

# TIPS VENDOR AGREEMENT

Between \_\_\_\_\_ and

(Company Name)

## THE INTERLOCAL PURCHASING SYSTEM (TIPS)

For

**RCSP 170205 Synthetic or Natural Sports Fields, Courts or Tracks (JOC)**

### General Information

The Vendor Agreement (“Agreement”) made and entered into by and between The Interlocal Purchasing System (hereinafter referred to as “TIPS” respectfully) a government cooperative purchasing program authorized by the Region 8 Education Service Center, having its principal place of business at 4845 US Hwy 271 North, Pittsburg, Texas 75686. This Agreement consists of the provisions set forth below, including provisions of all Attachments referenced herein. In the event of a conflict between the provisions set forth below and those contained in any Attachment, the provisions set forth shall control.

The vendor Agreement shall include and incorporate by reference this Agreement, the terms and conditions, special terms and conditions, any agreed upon amendments, as well as all of the sections of the solicitation as posted, including any addenda and the awarded vendor’s proposal. Once signed, if an awarded vendor’s proposal varies or is unclear in any way from the TIPS Agreement, TIPS, at its sole discretion, will decide which provision will prevail. Other documents to be included are the awarded vendor’s proposals, task orders, purchase orders and any adjustments which have been issued. If deviations are submitted to TIPS by the proposing vendor as provided by and within the solicitation process, this Agreement may be amended to incorporate any agreed deviations.

The following pages will constitute the Agreement between the successful vendors(s) and TIPS. Bidders shall state, in a separate writing, and include with their proposal response, any required exceptions or deviations from these terms, conditions, and specifications. If agreed to by TIPS, they will be incorporated into the final Agreement.

### Definitions

**PURCHASE ORDER** is the TIPS member’s approval providing the authority to proceed with the negotiated delivery order under the Agreement. Special terms and conditions as agreed to between the vendor and TIPS member will be added as addendums to the PO. Items such as certificate of insurance, bonding requirements, small or disadvantaged business goals are some of the addendums possible.

# Terms and Conditions

## Freight

All deliveries shall be freight prepaid, F.O.B. destination and shall be included in all pricing offered unless otherwise clearly stated in writing.

## Warranty Conditions

All supplies equipment and services shall include manufacturer's minimum standard warranty unless otherwise agreed to in writing. Vendor shall be an authorized dealer, distributor or manufacturer for all products. All equipment proposed shall be new unless clearly stated in writing.

## Customer Support

The Vendor shall provide timely and accurate customer support to TIPS members. Vendors shall respond to such requests within one (1) working day after receipt of the request. Vendor shall provide training regarding products and services supplied by the Vendor unless otherwise clearly stated in writing at the time of purchase. (Unless training is a line item sold or packaged and must be purchased with product.)

## Agreements

**All Agreements and agreements** between Vendors and TIPS Members shall strictly adhere to the statutes that are set forth in the Uniform Commercial Code as most recently revised.

**Agreements for purchase** will normally be put into effect by means of a purchase order(s) executed by authorized agents of the participating government entities.

**Davis Bacon Act** requirements will be met when Federal Funds are used for construction and/or repair of buildings.

## Tax exempt status

A taxable item sold, leased, rented to, stored, used, or consumed by any of the following governmental entities is exempted from the taxes imposed by this chapter:(1) the United States; (2) an unincorporated instrumentality of the United States; (3) a corporation that is an agency or instrumentality of the United States and is wholly owned by the United States or by another corporation wholly owned by the United States;(4) the State of Texas; (5) a Texas county, city, special district, or other political subdivision; or (6) a state, or a governmental unit of a state that borders Texas, but only to the extent that the other state or governmental unit exempts or does not impose a tax on similar sales of items to this state or a political subdivision of this state. Texas Tax Code § 151.309.

## **Assignments of Agreements**

No assignment of Agreement may be made without the prior written approval of TIPS. Payment can only be made to the awarded Vendor or vendor assigned dealer.

## **Disclosures**

1. Vendor affirms that he/she has not given, offered to give, nor intends to give at any time hereafter any economic opportunity, future employment, gift, loan, gratuity, special discount, trip, favor or service to a public servant in connection with this Agreement.
2. Vendor shall attach, in writing, a complete description of any and all relationships that might be considered a conflict of interest in doing business with participants in the TIPS program.
3. The vendor affirms that, to the best of his/her knowledge, the offer has been arrived at independently, and is submitted without collusion with anyone to obtain information or gain any favoritism that would in any way limit competition or give an unfair advantage over other vendors in the award of this Agreement.

## **Renewal of Agreements**

The Agreement with TIPS is for one (1) year with an option for renewal for additional consecutive years as provided in the solicitation. Total term of Agreement can be up to the number of years provided in the solicitation, if sales are reported through the Agreement and both parties agree.

## **Automatic Renewal Clauses Incorporated in Awarded Vendor Agreements with TIPS Members Resulting from the Solicitation and with the Vendor Named in this Agreement.**

No Agreement for goods or services with a TIPS member by the awarded vendor named in this Agreement that results from the solicitation award named in this Agreement, may incorporate an automatic renewal clause with which the TIPS member must comply. All renewal terms incorporated in an Agreement by the vendor with the TIPS member shall only be valid and enforceable when the vendor receives written confirmation by purchase order or executed Agreement issued by the TIPS member for any renewal period. The purpose of this clause is to avoid a TIPS member inadvertently renewing an Agreement during a period in which the governing body of the TIPS member has not properly appropriated and budgeted the funds to satisfy the Agreement renewal. This term is not negotiable and any Agreement between a TIPS member and a TIPS awarded vendor with an automatic renewal clause that conflicts with these terms is rendered void and unenforceable.

## **Shipments**

The Vendor shall ship ordered products within a commercially reasonable time after the receipt of the order. If a product cannot be shipped within that time, the Vendor shall notify TIPS and

the requesting entity as to why the product has not shipped and shall provide an estimated shipping date, if applicable. TIPS or the requesting entity may cancel the order if estimated shipping time is not acceptable.

### **Invoices**

The Vendor or vendor assigned dealer shall submit invoices, to the TIPS participant. Each invoice shall include the TIPS participant's purchase order number. The shipment tracking number or pertinent information for verification of TIPS participant receipt shall be made available upon request. The Vendor or vendor assigned dealer shall not invoice for partial shipments unless agreed to in writing in advance by TIPS and the TIPS participant.

### **Payments**

The TIPS participant will make payments directly to the Vendor or vendor assigned dealer at net 30 days after receiving invoice.

### **Pricing**

The Vendor Agreements to provide pricing to TIPS and its participating governmental entities that is the lowest pricing available to like cooperative purchasing customers and the pricing shall remain so throughout the duration of the Agreement.

The Vendor agrees to promptly lower the cost of any product purchased through TIPS following a reduction in the manufacturer or publisher's direct cost to the Vendor. Price increases will be honored. However, the Vendor shall honor previous prices for thirty (30) days after written notification to TIPS of an increase.

All pricing submitted to TIPS shall include the participation fee, as provided in the solicitation, to be remitted to TIPS by the Vendor. Vendor will not show adding the fee to the invoice presented to customer. Failure to render the participation fee to TIPS shall constitute a breach of this agreement and shall be grounds for termination of this agreement and any other agreement held with TIPS.

### **Participation Fees**

Vendor or vendor assigned dealer Agreements to pay the participation fee for all Agreement sales to TIPS on a monthly scheduled report. Vendor must login to the TIPS database and use the "Submission Report" section to report sales. The Vendor or vendor assigned dealers are responsible for keeping record of all sales that go through the TIPS Agreement. Failure to pay the participation fee will result in termination of Agreement. Please contact TIPS at [tips@tips-usa.com](mailto:tips@tips-usa.com) or call (866) 839-8477 if you have questions about paying fees.



## **Indemnity**

1. **Indemnity for Personality Agreements.** Vendor agrees to indemnify and hold harmless and defend TIPS, TIPS member(s), officers and employees, from and against all claims and suits for damages, injuries to persons (including death), property damages, losses, and expenses including court costs and attorney's fees, arising out of, or resulting from, Vendor's performance of this Agreement, including all such causes of action based upon common, constitutional, or statutory law, or based in whole or in part, upon allegations of negligent or intentional acts on the part of the Vendor, its officers, employees, agents, subcontractors, licensees, invitees, whether or not such claims are based in whole or in part upon the negligent acts or omissions of the TIPS, TIPS member(s), officers, employees, or agents.
2. **Indemnity for Performance Agreements.** The Vendor agrees to indemnify and hold harmless and defend TIPS, TIPS member(s), officers and employees from and against all claims and suits for damages, injuries to persons (including death), property damages, losses, and expenses including court costs and attorney's fees, arising out of, or resulting from, Vendor's work under this Agreement, including all such causes of action based upon common, constitutional, or statutory law, or based in whole or in part, upon allegations of negligent or intentional acts on the part of the Vendor, its officers, employees, agents, subcontractors, licensees, or invitees. Vendor further agrees to indemnify and hold harmless and defend TIPS, TIPS member(s), officers and employees, from and against all claims and suits for injuries (including death) to an officer, employee, agent, subcontractors, supplier or equipment lessee of the Vendor, arising out of, or resulting from, Vendor's work under this Agreement whether or not such claims are based in whole or in part upon the negligent acts or omissions of the TIPS, TIPS member(s), officers, employees, or agents.

### **Attorney's Fees--Texas Local Government Code § 271.159 is expressly referenced.**

Pursuant to §271.159, TEXAS LOC. GOV'T CODE, in the event that any one of the Parties is required to obtain the services of an attorney to enforce this Agreement, the prevailing party, in addition to other remedies available, shall be entitled to recover reasonable attorney's fees and costs of court.

### **Multiple Vendor Awards**

TIPS reserves the right to award multiple vendor Agreements for categories when deemed in the best interest of the TIPS membership. Bidders scoring 80% or above will be considered for an award. Categories are established at the discretion of TIPS.

### **State of Texas Franchise Tax**

By signature hereon, the bidder hereby certifies that he/she is not currently delinquent in the payment of any franchise taxes owed the State of Texas under Chapter 171, Tax Code.

## **Miscellaneous**

The Vendor acknowledges and agrees that continued participation in TIPS is subject to TIPS sole discretion and that any Vendor may be removed from the participation in the Program at any time with or without cause. Nothing in the Agreement or in any other communication between TIPS and the Vendor may be construed as a guarantee that TIPS participants will submit any orders at any time. TIPS reserves the right to request additional proposals for items already on Agreement at any time.

## **Purchase Order Pricing/Product Deviation**

If a deviation of pricing/product on a purchase order occurs, TIPS is to be notified within 24 hours of receipt of order.

## **Cancellation for non-performance or Agreement deficiency**

TIPS may terminate any Agreement if TIPS Members have not used the Agreement, or if purchase volume is determined to be “low volume” in any 12-month period. TIPS reserves the right to cancel the whole or any part of this Agreement due to failure by awarded vendor to carry out any obligation, term or condition of the Agreement. TIPS may issue a written deficiency notice to awarded vendor for acting or failing to act in any of the following:

- Providing material that does not meet the specifications of the Agreement;
- Providing work and/or material that was not awarded under the Agreement;
- Failing to adequately perform the services set forth in the scope of work and specifications;
- Failing to complete required work or furnish required materials within a reasonable amount of time;
- Failing to make progress in performance of the Agreement and/or giving TIPS reason to believe that awarded vendor will not or cannot perform the requirements of the Agreement; and/or
- Performing work or providing services under the Agreement prior to receiving a TIPS reviewed purchase order for such work.

Upon receipt of the written deficiency, awarded vendor shall have ten (10) days to provide a satisfactory response to TIPS. Failure to adequately address all issues of concern may result in Agreement cancellation. Upon cancellation under this paragraph, all goods, materials, work, documents, data and reports prepared by awarded vendor under this Agreement shall become the property of the TIPS Member on demand.

## **TIPS Member Purchasing Procedures**

Purchase orders are issued by participating TIPS member to the awarded vendor indicating on the PO “Agreement Number”. Purchase Order is emailed to TIPS at [tipspo@tips-usa.com](mailto:tipspo@tips-usa.com).

- Awarded vendor delivers goods/services directly to the participating member.

- Awarded vendor invoices the participating TIPS member directly.
- Awarded vendor receives payment directly from the participating member.
- Awarded vendor reports sales monthly to TIPS (unless prior arrangements have been made with TIPS to report monthly).

### **Form of Agreement**

If a vendor submitting an offer requires TIPS and/or TIPS Member to sign an additional agreement, a copy of the proposed agreement must be included with the proposal. In response to submitted supplemental Vendor Agreement documents, TIPS will review proposed vendor Agreement documents. Vendor's Agreement document shall not become part of TIPS's Agreement with vendor unless and until an authorized representative of TIPS reviews and approves it.

### **Licenses**

Awarded vendor shall maintain in current status all federal, state and local licenses, bonds and permits required for the operation of the business conducted by awarded vendor. Awarded vendor shall remain fully informed of and in compliance with all ordinances and regulations pertaining to the lawful provision of services under the Agreement. TIPS reserves the right to stop work and/or cancel Agreement of any awarded vendor whose license(s) expire, lapse, are suspended or terminated.

### **Novation**

If awarded vendor sells or transfers all assets or the entire portion of the assets used to perform this Agreement, a successor in interest must guarantee to perform all obligations under this Agreement. TIPS reserves the right to accept or reject any new party. A simple change of name agreement will not change the Agreement obligations of awarded vendor.

### **Site Requirements (when applicable to service or job)**

**Cleanup:** Awarded vendor shall clean up and remove all debris and rubbish resulting from their work as required or directed by TIPS Member. Upon completion of work, the premises shall be left in good repair and an orderly, neat, clean and unobstructed condition.

**Preparation:** Awarded vendor shall not begin a project for which TIPS Member has not prepared the site, unless awarded vendor does the preparation work at no cost, or until TIPS Member includes the cost of site preparation in a purchase order.

**Site preparation** includes, but is not limited to: moving furniture, installing wiring for networks or power, and similar pre-installation requirements.

**Registered sex offender restrictions:** For work to be performed at schools, awarded vendor agrees that no employee of a sub-contractor who has been adjudicated to be a registered sex offender will perform work at any time when students are or reasonably expected to be present.

Awarded vendor agrees that a violation of this condition shall be considered a material breach and may result in the cancellation of the purchase order at the TIPS Member's discretion. Awarded vendor must identify any additional costs associated with compliance of this term. If no costs are specified, compliance with this term will be provided at no additional charge. Safety measures: Awarded vendor shall take all reasonable precautions for the safety of employees on the worksite, and shall erect and properly maintain all necessary safeguards for protection of workers and the public. Awarded vendor shall post warning signs against all hazards created by the operation and work in progress. Proper precautions shall be taken pursuant to state law and standard practices to protect workers, general public and existing structures from injury or damage.

### **Smoking**

Persons working under Agreement shall adhere to local smoking policies. Smoking will only be permitted in posted areas or off premises.

### **Invoices**

The awarded vendor shall submit invoices to the participating entity clearly stating "Per TIPS Agreement". The shipment tracking number or pertinent information for verification shall be made available upon request.

### **Marketing**

Awarded vendor agrees to allow TIPS to use their name and logo within website, marketing materials and advertisement. Any use of TIPS name and logo or any form of publicity, inclusive of press release, regarding this Agreement by awarded vendor must have prior approval from TIPS.

### **Supplemental agreements**

The entity participating in the TIPS Agreement and awarded vendor may enter into a separate supplemental agreement to further define the level of service requirements over and above the minimum defined in this Agreement i.e. invoice requirements, ordering requirements, specialized delivery, etc. Any supplemental agreement developed as a result of this Agreement is exclusively between the participating entity and awarded vendor. TIPS, its agents, TIPS members and employees shall not be made party to any claim for breach of such agreement.

### **Survival Clause**

All applicable software license agreements, warranties or service agreements that were entered into between Vendor and Customer under the terms and conditions of the Agreement shall survive the expiration or termination of the Agreement. All Purchase Orders issued and accepted by Order Fulfiller shall survive expiration or termination of the Agreement.

**Legal obligations**

It is the responding vendor's responsibility to be aware of and comply with all local, state and federal laws governing the sale of products/services identified in this RFP and any awarded Agreement thereof. Applicable laws and regulations must be followed even if not specifically identified herein.

**Audit rights**

Awarded Vendor shall, at their sole expense, maintain appropriate due diligence of all purchases made by TIPS Member that utilizes this Agreement. TIPS and Region 8 ESC each reserve the right to audit the accounting for a period of three (3) years from the time such purchases are made. This audit right shall survive termination of this Agreement for a period of one (1) year from the effective date of termination. TIPS shall have authority to conduct random audits of Awarded Vendor's pricing that is offered to TIPS Members. Notwithstanding the foregoing, in the event that TIPS is made aware of any pricing being offered to eligible entities that is materially inconsistent with the pricing under this agreement, TIPS shall have the ability to conduct the audit internally or may engage a third-party auditing firm. In the event of an audit, the requested materials shall be provided in the format and at the location designated by Region 8 ESC or TIPS.

**Force Majeure**

If by reason of Force Majeure, either party hereto shall be rendered unable wholly or in part to carry out its obligations under this Agreement then such party shall give notice and fully particulars of Force Majeure in writing to the other party within a reasonable time after occurrence of the event or cause relied upon, and the obligation of the party giving such notice, so far as it is affected by such Force Majeure, shall be suspended during the continuance of the inability then claimed, except as hereinafter provided, but for no longer period, and such party shall endeavor to remove or overcome such inability with all reasonable dispatch.

**Services**

When applicable, performance bonds and payment bonds will be required on construction or labor required jobs. Awarded vendor will meet the TIPS member's local and state purchasing requirements. Awarded vendors may need to provide additional capacity as jobs increase. Bonds will not require that a fee be paid to TIPS. The actual cost of the bond will be a pass through to the TIPS member and added to the purchase order or Agreement.

**Scope of Services**

The specific scope of work for each job shall be determined in advance and in writing between TIPS Member and Awarded vendor. It is okay if the TIPS member provides a general scope, but the awarded vendor should provide a written scope of work to the TIPS member as part of the proposal.

Once the scope of the job is agreed to, the TIPS member will issue a PO and/or an Agreement with the estimate referenced as an attachment along with bond and any other special provisions agreed to for the TIPS member. If special terms and conditions other than those covered within this solicitation and awarded Agreements are required, they will be attached to the PO and shall take precedence over those in the base Agreement.

### **Project Delivery Order Procedures**

The TIPS member having approved and signed an interlocal agreement, or other TIPS membership document, may make a request of the awarded vendor under this Agreement when the TIPS member has services that need to be undertaken. Notification may occur via phone, the web, email, fax, or in person.

Upon notification of a pending request, the awarded vendor shall make contact with the TIPS member as soon as possible, but must make contact with the TIPS member within two working days.

### **Scheduling of Projects**

Scheduling of projects (if applicable) will be accomplished when the TIPS member issues a purchase order that will serve as "the notice to proceed". The period for the delivery order will include the mobilization, materials purchase, installation and delivery, design, weather, and site cleanup and inspection. No additional claims may be made for delays as a result of these items. When the tasks have been completed the awarded vendor shall notify the client and have the TIPS member inspect the work for acceptance under the scope and terms in the PO. The TIPS member will issue in writing any corrective actions that are required. Upon completion of these items, the TIPS member will issue a completion notice and final payment will be issued.

### **Support Requirements**

If there is a dispute between the awarded vendor and TIPS member, TIPS or its representatives will assist in conflict resolution or third party (mandatory mediation), if requested by either party. TIPS, or its representatives, reserves the right to inspect any project and audit the awarded vendors TIPS project files, documentation and correspondence.

### **Incorporation of Solicitation**

The TIPS Request for Proposals or the Request for Competitive Sealed Proposals solicitation and all associated documents and forms made part of the solicitation process, including any addenda, that resulted in the execution of this agreement are hereby incorporated by reference into this agreement as if copied verbatim.

## Special Terms and Conditions

It is the intent of TIPS to Agreement with a reliable, high performance vendor to supply products and services to government and educational agencies. It is the experience of TIPS that the following procedures provide TIPS, the Vendor, and the participating agency the necessary support to facilitate a mutually beneficial relationship. The specific procedures will be negotiated with the successful vendor.

- **Agreements:** All vendor purchase orders and/or Agreements/agreements must be emailed to TIPS at tipspo@tips-usa.com. Should an agency send an order direct to vendor, it is the vendor's responsibility to forward the order to TIPS at the email above within 24 business hours and confirm its receipt with TIPS.
  - **Promotion of Agreement:** It is agreed that Vendor will encourage all eligible entities to purchase from the TIPS Program. Encouraging entities to purchase directly from the Vendor and not through TIPS Agreement is a violation of the terms and conditions of this Agreement and will result in removal of the Vendor from the TIPS Program.
  - **Daily Order Confirmation:** All Agreement purchase orders will be approved daily by TIPS and sent to vendor. The vendor must confirm receipt of orders to the TIPS member (customer) within 24 business hours.
  - **Vendor custom website for TIPS:** If Vendor is hosting a custom TIPS website, then updated pricing must be posted by 1<sup>st</sup> of each month.
  - **Back Ordered Products:** If product is not expected to ship within 3 business days, customer is to be notified within 24 hours and appropriate action taken based on customer request.
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Term of Agreement is one year with renewal options for up to two additional years as provided in the solicitation.

# TIPS Vendor Agreement Signature Form

RCSP 170205 Synthetic or Natural Sports Fields, Courts or Tracks (JOC)

Company Name Polyloom Corporation of America (DBA GreenFields USA)

Address 1131 Broadway Street

City Dayton State TN Zip 37321

Phone 202-460-1962 Fax 423-775-4460

Email of Authorized Representative t.mccarty@greenfieldsusa.com

Name of Authorized Representative Taylor McCarty

Title Sales Manager


Signature of Authorized Representative 

Date 03/10/2017

TIPS Authorized Representative Name Meredith Barton

Title Vice-President of Operations

TIPS Authorized Representative Signature 

Approved by ESC Region 8 

Date 3/23/2017



# The Interlocal Purchasing System (TIPS Cooperative) Supplier Response

Bid Information		Contact Information		Ship to Information
Bid Creator	Mr. David Mabe General Manager	Address	Region VIII Education Service Center 4845 US Highway 271 North Pittsburg, TX 75686	Address
Email	david.mabe@tips-usa.com			Contact
Phone	+1 (903) 243-4759			
Fax	+1 (866) 749-6674	Contact	Kim Thompson, TIPS Office Manager	Department Building
Bid Number	170205 Addendum 1			
Title	Synthetic or Natural Sports Fields, Courts or Tracks (JOC)	Department Building		Floor/Room Telephone Fax Email
Bid Type	RFP			
Issue Date	2/2/2017 08:01 AM (CT)	Floor/Room		
Close Date	3/17/2017 03:00:00 PM (CT)	Telephone	+1 (866) 839-8477	
		Fax	+1 (866) 839-8472	
		Email	bids@tips-usa.com	

## Supplier Information

Company	TenCate Grass North America (Polyloom Corporation of America)		
Address	1131 Broadway Street		
	Dayton, TN 37321		
Contact			
Department			
Building			
Floor/Room			
Telephone	(423) 775-0792		
Fax			
Email			
Submitted	3/17/2017 02:06:36 PM (CT)		
Total	\$0.00		

By submitting your response, you certify that you are authorized to represent and bind your company.

Signature Taylor McCarty Email t.mccarty@greenfieldsusa.com

## Supplier Notes

## Bid Notes

## Bid Activities

## Bid Messages

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**Bid Attributes**

Please review the following and respond where necessary

#	Name	Note	Response
1	Yes - No	Disadvantaged/Minority/Women Business Enterprise - D/M/WBE (Required by some participating governmental entities) Vendor certifies that their firm is a D/M/WBE? Vendor must upload proof of certification to the "Response Attachments" D/M/WBE CERTIFICATES section.	No
2	Yes - No	Highly Underutilized Business - HUB (Required by some participating governmental entities) Vendor certifies that their firm is a HUB? Vendor must upload proof of certification to the "Response Attachments" HUB CERTIFICATES section.	No
3	Yes - No	The Vendor can provide services and/or products to all 50 US States?	Yes
4	States Served:	If answer is NO to question #3, please list which states can be served. (Example: AR, OK, TX)	
5	Company and/or Product Description:	This information will appear on the TIPS website in the company profile section, if awarded a TIPS contract. (Limit 750 characters.)	GreenFields is a synthetic turf company with over a dozen years of experience throughout the world. As the official turf partner of US Lacrosse and an industry leading amount of FIFA fields installed, GreenFields has a focus on being the highest performance turf available in the world.
6	Primary Contact Name	Primary Contact Name	Taylor McCarty
7	Primary Contact Title	Primary Contact Title	Sales Manager
8	Primary Contact Email	Primary Contact Email	t.mccarty@greenfieldsusa.com
9	Primary Contact Phone	Enter 10 digit phone number. (No dashes or extensions) Example: 8668398477	2024601962
10	Primary Contact Fax	Enter 10 digit phone number. (No dashes or extensions) Example: 8668398477	4237755813
11	Primary Contact Mobile	Enter 10 digit phone number. (No dashes or extensions) Example: 8668398477	2024601962
12	Secondary Contact Name	Secondary Contact Name	Cody Robinson
13	Secondary Contact Title	Secondary Contact Title	Project Manager
14	Secondary Contact Email	Secondary Contact Email	c.robinson@greenfieldsusa.com
15	Secondary Contact Phone	Enter 10 digit phone number. (No dashes or extensions) Example: 8668398477	4237750792
16	Secondary Contact Fax	Enter 10 digit phone number. (No dashes or extensions) Example: 8668398477	4237755813
17	Secondary Contact Mobile	Enter 10 digit phone number. (No dashes or extensions) Example: 8668398477	4236647362
18	Admin Fee Contact Name	Admin Fee Contact Name. This person is responsible for paying the admin fee to TIPS.	Greg Phillips

19	Admin Fee Contact Email	Admin Fee Contact Email	g.phillips@greenfieldsusa.com
20	Admin Fee Contact Phone	Enter 10 digit phone number. (No dashes or extensions) Example: 8668398477	4238478433
21	Purchase Order Contact Name	Purchase Order Contact Name. This person is responsible for receiving Purchase Orders from TIPS.	Greg Phillips
22	Purchase Order Contact Email	Purchase Order Contact Email	g.phillips@greenfieldsusa.com
23	Purchase Order Contact Phone	Enter 10 digit phone number. (No dashes or extensions) Example: 8668398477	4238478433
24	Company Website	Company Website (Format - www.company.com)	www.greenfieldsusa.com
25	Federal ID Number:	Federal ID Number also known as the Employer Identification Number. (Format - 12-3456789)	62-1137748
26	Primary Address	Primary Address	1131 Broadway Street
27	Primary Address City	Primary Address City	Dayton
28	Primary Address State	Primary Address State (2 Digit Abbreviation)	TN
29	Primary Address Zip	Primary Address Zip	37321
30	Search Words:	Please list search words to be posted in the TIPS database about your company that TIPS website users might search. Words may be product names, manufacturers, or other words associated with the category of award. YOU MAY NOT LIST NON-CATEGORY ITEMS. (Limit 500 words) (Format: product, paper, construction, manufacturer name, etc.)	synthetic turf, turf, artificial grass, MX, woven, XP, slidemax xp, tx, xpnf
31	Yes - No	Do you wish to be eligible to participate in a TIPS contract in which a TIPS member utilizes federal funds on contracts exceeding \$100,000? (Non-Construction)	Yes
32	Yes - No	Certification of Residency (Required by the State of Texas) Company submitting bid is a Texas resident bidder?	No
33	Company Residence (City)	Vendor's principal place of business is in the city of?	Dayton
34	Company Residence (State)	Vendor's principal place of business is in the state of?	TN
35	Pricing Information:	Pricing information section. (Questions 36 - 38)	(No Response Required)
36	Yes - No	Pricing submitted includes the TIPS administration fee?	Yes
37	Yes - No	Vendor agrees to remit to TIPS the required administration fee?	Yes
38	Yes - No	Additional discounts to TIPS members for bulk quantities or scope of work?	Yes
39	Years Experience	Company years experience in this category?	15
40	Prices are guaranteed for?	(__Month(s), __ Year(s), or Term of Contract) (Standard term is "Term of Contract")	12 months
41	Estimating Requirements	Awarded contractor must use Cost Works, JOC Works, RS Means Online, 4 Clicks, or Other Approved estimating software. If the contractor selects "Other Software", please make the request for approval in the next attribute question.	Other Software

- 42 Other Estimating Software Please list the program name, website address and phone number of the requested estimating software. Microsoft Excel and Jomar, <http://www.jomarsoftcorp.com/>, 519-740-0510
- 43 NON-COLLUSIVE BIDDING CERTIFICATE By submission of this bid or proposal, the Bidder certifies that: (No Response Required)
- 1) This bid or proposal has been independently arrived at without collusion with any other Bidder or with any Competitor;
  - 2) This bid or proposal has not been knowingly disclosed and will not be knowingly disclosed, prior to the opening of bids, or proposals for this project, to any other Bidder, Competitor or potential competitor;
  - 3) No attempt has been or will be made to induce any other person, partnership or corporation to submit or not to submit a bid or proposal;
  - 4) The person signing this bid or proposal certifies that he has fully informed himself regarding the accuracy of the statements contained in this certification, and under the penalties being applicable to the Bidder as well as to the person signing in its behalf. Not a negotiable term. Failure to agree will render your proposal non-responsive and it will not be considered.
- 44 CONFLICT OF INTEREST QUESTIONNAIRE - FORM CIQ If you have a conflict of interest as described in this form or the Local Government Code Chapter 176, cited therein- you are required to complete and file with TIPS, Richard Powell, 4845 US Highway 271 North, Pittsburg, Texas 75686 No
- You may find the Blank CIQ form on our website at:
- Copy and Paste the following link into a new browser or tab:  
<https://www.tips-usa.com/assets/documents/docs/CIQ.pdf>
- Do you have any conflicts under this statutory requirement?
- 45 Filing of Form CIQ If yes (above), have you filed a form CIQ as directed here?

