



VILLAGE OF KEY BISCAIYNE

Office of the Village Manager

MEMORANDUM

Village Council
Mayra P. Lindsay, *Mayor*
Edward London, *Vice Mayor*
Franklin H. Caplan
Luis F. de la Cruz
Gary R. Gross
Theodore Holloway
Michael E. Kelly

DATE: May 24, 2016
TO: Honorable Mayor and Members of the Village Council
FROM: John C. Gilbert, Village Manager
RE: Village Green Artificial Turf Recommendation

Village Manager
John C. Gilbert

RECOMMENDATION

It is recommended that the Village Council direct the Village Manager to enter into a contract with FieldTurf for the field described as "Voluntary Alternative #3" in the attached Exhibit "A". A representative from FieldTurf will be available on Wednesday, May 18th from 4:00 to 7:00 PM to meet with Council Members to discuss any question you may have regarding this recommendation.

BACKGROUND

On April 26, 2016 the Village Council received the Village Green Playing Field Analysis Report and directed the Village Manager to provide a recommended artificial surface solution for the Village Green playing fields.

The Village completed onsite meetings with four top artificial surface providers. Each provider was asked to provide an organic artificial surface solution that did not include the SBR rubber that has recently become a point of debate due to safety and health concerns. The Village received project estimates from EasyGrass/Astro Turf, FieldTurf, Sprinturf/CSR Construction and GreenFields/Burke Construction Group. The Village completed site visits to the only fields we are aware of in South Florida that have been constructed without SBR rubber.

While artificial surface fields have been in service for decades, the newer infill options eliminating SBR rubber are relatively new in the United States. They have been used more extensively internationally. It is clear that many communities are moving towards alternative infills with several scheduled for construction this summer.

The City of Miami Beach was recently faced with a nearly identical situation when deciding to install a new artificial surface field. They currently have a traditional artificial surface field but wanted to complete their new field at Flamingo Park with an organic

infill solution and reduced the field temperatures. After researching all of the options currently available on the market, they chose to proceed with FieldTurf's PureFill and CoolPlay infill to address both of these concerns. This field was recently completed. In addition, the City of Miami Beach originally intended to install an organic cork infill at the stadium field that was completed a couple of years ago. They elected to proceed with a rubber infill solution after discovering the issues experienced in other communities regarding the significant displacement of infill as a result of heavy rains, the need to irrigate the fields regularly to keep them playable and the other extensive maintenance requirements. The City of Miami Beach and Village of Key Biscayne's research indicates that these concerns have been addressed with FieldTurf's PureFill product. The City of Miami Beach has experienced significant rainfall since the field has been installed that did not result in the migration of the infill. In addition, the PureFill product does not require irrigation.

Additionally the City of Weston is still evaluating different options as part of their year long process to study artificial surface solutions without rubber infill. Weston did retrofit their walled in roller hockey rinks with a cork infilled artificial surface that they irrigate with a portable device.

In summary, Staff's recommendation addresses the significant concerns regarding artificial surface fields by replacing the commonly used SBR rubber infill with the cork PureFill product. In addition, by adding CoolPlay, the second most common concern regarding the heat of the field is addressed. As independent third-party laboratory results concluded, CoolPlay was 35°F cooler than traditional sand and rubber infill systems. The result is a field that is more expensive than the alternatives, but results in the safest possible high quality field requiring minimal maintenance while providing for maximum use by the community.

ORDINANCE NO. 2016 -

A CAPITAL PROJECT AUTHORIZING ORDINANCE OF THE VILLAGE OF KEY BISCAYNE, FLORIDA, SELECTING A CONTRACTOR FOR THE INSTALLATION OF ARTIFICIAL TURF ON THE ATHLETIC FIELDS AT THE VILLAGE GREEN; PROVIDING FOR A WAIVER OF COMPETITIVE BIDDING; PROVIDING FOR AUTHORIZATION; AND PROVIDING FOR AN EFFECTIVE DATE.

