



LIFE FLOOR

TM

Aquatic Recreation 2015



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(888) 356-7528



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People love to walk on Life Floor.

That's because Life Floor is made especially for people—swimmers on pool decks, seniors citizens at the gym, kids running through water parks, and anyone who walks and plays barefoot in aquatic environments.

Why is Life Floor becoming the new standard in aquatic surfacing?

A Revolutionary Surface

At Life Floor, we believe aquatic surfacing should be beautiful, comfortable, and engineered for safety.

Conventional playgrounds have already experienced a transformation. And while aquatic playgrounds are growing rapidly, there has been no reliable safety surface for aquatic recreation. Until now.

Made with RepelCell™ Technology, Life Floor is chemically resistant, UV-stable, and features extraordinary traction and cushioning that lasts.



Traction

Life Floor is actually more slip-resistant when wet.

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Cushioning

Life Floor is cushioned to prevent bumps and breaks, even if you're an egg.



(Page 7)

RepelCell™ Technology

Life Floor is antimicrobial, totally waterproof, and virtually impossible to stain.



(Page 9)



Traction

Not slippery when wet.

Slip-and-fall injuries are a challenge for any aquatic environment.

While conventional solutions often involve abrasive coatings, we designed Life Floor to accommodate the way people actually walk through aquatic environments: barefoot!

Life Floor tiles are soft for bare feet and slip-resistant without being abrasive.

If you do fall, our tiles are cushioned to minimize breaks and bruises, and non-abrasive to prevent cuts and scrapes.



With a static friction coefficient of .92, Life Floor is significantly more slip-resistant than broomed concrete. Even at a 35 degree angle, our testers are still sure-footed on Life Floor.

See us in action: a video of this experiment is available on lifefloor.com.

Our Chief Technical Officer, Jason Bahrke, created this **slip resistance test** by building a ramp covered in 3/8" Life Floor Tiles and broomed concrete. He sprayed water on the ramp as he jumped on each surface, completing the test on 30, 35, and 40 degree inclines.

Cushioning

You can't redesign an egg, but you can redesign a floor.

Remember that science project, the one where you dropped an egg without letting it break? Of course it didn't work. And it's not the egg's fault, either. The floor was way too hard. What if you could change that?



Life Floor tiles are **cushioned for impact attenuation**, so even if you do fall, you're much less likely to be injured. In fact, we've **virtually eliminated slip-and-fall injuries** in some facilities.

That's an egg. It's bouncing.

Our 3/8" tile has a critical fall height of 1 ft, but most eggs won't break when dropped from 3 ft above. Seriously. Order a sample and try it.

You can even layer Life Floor to absorb greater impact. Our testers have dropped eggs onto 1 1/4" Life Floor from our roof, 25 ft above. The egg bounced away, intact.

Visit lifefloor.com to see the video!



RepelCell™ Technology

Life Floor tiles repel water and other liquids, so they're perfect for aquatic environments. Our patented RepelCell™ Technology makes Life Floor non-absorbent, antimicrobial, stain-proof, and chemical resistant.



Totally Waterproof

Life Floor tiles are impervious. They will not absorb water or other liquids, and underwater applications last just as long as above-water applications.



Food stains before and after a 24 hour period



Virtually Impossible To Stain

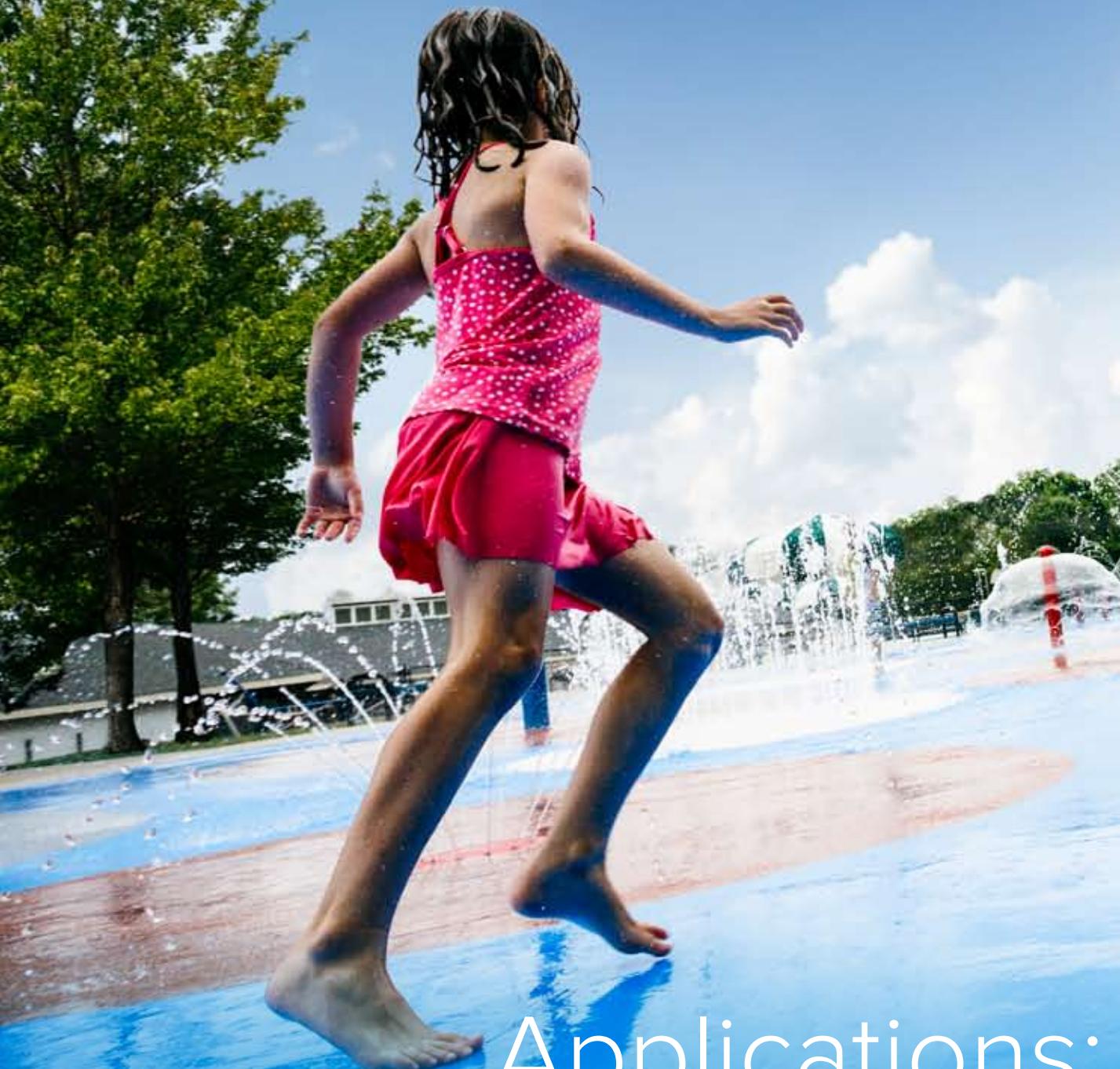
We've tested tiles with food and chemical spills, and we've yet to find anything that stains Life Floor. Tiles are even easier to clean with our suite of Easy Maintenance Cleaners.