46 Certification Regarding Lobbying

Applicable to Grants, Subgrants, Cooperative Agreements, and Contracts Exceeding \$100,000 in Federal Funds. Yes, I certify  
Submission of this certification is a prerequisite for making or entering into this transaction and is imposed by section 1352, Title 31, U.S. Code. This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure. The undersigned certifies, to the best of his or her knowledge and belief, that:

(1) No Federal appropriated funds have been paid or will be paid by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of congress, or an employee of a Member of Congress in connection with the awarding of a Federal contract, the making of a Federal grant, the making of a Federal loan, the entering into a cooperative agreement, and the extension, continuation, renewal, amendment, or modification of a Federal contract, grant, loan, or cooperative agreement.

(2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of congress, or an employee of a Member of Congress in connection with this Federal grant or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "disclosure Form to Report Lobbying," in accordance with its instructions.

(3) The undersigned shall require that the language of this certification be included in the award documents for all covered subawards exceeding \$100,000 in Federal funds at all appropriate tiers and that all subrecipients shall certify and disclose accordingly.

You may find the Blank Certification Regarding Lobbying form on our website at:

Copy and Paste the following link into a new browser or tab:

<https://www.tips-usa.com/assets/documents/docs/CRL.pdf>

Do you certify the three (3) certification of lobbying statements above? If you do not certify the three (3) statements above please download the Certification Regarding Lobbying form, fill out the form, sign the form, scan the form and upload to the Certification Regarding Lobbying section on the "Response Attachments" tab.

47 Regulatory Standing

I certify to TIPS for the proposal attached that my company is in good standing with all governmental agencies Federal or state that regulate any part of our business operations. If not, please explain in the next attribute question.

Yes

48 Regulatory Standing

Regulatory Standing explanation of no answer.

49 Antitrust Certification Statements (Tex.  
Government Code § 2155.005)

By submission of this bid or proposal, the Bidder certifies (No Response Required)  
that:

I affirm under penalty of perjury of the laws of the State of Texas that:

(1) I am duly authorized to execute this contract on my own behalf or on behalf of the company, corporation, firm, partnership or individual (Company) listed below;

(2) In connection with this bid, neither I nor any representative of the Company has violated any provision of the Texas Free Enterprise and Antitrust Act, Tex. Bus. & Comm. Code Chapter 15;

(3) In connection with this bid, neither I nor any representative of the Company has violated any federal antitrust law;

(4) Neither I nor any representative of the Company has directly or indirectly communicated any of the contents of this bid to a competitor of the Company or any other company, corporation, firm, partnership or individual engaged in the same line of business as the Company.

## Instructions for Certification:

(No Response Required)

1. By agreeing to the form, the prospective lower tier participant is providing the certification set out on the form in accordance with these instructions.
2. The certification in this clause is a material representation of fact upon which reliance was placed when this transaction was entered into. If it is later determined that the prospective lower tier participant knowingly rendered an erroneous certification in addition to other remedies available to the federal government, the department or agency with which this transaction originated may pursue available remedies, including suspension and / or debarment.
3. The prospective lower tier participant shall provide immediate written notice to the person to which this proposal is submitted if at any time the prospective lower tier participant learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.
4. The terms "covered transaction," "debarred," "suspended," "ineligible," "lower tier covered transaction," "participants," "person," "primary covered transaction," "principal," "proposal" and "voluntarily excluded," as used in this clause, have the meanings set out in the Definitions and Coverage sections of rules implementing Executive Order 12549. You may contact the person to which this proposal is submitted for assistance in obtaining a copy of those regulations.
5. The prospective lower tier participant agrees by submitting this form that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency with which this transaction originated.
6. The prospective lower tier participant further agrees by submitting this form that it will include this clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transaction" without modification in all lower tier covered transactions and in all solicitations for lower tier covered transactions.
7. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that it is not debarred, suspended, ineligible or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant may decide the method and frequency by which it determines the eligibility of its principals. Each participant may, but is not required to, check the Nonprocurement List.
8. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of a participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.
9. Except for transactions authorized under paragraph 5 of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible or voluntarily excluded from participation in this transaction, in addition to other remedies available to the federal government, the department or agency with which this transaction originated may pursue available remedies,

including suspension and / or debarment.

- 51 Suspension or Debarment Certification Debarment and Suspension (Executive Orders 12549 and 12689)—A contract award (see 2 CFR 180.220) must not be made to parties listed on the governmentwide exclusions in the System for Award Management (SAM), in accordance with the OMB guidelines at 2 CFR 180 that implement Executive Orders 12549 (3 CFR part 1986 Comp., p. 189) and 12689 (3 CFR part 1989 Comp., p. 235), "Debarment and Suspension." SAM Exclusions contains the names of parties debarred, suspended, or otherwise excluded by agencies, as well as parties declared ineligible under statutory or regulatory authority other than Executive Order 12549. Yes
- By submitting this offer and certifying this section, this bidder:  
Certifies that no suspension or disbarment is in place, which would preclude receiving a federally funded contract as described above.
- 52 Non-Discrimination Statement and Certification In accordance with Federal civil rights law and U.S. Department of Agriculture (USDA) civil rights regulations and policies, the USDA, its Agencies, offices, and employees, and institutions participating in or administering USDA programs are prohibited from discriminating based on race, color, national origin, religion, sex, gender identity (including gender expression), sexual orientation, disability, age, marital status, family/parental status, income derived from a public assistance program, political beliefs, or reprisal or retaliation for prior civil rights activity, in any program or activity conducted or funded by USDA (not all bases apply to all programs). Remedies and complaint filing deadlines vary by program or incident. Yes
- Persons with disabilities who require alternative means of communication for program information (e.g., Braille, large print, audiotope, American Sign Language, etc.) should contact the responsible Agency or USDA's TARGET Center at (202) 720-2600 (voice and TTY) or contact USDA through the Federal Relay Service at (800) 877-8339. Additionally, program information may be made available in languages other than English.
- To file a program discrimination complaint, complete the USDA Program Discrimination Complaint Form, AD-3027, found online at How to File a Program Discrimination Complaint and at any USDA office or write a letter addressed to USDA and provide in the letter all of the information requested in the form. To request a copy of the complaint form, call (866) 632-9992. Submit your completed form or letter to USDA by: (1) mail: U.S. Department of Agriculture, Office of the Assistant Secretary for Civil Rights, 1400 Independence Avenue, SW, Washington, D.C. 20250-9410; (2) fax: (202) 690-7442; or (3) email: [program.intake@usda.gov](mailto:program.intake@usda.gov).
- (Title VI of the Education Amendments of 1972; Section 504 of the Rehabilitation Act of 1973; the Age Discrimination Act of 1975; Title 7 CFR Parts 15, 15a, and 15b; the Americans with Disabilities Act; and FNS Instruction 113-1, Civil Rights Compliance and Enforcement – Nutrition Programs and Activities)
- USDA is an equal opportunity provider, employer, and lender.
- Not a negotiable term. Failure to agree will render your proposal non-responsive and it will not be considered. I



certify that in the performance of a contract with TIPS or its members, that our company will conform to the foregoing anti-discrimination statement and comply with the cited law and regulations.

53 2 CFR PART 200 Contract Provisions  
Explanation

Required Federal contract provisions of Federal Regulations for contracts with ESC Region 8 and TIPS Members: (No Response Required)  
The following provisions are required to be in place and agreed if the procurement is funded in any part with federal funds.  
The ESC Region 8 and TIPS Members is the subgrantee or Subrecipient by definition. The federal Rule numbering or identification below is only for reference purpose on this form and does not identify an actual Federal designation or location of the rule. The Rules are located in 2 CFR PART 200 - Appendix II to Part 200—Contract Provisions for Non-Federal Entity Contracts Under Federal Awards at 2 CFR PART 200.  
In addition to other provisions required by the Federal agency or non-Federal entity, all contracts made by the non-Federal entity under the Federal award must contain provisions covering the following, as applicable.

54 2 CFR PART 200 (A) Contracts

Contracts for more than the simplified acquisition threshold currently set at \$150,000, which is the inflation adjusted amount determined by the Civilian Agency Acquisition Council and the Defense Acquisition Regulations Council (Councils) as authorized by 41 U.S.C. 1908, must address administrative, contractual, or legal remedies in instances where contractors violate or breach contract terms, and provide for such sanctions and penalties as appropriate. Notice: Pursuant to Federal Rule (A) above, when federal funds are expended by ESC Region 8 and TIPS Members, ESC Region 8 and TIPS Members reserves all rights and privileges under the applicable laws and regulations with respect to this procurement in the event of breach of contract by either party.  
Does vendor agree?

55 2 CFR PART 200 (B) Termination

Termination for cause and for convenience by the grantee or subgrantee including the manner by which it will be effected and the basis for settlement. (All contracts in excess of \$10,000) Yes  
Pursuant to Federal Rule (B) above, when federal funds are expended by ESC Region 8 and TIPS Members, ESC Region 8 and TIPS Members reserves the right to terminate any agreement in excess of \$10,000 resulting from this procurement process for cause after giving the vendor an appropriate opportunity and up to 30 days, to cure the causal breach of terms and conditions. ESC Region 8 and TIPS Members reserves the right to terminate any agreement in excess of \$10,000 resulting from this procurement process for convenience with 30 days notice in writing to the awarded vendor. The vendor would be compensated for work performed and goods procured as of the termination date if for convenience of the ESC Region 8 and TIPS Members. Any award under this procurement process is not exclusive and the ESC Region 8 and TIPS reserves the right to purchase goods and services from other vendors when it is in the best interest of the ESC Region 8 and TIPS.  
Does vendor agree?

56	2 CFR PART 200 (G) Clean Air Act	<p>Clean Air Act (42 U.S.C. 7401-7671q.) and the Federal Water Pollution Control Act (33 U.S.C. 1251-1387), as amended—Contracts and subgrants of amounts in excess of \$150,000 must contain a provision that requires the non-Federal award to agree to comply with all applicable standards, orders or regulations issued pursuant to the Clean Air Act (42 U.S.C. 7401-7671q) and the Federal Water Pollution Control Act as amended (33 U.S.C. 1251-1387). Violations must be reported to the Federal awarding agency and the Regional Office of the Environmental Protection Agency (EPA).</p> <p>Pursuant to Federal Rule (G) above, when federal funds are expended by ESC Region 8 and TIPS Members, ESC Region 8 and TIPS Members requires that the proposer certify that during the term of an award by the ESC Region 8 and TIPS Members resulting from this procurement process the vendor agrees to the terms listed and referenced therein.</p> <p>Does vendor agree?</p>	Yes
57	2 CFR PART 200 (H) Debarment and Suspension	<p>Debarment and Suspension (Executive Orders 12549 and 12689)—A contract award (see 2 CFR 180.220) must not be made to parties listed on the governmentwide exclusions in the System for Award Management (SAM), in accordance with the OMB guidelines at 2 CFR 180 that implement Executive Orders 12549 (3 CFR part 1986 Comp., p. 189) and 12689 (3 CFR part 1989 Comp., p. 235), "Debarment and Suspension." SAM Exclusions contains the names of parties debarred, suspended, or otherwise excluded by agencies, as well as parties declared ineligible under statutory or regulatory authority other than Executive Order 12549.</p> <p>Pursuant to Federal Rule (H) above, when federal funds are expended by ESC Region 8 and TIPS Members, ESC Region 8 and TIPS Members requires the proposer certify that during the term of an award by the ESC Region 8 and TIPS Members resulting for this procurement process the vendor certifies that they are not debarred from receiving a contract from the federal government as provided therein.</p> <p>Does vendor agree?</p>	Yes
58	2 CFR PART 200 (I) Byrd Anti-Lobbying Amendment	<p>Byrd Anti-Lobbying Amendment (31 U.S.C. 1352)—Contractors that apply or bid for an award exceeding \$100,000 must file the required certification. Each tier certifies to the tier above that it will not and has not used Federal appropriated funds to pay any person or organization for influencing or attempting to influence an officer or employee of any agency, a member of Congress, officer or employee of Congress, or an employee of a member of Congress in connection with obtaining any Federal contract, grant or any other award covered by 31 U.S.C. 1352. Each tier must also disclose any lobbying with non-Federal funds that takes place in connection with obtaining any Federal award. Such disclosures are forwarded from tier to tier up to the non-Federal award.</p> <p>Pursuant to Federal Rule (I) above, when federal funds are expended by ESC Region 8 and TIPS Members, ESC Region 8 and TIPS Members requires the proposer certify that during the term and after the awarded term of an award by the ESC Region 8 and TIPS Members resulting for this procurement process the vendor certifies to the terms included or referenced therein.</p> <p>Does vendor agree?</p>	Yes

59	2 CFR PART 200 Federal Rule (12)	<p>Federal Rule (12) Compliance with all applicable standards, orders, or requirements issued under section 306 of the Clean Air Act (42 U.S.C. 1857(h)), section 508 of the Clean Water Act (33 U.S.C. 1368), Executive Order 11738, and Environmental Protection Agency regulations (40 CFR part 15). (Contracts, subcontracts, and subgrants of amounts in excess of \$100,000)</p> <p>Pursuant to Federal Rule (12) above, when federal funds are expended by ESC Region 8 and TIPS Members, ESC Region 8 and TIPS Members requires the proposer certify that in performance of the contracts, subcontracts, and subgrants of amounts in excess of \$100,000, the vendor will be in compliance with all applicable standards, orders, or requirements issued under section 306 of the Clean Air Act (42 U.S.C. 1857(h)), section 508 of the Clean Water Act (33 U.S.C. 1368), Executive Order 11738, and Environmental Protection Agency regulations (40 CFR part 15).</p> <p>Does vendor certify that it is in compliance with the Clean Air Act?</p>	Yes
60	2 CFR PART 200 Procurement of Recovered Materials	<p>A non-Federal entity that is a state agency or agency of a political subdivision of a state and its contractors must comply with section 6002 of the Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act. The requirements of Section 6002 include procuring only items designated in guidelines of the Environmental Protection Agency (EPA) at 40 CFR part 247 that contain the highest percentage of recovered materials practicable, consistent with</p> <p>maintaining a satisfactory level of competition, where the purchase price of the item exceeds \$10,000 or the value of the quantity acquired during the preceding fiscal year exceeded \$10,000; procuring solid waste management services in a manner that maximizes energy and resource recovery; and establishing an affirmative procurement program for procurement of recovered materials identified in the EPA guidelines.</p> <p>Does vendor certify that it is in compliance with the Solid Waste Disposal Act as described above?</p>	Yes

61 Indemnification

The ESC Region 8 and TIPS is a Texas Political Subdivision and a local governmental entity; therefore, is prohibited from indemnifying third parties pursuant to the Texas Constitution (Article 3, Section 52) except as specifically provided by law or as ordered by a court of competent jurisdiction. A provision in a contract to indemnify or hold a party harmless is a promise to pay for any expenses the indemnified party incurs, if a specified event occurs, such as breaching the terms of the contract or negligently performing duties under the contract. Article III, Section 49 of the Texas Constitution states that "no debt shall be created by or on behalf of the State ... " The Attorney General has counseled that a contractually imposed obligation of indemnity creates a "debt" in the constitutional sense. Tex. Att'y Gen. Op. No. MW-475 (1982). Contract clauses which require the System or institutions to indemnify must be deleted or qualified with "to the extent permitted by the Constitution and Laws of the State of Texas." Liquidated damages, attorney's fees, waiver of vendor's liability, and waiver of statutes of limitations clauses should also be deleted or qualified with "to the extent permitted by the Constitution and laws of State of Texas." Not a negotiable term. Failure to agree will render your proposal non-responsive and it will not be considered. Do you agree to these terms?

Yes

62 Remedies

The parties shall be entitled to exercise any right or remedy available to it either at law or in equity, subject to the choice of law, venue and service of process clauses limitations agreed herein. Nothing in this agreement shall commit the TIPS to an arbitration resolution of any disagreement under any circumstances. Any Claim arising out of or related to the Contract, except for those specifically waived under the terms of the Contract, may, after denial of the Board of Directors, be subject to mediation at the request of either party. Any issues not resolved hereunder must be referred to non-binding mediation to be conducted by a mutually agreed upon mediator as a prerequisite to the filing of any lawsuit over such issue(s). The parties shall share the mediator's fee and any associated filing fee equally. Mediation shall be held in Camp or Titus County, Texas. Agreements reached in mediation shall be reduced to writing, and will be subject to the approval by the District's Board of Directors, signed by the Parties if approved by the Board of Directors, and, if signed, shall thereafter be enforceable as provided by the laws of the State of Texas. Do you agree to these terms?

Yes, I Agree

63 Remedies Explanation of No Answer

64	Choice of Law	<p>This agreement and any addenda or other additions and all contracts or awards resulting from this procurement process, however described, shall be governed by, construed and enforced in accordance with the laws of the State of Texas, regardless of any conflict of laws principles.</p> <p>Not a negotiable term. Failure to agree will render your proposal non-responsive and it will not be considered. Do you agree to these terms?</p>	Yes
65	Jurisdiction and Service of Process	<p>Any Proceeding arising out of or relating to this procurement process or any contract issued by TIPS resulting from or any contemplated transaction shall be brought in a court of competent jurisdiction in Camp County, Texas and each of the parties irrevocably submits to the exclusive jurisdiction of said court in any such proceeding, waives any objection it may now or hereafter have to venue or to convenience of forum, agrees that all claims in respect of the Proceeding shall be heard and determined only in any such court, and agrees not to bring any proceeding arising out of or relating to this procurement process or any contract resulting from or any contemplated transaction in any other court. The parties agree that either or both of them may file a copy of this paragraph with any court as written evidence of the knowing, voluntary and freely bargained for agreement between the parties irrevocably to waive any objections to venue or to convenience of forum. Process in any Proceeding referred to in the first sentence of this Section may be served on any party anywhere in the world. Venue clauses in contracts with TIPS members may be determined by the parties.</p> <p>Not a negotiable term. Failure to agree will render your proposal non-responsive and it will not be considered. Do you agree to these terms?</p>	Yes
66	Alternative Dispute Resolution	<p>Prior to filing of litigation, the parties may select non-binding mediation as a method of conflict resolution for issues arising out of or relating to this procurement process or any contract resulting from or any contemplated transaction. The parties agree that if nonbinding mediation is chosen as a resolution process, the parties must agree to the chosen mediator(s) and that all mediation venue shall be at a location in Camp or Titus, County, Texas agreed by the parties. The parties agree to share equally the cost of the mediation process and venue cost.</p> <p>Do you agree to these terms?</p>	Yes, I Agree
67	Alternative Dispute Resolution Explanation of No Answer		
68	Infringement(s)	<p>The successful vendor will be expected to indemnify and hold harmless the TIPS and its employees, officers, agents, representatives, contractors, assignees and designees from any and all third party claims and judgments involving infringement of patent, copyright, trade secrets, trade or service marks, and any other intellectual or intangible property rights in connection with the vendor's proposal or ultimate contracts awarded and approved.</p>	Yes, I Agree

Do you agree to these terms?

69    Infringement(s) Explanation of No Answer

70    Acts or Omissions

The successful vendor will be expected to indemnify and hold harmless the TIPS, its officers, employees, agents, representatives, contractors, assignees and designees from and against any and all liability, actions, claims, demands or suits, and all related costs, attorney's fees and expenses arising out of, or resulting from any acts or omissions of the vendor or its agents, employees, subcontractors, or suppliers in the execution or performance of any agreements ultimately made by TIPS and the vendor.  
Do you agree to these terms?

Yes, I Agree

71    Acts or Omissions Explanation of No Answer

72    Contract Governance

Any contract made or entered into by the TIPS is subject to and is to be governed by Section 271.151 et seq, Tex Loc Gov't Code. Otherwise, TIPS does not waive its governmental immunities from suit or liability except to the extent expressly waived by other applicable laws in clear and unambiguous language.

Yes

73    Payment Terms and Funding Out Clause

Payment Terms:  
TIPS members pay net 30 or at point of sale and complies with the State of Texas payment law, Texas Government Code, Chapter 2251. See statute for specifics or consult your legal counsel. These are minimum terms required of the TIPS member in Texas by law and the parties may negotiate custom payment terms as desired provided they do not violate the statutory requirements. Statutory or binding regulations control TIPS members in this contract.  
Funding out Clause:  
Pursuant to Texas Local Government Code Sec. 271.903, any proposal offer accepted by TIPS and its members and all contracts to be approved are subject to the budgeting and appropriation of then currently available funds. See statute for specifics or consult your legal counsel.  
Not a negotiable term. Failure to agree will render your proposal non-responsive and it will not be considered. Do you agree to these terms?

Yes

74 Insurance and Fingerprint Requirements  
Information

Insurance

If applicable and your staff will be on TIPS member premises for delivery, training or installation etc. and/or with an automobile, you must carry automobile insurance as required by law. You may be asked to provide proof of insurance.

Fingerprint

It is possible that a vendor may be subject to Chapter 22 of the Texas Education Code. The Texas Education Code, Chapter 22, Section 22.0834. Statutory language may be found at: <http://www.statutes.legis.state.tx.us/>

If the vendor has staff that meet both of these criterion:

(1) will have continuing duties related to the contracted services; and

(2) has or will have direct contact with students

Then you have "covered" employees for purposes of completing the attached form.

TIPS recommends all vendors consult their legal counsel for guidance in compliance with this law. If you have questions on how to comply, see below. If you have questions on compliance with this code section, contact the Texas Department of Public Safety Non-Criminal Justice Unit, Access and Dissemination Bureau, FAST-FACT at

NCJU@txdps.state.tx.us and you should send an email identifying you as a contractor to a Texas Independent School District or ESC Region 8 and TIPS. Texas DPS phone number is (512) 424-2474.

See form in the next attribute to complete entitled:

Texas Education Code Chapter 22 Contractor Certification for Contractor Employees

(No Response Required)

<p>75 Texas Education Code Chapter 22 Contractor Certification for Contractor Employees</p>	<p>Introduction: Texas Education Code Chapter 22 requires entities that contract with school districts to provide services to obtain criminal history record information regarding covered employees. Contractors must certify to the district that they have complied. Covered employees with disqualifying criminal histories are prohibited from serving at a school district.</p> <p>Definitions: Covered employees: Employees of a contractor or subcontractor who have or will have continuing duties related to the service to be performed at the District and have or will have direct contact with students. The District will be the final arbiter of what constitutes direct contact with students. Disqualifying criminal history: Any conviction or other criminal history information designated by the District, or one of the following offenses, if at the time of the offense, the victim was under 18 or enrolled in a public school:</p> <p>(a) a felony offense under Title 5, Texas Penal Code; (b) an offense for which a defendant is required to register as a sex offender under Chapter 62, Texas Code of Criminal Procedure; or (c) an equivalent offense under federal law or the laws of another state.</p> <p>I certify that:</p> <p>NONE (Section A) of the employees of Contractor and any subcontractors are covered employees, as defined above. If this box is checked, I further certify that Contractor has taken precautions or imposed conditions to ensure that the employees of Contractor and any subcontractor will not become covered employees. Contractor will maintain these precautions or conditions throughout the time the contracted services are provided.</p> <p>OR</p> <p>SOME (Section B) or all of the employees of Contractor and any subcontractor are covered employees. If this box is checked, I further certify that:</p> <p>(1) Contractor has obtained all required criminal history record information regarding its covered employees. None of the covered employees has a disqualifying criminal history.</p> <p>(2) If Contractor receives information that a covered employee subsequently has a reported criminal history, Contractor will immediately remove the covered employee from contract duties and notify the District in writing within 3 business days.</p> <p>(3) Upon request, Contractor will provide the District with the name and any other requested information of covered employees so that the District may obtain criminal history record information on the covered employees.</p> <p>(4) If the District objects to the assignment of a covered employee on the basis of the covered employee's criminal history record information, Contractor agrees to discontinue using that covered employee to provide services at the District.</p> <p>Noncompliance or misrepresentation regarding this certification may be grounds for contract termination.</p>	<p>None</p>
<p>76 Solicitation Deviation/Compliance</p>	<p>Does the vendor agree with the General Conditions Standard Terms and Conditions or Item Specifications listed in this proposal invitation?</p>	<p>Yes</p>



- 77 Solicitation Exceptions/Deviations Explanation If the bidder intends to deviate from the General Conditions Standard Terms and Conditions or Item Specifications listed in this proposal invitation, all such deviations must be listed on this attribute, with complete and detailed conditions and information included or attached.  
TIPS will consider any deviations in its proposal award decisions, and TIPS reserves the right to accept or reject any bid based upon any deviations indicated below or in any attachments or inclusions.  
In the absence of any deviation entry on this attribute, the proposer assures TIPS of their full compliance with the Standard Terms and Conditions, Item Specifications, and all other information contained in this Solicitation.
- 78 Agreement Deviation/Compliance Does the vendor agree with the language in the Vendor Agreement? Yes
- 79 Agreement Exceptions/Deviations Explanation If the proposing Vendor desires to deviate from the Vendor Agreement language, all such deviations must be listed on this attribute, with complete and detailed conditions and information included. TIPS will consider any deviations in its proposal award decisions, and TIPS reserves the right to accept or reject any proposal based upon any deviations indicated below. In the absence of any deviation entry on this attribute, the proposer assures TIPS of their full compliance with the Vendor Agreement.

Line Items		
Response Total:		\$0.00

REFERENCES
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Please provide three (3) references, preferably from school districts or other governmental entities who have used your services within the last three years. Additional references may be required. DO NOT INCLUDE TIPS EMPLOYEES AS A REFERENCE.

You may provide more than three (3) references.

Entity Name	Contact Person	Email	Telephone
Aurora Sports Park Expansion-	John Sawatzke	<a href="mailto:jsawatzk@auroragov.org">jsawatzk@auroragov.org</a>	(303) 739-7164
Boston University-	Tim Cavanaugh	<a href="mailto:timmyc@bu.edu">timmyc@bu.edu</a>	(617) 353-2771
CASL- Stadium	Bob Harris	<a href="mailto:bob.harris@casInc.com">bob.harris@casInc.com</a>	(919) 673-3175
Millikin University	Jameson Sheley	<a href="mailto:jsheley@bymeandjones.com">jsheley@bymeandjones.com</a>	(314) 220-9533
New England Baseball	Andrew Collins	<a href="mailto:collins.neruffnecks@gmail.com">collins.neruffnecks@gmail.com</a>	(617) 549-7813
Richmond Strikers-	Chris Friant	<a href="mailto:chris@richmondstrikers.com">chris@richmondstrikers.com</a>	(804) 350-0022
Swope Park	David Ficklin	<a href="mailto:dficklin@sportingkc.com">dficklin@sportingkc.com</a>	(816) 204-5295
The Children's Hospital - South Campus-	Steve Jewell	<a href="mailto:steve@academysportsturf.com">steve@academysportsturf.com</a>	(303) 789-3172
University of Colorado-Colorado Springs Recreation Field	Charles Cummings	<a href="mailto:ccummin2@uccs.edu">ccummin2@uccs.edu</a>	(719) 255-4159
US Lacrosse Center-	Kate Bernal	<a href="mailto:kbernal@usalacrosse.org">kbernal@usalacrosse.org</a>	(410) 235-6882



# VICTORY

## IS AT YOUR FEET

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**GreenFields**



FOOTBALL • SOCCER • BASEBALL/SOFTBALL • MULTIPURPOSE • LACROSSE • FIELD HOCKEY



# YOUR PROJECT IS OUR PASSION

For over a decade, GreenFields has been building our reputation as the global leader in artificial grass.

Our experience speaks for itself:



At GreenFields USA, we maintain a strong dedication and commitment to developing and implementing groundbreaking technologies through our high quality artificial turf systems. Through exhaustive testing, research and development coupled with strategic alliances, university studies, constant communication with our customers and international relations, we have an indispensable formula for always moving forward and constantly improving.

By combining quality, innovation and environmental responsibility, we are able to provide a level of service that is unmatched by any company in our industry.

Find out what GreenFields can do for you.

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## OUR PASSION FOR THE TOUGHEST TURF. YOUR FIRST-STRING DEFENSE.

**Few sports can compare with the brute force and fighting spirit of football—a balance of competitive play and an exciting spectator experience.**

But if you've ever seen a game played on a natural grass field or old, worn-out synthetic turf, you know that just one game can totally obliterate

that playing surface. And not only can that affect the game—it can have a huge impact on player safety. To us, that deserves a major penalty.

Our artificial turf is rugged and durable. It stands up to some of the toughest punishment an athlete can give it—while keeping him off the disabled list. Couple ever-evolving technology with the right kind of playing surface and you have the perfect recipe for action and excitement, all while minimizing injury.

Every yard, every down, every touchdown—GreenFields can take whatever your players dish out.



**Soccer is the world's most played and most popular sport—and it is rapidly gaining popularity in the United States.**

Over the years, though, various issues surrounding natural grass and the use of outdated kinds of artificial turf have been brought to light. Inconsistent playing surfaces, the wear that affects the field over time, the unpredictability of natural grass terrain, and worn-out, flat and useless artificial turf fibers are all serious problems.

At GreenFields, we take a multi-disciplinary approach to continually improving every element of our synthetic turf systems. **As a Preferred Producer for FIFA**, GreenFields consistently goes beyond the traditional role of the supplier/installer by constantly improving the total quality of our tightly integrated services and products.

Our status as a FIFA Preferred Producer reflects our vision to create flawless playing conditions throughout the world. Whether it is an international professional tournament or a local game, GreenFields is there to assist with your goals.



### WOVEN SYSTEMS

Produced using our new and patented triple "W-Weaving" technique.



### TUFTED SYSTEMS

The use of tufting is traditional in producing artificial turf.



## OUR PASSION FOR PERFECTION. YOUR FLAWLESS FIELD.



# OUR PASSION FOR ENHANCING GAMEPLAY. YOUR HOME RUN.

There are numerous considerations when it comes to selecting the playing surface for baseball and softball. Through years of advancement and innovations in synthetic turf science, modern playing surfaces have gone through a significant evolution in recent years, and GreenFields has been at the leading edge.

When choosing a synthetic playing surface, you need to know that what you are getting represents a level of quality consistent with the investment, and one that is going to be comfortable, safe and reliable for years to come.

When you partner with GreenFields to build your baseball or softball field, you're guaranteed to knock it out of the park.



BASEBALL  
& SOFTBALL



MULTI  
PURPOSE



## Few things draw people together like rooting for their favorite sports teams.

It allows people to share in the thrill of victory as well as the agony of defeat with their teams. The unifying power of sports and its capability of bringing about social harmony are things in which we at GreenFields believe whole-heartedly.

## OUR PASSION FOR ALL SPORTS. YOUR ABILITY TO PLAY THE FIELD.

Though we provide a number of sport-specific options, we are dedicated to all sports and have a variety of options for multipurpose fields. No matter what is being played, you require a safe and reliable surface, so that ball roll and bounce, as well as rotational friction, energy restitution, shock absorption and sliding resistance work together to minimize injury.

