



MAXIMUM PLAYABILITY FOR
THE ULTIMATE SOFTBALL EXPERIENCE

B1K
BATTING A THOUSAND

truhop

shaw
SPORTS TURF

SOFTBALL

IT'S NOT HOW GOOD YOU ARE,
IT'S HOW BAD YOU WANT IT.

OUTPLAY.
OUTWORK.
OUTLAST.

IT'S TIME FOR TURF

Thanks to Shaw Sports Turf's revolutionary synthetic turf system designed to the specific needs of softball, the game surface is evolving. Artificial isn't a forgotten option anymore. B1K: Batting A Thousand ushers in a new generation of turf and along with it the next level of playability. Now really, let's play ball.

For this purist game, the approach is different than other sports. Each area of the field is meant to have different playability characteristics. At Shaw Sports Turf we have dedicated ourselves to researching high-end fields and how athletes perform on them to develop artificial turf systems that play true in all areas of the field.

LEADING THE LINEUP

Shaw Sports Turf is the ONLY company in the synthetic turf industry with over 7 years of research and collecting data specific to our softball systems. Focusing on athlete, surface, and game science, we design fields that not only play like natural, but play like the surface the game should be played on.

PROFESSIONAL PARTNERS



COMMITMENT TO RESEARCH
THE NUMBERS DON'T LIE

SHAW

14,700HOURS > **367.5**WEEKS

OTHERS

300HOURS > **7.5**WEEKS

Shaw Sports Turf's competitors in the industry tout 300 hours of research. That amounts to only 7.5 dedicated weeks of softball research which pales in comparison to Shaw Sports Turf's years of testing and analysis. The over 4,200 hours dedicated to B1K development and over 10,500 hours dedicated to softball specific research illustrates Shaw Sports Turf's commitment to excellence.



ATHLETE PERFORMANCE

Playability isn't just about the surface alone; it's also about an athlete's interactions with it while performing the movements required by sport. Working with our university research partners, we were able to study those very movements in detail. For the benefit of the player, the surface should provide less energy rebound and less leg stiffness.

OTHER ARTIFICIAL SYSTEMS

**MORE REACTIVE STATE GUESSING
THE BOUNCE OF THE BALL**

LESS SURFACE CONFIDENCE

**MORE TENSION/ADJUSTMENTS REQUIRED
IN POSTURE (FEET/LEGS)**

B1K

**MORE PROACTIVE STATE APPROACHING
THE BALL**

MORE SURFACE CONFIDENCE

**MORE NATURAL POSTURE & LESS
TENSION IN LEGS**

Playing on a surface tailored for softball promotes more natural play. A more consistent ball bounce allows players to field hits more naturally while a firmer surface minimizes fatigue and soreness.



KEY FACTOR:

ENERGY REBOUND



ENERGY REBOUND

The key component found was energy rebound, or the amount of energy return from the surface upon impact, is a factor in performance. Not only does it affect the angles and trajectory of the ball based on surface type, the amount of energy rebound factors into an athlete's confidence of step. The quicker and easier it is for the body to find a balance, the better the athlete performs.

THE AUBURN STUDY

Auburn University conducted a study to measure the influence of turf surface on change of direction parameters. The result of this study indicated participants adopted a different stopping strategy on the natural surface than the artificial surfaces. To mitigate the lower resistance to shear forces offered by natural grass, the participants adopted a more upright body position, presumably increasing the normal force as well as the friction utilized at the foot-to-ground interface. Assuming adequate friction is maintained, a smaller SHAng (angle between sacrum, heel and ground) and thus lower body position will provide for an increase in propulsive forces resulting in a faster change in direction and better performance outcome.

PLAYABILITY ENVIRONMENT ATHLETE KINETICS

P.E.A.K. PERFORMANCE LAB



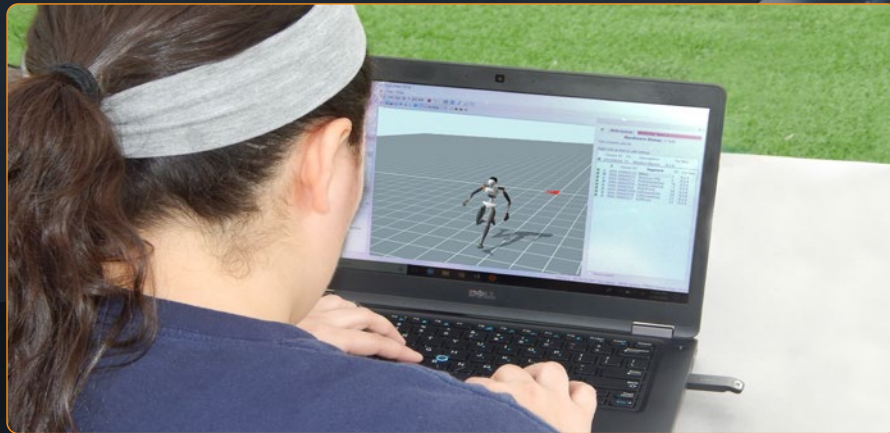
PEAK
PERFORMANCE LABS

SHAW SPORTS TURF LEADS THE SYNTHETIC TURF INDUSTRY

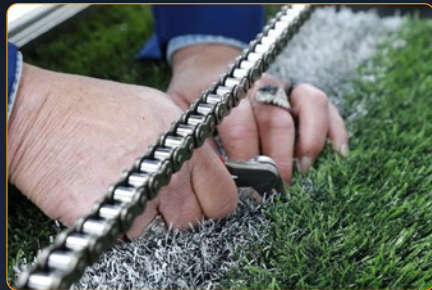
in research and development and bringing innovation to the market. With testing protocols and procedures that exceed those of even the most stringent independent labs, the Research and Development Center at Shaw Sports Turf is at the forefront of advancement.

