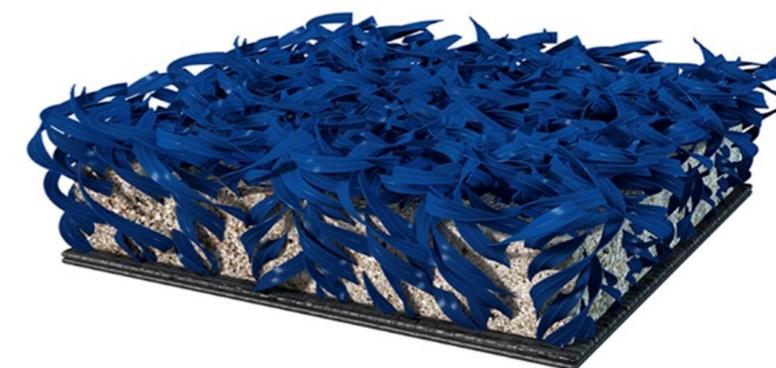
The filament's new width of 1.3 mm, combined with the new thickness and exclusive texturized morphology, gives the fibre greater resilience. The bounce of the ball is faster, more uniform, and more controlled, and with less wear: given that the felt remains in good condition for longer, the durability of the ball increases.

Filament weight (Dtex.):

Texturized monofilament weight of 13,500 Dtex.

Number of filaments:

Each filament is made up of 4 threads that increase the density of filaments per unit area.



- Improved athletic function:

A substantial improvement in the SPORT FUNCTION of player/surface and ball/surface interaction is obtained thanks to the fibre returning to its original state after the player's passage.

- Best installation process

The technical and stabilizing infills are produced quickly and efficiently, giving the pitch optimum conditions for use in less time.

- Greater dimensional stability

Stitches per linear dm/ Balanced area unit specially designed to provide the system with the best technical and sporting function.

Improvement of the technical characteristics and of the backing weight which significantly increases the dimensional stability of the pitch.

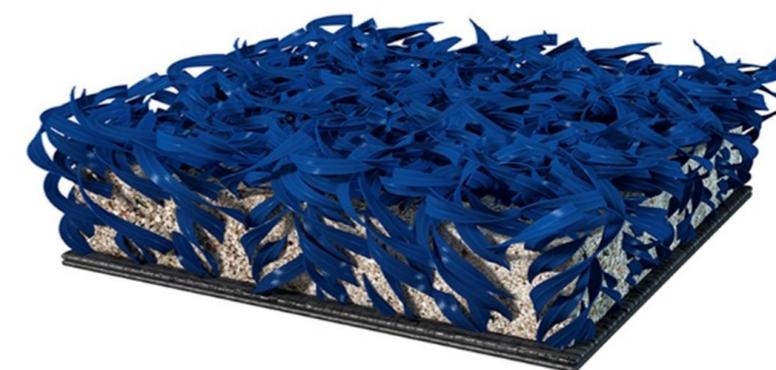
Possibility of choosing a pitch with drainage holes for outdoor paddle courts or without drainage holes for indoor paddle courts.

- Comfort Low density polyethylene.

The extrusion process of the STX Supercourt filament makes use of a new kind of low-density polyethylene, a new polymerization method, and a new catalysis process designed specifically for STX Supercourt

- Advanced Technology Creep-recovery.

In collaboration with ITA (Technological Institute of Aragón), new innovative methods of fibre recovery and new tests of the chemical, environmental, physical and mechanical characterizations have been employed.

