

THE PLANNING BEGINS



“What is **really important** in a playground surfacing system?”

“How do we choose the **right solution** for us?”

“Will it be **safe & durable**?”

“How much **maintenance** will be required?”

“How do we make sure that we get as much **value** as possible from our surface?”

At SofSURFACES, we recognize the significant investment that a new playground represents. Whether you're an owner, specifier or committee member evaluating safety surfacing options can become a daunting task.

In the following pages, we will guide you through the various steps involved in evaluating a playground safety surfacing system. **Durability, consistency, value, and safety** are chief among the topics we will explore. Along the way, we hope to offer some insight into the principles that have transformed SofSURFACES into the world's leading manufacturer of playground safety surfacing systems.

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WHAT IS

SofTILE

KrosLOCK®

SofTILE is an exceptionally durable safety surfacing system that locks in place, is vandal resistant, class 'A' fire rated, and provides fall protection ratings that exceed national safety standards by up to 60%.*

**Certified independent test reports available upon request.*



SofTILE has been engineered with specific features designed to directly address issues associated with excessive maintenance, premature wear, and noncompliance with safety standards.

SofTILE carries the industry's only 10 year warranty for structural integrity and guaranteed compliance to the ASTM F1292-04 fall protection standard.

The success of the SofTILE KrosLOCK brand has been rooted in its ability to offer lower total cost of ownership, while reducing liability concerns through strict performance benchmarks for impact attenuation.

With distribution channels in every major metropolitan area of the country, SofSURFACES guarantees prompt regional service from one of our preauthorized playground industry professionals.



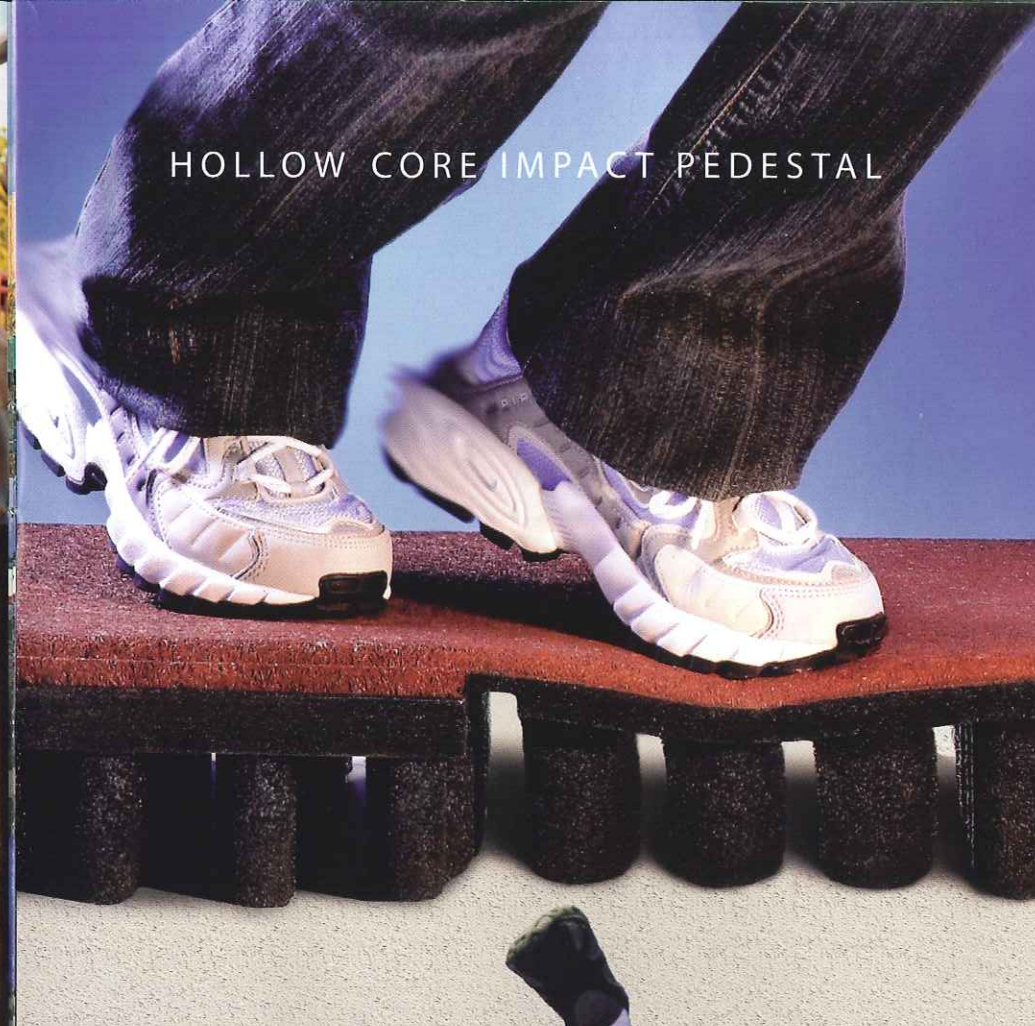
INTRODUCING THE INDUSTRY'S FIRST AND ONLY.

