

PIVOT™ BY TENCATE



No Infill. No Microplastics. No PFAS.

Pivot™ by Tencate is a true game changer. Designed with extensive feedback from top-level athletes, Pivot™ by Tencate provides ultimate performance, maximum player comfort and ultra-durability.

The unique combination of yarns plays and responds like the best natural grass and will perform at Year 10 like it does on Day 1. Additionally, Pivot™ by TenCate is the environmentally-friendly choice – no infill is needed and real-grass feel is achieved without any resource intensive maintenance.

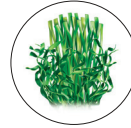


YARN

DENSITY (DENIER)	5,040/1 (XP+); 5,400/6 (semi-TXT); 7,200/10 (TXT)
THICKNESS (MICRONS)	100 (XP+); 152 (semi-TXT); 145 (TXT)
MELTING POINT	128° C 260° F
BREAKING STRENGTH	11 lbs/force (XP+); 20 lbs/force (semi-TXT); 20 lbs/force (TXT)
LEAD CONTENT (PPM)	<100



PILE CONTENT



BLEND OF DURABLE SLIT FILM AND SEMI-TEXTURIZED AND TEXTURIZED MONOFILAMENT FIBERS

TenCate XP+ U.V. resistant slit film, combined with TenCate semi-TXT and TXT monofilament root zone.

PRIMARY BACKING	7.5 oz/yd ² ; TenCate K29 Backing (Double Layer Thiobac, black, U.V. stabilized, Layer 1: 100% PP, Layer 2: PET/PP blend)
SECONDARY BACKING	20 oz/yd ² Polyurethane coating with drainage holes
TOTAL WEIGHT	147.5 oz/yd ²
PILE HEIGHT	1 1/2 inch
FACE WEIGHT*	120 oz/yd ²
MACHINE GAUGE	3/8 inch
SET UP	3 ends/needle
ROLL WIDTH	182 inch
WATER PERMEABILITY	64 inches/hour (unfilled)
TUFT BIND (ASTM D1335)	> 9 lbs
GRAB TEAR (ASTM D5034)	274 lbs length, 395 lbs width
PILL FLAMMABILITY (ASTM D2859)	Pass