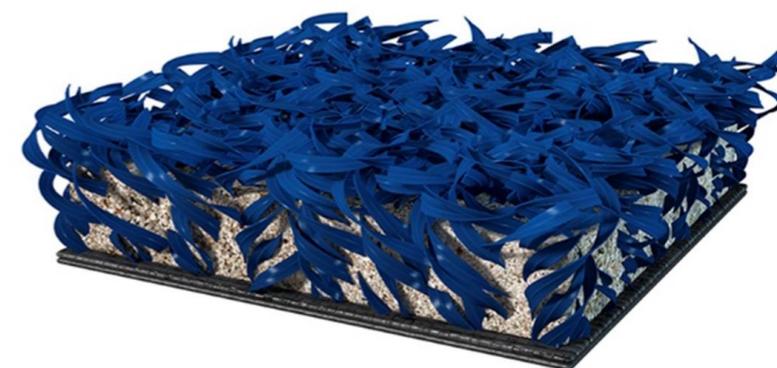


TECHNICAL ASPECTS

Developed specifically for the main pitch of the World Padel Tour and for sports clubs that wish to provide their members with the best technical features possible. The STX Supercourt version facilitates play on a surface with truly exceptional characteristics.

It requires a minimal amount of stabilizing sand (less than half that required by a traditional field with a height of 12 mm). The sand penetrates and embeds itself between the texturized fibres, providing an excellent athletic function given that it does not spread out irregularly on the surface.

- ✓ Uniformity and regularity of the angular and vertical bounce before and after bouncing off the glass, from the very first moment and at every point on the pitch.
- ✓ Speed of the angular bounce from the time of installation and at every point on the pitch.
- ✓ Excellent resistance to rotational and linear torsion. A secure, predictable, uniform, and controlled grip at every point on the pitch from the very first moment.
- ✓ Excellent aesthetic aspect. Visual uniformity and continuity of the surface. With no accumulations of sand. Minimal maintenance. With no repositioning or accumulation of sand.
- ✓ Excellent resistance and durability.

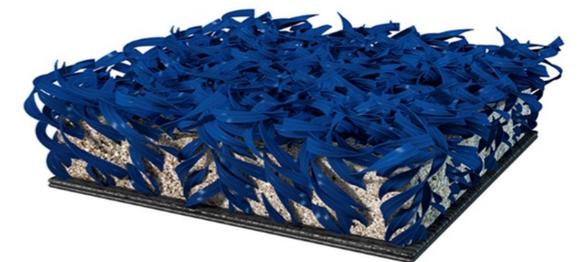


TECHNICAL ASPECTS



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SYSTEM APPROVED SPANISH FEDERATION OF PADEL CEMO 17/00023
UNE 14301 CERTIFIED SYSTEM: 2018



