

PLAYING IN A TOTALLY DIFFERENT LEAGUE: THE NEW

T-TURF-GENERATION





THE NEW **CHAMPIONS.**

Today, the new **T-Turf generation** from **SPORTISCA** sets the standard in unfilled artificial turf for football. And it will continue to do so in the future as well. Innovative technologies authentically reproduce the playing and ball behaviour of real grass, together with an almost natural look and a previously unparalleled level of durability.

T-Turf S9 Revolution



T-Turf S6.09 Pro



T-Turf S6.09



Durability: 10

One outstanding quality of the new **T-Turf generation** is its durability. This is achieved by its groundbreaking design using a pile structure made of 100% monofilaments. The most eye-catching durability is achieved by our premium product, **T-Turf S9 Revolution**. It is striking because, even after years of use, hardly any change can be detected to the turf structure.

Impressive play and ball control: 20

The new **T-Turf generation** thrills players with clear improvements to the feel under foot, surefooted grip, and to the way the ball behaves.

Natural appearance: 30

Looks play their part: both players and fans place great importance on a highly natural look. The **T-Turf generation** scores in this respect too, as new fibre technologies make a structure possible that is visibly closer to the appearance of real grass.

Blades of varied length: 40

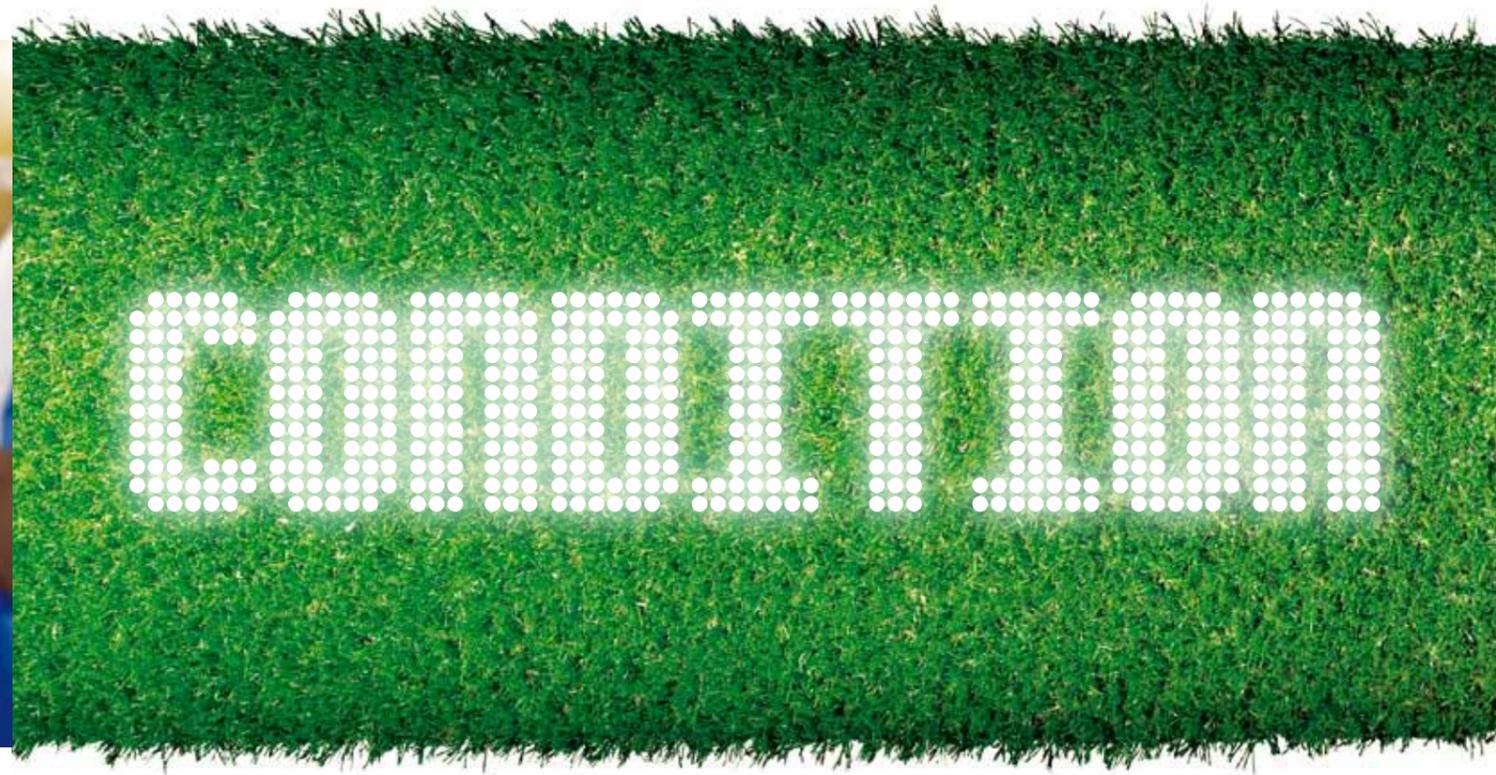
With what is an absolute world first, **SPORTISCA** has succeeded for the first time in giving even more natural qualities to artificial turf by varying the height of the pile through the use of blades of differing lengths. This improves the behaviour of the ball and creates an even more authentic look.

