South Shore
Clean Cities
artificial grass never looked more natural.
What is SYNLawn

- Plant-based alternative to natural grass
- The most advanced synthetic grass on the market today – SYNLawn offers the most current tech in Nylon, Polypropylene & Polyethylene Yarns.
- This state-of-the-art grass allows for applications in areas not possible with other artificial turf or existing field products.
Among the Potential Uses for SYNLawn

» Commercial Market
  » Trail landscaping, office parks, hotels, apartments and condos, malls, restaurants, amusement parks, kennels.

» Municipalities and Organizations
  » Schools, churches, parks and recreation, local government (medians, dog parks).

» Residential Market
  » Lawns, landscapes, roof decks, patios, media rooms, putting greens, playgrounds, dog areas.

» Golfing Community
  » Country clubs, municipal courses, practice facilities, driving ranges.
Brief History of Synthetic Grass

• Artificial turf had its commercial birth when it was installed at the Astrodome in Houston, Texas in 1965.

• The use of artificial grass turf was almost exclusively limited to sports venue applications in the 1970’s.

• By the 1980s artificial grass turf was installed at a number of soccer and football fields at the municipal levels.

• First generation artificial grass turf earned an infamous reputation because of its unforgiving nature and its “unrealistic” look. The industry still fights against old perceptions from this period.

• Mid 1990’s - as the technology used in the manufacturing process improved, artificial grass turf began to gain momentum again leading to the manufacturing of 2nd generation artificial turf.
Brief History of Synthetic Grass

• As technology advanced, long, lush grasses became available for production, breaking away from the ½ inch pile heights seen previously.

• In the late 90’s early 2000’s, turf using sand and/or rubber infill was developed – and manufacturers began using a different type of plastic which enabled the “third generation” of artificial grass turf to look extremely realistic in appearance.

• The industry has now evolved to a “fourth generation” technology process – using thatch zone to keep the fibers in the upright position — and thus does not require rubber crumb for support. This both contributes to a realistic looking product with decidedly more “green friendly” design.
Brief History of Synthetic Grass

- Synthetic grass now is made from a high percentage of renewable content, with many of the traditional petroleum-based polymers being replaced with easily renewable components like soy.

- The most common types of yarns used today in artificial grasses are Nylon, Polyethylene and Polypropylene, all extremely soft and low abrasion yarns.
SNAPSHOT: ADVANTAGES OF SYNTHETIC GRASS

» Little to no maintenance – no mowing, watering, or fertilizing.
» Saves up to 70% on water bills.
» Saves money on maintenance costs.
» Reduces carbon emissions caused by gas-powered lawn equipment.
» Looks green and healthy year round.
» No fertilizers contaminating ground water.
» Many design possibilities – use grass in places grass has never been used, esp HIGH TRAFFIC.
» Non-allergenic.
» Clean – no grass stains or dirt tracking.
Advantages of Synthetic Grass

Use of synthetic grass holds many advantages

*Source EPA*

- Saves literally millions of liters of water each year from being consumed by lawn irrigation. A 2,000 square foot lawn would uses the equivalent of a large swimming pool per year in grass watering.

- Several city water authorities – particularly in the southwest and west – are offering tax rebates or other forms of incentive for every square foot of natural sod you replace with artificial grass based on potential water savings.
Advantages of Synthetic Grass

• Where the previous perception may have been the indoor/outdoor lime green carpet, now synthetic lawn owners have manicured looking lawns all of the time.

• Hybrid artificial grass technology offers high performance resiliency and soft touch with variegated colors and realistic looking thick grasses. The average synthetic grass has two to three times the density and pile height of high grade indoor carpet.
Advantages of Synthetic Grass

- **Earth-friendly landscape** solution help the environment by reducing carbon emissions and fuel consumption from lawn equipment – environmental conscience cities are paying close attention to which emissions and gases are released into their atmospheres – the less the better.

- Synthetic grass is extremely hygienic as the product remains clean and does not act as a harbor for airborne allergens (compared to fresh cut grass).

- Maintaining natural grass lawns can have a negative impact on the environment when **toxic fertilizers and pesticides** contaminate ground water through run-off. Although many cities have limited the use of these products, many home owners circumvent the system to have a pristine looking lawn.
Advantages of Synthetic Grass

- Synthetic grasses are very **easy to maintain**, usually requiring only minimal upkeep. More upkeep may be necessary along roadside areas due to road salt, sand, etc going onto the grass.

- **SYNLawn offers Care & Maintenance Guidelines**, including training, maintenance and groundskeepers.

- Leaf blowers are recommended as well as simple grooming machines.
How Landscape Grass differs from Sports Field artificial turf

• Primary difference between synthetic grass sports fields and Landscape Applications (everything that is not a field) is that Landscape Applications do not require rubber crumb infill.