WHEREAS, the Village of Key Biscayne, Florida (the “Village”) recently contracted for the replacement of natural turf on the athletic fields at the Village Green (“Fields”); and

WHEREAS, the natural turf on the Fields failed and was unacceptable to the Village; and

WHEREAS, it is critical that the Fields be resurfaced again and put into a condition satisfactory for its intended use during the upcoming period of high usage and to avoid disruption of the use of the Fields; and

WHEREAS, the Village Council has expressed a desire to consider the use of artificial turf in lieu of natural turf for the resurfacing of the Fields; and

WHEREAS, the Village Manager recommends _____ for the installation of artificial turf on the Fields; and

WHEREAS, the Village Council finds that this Ordinance is in the best interest and welfare of the residents of the Village.

NOW, THEREFORE, IT IS HEREBY ORDAINED BY THE VILLAGE COUNCIL OF THE VILLAGE OF KEY BISCAYNE, FLORIDA, AS FOLLOWS¹:

Coding: underlined words are additions to existing text, struck through words are deletions from existing text, shaded text reflects changes made from First Reading.

Section 1. Recitals. The preceding “Whereas” clauses are ratified and incorporated as the legislative intent of this Ordinance.

Section 2. Contractor Selected. The Village Council hereby selects _____ for the installation of artificial turf on the Fields.

Section 3. Competitive Bidding Waived. The Village Council hereby waives competitive bidding pursuant to Section 2-85 of the Village’s Code of Ordinances as it is impractical to conduct such procedures in a timely manner given the urgency to have the Fields replaced.

Section 4. Village Manager Authorized. The Village Manager is hereby authorized to negotiate and execute an agreement with _____ consistent with the proposal attached as Exhibit “A” for the installation of artificial turf on the Fields at a cost not to exceed \$1,358,680.00, subject to the Village Attorney’s approval as to form, content and legal sufficiency.

Section 5. Effective Date. This Ordinance shall become effective immediately upon adoption on second reading.

PASSED on first reading this ____ day of _____, 2016.

PASSED AND ADOPTED on second reading this ____ day of _____, 2016.

MAYOR MAYRA PEÑA LINDSAY

ATTEST:

CONCHITA H. ALVAREZ, MMC, VILLAGE CLERK

APPROVED AS TO FORM AND LEGAL SUFFICIENCY:

VILLAGE ATTORNEY

Exhibit A

May 9, 2016

Todd Hofferberth
Director – Parks and Recreation – Village of Key Biscayne
thofferberth@keybiscayne.fl.gov
305-365-8947

THE FOLLOWING IS A COST MODEL FOR BOTH NORTH AND SOUTH FIELDS AT THE VILLAGE GREEN IN KEY BISCAYNE.

FieldTurf is pleased to offer to supply and install the following high performance artificial and organic infilled grass surfaces.

BASE BID Turf System FieldTurf XT57

Square Footage: Approx. 111,924 SF

Field Markings: (4) soccer, (1) Football

BASE BUDGETARY PRICE:

\$846,145.00

Voluntary Alternate #1:Furnish/install Revolution 50&57 system: \$880,765.00

Voluntary Alternate #2:Furn./install Revolution 50&57 w/CoolPlay: \$925,534.00

Voluntary Alternate #3:Furn./install Revolution 50&57 PureFill/CoolP.: \$1,358,680.00

The FieldTurf Quality Guarantee

To achieve unmatched quality and level of performance, we have invested heavily in modernizing our plants with the latest fiber manufacturing, coating and tufting technologies along with top manufacturing talent, and specialized installation equipment. Our dedicated CAD-based design department supports customization for each client, and our experts ensure timely delivery and installation on every project.

The world leader in artificial turf innovation is ISO 9001, ISO 14001 and OHSAS 18001 certified for its leadership in quality, environment and safety management systems. FieldTurf's Calhoun facility represents the only artificial turf manufacturing operation in North America to have received these ISO certifications. FieldTurf has taken the necessary steps to ensure that your project will run smoothly and that the quality promised will be the quality delivered.

