



POWERgrass

TRACTION • STABILITY • SOFTNESS



HYBRID GRASS SYSTEM



Made in Italy



Akhmat Arena - Grozny
Chechen Republic
RUSSIA

**Perfect symbiosis
for protected
synthetic fibres
and resistant
natural grass!**

Increased playing
hours, with
regular and easy
maintenance!



PERFORMANCE and SAVINGS

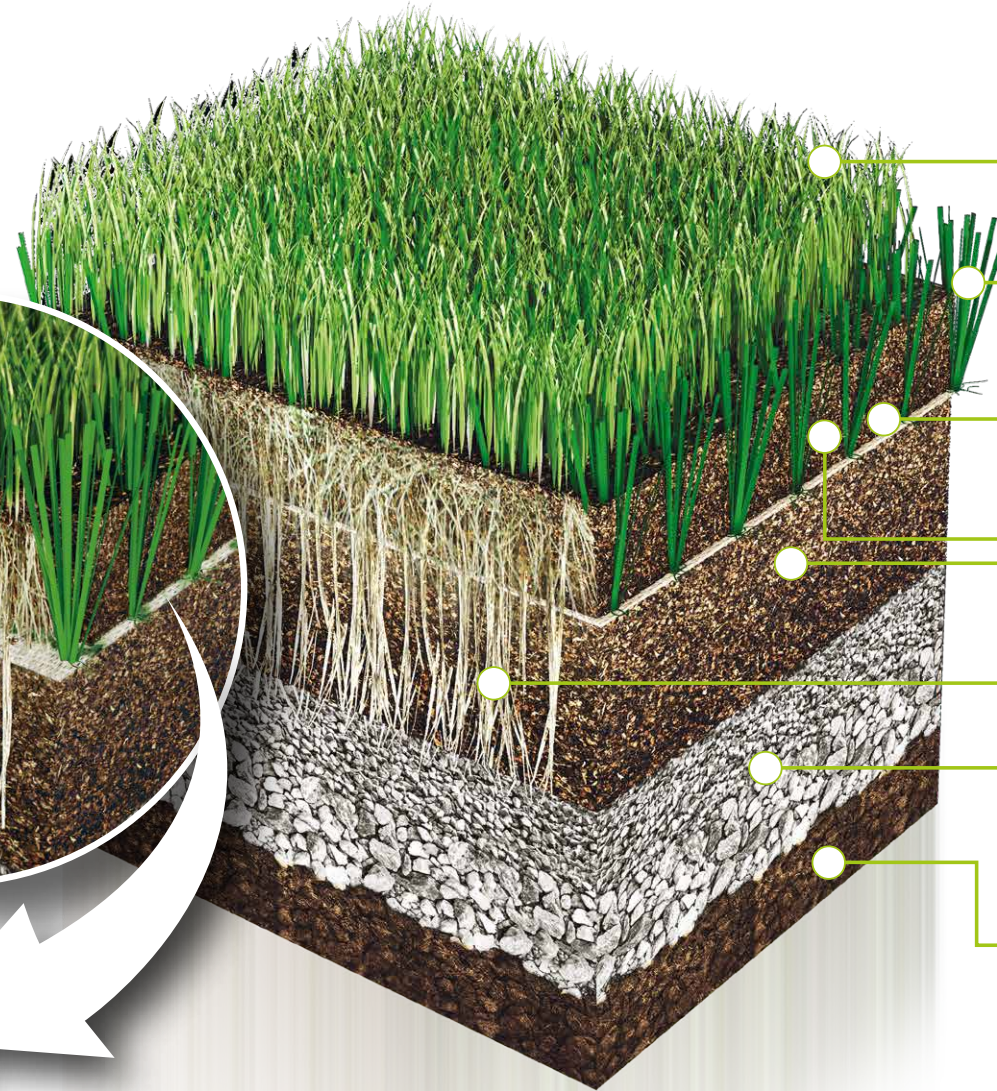
Long duration, with
amortization plan
in 20 years that
generates savings
compared to any
other surface!

The first hybrid grass system
that combines the advantages
of natural grass and synthetic
turf with reduced maintenance,
that is cost effective!