10 YEAR

WARRANTY
Materials & Workmanship
INCLUDING
Impact Attenuation
to ASTM F1292

SAFETY

Each year over 200,000 children are sent to the emergency room for playground related injuries. Nearly eighty percent of these injuries are directly related to falls to the surface.



HOLLOW CORE IMPACT PEDESTAL



SofTILE'S precisely engineered hollow core impact pedestal has been specifically designed to absorb the impact of a fall through mechanical recoil action. By engineering a thin hollow core pedestal into the underside of the SofTILE design, we have ensured that the cushioning properties of the system will remain consistent after years of continual use. SofTILE's hollow core impact pedestal is a design breakthrough that is unique to the SofTILE family of surfacing systems.

At SofSURFACES, we have a responsibility to protect our customers and the millions of children who play on our surfaces everyday. Simply put, safety is the foundation from which all else follows as we utilize the latest in technology and design engineering to create safer, stronger, and more secure surfacing solutions.

Research conducted by the California EPA found that 69% of the synthetic playground surfaces included within their study failed to meet the impact attenuation standards.

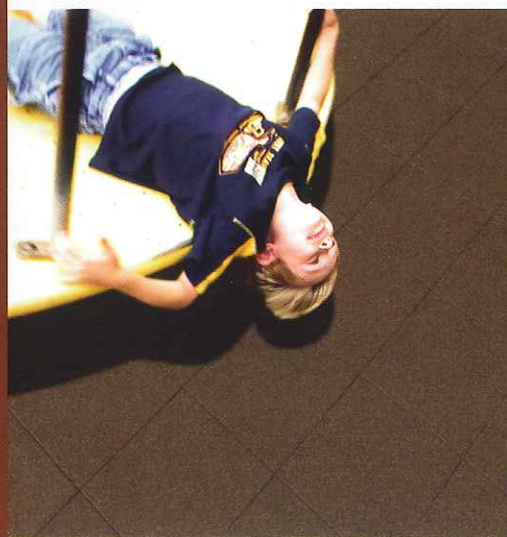
The safety performance of a playground surfacing system can diminish as a result of aging, heavy use, UV exposure, temperature extremes, and contamination with sand and dirt?

DID YOU KNOW

The SofTILE system has been engineered and tested to consistently perform a minimum of 40% better than safety regulations require? That's a minimum 40% safety margin built into the product for your long-term peace of mind.