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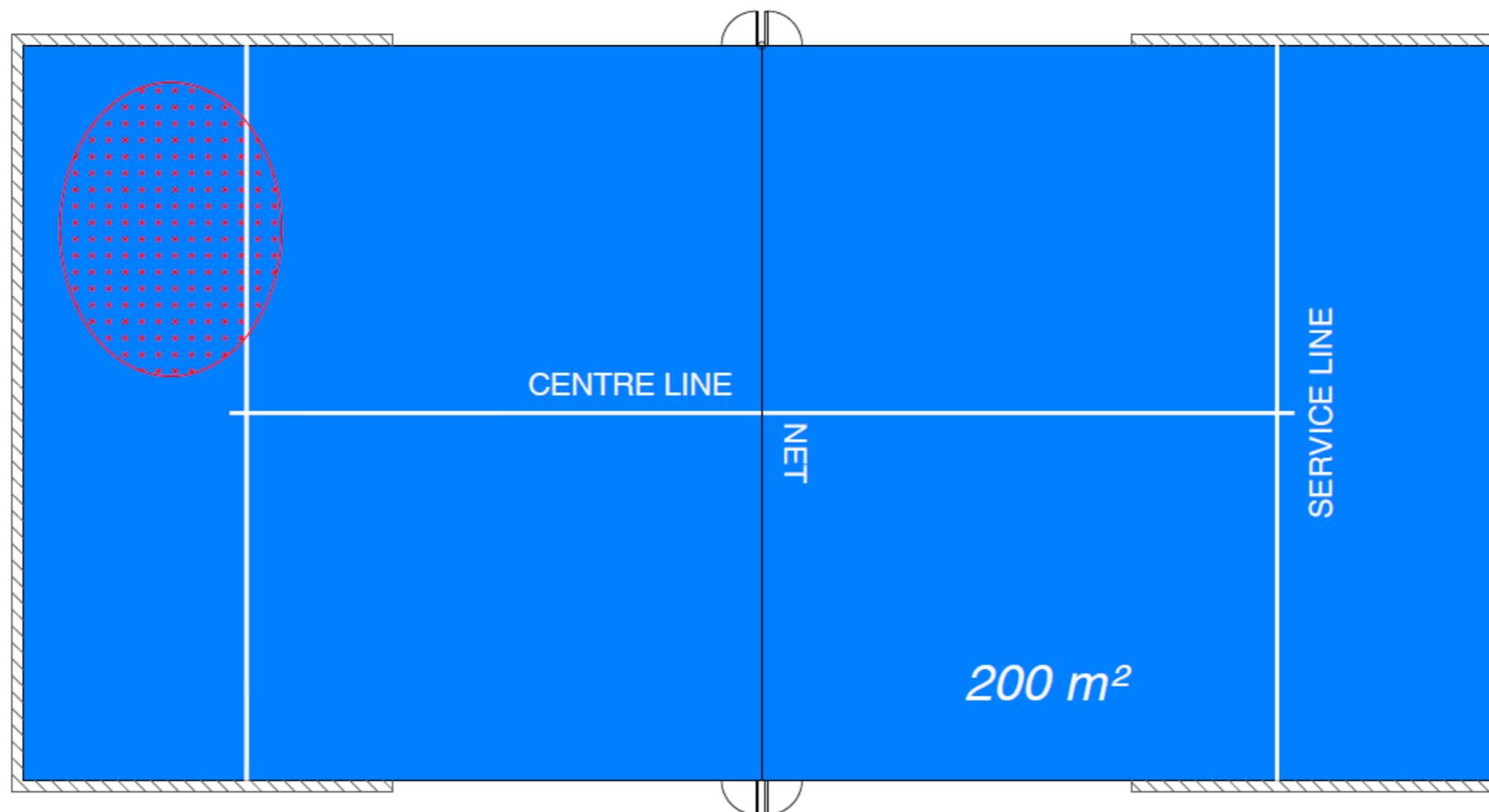


TECHNICAL ASPECTS

NEW LAYOUT PRODUCTION CENTER COURT WORLD PADEL TOUR

The Mondoturf Supercourt pitches are produced in a specific way with the same Layout as the center court of the World Paddle Tour circuit. This system provides clear benefits:

- No needs the game lines marking "in situ" so the adhesion joints are removed, and therefore the possibility of them to take off because the game lines are directly inserted in the pavement what also improves the player/surface and ball/surface interaction sport functions. No strange bounces take places in the approaches of the marking joints.
- It avoids some union joints of the turf rolls so, consequently, the nº of rolls is reduced and therefore that minimizes the possibility of taking off from the ground.
 - Installation time and installation materials (bonding tape and adhesive) are reduced.

