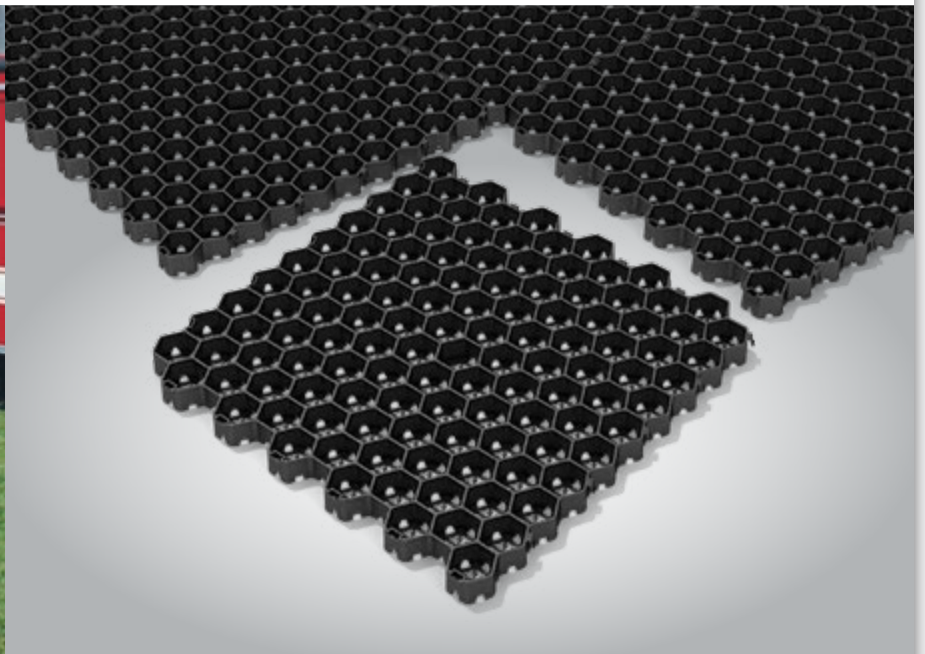


## Tufftrack™ Grass Pavers

A turf reinforcement, load transferring paving system designed to be placed directly on a lightly compacted planting base which is installed over an engineer specified compacted road base.

It can also be used for light load applications without road base by simply compacting the planting base per engineer specification. This system is designed to transfer vehicle weight directly to the supportive base course and prevent soil compaction. The web of interconnected honeycomb cells provides resistance from vehicular load as well as lateral containment that prevents the soil compaction that would inhibit healthy root growth. This system also provides a porous condition that allows rapid absorption and movement of stormwater. Tufftrack Grass Pavers can be infilled with soil per specification. Tufftrack Pavers have a compressive strength of 86,563 lbs. in an empty condition; 400,000 lbs. when filled with native top soil. The Tufftrack Grass Paver system has been used and accepted across the country for a wide variety of projects including emergency vehicle access purposes.

Additional information, details, and specifications can be found at  
<http://www.ndspro.com/permeable-pavers/grass-pavers/tufftrack-grass-pavers>  
For further technical support or assistance, contact: [techservice@ndspro.com](mailto:techservice@ndspro.com)

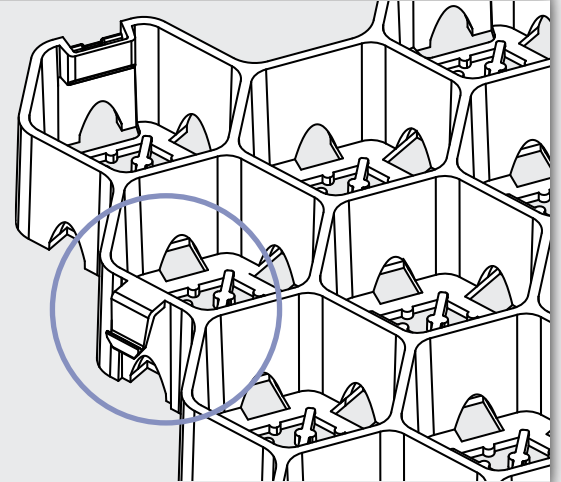


## Design Theory

Tufftrack™ Grass Paver has unique Tongue and Groove clips that minimize the paver mat separation and make for quick installation