Whether your players will be kicking a soccer ball, throwing a football, hitting home runs or more, GreenFields delivers flexibility, durability and a commitment to you.



# OUR PASSION FOR SMOOTH PLAYABILITY. YOUR OPTIMAL PERFORMANCE.



Lacrosse is known as the “fastest game on two feet.” Consequently, players of all ages not only demand a safe and durable playing surface, but one that is conducive to the specific play of the sport.

Their playing surface needs to be durable yet yielding, as well as capable of minimizing injury—a challenge we heartily accept. Your expertly engineered lacrosse field installed by GreenFields gives players a consummate advantage due to our innovations in athlete safety and turf resilience.

As the official turf provider to US Lacrosse, we design all our athletic fields to bring out the very best in each and every athlete. GreenFields maximizes the precision of control and roll of the ball and enhances player agility, all with attention to durability and safety.

When you entrust GreenFields to design your lacrosse field, your investment is heavily protected by truly passionate and expert craftsmanship coupled with forward-thinking, cutting-edge technology. You can be certain that every move made on the field—from players to coaches—reflects their absolute best.



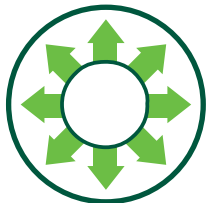
Field hockey is one of the most comprehensive sports in the world, one that demands a great deal from its players—like speed, agility and strength. This precise combination creates high demands for the base on which it is played.

GreenFields® TX™, our innovative synthetic turf system, was developed in tight collaboration with technology specialist TenCate and leading field hockey players. Not only does our TX™ system comply with the International Field Hockey Federation (FIH) standards, but it has also been named **#1 in the world by the FIH World Cup organization.**

There can only be one #1. Every top athlete knows that. Every top athlete aspires to achieve that. And when your players are standing victorious, it's GreenFields that will be under their feet.



# OUR PASSION FOR BEING #1. YOUR NEED FOR THE PERFECT PITCH.



## CONTROL

Identical unidirectional ball roll, high roll speed, and ball accuracy.



## SPEED

Ultimate playing surface for high-speed combo play.



## GRIP

Quality, consistent torsion (foot grip)



# OUR SYNTHETIC TURF. YOUR ALL-SEASON SOLUTION.

GreenFields’ innovative approach to building the best artificial turf systems in the world has been inspired by nature. Everything we make is designed to emulate the playability and performance of a natural grass sports field, but with a level of durability that a natural surface could never match. These characteristics allow players to have the best possible experience when using our products. As the leader in certified FIFA fields worldwide, GreenFields provides an original and technologically advanced product portfolio. **But why is synthetic turf a better choice?**

## BENEFITS OF SYNTHETIC TURF

**RESISTANCE TO DIFFICULT CLIMATE CONDITIONS**  
No matter what climate your field resides in, synthetic turf provides consistent performance. With a grass field, the climate can make growth and maintenance a real burden—affecting your bottom line.

**LOW MAINTENANCE**  
GreenFields artificial surfaces are easier to maintain—so you’ll save both time and money. We conveniently provide customer service as you need it.

**LONGER PLAYING HOURS**  
In addition to the savings that our low-maintenance fields will net, your GreenFields synthetic turf can be used around the clock with no recovery time. That means fewer playing fields and happier athletes.

**IDEAL FOR COVERED OR STEEP-SIDED STADIUMS**  
Often the needs of a grass field outweigh the needs of your spectators. But with GreenFields, you won’t need sunlight, wind or rain—so place your field and your fans where they can enjoy the game.

**MULTI-USAGE**  
In addition to training sessions and matches, your field could be rented out to companies or municipalities, thanks to zero recovery time and high durability.

**IMPROVED AND CONSISTENT PLAYING CONDITIONS**  
We are constantly innovating, so that your field will show consistent resilience, and provide low-maintenance and durability that is unmatched by the competition or a natural grass field.

# OUR PASSION FOR TOTAL SOLUTIONS. YOUR PARTNER FROM START TO FINISH.

The properties of the individual components of a turf system are not a measure of performance. It’s not just the turf, or the infill or the shock pad. **The quality of a synthetic turf system is determined by the know-how to combine the individual elements into a total system.** At GreenFields USA, we take a multi-disciplinary approach to continually improve all the elements of a synthetic turf system. Your design is based upon evaluation of the local data provided by our sales partner, engineers and the customer. Each design ensures precision for the installation of surrounding elements, the drainage system, the sub-base construction and the turf system.

## OUR TOTAL TURF SYSTEM



**A stable and suitable base** is extremely important for the overall quality of the field and its lifespan. On a regular basis, a GreenFields supervisor will be present during construction and check whether the work is progressing according to the design and within the planned time schedule.



**The installation of synthetic turf** will only take place after the quality of the sub-base and eventually the shock absorption layer, if applicable, have been approved. After the turf has been laid, the infill materials (sand and rubber) are applied to the field in several layers. After each layer is spread, the infill is brushed between the fibers and finally another spreading and brushing session is done to ensure an even distribution of the infill.



**We finish your new field with performance testing** by an accredited testing institute with their own measuring equipment or by the customer, depending on your needs.

**The end result of a field designed and built by GreenFields is one that will require minimum maintenance and provide a durable, world-class surface for years to come.**



# MX TRIMENSION™

## INNOVATION INSPIRED BY NATURE

### PRODUCT GUIDE



## NATURAL PLAYING ABILITY YOU NEED TO SEE TO BELIEVE



MX TRIMENSION™  
W-WEAVE  
TECHNOLOGY

### Meet the new generation of grass.

MX Trimension™ has the look and feel of natural grass—and it's **100% recyclable**. Our fields are strong and durable, designed to last for years, and due to the environmentally-friendly materials, will never need to end up in a landfill.

With the combination of the patented triple W-weave technology and arched-shaped, diamond-shaped and Trilobal-shaped fibers, GreenFields offers a playing surface that is fully inspired by Mother Nature—but with durability and consistency that grass can't deliver.

This is the turf that makes everyone from athletes to fans enjoy the best of the game. Players will play their best due to the natural look and soft touch of MX Trimension™. Spectators watching on television will feel like they're on the field due to the subdued glare made possible by the innovation of MX Trimension™.



**HIGH RESILIENCE:** DENSITY AND COMBINATION OF FIBERS



**NO SINGLE PILE DIRECTION:** NATURAL BALL ROLL, BOUNCE, GRIP AND TRACTION



**NATURAL LOOK:** DISPERSED LIGHT REFLECTION, REDUCED TV GLARE



**W-WEAVING TECHNIQUE:** MINIMAL INFILL SPLASH



# XP BLADE+™

# SLIDE MAX XQ™



## FIELDS EVEN THE TOUGHEST SPORTS

**Comfort, safety, resilience, and extraordinary durability.** Who says you can't have it all? With GreenFields® XP Blade+™ fibers, the softest surface can handle your heaviest traffic.

XP Blade+™ offers superior playing comfort with a natural appearance and soft surface for players. It features the most advanced fibrillated fibers currently available.

XP Blade+™ is manufactured by means of a patented slit-film extrusion process involving a narrower fibrillation pattern than other fibrillated synthetic turf fibers. Designated “long slit” or “parallel” type fibers, the unique properties of XP Blade+™ result in grass fibers with enhanced durability and increased comfort and safety.

So give XP Blade+™ what you've got—it can take it.

## SCORES A VICTORY WITH VALUE

**Though we're a FIFA Preferred Provider,** GreenFields doesn't just install fields for professional athletes. We serve communities all over the world, big and small, and many synthetic turf fields—especially public and small playing surfaces—are exposed to constant wear and get little maintenance.

XQ™ technology, developed by TenCate, is a breakthrough in polymer processing. It provides turf fibers with unprecedented split resistance. Designed as diamond-shaped fibers with a ribbed surface, GreenFields® Slide Max XQ™ is the most advanced, ultra-durable turf fibers with high resilience and increased comfort and safety.

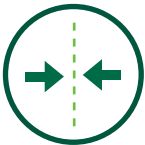
When you need turf that can stand up in the harshest of conditions without constant care, GreenFields® Slide Max XQ™ is the solution for you.



HIGH COMFORT  
AND SAFETY



NATURAL LOOK  
(DUOTONE)



SPLIT RESISTANT



EXTRAORDINARILY  
DURABLE



HIGH RESILIENCE



HIGH COMFORT  
AND SAFETY



NATURAL LOOK  
(DUOTONE)



ULTRA DURABLE

SLIDE MAX XP™

TX™



HIGH COMFORT  
AND SAFETY



NATURAL LOOK  
(DUOTONE)



HIGH RESILIENCE



ULTRA DURABLE

## DURABILITY, LOW-MAINTENANCE, SOFTNESS: THE ULTIMATE TRIPLE THREAT

**You need quality you can count on** without needing to rely on constant upkeep. Luckily, GreenFields has developed turf with the perfect balance to suit your needs.

Slide Max XP™ is a combination of diamond-shaped and XP™ fibers. Slide Max™ with 365 microns can withstand frequent use for many years. Together with the extraordinarily durable XP™ fibers, this system provides the ultimate combination of advanced performance and durability with a natural visual appeal.

Never compromise—GreenFields has the advanced solution you need without sacrificing safety, resilience or durability.

## THE ALL-STAR THAT GOES FOR GOAL AFTER GOAL

**Your team is certain to benefit** from playing on a world-class field hockey field with our artificial turf. The GreenFields® TX™ hockey turf system ensures accurate ball control, ball roll/speed, ball bounce and absorption for safe and reliable playing performance and conditions.

**GreenFields® TX™ was chosen as the official playing surface for the 2014 Rabobank Hockey World Cup.** Players appreciated the high quality playing characteristics, faster pace of the game and the excellent bounce properties resulting in better-executed stroke technique.

GreenFields® TX™ challenges the boundaries of quality, sustainability and performance and meets the high demands of modern field hockey. This turf allows for enhanced tactics and techniques to accommodate “fast track” play with high precision ball control.

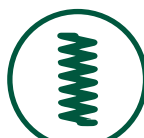
Whether you need a brand new installation or just an upgrade for your existing field, GreenFields offers players and fans the best possible experience of top-flight modern field hockey.



HIGH BALL SPEED WITH  
UNIFORM BALL ROLL



ENHANCED SLIDING  
CHARACTERISTICS



MAXIMUM  
SHOCK ABSORPTION



CONSISTENT PLAYING  
CHARACTERISTICS



# OUR PASSION FOR PERFORMANCE. YOUR CONTROL OVER MAINTENANCE.

**Synthetic turf can save up to 75% of the man hours typically required to maintain a grass field.** However, some essential maintenance is necessary to ensure you maximize the playing characteristic and durability of your synthetic turf. GreenFields has developed a comprehensive maintenance package which includes tools and equipment, maintenance training, maintenance manual and a maintenance quality system to ensure your synthetic turf is always in the best possible condition.

**All synthetic turf sports fields have a certain lifespan.** That lifespan is largely affected by the amount of usage your field gets annually. The right maintenance program can extend the life of your field dramatically. We provide onsite training for performing care and maintenance on a daily, weekly or monthly schedule as well as incidental repairs and occasional maintenance. If necessary, your local GreenFields office will also arrange routine professional maintenance for your field on a contractual basis.

**GreenFields also provides technical support** for all of your testing, repair and maintenance needs. With proactive and prompt maintenance and repair, long-term damage can be drastically reduced. GreenFields is here to keep your field playable.



## TENCATE AND GREENFIELDS— AN UNSTOPPABLE GREEN TEAM.

**In 2010, GreenFields officially became a part of TenCate:** a group of companies serving as a world leader in the field of textile manufacturing. They are a centuries-old, multinational corporation with a rich history of innovation and a vision that is truly timeless. This historic partnership has assisted us in us elevating our brand and has helped our company position itself as a leader in the industry of synthetic sports turf.

**TenCate and GreenFields use our combined experience and expertise** to introduce game-changing technological and sustainable innovations for a strategic approach to the synthetic turf industry. Together, we have resources to increase the impact of our mutual vision, from innovation and development of components to integrated production processes.

**This strategic alliance through shared participation** proves once again TenCate’s ambition to achieve close cooperation with companies that supply total solutions with synthetic turf systems. TenCate aspires to achieve the safe practice of sports under the best possible circumstances. Through the agreement with GreenFields, a decisive step has been taken to play a major role in the quality and total system approach on a worldwide level.



# OUR PASSION FOR THE PLANET. YOUR FIELD, LEADING THE WAY.



**We believe that sustainability will soon shape the values within the synthetic turf industry and it's our goal to remain at the head of the pack.** We will continue innovating. We will continue improving our processes and products. We will continue to make green fields. And that's a promise.

**Today, environmental considerations are regarded as an integral part** of our company's operations and strategies, from product development and production all the way through to recycling of synthetic turf systems.

**For GreenFields, sustainability is not only about reducing consumption** of non-renewable resources. It is an all-encompassing drive to be more efficient, a drive that affects product decisions, manufacturing facilities and the value chain alike—and allows us to develop products today that can be recycled and eventually reused tomorrow.

**We focus our research and development on the application of innovative and green-minded production solutions related to sustainable product development, inspired by nature.** As a response to social change and environmental demands, GreenFields has developed a Green Generation Turf—a synthetic turf that is 100% recyclable.

**Based upon a patented weaving technique** in combination with environmentally safe and healthy materials, Green Generation Turf design guarantees material reutilization by making it possible to use the materials from the same product family. As a consequence, the components of MX Trimension™, from the backing to the fibers, can be made of the same environmentally friendly material, making select synthetic turf 100% recyclable.

**Being a responsible, ethical company today requires that we go beyond** doing "business as usual"—it requires an investment in society and the environment. At GreenFields, we acknowledge this responsibility as a key player of green thinking within the industry and the world of sports.





**GreenFields**







GreenFields TX

TECHNICAL DATAHT1T1282163241301LE (US)

Type	3/16 tufted non-filled synthetic grass carpet, straight stitch pattern	
Pile content	100% Ten Cate LSR monofilament, U.V.- resistant, 7,600/10 denier, texturized, 155 microns	
Primary backing	Double : - 100% PP Thiobac with fiber locked fleece, black, U.V.- stabilized, weight 4.84 oz/yd² and - fiber glass rotary weave, weight 4.2 oz/yd²	
Secondary backing	Latex compound with a base of styrene-butadiene (SBR), with (SBR), with drainage holes	
Tertiary backing	Glass/polyester reinforcement 6.7 oz/yd²	
Pile height	± ½ inch	+/- 1 mm
Total thickness	± ⅝ inch	+/- 1 mm
Stitch rate per inch	± 7.5 per inch	+/- 1
Number of tufts/yd²	± 51,840 /yd²	+/- 5%
Number of filaments/yd²	± 518,400 /yd²	+/- 5%
Face weight	± 54.6 oz/yd²	+/- 2%
Weight primary backing	± 4.84 oz/yd²	+/- 5%
Fiber glass reinforcement	± 4.2 oz/yd²	+/- 5%
Weight secondary backing	± 38.3 oz/yd²	+/- 5%
Weight tertiary backing	± 6.7 oz/yd²	+/- 1%
Total weight	± 108.7 oz/yd²	+/- 5%
Roll width	± 161 inch	+/- 0.4 inch
Roll length	as required	
Tuft bind	≥ 6 lbs	
Water permeability	± 13.2 gallon/yd²/min (unfilled)	
Color Fastness	Xenon test : blue-scale>7, grey-scale>4	

COLOR

Dark green, olive green/field green, reflex blue, clay red, white and yellow for line marking.

INSTALLATION METHOD

Loose laid on bound or unbound sub base, with a shock pad, glued or sewn seams. Line marking tufted in and/or in-laid.

PRODUCT APPLICATION

Hockey, Multifunctional

GreenFields has the right to alter each product specification in order to improve the system according to the latest standards. GreenFields is not legally liable in case of non compliance with the above mentioned specifications. The conversion from metric into imperial as shown on this product specification may contain rounding differences. In case of non compliance the metric numbers as shown will be applicable.







# MX TRIMENSION 50

## TECHNICAL DATA

Type	Woven synthetic grass carpet, with special patented matrix stitch pattern.
Pile content	100% Thiolon Xtreme monofilaments, U.V. resistant combination of fibers, 42,600/24 denier: <ul style="list-style-type: none"><li>- Evolution XQ - arched shape, 10,800/6 denier, max 260/270 microns (2 strands)</li><li>- Trimension XQ - patented elastic trilobal, 9000/6 denier, 3 spine max 160 microns</li><li>- XWR - diamond shaped, 12000/6 denier, max 365 microns</li></ul>
Primary backing	Woven with 100% PP yarns, black, U.V. stabilized, weight 16.3 oz/yd <sup>2</sup>
Secondary backing	Polyurethane coating with drainage holes or permeable acrylic coating, weight 17.5 oz/yd <sup>2</sup>
Pile height	± 2 inch
Total thickness	± 2 inch
Pile weight	± 52.2 oz/yd <sup>2</sup>
Weight primary backing	± 16.3 oz/yd <sup>2</sup>
Weight secondary backing	± 17.5 oz/yd <sup>2</sup>
Total weight	± 86 oz/yd <sup>2</sup>
Roll width	± 157 inch
Roll length	as required
Tuft bind	≥ 14 lbs (yarn breaks)
Water permeability	≥ 13.2 gal/yd <sup>2</sup> /min
Colour fastness	Xenon test : blue-scale>7, grey-scale>4

## COLOUR

Field green and olive green.

## INSTALLATION METHOD

Loose laid on bound or unbound sub base, with a shock pad, or on the TenCate Ecocept System, with glued or sewn seams.

## INFILL (RECOMMENDED)

1st layer	:	Stabilizing base layer - (80% round), size of granules 0.3-0.8mm
2nd layer	:	Performance top layer - particle size of 0.8-2.5mm
*Exposed fiber can be no less than 1/2 inch.		

## PRODUCT APPLICATION

Football, Soccer, Baseball, Multi-functional



### FIFA Preferred Producer

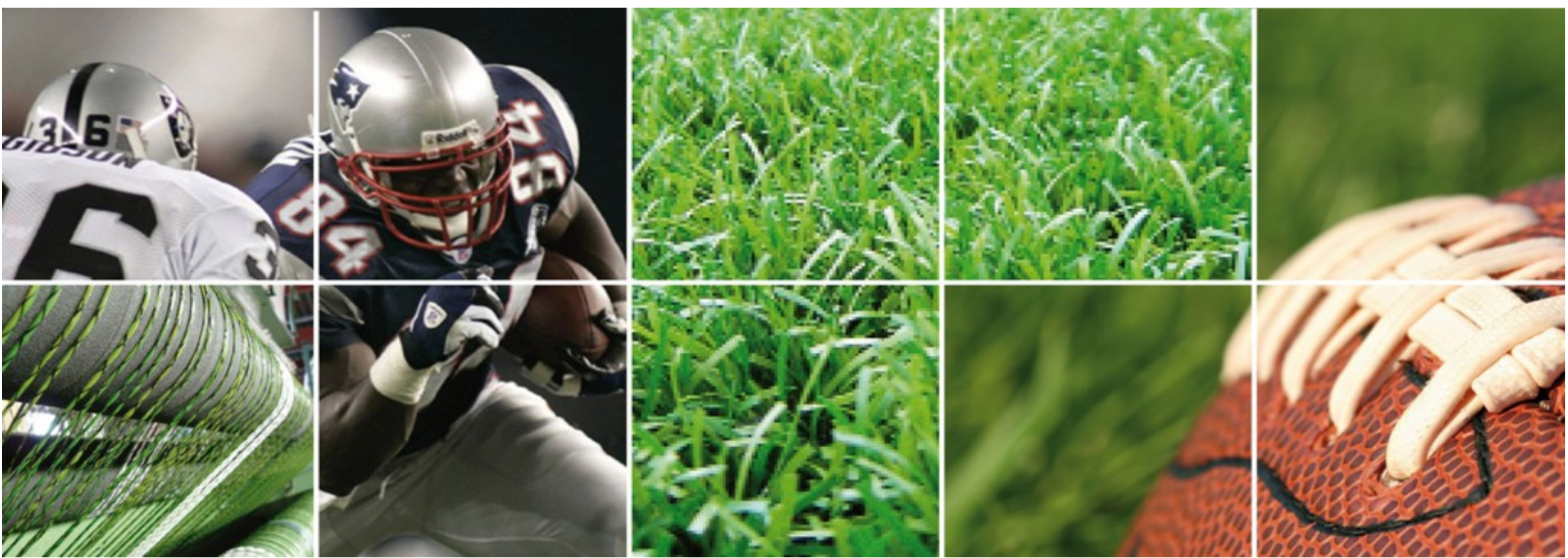
As a FIFA Preferred Producer for Football turf GreenFields supports the FIFA Quality Concept to achieve playing quality for all.



Pile Height, Total Thickness, Face weight, Primary & Secondary Backing Weight, and Total Weight can differ by ±10%. The stitch rate will change according to the exact specifications and can differ by ±1. Roll width can differ by ±0.8 inch.  
GreenFields has the right to alter each product specification in order to improve the system according to the latest standards. GreenFields is not legally liable in case of non-compliance with the above mentioned specifications.







SlideMax XP 50

TECHNICAL DATA

Type	Either 5/8" or 1/2" tufted synthetic grass carpet, straight stitch pattern	
Pile content	100% TenCate XQ monofilament, diamond shape, U.V. resistant, 12,000/6 denier, max 365 microns combined with 100% TenCate XP slit film blade yarn, U.V. resistant, 5,000/1 denier, max 100 microns	
Primary backing	Double Layer Thiobac, black, U.V. stabilized, 7.5 oz/yd <sup>2</sup> ; Layer 1 - 100% PP, Layer 2 PET/PP blend	
Secondary backing	Polyurethane coating, with drainage holes	
Pile height	± 2 inch	
Total thickness	± 2 1/8 inch	
Stitch rate per inch (length)	5/8": ± 2.98 inches	1/2": ± 4.91 inches
Face weight	± 48 oz/yd <sup>2</sup>	
Weight primary backing	± 7.5 oz/yd <sup>2</sup>	
Weight secondary backing	± 20 oz/yd <sup>2</sup>	
Total weight	± 75.8 oz/yd <sup>2</sup>	
Roll width	± 182 inch	
Roll length	as required	
Tuft bind	≥ 9 lbs	
Water permeability	± 13.2 gallon/yd <sup>2</sup> /min (unfilled)	
Color Fastness	Xenon test : blue-scale>7, grey-scale>4	

COLOR

Field / olive / lime green. White and yellow for line marking.

INSTALLATION METHOD

Loose laid on bound or unbound sub base, with or without a shock pad, glued or sewn seams.

INFILL (RECOMMENDED)

1st layer : Stabilizing base layer - (80% round), size of granules 0.3-0.8mm  
2nd layer : Performance top layer - particle size of 0.8-2.5mm  
\*Exposed fiber can be no less than 1/2 inch.

PRODUCT APPLICATION

Football, Soccer, Baseball, Multi-sport

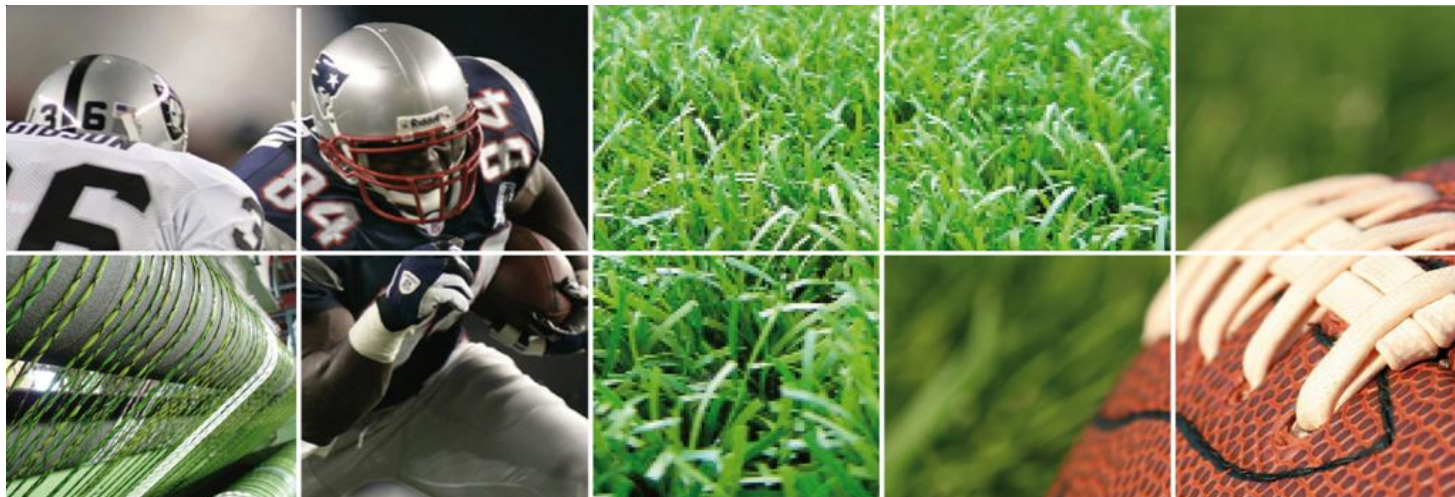
Fiber shape



Pile Height, Total Thickness, Face weight, Primary & Secondary Backing Weight, and Total Weight can differ by ±10%. The stitch rate will change according to the exact specifications and can differ by ±1. Roll width can differ by ±0.8 inch.  
GreenFields has the right to alter each product specification in order to improve the system according to the latest standards. GreenFields is not legally liable in case of non-compliance with the above mentioned specifications.







## SlideMax XP 60

### TECHNICAL DATA

Type	Either 5/8" or 1/2" tufted synthetic grass carpet, straight stitch pattern	
Pile content	100% TenCate XWR monofilament, diamond shape, U.V. resistant, 12,000/6 denier, max 365 microns combined with 100% TenCate XP slit film blade yarn, U.V. resistant, 5,000/1 denier, max 100 microns	
Primary backing	Double Layer Thiobac, black, U.V. stabilized, 7.5 oz/yd <sup>2</sup> ; Layer 1 - 100% PP, Layer 2 PET/PP blend	
Secondary backing	Polyurethane coating, with drainage holes, weight 20 oz/yd <sup>2</sup>	
Pile height	± 2¾ inch	
Total thickness	± 2.5 inch	
Stitch rate per inch (length)	5/8": ± 2.54 inches	1/2": ± 4.18 inches
Face weight	± 48 oz/yd <sup>2</sup>	
Weight primary backing	± 7.5 oz/yd <sup>2</sup>	
Weight secondary backing	± 20 oz/yd <sup>2</sup>	
Total weight	± 75.8 oz/yd <sup>2</sup>	
Roll width	± 182 inch	
Roll length	as required	
Tuft bind	≥ 9 lbs	
Water permeability	± 13.2 gallon/yd <sup>2</sup> /min (unfilled)	
Color Fastness	Xenon test : blue-scale>7, grey-scale>4	

### COLOR

Field / olive / lime green. White and yellow for line marking.

### INSTALLATION METHOD

Loose laid on bound or unbound sub base, with or without a shock pad, sewn seams.

### INFILL (RECOMMENDED)

1st layer : Stabilizing base layer - (80% round), size of granules 0.3-0.8mm

2nd layer : Performance top layer - particle size of 0.8-2.5mm

\* Exposed fiber can be no less than 1/2 inch

### PRODUCT APPLICATION

Football, Soccer, Baseball, Multi-sport

Fiber shape



Pile Height, Total Thickness, Face weight, Primary & Secondary Backing Weight, and Total Weight can differ by ±10%. The stitch rate will change according to the exact specifications and can differ by ±1. Roll width can differ by ±0.8 inch. GreenFields has the right to alter each product specification in order to improve the system according to the latest standards. GreenFields is not legally liable in case of non-compliance with the above mentioned specifications.



**GreenFields**  
HIGH PERFORMANCE TURF

GreenFields USA | 1131 Broadway Street | Dayton TN 37321 | T:855-773-6668 | [www.greenfieldsusa.com](http://www.greenfieldsusa.com)



# SlideMax XQ 50

## TECHNICAL DATA

Type	Either 5/8" or 1/2" tufted synthetic grass carpet, straight stitch pattern	
Pile content	100% TenCate XWR monofilament, diamond shape, U.V. resistant, 12,000/6 denier, max 365 microns	
Primary backing	Double Layer Thiobac, black, U.V. stabilized, 7.5 oz/yd²; Layer 1 - 100% PP, Layer 2 PET/PP blend	
Secondary backing	Polyurethane coating, with drainage holes, weight 20 oz/yd²	
Pile height	± 2 inch	
Total thickness	± 2 1/8 inch	
Stitch rate per inch (length)	5/8": ± 2.8 per inches	1/2": ± 3.56 per inches
Face weight	± 40 oz/yd²	
Weight primary backing	± 7.5 oz/yd²	
Weight secondary backing	± 20 oz/yd²	
Total weight	± 67.8 oz/yd²	
Roll width	± 180 inch	
Roll length	as required	
Tuft bind	≥ 9 lbs	
Water permeability	± 13.2 gallon/yd²/min (unfilled)	
Color Fastness	Xenon test : blue-scale>7, grey-scale>4	

## COLOR

Duotone (Field green/Olive green), White and yellow for line marking.

## INSTALLATION METHOD

Loose laid on bound or unbound sub base, with or without a shock pad, glued or sewn seams.

## INFILL (RECOMMENDED)

- 1st layer : Stabilizing base layer - (80% round), size of granules 0.3-0.8mm
  - 2nd layer : Performance top layer - particle size of 0.8-2.5mm
- \*Exposed fiber can be no less than 1/2 inch.

## PRODUCT APPLICATION

Soccer, Football, Baseball, Multi-sport



**FIFA Preferred Producer**  
As a FIFA Preferred Producer for Football turf GreenFields supports the FIFA Quality Concept to achieve playing quality for all.