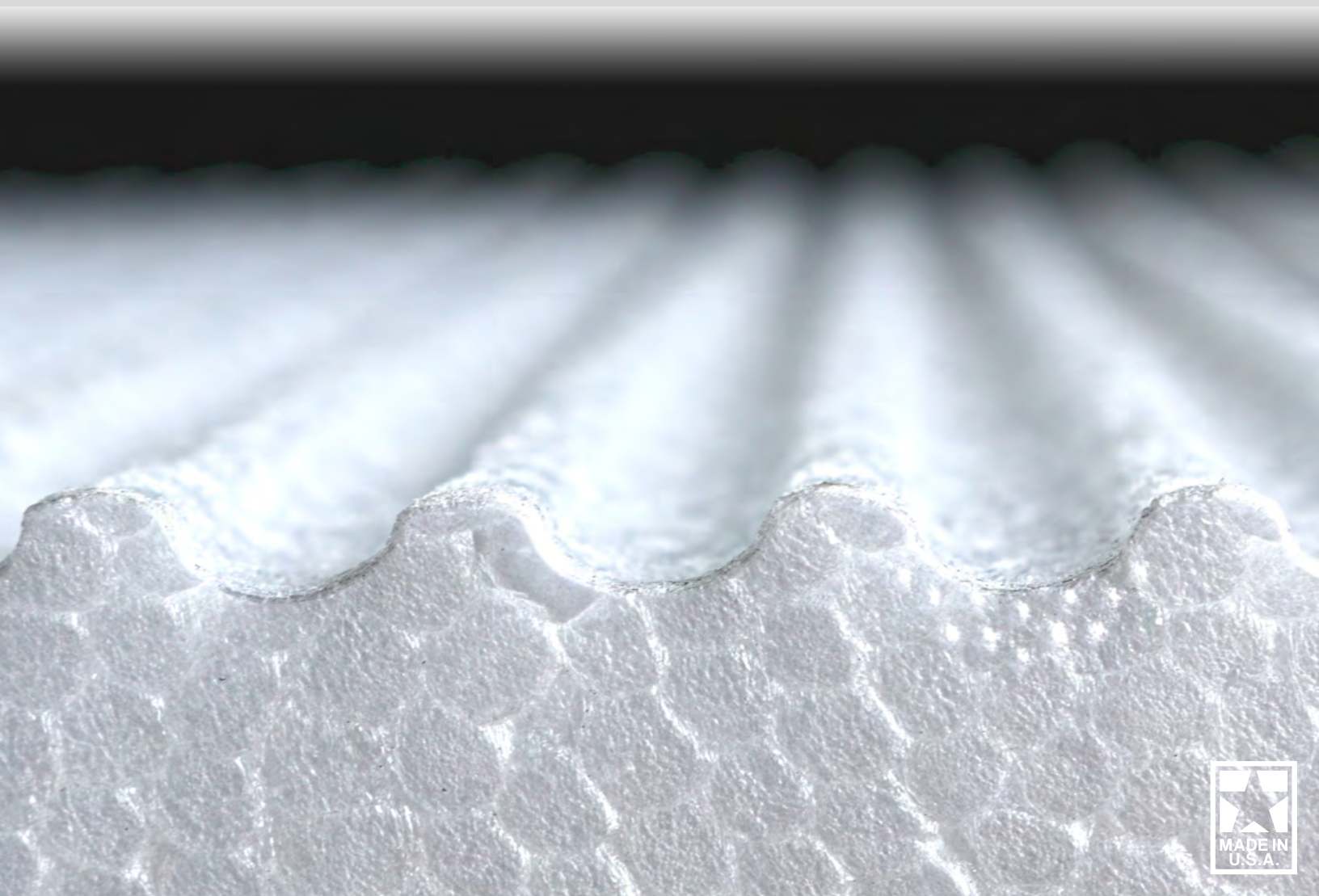
BEST FOR FOOTBALL, SOCCER, BASEBALL, INDOOR AND MULTI-PURPOSE FIELDS



Pile Height, Max Thickness, Face Weight, Primary & Secondary Backing, 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.

TenCate has the right to alter each product specification in order to improve the system according to the latest standards. TenCate is not legally liable in case of noncompliance 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.



DYNAMIC SHOCK PAD & DRAINAGE BLANKET

MaxFlo+ is a patented moisture conducting, non-absorbent, geo-composite shock pad made from polyolefin materials. MaxFlo+, available in both solid core and perforated core, is a pre-fabricated system that consists of a formed expanded polypropylene core. It is a highly resilient closed-cell expanded bead product, and is an ideal energy absorbing material for sport surfaces that requires impact protection and shock absorption. The use of MaxFlo+ greatly reduces risk factors associated with poor subsurface soils.

Installation provides an uninterrupted vertical-to-horizontal flow path for superior rainfall evacuation and enhanced G-MAX performance without changing the ball-action or feel under-foot. The integrity of the systems expansion and contraction capabilities is maintained by the use of the GeoClip™ system which holds the MaxFlo+ in place during the installation of the turf system. The GeoClip also decreases the risk of wind negatively impacting the installation process. The GeoClip allows each individual pad to naturally react to changing temperature and humidity conditions while assuring the turf installation team is able to perform on a secure monolithic work surface. The proper installation of the MaxFlo+ system reduces G-MAX by up to 50 points.