DURABILITY & RESILIENCY



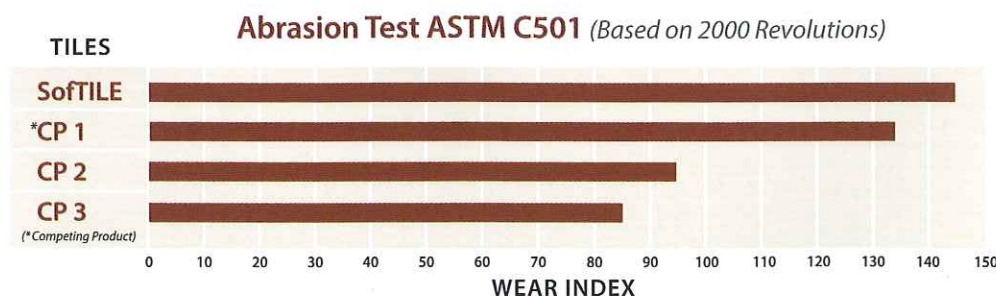
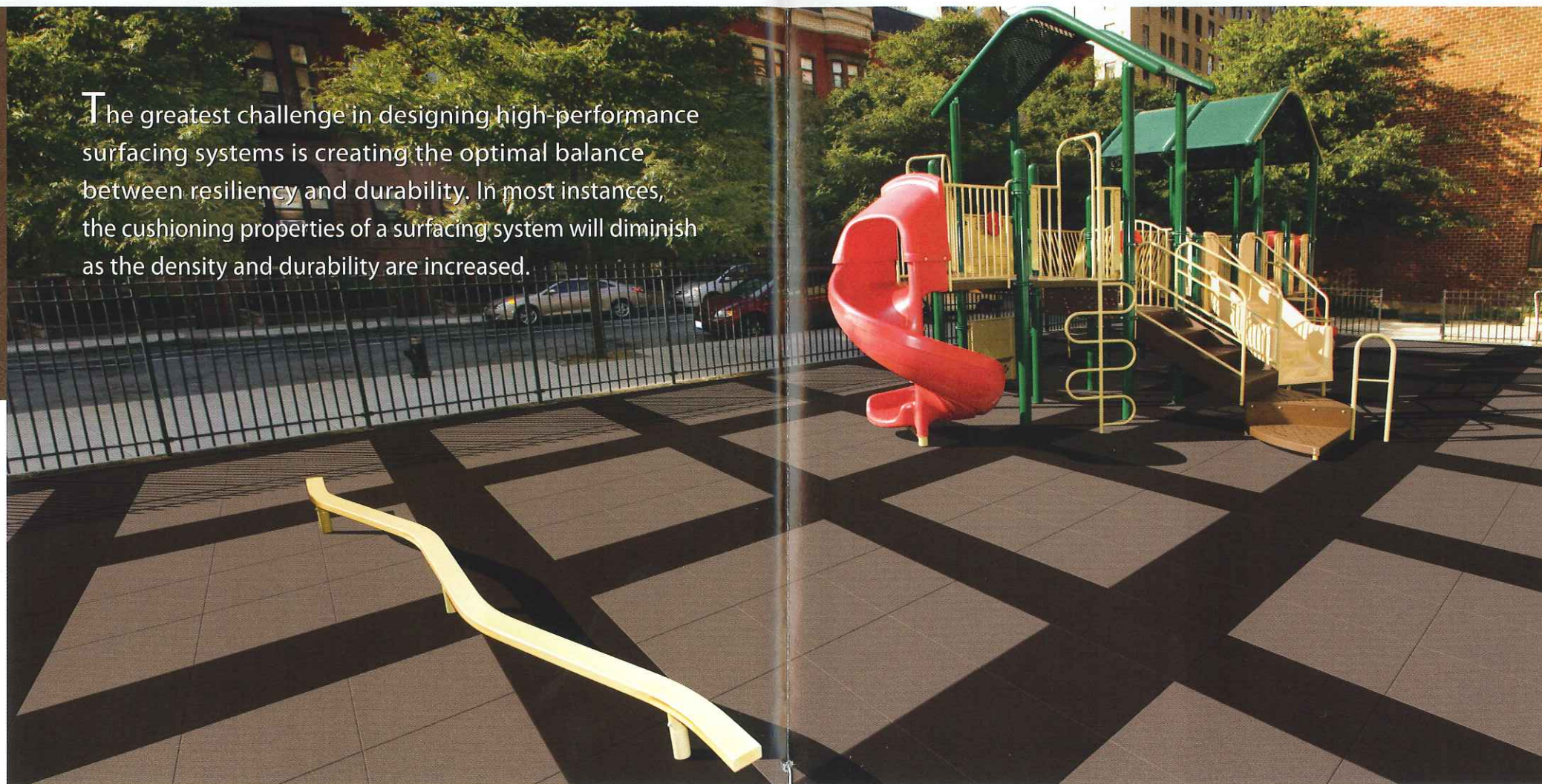
SofTILE is manufactured using a three-stage compression molding process that provides a level of durability far greater than traditional poured-in-place surfaces.