Civil Scope of work / Base Bid Price Includes:

Design Services and construction documentation including:

- a. Professional topographic and tree survey of existing site conditions
- b. Perform 3rd party Geotechnical Study including borings and written report
- c. Review Stormwater Calculations prepared by others
- d. Layout Plan
- e. Grading Plan
- f. Utility Plan
- g. Field Marking Plan
- h. Detail Plans to include curbs, piping systems, base section and additional details as required to complete the installation of the field

- i. Furnish Sealed Drawings
- j. Attend up to one (1) coordination meeting with the Local Permitting Authority
- Mobilization
- Survey and Layout of our work
- Furnish and install silt fencing around site per plans
- Install stone construction entrance
- Survey & stakeout
- Strip topsoil and remove spoils offsite
- Mass excavation and haul spoils offsite
- Cut and cap existing irrigation system
- Laser grade and compact subgrade
- Furnish and install 6" x 12" concrete curb
- Furnish and install 2" x 4" nailer board at perimeter of concrete curb
- Geotextile fabric
- Furnish and install 12" perforated HDPE header piping
- Furnish and install 4' x 4.5' exfiltration trench with 15" diameter piping- 3 trenches to be evenly spaced the full length of the field
- Furnish and install 1" x 12" flat drains @ 20' O.C.
- Furnish and install (6) 18" Nyloplast basins
- Furnish and install (6) 24" Nyloplast basins
- Furnish and install controlled outflow manhole
- Connection to existing storm outfall
- Furnish and install 5" base stone
- Furnish and install 1" finish stone
- Laser grade and compact stone courses
- Install (1) set of 8ft offset Goal Posts
- Site Restoration
- Clean up of our work

This proposal and offered pricing are based upon FieldTurf's typical dynamic base drainage system and storm water calculations. However, the scope of work/services and associated pricing are subject to change in the event of: (i) design and/or construction requirements of the local permitting authorities which dictate a change in design and/or construction and/or (ii) existing site conditions which are concealed, unknown and/or differ from readily available published data for the region

Civil Scope of Work Exclusions:

Unless otherwise specified, does not include any G-max testing of the finished FieldTurf playing surfaces.

Any costs associated with necessary charges relating to the delineation of the field
Irrigation and layout

Any alteration or deviation from specifications involving extra costs, which alteration or deviation will be provided only upon executed change orders, and will become an extra charge over and above the offered price.

Subgrade soil stabilization

Field Event Construction.

Athletic equipment other than noted above.

Soccer Goals to be furnished by Owner

Electrical work.

Repair of any un-marked utilities excluded.

Relocation, removal or repairs of existing utilities that are un-marked.

Testing by others.

Site security

Asphalt paving

Track Surfacing

Relocation, removal and repair of existing utilities not limited to electrical conduits, power poles, water, sewer, gas, cable, telephone, owner placed conduits or communication feeds within the field of play

NOTES:

Notwithstanding any other document or agreement entered into by FieldTurf in connection with the supply and installation only of its product pursuant to the present bid proposal, the following shall apply:

a) This bid proposal and its acceptance is subject to strikes, accidents, delays beyond our control and *force majeure*;

b) Final payment shall be upon the substantial completion of FieldTurf's obligations;

c) Accounts overdue beyond 30 days of invoice date will be charged at an interest rate of 1.5% per month (19.56% per annum);

d) FieldTurf requires a minimum of 21 days after receiving final approvals on shop drawings to manufacture, coordinate delivery and schedule arrival of installation crew. Under typical field size and scenario, FieldTurf further requires 28 days to install the Product subject to weather and *force majeure*.

e) FieldTurf requires a suitable staging area. Staging area must be square footage of field x 0.12, have a minimum access of 15 feet wide by 15 feet high, and, no more than 100ft from the site. A 25 foot wide by 25 foot long hard or paved clean surface area located within 50 feet of the playing surface shall be provided for purposes of proper mixing of infill material. Access to any field will include suitable bridging over curbs from the staging area to permit suitable access to the field by low clearance vehicles.

f) This proposal is based on a single mobilization. If the site is not ready and additional mobilizations are necessary, additional charges will apply.

g) FieldTurf shall be accountable for its negligence but shall not be bound by any penalty clauses.

h) FieldTurf shall be entitled to recover all costs and expenses, including attorney fees, associated with collection procedures in the event that FieldTurf pursues collection of payment of any past due invoice.

i) All colors are to be chosen from FieldTurf's standard colors.

j) The FieldTurf product carries an 8 year 3rd party insured warranty.



