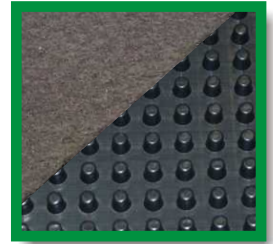


# J-Drain® Turfcore

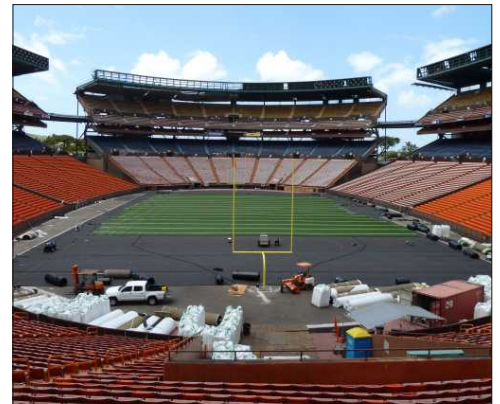
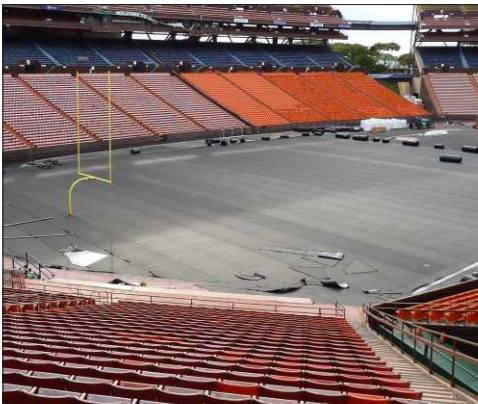
## Drainage Mat & Shock Pad



U.S. Patent # 7,128,497



### Aloha Stadium



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# JDR Enterprises, Inc.

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# J-DRain® Turfcore

## PEAK PERFORMANCE

**J-DRain Turfcore** has a dual function, provide peak performance protection and solve drainage problems, preventing the possible flooding caused by the inherent design conflicts of alternative stone based fields. **J-DRain Turfcore** is a 3-dimensional polypropylene flat drain with an impervious backing which blankets and seals the field while the core moves the water off the field replacing the expensive engineered stone base. **Turfcore** seals the sub-base at optimum moisture content, thereby eliminating any future movements typically caused by water exposure such as expansion/contraction of clay soils or freeze-thaw. **J-DRain Turfcore's** heat fused filter fabric surface passes 140 gallons of water per minute into the core, creating unobstructed free flow from the turf, regardless of storm intensity. With a compressive strength of 25,000 PSF and ½" open flow core, the water easily moves off the field at a rated 23 gallons per minute per linear foot. **Turfcore** polypropylene is tough, yet remains flexible for life, absorbs sound and does not become brittle. The heat fused filter fabric mechanically attaches to the core without the use of adhesives so you never have adhesives melting during hot installations and sticking to your feet or attaching to the turf backing, causing surface wrinkles. **J-DRain Turfcore** is 8 ft wide and up to 250 ft long, the widest and longest in the industry to offer the least amount of field seams and joints. The finished **Turfcore** surface is completely covered with filter fabric so there are no exposed gaps, joints or seams, preventing wind damage or any debris from entering the core. Unlike other pads, the fabric also provides help during the installation of the turf by keeping it from moving around during installation. **J-DRain's** factory built-in expansion/contraction controls assure **Turfcore** always lays perfectly flat with no weight on top and regardless of temperature or temp swings. Never have a field drainage problem or a problem with your drainage mat or blanket again, the problem is solved with **J-DRain Turfcore**, guaranteed.