• Most sports fields require rubber crumb infill for the product to maintain its position and to stand up and for impact attenuation.

• Most landscape grass use a **Thatch Zone technology** to achieve this versus rubber crumb. Rubber crumb is messy and tends to migrate and requiring much higher levels of maintenance.

• Aesthetics is another primary difference. Landscape grasses are designed to mimic existing styles with varied lengths, variegated colors, and different blade characteristics etc, whereas sports fields tend to be very generic in appearance with less “features.”
Have you had a “challenging” landscaping design which contained an area hard to grow grass or mow grass?

• We have a solution for those difficult areas!
Welcome to SYNLawn!
SYNLawn is an American brand...100% made in the USA and is a vertically integrated company from yarn to yard.

Recently, SYNLawn has joined forces with German-based The Sport Group broadening the SYNLawn brand to a world-wide audience.
Who is SYNLawn?

SYNLawn is an industry leader in terms of 1) investment in the manufacturing facilities for its artificial grass product lines; 2) research and development (R&D) of existing and new products; and 3) personnel dedicated to the support of corporate and franchise sales of SYNLawn products.

With our new partnership, we just opened a 480,000 s.f. turf manufacturing plant in Dalton Georgia. Last year we manufactured over 80 million s.f. of synthetic grass.

The process by which SYNLawn is manufactured is similar to carpet manufacturing process.
SYNLawn Manufacturing
Why SYNLawn?

- Advanced Installation Systems for...
  - Commercial and Residential landscape
  - Playgrounds
  - Fields
  - Golf
  - Pets
  - Rooftops
- Custom-made styles to fit any application.
Why SYNLawn?

- Best Product Line
  - Widest Selection
  - Proprietary Products
- Product Development
  - In-house R&D with over 40 years of manufacturing experience.
  - Industry leading innovator.
SYNLawn Innovations

- **HeatBlock™** technology – Reduces surface temperature on turf by incorporating infrared reflective pigments that help to reflect rays & dissipate heat build up (used in several product lines).

- **Antimicrobial technology** – AlphaSan® helps prevent growth of bacteria and mold (used in one pet-friendly style of grass).

- **Structural technology**. Yarn shape for dimensional stability

- **Soy products** used in lieu of petroleum for a more environmentally-friendly product.
Secondary Backing Innovations
Worries about air quality

- SYNLaw has been tested by Air Quality Sciences (US Gov’t Certified lab) for 38 Volatile Organic Compounds and has been deemed safe for use both indoors and outdoors.
- Low VOCs
Green Story

» Saves water and reduces carbon emissions from lawn equipment.
» Over 60% of the petroleum-based polyurethane is replaced with soybean oil, a renewable resource.
» Some secondary backing materials are manufactured from recycled plastic bottles.
» Post manufacturing waste, coal ash, is used for added strength and dimensional stability.
» Lower impact on local landfills with a long product life cycle and all SYNLawn products are recyclable.
HeatBlock™ is scientifically proven to reduce the surface temperature up to 20% by altering the emissivity levels of the grass surface. It reduces the build-up of heat by reflecting infrared radiation from the sun.
Primer on Installation Process

- Proper ground preparation is essential to the life of the product. Temperatures must be above freezing for proper compacting.

- The proper amount of topdressing must be used, especially for areas with high traffic.

- Special topdressing can be used for pet odor control.

- SYNLawn is only as good as the installation.
Proper Ground Prep – remove top soil
Proper Ground Prep – Proper Grading and Elevation
Proper Ground Prep-Compacting
Proper Ground Prep — Layout
Proper Seaming
Proper Seaming
Proper Seaming
Rocks and Trees
Trees – drip lines for watering
Installation Techniques

» A typical commercial installation begins with a concrete curb around the border but may include side nailer boards, existing concrete nailers etc.
Installation Techniques

» Excavate approximately 4”
Installation Techniques

» Install and compact base aggregate and add optional odor reducing crystals
Installation Techniques

» Install composite perimeter board, securing every 2-3 ft with 12” galvanized spikes
Installation Techniques

» Install turf by nailing/stapling to composite nailer board at the seams as well as the edges.
Landscape Program
Example Applications
Example Applications

Hippodrome Building—INDEED Offices
Pet Program Added Value

» Healthy environment
  » No bugs, tics or spread of disease.

» Beautiful lawn
  » No dead grass or holes to fill.

» Control odors
  » Easy maintenance.

» Rodent control
  » Keeps rodents out of the lawn.
Pet Program Added Value

- Dogs stay clean
  - No more mud, dirt or grass tracked into the house.

- Optimal drainage
  - Can be used right after rain and the pet stays clean.