Incredibly Antimicrobial

Closed-cell technology helps prevent the growth of harmful bacteria and mold.

(Long-standing water and improper cleaning may result in dirty tiles.)

Westfield Memorial Pool Westfield, New Jersey



Applications: Transforming Aquatic Recreation

Splash Pads: Better safety. For everyone.

A commercial water park (not pictured) called Life Floor during the summer of 2013. Over the first six weeks of their season, an attraction on their property generated 35 incident reports for slip-and-fall injuries, mostly children. While injured guests are always the primary concern, these incidents also cost the park \$2K per incident, usually due to medical bills and legal settlements. The park wanted to install Life Floor on the attraction immediately.

After installation, the remainder of the summer was completely different. No other children were injured on the attraction, and Life Floor paid for itself in approximately two weekends.



At Westfield Memorial Pool Complex In Westfield, New Jersey

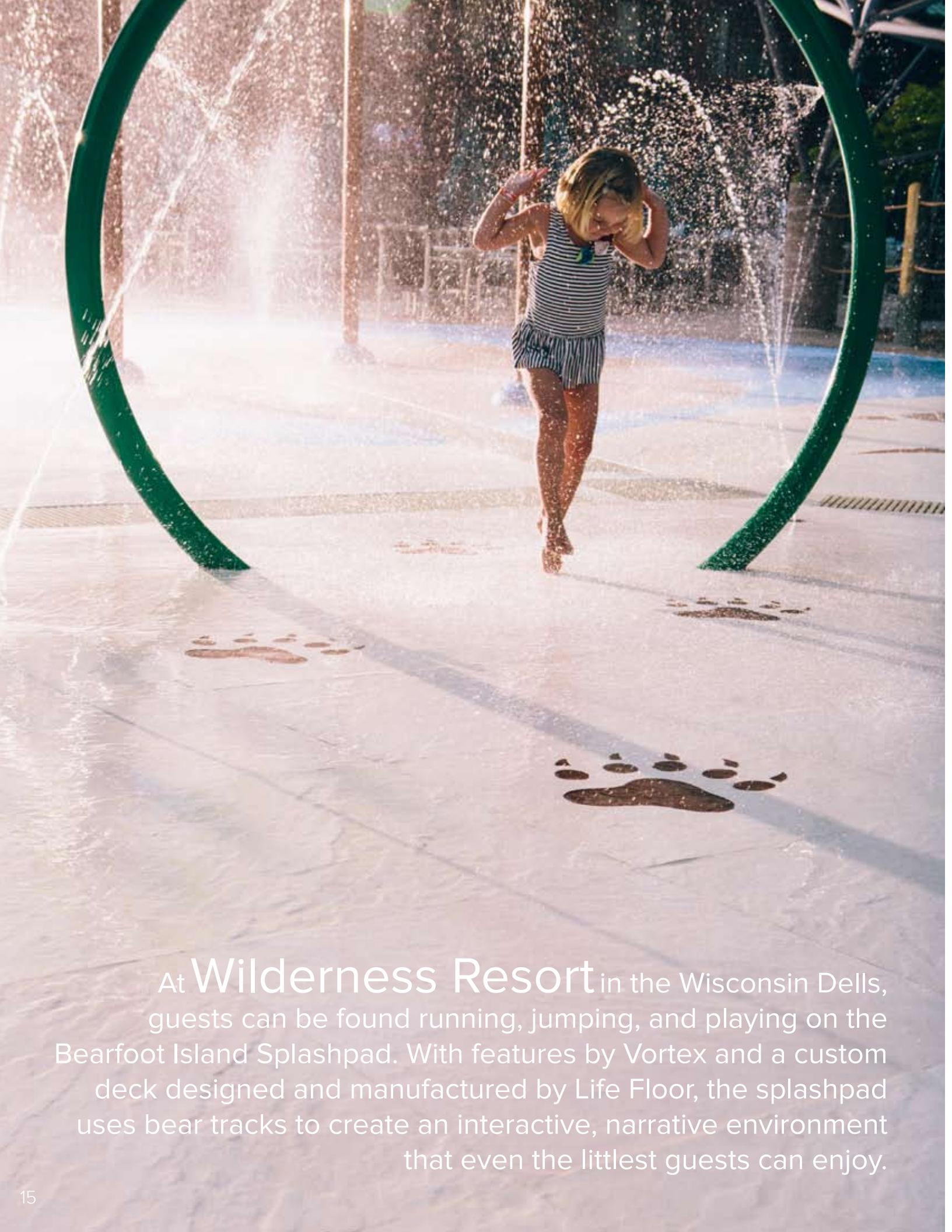
Colorful shapes outline play areas in this playful splash pad design, which was chosen by community members. With play features by Water Odyssey™, kids love jumping, running, and splashing in view of the park's beautiful public pool and water slide.



"Our community loves Life Floor. Everyone who visits the splash pad says it feels comfortable and looks beautiful. It is the best surfacing we've ever had."

- Westfield Memorial Pool





At **Wilderness Resort** in the Wisconsin Dells, guests can be found running, jumping, and playing on the Bearfoot Island Splashpad. With features by Vortex and a custom deck designed and manufactured by Life Floor, the splashpad uses bear tracks to create an interactive, narrative environment that even the littlest guests can enjoy.



Spray Parks
Lion Country Safari
Loxahatchee, Florida



Life Floor goes where ever you find bare feet and wet floors.