## APPLICATIONS

### ◆ SYNTHETIC ATHLETIC FIELDS

- New Installations
- Re-Turf Installations
- Parking Deck/Rooftop Installations

### ◆ PET DRAINAGE

- Rooftop Walk Areas
- Dog Daycare
- Veterinary Dog Runs

### ◆ BASEBALL / SOFTBALL FIELDS

### ◆ UNDER GYMNASIUM MATS

- Eliminates Condensation/Mold

### ◆ PLAYGROUNDS

- Under Synthetic Surfaces
- Under Wood Chip Surfaces

### ◆ TENNIS/BASKETBALL COURTS

- Re-purposing of old facilities

# PRODUCT FEATURES

- ◆ **POLYPROPYLENE CORE**  
Flexible, strong, chemical resistant,  
sound absorbing, non-brittle
- ◆ **FABRIC HEAT FUSED**  
Eliminates adhesives that can melt at high  
temps causing the fabric to wrinkle or  
adhere to back of turf
- ◆ **LAYS & STAYS FLAT**  
Allows for expansion & contraction
- ◆ **8 FT. WIDE ROLLS**  
Widest available/Less seams
- ◆ **CUSTOM LENGTHS**  
Eliminates butt joints / Rolls can run from  
sideline with no joints
- ◆ **STRONG - NOT BRITTLE**  
High compressive strength
- ◆ **G-MAX CONTROL**  
Lowers and maintains G-Max & P-Max  
factors
- ◆ **HIGH FLOW RATE**  
High in-flow & flow rate / Can  
accommodate 4.4"/hr rainfall
- ◆ **SAVINGS**  
35% savings over cost of stone base  
Less Gravel-Less Labor-Less Transportation  
No base aggregate testing
- ◆ **RECYCLE**  
Can be ground up and re-used
- ◆ **REDUCES TIME**  
Reduces standard stone base installed by  
7-12 days
- ◆ **VTH TECHNOLOGY**  
Vertical to Horizontal Energy Transfer  
Firm surface for peak performance while still  
providing protection for hard landings
- ◆ **LIFETIME OF TURF GUARANTEE**  
Re-use for re-turfed fields
- ◆ **DUAL FUNCTION**  
Vertical to Horizontal Drainage  
Shock Attenuation Blanket



# J-DRain® Turfcore

▲ 8 ft. widths  
for easier installation

## Drainage Mat & Shock Pad

## What is Flex Control?

**J-DRain Turfcore** is subjected to extreme temperature changes in a Synthetic Turf Application as we move from day time to night time and summer to winter. The polypropylene polymer of the core will have significant dimensional change across the transverse and longitudinal direction of the field (See Fig 1). To control this dimensional change, **J-DRain Turfcore** is manufactured in short sections where typically the length and width are equal and then the independent sections are placed end to end and heat bonded to a geotextile fabric for maintaining the structural integrity of the roll and allowing for an easy installation (See Fig 2). A pre-determined space is left between the panels to accommodate for both expansion and contraction (See Fig 3). Rolls are merely placed side by side and unrolled across the short dimension of the field and overlapped along their edges (See Fig 4). Edge overlaps are bonded together using built in non-woven fabric overlap. This procedure provides for a more durable working platform for the turf installation.

Optional: Bonding tape on bottom side to re-seal (See Fig 2).