PHYSICAL PROPERTIES	TEST METHOD	SAE	DATA
Tensile Strength	ASTM-D3575	psi	55.5
Tensile Elongation	ASTM-D3575	%	18
Tear Strength	ASTM-D3575	lbs/ft	13
Thermal Conductivity (K)	ASTM-C177	BTU-in/ft ² -hr-°F	0.25
Thermal Resistance (R)	ASTM-C177	@70°F	3.9
Coeff. of Lin. Therman Expansion	ASTM-D696	in/in/°F x 10 ⁻⁵	5.7
Service Temperature	ASTM-D3575	°F (Max)	212
Water Absopton	ASTM-D3575/C272	%	<5.0
Compressive Creep	ASTM-D3575	% (psi)	1.2(2.0)
Flammability	FMVSS-302	<4.0in/min	Pass



PLEASE NOTE: For standard Tencate Products, the values shown are typical and could have a manufacturing variance of +/- 10%. This product data should not be construed as specification limits.

PROPERTIES

MaxFlo+ is multi-directional (isotropic) in nature, so unlike traditional extruded products, which yield different properties along the extrusion, vertical and horizontal axis, the properties of the MaxFlo+ products are the same for a given density along all 3 axis, regardless of orientation.

RESILIENT POLYPROPYLENE SHOCK PAD

Nominal Size: 4' x 6' / Thickness Options: 15 mm, 20 mm, 25 mm
 Horizontal Drainage: 50" per Hour Minimum
 Vertical Drainage: 100" per Hour Minimum (On Perforated Core)
 Maximum Initial G-MAX Less than 135