The engineered design of the hollow-core pedestal provides a means of increasing the density of SofTILE's wear layer without compromising fall protection.

By utilizing the latest in instrumentation, process analytics, and control technology, every aspect of the manufacturing process is closely monitored and tightly controlled within the framework of ISO 9001:2008 standards.

The end result is a product that is extremely durable, yet provides fall protection ratings that are unmatched in the industry.

The greatest challenge in designing high-performance surfacing systems is creating the optimal balance between resiliency and durability. In most instances, the cushioning properties of a surfacing system will diminish as the density and durability are increased.



SofTILE was tested to over 400,000 repeated impacts with an 800 pound force and rates higher than the top three tile products in comparative abrasion resistance testing.

SECURE SOLUTIONS

SofSURFACES' unique patented locking systems have been the cornerstone of our product line for nearly 20 years.

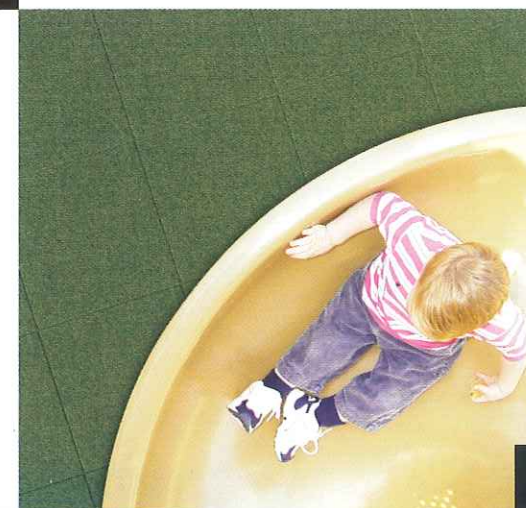
Over the past two decades, continual advancements in our locking design technology has provided our customers with solutions to the inherent challenges associated with most modular surfacing systems.

SofTILE KrosLOCK represents the latest in locking design technology. When installed according to the manufacturer's specification, you can be assured that your surface will remain fixed, functional, and vandal resistant throughout the system's life cycle.

Competing tile systems lack a sophisticated locking mechanism, which can result in shifting, seam separation, curling, and vandalism.



Internal testing has demonstrated that the KrosLOCK design will withstand up to 2000 pounds of pull force before demonstrating locking system failure.



Best Value

PLUS Series

The SoftTILE Plus Series is manufactured exclusively with recycled materials. Color offerings are created by utilizing a specially formulated pigmentation process. Recent additions to our color offerings have quickly made the Plus Series a customer favorite. By offering value in the ability to create colorful playgrounds at an economical price, the SoftTILE Plus Series is ideally suited for tough, urban environments where safety, durability, and vandal-resistance are the primary surfacing considerations.



Alternate Color Combinations

Visit our Interactive Design Center at
www.sofsurfaces.com
for more creative pattern and color
combinations.

NEW FOR 2010

Saddle Brown



Slate Grey



Harvest Tan



Ocean Blue



Turf Green



Terra Cotta



Midnight Black



PREMIUM Series

Introducing "In-Play" Colored Granules

NEW FOR 2010

SofSURFACES is pleased to announce the incorporation of a new polymer technology into our Premium Series line of products. "In-Play" is a colored granule designed and manufactured as a superior alternative to the traditional EPDM polymers used in the manufacture of playground surfacing.