Reduced risk of injury: 50

It goes without saying that the well-being of the players is of absolutely core importance. Thanks to the new technology it has been possible to make significant advances here too:

- The turf's generally improved surefootedness and grip considerably reduce the risk of slipping and thus the associated danger of injury – not just when the pitch is new, but for its entire lifetime.
- Fibres kind to the skin cut down the risk of burns – even in very high temperatures.





Fewer joints: **60**

The company's ultra-modern production facilities in Urnäsch provide further manufacturing benefits: thanks to the **T-Roll™ system**, **SPORTISCA** is able to produce extra long rolls. These can cover the entire width of a football pitch, which reduces the number of joints and so the number of weak spots.

Hygienic and easy to clean: **70**

Thanks to **SPORTISCA's Triple-T Technology**, **T-Turf pitches** – despite significant fibre weight – are not tufted too densely and can therefore be completely cleared of dirt and impurities by rotary brushing. This effectively prevents any formation of moss or algae, which in turn benefits the product's hygiene and service life.

No static charge: **80**

As with past generations, the **T-Turf generation** too is permanently anti-static and thus keeps the players free of any irritating electric shocks.

Kind to the airways: **90**

Ecological considerations play an important role in every stage of projects at **SPORTISCA**. In the production process, for instance, we use no emollients or solvents of any kind, as a result of which **T-Turf products** can be safely used even in areas of groundwater protection. The cost of disposing of the turf in the future can also be kept extremely low – especially compared to filled products. Furthermore, our **T-Cycle disposal scheme** guarantees disposal of the turf in an all-round environmentally compatible way.



A LEADER WITH STAND-UP QUALITIES: **T-TURF S9 REVOLUTION.**

Standing at the pinnacle of the new generation of products is the innovative **T-Turf S9 Revolution**. The name was chosen with good reason, for its launch has marked the kick-off an era in which new standards and benchmarks for the whole market will apply.

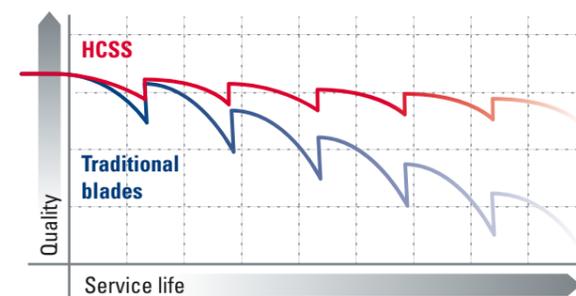
HCSS: a new type of fibre with near-natural powers of resilience. A central element of **T-Turf S9 Revolution** is HCSS, a newly developed fibre system whose groundbreaking qualities first made the technological quantum leap possible. HCSS stands for 'Hard Core – Soft Shell' and consists of hard core fibres that are embedded into a shell that is soft on the skin. This ingenious combination gives **T-Turf S9 Revolution** what in many respects are peerless advantages:

Previously unattained durability.

Thanks to their great ability to return to their previous form, the strong core fibres of the HCSS system make the blades' recovery cycles extremely short. The upright position of the blades gives the pitch a better look. But that's not all. They also enable the functional playing qualities of the turf to be kept constant over practically its entire life. The benefits are clear: thanks to its significantly longer usable life, **T-Turf S9 Revolution** gives you valuable protection for your investment plus the certainty that you have chosen what is in every sense the most sustainable product.

Consistent playing conditions.

The functional properties of **T-Turf S9 Revolution** also hardly alter from one maintenance interval to the next, thus massively increasing its practical usefulness and extending this by many seasons compared with traditional products.



Natural appearance.

In terms of appearance, too, new **T-Turf S9 Revolution** opens up new vistas, thanks both to the blades being less densely arranged and to their haphazard position – akin to natural grass. The unnatural ‘brush look’, which is traditional artificial turf’s biggest visual handicap, is thus finally a thing of the past.