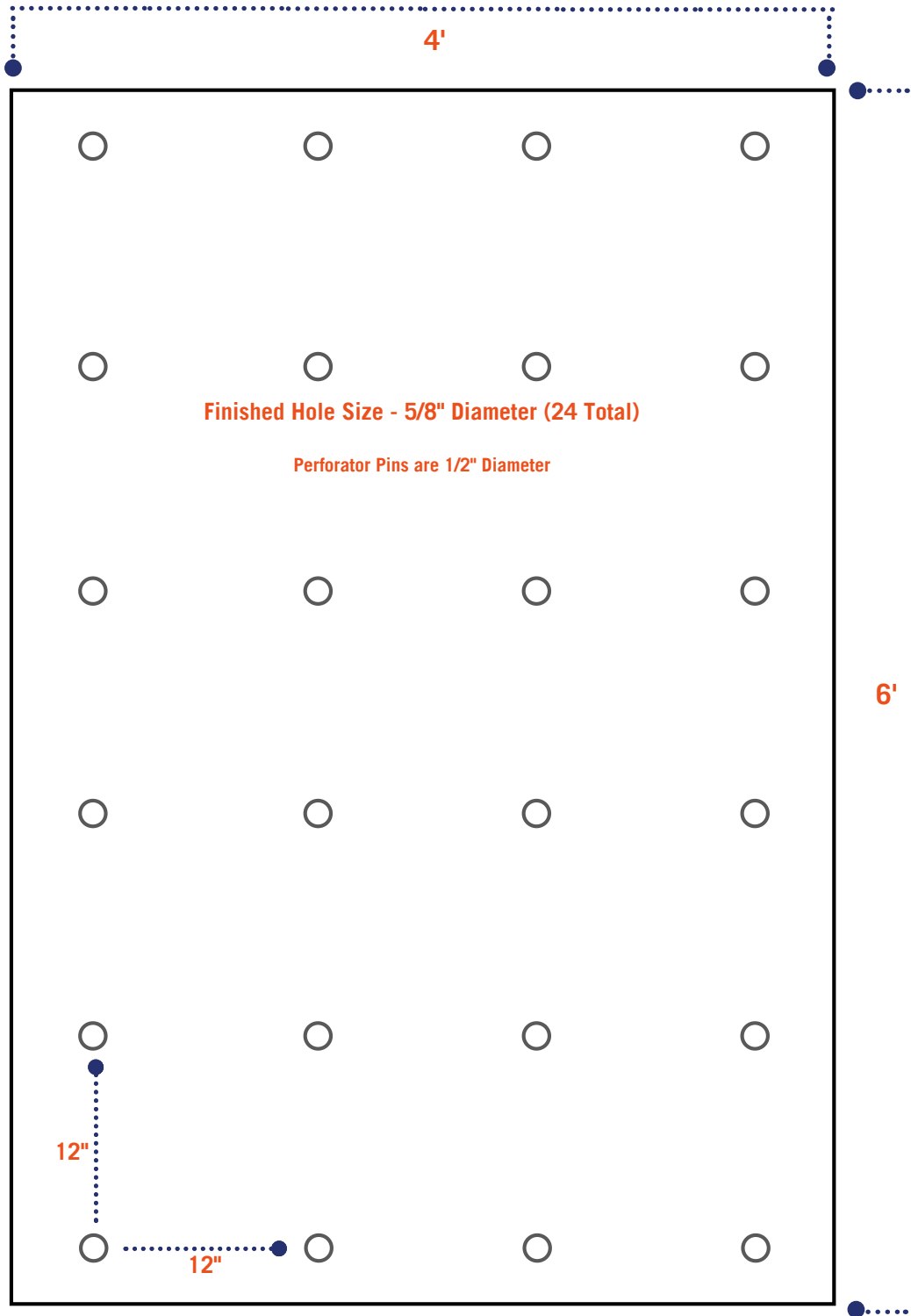
SAFETY FEATURES

Guaranteed Maximum G-Max of field of 135 during 8-year warranty period of turf (ASTM F355 or ASTM 1936) as a system test with infill.

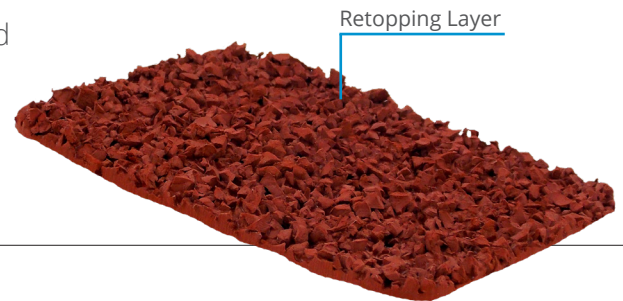
Guaranteed 1.3 HIC rating during 8-year warranty period of turf (ASTM F355-16e1) as a system test with infill.

RESISTANCE

Flammability Resistance TEST FMVSS-302: Pass
 Fuel Immersion Test Coast Guard (Fuel B): Pass
 Chemical Resistance (1 Hour Exposure to Solvents): Pass



The Stobitan® Full Pour RSS resurfacing running track system is a synthetic surface of 3-5 mm thickness, and suitable for all levels of competition. The system consists of multiple applications of flood and chip layers consisting of polyurethane and like-colored EPDM rubber granules to produce a textured surface. The Stobitan® Full Pour RSS system fully meets the performance requirements of NFHS and NCAA.



Installation of Stobitan® Full Pour RSS Surfacing

A. Primer - All existing surfacing is primed using 50/50 mixture of Stobielast® 135.00 + and low polar solvent such as aromatic 100 (1:1 w/w). Application rate is approximately 0.18 lbs/sy. Only the area to be covered within the working day should be primed to ensure a good bond to the existing surface.

B. Retopping Layer - One application of double mixed Stobielast® 154.XX polyurethane coating at approximately 6.65 lbs/sy is applied on top of the existing layer with a notched squeegee. After the material has self-leveled and is still liquid, colored 1-3.5 mm EPDM rubber granules are broadcast into the surface to excess. After curing (hardening), the excess colored EPDM granules are removed. Approximately 7.0 lbs/sy of EPDM should remain in the colored polyurethane.

C. All methods for mixing of products are to be approved by STOCKMEIER Urethanes USA, Inc. and can be found on their Stobielast® Technical Data Sheet (TDS).