Your feet will be happiest on our tiles, and our tiles are happiest wherever you find bare feet and consistently wet surfaces. Popular applications include: spray parks, slide pads, lily pad landings, slide towers, pool decks, and zero depth entries. View recent installations of these areas on the following pages.



Slide Pads
LEGOLAND®
Carlsbad, California



Zero-depth Entry Lazy Rivers
Elk Grove Parks District
Elk Grove, Illinois

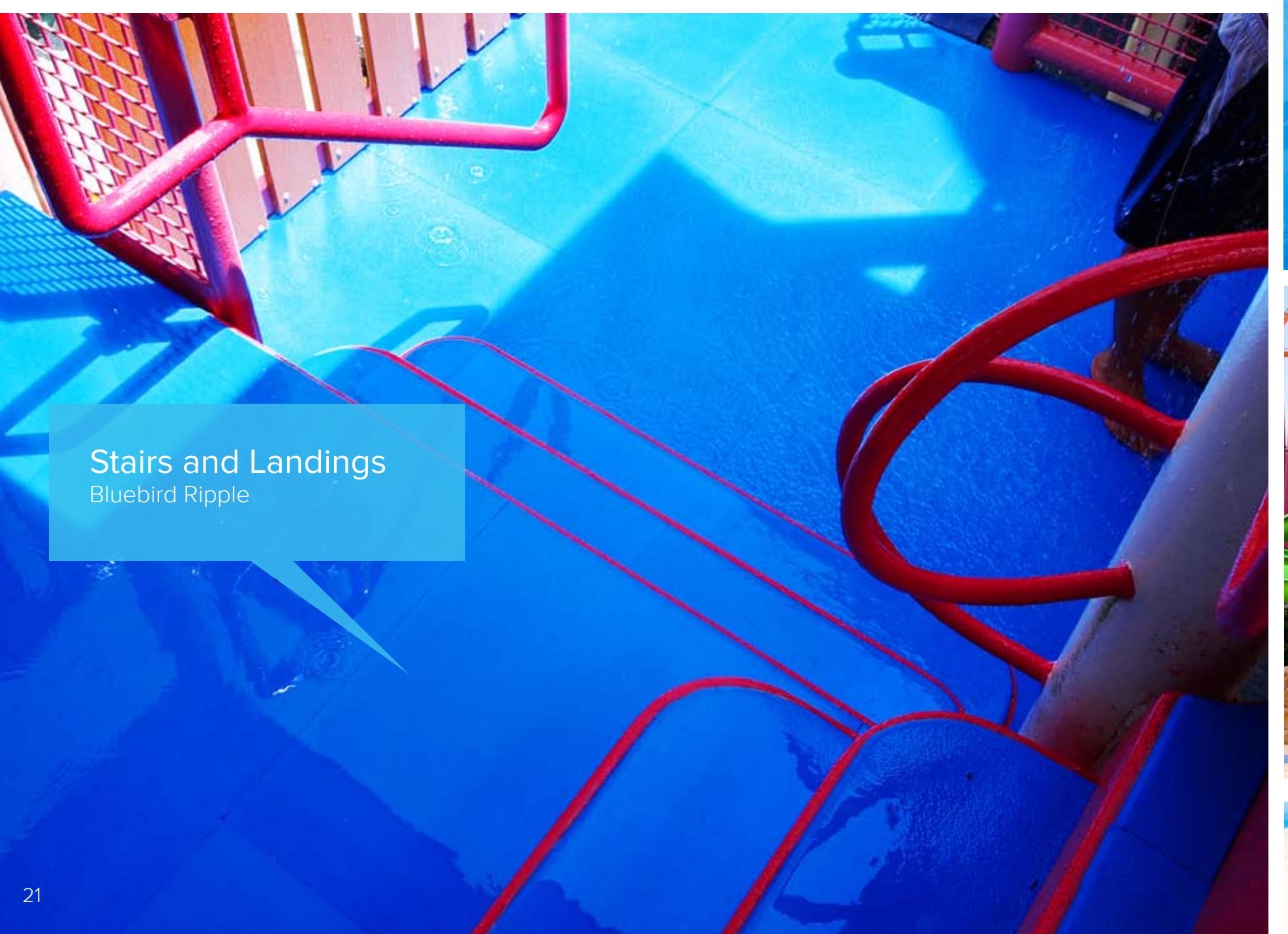


Zero-depth Entry Kiddie Pools
Massanutten Resort
McGaheysville, Virginia





Spray Features
Wilderness Resort