An authentic playing experience.

Both professionals and amateurs will be as happy after playing on **T-Turf S9 Revolution** as the blades are upright – even after many years of use. The pleasure gained from playing the game, a key factor in the success of any ball sport, is directly proportional to the quality of the playing surface. **T-Turf S9 Revolution** has all-round winning qualities in this respect, too:

• Slower ball roll

The high resilience of the fibres used enables us to significantly reduce the density of the effective pile, making it similar to natural grass. This has a positive effect on the speed at which the ball rolls, a factor often criticised on artificial pitches.

• Grip and agility

The high capacity of the fibres to restore their form and the interaction within the fibre system produce excellent grip. This not only creates more secure footing, but also enables faster changes of direction and stronger tackles.

• Near-natural bounce

When the ball strikes the turf, the highly resilient properties of the fibre system result in more energy getting absorbed. This makes the ball bounce more like it does on real grass.

• True ball roll

The haphazard, near natural positioning of the blades considerably reduces the problem associated with products tufted in one direction and makes the ball roll more evenly and truly.

Sparing use of raw materials.

Another benefit for the environment: relative to the need for high quality, significantly fewer resources are used. For instance, in an HCSS system it is possible to reduce the use of valuable raw materials by up to 20% by comparison with traditional products – while simultaneously creating a stronger and higher-quality product.

No leaning to one side.

The haphazard positioning of the blades on the different layers of pile prevent them being physically pushed down in one direction, as the design provides equal resistance on all sides. This avoids any physical wear and stops the blades leaning to one side and thus making the surface seem artificial.

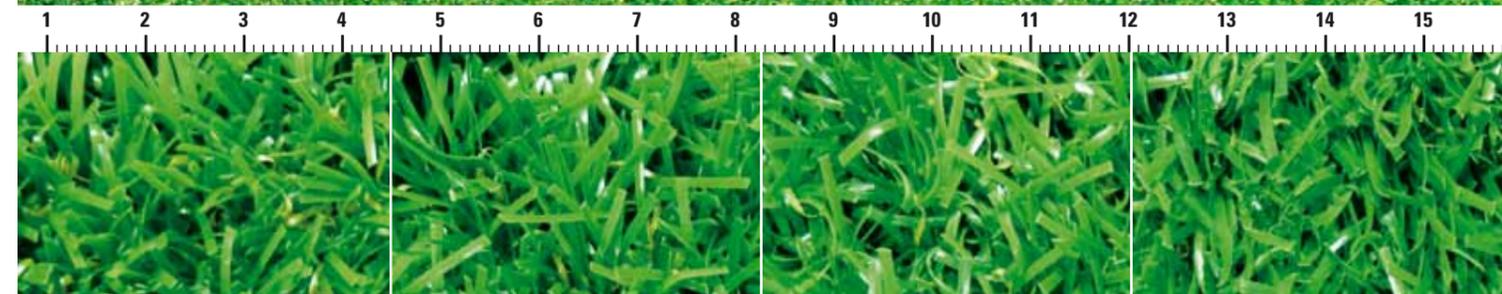
Optimum skin-friendliness.

Only turf that is kind to the players’ skin is good turf. For **SPORTISCA**, this recognition is both a trademark feature and a commitment. HCSS fibres are, for instance, extremely kind to the skin, achieving excellent results.



HCSS: a Sportisca innovation sets new standards.

The HCSS fibre system, with its skin-protecting polyethylene shell and resilient polyamide core, is a patent-pending **SPORTISCA** innovation that is a product of many years’ development work done carried out in cooperation with Empa, the Swiss Federal Institute of Materials Testing and Research.



A sophisticated intensive test run by the Institut für Sportbodentechnik (Institute of Sports Surface Technology) impressively proved, among other qualities, **T-Turf S9 Revolution’s** extraordinary durability.

No detectable change to fibres after 5,200 Lisport cycles

Very minor change to fibres after 12,200 Lisport cycles

Minor change to fibres after 20,200 Lisport cycles



PERFORMANCE AND ADDED BENEFITS:

THE NEW T-TURF S6.09 PRO.

Another premium product of the new generation is the completely updated **T-Turf S6.09 Pro**, an enhanced version of its predecessor that has been improved in many ways.

More grip.

Through a marked increase in rotational resistance it has been possible to achieve a major improvement in the turf's grip (and thus the sure footing it provides).

Even kinder to the skin.