We study playability and environmental influences to create the ultimate sports and landscape turf applications. While also studying Athlete-to-Surface interaction through human kinetics to provide elite turf systems designed with the athlete in mind.





Reviewing Athlete Testing



Tuft Bind



Athlete Testing Sensors



Grab Tear



Lisport



Infiltrometer device to test drainage capabilities

HEAD-TO-TOE ATHLETE APPROACH

SHAW SPORTS TURF DESIGNS BALANCED SYSTEMS THAT SUPPORT THE ATHLETE FROM HEAD TO TOE.

ALL OF OUR SYSTEMS ARE DESIGNED AROUND SEVEN CRITICAL PERFORMANCE TESTS.



7%

OF INJURIES ARE
IMPACT RELATED
AND AFFECT
THE HEAD.*

OVER

50%

OF INJURIES ARE
STABILITY RELATED
AND AFFECT THE
LOWER EXTREMITIES.

INJURY DATA OBTAINED FROM: Biocore NFL study on Injury
Distribution published in the Wall Street Journal • NCAA
Football Injury study produced by Datalys Center for Sport Injury
Research and Prevention

*Head injury statistics include player-to-player and player-to-surface. It is commonly accepted that 1 in 4 of these injuries are player-to-surface.



IMPACT

HIC

Head Injury Criterion.
Measures the likelihood of
head injury arising from an
impact with the surface.

GMAX

Measures high impact
interaction between the
athlete and the surface.

STABILITY

ROTATIONAL TRACTION

Measures the torque required
to rotate a set of cleats
through a 90 degree turn
through the surface.

SHEAR VANE

Measures how stable the
field is to resist shearing
from movements by players.

REBOUND

FORCE REDUCTION



Measures the amount of the
impact force that is transferred
to the athlete compared to
running on concrete.

VERTICAL DEFORMATION



Measures how stable the
field is to resist shearing from
movements by players.

ENERGY REBOUND



Uses the artificial athlete and the
same peak loading that is used
for the vertical deformation and
force reduction tests.

WHAT THEY ARE SAYING



"We've gotten rave reviews from our players on the turf," Derek Jeter, CEO Miami Marlins said.
"This turf is a lot different than the artificial surfaces that I've played on. When I was playing, I didn't particularly like the artificial surfaces. But this is as close to grass as you can possibly get."

Derek Jeter, Former CEO, Miami Marlins



"We are thrilled to have a Shaw surface on this field. We were deciding whether to put a natural grass surface in or consider a synthetic surface. We went to all of the manufacturers on the synthetic side and said, 'We aren't even going to consider this unless you can deliver to us the best playing surface in Major League Softball.' Shaw's commitment to research and development specific to softball have been second-to-none."

Rob Matwick, EVP of Business Operations, Texas Rangers



"The challenges with growing natural grass in our climate and stadium have been well documented and we have considered alternate solutions for many years. We decided to make this change because the technology developed by Shaw is the best in existence and will provide a consistent playing surface and benefits to our players on the field while enhancing our fan experience throughout the ballpark."

Derrick Hall, CEO, Arizona Diamondbacks

B1K: A PRODUCT OF THE RESEARCH RESULTS

SKINS

SIX4THREE/TRUHOP

using a sturdy fiber construction for added durability around the bases, a product that mimics the characteristics of clay

WARNING TRACK

TRUTRACK

a solution that can be heard & felt when approaching the wall

OUTFIELD

TAG UP/TAG UP PRO

a hybrid product with a natural, well-manicured aesthetic



B1K MULTI-USE

Some fields see a tremendous amount of play and you need a work-horse system built to stand up to extreme levels of use without sacrificing playability for your athletes. B1K Multi-use does just that. The system outlined in the chart gives ultimate flexibility for many different sports and other uses, as well as delivers on high-level playability for the athlete.

Workhorse

SYSTEM	B1K MULTI-USE
CLAY	TRUHOP 1.75"
GRASS	TAG UP 2.0"
WARNING TRACK	TRUTRACK 2.0"
INFILL	SAND/RUBBER
PAD	NO



B1K TRUHOP

B1K Truhop has been designed similar to our elite B1K systems that can be found in professional stadiums across the country. This system has been optimized to provide a practical investment for the organization as well as high-level playability for the athlete.

Everyday Softball Specific

SYSTEM	B1K TRUHOP
CLAY	TRUHOP 1.5"
GRASS	TAG UP 1.75"
WARNING TRACK	TRUTRACK 1.625"
INFILL	SAND/RUBBER
PAD	NO



B1K DOUBLE PLAY

B1K Double Play is an ultra-premium system designed for all levels of play. This system features a pad and is designed specifically for softball boasting a true bounce and less lower extremity fatigue with the addition of a high-performance shock pad. This system can stand up to an extreme amount of play and is a great option for venues and teams looking to up their game.

Premium Pad System

SYSTEM	B1K DOUBLE PLAY
CLAY	SIX4THREE 1.625"
GRASS	TAG UP PRO 1.75"
WARNING TRACK	TRUTRACK 1.625"
INFILL	SAND/RUBBER
PAD	YES



B1K NATURAL

B1K Natural is the top-of-the-line system designed for all levels. This system features a pad and natural infill, is designed to be the closest to a high-end natural grass surface, boasts the truest bounce and less lower extremity fatigue, can be tuned to play faster or slower based on the team's preference and is highly adaptable for even the highest levels of play.

Super Premium

SYSTEM	B1K NATURAL
CLAY	SIX4THREE 1.625"
GRASS	TAG UP PRO 2.0"
WARNING TRACK	TRUTRACK 1.625"
INFILL	NATURAL
PAD	YES

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3/2025