Wisconsin Dells, WI



Stairs and Landings
Bluebird Ripple



Around Attractions
Six Flags Great America
Gurnee, Illinois

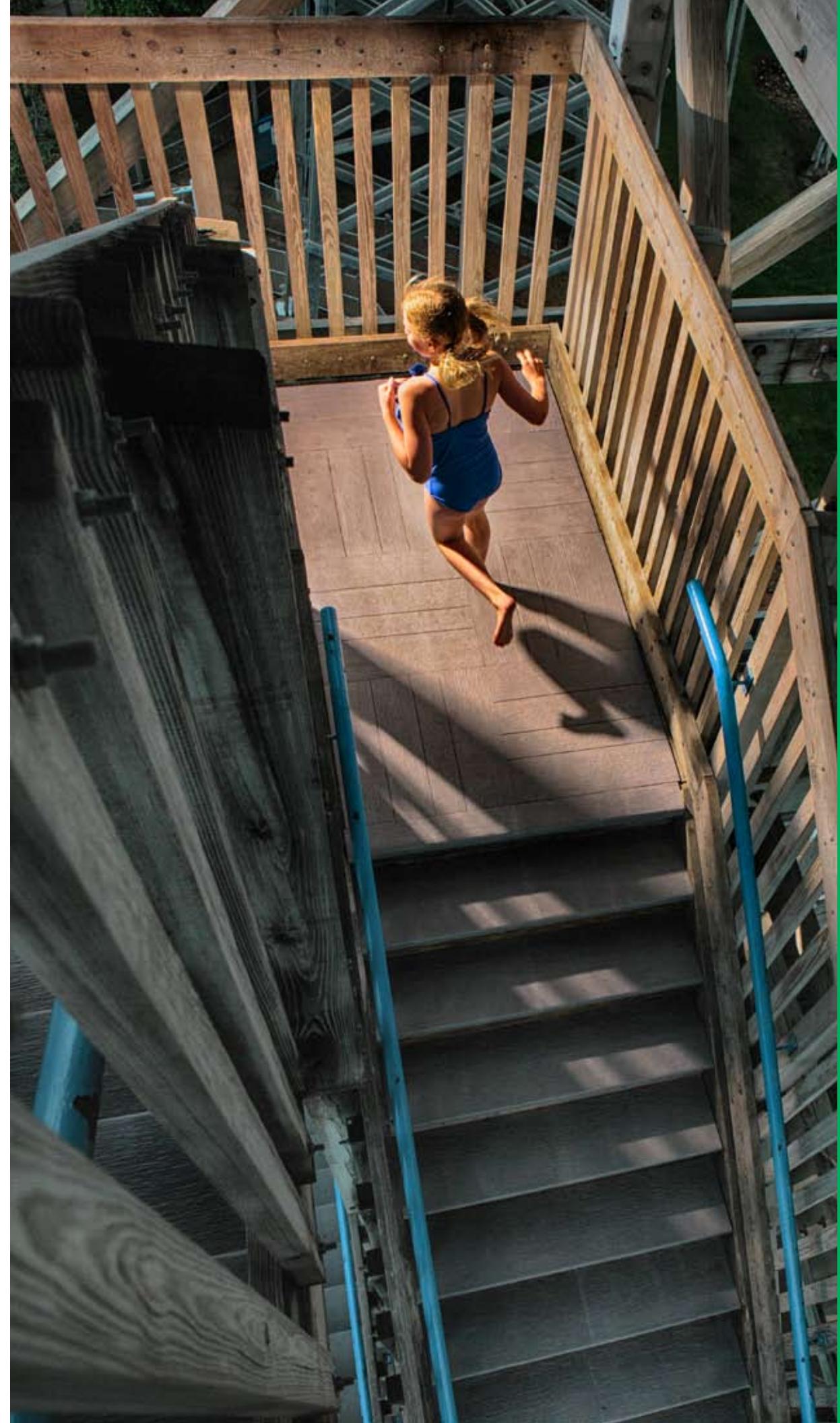
Lazy Rivers
City of Dublin Community Center
Dublin, Ohio

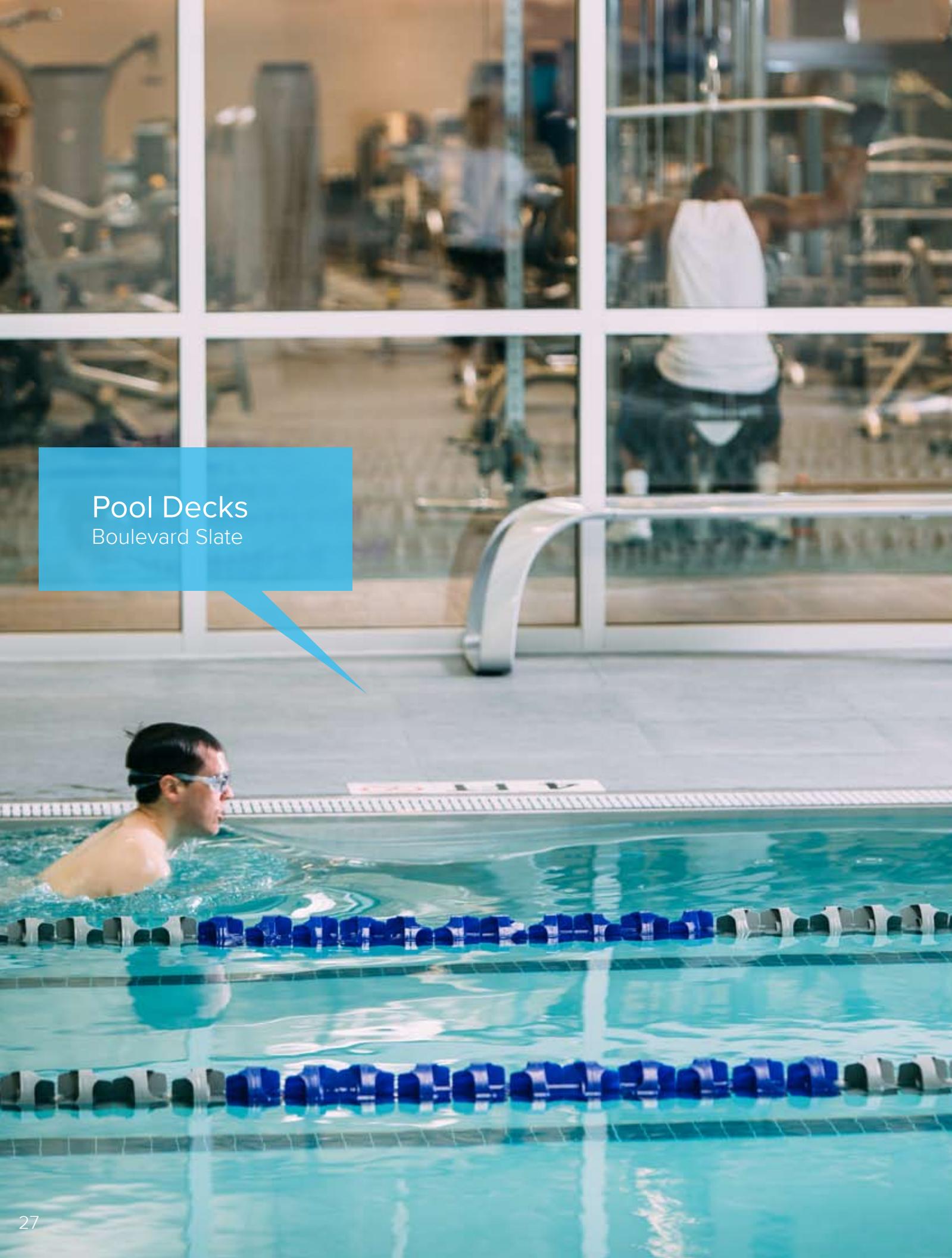




Slide Towers

River Rock Rustic Board





Design:

What do your decks say about you?

Do they reflect the fun, color, and style of the rest of your park? All splash pads are unique, especially created by designers for a specific park or facility. With Life Floor, your deck becomes an extension of your park's distinctive brand.