System Benefits

- Spike Resistant
- Granulated Finish Provides a Soft, Comfortable Surface
- Various Colors Available

Line Markings

A. All line marking paint is to be approved by the synthetic surfacing manufacturer.

B. All markings will be in accordance to the desires of the owner.

MANUFACTURER'S LIMITED WARRANTY 12 YEARS
NON-PRORATED TENCATE TUFTED TURF
PIVOT NON-INFILL

1. **Limited warranty.** Subject to the terms, conditions and limitations contained in this Limited Warranty, TenCate ("TenCate") warrants to the person, firm or entity indicated on the signature page hereof ("Purchaser"): That under normal, ordinary use the TenCate Pivot Non-Infill tufted turf product Purchaser acquired ("Product") will, for the Relevant Period as determined in Table A from the Substantial Completion Date, (1) be free from defects in material and workmanship and (2) with respect to the yarn component thereof, maintain UV-stability. The yarn component of the TenCate tufted turf Products acquired by Purchaser will be deemed to have maintained its UV-stability if (i) the original tensile strength of the Product does not decrease by more than fifty percent or (ii) the tuft bind strength is not less than 6 lbs/force during such normal and ordinary use for the identified applications herein. This warranty is only valid for the original installation pursuant to the terms and conditions herein. 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 TenCate 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 TenCate of such defects, shortages, or non-conformities in writing within 30 days after the date of delivery.

2. **Remedy.** As Purchaser's sole and exclusive remedy should the Product fail to perform as warranted above, TenCate will, at its discretion, provide sufficient product to either replace (i) the affected area or (ii) the full field. If TenCate no longer offers the original Product, it will provide one of equivalent grade as that warranted hereunder. Replacement of Product shall not extend the Relevant Period. This Limited Warranty and the foregoing exclusive remedy do not include any costs associated with removal or disposal of defective product or the installation of replacement product and such costs are expressly disclaimed. IN NO EVENT SHALL THE OBLIGATIONS OF TENCATE HEREUNDER EXCEED THE ORIGINAL PURCHASE PRICE RECEIVED BY TENCATE FOR PRODUCTS WARRANTED HEREUNDER AND ACQUIRED BY PURCHASER.

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, softball, etc.) and the listed Intended Use; (ii) to any damage caused during or on account of improper processing, installation, or repair; and/or (iii) to the extent that any defect or damage is caused by: (a) Burns, cuts, accidents, vandalism, abuse, negligence, or neglect; (b) Improper design, type, or failure of the sub-base of the sports field or court; (c) Wear or abrasion caused by an inadequate or improper sub-base; (d) Use of infill products of an incorrect grade (according to accredited test institutes, such as ISA-Sport/Labosport, or other test institutes accredited by TenCate) or containing chemicals that cause or contribute to any chemical reaction that damages the yarn (such as, without limitation infill made in whole or in part from volcanic ash, including, but not limited to Clinoptilolite zeolite); (e) Use of inappropriate footwear (e.g., metal cleats, spikes or similar projections other than conventional rubber knob cleats designed for football, soccer, or baseball), flat soled shoes, or other sports equipment; (f) The playing surface being used other than for the purpose for which it was designed and installed; (g) Use of chemicals (including unapproved cleaning agents), herbicides or pesticides that cause a chemical reaction detrimental to the Product; (h) Use of improper cleaning methods; (i) Acts of God or other conditions beyond the reasonable control of TenCate (including, without limitation, accident, flood, fire, misuse, negligence, improper installation, improper storage, modification, alteration, tampering, vandalism); (j) Post fibrillation after or during installation for purposes other than to get the infill materials in place; (k) Failure to properly maintain, protect or repair the turf in accordance with the most recent TenCate Maintenance Manual applicable to the Product; (l) Inappropriate use of the Product as described in maintenance manuals published by TenCate; (m) Static or dynamic loads exceeding manufacturer specifications; (n) Normal or expected wear and tear (all synthetic turf is subject to normal or expected wear and tear. Normal or expected 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). (iv) if the Product is maintained and/or repaired at any time by anyone other than a service company authorized by TenCate to perform Product repair and/or maintenance and/or (v) if the Purchaser fails to clearly and legibly log all use, maintenance, repairs, and/or other upkeep performed on the field and fails to produce the log for inspection by TenCate upon request. (vi) Failure to adhere to Tencate approved installation techniques and approved installation materials will void warranty coverage. This Warranty does not cover wear in batters boxes, catchers boxes, around bases, down base paths and on artificial mounds; fiber loss less than 50% of total field mass; or Metal or steel spike damage to any portion of the turf. Field use of any type prior to signed certificate of completion will void the warranty. TenCate shall not be responsible for any warranty issued or made by any other person to third parties, including, without limitation, any warranty with respect to useful life..