The Tufftrack™ Grass Paver's secure locking clips prevent paver displacement or mat failure that could result from traffic load movement or changing ground conditions

The Tufftrack™ system has a high compressive strength bare product, meaning that Tufftrack does not rely on the fill material for load carrying



## Recommended Use

### Light Loads:

Golf Cart Paths  
Jogging Tracks  
Bike Paths  
ATV Paths  
Equestrian Parks  
Trail Reinforcements  
Runoff Areas

### Medium Loads:

Roadway Shoulders  
Residential Driveways  
Parking Lots  
Overflow Parking Area  
Truck & Cart Wash-Down Areas  
RV and Boat Access

### Heavy Loads/Fire Lane:

Fire Lanes  
Emergency Vehicle Access Roads  
Service Vehicle Utility Roads  
Truck Maintenance and Equipment Yards  
Construction Entrance Soil Stabilization  
*Consult NDS Design Worx during design phase  
when the intended use is semi trucks with trailers*

### Non-load Applications:

Erosion Control on Slopes (staking recommended)  
Erosion Control in Swales (staking recommended)

### Not Recommended for the Following:

Traffic on slopes exceeding a 10% grade  
To support tread driven vehicles



**The Tufftrack™ Grass Paver from NDS is the latest and most advanced product of its type on the market.** NDS has used its years of experience in the landscaping industry to create a product with all of the most desirable features.

The Tufftrack Grass Paver has a combined series of 120 nested hexagonal cells per paver cell with 12 connecting clips. This unique combination provides superior stability and durability.

## Product Specifications

**Material.** 100% recycled Polyolefin plastic (50% pre-consumer 50% post-consumer). Polyolefin is rugged, flexible and ideally suited for outside exposure and longevity. NDS uses UV inhibitors in the polymer structure to prevent breakdown in the strength of the paver.

**Manufacturing.** Manufactured in the USA: Lindsay, CA.

**Recyclability.** 100% recyclable.  
Please recycle whenever possible.

**Paver Size.** Each 24" x 24" x 1½" panel contains 120, 2½" nested hexagonal cells. Each cell has 6 arched cutouts at its base.

**Weight Per Unit.** 4.0 pounds per 24" x 24" section.

**Paver Details.** The top surface of the hexagonal cell walls is smooth and devoid of notches or grooves.

**Assembly Mechanism.** Each Paver section includes 10 sturdy Tongue and Groove locks per panel, which provide secure connection between panels.

**Chemical Resistance.** Tufftrack™ Pavers have superior chemical resistance and are totally inert.

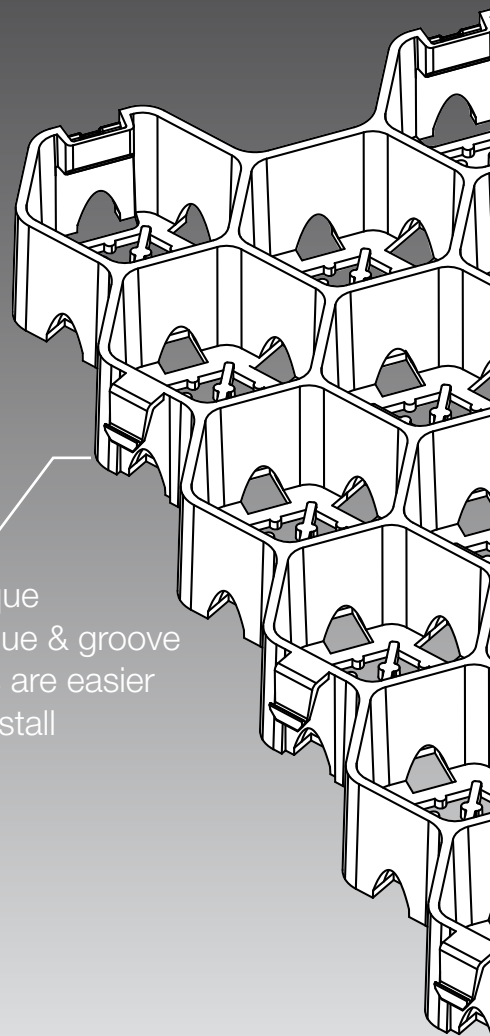
**Compressive Strength (Empty Pavers):** 86,563 lbs.