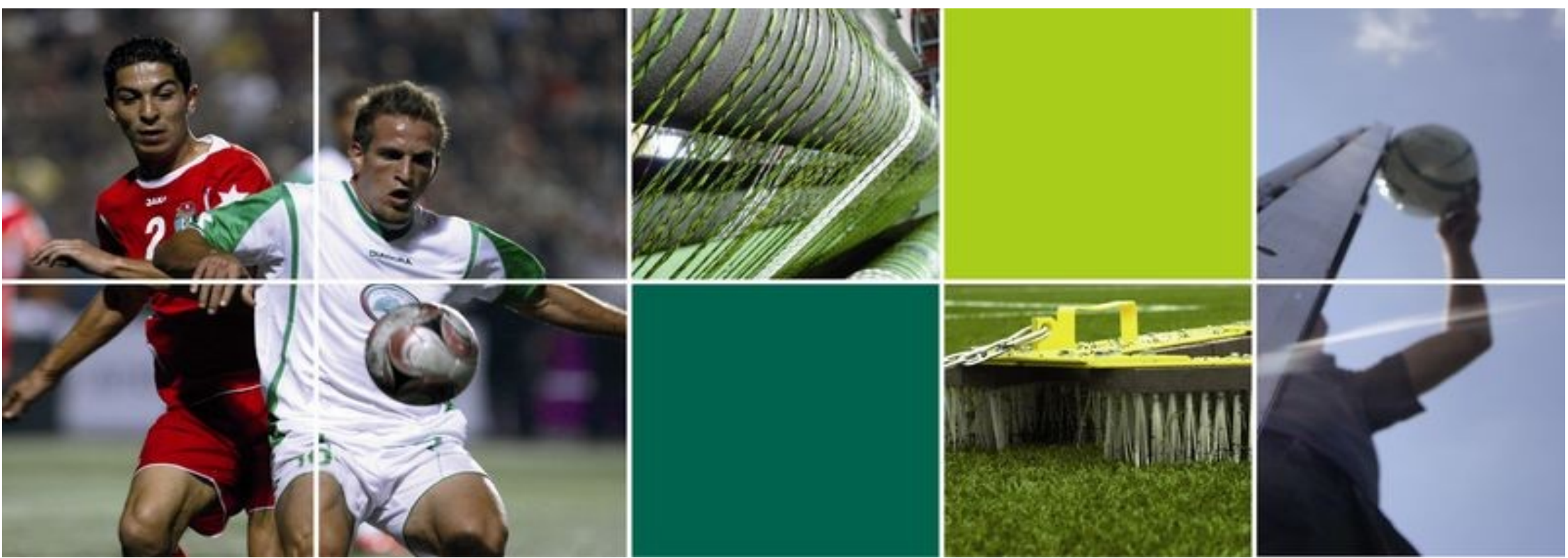
Fiber shape



Pile Height, Total Thickness, Face weight, Primary & Secondary Backing Weight, and Total Weight can differ by ±10%. The stitch rate will change according to the exact specifications and can differ by ±1. Roll width can differ by ±0.8 inch. GreenFields has the right to alter each product specification in order to improve the system according to the latest standards. GreenFields is not legally liable in case of non-compliance with the above mentioned specifications.







SlideMax XQ 60

TECHNICAL DATA

Type	Either 5/8" or 1/2" tufted synthetic grass carpet, straight stitch pattern	
Pile content	100% TenCate XWR monofilament, diamond shape, U.V. resistant, 12,000/6 denier, max 365 microns	
Primary backing	Double Layer Thiobac, black, U.V. stabilized, 7.5 oz/yd²; Layer 1 - 100% PP, Layer 2 PET/PP blend	
Secondary backing	Polyurethane coating, with drainage holes, weight 20 oz/yd²	
Pile height	± 2¾ inch	
Total thickness	± 2½ inch	
Stitch rate per inch (length)	5/8: ± 3.35 per inch	1/2": ± 2.64 per inch
Face weight	± 44 oz/yd²	
Weight primary backing	± 7.5 oz/yd²	
Weight secondary backing	± 20 oz/yd²	
Total weight	± 71.8 oz/yd²	
Roll width	± 182 inch	
Roll length	as required	
Tuft bind	≥ 9 lbs	
Water permeability	± 13.2 gallon/yd²/min (unfilled)	
Color Fastness	Xenon test : blue-scale>7, grey-scale>4	

COLOR

Duotone (Field green/Olive green), White and yellow for line marking.

INSTALLATION METHOD

Loose laid on bound or unbound sub base, with or without a shock pad, glued or sewn seams.

INFILL (RECOMMENDED)

- 1st layer : Stabilizing base layer - (80% round), size of granules 0.3-0.8mm
- 2nd layer : Performance top layer - particle size of 0.8-2.5mm
- \*Exposed fiber can be no less than 1/2 inch

PRODUCT APPLICATION

Soccer, Football, Baseball, Multi-sport



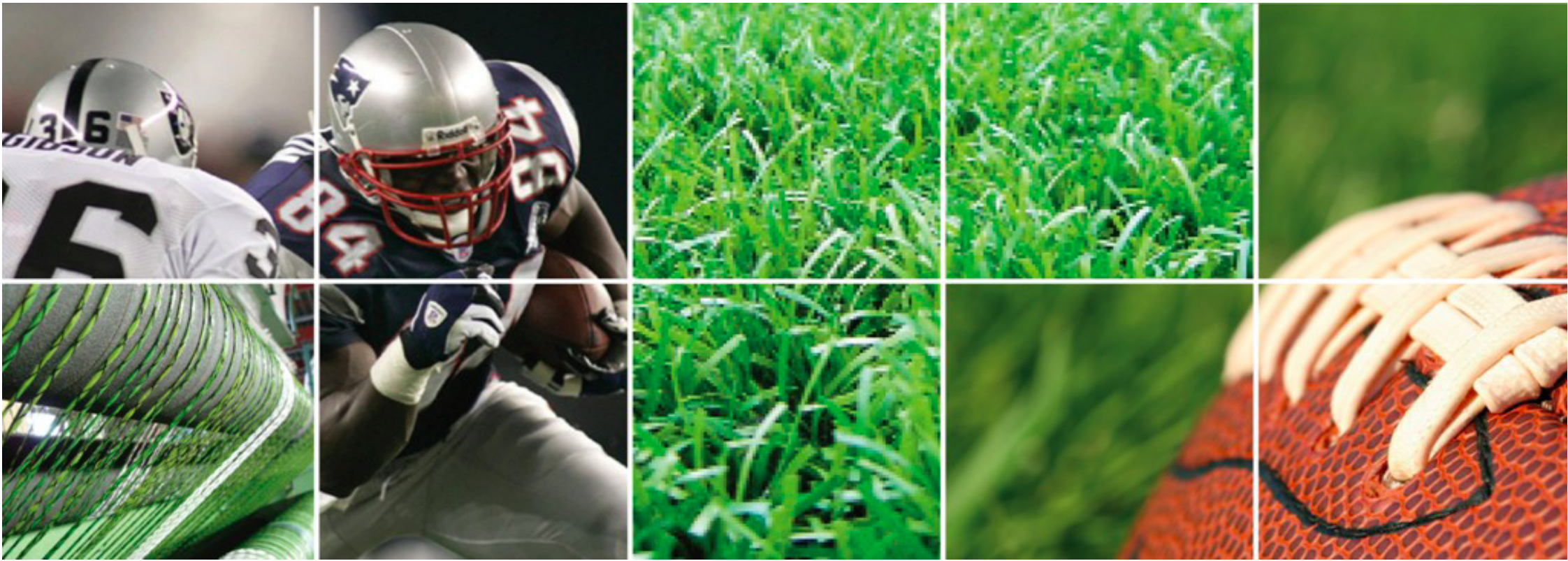
**FIFA Preferred Producer**  
As a FIFA Preferred Producer for Football turf GreenFields supports the FIFA Quality Concept to achieve playing quality for all.



Pile Height, Total Thickness, Face weight, Primary & Secondary Backing Weight, and Total Weight can differ by ±10%. The stitch rate will change according to the exact specifications and can differ by ±1. Roll width can differ by ±0.8 inch. GreenFields has the right to alter each product specification in order to improve the system according to the latest standards. GreenFields is not legally liable in case of non-compliance with the above mentioned specifications.







XP+ 50

TECHNICAL DATA

Type	Either 5/8" or 1/2" tufted synthetic grass carpet, straight stitch pattern	
Pile content	100% TenCate XP+ slit-film blade yarn, U.V. resistant, 10,000/1 denier, max 100 microns	
Primary backing	Double Layer Thiobac, black, U.V. stabilized, 7.5 oz/yd²; Layer 1 - 100% PP, Layer 2 PET/PP blend	
Secondary backing	Polyurethane coating, with drainage holes, weight 20 oz/yd²	
Pile height	± 2 inch	
Total thickness	± 2 1/8 inch	
Stitch rate per inch (length)	5/8": ± 4.32 inches	1/2": ± 3.41 inches
Face weight	± 40 oz/yd²	
Weight primary backing	± 7.5 oz/yd²	
Weight secondary backing	± 20 oz/yd²	
Total weight	± 67.8 oz/yd²	
Roll width	± 182 inch	
Roll length	as required	
Tuft bind	≥ 9 lbs	
Water permeability	± 13.2 gallon/yd²/min (unfilled)	
Color Fastness	Xenon test : blue-scale>7, grey-scale>4	

COLOR

Field green. White and yellow for line marking.

INSTALLATION METHOD

Loose laid on bound or unbound sub base, with or without a shock pad, glued or sewn seams.

INFILL (RECOMMENDED)

- 1st layer : Stabilizing base layer - (80% round), size of granules 0.3-0.8mm
- 2nd layer : Performance top layer - particle size of 0.8-2.5mm
- \*Exposed fiber can be no less than 1/2 inch

PRODUCT APPLICATION

Soccer, Football, Baseball, Multi-sport



FIFA Preferred Producer

As a FIFA Preferred Producer for Football turf GreenFields supports the FIFA Quality Concept to achieve playing quality for all.

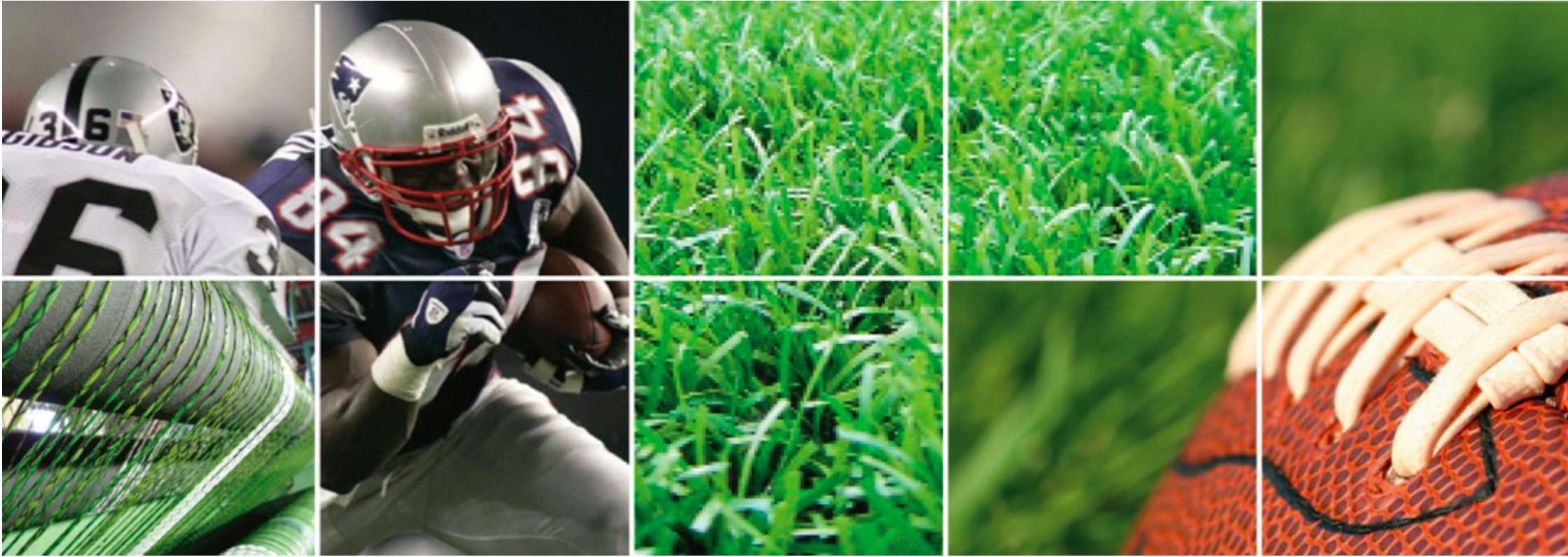
Fiber shape



Pile Height, Total Thickness, Face weight, Primary & Secondary Backing Weight, and Total Weight can differ by ±10%. The stitch rate will change according to the exact specifications and can differ by ±1. Roll width can differ by ±0.8 inch. GreenFields has the right to alter each product specification in order to improve the system according to the latest standards. GreenFields is not legally liable in case of non-compliance with the above mentioned specifications.







XP+ 60

TECHNICAL DATA

Type	Either 5/8" or 1/2" tufted synthetic grass carpet, straight stitch pattern	
Pile content	100% TenCate XP slit-film blade yarn, U.V. resistant, 10,000/1 denier, max 100 microns	
Primary backing	Double Layer Thiobac, black, U.V. stabilized, 7.5 oz/yd²; Layer 1 - 100% PP, Layer 2 PET/PP blend	
Secondary backing	Polyurethane coating, with drainage holes, weight 20 oz/yd²	
Pile height	± 2¾ inch	
Total thickness	± 2½ inch	
Stitch rate per inch (length)	5/8": ± 3.48 inches	1/2": ± 2.75 inches
Face weight	± 38 oz/yd²	
Weight primary backing	± 7.5 oz/yd²	
Weight secondary backing	± 20 oz/yd²	
Total weight	± 65.8 oz/yd²	
Roll width	± 182 inch	
Roll length	as required	
Tuft bind	≥ 9 lbs	
Water permeability	± 13.2 gallon/yd²/min (unfilled)	
Color Fastness	Xenon test : blue-scale>7, grey-scale>4	

COLOR

Field green. White and yellow for line marking.

INSTALLATION METHOD

Loose laid on bound or unbound sub base, with or without a shock pad, glued or sewn seams.

INFILL (RECOMMENDED)

1st layer : Stabilizing base layer - (80% round), size of granules 0.3-0.8mm  
2nd layer : Performance top layer - particle size of 0.8-2.5mm  
\*Exposed fiber can be no less than 1/2 inch.

PRODUCT APPLICATION

Soccer, Football, Baseball, Multi-sport

Fiber shape



Pile Height, Total Thickness, Face weight, Primary & Secondary Backing Weight, and Total Weight can differ by ±10%. The stitch rate will change according to the exact specifications and can differ by ±1. Roll width can differ by ±0.8 inch.  
GreenFields has the right to alter each product specification in order to improve the system according to the latest standards. GreenFields is not legally liable in case of non-compliance with the above mentioned specifications.







XPnf

TECHNICAL DATA

Type	3/16" tufted non-filled synthetic grass carpet, straight stitch pattern
Pile content	100% TenCate XP slit film yarn, U.V. resistant, 8,000/1 denier, max 100 microns combined with polyethylene monofilament root zone, 5,000/8 denier twisted U.V. resistant
Primary backing	Double 100% PP Thiobac, black, U.V. stabilized, weight 9.82 oz/yd <sup>2</sup> , 6pic action backing
Secondary backing	Polyurethane coating, with drainage holes, weight 20 oz/yd <sup>2</sup>
Pile height	± 1 inch
Total thickness	± 1 <sup>1</sup> / <sub>8</sub> inch
Stitch rate per inch (length)	± 6.31 inches
Face weight	± 68.0 oz/yd <sup>2</sup>
Weight primary backing	± 9.82 oz/yd <sup>2</sup>
Weight secondary backing	± 20 oz/yd <sup>2</sup>
Total weight	± 97.82 oz/yd <sup>2</sup>
Roll width	± 182 inch
Roll length	as required, maximum 130 ft
Tuft bind	≥ 9 lbs
Water permeability	± 13.2 gallon/yd <sup>2</sup> /min (unfilled)
Color Fastness	Xenon test : blue-scale>7, grey-scale>4

COLOR

Field green. White and yellow for line marking.

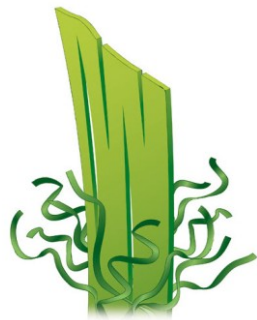
INSTALLATION METHOD

Loose laid on bound or unbound sub base, with or without a shock pad, glued seams.

PRODUCT APPLICATION

Soccer, Multi sports

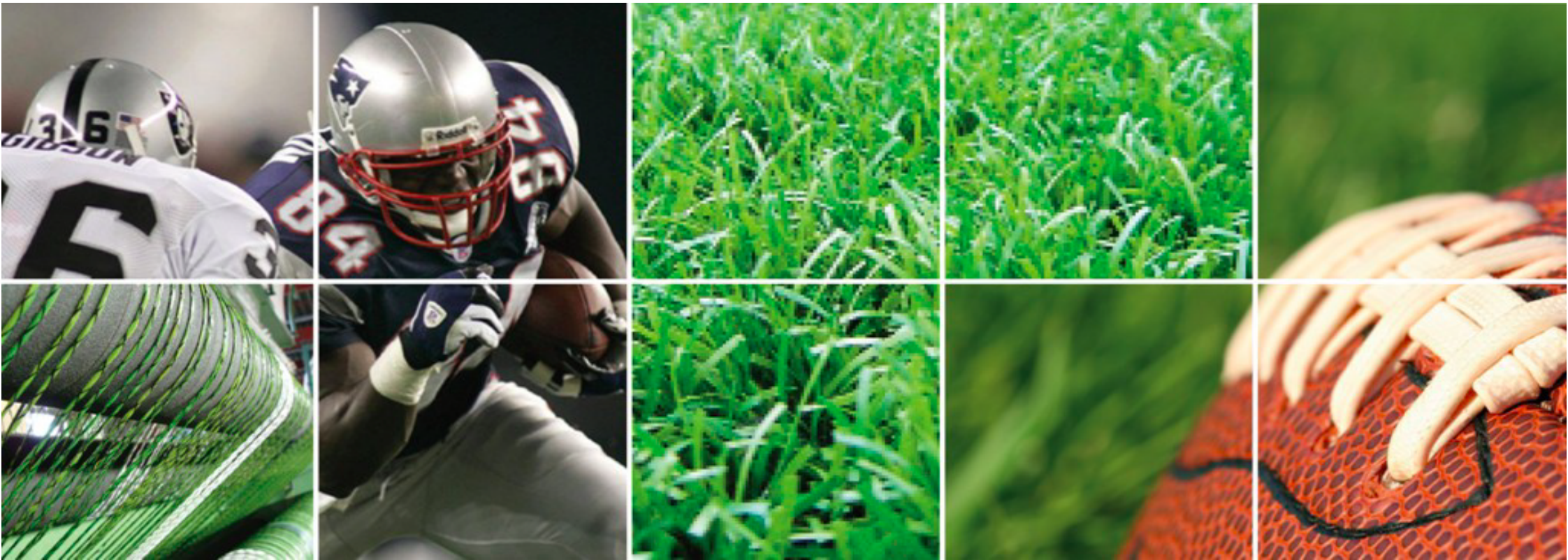
Fiber shape



Pile Height, Total Thickness, Face weight, Primary & Secondary Backing Weight, and Total Weight can differ by ±10%. The stitch rate will change according to the exact specifications and can differ by ±1. Roll width can differ by ±0.8 inch. GreenFields has the right to alter each product specification in order to improve the system according to the latest standards. GreenFields is not legally liable in case of non-compliance with the above mentioned specifications.







# POWERSPORT DIAMOND

## TECHNICAL DATA

Type	Woven synthetic grass carpet, with special patented matrix stitch pattern.
Pile content	UV resistant XWRD Extreme monofilaments - Each matrix group is built with a total of 96000 denier (8 bundles of 12000/6 MS XWR Diamond at 365-micron width)
Primary backing	Woven with a unique blend of U.V. stable PP and PE fibers; 17.9 oz/yd <sup>2</sup>
Secondary backing	Polyurethane coating with drainage holes or permeable acrylic coating, weight 16.0 oz/yd <sup>2</sup>
Pile height	± 2 inch
Pile weight*	± 57.0 oz/yd <sup>2</sup>
Weight primary backing	± 17.9 oz/yd <sup>2</sup>
Weight secondary backing	± 16.0 oz/yd <sup>2</sup>
Total weight	± 90.9 oz/yd <sup>2</sup>
Roll width	± 157 inch
Roll length	as required
Tuft bind	≥ 14 lbs
Water permeability	≥ 13.2 gal/yd <sup>2</sup> /min
Colour fastness	Xenon test : blue-scale>7, grey-scale>4

## COLOUR

Field Green/Olive and Field Green/Lime.

## INSTALLATION METHOD

Loose laid on bound or unbound sub base, with a shock pad, or on the TenCate Ecocept System, with glued or sewn seams.

## INFILL (RECOMMENDED)

- 1st layer : Stabilizing base layer - (80% round), size of granules 0.3-0.8mm  
2nd layer : Performance top layer - particle size of 0.8-2.5mm  
\*Exposed fiber can be no less than 1/2 inch.

## PRODUCT APPLICATION

Football, Soccer, Baseball, Multi-functional



### FIFA Preferred Producer

As a FIFA Preferred Producer for Football turf GreenFields supports the FIFA Quality Concept to achieve playing quality for all.



Pile Height, Total Thickness, Face weight, Primary & Secondary Backing Weight, and Total Weight can differ by ±10%. The stitch rate will change according to the exact specifications and can differ by ±1. Roll width can differ by ±0.8 inch.  
GreenFields has the right to alter each product specification in order to improve the system according to the latest standards. GreenFields is not legally liable in case of non-compliance with the above mentioned specifications.  
\*Face weight reflects entire length of yarn, including portion woven into backing, which is consistent with standard ASTM method of measuring tuft including back stitch.







# POWERSPORT ULTRA

## TECHNICAL DATA

Type	Woven synthetic grass carpet, with special patented matrix stitch pattern.
Pile content	UV resistant XWRD Extreme monofilaments blended with XP Extreme - Each matrix group is built with a total of 96000 denier (8 bundles of 12000/6 MS XWR Diamond at 365-micron width with 4 each 12050/1 XP Extreme tapes (36 fibrils))
Primary backing	Woven with a unique blend of U.V. stable PP and PE fibers; 17.9 oz/yd <sup>2</sup>
Secondary backing	Polyurethane coating with drainage holes or permeable acrylic coating, weight 16.0 oz/yd <sup>2</sup>
Pile height	± 2 inch
Pile weight*	± 57.0 oz/yd <sup>2</sup>
Weight primary backing	± 17.9 oz/yd <sup>2</sup>
Weight secondary backing	± 16.0 oz/yd <sup>2</sup>
Total weight	± 90.9 oz/yd <sup>2</sup>
Roll width	± 157 inch
Roll length	as required
Tuft bind	≥ 14 lbs
Water permeability	≥ 13.2 gal/yd <sup>2</sup> /min
Colour fastness	Xenon test : blue-scale>7, grey-scale>4

## COLOUR

Field Green/Olive and Field Green/Lime.

## INSTALLATION METHOD

Loose laid on bound or unbound sub base, with a shock pad, or on the TenCate Ecocept System, with glued or sewn seams.

## INFILL (RECOMMENDED)

- 1st layer : Stabilizing base layer - (80% round), size of granules 0.3-0.8mm
  - 2nd layer : Performance top layer - particle size of 0.8-2.5mm
- \*Exposed fiber can be no less than 1/2 inch.

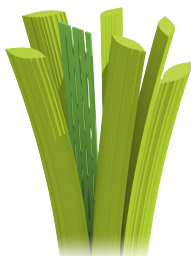
## PRODUCT APPLICATION

Football, Soccer, Baseball, Multi-functional



### FIFA Preferred Producer

As a FIFA Preferred Producer for Football turf GreenFields supports the FIFA Quality Concept to achieve playing quality for all.



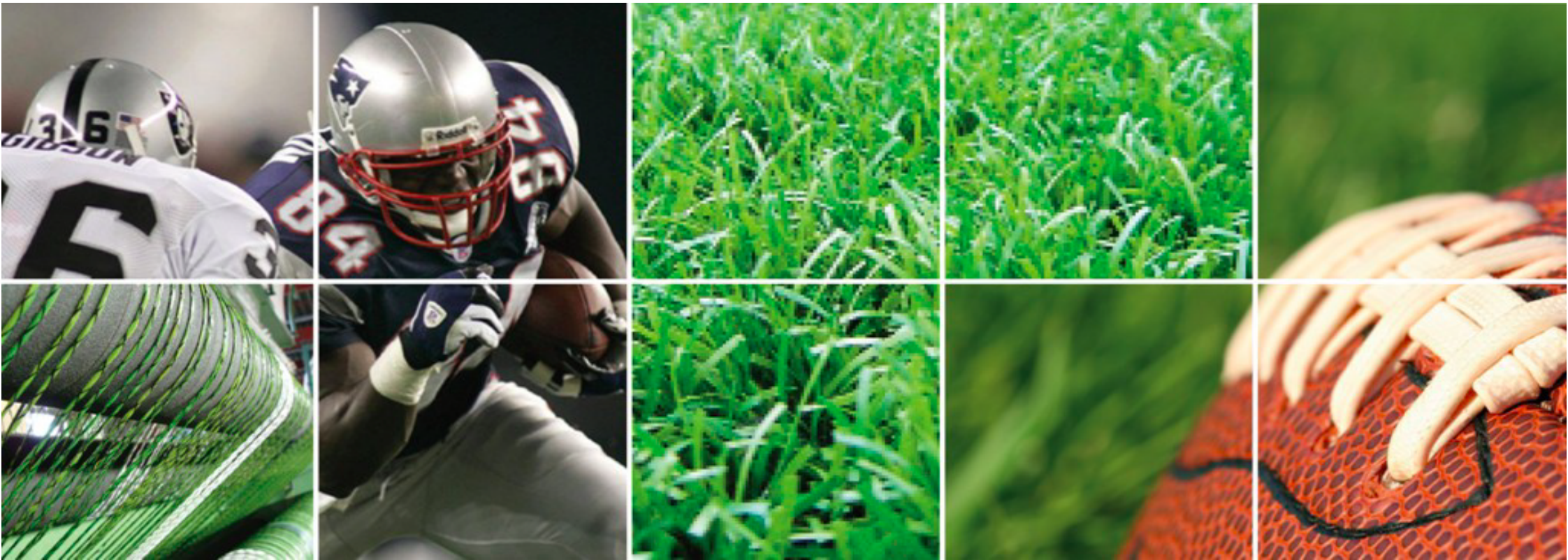
Pile Height, Total Thickness, Face weight, Primary & Secondary Backing Weight, and Total Weight can differ by ±10%. The stitch rate will change according to the exact specifications and can differ by ±1. Roll width can differ by ±0.8 inch.

GreenFields has the right to alter each product specification in order to improve the system according to the latest standards. GreenFields is not legally liable in case of non-compliance with the above mentioned specifications.

\*Face weight reflects entire length of yarn, including portion woven into backing, which is consistent with standard ASTM method of measuring tuft including back stitch.







# POWERSPORT XP

## TECHNICAL DATA

Type	Woven synthetic grass carpet, with special patented matrix stitch pattern.
Pile content	UV resistant XP Extreme slit film - Each matrix group is built with a total of 96000 denier (8 bundles of 12050/1 XP Extreme tapes (72 fibrils))
Primary backing	Woven with a unique blend of U.V. stable PP and PE fibers; 17.9 oz/yd <sup>2</sup>
Secondary backing	Polyurethane coating with drainage holes or permeable acrylic coating, weight 16.0 oz/yd <sup>2</sup>
Pile height	± 2 inch
Pile weight*	± 57.0 oz/yd <sup>2</sup>
Weight primary backing	± 17.9 oz/yd <sup>2</sup>
Weight secondary backing	± 16.0 oz/yd <sup>2</sup>
Total weight	± 90.9 oz/yd <sup>2</sup>
Roll width	± 157 inch
Roll length	as required
Tuft bind	≥ 14 lbs
Water permeability	≥ 13.2 gal/yd <sup>2</sup> /min
Colour fastness	Xenon test : blue-scale>7, grey-scale>4

## COLOUR

Field Green/Olive and Field Green/Lime.

## INSTALLATION METHOD

Loose laid on bound or unbound sub base, with a shock pad, or on the TenCate Ecocept System, with glued or sewn seams.

## INFILL (RECOMMENDED)

- 1st layer : Stabilizing base layer - (80% round), size of granules 0.3-0.8mm  
2nd layer : Performance top layer - particle size of 0.8-2.5mm  
\*Exposed fiber can be no less than 1/2 inch.

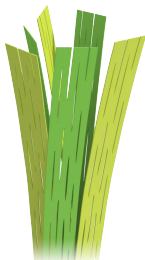
## PRODUCT APPLICATION

Football, Soccer, Baseball, Multi-functional



### FIFA Preferred Producer

As a FIFA Preferred Producer for Football turf GreenFields supports the FIFA Quality Concept to achieve playing quality for all.



Pile Height, Total Thickness, Face weight, Primary & Secondary Backing Weight, and Total Weight can differ by ±10%. The stitch rate will change according to the exact specifications and can differ by ±1. Roll width can differ by ±0.8 inch.  
GreenFields has the right to alter each product specification in order to improve the system according to the latest standards. GreenFields is not legally liable in case of non-compliance with the above mentioned specifications.  
\*Face weight reflects entire length of yarn, including portion woven into backing, which is consistent with standard ASTM method of measuring tuft including back stitch.