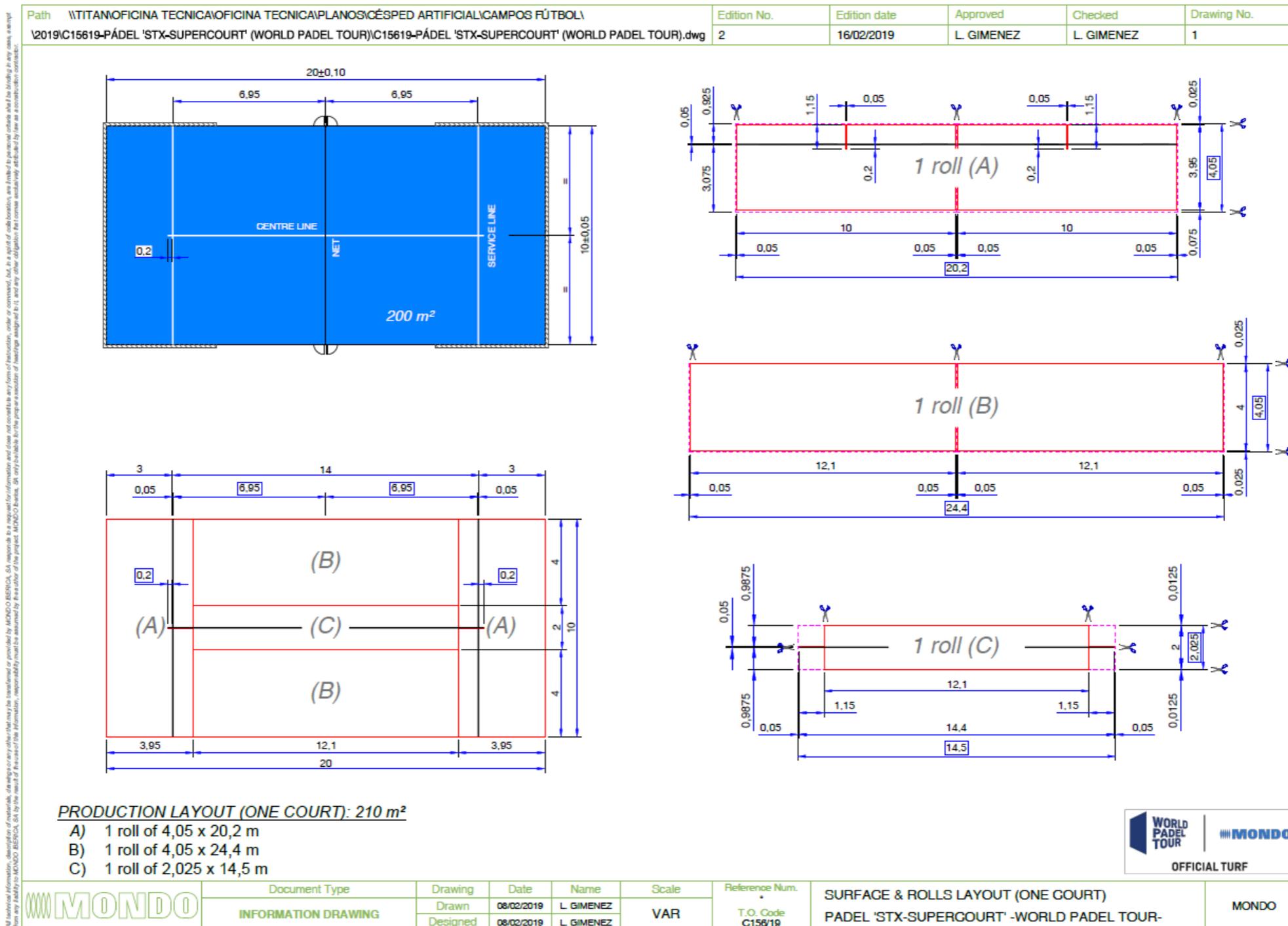


TECHNICAL ASPECTS

NEW LAYOUT PRODUCTION CENTER COURT WORLD PADEL TOUR



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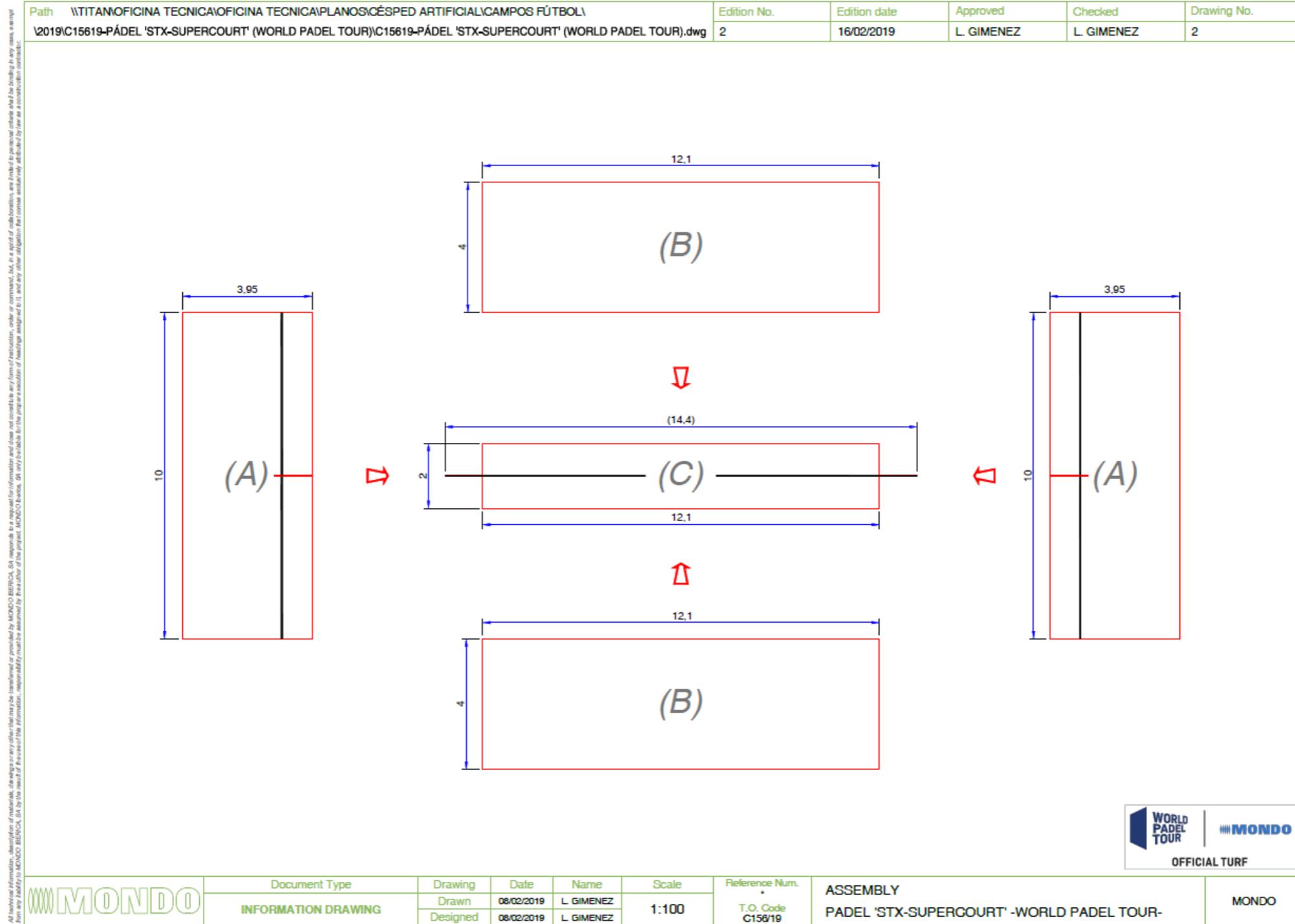


TECHNICAL ASPECTS

NEW LAYOUT PRODUCTION CENTER COURT WORLD PADEL TOUR



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MANUFACTURING PROCESS OF THE CARPET

COATING (PU) POLYURETHANE → DURABILITY OF TECHNICAL PERFORMANCES

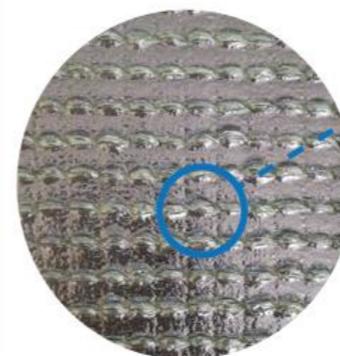
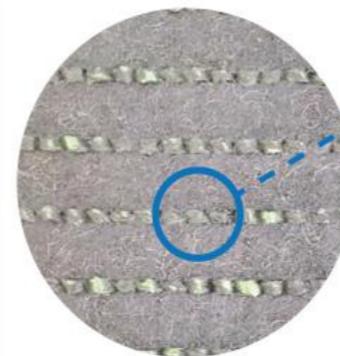
- ✓ Less coating quantity: Weighting around 600-700 g / m² (instead of 900-1100 of latex), excellent covering and optimum anchoring capacity and resistance to detachment of the filaments are obtained even in wet conditions and extreme temperatures
- ✓ Lower maturing temperatures: There is a significant energy saving and the filaments shrink less. Filaments stay less time exposed to high temperatures inside the finishing line.
- ✓ Better selection of raw materials: Backings perform with better quality (do not require fleece) and have greater dimensional stability.
- ✓ Faster manufacturing time: By polymerizing before the latex, the process can be accelerated (up to 6 m / min instead of 4.5 m / min). The performance of the polymer is proportional to the exposure time to high temperatures.
- ✓ Better adhesion ratio with the bonding tape and the PU glue: A better adhesion ratio is achieved thanks to the bi-component PU adhesive that it must be laid over the bonding tape between the rolls. Joints and line markings perform better and are more resistant.