THE ULTIMATE
SURFACE EXPERIENCE

Should you have any further questions on this, please do not hesitate to contact me.

Best,

Chris Wedge
Regional Sales Manager
FieldTurf USA
Tel: +1 352-242-7620
Email: Chris.Wedge@fieldturf.com



SPORT COLORS:
 CENTRAL
 COMPLETE COLOR NAME: WHITE
 PAINTING COLOR NUMBER: WHITE
 SOCCER
 COMPLETE COLOR NAME: CANARY YELLOW
 PAINTING COLOR NUMBER: 136C

APPROVED BY:
 SIGNATURE:
 PRINTED NAME:
 TITLE:
 DATE:

LEGEND:
 GREEN FIELDTURF
 65,844 sq. ft.

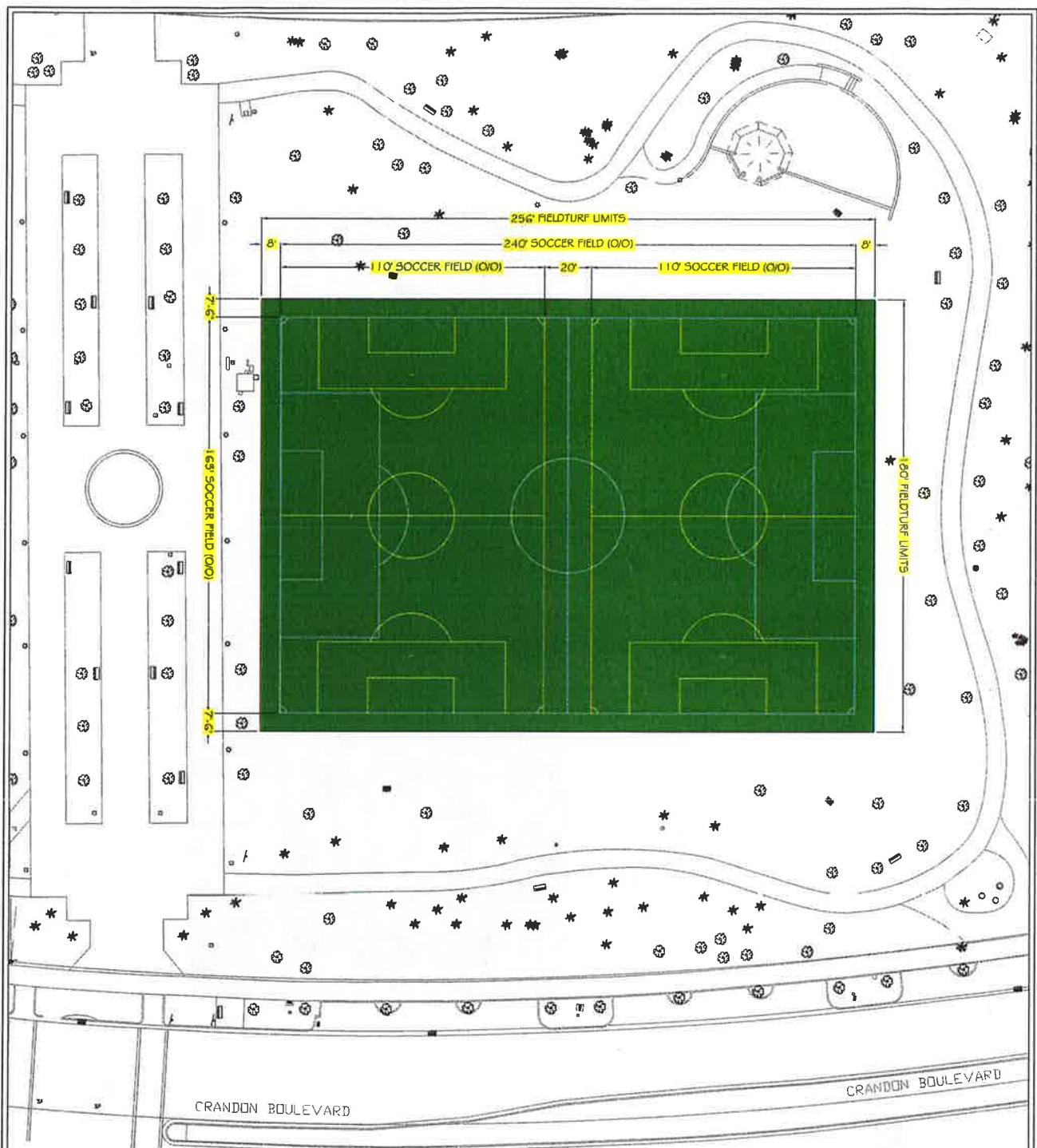
FIELD LAYOUT NOTES (Sports are in order of dominance):
 1. FOOTBALL MARKINGS ARE #1 WHITE NFHS STANDARDS
 2. SOCCER MARKINGS ARE #2 YELLOW NFHS STANDARDS
 FIELD DOMINANCE IS ONLY WITHIN THE FOOTBALL FIELD OF PLAY
 ALL DIMENSIONS TO BE VERIFIED BEFORE ANY CONSTRUCTION BEGINS.