# **GreenFields**

## **HIGH PERFORMANCE TURF**

**United States Reference List (2014-2016)**

**Advanced Placement Sports**

Massachusetts

XP

30,691

**Ascend Middle School**

Slide Max XP

14,000

**Aspen Country Day School**

Colorado

XP

9,750

**Aspen Ridge Prep School**

Colorado

XP

10,605

**Atlas Preparatory School**

Colorado

Slide Max XP

82,053

**Aurora Sports Park Expansion**

Slide Max XP

320,010

**Balconi sports training**

Ohio

XP

7,980

**Bentley College**

Massachusetts

Evolution XP

91,758

**Bentley College pitch Hockey**

Massachusetts

Evolution XP

78,323

**Best Fitness, Inc,**

New Hampshire

XP

5,838

**Bridgton Academy**

Maine

XP

136,755

**Broomfield County Commons Park**

Colorado

GreenFields MX

114187

**Broompitch County Commons Park**

Colorado

GreenFields MX

114,186

**Bruce Randolph High School**

Slide Max XP

79,169

**Burnet ISD Football Stadium**

Texas

Slide Max XQ

88,159

**CASL - Auxiliary pitch**

Slide Max XP

16,723

180,006

**CASL - MX Add on pitch 4**

GreenFields MX

8,361

89,999

**Central Catholic High School**

Massachusetts

Evolution XP

99,240

**Challenge to Excellence School**

Colorado

Slide Max XP

23,001

**Cheyenne Mountain Academy  
Charter School- The Vanguard Sch...**

Colorado

Slide Max XP

105,303

**Coastal Carolina Softball**

South Carolina

GreenFields MX

11,000

**Colorado Springs Soccer Haus**

Colorado

XP

34,125

**Community softball Pitch Naval  
Base Guam**

FT Slide pro

81,375

**Copley YMCA**

Slide Max XP

16,491

**Crown Point**

Slide Max XP

104,003

**Crowne Point Academy Charter**

XP

22,280

**Deane Elementary School**

Colorado

XP

9,900

**Denver Christian HS\_Baseball Field**

Colorado

XP

148,224

**Denver Christian HS\_Baseball pitch**

Colorado

XP

114,999

**Denver Christian HS\_Football pitch**

Colorado

Evolution XP

99,999

**Denver International School**

Colorado

Slide Max XP

18,055

**Dojo Soccer**

GreenFields MX

5,787

**Douglas County Parks & Recreation-1**

Colorado

GreenFields MX

94,999

**Douglas County Parks & Recreation-2**

Colorado

GreenFields MX

96,699

**Eastern High School**

Louisiana

XP

28,501

**Edge Soccer**

XP

7,000

**Erie HS**

Colorado

Slide Max XP

104,037

**Escuela de Guadalupe**

Colorado

XP

7,102

**Everly Montgomery pitch**

Colorado

Slide Max XP

104,028

**Fairpitch Ludlowe High School**

Connecticut

XP

112,384

**FC Boulder Indoor**

Colorado

XP

14,106

**FC Peoria**

XP

25,681

**Fitzpatrick Stadium**

Maine

Evolution XP

86,698

**Forest Park Indoor Soccer**

XP

5,548

**Harmony Euless**

Slide Max XP

16,201

**FORO pitch - Preston Sports Center**

Texas

XP

79,323

**Homestead High School**

Illinois

Slide Max XP

49,602

**Fountain Fort Carson School  
District #8**

Slide Max XP

276,343

**Ice Ranch at Boulder Valley**

XP

28,801

**Gallagher Residence**

Texas

XP

12,975

**Ignacio High School**

Colorado

Slide Max XQ

100,803

**Golden Goal Sports Complex**

Colorado

XP

13,000

**Ignacio HS Baseball**

Colorado

XP

114,319

**Grantham Indoor**

New Hampshire

XP

18,901

**Independence School District**

Iowa

XP

10,000

**Harmony Baseball**

Oregon

XP

25,000

**Jack O'Brien Stadium**

Connecticut

XP

116,482



**Jefferson Academy Charter School**

Colorado  
Slide Max XP  
79,273

**John Adams Elementary School**

Slide Max XP  
7,509

**John Curtis Lower School**

Louisiana  
XP  
53,602

**Kent Denver School**

Colorado  
Evolution XP  
95,002

**Kenton & Tollgate Elementary  
Synthetic pitch Replacement**

Colorado  
Slide Max XP  
23,113

**Lanierland Park**

XP  
329,211

**Llano ISD football Stadium pitch**

Texas  
Slide Max XQ  
77,786

**LLBP**

Louisiana  
XP  
6,390

**Los Prados Park**

XP  
37,907

**Los Prados Park**

Slide Max XQ  
184,343

**Lotus School for Excellence**

Colorado  
XP  
57,499

**Lubbock Arena**

Texas  
Slide Max XP  
14,760

**Lumberton ISD**

Slide Max XP  
99,561

**Lutheran HS - Phase One**

Colorado  
Slide Max XP  
107,074

**Mar Island Soccer**

Slide Max XP  
21,421

**Marshal HS**

Evolution XQ  
75,242

**Maypitch Sports Complex**

Slide Max XP  
157,005

**Mequon High School**

Slide Max XP  
87,323

**Mequon High School**

XP  
87,323

**Millikin University**

Illinois  
Slide Max XP  
100,803

**Milwaukee Kickers**

Wisconsin  
Slide Max XQ  
93,475

**Mount Zion High School**

Illinois  
Slide Max XP  
119,476

**MPS South Stadium**

XP  
98,846

**Nassau County**

New York  
Slide Max XQ  
90,028

**Neucamp Soccer Center (1)**

Texas  
XP  
29,152

**Neucamp Soccer Center (2)**

Texas  
XP  
18,279

**New England Baseball**

Massachusetts  
XP  
382,964

**NH Sportsplex**

New Hampshire  
XP  
62,924

**North Shore Indoor Sports**

New York  
XP  
22,001

**Northpitch High School**

Colorado  
Slide Max XQ  
88,283

**Ogden City School District**

Utah

Slide Max XQ

202,651

**Ogden Landscape Turf**

Utah

Slide Max XQ

7,431

**Old Saybrook High School**

Connecticut

XP

121,392

**Parker Elementary**

Slide Max XQ

16,000

**Phillip S Miller Park**

Colorado

Slide Max XQ

86,763

**Phillip S, Miller Park Phase 2**

Colorado

XP

35,001

**Pingree School**

Massachusetts

XP

10,438

**Plainview Public Schools**

Oklahoma

Slide Max XQ

91,921

**Ponderosa High School**

Colorado

Slide Max XQ

102,028

**REAL Salt Lake- Carnival Area  
Landscape**

50,150

**Red Hawk Ridge Elementary**

Slide Max XP

27,600

**REVO Soccer**

Slide Max XP

14,077

**Rio Bravo Park**

Texas

Slide Max XQ

11,200

**Rock Canyon High School**

Colorado

Slide Max XQ

100,103

**Ronaldo Academy**

Florida

Slide Max XP

49,500

**RSU 57**

Maine

Evolution XQ

92,309

**Shawsheen Valley Regional  
Vocational Tech-**

Massachusetts

Slide Max XP

214,770

**Shwayder Camp pitch**

Colorado

Slide Max XQ

16,424

**SkyView Academy**

Colorado

Slide Max XP

31,912

**Soil Retention Driveable Grass**

California

Slide Max

9,900

**South Windsor Board of Education**

Connecticut

Slide Max XP

87,622

**Sport Port (Soccerland Harbor)**

GreenFields TX

70,722

**St Julien Park**

Louisiana

GreenFields MX

99,999

**St, Julien Park**

Louisiana

XP

652,530

**St, Mary's Academy High School**

Colorado

Slide Max XP

94,403

**St, Thomas More**

North Carolina

Evolution XP

5,400

**Swope Park**

Missouri

Slide Max XP

602,159

**Syracuse University**

New York

GreenFields TX

79,999

**The Classical Academy - Baseball /  
Softball**

Colorado

XP

120,003

**The Plex**

XP

23,755

**Toby Wells Indoor**

Slide Max XP

18,001

**Town of South Hadley**

Massachusetts

Slide Max XP

99,999

**Town of Superior Synthetic Turf Replacement**

Colorado

XP

73,418

**Town of Wellesley**

Massachusetts

Slide Max XP

87,711

**Tres Reyes**

XP

7,125

**Twin Peaks Charter Academy**

Colorado

Slide Max XP

6,417

**Twin Peaks Charter Academy-Soccer pitch**

Colorado

Slide Max XP

107,324

**Twin Peaks Charter Academy-Stadium pitch**

Colorado

Slide Max XP

81,756

**UNC Chapel Hill-Hooker pitch**

North Carolina

GreenFields MX

179,999

**University of Colorado-Colorado Springs Recreation pitch**

Colorado

Slide Max XQ

86,978

**US Lacrosse Center**

GreenFields MX

102,965

**US Lacrosse Indoor 1**

XP

8,100

**US Lacrosse Indoor 2**

XP

14,400



**UYSA Practice pitch**

XP

15,001

**Villa Duschense**

GreenFields TX

69,302

**Wauwatosa W, High School**

XP

109,369

**Wheel Park-Box Lacrosse Synthetic pitch**

Colorado

Slide Max XP

16,729

**Whitefish Bay School District**

Milwaukee

XP

67,034

**Williamsburg Indoor Sport Complex**

Virginia

XP

14,400

**Winston Salem Soccer Plex Phase II**

North Carolina

XP

25,001

**Winston Salem SoccerPlex**

North Carolina

XP

10,000



# Maintenance Manual



**GreenFields**  
HIGH PERFORMANCE TURF





# Introduction

The GreenFields® synthetic sports system consists of specifically manufactured artificial turf and can include specified levels of infill sand and/or rubber granules. The combination of high quality turf and infill with the correct installation procedure will provide a safe, comfortable and durable playing facility. A properly maintained field will perform similar to, or better than, that of a natural grass surface. GreenFields' main goal within this manual is to ensure the field is always at its optimum playing condition by providing you with the correct information and training.

GreenFields strives to provide the highest performance of our turf system from initial construction through weekly use and far into the future years. It is therefore essential that GreenFields provide detailed instructions for the use and maintenance of the system in order to guarantee our products performance.

Contact your GreenFields representative if you would like information or a consultation on a continued maintenance and service plan through GreenFields or one of our strategic partners.

## CONTENTS

### 1 Ensuring the field meets optimum performance

- 1.1 Synthetic Turf and Infill Pollutants
- 1.2 Synthetic Turf System Damage

### 2 Guideline for users and spectators

- 2.1 Normal Athletics
- 2.2 Field Watering
- 2.3 Special Events

### 3 Maintenance Guideline

- 3.1 Daily maintenance
- 3.2 Weekly maintenance
- 3.3 Monthly maintenance
- 3.4 Annual maintenance
- 3.5 Occasional maintenance

### 4 Summary

- Prohibited Activities
- Key Points to Remember

Please distribute this manual to the persons responsible for the day-to-day maintenance of the field and ensure that they are thoroughly familiar with its contents. You should also review the warranty document provided after installation completion and familiarize yourself with the specific prohibitions and limitations contained therein.

# 1 Ensuring Optimal Field Performance

In order to preserve the playability of the GreenFields system, filled and not filled, it is essential that the following are considered and subsequently avoided.

## 1.1 Synthetic Turf and Infill Pollutants

Improper cleaning of the field, and more importantly, poor cleaning of the sand and rubber infill material can create a negative effect on the field's playability. Failure to follow proper cleaning guidelines can add to an over compaction process within the infill of the turf system. This compaction can cause a hardening of the surface, which can create poor water permeability, inferior ball behavior, poor grip for the player's footwear and possibly damage to the fibers or result in fiber loss.

Possible pollutants:

- Airborne particles from natural rainfall or water sprinkler systems
- Imported foreign bodies as a result of high winds
- Plant and flower debris from seasonal climate change
- Animal waste
- Soil or debris transported onto the field through shoes or tires.
- Ingredients in food and drinks including acids or sugars could influence the composition of the fibers or the quality of the infill
- Food packaging, drinks, or general litter
- Chewing gum can become entangled in the fiber or infill
- Natural wear and tear of the fiber creating residue
- Leakage of oil, fuel, or grease from mechanical maintenance equipment
- Neglecting the maintenance schedule could allow for the growth of weeds, algae and/or moss

## 1.2 Synthetic Turf and Infill Damage

Damage to the system could also influence the playability characteristics and the ball behavior of the GreenFields system.

Damage to the field could be caused by the following:

- Unsuitable maintenance machinery, or any equipment with inappropriate tires used on the playing surface
- Damage caused by cigarettes or fireworks can

change the specific markings/characteristics of the fiber and infill materials

- Ingredients in food or drinks including acid or sugars could influence the composition of the fibers or could influence the quality of the infill

GreenFields recommends that warning signs are attached at each entrance to the field, an example of which is given below.

## PLEASE OBSERVE

To Ensure GreenFields Performance, Durability & Safety the Following is Prohibited:



**Metal spiked shoes**



**Food, Sunflower seeds & Glass**



**Chewing gum**



**Smoking and fire**



**Animals**



**Vehicles**



**GreenFields**  
HIGH PERFORMANCE TURF

For more info call us at: 855.773.6668  
[www.greenfieldsusa.com](http://www.greenfieldsusa.com)



## 2 GUIDELINES FOR USERS AND SPECTATORS

The next paragraph will explain aspects which could affect the playability characteristics of the GreenFields artificial field, but cannot be prevented by making the user disciplined. Maintenance is a requirement irrespective of the level of usage. Even if that is infrequent use, the maintenance needs to be done in accordance with this manual.

### 2.1 Normal Athletics

As the owner/manager you can contribute to keeping the field in an optimum playing condition, discipline being the key word. By maintaining the following 'rules' you can contribute in preventing the possible damaging effects previously mentioned.

- Avoid unnecessary vehicle traffic
- The field should be used for the specific use to which it was designed
- Do not allow the use of inappropriate footwear
- Prohibit any use of open flame, fireworks or welding etc.
- Ensure the correct disposal of general waste
- Direct traffic routes across the field in such a way as to minimize pollutants being transported onto the field
- Refreshments should not be distributed and consumed on the main field
- Do not allow smoking on the field
- Do not allow animals/pets on to the field
- Clearly display rules of field use at each entrance to the field
- Fireworks are prohibited, it will cause damage to the fibers and infill

### 2.2 Field Watering

In many instances coaches and players prefer to water the field prior to use in order to lower the surface temperature. This action is recommended by GreenFields as in periods of very hot weather, a wet field provides evaporation, which lowers the temperature of the playing surface. Ideally the temperature of a wet synthetic field should be equal to that of a natural grass field.

Users should remember that evaporation can be very rapid, typically it can be more than 2200 gallons of water per hour on an average size field. Therefore, with sustained periods of use additional watering of the field

may be required. If you decide to water the field, distribute the water evenly over the playing area, the aim being to dampen the surface not soak or saturate it. The water used should be free of pollutants so as not to potentially damage the quality of the field and infill products.

The ideal time to water the field would be 1-2 hours prior to the start of the playing period.

### 2.3 Special Events

GreenFields synthetic surfaces are designed to be multi-purpose, and as such, often become host to numerous non-athletic events such as; assemblies, exhibitions, and concerts. Generally, there are two areas of concern that need to be recognized:

- Such events can create weight loadings on the field that exceed the surface load limit set forth in the Warranty and in the load limits outlined in this Manual
- Large crowds or personnel on the field generally fall outside the "designated uses" for the system and damage of the system can occur unless it is fully protected
- In the case of all non-designated uses of the system, you should be aware that damage to the field is not covered by the GreenFields warranty.
- In the case of such special events the following rules should be adhered to:

No static, transient, or dynamic load of more than 15 Psi should be allowed on the field. (See the layman's guide to typical PSI pressures). It is therefore good practice to eliminate any unnecessary long-term parking and loading and to keep necessary traffic on the field as minimal as possible. Sheets of ¾" thick ply-wood typically 4' x 8' in size, exterior grade, are ideal and recommended to assist spreading the loads. It is also recommended to cover the field with white plastic sheeting prior to placing the plywood to keep the field clean, some kinds of plywood contain pollutants that can effect and discolor the field surface, if in doubt please seek advice from your local GreenFields office

- Prohibit smoking on the field
- Prohibit events that involve flames, excessive heat and fireworks
- Ensure the field undergoes a full maintenance program following the event to return it to its original playing condition



# 3 MAINTENANCE GUIDELINES

A strict maintenance schedule is essential in providing longevity to your sports field and also ensuring compliance under the GreenFields warranty terms and conditions.

Maintenance is a requirement irrespective of the level of usage, even if there is infrequent use in accordance with this manual.

The maintenance schedule of the GreenFields artificial sports field has been divided into 5 sections as described below:

1. Daily maintenance
2. Weekly maintenance
3. Monthly maintenance
4. Annual maintenance
5. Occasional maintenance as and when required

## 3.1 Daily Maintenance

Daily maintenance is focused on the security of the users and consists of the following:

### 3.1.1. Visual inspection

- Goals and nets: Visually inspect all nets and goal posts for damage, repair as required, pay particular attention that no sharp edges are protruding from the goal post structures
- Net holders: Stretch the nets using the net tension ties before the game begins. Take care that after the game the tension is released from the nets
- Corner flags: Visually inspect the corner posts for breaks or damaged anchorage points
- Artificial turf: Generally inspect the field checking for any damage to the grass, joints or infill and report (your findings) any faults immediately to your local GreenFields® office.

## MAINTENANCE SCHEDULE

Type of Activity	Daily	Weekly	Monthly	Annually	Occasionally
General inspection	chapter 3.1.1				
General housekeeping	chapter 3.1.2				
Surface cleaning		chapter 3.2.1			
Cleaning of the drainage system					chapter 3.5.1
Removal of stains (if spotted)					chapter 3.5.2
Removal of snow (if spotted)					chapter 3.5.6
Repairs (if spotted)					chapter 3.5.8
Re-level infill		chapter 3.2.2			
Removal of weeds, algae, & moss			chapter 3.3.1		
Inspection of seams			chapter 3.3.4		
Testing performance			chapter 4		
Specialized cleaning maintenance				chapter 3.4	



As well as the above mentioned inspection, daily maintenance should consist of the following:

### 3.1.2. Housecleaning

- Maintenance is best performed on a DRY FIELD
- The field should be cleaned of litter such as cans, bottles, plastic bags etc.

## 3.2 Weekly Maintenance

The weekly maintenance inspection needs to focus on the condition of the grass but in particular the infill material, care should be taken to inspect for possible pollution or vegetation growth, this is particularly relevant in geographical areas of heavy rainfall and where daily inspection may not always be possible.

### 3.2.1. Surface cleaning

If during your weekly inspection or indeed at any other stage, leaves, twigs or any other foliage is found to be present the field should be cleaned using the correct machinery i.e. a leaf blower or collected by hand. Further advice on the correct type of machinery can be provided by your local GreenFields office.

### 3.2.2. Re-level infill

In respect of the infill quality you should be aware that higher traffic and usage areas of the field will require particular attention. As these areas are generally small it is advisable to check them manually and at close hand, as required the following action should be adopted:

- In and around the area requiring attention and by the use of a gardening rake or medium strength sweeping brush, scrape/brush the area until the fiber returns to its vertical position
- If new infill material is required add with the use of a shovel spread the new infill over the required area
- Work the infill into the required area, this can be done by hand or gently by the use of a medium strength sweeping brush

Every 4-6 weeks the field should be brushed using a triangular brush or groomer towed behind a lawn tractor as advised by GreenFields. It is important that the field is brushed in varying directions to return the fibers to a vertical position thus providing an aesthetically natural grass look. During this brushing phase particular attention should be paid to the following:

- The speed of the tractor should be gradually built up to a maximum speed of 9 mph
- Always reduce the speed slowly and without use of the brakes
- Always turn the tractor in wide loops
- Ensure that the speed is reduced during gentle turning
- Where possible avoid turning on the seams (yard lines, hash marks, numbers, inlaid lines)
- Ensure the triangular brush is flat and level to avoid uneven brushing or even potential damage to the surface
- If it is found that the infill has not been revitalized you may consider placing small weights, typically two 50lbs weights maximum on the brush to increase penetration
- Refueling of the machinery should always be carried out a safe distance from the field (gasoline, diesel fuel, motor oil will instantly damage the field)

Following brushing it is advisable to utilize a groomer. This particular piece of equipment can provide further leveling of the infill material, it is designed specifically to remove high areas of infill and release the removed material into the areas of low infill. If it is continually found that no rubber is collected in the net you are advised to closely inspect the infill for compaction, and either brush again with the triangular brush with weights described above or seek further advice from your local GreenFields office. If perimeter surface drains are in use brushing or dragging of the above equipment close to the drains should be avoided so as to ensure infill does not enter



the drainage system. For reference, a full size field should take approximately 2-3 hours to complete.

If the weather is warm and dry it might be found that the infill material looks high in the fiber, this is due to static being created within the infill material due to the heat. This does not affect the playability of the field. However it may affect the visual impact of the field, it is therefore advised to brush the field further with a spare piece of synthetic grass turned upside down with a light weight on top of it and towed behind the tractor to remove static.

For daily and weekly maintenance the following tools are recommended:

- A wheelbarrow to transport the infill material
- A flat, large shovel to replace and spread the infill material
- A medium sweeping brush to manually brush the fiber
- A metal rake to remove leaves, foliage and return the fibers to their vertical position
- Ice cubes to freeze chewing gum residue

For weekly and monthly maintenance the following machines are recommended:

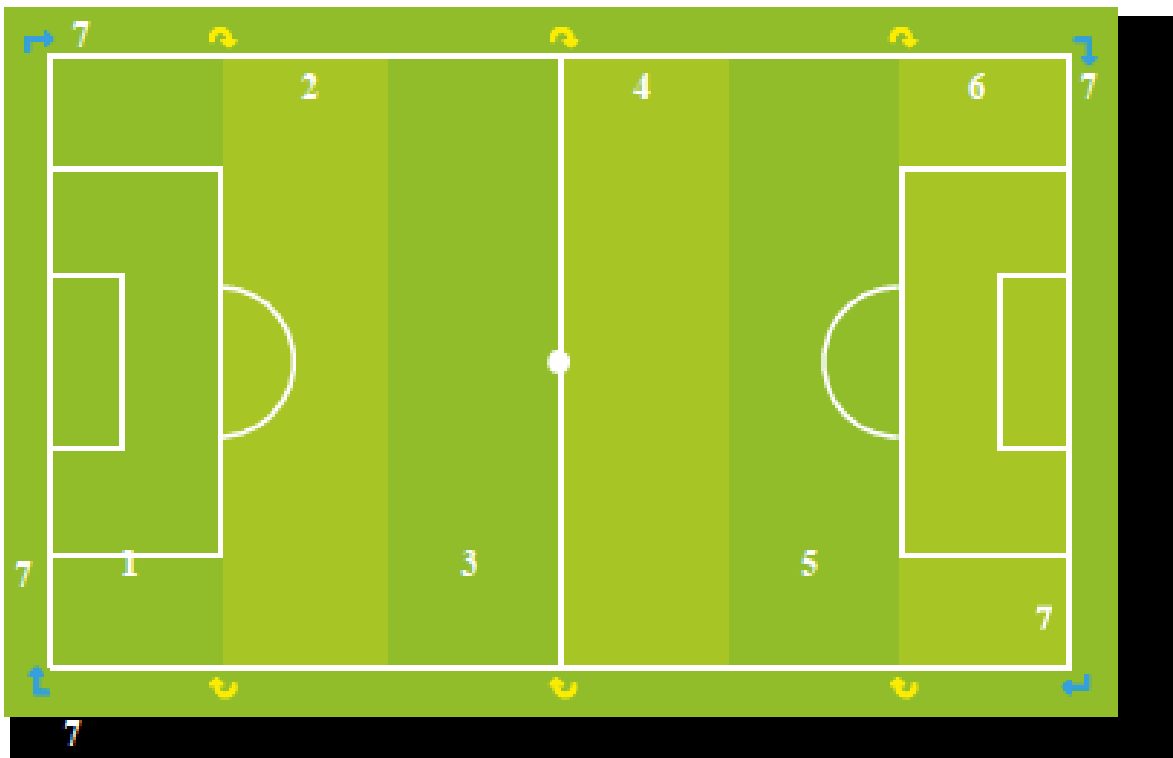
- A lawn tractor or ATV on load spreading low tread profile tires
- A triangular brush or sweeper with medium brushes as recommended by GreenFields

- A groomer as recommended by GreenFields (monthly)
- A piece of artificial grass 6ft x 6ft in size with a draw-beam
- A powered leaf blower or drag mat

The following drawings will show you 3 different driving programs.

### Brushing and Sweeping Program:

- Divide the field between the goal lines into 6 sections
- Brush one lane in section 1 from sideline to sideline ensuring a straight line is maintained
- Turn slowly in a wide loop outside the sideline where possible and drive to section 2 (yellow arrow)
- Clean brush after each lane
- Brush one lane in section 2 until you reach the sideline
- Turn slowly outside in a wide loop the sideline where possible and drive to section 1 again (yellow arrow)
- Repeat until whole of sections 1 and 2 have been brushed
- When sections 1 and 2 have been completed, move on to sections 3 and 4 and repeat the same process
- When sections 3 and 4 have been completed, move on to sections 5 and 6 and repeat the same process
- When sections 1 to 6 have been completed, complete the process by brushing the length of the side and goal lines (section 7, blue arrows)



### 3.3 Monthly Maintenance

#### 3.3.1 Removal of weeds, algae and moss

##### 3.3.2 By hand

If weeds, algae or moss are detected they must be removed immediately to prevent the spreading of seeds and or the creation of streaks. Therefore GreenFields recommends the following procedures:

- The recommended procedure for the removal of weeds is by hand, this ensures complete and careful removal of the weed and roots. Knives and sharp objects should not be used to avoid puncturing or damage to the field.
- If daily and weekly maintenance schedules, which include the removal of fresh foliage and sweeping of the field are adhered to the chances of algae and moss forming are drastically reduced.

##### 3.3.3. By chemicals

If there is a persistent re-occurrence of weeds, algae or moss forming then water diluted pesticides can be used on the affected areas. "Please pay special attention to the manufacturers recommendations for use". If in doubt please seek advice from your local GreenFields office.

Once the weed, algae or moss has been killed ensure that the debris is removed by hand carefully ensuring that none is left behind.

##### 3.3.4. Inspection of seams

Your field is constructed from rolls of manufactured synthetic grass, these rolls, typically 15 feet in width are sewn or glued together. While the seams cannot be seen without removing the infill they require checking monthly. Look for separation and lifting. Special attention should be paid to yarn line markings as these are usually the location for the seams during construction. Any damage found to the seams should be reported to your local maintenance contractor immediately for repair.

### 3.4. Annual Maintenance

Despite the fact that weekly and monthly maintenance will remove most pollutants it is also recognized by GreenFields that there may be a requirement to engage a specialized contractor to provide specific services outside normal maintenance procedures. Some pollutants may remain in the grass and infill material after routine maintenance and a specialized contractor will have the

required machinery to clean the field safely.

Such machines are designed to remove, sieve, clean and re-install the infill thus removing such damaging pollutants.

### 3.5 Occasional Maintenance

#### 3.5.1 Cleaning drainage system

**All synthetic fields require some form of drainage system. It is essential that the drainage systems are maintained.**

A system that contains drainage pipes running underground, may collect residue dirt that will require flushing. If access to these pipe ends is available GreenFields recommends that a pressure washer be used to clear the residue dirt.

Some fields may also have a surface drain running around the circumference of the field. This type of design may collect residue from the field. These drains should be cleaned by hand or by the use of a pressure washer.

#### 3.5.2. Removal of stains

No food or drink should be permitted on to the field however GreenFields products are constructed by the use of Polyolefin fibers which are extremely resistant to absorbing stains as they do not absorb moisture. It is therefore relatively easy to remove stains as they will not be absorbed into the fiber.

If staining occurs it should be dealt with as soon as possible and before it has chance to dry or harden. Most stains listed below can be removed by the use of hot water mixed with dish washing detergent as required. If scrubbing is required for stubborn stains the use of paper towels, a sponge or soft plastic scrubbing brush is recommended to avoid damage to the fiber. The area should be thoroughly rinsed with clean water to wash away any detergents used.



## TYPICAL WATER BORNE "STAINS"

Acid	Alcohol/Beer
Alkali	Blood
Chocolate	Coffee
Cola	Dye
Food Coloring	Fruit Juice
Latex Paint	Mustard
Tea	Ketchup
Urine	Milk

A three percent (3%) solution of ammonia in water may be used in lieu of dish-washing detergent for more stubborn residues or stains. If in doubt please seek advice from your local GreenFields office.

### 3.5.3 Persistent or Oil Based Stains

If any of the products listed below are spilled on the field the urgent assistance should be sought from your local GreenFields office.

- Crayons, furniture stain, lipstick, metal polish, cooking oil, rubber cleat marks, shoe polish, sun-tan oil, ballpoint ink
- Oil paints (Do not use for field markings)
- Nail Polish
- Paraffin Wax
- Tar or Asphalt
- Gasoline, Diesel fuel, Motor oil, Alkaline (Caustic) cleaners

### 3.5.2 2. Animal Waste

If the waste is solid you must remove the solid element then wash that area with dish-washing detergent. If the waste is liquid only simply wash the area immediately with dish-washing detergent and rinse with clean water afterwards.

### 3.5.4. Chewing Gum

Gently rub the area with ice and once the chewing gum is frozen scrape with a plastic scraper to remove.

### 3.5.5. Fungus or Mold

Generally fungus and mold develop below the surface of synthetic surfaces, if you discover these elements GreenFields recommend the following procedures be followed:

- Use a one-percent solution of hydrogen peroxide in water. Gently wipe on to the affected area and flush thoroughly with water following application
- Do not use a high-pressure washer, or steam cleaner

as this can severely damage the field

- If in doubt please contact your local GreenFields office for assistance

### 3.5.6. Removal of snow and ice

It is not advised to use a tarpaulin cover on the field during freezing weather, these can freeze to the surface through condensation and thus damage the fibers during removal.

### 3.5.7. Ice removal

GreenFields recommends extreme caution during the removal of ice as remnants can be dangerous to players and the general public.

If the use of the field is absolutely necessary it is recommended in the occurrence of ice coverage to break down the ice by means of driving a small weighted lawn roller over the field, once the ice is broken down or softened the field can be swept to remove residue. GreenFields would however recommend natural thawing of ice rather than enforced removal.

Do not use common salt, rock salt, calcium, chloride, ammonium nitrate or other corrosive or toxic chemicals to melt ice on GreenFields surfaces. Their presence can be harmful to players, mechanical equipment and possibly damage the field itself.

Use only rotary brush equipment towed by lawn tractors or ATV's for the removal of snow and ice.

Lugs, Chains, and Studs are damaging to the synthetic surface and should not be used. Do not park equipment on the field overnight or for extended periods of time.

### 3.5.8. Repairs

It is recommended that the field is inspected closely in the spring for any potential damage that may require repair. If you seek assistance to carry out such repairs from your local GreenFields office they will require as much notification as possible. As gluing of the seams and the installation of infill cannot be carried out in wet or damp weather our visit will be weather permitting.