4. **Limitation of liability.** IN NO EVENT SHALL TENCATE 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 TENCATE 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 THE SPECIFIED TENCATE PRODUCTS AND SUPERSEDES ANY AND ALL OTHER WARRANTIES, ORAL OR WRITTEN, OF ANY TYPE RELATING TO THOSE TENCATE PRODUCTS. ANY PRODUCTS OF TENCATE 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 TENCATE HEREBY DISCLAIMS THE SAME. THE REMEDY OF REPLACEMENT SET FORTH IN SECTION 2 OF THIS LIMITED WARRANTY IS THE SOLE OBLIGATION OF TENCATE, AND THE SOLE REMEDY OF PURCHASER, UNDER THIS WARRANTY. EXCEPT AS SPECIFICALLY PROVIDED HEREIN, TENCATE 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 TENCATE HEREBY DISCLAIMS THE SAME.

6. **Notification of claims.** Notwithstanding any other language contained in this limited warranty to the contrary: TenCate's obligations under this warranty are conditioned on full payment of TenCate's invoices for Product when due and submission of the Certificate of Substantial Completion to TenCate pursuant to Section 12 as validation of the installation within thirty (30) days of the installation to: Warranty Dept., TenCate, 1131 Broadway St., Dayton, TN 37321. This limited warranty is further conditioned on Purchaser submitting a claim under this 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: Warranty Dept., TenCate, 1131 Broadway St., Dayton, TN 37321. Once the complete claim has been received by TenCate, TenCate 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 TenCate in its discretion may deem necessary. TenCate shall also be allowed a reasonable opportunity to cure any alleged defect(s). TenCate 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. TenCate shall be furnished copies of any and all written reports of any tests performed by or for 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.

7. **Modifications.** This warranty, together with the 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. In the event of a conflict between this warranty and the Sales Agreement, this warranty shall prevail. No one has the authority to make any representations or warranties with respect to the Products, to extend any Relevant 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 TenCate. This warranty applies to the TenCate Product identified herein and sold to Purchaser.

8. **Waiver.** No failure on the part of TenCate to exercise, and no delay by TenCate 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 TenCate 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 Tennessee without regard to its conflicts of laws principles. Sales of products by TenCate 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 Product shall be deemed sold AS IS and the remaining provisions or portions thereof shall remain in full force and effect and 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 TenCate. Any such transfer or assignment by Purchaser without TenCate's prior written consent shall void this warranty. This warranty shall inure to the benefit of and be binding upon TenCate 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 TenCate is a condition precedent to this limited warranty taking effect.

TenCate Reference:		Product Installed:	
Intended Use:		Substantial Completion Date:	

Purchaser/Warranty Holder:	
Address:	

Field/Installation Name:		Field Size:	
Address:			

Owner/End-User:	
Address:	

Installation Company:	
Installer:	

TENCATE

Signed: _____
 (Name & Title)

Date: _____

Table A

Field Size (in square feet)	Relevant Period (years)	Prorated
< 10,000	1	No
10,000 - 19,999	2	No
20,000 - 29,999	4	No
30,000 - 39,999	6	No
40,000-79,999	10	No
> 80,000	12	No

Products Covered by Warranty
Pivot