NFHS STANDARDS

VILLAGE GREEN PARK KEY BISCAIYNE, FL

DRAWN BY:	S.L.
CHECKED BY:	J.B.
SCALE:	1"=45'
FIELD AREA:	65,844 sq.ft.
PERIMETER:	1,098 ln.ft.

DATE: JANUARY 12, 2015 ISSUE: PRESENTATION SHEET: 1/1 FIELD LAYOUT



CRANDON BOULEVARD

CRANDON BOULEVARD

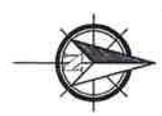
- FIELD LAYOUT NOTES:**
1. U-12 SOCCER MARKINGS ARE 4" WHITE.
 2. U-10 SOCCER MARKINGS ARE 4" YELLOW.
- ALL DIMENSIONS TO BE VERIFIED BEFORE ANY CONSTRUCTION BEGINS.

APPROVED BY: _____
 SIGNATURE: _____
 PRINTED NAME: _____
 TITLE: _____
 DATE: _____

- SPOT COLORS:**
- U-12 SOCCER
 COMPLETE COLOR NAME: WHITE
 PANTONE COLOR NUMBER: WHITE
 - U-10 SOCCER
 COMPLETE COLOR NAME: CANARY YELLOW
 PANTONE COLOR NUMBER: 135C

LEGEND:

- GREEN FIELDTURF
 46,080 sq.ft.



VILLAGE GREEN PARK KEY BISCAYNE, FL

DRAWN BY:	S.L.
CHECKED BY:	J.B.
SCALE:	1"=40'
FIELD AREA:	46,080 sq.ft.
PERIMETER:	872 In.ft.



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FIELDTURF LAUNCHES INNOVATIVE 'COOLPLAY' ARTIFICIAL TURF SYSTEMS

CoolPlay systems were designed to reduce surface temperature without any reduction in field performance. Independent laboratory results concluded that CoolPlay was 35°F cooler than traditional sand / rubber infill systems.

MONTREAL, CANADA (February 6, 2013) – High Performance. Low Temperature. FieldTurf has announced the launch of its new and innovative FieldTurf CoolPlay systems, designed to provide clients with a cooler surface temperature versus traditional turfs – with no compromise to the safety and performance of the fields.

The experts at the FieldTurf Innovation and Performance Center have been hard at work finding a solution to lower the surface temperature of an artificial turf surface. Years of experimenting with materials and systems has finally paid off. Independent third-party laboratory results concluded that CoolPlay was 35°F cooler than traditional sand / rubber infill systems.

“FieldTurf started out testing all known products and components that have been touted as heat reducers for infilled turf fields,” said FieldTurf President Eric Dalieri. “Cork was the best of both worlds – a material proven to absorb less heat and also provide shock absorbent characteristics. The CoolPlay system was the only combination that reduced heat while still meeting all of our requirements for what we consider to be a high performance surface.”