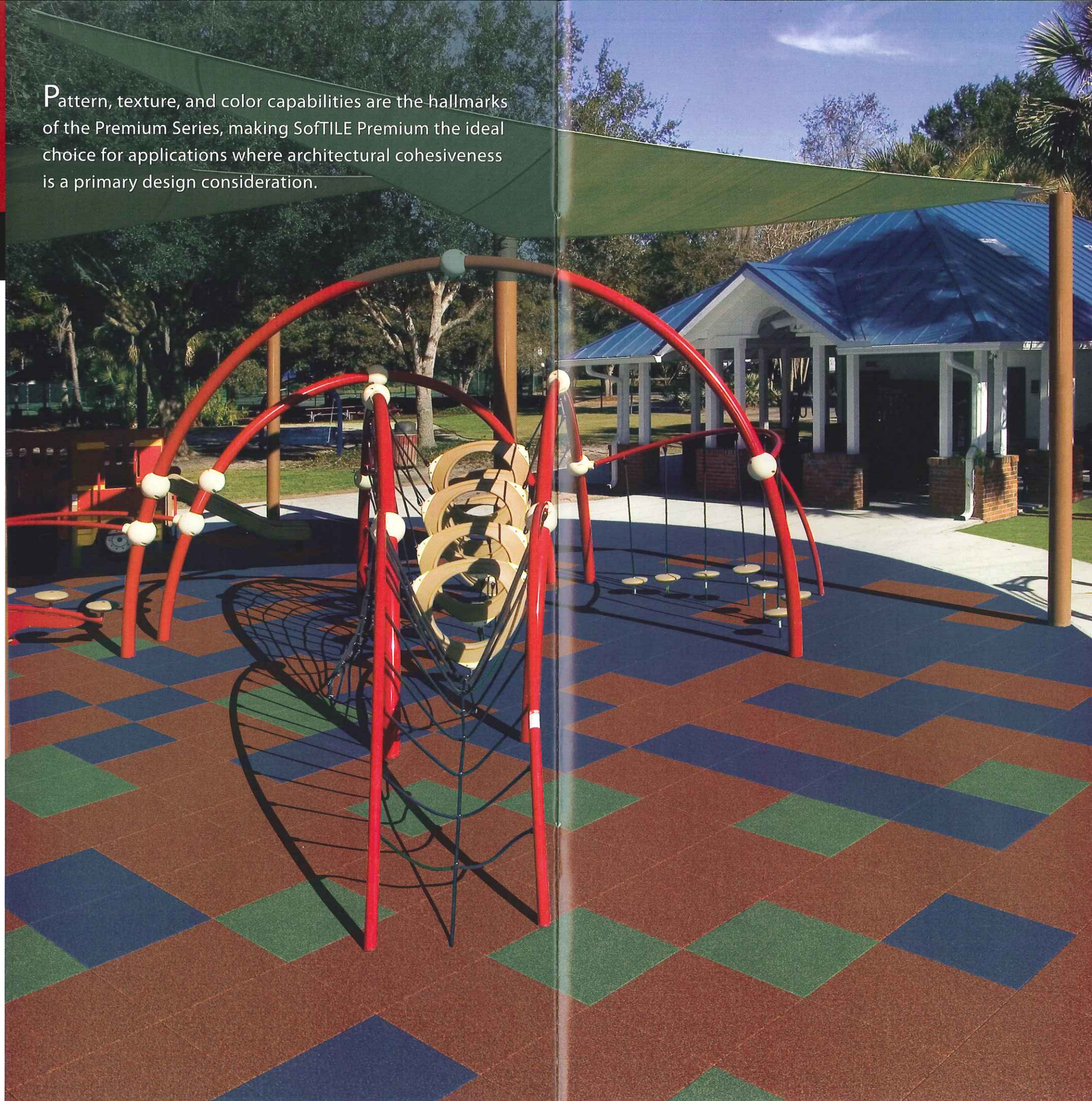
In-Play is produced from a high-grade polymer that is free of lead, zinc, sulfur, polyaromatic hydrocarbons, heavy metals, and phthalates. When compared to the EPDM polymers used in most playground surfacing, In-Play exhibits superior abrasion resistance and color retention, and most importantly, In-Play will not become brittle with age.

In-Play Vs. EPDM



Typical fade patterns seen after three years of UV exposure (Based on test method ASTM G90-05 "accelerated outdoor weathering")

Pattern, texture, and color capabilities are the hallmarks of the Premium Series, making SoftILE Premium the ideal choice for applications where architectural cohesiveness is a primary design consideration.