With a wide array of colors and custom, water-jet cut designs, Life Floor makes your decks part of the attraction. Guests love every spray feature of your splash deck, and now they'll love every jump and step in your park.

Drains and other maintenance features are flush and fully integrated with our tiles.

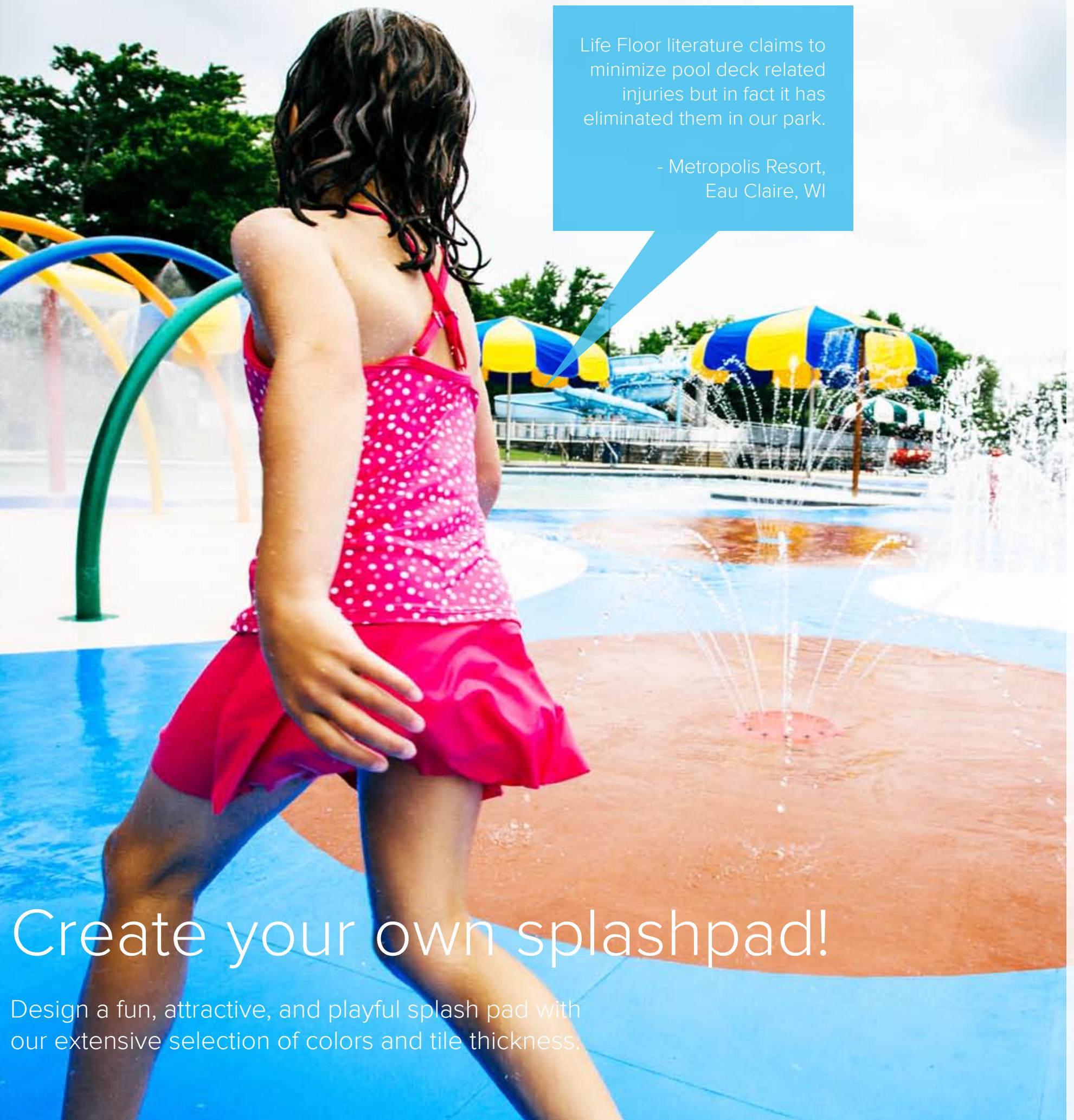
Narrative design integrates the deck with both the spray features and the splash pad to enhance the park's rustic wilderness theme.

Bearfoot Island
Wilderness Resort, Wisconsin Dells
Bluebird, Mojave, and Sandstone
with Sepia bear claw inlays.
Designed by Life Floor.

Life Floor is UV-stable, chemical resistant, and unlike other surfaces, never needs to be repainted or resealed.

Inlaid designs can be as big or as small as your imagination.





Create your own splashpad!

Design a fun, attractive, and playful splash pad with our extensive selection of colors and tile thickness.

Life Floor literature claims to minimize pool deck related injuries but in fact it has eliminated them in our park.

- Metropolis Resort,
Eau Claire, WI

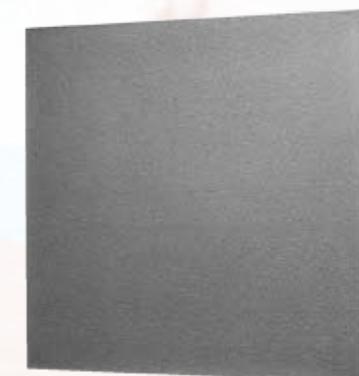
Why is tile thickness important?

As tile thickness increases, so does critical fall height and safety. For aquatic environments with young children, we recommend using our 3/8" tile with Ripple, our most slip-resistant texture.



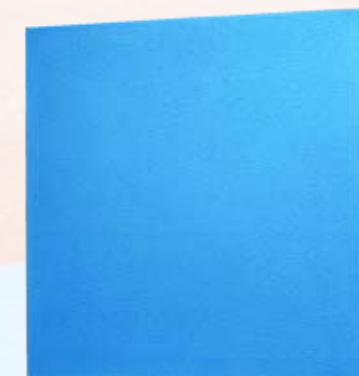
3/8"
Our 3/8" tile has a critical fall-height of 1'-0". Ideal for splash-pads, zero-depth entries, and other aquatic recreation areas.

Dimensions: 24" x 24" x 3/8"



3/16"
Our most economic tile, ideal for larger areas and stairways.