We strongly advise that damaged areas of the field be immediately corrected no matter how small to avoid further damage. Owners should be aware that small seam repairs or cuts to the field are to be expected during the

life of the field, such failures less than 6 inches in length could be repaired by the owner to reduce financial costs, advice for such repairs are provided within this document.

### 3.5.9. Seam repairs

To repair minor seam openings or cuts GreenFields recommended the following procedures:

- Remove or vacuum the infill from the affected area
- Ensure the area to be repaired is free from loose rubber, dirt, old adhesive and any other foreign material, and is thoroughly dry
- Remove the old seaming tape from underneath the carpet seam and replace with new tape
- Leave a 1 inch area on the edge on both sides of the seam tape free of adhesive.
- Press the carpet into the adhesive evenly and ensure a smooth joint is achieved
- Weigh down the repaired area and allow it to cure for at least 24 hours (bricks or cinder blocks are best)
- Spread the sand/rubber infill on the repaired area and hand brush into the turf thoroughly until it is even with surrounding playing area
- Seam repairs should be undertaken in dry warm conditions where practically possible
- In doubt seek advice from your local GreenFields office

### 3.5.10. Field markings (paints, etc.)

Most synthetic fields require line markings of some description, some fields have lines sewn in at the time of manufacture or inlaid during installation, however if you choose to paint the required lines GreenFields recommends the following procedures:

- Only apply paint when the field or fibers are totally dry and clean from pollutants
- The recommended fiber temperature for best results is 60 F to 90 F
- Only use recommended specifically designed paint
- Remove all old line markings if possible after seeking advice from your local GreenFields office
- Artificial turf fibers will not absorb paint – use a paint designed for artificial turf fields
- Paint should be applied per the manufacturers recommendations.
- Use rubbing alcohol or water to remove the paint – artificial turf paints are water based.
- The paint should be allowed to cure for 24 hours minimum before opening the field to users
- If in doubt seek advice from your local GreenFields office

#### Recommended Paints:

Use only water based paints designed for use on artificial turf. Contact your local GreenFields office for a recommendation.



## 4 SUMMARY

With the many advances of synthetic turf plus the innovations and developments of the past years, GreenFields products require a less intensive maintenance program than ever before. However your GreenFields products will perform, look and feel better for a longer period of time if the maintenance schedule outlined in this manual is adhered to.

GreenFields relies in part on the infill system which has influence on the life and playability of the field. It is therefore critical to maintain a sufficient level of infill material that is uniformly distributed throughout the field. Special attention must be paid to high usage areas such as mid fields, goal lines and mouths, corner spots and penalty spots. You should periodically inspect these areas for infill displacement and infill thickness and carry out the required action if found to be below standard.

This manual is designed to provide guidance for the correct use and maintenance of your product, if you have any further questions please feel free to contact your local GreenFields office.

### Prohibited activities

- Storage of materials on the field
- Vehicular traffic other than lawn tractors and ATV's
- Unauthorized sports such as golf, shot putt, javelin or discus throwing or similar
- The use of inappropriate footwear
- Open flame, fireworks, welding, etc.
- The use of wire brushes
- Any load in excess of 25 PSI
- The use of any unauthorized cleaning equipment, methods or materials
- High pressure washers or water sprayers
- Vehicles with non-pneumatic tires
- The introduction of sand or infill's that vary from GreenFields specifications

### Key Points

- Control access to the field
- Keep the field clean and sweep the field as recommended within this manual
- Provide sufficient litter bins on site for public use
- Keep vehicular traffic off of the field
- Prohibit SMOKING on or around the field perimeter
- Use plywood and fabrics to protect the field if

special events are scheduled

- Carry out minor repairs as soon as possible, report major repairs or concerns to your local GreenFields office
- Follow the recommendations and procedures incorporated within this manual
- Maintain the field as described at all times, even if the field is not been used regularly

IF IN DOUBT SEEK ADVICE FROM YOUR LOCAL GreenFields OFFICE

### Definitions

Pounds Per Square Inch (PSI) Layman terms:

Definition: Pressure a gas or liquid exerts on the walls of its container. Also called PSIG for pounds per square inch gauge.

Examples:

Human male (5 tall, medium build): 8 psi

M1 Abrams tank: 15 psi

1993 Toyota 4Runner: 25 psi

Adult horse (1250 lb): 25 psi

Passenger car: 30 psi

Wheeled ATV: 2 psi

Adult elephant: 35 psi

Mountain bicycle: 40 psi

Road racing bicycle: 90 psi

Stiletto heel: 471 psi

Note: Pressures for Man and Horse are for standing still. A walking human will exert more than double his standing pressure. A galloping horse will exert up to 500 psi. The ground pressure for a pneumatic tire is roughly equal to its inflation pressure.

Weather Condition						Temp:
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Project Name:					
Date of Maintenance:					
Maintenance done by:					
Runoff area artificial turf					
Undesired material			Status	Removed	
Organic:					
		- Weed	none/ little/ a lot	yes/ no	
		- Foliage	none/ little/ a lot	yes/ no	
		- Algae	none/ little/ a lot	yes/ no	
		- Moss	none/ little/ a lot	yes/ no	
Non Organic:					
		- Litter	none/ little/ a lot	yes/ no	
		- Glass	none/ little/ a lot	yes/ no	
Playing area					
General field condition		good/ reasonable/ bad			
Measurement*	Fiber length	Infill Height			
		Sand	Rubber		
Penalty spot					
Center circle					
Corner spots					
Goal areas					
*make several measurements and note down the average					
Loose seams	yes/ no	repaired	yes/ no		
Straight lines	yes/ no	repaired	yes/ no		
Loose penalty spot(s)	yes/ no	repaired	yes/ no		
Damage of the field (e.g. burn spots)	yes/no	repaired	yes/ no		
*if yes, describe damage					
Maintenance carried out					
Brushed	yes/ no				
De-compaction	yes/ no				
Swept with steel net	yes/ no				
Surface cleaning(Sportchamp)	yes/ no				
Weed removal	yes/ no				







## Major Maintenance Checklist

Club				Address				
Contact Person				City				
Fiber length	A	B	C	D	E	F	G	H
Sand Filling	Field		Surrounds		Circle		Spots	
	OK	NOK	OK	NOK	OK	NOK	OK	NOK
			Notes/ advice					
Edge Containment	OK	NOK						
Edge boards	OK	NOK						
Flatness	OK	NOK						
Joints	OK	NOK						
Lines	OK	NOK						
Fencing	OK	NOK						
Goals	OK	NOK						
Moss	Yes	No						
Weeds	Yes	No						
Fouling	Yes	No						
General Condition	OK	NOK						
			Yes/ No	Notes/ advice				
Minor Maintenance								
Major Maintenance								
Sweeper-vacuum								
Dragged with rubber mat								
Sprayed against algae, moss, and weeds								
Other work carried out/ extra work/ supply/ notes/ advice								
Work carried out by:								
Date:								



## Why GreenFields makes the difference

-  Unique In-house Laboratory
-  High Quality Products
-  Constant Innovation
-  Turnkey Solutions



# GreenFields

**HIGH PERFORMANCE TURF**

**GreenFields USA | 1131 Broadway Street Dayton TN 37321 | 855.773.6668**



# **Non-Infilled Maintenance Manual**



**GreenFields**  
HIGH PERFORMANCE TURF



# Introduction

The GreenFields® synthetic sports system consists of specifically manufactured artificial turf. This high quality turf with the correct installation procedure will provide a safe, comfortable and durable playing facility. A properly maintained field will perform similar to, or better than, that of a natural grass surface. GreenFields' main goal within this manual is to ensure the field is always at its optimum playing condition by providing you with the correct information and training.

GreenFields strives to provide the highest performance of our turf system from initial construction through weekly use and far into the future years. It is therefore essential that GreenFields provide detailed instructions for the use and maintenance of the system in order to guarantee our products performance.

Contact your GreenFields representative if you would like information or a consultation on a continued maintenance and service plan through GreenFields or one of our strategic partners.

## CONTENTS

### 1 General

- 1.1 Footwear
- 1.2 Intended use
- 1.3 Machinery, tractors and other vehicles

### 2 Maintenance Procedures

- 2.1 Removal of rubbish
- 2.2 Brushing
- 2.3 Turf Loading
- 2.4 Exhaust Fumes
- 2.5 Deep Cleaning
- 2.6 Fungicide & herbicide treatment
- 2.7 Removal of stains, chewing gum and various liquids
- 2.8 Removal of snow and ice
- 2.9 Repairs
  - 2.1.1 Non-permanent marking
  - 2.1.2 Watering the surface

### 3 Limitations

- 3.1 Prohibitions

### 4 Special Events

### 5 Summary

- 5.1 Prohibited activities
- 5.2 Key points

Please distribute this manual to the persons responsible for the day-to-day maintenance of the field and ensure that they are thoroughly familiar with its contents. You should also review the warranty document provided after installation completion and familiarize yourself with the specific prohibitions and limitations contained therein.



# 1 GENERAL

Your GreenFields system represents a substantial investment. Please take the time to read the enclosed recommendations and ensure that whoever is given the task of looking after your facility is familiar with them.

1. Keep the surface clean.
2. Keep heavy machinery and loads off it.
3. Any minor repairs should be attended to as soon as possible and by GreenFields approved installers.
4. If any damage occurs, or if technical advice is needed, please do not hesitate to contact GreenFields.

It is the responsibility of the owners of this GreenFields field to read and adhere to the maintenance guidelines that follow. Failure to do so may affect the field guarantee.

## 1.1 FOOTWEAR

The correct footwear should be used to ensure against premature wear of the turf.

Encourage the use of shoes with plastic studs or hockey shoes with molded studs (multi-studded shoes). This type of footwear is also recommended for player safety to prevent slipping. Never use footwear with metal studs, screw-in studs or studded soles on the turf. The use of smooth-soled footwear (tennis shoes) is not recommended. The use of athletics shoes with long spikes or boots with studs longer than 18 mm is strictly forbidden. Make absolutely certain of the type of footwear worn by players and of the cleanliness of their shoes before every match or training session.

## 1.2 INTENDED USE

The technical information lists the sports suitable for artificial turf. Golf, shot put, javelin and discus are forbidden.

We strongly recommend you rotate the use of different playing areas, particularly if there are multiple playing areas on the field. This will reduce the burden placed on areas of heavy use.

It is very important to remove any material from the field that could affect game performance or the characteristics of the turf. Organic matter encourages the growth of algae and moss and may reduce/impede drainage.

## 1.3 MACHINERY, TRACTORS & OTHER

## VEHICLES

Approved maintenance vehicles are lawn tractors and ATV's with high float tires. No other vehicle should be allowed on the field.

Avoid sudden braking or acceleration. Avoid turning the wheels while the vehicle is stationary. Raise the brushes off the ground when in transport mode to avoid damaging the field. We recommend that vehicles are inspected and cleaned regularly.

To avoid the risk of burning or melting the turf should the engine or exhaust overheat, avoid parking vehicles on the field. Avoid topping up fluids on the field (oil, for example) and please note that a vehicle leaking gasoline, diesel oil, motor oil, or other petroleum based fluids will cause irreparable damage.

GreenFields recommends that warning signs are attached at each entrance to the field, an example of which is given below.

## PLEASE OBSERVE

To Ensure GreenFields Performance, Durability & Safety the Following is Prohibited:



**Metal spiked shoes**



**Food, Sunflower seeds & Glass**



**Chewing gum**



**Smoking and fire**



**Animals**



**Vehicles**



**GreenFields**  
HIGH PERFORMANCE TURF

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## 2 MAINTENANCE

### 2.1 REMOVAL OF RUBBISH

Litter, leaves, twigs, paper and other rubbish should be removed quickly to prevent anything becoming embedded between the fibers and to avoid the growth of moss or weeds. Please note that rubbish and litter left on the field presents a risk to players.

Depending on the quantity of rubbish to be removed, a rotary brush sweeper and/or a manual or motorized vacuum (with leaf blower) may be used.

Install a sufficient number of clearly visible rubbish bins around the field to reduce the quantity of litter on the ground. A hard-surfaced access route to the field and the presence of mats for wiping shoes before stepping onto the turf helps reduce mud/earth and dirt on the field.

### 2.2 BRUSHING

Brushing is extremely important to ensure that your field remains in immaculate condition. It straightens the fibers and thereby improves traction and rolling of the ball and avoids compaction without harming the artificial fibers. Brushing also allows for the removal of any rubbish that might have become trapped between the fibers.

We recommend brushing the turf at least once a week, preferably twice a week during periods of intensive use. Areas of intensive use may need to be brushed more frequently.

To this end, we recommend the use of a tractor fitted with a hydraulic height-adjustable suspended rotary brush or a fan brush with nylon or polyolefin bristles. The bristles of the sweeper should be a synthetic fiber such as polypropylene, with a minimum length of 2".

Do not use metal bristles as these will damage the surface or fall out and cause injury to the players.

It is recommended that the sweeping machinery has an internal vacuum/filter to ensure that any fine dust particles or contaminants are removed from within the surface during routine maintenance.

#### Brush Setting

This will depend on the model and type of sweeper being used. However, the best results can be gained by setting the brush so that it touches the top 3/8 to 1/2 in of your surface. This will allow the brush action to agitate the surface so that the suction can pick up the dislodged dust more effectively. This setting is highly important as a brush set too low will penetrate too far into the carpet pile and may cause irreversible damage to the carpet pile or seam areas.

If the sweeper is standing in one spot, do not have the brush rotating.

### 2.3 TURF LOADING

The vacuum/brush may need to be run over the field several times to successfully remove surface contamination. Any sweeper used which weighs over 300lbs should be equipped with pneumatic tires with a maximum tire pressure of 25psi.

In addition, when sweeping the surface, pay attention to the turning circle of the machine. This should be as wide as possible so as to avoid over exertion of the carpet in specific areas.

Do not park vehicles or leave equipment standing on a GreenFields surface.

### 2.4 EXHAUST FUMES

The type of fuel a sweeper uses is not important but you must ensure that hot engine exhaust is not directed towards the playing surface. The heat could damage your field.

## MAINTENANCE SCHEDULE

Type of Activity	Daily	Weekly	Monthly	Annually
Removal of trash	Daily			
Checking seams, general condition		1 x per week		
Brushing		2x per week		
Deep Cleaning			Bi-monthly	3-6x per year
Fungicide & Herbicide Treatment				1 x per year

## 2.5 DEEP CLEANING

The most suitable tool for deep cleaning is a machine that combines rotating brushes and a vacuum, thus removing dust, gravel and other debris while at the same time straightening the fibers. A brush with nylon bristles or polyolefin fibers measuring approximately 3 inches in length with a thickness of approximately 1/16th inch is ideal. Dry brushing obtains the best results. Brushing should be carried out against the direction of the fibers and across the width of the turf.

Turn the tractor at the end of every sweep avoiding tight turns. Do not pass back immediately alongside the strip that has just been swept, but make a wide turn along the field before crossing it again to sweep a new strip.

Pay particular attention to the penalty and goal areas, which inevitably come under more pressure. Companies that specialize in the maintenance of this type of field have the equipment required to meet these needs.

In order to remove dirt and dust that has settled at the bottom of the pile, we recommend carrying out a "wet" deep clean whenever necessary. A high-pressure (300 psi maximum) injection-extraction washer is ideal for this type of cleaning. Companies that specialize in the maintenance of this type of field have the equipment required to meet these needs.

## 2.6 FUNGICIDE & HERBICIDE TREATMENT

Although the turf is artificial and regular maintenance should prevent weeds growing on the field, we recommend fungicide and herbicide treatments (particularly on the field clearance area). Weeds may be (carefully) removed by hand, taking care not to damage the artificial turf.

As sports fields are often bordered by trees, bushes and other plants, we recommend treating the field once or twice a year to guard against moss and other weeds. Preventative treatments should be preferred to those that are curative. Use a biodegradable, environmentally friendly weed killer. Never use alkaline-based liquids (bleach or sodium hypochlorite) they will permanently damage the turf.

We recommend the use of a biocide to remove fungi or mildew stains.

## 2.7 REMOVAL OF STAINS, CHEWING GUM & VARIOUS LIQUIDS

The artificial fibers are highly resistant to stains. In most cases, it is not a question of real stains but rather of residues, and water is often the best detergent. Stubborn stains can be removed with a good fiber brush, hot water and a weak solution made of water and a small amount of dish-washing detergent. Rinse thoroughly to avoid making the turf slippery and allow the surface to dry.

Chewing gum can be removed once it has been frozen with ice or a cooling gel.

Please note that stains are always easier to clean when they are recent. Do not use unauthorized cleaning equipment or materials, or methods that have not been approved. If in doubt, please contact your GreenFields representative.

## 2.8 REMOVAL OF SNOW & ICE

For safety reasons, artificial turf should not be played on if covered in snow or ice. Generally speaking, it is preferable to allow the snow or ice to melt naturally and unaided. However, in the event of a planned sporting event, it is possible to remove the snow observing the following method.

Removal snow:

- Use only a rotary brush or leaf blower to remove snow
- Set the brush height to just nip the grass blade surface.

To remove ice - break it using a lightly weighted turf roller. Once it has been broken, the ice should be swept off the field.

Never use calcium chloride, ammonium nitrate, common salt, rock salt or other corrosive or toxic chemical products.

Playing on a field covered in ice is extremely dangerous and should not be allowed.

## 2.9 REPAIRS

Some areas are used more than others (the penalty spots, for example) and seams may open up over time. These are minor problems, however, but they can quickly become more serious issues if they are not fixed in a



timely fashion. On fields such as these it is not unusual to see the appearance of small patches of loosening along the seams; these can range in size from just a few inches to approximately 2 feet. This is not unusual and there is no reason for concern. They can usually be repaired by the maintenance staff. Generally speaking, cuts and tears in the surface that do not exceed approximately 6 inches in length can be repaired by the maintenance staff. All other repairs should be carried out by an approved specialist company.

#### Guidelines for repairing seams or tears:

Carry out these repairs in dry weather. Ensure that the areas to be repaired are clean, that any old glue has been removed and that no other foreign matter has contaminated the area to be repaired. Clean the area to be repaired with rubbing alcohol. Position the carpet in advance and check that its final position will be satisfactory. Apply a liberal amount of glue to the joining tape. Spread the glue using a 1/4" x 1/4" notched trowel so that it covers the surface of the fabric evenly. Use a polyurethane glue that hardens in the presence of water and absorbs humidity from the air in order to set. Press evenly on the fabric to bring it into contact with the layer of glue; apply weights to the affected area (bricks or cinder blocks are very good) and wait for at least 24 hours for it to have properly bonded (depending on the glue used).

Cigarette burns result in hard spots formed by the melted fibers. Manually use a stiff plastic brush and brush the area where these hard spots have formed vigorously to separate the fibers. If brushing these areas is not enough to separate the fibers, make small strokes with a razor blade over the melted area to divide it into small sections that can then be brushed.

#### 2.1.1 NON-PERMANENT MARKING

The field demarcation lines are usually an integral part of the turf. Nevertheless, in some circumstances, it may be necessary to draw lines on the surface. If you need to draw lines on the turf, contact your GreenFields representative beforehand to find out about the best type of paint to use.

Paint should be applied in a thin even layer to prevent clumps of paint forming. Thin layers provide good aesthetic results and last for an adequate period of time. Apply the paint to a dry, dust-free, non-greasy surface. To obtain the best possible results, the temperature of the turf should be between 50 F and 90 F. Carry out a test on

a small patch of turf in advance. Drying time is crucial. Allow the paint to dry for at least 24 hours. Avoid thick layers. The paint should be applied carefully to the tip of the turf fibers.

#### 2.1.2 WATERING THE SURFACES

Generally speaking, water is the best detergent. It removes dust, pollen and air-borne pollutants that may make the fibers dirty.

Water should be spread evenly across the playing surface in order to simply moisten it, without soaking or saturating it. Never use water from a polluted source. The water used should not contain iron oxide. The water may need to be treated in advance if it has a high limestone content (hard water). Once it has evaporated, the water may leave a visible residue in the form of a whiteish film on the turf which a brush will remove. Never use pressure washers.

Check the drainage system for any obstructions and make sure it is working properly. Watering the surface also prevents static electricity.

## 3 LIMITATION

Protecting the under-pad of the surface is especially important. As a general rule, GreenFields recommends that no long term still load of more than 15 Psi or any rolling load of more than 25psi be applied to your surface. Rolling loads of up to 25psi are acceptable now and then.

It is a good idea to eliminate any unnecessary long term static loads but do keep the necessary static ones as low and brief as possible. To further minimize the risk of damage to the turf system you can use sheets of 3/4" exterior plywood to spread major still loads (see Section 4).

Under static loads the surface should be protected by Polyethylene sheet to keep it clean.

Even some new plywood contains materials that may leach out and stain the surface if it gets wet, so a barrier, as suggested above, can prevent this happening.

### 3.1 PROHIBITIONS

The following should not be allowed on the pitch, and a special sign near the gate should continually draw the attention of the users to these regulations:

- No glass, tin or ceramics
- No smoking or fireworks
- No dirty or muddy footwear
- No chewing gum
- Correct footwear: No flat soled shoes, no metal studs
- No vehicles, except maintenance vehicles
- No animals

If mud and rubbish is allowed to be walked on to the pitch this will quickly affect the turf performance. The cost of cleaning the turf is expensive, therefore, observation and policing of these restrictions is advised. A client that has not put these restrictions into practice, or has failed to police them, must accept liability for any future failings of the turf surface.

## 4 SPECIAL EVENTS

Most of the questions asked regarding surface usage are concerned with assemblies, shoes and concerts or musical events. Concerns with surface loading and crowd management may arise here.

The first precaution is to keep the long term static loads below 300lb per ft<sup>2</sup> by using plywood or other load spreaders. Usually 4 x 8 foot sheets of 3/4 inch plywood will be satisfactory, as long as the load is not situated closer than 6 inches from the edge of the plywood.

To avoid staining the surface a white plastic should be placed under the plywood.

Do not place chairs directly onto a wet surface or any other objects with high point loadings.

Rock Shows/Concerts. Problems with surface loading to support stages and sound equipment can again usually be overcome by using proper load spreaders. A much more serious problem here is crowd control and concert crowd behavior.

If you find it necessary to hold any of the above events, contact GreenFields, for suggestions of ways to minimize the risk of damage.

In case of all alternative uses for your sporting surface, the owner should be aware that any resulting damage is not covered under guarantee.

# 5 SUMMARY

With the many advances of synthetic turf plus the innovations and developments of the past years, GreenFields products require a less intensive maintenance program than ever before. However your GreenFields products will perform, look and feel better for a longer period of time if the maintenance schedule outlined in this manual is adhered to.

This manual is designed to provide guidance for the correct use and maintenance of your product, if you have any further questions please feel free to contact your local GreenFields office.

## Prohibited activities

- Storage of materials on the field
- Vehicular traffic other than lawn tractors and ATV's
- Unauthorized sports such as golf, shot putt, javelin or discus throwing or similar
- The use of inappropriate footwear
- Open flame, fireworks, welding, etc.
- The use of wire brushes
- Any load in excess of 25 PSI
- The use of any unauthorized cleaning equipment, methods or materials
- High pressure washers or water sprayers
- Vehicles with non-pneumatic tires

## Key Points

- Control access to the field
- Keep the field clean and sweep the field as recommended within this manual
- Provide sufficient litter bins on site for public use
- Keep vehicular traffic off of the field
- Prohibit SMOKING on or around the field perimeter
- Use plywood and fabrics to protect the field if special events are scheduled
- Carry out minor repairs as soon as possible, report major repairs or concerns to your local GreenFields office
- Follow the recommendations and procedures incorporated within this manual
- Maintain the field as described at all times, even if the field is not been used regularly

IF IN DOUBT SEEK ADVICE FROM YOUR LOCAL GreenFields OFFICE

## Definitions

Pounds Per Square Inch (PSI) Layman terms:

Definition: Pressure a gas or liquid exerts on the walls of its container. Also called PSIG for pounds per square inch gauge.

Examples:

Human male (5 tall, medium build): 8 psi

M1 Abrams tank: 15 psi

1993 Toyota 4Runner: 25 psi

Adult horse (1250 lb): 25 psi

Passenger car: 30 psi

Wheeled ATV: 2 psi

Adult elephant: 35 psi

Mountain bicycle: 40 psi

Road racing bicycle: 90 psi

Stiletto heel: 471 psi

Note: Pressures for Man and Horse are for standing still. A walking human will exert more than double his standing pressure. A galloping horse will exert up to 500 psi. The ground pressure for a pneumatic tire is roughly equal to its inflation pressure.







## Major Maintenance Checklist

Club				Address				
Contact Person				City				
Fiber length	A	B	C	D	E	F	G	H
Sand Filling	Field		Surrounds		Circle		Spots	
	OK	NOK	OK	NOK	OK	NOK	OK	NOK
			Notes/ advice					
Edge Containment	OK	NOK						
Edge boards	OK	NOK						
Flatness	OK	NOK						
Joints	OK	NOK						
Lines	OK	NOK						
Fencing	OK	NOK						
Goals	OK	NOK						
Moss	Yes	No						
Weeds	Yes	No						
Fouling	Yes	No						
General Condition	OK	NOK						
			Yes/ No	Notes/ advice				
Minor Maintenance								
Major Maintenance								
Sweeper-vacuum								
Dragged with rubber mat								
Sprayed against algae, moss, and weeds								
Other work carried out/ extra work/ supply/ notes/ advice								
Work carried out by:								
Date:								



## Why GreenFields makes the difference

-  Unique In-house Laboratory
-  High Quality Products
-  Constant Innovation
-  Turnkey Solutions



**GreenFields**  
**HIGH PERFORMANCE TURF**



# **Field Hockey Maintenance Manual**



**GreenFields**  
HIGH PERFORMANCE TURF





# Introduction

The GreenFields® synthetic sports system consists of specifically manufactured artificial turf. This high quality turf with the correct installation procedure will provide a safe, comfortable and durable playing facility. A properly maintained field will perform similar to, or better than, that of a natural grass surface. GreenFields' main goal within this manual is to ensure the field is always at its optimum playing condition by providing you with the correct information and training.

GreenFields strives to provide the highest performance of our turf system from initial construction through weekly use and far into the future years. It is therefore essential that GreenFields provide detailed instructions for the use and maintenance of the system in order to guarantee our products performance.

Contact your GreenFields representative if you would like information or a consultation on a continued maintenance and service plan through GreenFields or one of our strategic partners.

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### 1 Key Points

### 2 Protection

### 3 Cleaning

- 3.1 Moss/Weed control
- 3.2 Water quality
- 3.3 Cleaning machines - Dry types
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- 3.5 Exhaust fumes
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### 5 Irrigating the Surface

- 5.1 Algae control

### 6 Special Events

### 7 Minor Repairs

- 7.1 When to repair
- 7.2 Seam repairs

### 8 Maintenance Schedules

### 9 Summary

Please distribute this manual to the persons responsible for the day-to-day maintenance of the field and ensure that they are thoroughly familiar with its contents. You should also review the warranty document provided after installation completion and familiarize yourself with the specific prohibitions and limitations contained therein.

# 1 KEY POINTS

1. Keep the surface clean.
2. Keep heavy machinery and loads off it (especially when wet).
3. Any minor repairs should be attended to as soon as possible and by GreenFields approved installers.
4. If any damage occurs, or if technical advice is needed, please do not hesitate to contact Green- Fields.

Your GreenFields system represents a substantial investment. Please take the time to read the enclosed recommendations and ensure that whoever is given the task of looking after your facility is familiar with them.

It is the responsibility of the owners of this GreenFields field to read and adhere to the maintenance guidelines that follow. Failure to do so may affect the field guarantee.

It is normal for the surface to be slippery underfoot during the first few weeks after installation. This is due to lubricants which are used to aid the manufacturing process.

## PROTECTION

2 To protect and prolong the life of your facility, please take note of the following recommendations:

- Install a fence around the field.
- Keep areas around the field free of litter, mud and debris.
- Put signs around prohibiting smoking, chewing gum and carrying food and drink onto the field. Also prohibit the carrying of glass onto the field.
- Particularly when the surface is wet, take note of recommended load limits.
- Repair minor damages quickly.
- Follow GreenFields suggested maintenance and cleaning procedures.

There are some perceptions that artificial sports surfaces are maintenance-free, as opposed to natural turf fields which require intensive maintenance. The reality is that artificial turf fields do require regular, on going maintenance if the playing and draining criteria of the surface are to be preserved. This guide outlines the essential maintenance works that are required to ensure that the facility remains in good condition.

A crucial tip for maintaining the field surface is to do a little often, rather than neglecting maintenance procedures for months and then facing large expenses to restore the field to its optimum performance capabilities. Neglecting to maintain the pitch will affect the warranty.

A GreenFields turf needs to be maintained on a regular basis in order for it to provide the best possible playing characteristics over its lifespan. The field will respond favorably provided it receives adequate maintenance.

The following pages have been designed to help you ensure that the full life expectancy of the surface is realized.

GreenFields recommends that warning signs are attached at each entrance to the field, an example of which is given below.

## PLEASE OBSERVE

To Ensure GreenFields Performance, Durability & Safety the Following is Prohibited:



**Metal spiked shoes**



**Food, Sunflower seeds & Glass**



**Chewing gum**



**Smoking and fire**



**Animals**



**Vehicles**



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## 3 CLEANING

The most obvious requirement is the cleaning up after players and spectators. Ensure there are plenty of garbage bins available and try to minimize unnecessary use of the field by spectators/ maintenance crews by directing traffic around, instead of across the field. If litter or loose dirt is left on the field, pick it up promptly before it penetrates into the pile.

If trees over hang the field surface, it is advised to implement a program of tree pruning. This will limit the amount of leaves and sap dropping on the surface. In addition, leaf collection should also be carried out as required.

Ensure that surrounding paths and gateways are clean. This will prevent dirt from being walked onto the field. It is advised to have the following at all field entrances:

- A walk on, walk off mat
- A dirt lock with grids
- Footwear brushes
- A notice with do's and don'ts for the field.

### 3.1 MOSS/WEED CONTROL

Moss/weed killing should take place four times a year to ensure that the pitch does not accumulate vegetation on the surface. Both the moss and weed killer agents must be water-based systematic products. Please also ensure that when the moss/weeds have died off, dead matter, including roots, is removed or in the case of moss swept out of the turf structure.

### 3.2 WATER QUALITY

Untreated or polluted water is not recommended for this type of surface as it may contain large quantities of dissolved solids which could cause a noticeable film to appear on the surface once the field is dry.