While the previous version was already very kind to the skin, here too we have succeeded in making significant improvements: based on contemporary skin abrasion tests, **T-Turf S6.09 Pro** is no less than 20% kinder to the skin.

Better for longer.

Uncompromising, exclusive use of new, resilient monofilaments has enabled resistance to wear to be significantly improved.

REDEFINING RAISED STANDARDS:

THE NEW T-TURF S6.09.

For many amateur sports projects a standard solution is the most beneficial option and thus the right choice. **SPORTISCA's** base version, **T-Turf S6.09**, is an outstanding product in every respect and thus also sets new standards in this segment of the market.

Runaway success.

As our best-selling unfilled football pitch system, **T-Turf S6.09** has already proved itself many times over and features, in particular, great value for money and ease of maintenance. The new version of this classic product remains true to its

focus on high performance and continues to provide all of its former benefits. At the same time it has once again set the bar for this standard even higher, impressing not only through increased durability but also through its fine properties in relation to grip and adhesion. For everyone focused on good performance, the new **T-Turf S6.09** therefore provides an ideal entry point into the world of unfilled artificial pitches.



THE SPORTISCA SYSTEM COMPONENTS.

Triple-T Technology

The tried and tested, patent-pending **Triple-T Technology** is based on three different pile layers whose functions complement each other perfectly. This is in contrast to traditional systems, which consist of just two layers. Through their perfect interplay the interactive fibre systems form the basis for outstanding functional playing qualities, which make any infilling of the artificial turf, with all its drawbacks, superfluous. The three-layer pile and backing technology makes it possible to accommodate players' needs much more systematically and allows the construction to be appreciably improved in terms of quality and durability.

A central characteristic of **SPORTISCA's** new **T-Turf generation** is the exclusive use of monofilaments in every pile layer. This significantly increases resilience and thus the length of usable life.

T-Back

The complex backing structure provides strong anchoring of the fibres, prevents any excessive vertical deformation and thus stops studs from sinking in too deep. Three perfectly coordinated backing materials also give the artificial turf an extremely high degree of dimensional stability, tensile strength and climatic resistance.

T-Roll

Thanks to the **T-Roll™ system**, **SPORTISCA** is able to produce extra long rolls that are long enough to cover the entire width of a football pitch. This minimises the number of joints and avoids weak spots.

THE ENVIRONMENT WINS TOO.

Ecological considerations play an important role in every stage of all projects at **SPORTISCA**. Taking a careful approach to our use of all resources and a long-term view of integrating environmental aspects are not matters to which we just pay lip service: they are a fundamental part of our corporate philosophy.

Ecological compatibility

No emollients or solvents of any kind are used in our production processes, as a result of which **T-Turf products** can be safely used even in groundwater protection zones.

Environmentally friendly production

SPORTISCA T-Turf is produced in compliance with extremely strict ecological guidelines. Through active membership of the 'Gemeinschaft umweltfreundlicher Teppichboden GUT' ('Society for Environmentally Friendly Textile Floor Coverings'), we undertake to check products for any harmful chemicals or emissions, to adhere to defined environmental standards in our production operations, and to work together on appropriate enhancements.

Reducing CO₂

Through our voluntary declaration of enrolment in the CO₂ reduction programme being run by the Energie-Agentur der Wirtschaft (Swiss Industry Energy Agency, EnAW), **SPORTISCA** is committing to actively reducing CO₂ emissions and to optimising energy efficiency.

Short delivery distances

As the only Swiss producer of artificial football turf, **SPORTISCA** provides the benefit of no long-distance transport.

Integrated disposal scheme

The cost of disposing of the turf in future can also be kept extremely low – especially compared to filled products. Furthermore, our **T-Cycle disposal scheme** guarantees disposal of the turf in a completely environmentally compatible way.

In-house water recovery

Latex effluent gets treated by our own procedure and then recycled.





OUR COMPANY



SPORTISCA is manufactured in the Appenzellerland region of Switzerland by **TISCA TIARA**, the country's leading producer of textile floor coverings. From the outset, the company has always been fundamentally committed to quality, reliability and sustainability. These values have given **TISCA TIARA** the reputation that it now enjoys around the globe. What was founded in 1940 by Anton Tischhauser Senior as a very small business is today a Corporate Group operating on a worldwide scale. It is made up of four divisions: **Carpet & Rugs, Fabrics, Mobility Textiles** and **SPORTISCA**.

TISCA TIARA is an independent, family-run company and can thus guarantee to act for you as a reliable, constant partner.

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