Customer Favorites

Sandy Lane



Multi-Grain



Spring Meadow



Roasted Pepper



Coral Clay



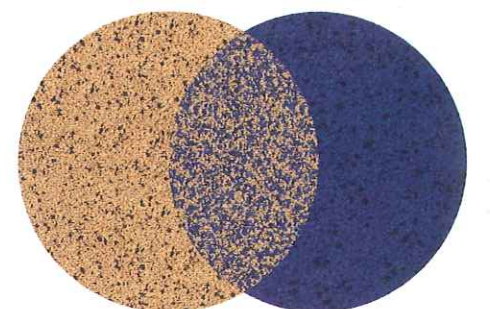
Blue Ice



Blue Sand



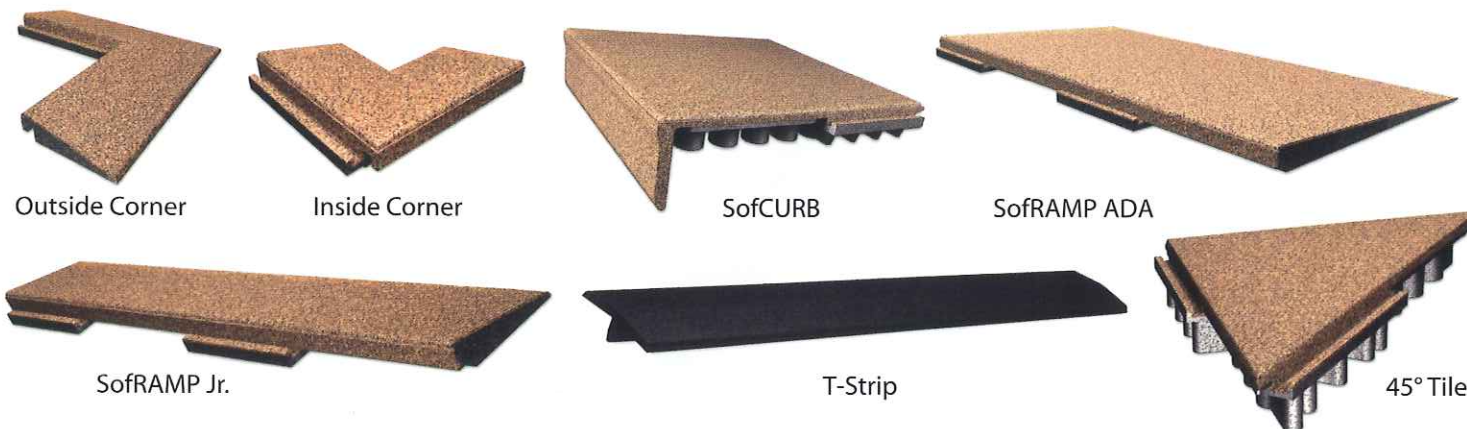
Custom blending is available to satisfy even the most specific architectural requirements.



Visit www.sofsurfaces.com to utilize our interactive custom blending design tool.

Accessories

SofSURFACES offers the widest selection of accessories to meet the specific needs of your project.



Environment

SofTILE KrosLOCK contains 74-93% post consumer recycled content, with each tile utilizing a minimum of one passenger tire in its manufacture. This year approximately 650,000 passenger tires will be rescued from North America's landfills to be used in the manufacture of our family of products.