Research led FieldTurf to a special cork top dressing that would replace the top layer of crumb rubber in the FieldTurf patented three-layer infill system, to form the FieldTurf CoolPlay system. FieldTurf’s renowned three-layer infill has proven to offer ideal performance and safety in over 4,500 fields around the world. The cork used in the CoolPlay system as a top layer of infill is durable, shock absorbing and absorbs far less heat than other alternatives. The many layers of cryogenic rubber and silica sand still form the majority of the infill in the CoolPlay system in order to contribute to the same Elite level performance that FieldTurf has become known for.

CoolPlay wasn't developed just to be cool and high performing. The CoolPlay system also allows clients to save a significant amount of money versus installing irrigation systems to help reduce the surface temperature of an artificial surface.

Find a Representative

FieldTurf is based in the U.S. with offices that span six continents. Find a trusted representative near you.

GET STARTED

Request More Information

We have already installed over 15,000 successful projects. How can we help you?

CONTACT US



FROM THE FOREST TO THE FIELD, PUREFILL IS THE SMART ORGANIC SOLUTION.

FieldTurf tested all known organic infill materials in the marketplace today and found cork to be superior in all major categories as it relates to the environment, safety, performance, and durability. PureFill cork has a long list of benefits for athletes and field owners. FieldTurf's PureFill cork infill is a natural infill that is 100% environmentfriendly and non-toxic. It is an organic, recyclable and sustainable product that is harvested from the cork oak tree every nine years, without harming the trees.

WHY CORK ?

RESILIENCE

PureFill cork is a very resistant substance of strong durability. It is considered an unalterable and imperishable material. Due to its membrane flexibility, the cells in PureFill cork function as microscopic air cushions which regain their shape once compressed.

HEAT REDUCTION

Studies show that even a small top layer of PureFill cork infill applied to a synthetic turf field can reduce the surface temperature significantly. Cork's low thermal conductivity due to its natural structure will keep the turf cooler.

SHOCK ABSORPTION AND ATTENUATION

FieldTurf's PureFill infill systems all exude excellent shock absorbing properties, having met or exceeded industry standards for immediate and long-term player safety. The PureFill cork material combined with silica sand provides for good impact attenuation that helps keep fields safe.

UV RESISTANCE

The Suberin component of PureFill provides impermeable properties which allow cells to fill-up with air and take on a strong insulating and protective ability.

CLEANLINESS & HEALTH

The Suberin component of cork is anti-microbial and anti-allergenic and will repel pests, mold and prevent cork from rotting. It therefore has a strong hygienic value and is completely recyclable.

WHY CHOOSE CORK OVER THE OTHER ORGANICS?

- 1 NO WATER REQUIRED**
Traditional coconut based organics require expensive irrigation systems to maintain moisture levels. Not cork.
- 2 NO FILLER**
Traditional organics use "husk" filler to reduce cost. A cork only system ensures that you get only top quality material and no filler.
- 3 DURABILITY**
Cork is a more durable granule than other fibrous organic materials which leads to lower infill compaction.
- 4 BETTER VALUE**
Better performance and lower overall cost makes cork the best value organic solution.

HIGH PERFORMANCE

How does purefill compare to the most stringent testing standards in the world?

It crushes them! meeting all fifa 2-star requirements.

PROPERTY	TWO STAR REQUIREMENT	FIELDTURF PUREFILL
Vertical Ball Rebound	0.60 - 0.85m	0.82
Ball Roll	4 - 8m	7.3
Shock Absorption	60 - 70%	62
Deformation	4 - 10mm	7.0
Rotational Resistance	30 - 45 Nm	40

THE WORLD REFERENCE

Kelmis Field 1 (2013)

La Calamine, Belgium

Sportplatz Dienheim (2013)

Dienheim, Germany

Complexe Sportif Saint Exupéry (2013)

Rouen, France

Ovada Campo (2011)

Ovada, Italy

Campo Miramare (2008)

Rimini, Italy

Sportplatz Kloster Oesede (2012)

Georgsmarienhütte, Germany

CS du Bois de Frères (2013)

Chatelaine, Switzerland

TV Crumstadt (2013)

Riedstadt, Germany

Campo di Santa Flavia (2011)

Bagheria, Italy

SV Wateringseveld (2012)

Den Haag, Netherlands