POWERgrass
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PLAY ALWAYS

on synthetic turf or
on reinforced
natural grass



Natural grass protected and reinforced

Resilient **synthetic fibres** support players and protect grass crowns

The **backing** mitigates heat or frost stress and facilitates exchange $O_2 - CO_2$

Growth top-soil, above and below the backing with mix of USGA sand & **ZOE sand**

Grass roots, since the early days of growth, penetrate and anchor on the backing

Drainage layer, allows horizontal water movement in the rootzone and removes rapidly the water in excess

Existing soil, well levelled and compacted



LC-HM technology fastens the fibres to a 3D knitted backing

PATENTED BACKING & LC-HM

Advantages

- 1** GREATER TRACTION, STABILITY AND SOFTNESS -> ENHANCE PLAYER'S PERFORMANCE AND REDUCE THE RISK OF FALLS
- 2** PREDICTABLE BALL BOUNCE -> IMPROVE PLAYER'S ACTIONS
- 3** NATURAL SHOCK ABSORPTION AND ENERGY RESTITUTION -> PREVENT MUSCLES PAIN AND INJURIES!
- 4** EASY TO MAINTAIN -> REDUCE COSTS AND PROVIDES ALWAYS PAYABLE PITCH
- 5** ECO-FRIENDLY PITCH -> PRESERVE HEALTH, RESPECT THE ENVIRONMENT

The **grass reinforced** with synthetic turf

Performance - Safety - Playability

- Optimum Play & Performance**
Greater shoe surface grip providing a higher level of ball control
- Improved Safety**
Soft and stable surface, producing fewer divots and reduction in player injury
- Consistent Play**
All year round surface, playable in all-weather conditions with a low maintenance regime



SHOE - SURFACE INTERACTION

SPECTACULAR PLAYERS ACTIONS

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PROVIDE THE PITCH TO PLAY BETTER AND SAFER IS OUR GOAL

The stable and secure playing surface, the ball bounce and the comfort of natural grass, are features desired by the player. POWERgrass® offers confidence to players for spectacular actions.



TRACTION

**POWERGRASS®
HYBRID GRASS SYSTEM**

Allows players to give their best, playing a spectacular game safely.



STABILITY

SOFTNESS



RESEARCH AND DEVELOPMENT

ZOEsand
FERTILITY • POROSITY • SOFTNESS

Ideal growth conditions
and performance

LOOKING FOR PERFECTION

Thinking outside of the schemes and testing alternative options we developed the POWERgrass® solution to build the ideal sport pitches. POWERgrass® system integrates USGA-sand and a mineral-organic soil conditioner selected in our testing plots.



▶ a specific synthetic carpet, studied by an agriculture engineer expert in natural grass and a qualified producer of synthetic turf



▶ innovative growth medium with excellent performance provided by renewable resources



▶ testing all types of soil conditioners, we developed **ZOE**sand

EXPERIENCE

Years of research and experience on many installations confirmed the system requires **reduced maintenance**, compared to any other grass surface.

Natural grass grows better inside this synthetic turf, both in the summer and in the winter, because the temperature is more stable.

The damaged grass recovers quickly, because the grass crowns are protected and generate new seedlings after intensive use.

In June 2014, the system has been **approved by the Italian Football Federation** for the construction of professional football pitches.

Innovation

POWERgrass® system comprises a **synthetic carpet** with unique characteristics:

- the carpet is made of **robust and resilient** synthetic fibres fastened with **tuft-binding force >30N** on a special designed artificial backing
- the backing is **soft and elastic** to prevent surface hardness, allowing also vertical deformation
- the backing has a 3D shape with about **320.000 voids per square meters** with irregular shape, sized to **promote gas exchange** and **prevent sand migration** maintaining overtime the backing's properties
- the backing has an **isolation effect** to protect grass roots reducing heat and frost stress
- the backing is **robust, non-biodegradable and ladder-proof** to allow multiple needle-tine aerations of the rootzone over 20 years of life time.



CERTIFIED BY F.I.G.C. - LND

Innovative Hybrid Grass System

Atletes that played on Hybrid pitch POWERgrass® and groundsmen that had experience with the system can testify:

- 1 THE COMFORT AND THE SAFETY THAT OFFERS ONLY NATURAL GRASS
- 2 MORE PLAYING HOURS ON REINFORCED NATURAL GRASS
- 3 EASY AND QUICK INSTALLATION
- 4 SIMPLE AND REDUCED MAINTENANCE!