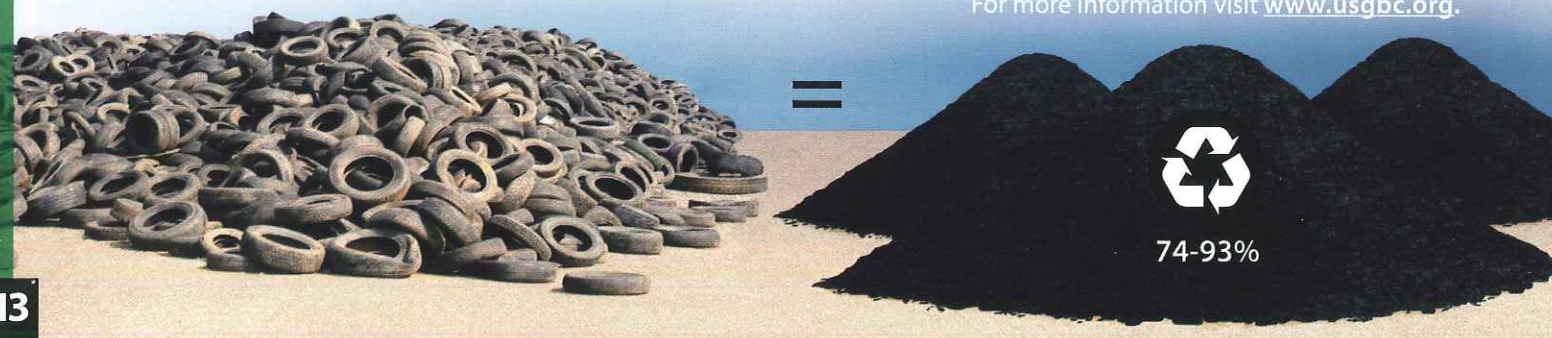
SofTILE meets the stringent criteria required to contribute towards points under 2 out of the 6 LEED® rating system categories including MR 4.1 and 4.2.

SofTILE is a sustainable product that can be reprocessed and reintegrated into new products once the surface has reached the end of its useful service life. Contribution towards MR credits 2.1 and 2.2 can be achieved through the return and reprocessing of construction waste back into new products.

What is LEED?

The Leadership in Energy and Environmental Design (LEED) Green Building Rating System represents the U.S. Green Building Council's effort to provide a national standard for what constitutes a "green building."

For more information visit www.usgbc.org.



The VALUE Equation

When evaluating safety surfacing options, it is important to remember that the quality of a system can vary significantly from one manufacturer to another. In order to ensure that your surfacing product excels in each of the critical performance categories, the following questions should form an integral part of your product inquiry.

Will the surface comply with accessibility guidelines?

One important component of an accessible playground is the surface. Given their physical properties all unitary surfaces should meet the accessibility standard. Although some loose fill materials are considered accessible, many others are not. Ask the manufacturer to provide confirmation that their surfacing complies with ASTM F1951-99 determination of accessibility of surface systems under and around playground equipment.

Will the surface meet the latest safety standards?

ASTM F1292-04 is the safety standard that governs the impact absorbing properties of a playground surface. Similar to a crash test dummy, an instrument is dropped from various heights onto the surface. Key impact measurements are recorded upon contact with the surface. In order to be considered compliant, the Head Injury Criteria (HIC) must be lower than 1000 when the instrument is dropped from the height that your surface is rated for.

What is the system's safety rating?

When tested in accordance with the ASTM F1292-04 standard, a safety surface must not exceed the maximum allowable limit of 1000 Head Injury Criteria (HIC). New surfaces with HIC ratings close to the upper limit are unlikely to remain compliant over the long term. Every manufacturer should be able to provide independent certified test reports outlining their product's HIC performance. Look for HIC results that are 600 or lower in order to ensure long term compliance of the surfacing system. Requiring post installation field testing is another way to ensure that a new surface is rated well below the 1000 HIC maximum allowable limit.

How long is my surface guaranteed?

It is important to look carefully at the warranty provided by the manufacturer. Many surfacing warranties do not include guaranteed performance to the ASTM F1292-04 safety standard beyond the initial installation. Look for manufacturers that are willing to warrant their product for materials & workmanship in addition to compliance to the fall protection standard for at least 10 years.

What type of surface is going to provide the best long-term, value equation?

The initial purchase price is always an important consideration, but even more important is the actual cost of the surface projected over a period of years. More often than not, lower initial priced surfaces end up being the higher priced surface in the long term due to extensive maintenance and replenishment costs.

Lastly, when evaluating a tile system, consider the advantages offered by a strong mechanical locking system. The use of a locking system provides distinct advantages over square edge tiles, including vandal resistance, and the prevention of curling and separation at the tile edges.