- Security techniques
  - Reduces or eliminates damage for destructive pets.
Odor Control

» Zeolite or Envirofill crystals for odor control: (either sub-base or as topical treatment)

SYN1440 Top for Infill

SYN140 for Base Material
Example Applications
Synthetic Turf

Color Innovations

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Some Advantages of SYNLaawn products on Playgrounds

» Synthetic grass is the most appealing surface for playgrounds.
» SYNLaawn provides credible and consistent standards of safety.
» SYNLaawn playground surfaces can be green in color and green in nature.
Value Added – Playgrounds

» Easily replaceable TrampleZones.™
» Maintains consistent safety protection without the maintenance cost of replenishment (gravel or mulch).
» Non-allergenic.
» Non-abrasive – softer touch.
» Aesthetics – natural grass appearance.
» No grass stains.
Value Added – Playgrounds

- Relatively easy to clean.
- Drains well – immediate use after rains.
- Stable in all climates.
- Cooler than other surfaces and doesn’t radiate heat.
- Qualifies for water rebates and LEED credits.
- Contains recycled content and renewable resources.
8-10’ Fall Height
Value Added – Playgrounds

» Solution for ANY fall rating and safety standards.

» The only artificial grass playground surface with CONSISTENT safety ratings over time.

» ADA accessible.
SYNLawn Applications Installed Over Asphalt
SYNLawn Applications Installed Over Asphalt

Washington Square Park
SYNLawn Applications Installed Over Asphalt

Before pictures of SYNLaawn being installed over asphalt at Sunset Park in New York
SYNLawn Applications Installed over Asphalt

After pictures of SYNLawn being installed over asphalt at Sunset Park in New York
SYNLawn Applications Installed Over Asphalt

Installation at M101 Public School in Manhattan
Integrated With Other Sports Park Applications
Roof Deck and Patio Program
Current Issues with Rooftops

» Aesthetics
  » Boring concrete or splintered wood surfaces.
  » Distorted rubber membrane or old tar surfaces.

» Usability
  » Many rooftops are made for service only.

» Safety
  » Restricted access & slick surfaces, fire ratings (SYNLawn makes only synthetic grass with Class 1 fire rating)
Green Rooftops vs. SYNLawn

» Natural Green Rooftops
  » Over a decade in the works.
  » Heavy weight of grass, soil and water.
  » High maintenance costs.
  » Eye sore if not kept up.
  » Sensitive to foot traffic.
Green Rooftops vs. SYNLawn

» SYNLawn
  » Aesthetics.
  » Light weight.
  » Extreme usability.
  » Water conservation.
  » Low maintenance.
  » Environmentally friendly.
Value Added -- Rooftops

» Creates outdoor living spaces.
» Creates entertainment areas outdoors – potential revenue stream for commercial buildings.
» Provides pet areas above ground.
» Lightweight with drainage built-in.
» Virtually no maintenance.
» Class I fire rating with nylon surface.
» Non-slip surface and wheelchair accessible.
» Increase property value with usable square footage.
» Easy to install with limited access.
Rooftop Applications

» Roof decks
» Commercial rooftops
» Concrete patios
» Concrete pool sides
» Terraces
» Balconies
Example Rooftop Applications
Example Rooftop Applications
Golf Program
Quest for Realism

» SYNlawn putting greens are proven to be the closest in performance to natural greens.

» Natural ball reaction from chips.

» Consistent ball roll.

» Designs follow strict specifications to be installed with natural golf course characteristics.

» Aesthetics – natural colors starting with lightest color for greens and darkest color for rough.
Value Added – Golf

» Proven realistic performance as tested by renowned golf teaching pro, best-selling author and NASA physicist Dave Pelz.
» Realistic aesthetics in color, grass height and installation.
» Consistent ball performance with nylon products as proven by golf consultant Dave Pelz.
» ‘GreensMaster Certified’ installations ensure best conditions for golf games.
Natural Greens
Example SYNLawn Applications
Example SYNLawn Applications

Video of Installation Process
Questions and Answers
Benefits to the City

• Virtually maintenance free - very low upkeep – Work Safe City friendly
• Water savings vs. Traditional Landscaping
• Handles high traffic and is extremely resilient
• Ideal for medians, slopes, lowlight areas
• Positive compliment to Communities in beautification programs
• 8-10 year prorated Warranty
Benefits to the City

- Helps beautify areas that otherwise have no option other than concrete/pavement or live plants and grasses
- Cost effective compared to other meridian options (Stamped concrete, xeriscaping)
- Saves water and easy clean up
- Quick install w/ minimal traffic interruption
- No infill required
Example area
Proposed Tree & Root Detail
Example: City of Windsor
Example: City of Windsor
Before & After
Example:
Highway 97 – Conceptual Comparison
Example: SYNLawn Median
SYNLawn Website

Indiana Website:
www.synlawn.com/Indiana

Corporate Site:
www.synlawn.com

Visitors can enter a zip code and go to the local Indiana landing page.