Dimensions: 24" x 24" x 3/16"

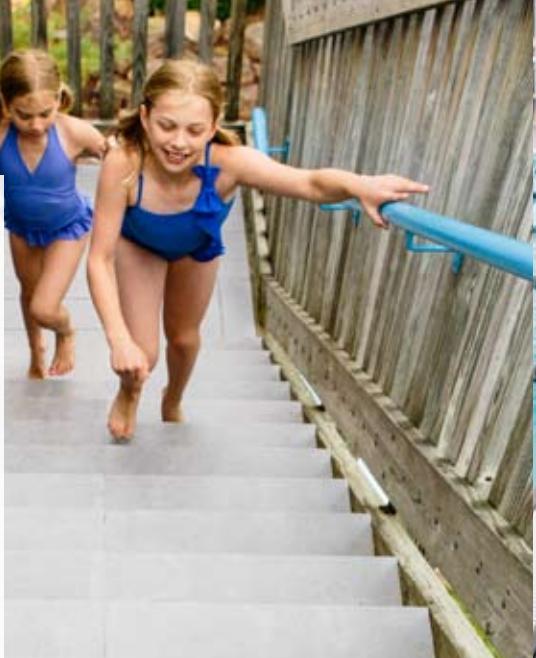


7/8"
Our 7/8" tile has a critical fall height of 4'-0". Ideal for play areas with toddlers and small children, we also recommend using 7/8" tile at the bottom of slides and around play features.

Dimensions: 24" x 24" x 7/8"

Color

Life Floor uses an extensive color palette to meet the specific design and theming needs of facilities. Our tiles last in extreme hot and cold conditions both indoors and outdoors. For maximum comfort, we suggest our lightest color tiles for outdoor use.



River Rock



Boulevard



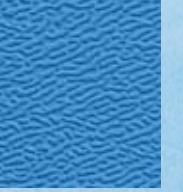
Bluestone



Kestrel



Bluebird



Porcelain



Sunshine



Sandstone



Mojave



Terra Cotta



Sepia





Inlaid Design

Custom splash pads can be designed using vector or CAD drawings. Working from a digital file, tiles are run through a water jet cutter and assembled on-site.

Our team will work with you to create a floor that matches the rest of your park.

The possibilities are endless.





**"It looks good,
keeps our guests safe,
is easy to keep clean,
and our staff enjoys
working on it."**
- LHR Hospitality
Management

Technical Support

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General FAQs

What is Life Floor?

Life Floor is a 24" x 24" foam-rubber floor tile that is designed for aquatic environments with predominantly barefoot traffic.

Why is Life Floor the best aquatic surface?

Life Floor is made with Life Floor's RepelCell™ technology, with industry-leading traction and cushioning to create a safer and more comfortable surface. Life Floor's modular tiles allow for custom designs to complement the designs of any facility. Additionally, tiles are impervious to water, dirt, and debris, allowing Life Floor to be cleaned and maintained more easily than other aquatic surfaces.

Where does Life Floor go?

Life Floor is commonly used as a surfacing product for (but not limited to) pool decks, spray grounds, locker rooms, showers, zero depth entries, and underwater applications.

Which Life Floor tile is best for my application?

Ripple has the highest dynamic slip-resistance and is recommended for areas of active play, sloped surfaces, or other areas where slip-resistance is a top concern (e.g. spray grounds). 3/8" thick tiles are recommended, especially for areas of active play, because of cushioning/impact attenuation.

What Life Floor Tiles are recommended for aquatic play?

- 3/8" Mojave Ripple
- 3/8" Bluebird Ripple
- 3/8" Boulevard Ripple
- 3/16" Bluebird Ripple

What is the product's fall height?

Life Floor standard thickness is 3/8" which has a fall height of 1'-0". The thicker 7/8" tiles have a fall height of up to 4'-0". You can also stack tiles on top of one another to achieve higher fall heights, although this adds expense.

What is Life Floor's warranty?

For each application, Life Floor offers a five-year warranty for normal wear and tear on 3/8" tile and a three-year warranty on 3/16" tile. In areas of extreme traffic (250,000 annual users or more) the warranty is two years.

What is the lead time for new orders?

Featured products ship within two weeks as they are stocked in inventory. Non-featured (custom) products have a lead time of 90 days, but can be rushed shipped in 35 days for an additional charge.

Won't water get in between the tiles?

Short answer: Not really, but even if water does get between the tiles, it's not an issue. To date, Life Floor has not had a single customer post-installation incident where a customer reported problems due to water between their tiles.

Long answer: Seams are generally tight, but water may use a seam to flow to a drain or to temporarily rest before evaporating. For indoor installations, we recommend routine cleaning to remove water before it can stagnate. Outdoors, the water will typically evaporate before it can stagnate. We also use a contact cement adhesive that creates a waterproof barrier underneath the tiles.

Does it come in rolls?

No. Life Floor tiles are individual, 24" x 24" tiles. Tiles can be custom-cut to smaller sizes if needed. When installed, single tiles are placed individually with care, as opposed to some floor coverings that are unfurled in large, unwieldy rolls. Individual tiles can also be removed and replaced if maintenance needs arise, which affords a facility much more flexibility over the long term.

Is Life Floor a tripping hazard?

Life Floor offers transition strips for 3/8" tile and thicker which are 3" by 2'-0" strips that provide a clean transition from an existing floor up onto Life Floor. Otherwise, the installer can router the edges of Life Floor to provide a finished look.

What is Life Floor's coefficient of friction?

The coefficient of friction measured by ASTM C1028 is .92. Life Floor performs superior to other flooring materials in wet, barefoot applications. Life Floor has also performed with the highest possible rating when we utilize other testing methods, including the British Pendulum test for dynamic coefficient of friction.

How does Life Floor perform in extreme heat/freezing climates?

Life Floor has installations across the United States and internationally that have withstood temperatures of -40°F to 120°F. The product has performed well in all climates. When adhered with contact cement, tiles will expand and contract with a concrete sub-base.

Will the tiles become hot?

The tiles can become warm in direct sunlight without water, comparable to concrete. In these areas, we recommend our lighter colors. In areas that are consistently wet (spray grounds, zero-depth entries), Life Floor tiles stay relatively cool. Tiles also cool off quickly underfoot when standing in the same place for a few seconds. Outdoor areas with no shade are not an issue when selecting light color applications.

How does Life Floor perform with salt water?

The beauty of RepelCell™ technology is that Life Floor performs the same with salt water, chlorinated water, and untreated water. Salt water will not cause erosion of the Life Floor tiles.