"IN-SITU" INSTALLATION BY SEEDING

Lampedusa Island
ITALY

upon seeded
with the new grass
Paspalum Vaginatum,
variety **Pure Denisty**

heat-resistant and
salt-resistant



QUICK GRASS ESTABLISHMENT



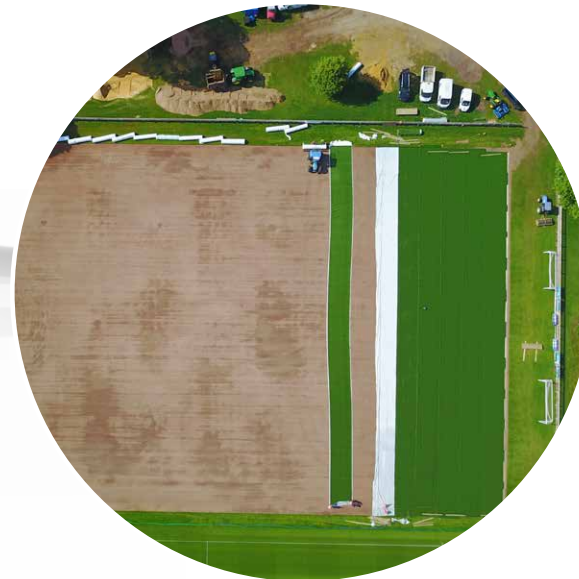
Bisham Abbey National Sports Centre
Marlow - U.K.



ASD Saurorispesca
Via Adda - Grosseto - ITALY



POWERgrass® differs in providing a high-density carpet, with resilient fibres and tufts well banded on the innovative 3D backing! The backing is strong, soft, non bio-degradable, ladder-proof and prevents sand migration! The grass **grows** and **recovers** quickly after heavy use and the grass roots **anchor** penetrating the backing, since the early days of growth!



installation of the synthetic turf rolls in Bisham

REFERENCES:

- Year 2012** - launch of **G1** geotextile net
- experimental field, D | Betzdorf
 - the first pilot field, IT | Verbania
 - experimental field, IT | Vertemate con Minoprio (CO)
 - training area, D | Mönchengladbach

- Year 2013** - launch of **G2** woven version
- regular pitch, NL | Rotterdam Alexandria
 - regular pitch, NL | Rotterdam Xerxes
 - regular pitch, LU | Mersch
 - partial, central axis D | Hilgert
 - regular pitch, D | Grünwald
 - regular pitch, D | Sundern
 - regular pitch, D | Betzdorf
 - training area, D | Bochum
 - training area, AT | Salzburg

- Year 2014** - launch of **G3** knitted version
- stadium trial, RU | Moscow
 - G2, regular pitch, D | Geisfeld
 - G2, regular pitch, D | Beeskow
 - regular pitch, NL | Rotterdam Blijdorp
 - goal mouths area, NL | Nieuwkuijk
 - golf tees, S | Vasteras

- Year 2015** - chasing **G3-PowerGrass®**
- rugby training, GB | Northwood
 - goal mouth area, ES | Valencia
 - trial area, B | Football Federation
 - regular pitch, IT | Castello del Matese

- Year 2016/2018** proved quality of G3
- regular pitch, IT | Grosseto (GR)
 - regular pitch, UK | Bisham Abbey
 - regular pitch, IT | Lampedusa Island
 - training area, UK | Derby County FA
 - regular pitch, UK | Regent's Park
 - stadium PRO, B | Waasland Beveren FC
 - stadium PRO, RU | Achmat FC - Grozny
 - regular pitch, IT | Pordenone (PN)
 - training PRO, HR | Hajduk Split FC
 - stadium PRO, HR | Inter Zapresic FC
 - stadium PRO, HR | Slaven Belupo FC



PLAY AND TRAIN IN YOUR STADIUM



POWERgrass® has been **installed in-situ** many times in several type of pitches internationally. **Inter Zapresic FC** was surprised how fast the grass has been **established in 4 weeks**. The team **play and train** on the same pitch every day, with low maintenance regime.

Inter Zapresic FC
Zapresic - **CROATIA**

PERFORMANCE WITH REDUCED COSTS

An increasing number of new pitches are built year on year by POWERgrass® partners

- 1 **Gli Specialisti del Verde**
in Milan - Italy
- 2 **Agripower**
in Great Missenden - U.K.
- 3 **Talbot Sport Turf Installation**
in Derby - U.K.
- 4 **Sports Built**
in Amidale - Australia
- 5 **Sartori Impianti sportivi**
in Casalserugo - Italy



Hajduk Split FC
Split - CROATIA

The playing area of the training pitch of **Hajduk Split FC** has been successfully installed during the summer 2018, while our contractors were installing the stadiums of **Inter Zapresic FC** and **Slaven Belupo FC**

Great feedback was testified by players and trainers.



Slaven Belupo FC
Koprivnica - CROATIA

Slaven Belupo FC also **play and train** on the stadium with reduced maintenance regime

No-divots formation and reduced **wear and tear** of natural grass will provide better playing surface and more playing hours





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