### 3.3 CLEANING MACHINES – DRY TYPES

Although vacuum-type machines are useful for lifting paper scraps, food, debris and loose rubbish from the surface, a combination vacuum/brush type sweeper is the best equipment for picking up dirt, dust and fine contamination particles. When thinking of purchasing such a cleaner, keep the following points in mind:

#### Brush Composition

The bristles of the sweeper should be a synthetic fiber such as polypropylene, with a minimum length of 2".

Do not use metal bristles as these will damage the surface or fall out and cause injury to the players.

It is recommended that the sweeping machinery has an internal vacuum/filter to ensure that any fine dust particles or contaminants are removed from within the surface during routine maintenance.

#### Brush Setting

This will depend on the model and type of sweeper being used. However, the best results can be gained by setting the brush so that it touches the top 3/8 to 1/2 in of your surface. This will allow the brush action to agitate the surface so that the suction can pick up the dislodged dust more effectively. This setting is highly important as a brush set too low will penetrate too far into the carpet pile and may cause irreversible damage to the carpet pile or seam areas.

If the sweeper is standing in one spot, do not have the brush rotating.

Brushing or grooming the field can only be done when the surface temperature is between 41 and 104 degrees Fahrenheit.

### 3.4 TURF LOADING

The vacuum/brush may need to be run over the field several times to successfully remove surface contamination. Any sweeper used which weighs over 300lbs should be equipped with pneumatic tires with a maximum tire pressure of 25psi.

In addition, when sweeping the surface, pay attention to the turning circle of the machine. This should be as wide as possible so as to avoid over exertion of the carpet in specific areas.

Do not park vehicles or leave equipment standing on a GreenFields surface.

### 3.5 EXHAUST FUMES

The type of fuel a sweeper uses is not important but you must ensure that hot engine exhaust is not directed towards the playing surface. The heat could damage your field.

### 3.6 SWEEPER MAINTENANCE

The manufacturer's recommendations should be followed



to keep the sweeper in top condition. Ensure that all machine maintenance is carried out away from the surface.

### 3.7 FREQUENCY OF CLEANING

Remove loose rubbish as needed. A thorough cleaning should be done at least twice a year. Please remember excessive use of heavy duty power brushing equipment can damage both the playing surface and the underpad.

Regular cleaning by vacuum/brush type machinery should take place Monthly as recommended, (see maintenance schedules).

### 3.8 STAIN REMOVAL

#### General Instructions

The first rule here is to act promptly because fresh spills are always easier to remove than dried or hardened ones. Remove any solids with a plastic spatula. Blot up excess liquids with plenty of paper towels or a dry absorbent such as 'kitty litter' or Fullers Earth. Dry absorbents can then be swept up or vacuumed up.

#### Procedure

Polyethylene surfaces have good resistance to staining. However, the surface is only one part of a sophisticated system of components designed for overall field performance.

Some cleaners safe to use on Polyethylene could be harmful to other parts of the system. This means cleaning fluids should be grouped into two sets – those which can be used liberally on the surface and those which should only be applied by rubbing with a cloth soaked in the cleaner to minimize possible effect on the underpad.

The following are some cleaners in the first group which can be applied without any special precautions:

1. A warm mild solution of dishwashing detergent in water OR a neutral low foaming detergent recommended for delicate fabrics. Use with approximately 5 gallons of water.

Stains removed with detergent solution:

Coffee	Tea	Grape Juice
Mustard	Cocoa	Water Color
Milk	Ketchup	Ice Cream
Margarine	Beer	Tomato Juice
Cola	Butter	Food Coloring

2. A 3% solution of ammonia should be used for more severe problems.

Thoroughly flush the surface with lots of cold water immediately afterwards.

3. Clean, dry absorbents such as paper towels or commercial 'kitty litter' for stains which can be blotted up.

The second group of cleaners includes chemicals such as pH neutral dry cleaning fluids. These cleaners must be applied sparingly using a damp cloth/rag, with care taken to avoid penetration of the top fiber of the turf, flush with warm soapy water immediately after.

Before using any such chemicals, clarification should be sought from a member of GreenFields technical team.

Stains removed with the second group of cleaners:

Asphalt	Shoe Polish	Ball Point Ink
Lipstick	Suntan Oil	Cooking Oil
Crayon	Floor Wax	*Chewing Gum
Scuff Marks	Motor oil/Grease	

\*Chewing Gum is a common hazard and can be removed by using dry cleaning fluid or by freezing. Aerosol packs or refrigerant can be sourced from carpet cleaning suppliers for this purpose, or dry ice could be used. When using such products care should be taken to ensure that the user instructions are strictly complied with.

To neutralize animal waste, use a mixture of white distilled vinegar with equal amounts of water. Flush thoroughly with water after the application.

Do not use Clorox, bleaches or caustic detergents on your surface as this will cause discoloration.

If in doubt, please consult GreenFields for clarification.

The handling and use cleaning chemicals in general, should be undertaken in strict adherence to the manufacturer's instructions.

## 4 LIMITATION

You may find your list of uses for your new surface will expand, these may include different types of equipment being moved about on it. Providing you take proper steps and precautions, most requirements can be met.

Protecting the under-pad of the surface is especially important. As a general rule, GreenFields recommends that no long term still load of more than 15 psi or any rolling load of more than 25psi be applied to your surface. Rolling loads of up to 25psi are acceptable now and then.

It is a good idea to eliminate any unnecessary long term static loads but do keep the necessary static ones as low and brief as possible. To further minimize the risk of damage to the turf system you can use sheets of 3/4" exterior plywood to spread major still loads (see Section 6).

Under static loads the surface should be protected by white Polyethylene sheet to keep it clean.

Even some new plywood contains materials that may leach out and stain the surface if it gets wet, so a barrier, as suggested above, can prevent this happening.

### 4.1 PROHIBITIONS

The following should not be allowed on the pitch, and a special sign near the gate should continually draw the attention of the users to these regulations:

- No glass, tin or ceramics
- No smoking or fireworks
- No dirty or muddy footwear
- No chewing gum
- Correct footwear: No flat soled shoes, no metal studs
- No vehicles, except maintenance vehicles
- No animals

If mud and rubbish is allowed to be walked on to the pitch this will quickly affect the turf performance. The cost of cleaning the turf is expensive, therefore, observation and policing of these restrictions is advised. A client that has not put these restrictions into practice, or has failed to police them, must accept liability for any future failings of the turf surface.

### 4.2 FOOTWEAR

Metal studs and flat sole shoes are not recommended.

These will disproportionately wear the surface and will affect your warranty.

### 4.3 ADVERSE WEATHER

Snow and ice is not harmful and can be permitted to melt naturally.

The turf structure will freeze in conditions of lower than 32°F. It is not advised to use the surface in these conditions. However, should use of the surface be unavoidable during such conditions, brush the field.

The field can be played on if covered in a light dusting of snow (1/8in depth) without having to remove the snow (providing line markings are clearly visible). It is recommended that players wear studded shoes in these conditions.

Heavy fall of snow should be removed brushing the field.

Use of the field in adverse weather is a matter of commonsense; if in doubt please consult GreenFields technical staff.

### 4.4 DRAINAGE & WATER REMOVAL

Outdoor pitches are either sloped to allow good drainage thus minimizing the need for mechanical water removal, or are the modern 'drainage-through' type with a permeable sub-base. Should it be necessary to assist the drainage of a field, a squeegee or a sponge roller can be used but it is very unlikely that this will be needed with a porous facility.

All manhole/containment pits and drainage pipes should be checked and cleared regularly.

## 5 IRRIGATING THE SURFACE

For the very best playing characteristics your surface should be irrigated, from a dry surface the field will require an average 2900 to 4000 gallons of water. In between games approx. 1300 to 2000 gallons can be applied and approx 800 to 1300 gallons at halftime as a top up for high level competition (this depends on base shape, type of surface, age, weather etc, player and umpire feedback will assist with this). While the GreenFields surface can be played on dry, for optimum performance watering is recommended.

When watering, be careful to distribute the water evenly over the area. The correct amount of water is dependent on the surface type, base etc. (tapping the surface with your foot and seeing droplets appear is a good indication of sufficient water).

Water used must be clean/ free from metal salts. All water should be free from bacteria and microbial growth.

Although the surface requires a lesser amount of water, it is advisable to have an irrigation system capable of delivering up to 1 gallon per sq ft evenly over the entire surface within a ten minute time scale. As pitch configurations and shapes vary, it is up to the owner/ player to assess the optimum quantity of water required on any given day.

### 5.1 ALGAE CONTROL

Algae growth is a natural occurrence caused mainly by humidity and although more frequently seen in warmer climates, it has occurred on a number of hockey pitches worldwide over the years. Please refer to worldhockey.org for further information. (Guide to the Care and Maintenance of Synthetic Turf Hockey Pitches July 2007).

## 6 SPECIAL EVENTS

Most of the questions asked regarding surface usage are concerned with assemblies, shoes and concerts or musical events. Concerns with surface loading and crowd management may arise here.

The first precaution is to keep the long term static loads below 300lb per ft<sup>2</sup> by using plywood or other load spreaders. Usually 4 x 8 foot sheets of 3/4 inch plywood will be satisfactory, as long as the load is not situated closer than 6 inches from the edge of the plywood.

To avoid staining the surface a white plastic should be placed under the plywood.

Do not place chairs directly onto a wet surface or any other objects with high point loadings.

Rock Shows/Concerts. Problems with surface loading to support stages and sound equipment can again usually be overcome by using proper load spreaders. A much more serious problem here is crowd control and concert crowd behavior.

If you find it necessary to hold any of the above events, contact GreenFields, for suggestions of ways to minimize the risk of damage.

In case of all alternative uses for your sporting surface, the owner should be aware that any resulting damage is not covered under guarantee.





## 7 MINOR REPAIRS

Your new surface has been carefully engineered to provide you good service for many years. However, in the unlikely event that small problems occur, please take note of the following:

### 7.1 WHEN TO REPAIR

Awareness of the optimum characteristics is the first step of any maintenance program, together with a day-by-day knowledge of the current usage and condition of the facility. Maintenance of synthetic hockey pitches is no exception.

Minor damage can soon develop into large scale failure if not repaired quickly, particularly under heavy use. As such, a daily inspection of the surface and immediate repair of any highlighted failures by GreenFields approved contractors is essential.

As well as routine care, every pitch should be given a twice yearly thorough inspection, preferably in the spring with a follow up early autumn. Inspect ALL seams and note any loose areas. Go over the surface of each roll of turf and note any rips or tears.

Repairs are more easily undertaken in warm, dry weather as adhesives hold better and cure faster. Adhesives should not be used when the system is wet except under expert guidance.

### 7.2 SEAM REPAIRS

Contact your contracting / installation partner for all repairs, minor or otherwise, if you are not an expert in the area.

## 8 MAINTENANCE SCHEDULES

The schedule overleaf indicates a suggested maintenance routine and a time management program to ensure its success.

The information and recommendations in this document should be regarded as the minimum amount of activities based on pitch usage up to 35 hours a week. Higher pitch usage means the frequency of activities needs to increase to reflect the additional hours e.g. pitches with usage of 60 hours a week will require double the basic maintenance activities.

A good idea is to create a maintenance log which records the activities carried out on a week-by-week and monthly basis. In addition, a section on the hours of usage per week can be kept as part of the log. This information will assist in the management of pitch maintenance, and will be an essential document to submit to GreenFields in the unlikely event of a claim under the guarantee (see separate document).



# 9 SUMMARY

With the many advances of synthetic turf plus the innovations and developments of the past years, GreenFields products require a less intensive maintenance program than ever before. However your GreenFields products will perform, look and feel better for a longer period of time if the maintenance schedule outlined in this manual is adhered to.

This manual is designed to provide guidance for the correct use and maintenance of your product, if you have any further questions please feel free to contact your local GreenFields office.

## Prohibited activities

- Storage of materials on the field
- Vehicular traffic other than lawn tractors and ATV's
- Unauthorized sports such as golf, shot putt, javelin or discus throwing or similar
- The use of inappropriate footwear
- Open flame, fireworks, welding, etc.
- The use of wire brushes
- Any load in excess of 25 PSI
- The use of any unauthorized cleaning equipment, methods or materials
- High pressure washers or water sprayers
- Vehicles with non-pneumatic tires

## Key Points

- Control access to the field
- Keep the field clean and sweep the field as recommended within this manual
- Provide sufficient litter bins on site for public use
- Keep vehicular traffic off of the field
- Prohibit SMOKING on or around the field perimeter
- Use plywood and fabrics to protect the field if special events are scheduled
- Carry out minor repairs as soon as possible, report major repairs or concerns to your local GreenFields office
- Follow the recommendations and procedures incorporated within this manual
- Maintain the field as described at all times, even if the field is not been used regularly

IF IN DOUBT SEEK ADVICE FROM YOUR LOCAL GreenFields OFFICE

## Definitions

Pounds Per Square Inch (PSI) Layman terms:

Definition: Pressure a gas or liquid exerts on the walls of its container. Also called PSIG for pounds per square inch gauge.

Examples:

Human male (5 tall, medium build): 8 psi

M1 Abrams tank: 15 psi

1993 Toyota 4Runner: 25 psi

Adult horse (1250 lb): 25 psi

Passenger car: 30 psi

Wheeled ATV: 2 psi

Adult elephant: 35 psi

Mountain bicycle: 40 psi

Road racing bicycle: 90 psi

Stiletto heel: 471 psi

Note: Pressures for Man and Horse are for standing still.

A walking human will exert more than double his standing pressure. A galloping horse will exert up to 500 psi.

The ground pressure for a pneumatic tire is roughly equal to its inflation pressure.





## Minor (club) Maintenance Checklist

Club					Address			
Contact Person					City			
	Dates when completed							
Disinfection with Centi Algenbac by spraying								
Leaves and litter								
Brushing and inspection								





## Why GreenFields makes the difference

-  Unique In-house Laboratory
-  High Quality Products
-  Constant Innovation
-  Turnkey Solutions



**GreenFields**  
**HIGH PERFORMANCE TURF**

### FELONY CONVICTION NOTICE

Statutory citation covering notification of criminal history of contractor is found in the Texas Education Code #44.034. Following is an example of a felony conviction notice:

State of Texas Legislative Senate Bill No. 1, Section 44.034, Notification of Criminal History, Subsection (a), states "a person or business entity that enters into a contract with a school district or ESC 8/TIPS must give advance notice to the district or ESC 8/TIPS if the person or an owner or operator of the business entity has been convicted of a felony. The notice must include a general description of the conduct resulting in the conviction of a felony."

Subsection (b) states "a school district may terminate a contract with a person or business entity if the district determines that the person or business entity failed to give notice as required by Subsection (a) or misrepresented the conduct resulting in the conviction. The district must compensate the person or business entity for services performed before the termination of the contract."

THIS NOTICE IS NOT REQUIRED OF A PUBLICLY-HELD CORPORATION

Complete only one of the three below: A or B or C.

I, the undersigned agent for the firm named below, certify that the information concerning notification of felony convictions has been reviewed by me and the following information furnished is true to the best of my knowledge.

Official: **Taylor McCarty**  
Print Authorized Company Official's Name

A. My firm is a publicly held corporation; therefore, this reporting requirement is not applicable.

Signature of Authorized Company Official: \_\_\_\_\_

B. My firm is not owned nor operated by anyone who has been convicted of a felony:

Signature of Authorized Company Official:  \_\_\_\_\_

C. My firm is owned or operated by the following individual(s) who has/have been convicted of a felony:

Name of Felon(s): \_\_\_\_\_

Details of Conviction(s): \_\_\_\_\_

Signature of Authorized Company Official: \_\_\_\_\_

CERTIFICATION BY CORPORATE OFFERER

~~IF OFFERER IS A CORPORATION~~

THE FOLLOWING CERTIFICATE SHOULD BE EXECUTED AND INCLUDED AS PART OF PROPOSAL FORM/PROPOSAL FORM.

OFFERER: Polyloom Corporation of America  
(Name of Corporation)

I, Greg Phillips certify that I am the Secretary of the Corporation  
(Name of Corporate Secretary)

named as OFFERER herein above; that

Taylor McCarty  
(Name of person who completed proposal document)

who signed the foregoing proposal on behalf of the corporation offerer is the authorized person that is acting as

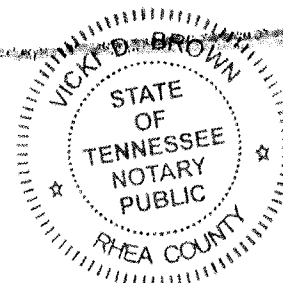
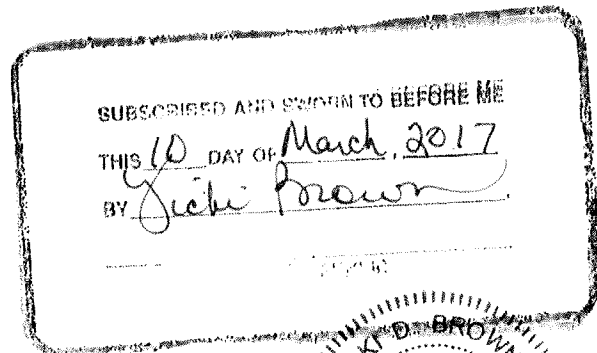
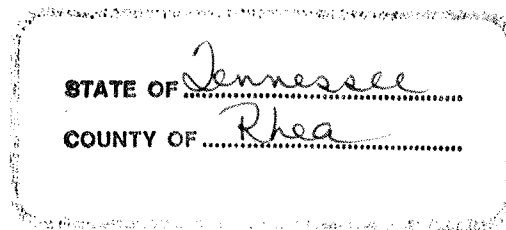
Sales Manager  
(Title/Position of person signing proposal/offer document within the corporation)

of the said Corporation; that said proposal/offer was duly signed for and in behalf of said corporation by authority of its governing body, and is within the scope of its corporate powers.

CORPORATE SEAL

Greg Phillips  
SIGNATURE

03/10/2017  
DATE





**Federal Requirements for Procurement and Contracting with small and minority businesses, women's business enterprises, and labor surplus area firms.**

The Education Service Center Region 8 and TIPS anticipate possibly using federal funds for procurement under this potential award and is required to obtain the following compliance assurance.

**1. Will you be subcontracting any of your work under this award if you are successful?** (Circle one)

☒ YES or NO ☐

**2. If yes, do you agree to comply with the following federal requirements?** (Circle one)

☒ YES or NO ☐

2 CFR §200.321 Contracting with small and minority businesses, women's business enterprises, and labor surplus area firms.

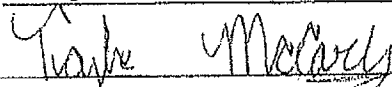
(a) The non-Federal entity must take all necessary affirmative steps to assure that minority businesses, women's business enterprises, and labor surplus area firms are used when possible.

(b) Affirmative steps must include:

- (1) Placing qualified small and minority businesses and women's business enterprises on solicitation lists;
- (2) Assuring that small and minority businesses, and women's business enterprises are solicited whenever they are potential sources;
- (3) Dividing total requirements, when economically feasible, into smaller tasks or quantities to permit maximum participation by small and minority businesses, and women's business enterprises;
- (4) Establishing delivery schedules, where the requirement permits, which encourage participation by small and minority businesses, and women's business enterprises;
- (5) Using the services and assistance, as appropriate, of such organizations as the Small Business Administration and the Minority Business Development Agency of the Department of Commerce ; and
- (6) Requiring the prime contractor, if subcontracts are to be let, to take the affirmative steps listed in paragraphs (1) through (5) of this section.

Company Name Polyloom Corporation of America (DBA GreenFields USA)

Print name of authorized representative Taylor McCarty

Signature of authorized representative 

Date 03/10/17

FAILURE TO PROPERLY COMPLETE THIS FORM AND SUBMIT WITH YOUR RESPONSE MAY RESULT  
IN A WAIVER OF YOUR RIGHTS UNDER THE LAW TO MAINTAIN CONFIDENTIALITY TREATMENT  
OF SUBMITTED MATERIALS.

CONFIDENTIAL INFORMATION SUBMITTED IN RESPONSE TO COMPETITIVE PROCUREMENT  
REQUESTS OF EDUCATION SERVICE CENTER REGION 8 AND TIPS IS GOVERNED BY TEXAS  
GOVERNMENT CODE, CHAPTER 552

If you consider any portion of your proposal to be confidential information and not subject to public disclosure pursuant to Chapter 552 Tex Gov't Code or other law(s), you **must** make a **copy** of all claimed confidential materials within your proposal and put this COMPLETED form as a cover sheet to said materials then scan, name "CONFIDENTIAL" and upload with your proposal submission. (You must include the confidential information in the submitted proposal as well, the copy uploaded is to indicate which material in your proposal, if any, you deem confidential in the event the District receives a Public Information Request.) Education Service Center Region 8 and TIPS will follow procedures of controlling statute(s) regarding any claim of confidentiality and shall not be liable for any release of information required by law. Pricing of solicited product or service may be deemed as public information under Chapter 552 Tex Gov't Code. The Office of Texas Attorney General shall make the final determination whether the information held by Education Service Center Region 8 and TIPS is confidential and exempt from public disclosure.

**I DO NOT desire to expressly waive** any claim of confidentiality as to any and all information contained within our response to the competitive procurement process (e.g. RFP, CSP, Bid, RFQ, etc.) by completing the following and submitting this sheet with our response to Education Service Center Region 8 and TIPS. The attached contains material from our proposal that I classify and deem confidential under Texas Gov't Code Sec. 552 or other law(s) and I invoke my statutory rights to confidential treatment of the enclosed materials:

Polyloom Corp. DBA Greenfields  
Name of company claiming confidential status of material

Greg Phillips CEO/Secretary Maryn. Phillips  
Printed Name, Title, and Signature of authorized company officer claiming confidential status of material

1131 Broadway Street Dayton TN 37321 423-847-8433  
Address City State ZIP Phone

ATTACHED ARE COPIES OF \_\_\_\_\_ PAGES OF CONFIDENTIAL MATERIAL FROM OUR PROPOSAL

**Express Waiver: I desire to expressly waive** any claim of confidentiality as to any and all information contained within our response to the competitive procurement process (e.g. RFP, CSP, Bid, RFQ, etc.) by completing the following and submitting this sheet with our response to Education Service Center Region 8 and TIPS.

\_\_\_\_\_  
Name of company expressly waiving confidential status of material

\_\_\_\_\_  
Printed Name, Title, and Signature of authorized company officer expressly waiving confidential status of material

\_\_\_\_\_  
Address City State ZIP Phone



# HUB Subcontracting Plan (HSP)

## QUICK CHECKLIST

While this HSP Quick Checklist is being provided to merely assist you in readily identifying the sections of the HSP form that you will need to complete, it is very important that you adhere to the instructions in the HSP form and instructions provided by the contracting agency.

➤ If you will be awarding all of the subcontracting work you have to offer under the contract to only Texas certified HUB vendors, complete:

- ☐ Section 1 - Respondent and Requisition Information
- ☐ Section 2 a. - Yes, I will be subcontracting portions of the contract
- ☐ Section 2 b. - List all the portions of work you will subcontract, and indicate the percentage of the contract you expect to award to Texas certified HUB vendors
- ☐ Section 2 c. - Yes
- ☐ Section 4 - Affirmation
- ☐ GFE Method A (Attachment A) - Complete an Attachment A for each of the subcontracting opportunities you listed in Section 2 b.

➤ If you will be subcontracting any portion of the contract to Texas certified HUB vendors and Non-HUB vendors, and the aggregate percentage of all the subcontracting work you will be awarding to the Texas certified HUB vendors with which you have a continuous contract in place for five (5) years or less meets or exceeds the HUB Goal the contracting agency identified in the "Agency Special Instructions/Additional Requirements", complete:

- ☐ Section 1 - Respondent and Requisition Information
- ☐ Section 2 a. - Yes, I will be subcontracting portions of the contract
- ☐ Section 2 b. - List all the portions of work you will subcontract, and indicate the percentage of the contract you expect to award to Texas certified HUB vendors and Non-HUB vendors
- ☐ Section 2 c. - No
- ☐ Section 2 d. - Yes
- ☐ Section 4 - Affirmation
- ☐ GFE Method A (Attachment A) - Complete an Attachment A for each of the subcontracting opportunities you listed in Section 2 b.

➤ If you will be subcontracting any portion of the contract to Texas certified HUB vendors and Non-HUB vendors or only to Non-HUB vendors, and the aggregate percentage of all the subcontracting work you will be awarding to the Texas certified HUB vendors with which you have a continuous contract in place for five (5) years or less does not meet or exceed the HUB Goal the contracting agency identified in the "Agency Special Instructions/Additional Requirements", complete:

- ☐ Section 1 - Respondent and Requisition Information
- ☐ Section 2 a. - Yes, I will be subcontracting portions of the contract
- ☐ Section 2 b. - List all the portions of work you will subcontract, and indicated the percentage of the contract you expect to award to Texas certified HUB vendors and Non-HUB vendors
- ☐ Section 2 c. - No
- ☐ Section 2 d. - No
- ☐ Section 4 - Affirmation
- ☐ GFE Method B (Attachment B) - Complete an Attachment B for each of the subcontracting opportunities you listed in Section 2 b.

➤ If you will not be subcontracting any portion of the contract and will be fulfilling the entire contract with your own resources, complete:

- ☒ Section 1 - Respondent and Requisition Information
- ☒ Section 2 a. - No, I will not be subcontracting any portion of the contract, and I will be fulfilling the entire contract with my own resources
- ☒ Section 3 - Self Performing Justification
- ☒ Section 4 - Affirmation

**\*Continuous Contract:** Any existing written agreement (including any renewals that are exercised) between a prime contractor and a HUB vendor, where the HUB vendor provides the prime contractor with goods or service under the same contract for a specified period of time. The frequency the HUB vendor is utilized or paid during the term of the contract is not relevant to whether the contract is considered continuous. Two or more contracts that run concurrently or overlap one another for different periods of time are considered by CPA to be individual contracts rather than renewals or extensions to the original contract. In such situations the prime contractor and HUB vendor are entering (have entered) into "new" contracts.



# HUB Subcontracting Plan (HSP)

In accordance with Texas Gov't Code §2161.252, the contracting agency has determined that subcontracting opportunities are probable under this contract. Therefore, all respondents, including State of Texas certified Historically Underutilized Businesses (HUBs) must complete and submit this State of Texas HUB Subcontracting Plan (HSP) with their response to the bid requisition (solicitation).

**NOTE: Responses that do not include a completed HSP shall be rejected pursuant to Texas Gov't Code §2161.252(b).**

The HUB Program promotes equal business opportunities for economically disadvantaged persons to contract with the State of Texas in accordance with the goals specified in the 2009 State of Texas Disparity Study. The statewide HUB goals defined in 34 Texas Administrative Code (TAC) §20.13 are:

- **11.2 percent for heavy construction other than building contracts,**
- **21.1 percent for all building construction, including general contractors and operative builders' contracts,**
- **32.9 percent for all special trade construction contracts,**
- **23.7 percent for professional services contracts,**
- **26.0 percent for all other services contracts, and**
- **21.1 percent for commodities contracts.**

**- - Agency Special Instructions/Additional Requirements - -**

In accordance with 34 TAC §20.14(d)(1)(D)(iii), a respondent (prime contractor) may demonstrate good faith effort to utilize Texas certified HUBs for its subcontracting opportunities if the total value of the respondent's subcontracts with Texas certified HUBs meets or exceeds the statewide HUB goal or the agency specific HUB goal, whichever is higher. When a respondent uses this method to demonstrate good faith effort, the respondent must identify the HUBs with which it will subcontract. If using existing contracts with Texas certified HUBs to satisfy this requirement, only contracts that have been in place for five years or less shall qualify for meeting the HUB goal. This limitation is designed to encourage vendor rotation as recommended by the 2009 Texas Disparity Study.

## SECTION-1: RESPONDENT AND REQUISITION INFORM

- a. Respondent (Company) Name: Polyloom Corporation of America (DBA GreenFields USA) State of Texas VID #: 62-1137748  
Point of Contact: Taylor McCarty Phone #: 202-460-1962  
E-mail Address: t.mccarty@greenfieldsusa.com Fax #: : 423-775-5813
- b. Is your company a State of Texas certified HUB? ☐ - Yes ☒ - No
- c. Requisition #: 170205 Bid Open Date: 03/17/2017

(mm/dd/yyyy)



Enter your company's name here: Taylor McCartyRequisition #: 03/17/17**SECTION-2: SUBCONTRACTING INTENTIONS RESPONDENT**

After dividing the contract work into reasonable lots or portions to the extent consistent with prudent industry practices, and taking into consideration the scope of work to be performed under the proposed contract, including all potential subcontracting opportunities, the respondent must determine what portions of work, including goods and services, will be subcontracted. Note: In accordance with 34 TAC §20.11., an "Subcontractor" means a person who contracts with a prime contractor to work, to supply commodities, or to contribute toward completing work for a governmental entity.

a. Check the appropriate box (Yes or No) that identifies your subcontracting intentions:

- ☐ - **Yes**, I will be subcontracting portions of the contract. (If **Yes**, complete Item b, of this SECTION and continue to Item c of this SECTION.)  
☒ - **No**, I will not be subcontracting any portion of the contract, and I will be fulfilling the entire contract with my own resources. (If **No**, continue to SECTION 3 and SECTION 4.)

b. List all the portions of work (subcontracting opportunities) you will subcontract. Also, based on the total value of the contract, identify the percentages of the contract you expect to award to Texas certified HUBs, and the percentage of the contract you expect to award to vendors that are not a Texas certified HUB (i.e., Non-HUB).

Item #	Subcontracting Opportunity Description	HUBs		Non-HUBs
		Percentage of the contract expected to be subcontracted to HUBs with which you have a <u>continuous contract</u> * in place for <u>five (5) years or less</u> .	Percentage of the contract expected to be subcontracted to HUBs with which you have a <u>continuous contract</u> * in place for <u>more than five (5) years</u> .	Percentage of the contract expected to be subcontracted to non-HUBs.
1		%	%	%
2		%	%	%
3		%	%	%
4		%	%	%
5		%	%	%
6		%	%	%
7		%	%	%
8		%	%	%
9		%	%	%
10		%	%	%
11		%	%	%
12		%	%	%
13		%	%	%
14		%	%	%
15		%	%	%
Aggregate percentages of the contract expected to be subcontracted:		%	%	%

(Note: If you have more than fifteen subcontracting opportunities, a continuation sheet is available online at <http://window.state.tx.us/procurement/prog/hub/hub-subcontracting-plan/>).

c. Check the appropriate box (Yes or No) that indicates whether you will be using **only** Texas certified HUBs to perform **all** of the subcontracting opportunities you listed in SECTION 2, Item b.