What happens if children pick at the tiles?

The bond of Life Floor to concrete is extremely strong. A strong adult typically needs tools to remove a tile from its substrate using full body force.

What type of shoes can be worn on Life Floor?

Sneakers and other shoe types will not typically damage Life Floor Tiles, but in high shoe traffic areas, wear may accelerate. High heel shoes may cause indentations to Life Floor, but these impressions are often not visible from eye level and do not affect tile performance.

Will heavy objects damage Life Floor?

Heavy objects could leave a depression on the tiles' surface. Depending on how heavy the object is and how long it was left in place, the depression should rebound over time.

Can you ride bikes on Life Floor?

Bicycle wheels are not an issue on the floor. However, the customer should be aware that if a bicycle is skidding, laying on its side, or being dragged across the floor, the tiles may be damaged by the pedals or other sharp objects on the bike.

Installing Life Floor

Life Floor has built a network of Certified Dealers and Installers that can assist you in both purchasing and installing Life Floor. For larger facilities and organizations, we also offer on-site training to enable your own staff to install Life Floor. Our flooring experts will work with you to accomplish an outstanding Life Floor installation on a time line that accommodates your schedule.

Installation FAQs

Can you install it over compacted aggregate sub-base?

No. Appropriate substrates include concrete, new wood, plastic, metal, and fiberglass. Essentially, Life Floor requires a substrate that is: dry, well intact (not crumbling, rotting, or coming up), and cleaned of debris, dirt, oils, waxes, and sealers. If these conditions are met, then Life Floor can be installed.

What type of adhesive should be used?

A commercial grade Contact Cement is the best option for most applications. We have a network of distributors of this adhesive and can connect you with one or more distributors based on the project location. In low-traffic applications or as a fallback, you can use DAP contact cement from home improvement retailers.

How is the contact cement applied?

The contact cement is painted on with a paint brush or paint roller to both the sub-base material and the back of the tile, allowed to cure for 10-15 minutes depending on the environmental conditions (warmer temperatures will require less time), then the tile is placed. This offers a secure bond. If the tile fails to adhere, the installer will know immediately and will need to wait a bit longer for the adhesive to cure before the tile is placed. Read the label on the contact cement for additional instructions.

How is design work done?

Designs can be water jet cut from a CAD or vector drawing and prefabricated for quick and easy installation. Inlaid designs can also be cut and installed onsite. Generally, the installation crew cuts out the desired shapes and then inlays the void with a contrasting color. We require certified installers to perform inlaid design work. For repetitive designs (footprints, paw prints, logos), die cut shapes can also be created.

Can Life Floor be installed underwater?

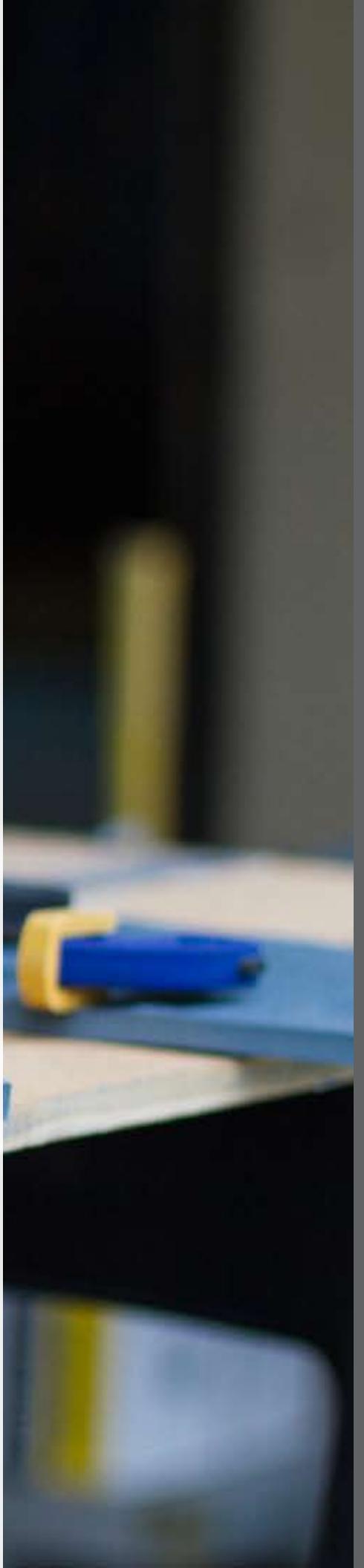
Yes, Life Floor can be installed underwater and remain underwater for many years without replacement. Tiles are installed using a synthetic rubber, waterproof contact cement that can withstand underwater environments.

Can you install it over Poured in Place rubber?

It depends on the current condition of the Poured in Place (PIP). Tiles can adhere to rubber, but if the PIP is coming apart, our tiles will not have a solid enough substrate to adhere to. The longevity of the Life Floor install would be directly linked to how the PIP performs over time. Life Floor would provide a sealant for the PIP, but if the PIP starts breaking down over time, then Life Floor tiles will also become loose.

Are there multiple ways to handle drains?

For existing drains, a removable cover is developed on site to provide a consistent look. The alternative is to leave the current drains exposed. For 3/8" tile, transition edges will be necessary to slope the edge toward the drain. For 3/16" tile, transition edges are not required since there will not be a trip hazard.



Maintaining Life Floor

Life Floor requires consistent maintenance and proper cleaning. Not following these guidelines may result in damaged Life Floor or voiding of the Life Floor warranty.

Routine Maintenance

Areas exposed to only barefoot traffic can be cleaned on an as-needed basis with Life Floor Easy Maintenance Cleaners. For areas exposed to shoe traffic, Life Floor should be cleaned at least once a week. A standard cleaning schedule can be found in the Cleaning Guide. When cleaning Life Floor, use a cotton mop, cloth, sponge, a light or medium scrubbing machine with vacuum recovery, or non-metallic brushes. Stiff brushes or brushes that contain abrasives may damage Life Floor. Do not use metal brushes or grit-coated, aggressive brushes of any kind on the tile surface.

Cleaning Solutions

While most floor cleaners are acceptable to clean the surface of Life Floor tile, we recommend Life Floor Easy Maintenance Cleaners. Effective alternatives include bacteria-killing agents such as hydrogen peroxide, bleach, ammonia, or citrus. Do not use any type of sealer or wax product, as these will coat the tile surface with a slippery residue.