When designing our SofTILE KrosLOCK system, all of the above issues were carefully considered. The end result is a product that was engineered to excel in each of the key performance categories. After carefully evaluating our product, we hope that you will come to the same conclusion that we have:

SofTILE provides the best value equation by offering low life-cycle costs, consistent, reliable performance, and excellent warranties.

SoftILE KroSLOCK TECHNICAL SPECIFICATIONS

CRITICAL FALL HEIGHT & PHYSICAL DIMENSIONS

Thickness	Weight (lbs.) Ea. (Not less than...)		Critical Fall Height (ft.) (Performance Warranty)	
	Plus	Premium (EPDM)	Plus	Premium (EPDM)
2.00"	24.06	25.02	4.0	4.0
3.00"	26.46	26.72	5.0	5.0
3.25"	26.86	27.48	6.0	6.0
3.50"	27.16	27.44	7.0	7.0
4.00"	30.52	30.98	8.0	8.0
4.25"	31.04	33.98	10.0	10.0

PHYSICAL PROPERTIES

Test Description	ASTM Ref.	Results	Test Lab	Test Date
Impact Attenuation	F1292-04	<150 GMAX <750 HIC	DTL	0209
Freeze Thaw	C67	No deterioration	SGS	0609
Rubber Deterioration/Air Oven	D573	No deterioration	SGS	0609
Abrasion Resistance	C501	Abrasive Wear Index 140	DTL	0306
Durometer Hardness	D3676-01	56 Points	DTL	0306
Slip Resistance	E303	Dry 102 Wet 62	SGS	0998
Slip Resistance	D2047	Dry .81 Wet .82	SGS	0195
Tensile Strength	D412	107 PSI	SGS	0299
Elongation at Break	D412	165%	SGS	0299
Tear Strength	D624	33.1 Lbs/Inch	SGS	0299
Wear Surface Density (Durability)	D3676	>66 Lbs/CuFt	DTL	0306
Flammability - Burning Pill Test	D2859	Pass	NWL	0195
Flammability - Roof Covering	E108	Class A (Premium)	FMR	0299
Flammability - Critical Radiant Flux E-648		Class II (Premium)	-	-

SoftILE is manufactured to be 23 7/8" x 23 7/8" with a tolerance of +/- 1/8th" due to heat related expansion and contraction of rubber products.

PACKAGING INFORMATION

Thickness	Pieces Per Pallet	Full Pallet Weight (lbs.)			Pallet Height	Other Packaging Information
		Plus/Black	Plus/Pigmented	Premium		
2.00"	90	2,165	2,165	2,252	36.00"	Standard Pallet Size = 51"x72"
3.00"	84	2,223	2,223	2,244	48.00"	Empty Pallet Weight = 90 lbs.
3.25"	84	2,256	2,256	2,308	51.50"	Standard Pallets in 48' Van = 22
3.50"	78	2,118	2,118	2,140	51.50"	
4.00"	66	2,014	2,014	2,045	50.00"	
4.25"	60	1,862	1,862	2,039	48.50"	

TEN YEAR LIMITED WARRANTY INFORMATION Materials & Workmanship & Performance to ASTM F1292-04

Number of years from date of original installation to date of claim	Percentage of purchase price of product found to be defective or in non-compliance
0-6.....	100%
More than 6, but less than 7.....	60%
More than 7, but less than 8.....	40%
More than 8, but less than 9.....	30%
More than 9, but less than 10.....	20%



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**Leaders In Locking
Safety Tiles.**



WARRANTY
Materials & Workmanship
INCLUDING
Impact Attenuation
to ASTM F1292



Please Note: Due to many contributing factors, we cannot guarantee that the tile colors displayed in this booklet will exactly match the color of the delivered product. We have gone to great lengths to portray colors as accurately as possible. If a precise color match is important to you, please request free samples prior to ordering.



SoftILE KroSLOCK®

Reaching New Heights



WARRANTY
Materials & Workmanship
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to ASTM F1292



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Leaders in Locking Safety Tiles.