- ☐ - **Yes** (If **Yes**, continue to SECTION 4 and complete an "HSP Good Faith Effort - Method A (Attachment A)" for each of the subcontracting opportunities you listed.)  
☐ - **No** (If **No**, continue to Item d, of this SECTION.)

d. Check the appropriate box (Yes or No) that indicates whether the aggregate expected percentage of the contract you will subcontract **with Texas certified** HUBs with which you have a **continuous contract**\* in place with for five (5) years or less **meets or exceeds** the HUB goal the contracting agency identified on page 1 in the "**Agency Special Instructions/Additional Requirements**".

- ☐ - **Yes** (If **Yes**, continue to SECTION 4 **and** complete an "HSP Good Faith Effort - Method A (Attachment A)" for **each** of the subcontracting opportunities you listed.)  
☐ - **No** (If **No**, continue to SECTION 4 **and** complete an "HSP Good Faith Effort - Method B (Attachment B)" for **each** of the subcontracting opportunities you listed.)

**\*Continuous Contract:** Any existing written agreement (including any renewals that are exercised) between a prime contractor and a HUB vendor, where the HUB vendor provides the prime contractor with goods or service under the same contract for a specified period of time. The frequency the HUB vendor is utilized or paid during the term of the contract is not relevant to whether the contract is considered continuous. Two or more contracts that run concurrently or overlap one another for different periods of time are considered by CPA to be individual contracts rather than renewals or extensions to the original contract. In such situations the prime contractor and HUB vendor are entering (have entered) into "new" contracts.

Enter your company's name here: Polyloom Corporation of America (DBA GreenFields USA)Requisition #: 170205**SECTION-3: SELF PERFORMING JUSTIFICATION** (If you responded 'No' to SECTION 2, Item a, you must complete this SECTION and continue to SECTION 4)

Check the appropriate box (Yes or No) that indicates whether your response/proposal contains an explanation demonstrating how your company will fulfill the entire contract with its own resources.

- ☐ - **Yes** (If **Yes**, in the space provided below **list the specific page(s)/section(s)** of your proposal which explains how your company will perform the entire contract with its own equipment, supplies, materials and/or employees.)
- ☒ - **No** (If **No**, in the space provided below **explain how** your company will perform the entire contract with its own equipment, supplies, materials and/or employees.)

GreenFields USA has an organized set of certified distributors and installers throughout the United States that would be responsible for any installations and contracts won through TIPS. It is GreenFields' opinion that the best way to ensure the quality of the installation is work with their partners who combined have installed over 1,000 fields throughout the United States.

Each of these companies have the supplies, equipment, materials, and employees to complete the job. In the case of a standard install or replacement and install of a synthetic turf field, all GreenFields installers and distributors have the ability to do the work 100% themselves.

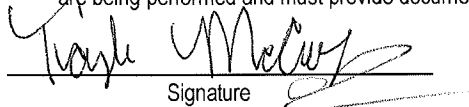
A list of GreenFields partners are as follows:

- 1) Academy Sports Turf
- 2) T3 Global Projects
- 3) Midwest Sport and Turf Systems, LLC
- 4) NET Sports Group
- 5) Symmetry Turf Sports Field Construction (based in Texas)

**SECTION-4: AFFIRMATION**

As evidenced by my signature below, I affirm that I am an authorized representative of the respondent listed in SECTION 1, and that the information and supporting documentation submitted with the HSP is true and correct. Respondent understands and agrees that, if awarded any portion of the requisition:

- The respondent will provide notice as soon as practical to all the subcontractors (HUBs and Non-HUBs) of their selection as a subcontractor for the awarded contract. The notice must specify at a minimum the contracting agency's name and its point of contact for the contract, the contract award number, the subcontracting opportunity they (the subcontractor) will perform, the approximate dollar value of the subcontracting opportunity and the expected percentage of the total contract that the subcontracting opportunity represents. A copy of the notice required by this section must also be provided to the contracting agency's point of contact for the contract no later than ten (10) working days after the contract is awarded.
- The respondent must submit monthly compliance reports (Prime Contractor Progress Assessment Report – PAR) to the contracting agency, verifying its compliance with the HSP, including the use of and expenditures made to its subcontractors (HUBs and Non-HUBs). (The PAR is available at <http://www.window.state.tx.us/procurement/prog/hub/hub-forms/progressassessmentrpt.xls>).
- The respondent must seek approval from the contracting agency prior to making any modifications to its HSP, including the hiring of additional or different subcontractors and the termination of a subcontractor the respondent identified in its HSP. If the HSP is modified without the contracting agency's prior approval, respondent may be subject to any and all enforcement remedies available under the contract or otherwise available by law, up to and including debarment from all state contracting.
- The respondent must, upon request, allow the contracting agency to perform on-site reviews of the company's headquarters and/or work-site where services are being performed and must provide documentation regarding staffing and other resources.

  
Signature

**Taylor McCarty**

Printed Name

**Sales Manager**

Title

**03/17/2017**

Date  
(mm/dd/yyyy)

**Reminder:**

- If you responded "Yes" to SECTION 2, Items c or d, you must complete an "HSP Good Faith Effort - Method A (Attachment A)" for each of the subcontracting opportunities you listed in SECTION 2, Item b.
- If you responded "No" SECTION 2, Items c and d, you must complete an "HSP Good Faith Effort - Method B (Attachment B)" for each of the subcontracting opportunities you listed in SECTION 2, Item b.



March 29, 2016

RE: Polyloom Corporation of America, Inc. dba Greenfields USA

To Whom It May Concern:

Ohio Casualty Insurance Company, an A rated and Treasury Listed Surety, is prepared to issue performance and payment bonds up to \$1,000,000 Single \$4,000,000 Aggregate for the above captioned principal, subject to an acceptable contract. Should you have any questions please do not hesitate to contact me at the below number.

JSL SURETY

Sincerely,

A handwritten signature in blue ink, appearing to read 'J. Erik McMichael', is written over the printed name and title.

J. Erik McMichael

Attorney-In-Fact for Ohio Casualty Insurance Company

## MANUFACTURER'S LIMITED FIELD WARRANTY

**1. Limited warranty.** Subject to the terms, conditions and limitations contained in this Statement of Limited Warranty, Greenfields USA ("Greenfields") warrants the following to the person, firm or entity indicated on the signature page hereof ("Purchaser"): That under normal conditions the Greenfields product Purchaser acquired: (1) will for a period of 8 years from the date of substantial completion, be free from defects in workmanship, (2) will with respect to the yarn component thereof, maintain UV-stability to the extent warranted by (Yarn Manufacturer) for such period of time warranted by it. This warranty is only valid for the original installation pursuant to the terms and conditions herein.

**2. Remedy.** As Purchaser's sole and exclusive remedy: If the Greenfields product fails to perform as warranted above during an applicable warranty period, Greenfields will provide Purchaser a credit toward a replacement Greenfields turf product of equivalent grade as that warranted hereunder. This Statement of Limited Warranty and the sole and exclusive remedy described herein do not include any costs associated with removal or disposal of defective turf or manufacture or installation of replacement turf, and such costs are expressly disclaimed. IN NO EVENT SHALL THE OBLIGATIONS OF GREENFIELDS HEREUNDER EXCEED THE ORIGINAL PURCHASE PRICE RECEIVED BY GREENFIELDS FOR PRODUCTS WARRANTED HEREUNDER AND ACQUIRED BY END USER.

**3. Exclusions and Limitations on coverage.** This warranty does not apply: (i) if the product is used for any application other than a sports playing surface (i.e., football, lacrosse, hockey, soccer, rugby, baseball, handball); (ii) to any damage caused during or on account of improper processing, installation or repairs; (iii) to the extent that any defect or damage is caused by (any one or more of the following): (a) Burns, cuts, accidents, vandalism, abuse, negligence or neglect; (b) Improper design or failure of the sub-base of the sports field or court; (c) Wear or abrasion caused by an inadequate sub-base; (d) Use of infill products of an incorrect grade (according to FIFA accredited test institutes, such as ISA-Sport/ Labosport, or other test institutes accredited by Greenfields); (e) Failure to maintain infill products at the correct level (according to FIFA accredited test institutes, such as ISA-Sport/ Labosport, or other test institutes accredited by Greenfields); (f) Use of inappropriate footwear (e.g., metal cleats, spikes or similar projections other than conventional rubber knob cleats designed for football, soccer, or baseball) or other sports equipment, flat soled shoes; (g) The playing surface being used other than for the purpose for which it was designed and installed; (h) Use of cleaning chemicals, herbicides or pesticides; (i) Use of improper cleaning methods; (j) Use of infill made in whole or in part from volcanic ash, including, but not limited to Clinoptilolite zeolite; (k) Acts of God or other conditions beyond the reasonable control of Greenfields; (l) Post fibrillation after or during installation for purposes other than to get the infill materials in place; or (m) Failure to properly maintain, protect or repair the turf; (n) Inappropriate use of the product as described in maintenance manuals published by Greenfields; (o) Static or dynamic loads exceeding manufacturer specifications; (p) excessive use (more than 1700 playing hours and/or other approved use annually). All synthetic turf is subject to normal wear and tear. Normal wear and tear is not a manufacturing defect and is not covered by this warranty. In addition to the factors mentioned above, wear and tear depends on, without limitation, the construction of the synthetic turf (fiber face weight, stitch rate, fiber pile height and gauge) and the intensity of use of the synthetic turf; (q) if the product is maintained and/or repaired at any time by anyone other than a service company authorized by Greenfields to perform product repair and/or maintenance; (r) failure to maintain the field per any and all instructions contained in field maintenance manuals and/or other instructions published by GreenFields, regardless of whether maintained by a service company authorized by GreenFields to perform product repair and/or maintenance; (s) Use of any infill product that includes any chemical or chemicals (or is coated therewith) or that otherwise causes or contributes to any chemical reaction that damages the artificial turf yarn; and/or (iv)) If the below purchaser fails to clearly and legibly log any and all maintenance, repairs, and/or other upkeep performed on the field by and/or at the behest of such purchaser and/or fails to produce such log for inspection upon request by GreenFields. Greenfields shall not be responsible for any warranty issued or made by Purchaser to third parties, including, without limitation, any warranty made by Purchaser with respect to useful life. Notwithstanding any other language herein to the contrary, this warranty does not apply to any damage to or failure of the products or other damages resulting, directly or indirectly, from acts of God or conditions beyond the reasonable control of Greenfields, including, without limitation, accidents, fire, misuses, negligence, improper installation, improper storage, modifications, alterations, tampering, vandalism or failure to properly maintain, protect or repair the Products.

**4. Limitation of liability.** IN NO EVENT SHALL GREENFIELDS BE LIABLE, WHETHER IN CONTRACT OR IN TORT (INCLUDING BUT NOT LIMITED TO NEGLIGENCE) OR UNDER ANY OTHER LEGAL THEORY (INCLUDING BUT NOT LIMITED TO STRICT LIABILITY), FOR BODILY INJURY, DEATH, LOST PROFITS OR REVENUES, LOSS OF USE OR SIMILAR ECONOMIC LOSS, OR FOR INDIRECT, SPECIAL, INCIDENTAL, CONSEQUENTIAL, PUNITIVE OR SIMILAR DAMAGES ARISING OUT OF OR IN CONNECTION WITH THE USE, CONDITION, POSSESSION, PERFORMANCE, MAINTENANCE, NON-DELIVERY OR LATE DELIVERY OF THE PRODUCTS, EVEN IF GREENFIELDS HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

**5. No Other Warranties.** THE WARRANTY PROVIDED HEREIN IS THE SOLE AND EXCLUSIVE WARRANTY WITH RESPECT TO GREENFIELDS PRODUCTS AND SUPERSEDES ANY AND ALL OTHER WARRANTIES, ORAL OR WRITTEN, OF ANY TYPE RELATING TO GREENFIELDS PRODUCTS. ANY PRODUCTS OF GREENFIELDS NOT COVERED BY THIS WARRANTY ARE SOLD "AS IS," WITHOUT WARRANTIES OF ANY KIND, INCLUDING, BUT NOT LIMITED TO, THOSE OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, AND/OR NON-INFRINGEMENT OF THIRD PARTY RIGHTS, AND GREENFIELDS HEREBY DISCLAIMS THE SAME. THE REMEDY OF CREDIT TOWARD A REPLACEMENT GREENEFIELDS PRODUCT OF EQUIVALENT GRADE SET FORTH IN SECTION 2 OF THIS LIMITED WARRANTY IS THE SOLE OBLIGATION OF GREENFIELDS, AND THE SOLE REMEDY OF PURCHASER, UNDER THE WARRANTY PROVIDED HEREIN. EXCEPT AS PROVIDED HEREIN, GREENFIELDS MAKES NO REPRESENTATIONS OR WARRANTIES OF ANY KIND, NATURE OR DESCRIPTION WITH RESPECT TO ANY OF ITS PRODUCTS, EXPRESS OR IMPLIED,



### MANUFACTURER'S LIMITED FIELD WARRANTY

INCLUDING, WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY, FITNESS OF ANY OF THE PRODUCTS FOR ANY PARTICULAR PURPOSE, AND/OR NON-INFRINGEMENT OF THIRD PARTY RIGHTS, AND GREENFIELDS HEREBY DISCLAIMS THE SAME.

**6. Notification of claims.** Notwithstanding any other language contained in this limited warranty to the contrary: This limited warranty is conditioned on Purchaser paying Greenfields's invoices for product when due and submitting the Certificate of Substantial Completion to Greenfields as validation of the installation within thirty (30) days of the installation. This limited warranty is further conditioned on Purchaser submitting a claim under this limited warranty in writing within 30 days of discovery of an alleged defect, such written claim including proof of sale and installation date, name and address of the end-user, roll numbers and/or panel numbers affected, copies of maintenance records, location of installation, product sample/fiber material, sample of infill material(s) and a minimum of three clear pictures showing the problem to: Greenfields USA, 4910 Jonesboro Road, Union City, GA 30291. Once the complete claim has been received by Greenfields, Greenfields shall be allowed a reasonable amount of time to respond to the claim, including time to inspect the Product and the alleged defect(s) at the installation site during reasonable business hours, and to conduct such tests as Greenfields in its discretion may deem necessary. Greenfields shall also be allowed a reasonable opportunity to cure any alleged defect(s). Greenfields shall not be responsible for any costs or expenses incurred by Purchaser or others with respect to any tests, inspections or consultations conducted by Purchaser or others. Greenfields shall be furnished copies of any and all written reports of any tests performed by the Purchaser and/or Owner. Said reports shall identify the name and address of the entity or individual that performed the tests made the basis of the reports. Purchaser must promptly inspect all Products upon delivery. Anything herein to the contrary notwithstanding, to the extent that any defects, shortages or non-conformities in the products are discoverable by inspection upon delivery of the products, all obligations of Greenfields to Purchaser with respect to such defects, shortages and non-conformities shall be deemed to be satisfied, and all products shall be deemed to be free of such defects, shortages and non-conformities, unless Purchaser notifies Greenfields of such defects, shortages or non-conformities in writing within 30 days after the date of delivery.

**7. Modifications.** This warranty, together with the Turf Sales Agreement for the project listed below, is the complete, final and exclusive agreement of the parties with respect to the quality and performance of the products and any and all representations and warranties concerning the products. No dealer, sales representative or similar person has the authority to make any representations or warranties with respect to the products, to extend any warranty period hereunder or otherwise to change, modify, amend or supplement the provisions of this warranty. None of the provisions of this warranty may be changed, modified, amended or supplemented except by a written instrument signed by an authorized representative of Greenfields. This warranty applies to all Greenfields products sold to Purchaser beginning on the date this warranty certificate is issued to Purchaser and continuing until Greenfields issues Purchaser a new warranty certificate signed by an authorized representative of Greenfields that expressly supersedes this warranty certificate in whole or in part. Any such new warranty certificate will be effective upon receipt by Purchaser. Purchaser's purchase of any Greenfields products following receipt of any new warranty certificate from Greenfields will constitute Purchaser's acceptance of the terms and conditions of such new warranty certificate.

**8. Waiver.** No failure on the part of Greenfields to exercise, and no delay by Greenfields in exercising any right, power or remedy hereunder shall operate as a waiver thereof, nor shall any single or partial exercise of any right, power or remedy by Greenfields preclude any other or further exercise thereof or the exercise of any other right, power or remedy.

**9. Governing law.** This warranty and the rights and obligations of the parties under this warranty shall be governed by the laws of the State of Georgia without regard to its conflicts of laws principles. Sales of products by Greenfields to Purchaser shall not be subject to the United Nations Convention on the International Sale of Goods.

**10. Severability.** If any provision or portion of any provision of this warranty shall be held to be illegal, invalid or unenforceable by a court of competent jurisdiction, the remaining provisions or portions thereof shall constitute the parties' agreement with respect to the subject matter hereof, and all such remaining provisions or portions thereof shall remain in full force and effect.

**11. Assignment.** Purchaser may not transfer, convey or otherwise assign all or any of its rights under this warranty without the prior written consent of Greenfields. Any such transfer or assignment by Purchaser without Greenfields's prior written consent shall be null and void and of no force or effect. This warranty shall inure to the benefit of and are binding upon Greenfields and Purchaser and their respective successors and permitted assigns. Claims under this warranty may only be made by Purchaser and not by Purchaser's customers or any other third parties.

**12. Effect.** Signature and return by an authorized representative of Greenfields is a condition precedent to this limited warranty taking effect.

Greenfields Reference:		Product Installed:	
Intended Use:		Substantial Completion Date:	
Purchaser/Warranty Holder:			
Address:			
Field/Installation Name:		Field Size:	
Address:			
Owner/End-User:			

**MANUFACTURER'S LIMITED FIELD WARRANTY**

**Address:**

**POLYLOOM CORPORATION OF AMERICA D/B/A GREENFIELDS USA**

Signed: \_\_\_\_\_  
(Name & Title)

Date: \_\_\_\_\_

## MANUFACTURER'S LIMITED FIELD WARRANTY

**1. Limited warranty.** Subject to the terms, conditions and limitations contained in this Statement of Limited Warranty, Greenfields USA ("Greenfields") warrants the following to the person, firm or entity indicated on the signature page hereof ("Purchaser"): That under normal conditions the Greenfields product Purchaser acquired: (1) will for a period of 8 years from the date of substantial completion, be free from defects in workmanship, (2) will with respect to the yarn component thereof, maintain UV-stability to the extent warranted by (Yarn Manufacturer) for such period of time warranted by it. This warranty is only valid for the original installation pursuant to the terms and conditions herein.

**2. Remedy.** As Purchaser's sole and exclusive remedy: If the Greenfields product fails to perform as warranted above during an applicable warranty period, Greenfields will provide Purchaser a credit toward a replacement Greenfields turf product of equivalent grade as that warranted hereunder, calculated as follows: The credit shall be a prorated sum equal to one eighth of the price Purchaser paid for the Greenfields product warranted hereunder multiplied by the total number of full calendar years remaining in the Limited Warranty Period (and ignoring any partial calendar years). As a condition of receiving such replacement turf, Purchaser must pay to Greenfields an amount equal to the difference between the purchase price for such replacement turf and foregoing credit amount. This Statement of Limited Warranty and the sole and exclusive remedy described herein do not include any costs associated with removal or disposal of defective turf or manufacture or installation of replacement turf, and such costs are expressly disclaimed. IN NO EVENT SHALL THE OBLIGATIONS OF GREENFIELDS HEREUNDER EXCEED THE ORIGINAL PURCHASE PRICE RECEIVED BY GREENFIELDS FOR PRODUCTS WARRANTED HEREUNDER AND ACQUIRED BY END USER.

**3. Exclusions and Limitations on coverage.** This warranty does not apply: (i) if the product is used for any application other than a sports playing surface (i.e., football, lacrosse, hockey, soccer, rugby, baseball, handball); (ii) to any damage caused during or on account of improper processing, installation or repairs; (iii) to the extent that any defect or damage is caused by (any one or more of the following): (a) Burns, cuts, accidents, vandalism, abuse, negligence or neglect; (b) Improper design or failure of the sub-base of the sports field or court; (c) Wear or abrasion caused by an inadequate sub-base; (d) Use of infill products of an incorrect grade (according to FIFA accredited test institutes, such as ISA-Sport/ Labosport, or other test institutes accredited by Greenfields); (e) Failure to maintain infill products at the correct level (according to FIFA accredited test institutes, such as ISA-Sport/ Labosport, or other test institutes accredited by Greenfields); (f) Use of inappropriate footwear (e.g., metal cleats, spikes or similar projections other than conventional rubber knob cleats designed for football, soccer, or baseball) or other sports equipment, flat soled shoes; (g) The playing surface being used other than for the purpose for which it was designed and installed; (h) Use of cleaning chemicals, herbicides or pesticides; (i) Use of improper cleaning methods; (j) Use of infill made in whole or in part from volcanic ash, including, but not limited to Clinoptilolite zeolite; (k) Acts of God or other conditions beyond the reasonable control of Greenfields; (l) Post fibrillation after or during installation for purposes other than to get the infill materials in place; or (m) Failure to properly maintain, protect or repair the turf; (n) Inappropriate use of the product as described in maintenance manuals published by Greenfields; (o) Static or dynamic loads exceeding manufacturer specifications; (p) excessive use (more than 1700 playing hours and/or other approved use annually). All synthetic turf is subject to normal wear and tear. Normal wear and tear is not a manufacturing defect and is not covered by this warranty. In addition to the factors mentioned above, wear and tear depends on, without limitation, the construction of the synthetic turf (fiber face weight, stitch rate, fiber pile height and gauge) and the intensity of use of the synthetic turf; (q) if the product is maintained and/or repaired at any time by anyone other than a service company authorized by Greenfields to perform product repair and/or maintenance; (r) failure to maintain the field per any and all instructions contained in field maintenance manuals and/or other instructions published by GreenFields, regardless of whether maintained by a service company authorized by GreenFields to perform product repair and/or maintenance; (s) Use of any infill product that includes any chemical or chemicals (or is coated therewith) or that otherwise causes or contributes to any chemical reaction that damages the artificial turf yarn; and/or (iv) If the below purchaser fails to clearly and legibly log any and all maintenance, repairs, and/or other upkeep performed on the field by and/or at the behest of such purchaser and/or fails to produce such log for inspection upon request by GreenFields. Greenfields shall not be responsible for any warranty issued or made by Purchaser to third parties, including, without limitation, any warranty made by Purchaser with respect to useful life. Notwithstanding any other language herein to the contrary, this warranty does not apply to any damage to or failure of the products or other damages resulting, directly or indirectly, from acts of God or conditions beyond the reasonable control of Greenfields, including, without limitation, accidents, fire, misuses, negligence, improper installation, improper storage, modifications, alterations, tampering, vandalism or failure to properly maintain, protect or repair the Products.

**4. Limitation of liability.** IN NO EVENT SHALL GREENFIELDS BE LIABLE, WHETHER IN CONTRACT OR IN TORT (INCLUDING BUT NOT LIMITED TO NEGLIGENCE) OR UNDER ANY OTHER LEGAL THEORY (INCLUDING BUT NOT LIMITED TO STRICT LIABILITY), FOR BODILY INJURY, DEATH, LOST PROFITS OR REVENUES, LOSS OF USE OR SIMILAR ECONOMIC LOSS, OR FOR INDIRECT, SPECIAL, INCIDENTAL, CONSEQUENTIAL, PUNITIVE OR SIMILAR DAMAGES ARISING OUT OF OR IN CONNECTION WITH THE USE, CONDITION, POSSESSION, PERFORMANCE, MAINTENANCE, NON-DELIVERY OR LATE DELIVERY OF THE PRODUCTS, EVEN IF GREENFIELDS HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

**5. No Other Warranties.** THE WARRANTY PROVIDED HEREIN IS THE SOLE AND EXCLUSIVE WARRANTY WITH RESPECT TO GREENFIELDS PRODUCTS AND SUPERSEDES ANY AND ALL OTHER WARRANTIES, ORAL OR WRITTEN, OF ANY TYPE RELATING TO GREENFIELDS PRODUCTS. ANY PRODUCTS OF GREENFIELDS NOT COVERED BY THIS WARRANTY ARE SOLD "AS IS," WITHOUT WARRANTIES OF ANY KIND, INCLUDING, BUT NOT LIMITED TO, THOSE OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, AND/OR NON-INFRINGEMENT OF THIRD PARTY RIGHTS, AND GREENFIELDS HEREBY DISCLAIMS THE SAME. THE REMEDY OF CREDIT TOWARD A REPLACEMENT GREENEFIELDS

## MANUFACTURER'S LIMITED FIELD WARRANTY

PRODUCT OF EQUIVALENT GRADE SET FORTH IN SECTION 2 OF THIS LIMITED WARRANTY IS THE SOLE OBLIGATION OF GREENFIELDS, AND THE SOLE REMEDY OF PURCHASER, UNDER THE WARRANTY PROVIDED HEREIN. EXCEPT AS PROVIDED HEREIN, GREENFIELDS MAKES NO REPRESENTATIONS OR WARRANTIES OF ANY KIND, NATURE OR DESCRIPTION WITH RESPECT TO ANY OF ITS PRODUCTS, EXPRESS OR IMPLIED, INCLUDING, WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY, FITNESS OF ANY OF THE PRODUCTS FOR ANY PARTICULAR PURPOSE, AND/OR NON-INFRINGEMENT OF THIRD PARTY RIGHTS, AND GREENFIELDS HEREBY DISCLAIMS THE SAME.

**6. Notification of claims.** Notwithstanding any other language contained in this limited warranty to the contrary: This limited warranty is conditioned on Purchaser paying Greenfields's invoices for product when due and submitting the Certificate of Substantial Completion to Greenfields as validation of the installation within thirty (30) days of the installation. This limited warranty is further conditioned on Purchaser submitting a claim under this limited warranty in writing within 30 days of discovery of an alleged defect, such written claim including proof of sale and installation date, name and address of the end-user, roll numbers and/or panel numbers affected, copies of maintenance records, location of installation, product sample/fiber material, sample of infill material(s) and a minimum of three clear pictures showing the problem to: Greenfields USA, 4910 Jonesboro Road, Union City, GA 30291. Once the complete claim has been received by Greenfields, Greenfields shall be allowed a reasonable amount of time to respond to the claim, including time to inspect the Product and the alleged defect(s) at the installation site during reasonable business hours, and to conduct such tests as Greenfields in its discretion may deem necessary. Greenfields shall also be allowed a reasonable opportunity to cure any alleged defect(s). Greenfields shall not be responsible for any costs or expenses incurred by Purchaser or others with respect to any tests, inspections or consultations conducted by Purchaser or others. Greenfields shall be furnished copies of any and all written reports of any tests performed by the Purchaser and/or Owner. Said reports shall identify the name and address of the entity or individual that performed the tests made the basis of the reports. Purchaser must promptly inspect all Products upon delivery. Anything herein to the contrary notwithstanding, to the extent that any defects, shortages or non-conformities in the products are discoverable by inspection upon delivery of the products, all obligations of Greenfields to Purchaser with respect to such defects, shortages and non-conformities shall be deemed to be satisfied, and all products shall be deemed to be free of such defects, shortages and non-conformities, unless Purchaser notifies Greenfields of such defects, shortages or non-conformities in writing within 30 days after the date of delivery.

**7. Modifications.** This warranty, together with the Turf Sales Agreement for the project listed below, is the complete, final and exclusive agreement of the parties with respect to the quality and performance of the products and any and all representations and warranties concerning the products. No dealer, sales representative or similar person has the authority to make any representations or warranties with respect to the products, to extend any warranty period hereunder or otherwise to change, modify, amend or supplement the provisions of this warranty. None of the provisions of this warranty may be changed, modified, amended or supplemented except by a written instrument signed by an authorized representative of Greenfields. This warranty applies to all Greenfields products sold to Purchaser beginning on the date this warranty certificate is issued to Purchaser and continuing until Greenfields issues Purchaser a new warranty certificate signed by an authorized representative of Greenfields that expressly supersedes this warranty certificate in whole or in part. Any such new warranty certificate will be effective upon receipt by Purchaser. Purchaser's purchase of any Greenfields products following receipt of any new warranty certificate from Greenfields will constitute Purchaser's acceptance of the terms and conditions of such new warranty certificate.

**8. Waiver.** No failure on the part of Greenfields to exercise, and no delay by Greenfields in exercising any right, power or remedy hereunder shall operate as a waiver thereof, nor shall any single or partial exercise of any right, power or remedy by Greenfields preclude any other or further exercise thereof or the exercise of any other right, power or remedy.

**9. Governing law.** This warranty and the rights and obligations of the parties under this warranty shall be governed by the laws of the State of Georgia without regard to its conflicts of laws principles. Sales of products by Greenfields to Purchaser shall not be subject to the United Nations Convention on the International Sale of Goods.

**10. Severability.** If any provision or portion of any provision of this warranty shall be held to be illegal, invalid or unenforceable by a court of competent jurisdiction, the remaining provisions or portions thereof shall constitute the parties' agreement with respect to the subject matter hereof, and all such remaining provisions or portions thereof shall remain in full force and effect.

**11. Assignment.** Purchaser may not transfer, convey or otherwise assign all or any of its rights under this warranty without the prior written consent of Greenfields. Any such transfer or assignment by Purchaser without Greenfields's prior written consent shall be null and void and of no force or effect. This warranty shall inure to the benefit of and are binding upon Greenfields and Purchaser and their respective successors and permitted assigns. Claims under this warranty may only be made by Purchaser and not by Purchaser's customers or any other third parties.

**12. Effect.** Signature and return by an authorized representative of Greenfields is a condition precedent to this limited warranty taking effect.

Greenfields Reference:		Product Installed:	
Intended Use:		Substantial Completion Date:	
Purchaser/Warranty Holder:			
Address:			



**MANUFACTURER'S LIMITED FIELD WARRANTY**

<b>Field/Installation Name:</b>		<b>Field Size:</b>	
<b>Address:</b>			
<b>Owner/End-User:</b>			
<b>Address:</b>			

**POLYLOOM CORPORATION OF AMERICA D/B/A GREENFIELDS USA**

Signed: \_\_\_\_\_  
                    (Name & Title)

Date: \_\_\_\_\_