Preventative Maintenance

Life Floor tiles are durable and designed to withstand high volumes of barefoot traffic. However, Life Floor tiles may be scratched or cut by sharp, heavy, or abrasive objects. Should a tile become damaged, replacement is generally easy, but force will be required to remove an adhered tile. We recommend the use of plastic or natural bristle scrub brushes to clean the tile surfaces. We also recommend the use of plastic or wood furniture instead of heavy, metal furniture. Deck furniture should have wide and flat feet, or broad furniture coasters secured to the bottom of deck furniture feet. If mechanical lifts or heavy objects are to be transported or placed on top of Life Floor, it may be necessary to protect the deck surface with plywood or Masonite. Do not allow burning or extremely hot objects to come in contact with Life Floor tile. To help remind your guests about acceptable footwear and use of Life Floor, we have created signs that you may purchase upon request.

Non-Warrantable Conditions

Life Floor tiles and adhesives are warranted for up to five years, per the terms and conditions of sale. The following is a non-exhaustive list of conditions for which Life Floor tiles are not warranted: high heel damage, contact with sharp objects such as knives, scissors, metal edges, contact with hot objects such as sparks, cigarettes, hot liquids, contact with heavy machinery, and/or prolonged contact with hazardous chemicals e.g., solvents or acids.

Cleaning Life Floor

Life Floor offers a full line of cleaning supplies that are designed specifically for Life Floor tiles. Our Life Floor Easy Maintenance Cleaner suite of products includes our Peroxide Cleaner, Degreaser Cleaner, and Mineral Deposit Remover.

The Life Floor cleaning process has three easy steps: Apply-Agitate-Recover. Use our online guide found on lifefloor.com for specific cleaning guidelines and schedules.

Cleaning FAQs

How often do I need to clean Life floor?

If an area is exposed to shoe traffic, Life Floor should be cleaned on a weekly basis. If an area has only barefoot traffic (splash pads, spray parks) we recommend cleaning Life Floor on an as-needed basis. Areas with constant water flow will require less cleaning. We generally recommend using Mineral Deposit Remover once per season. In some cases, excessive use of aerosol sunscreen may need to be removed with Degreaser Cleaner on a weekly basis.

How often do I use each Life Floor Easy Maintenance Cleaner?

This also depends on the application. Each cleaner provides a different cleaning solution. We generally recommend using Degreaser Cleaner on a weekly basis to remove dirt and oil, but should be used on an as-needed basis for barefoot only areas. Peroxide Cleaner and Mineral Deposit Remover may be used on an as-needed basis.

How do I clean in between the tiles?

We recommend using our Easy Maintenance Cleaners and following the three step cleaning process of Apply-Agitate-Recover. Cleaning between the tiles is best accomplished with a pressure washer and wet vacuum.

What is the white film on the tiles and how do I clean it?

Mineral deposits can appear as a white film or even a crusty yellow coating. If mineral deposits are identified and addressed early, they are easily removed with the Mineral Deposit Remover. Follow the Apply-Agitate-Recover process to remove deposits.

Can Life Floor be permanently stained?

To date, we have not found a chemical that permanently stains Life Floor. However, Life Floor may become discolored if extremely harsh chemicals—such as muriatic acid—are allowed to sit on the tile for an extended period of time.

Are there any chemicals I should avoid using on Life Floor?

Avoid chemicals such as paint, trichloroethylene, and muriatic acid. While Life Floor is chemical resistant, solvents may attack the adhesive beneath the tiles. When using solvents to remove stains, avoid flooding butt joints with the chemicals listed above. If solvents do soak into the butt joints, clean the area with our Degreaser Cleaner and use vacuum recovery.

Solvents to avoid for contact cement: all solvents, including mineral spirits and gasoline.

How do I remove gum from Life Floor?

First apply ice to harden the gum. Once the gum is hardened, carefully lift it away with a putty knife or similar scraper. Use caution, as Life Floor can be damaged by aggressive scraping. Any remaining gum residue can be removed by applying WD-40 with a cloth.

Replacing Life Floor

Replacement is easy, quick, and economical. Should Life Floor become damaged, users are able to replace individual 24"x24" tiles instead of entire floors.

First, remove the damaged tile by lifting tile corners with a razor scraper or putty knife. Pull the tile away from the floor substrate until completely free. Next, scrape and remove any leftover adhesive from the substrate surface with a putty knife or a 4-inch razor scraper. After removing leftover adhesive, measure and, with a utility knife, cut a new Life Floor tile to the size of the replacement area. Finally, adhere tile to the substrate using waterproof contact cement found at your local hardware store. Follow the instructions on the back of the contact cement container for tile placement and adhesion process. We recommend the following adhesion process:

With a general paintbrush, evenly apply adhesive to the back of the replacement tile and to the substrate. Let both surfaces cure for approximately 10-15 minutes until the cement is tacky or slightly dry to the touch (see cement label for curing times). Begin laying down the replacement tile by aligning the new tile edge with the surrounding tile edges. Ensure each corner and edge are secure by applying pressure with your thumb and index finger. To ensure adhesive is secured to the substrate, use a floor roller to apply pressure to the entire tile area.



Technical Data

Extensive testing has been performed on Life Floor tile, including slip resistance, flame and smoke spread, water and chemical resistance, UV and Ozone stability, temperature stability, and mold resistance. Request full testing reports and MSDS online at lifefloor.com.

Traction/Slip-resistance

ASTM C1028-07 Static Coefficient of Friction: 0.92 when wet

Cushioning/Impact Attenuation

ASTM F 1292-10; Standard Specification for Impact Attenuation of Surface Systems Under and Around Play Equipment : 3/8" tile: 1'-0", 7/8" tile: 4'-0".

Water Permeability

ASTM F1551-09: Standard Test Methods for Comprehensive Characterization of Synthetic Turf Playing Surfaces and Materials: Suffix-DIN 18-035, Part 6: Water Permeability of Synthetic Turf Systems and Permeable Bases: Product will not allow vertical drainage

Flammability

ASTM E648-03 Critical Radiant Flux Class 1 interior floor finish rating
ASTM E84-04 Flame Spread Index 255, Smoke Development Index 300

Physical Properties

UV Stable, antimicrobial, closed cell, chemical resistant

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For more information, and for the latest
product information, always visit
www.lifefloor.com

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