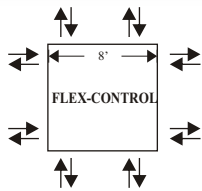


Fig 1. Turfcore Sections

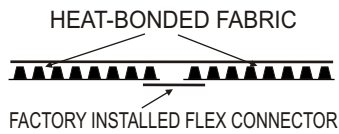


Fig 2. Heat-Bonded

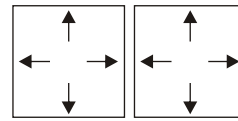


Fig 3. Spacing

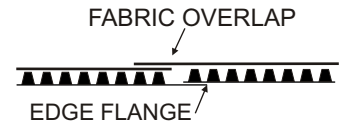
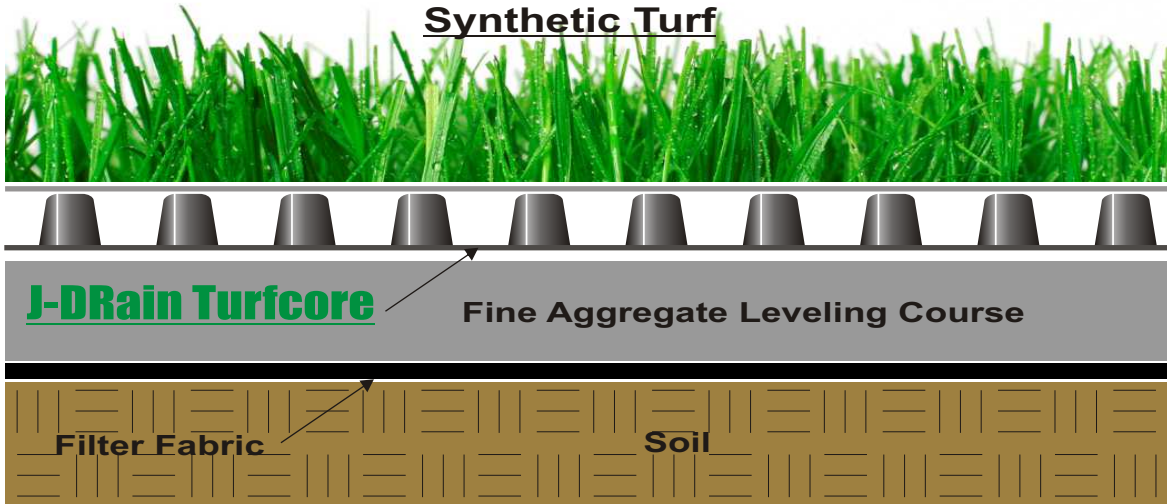


Fig 4. Edge Overlap



### Core

### Physical Properties

### Fabric

Compressive Strength (ASTMD-1621)	25,000 psf	(1196 kN/m <sup>2</sup> )
Thickness (ASTM-1777)	.40 In.	(10.16 mm.)
In-Plane Flow (ASTMD-4716)	23 gpm/ft width	(276 lpm/m)
(Q&518 psf & Hydraulic gradient = 1)		

Flow (ASTM D-4491)	140 gpm/ft <sup>2</sup>	(5698 lpm/m <sup>2</sup> )
Puncture (ASTM D-6241)	250 lbs.	(1.113 kN)
AOS (ASTM D-4751)	70 U.S. Sieve	(.212 mm)
Grab Tensile (ASTM D-4632)	100 lbs.	(.45 kN)
Mullen Burst (ASTM D-3786)	210 PSI	(1447 KpA)
U.V. Resistance (ASTM D-4355)	70% @500 hrs.	

**Roll**

Roll Weight:	300 lbs.	(134 kgs.)
Roll Width:	8 ft.	(2.44 meters)
Roll Length:	150 ft.*	(45.72 meters)*

\*Roll length can be made to custom lengths.

The information contained herein is believed by JDR Enterprises, Inc. to be accurate and is offered solely for the customer's consideration, investigation and verification. Determination of suitability for use is the responsibility of the user. JDR's Limitations, Limited Warranty, & Disclaimer along with Standard Terms & Conditions apply. See www.j-drain.com for more info. Limitations: J-DRain is resistant to chemicals in normal soil environments. However, some reagents may affect the performance of J-DRain. A JDR representative should be contacted for further information to determine the suitability of use of J-DRain in unusual soil environments. J-DRain should be limited to its exposure to ultra-violet sunlight. J-DRain should be backfilled or covered within seven days of installation. Disclaimer: All information, drawings and specifications are based on the latest published information at the time of printing. JDR reserves the right to make changes due to manufacturing improvements and engineering at any time. All physical properties are minimum average roll values (MARV). Standard variations of 10% in mechanical properties and 15% in hydraulic properties are normal.

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