CÉSPED ARTIFICIAL POLIURETANO VS LÁTEX



BACKING

Base donde se tejen los filamentos de césped artificial. Los círculos señalan los bucles/puntadas que se forman tras el proceso. Tras el tuftado se aplica un material ligante, que puede ser látex o poliuretano, con el fin de fijar correctamente los filamentos al soporte base.



Sección del bucle tras la aplicación del ligante:



Unión del filamento más débil. Peor unión de juntas. Pierde propiedades a baja temperatura. Calidad inferior. Solución más económica.



Unión del filamento muy resistente. Mayor resistencia al arrancamiento del penacho de filamentos. Mayor calidad como ligante. Excelente durabilidad. No se alteran sus propiedades a bajas temperaturas.

ENVIRONMENTAL ASPECTS



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ENVIRONMENTAL SECURITY AND PROTECTION FOR PLAYERS



REACH COMPLIANT

Este reglamento tiene como objetivo principal mejorar la protección para la salud humana y el medio ambiente frente al riesgo que puede conllevar la fabricación, comercialización y uso de las sustancias y mezclas químicas.

The main objective of this regulation is to improve the protection of human health and the environment against the risk that the manufacture, commercialization and use of chemical substances and mixtures may entail.



GREENGUARD Gold Certificate

The GREENGUARD Gold certification guarantees the application of more rigorous criteria in the identification of key factors which are of interest to the most sensitive users and guarantees the product's suitability for use in places like schools and healthcare facilities.

This certification falls under the LEED (Leadership in Energy and Environmental Design) classification system.



CARBON FOOTPRINT

ISO 14064-1:2006 specifies principles and requirements at the organization level for quantification and reporting of greenhouse gas (GHG) emissions and removals. It includes requirements for the design, development, management, reporting and verification of an organization's GHG inventory.



CSIC CERTIFICATE

The 'Consejo Superior de Investigaciones Científicas' certificate, state agency attached to the Ministry of Science, Innovation and Universities, certifies that Mondoturf artificial turf systems, including the ballasting components common to all of them, consist of **COMPLETELY RECOVERABLE COMPONENTS**.

Professional pitch, now affordable for everyone



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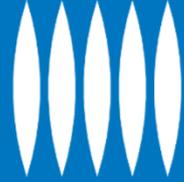


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- ✓ The STX Supercourt artificial turf system is manufactured entirely within the **MONDO Tufting** manufacturing facility in Borja, in Zaragoza, Spain, from the extrusion process of the fibre to the final weaving and finishing touches
- ✓ All Research & Development is conducted in collaboration with ITA, Technological Institute of Aragón, with internal technical and human resources, thus contributing to technological development.
 - ✓ **MONDO Tufting** is certified according to regulation UNE 166002:2006. **MANAGEMENT** of Research & Development: **REQUISITES** of the Research & Development **MANAGEMENT SYSTEM**

This law provides a regulatory framework which systematizes and supports the optimization of the management of technological innovation and Research & Development, making it possible to create a structure for technological processes and for Research & Development processes that develop within an organization.

- ✓ **MONDO** is a member of the Management Board for **INESPORT**, a technological platform of the Spanish sports industry, and actively collaborates in drawing interested parties together around a common vision for the development of the national sports industry, encouraging development and transfer, in addition to industrial innovation and the positioning of sports within the domestic industry.