**Compressive Strength (Native Soil filled Pavers):** 400,000 lbs.

**Unique Product Features.** Tufftrack™ Pavers have features found in no other grass paver product in the industry. Tufftrack features a unique domed opening at the base of each hexagonal cell wall. This promotes a greater flow of water, oxygen and nutrients. Additionally, the slot opening allows root penetration to the soil below the paver and allows roots to grow between cells, promoting healthier grass. In areas where drainage is critical, Tufftrack increases water runoff capabilities. The Tongue and Groove latching system is another unique feature which provides exceptional stability, longevity, and ease of assembly.

Empty cells have compressive strength of 86,563 lbs.

Unique tongue & groove clips are easier to install





# Dare to Compare

## Tufftrack™ Grass Pavers are **25% STRONGER** than the competition

Compare the strength of NDS Permeable Pavers to the competition below.

Panel Pavers	Max Load Unfilled (lbs.)	Area (sq. in.)	Max Load (PSI)
<b>NDS Tufftrack™ TT24</b>	86,563	144	601
<b>TrueGrid Pro Plus™</b>	64,361	144	447
<b>TrueGrid Eco™</b>	53,797	144	374
<b>Presto GEOPAVE®</b>	35,682	144	248
<b>Presto GEOBLOCK® 5150</b>	35,220	144	245
<b>AirPave Grass Paver</b>	23,910	144	166
<b>NDS Max load filled cells: 400,000 lbs. (soil)</b>			

Pro Plus™ and Eco™ are trademarks of TrueGrid® Pavers. Presto GEOBLOCK® and GEOPAVE® are registered trademarks of Reynolds Presto Products, Inc.

## Case Studies – Tufftrack™ Grass Pavers

### Union High School Tulsa, OK

#### Emergency vehicle lane

When the Tulsa Independent School District prepared to open a new school, the design team needed to incorporate emergency vehicle access roads leading up to the building and athletic facilities. The Tufftrack® Grass Paver was selected for its high compressive strength of 81,744 psf and the flexibility either to sod or seed the area immediately following the 8,000 square foot installation.

### Hilton Garden Inn Elk Grove, CA

#### Emergency access lane

An emergency access lane needed to be added along the side of the property, but due to the large width of the lane and proximity to the hotel, the owners wanted a solution that would be aesthetically pleasing as well as functional. Tufftrack® Grass Pavers were selected and installed. Twelve years later the site was revisited and inspected. The Tufftrack® base is virtually indistinguishable from the rest of the landscape. The result was, and still is, a highly functional fire lane that can be enjoyed by their guests when not in use.



# Installation As Easy As 1-2-3



1

## Lay it out

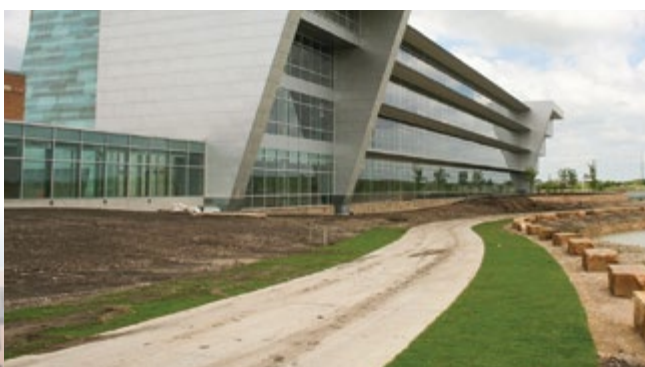
Lay panels out in square or offset pattern over prepared base to cover entire area



2

## Clip it together

Tongue-and-groove latching system connects easily without special tools to create an integral paver mat



3

## Add soil infill

Fill the cells with soil and top with sod or seed



For details & installation instructions visit [ndspro.com/specifications](https://ndspro.com/specifications)