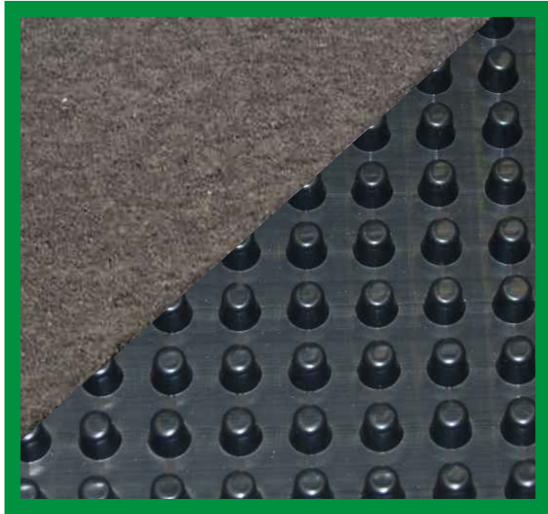


# J-DRain® TurfcORE

## Athletic Field Drainage



- ◆ Custom Roll Lengths
- ◆ 8 ½' Roll Widths
- ◆ Eliminates Coarse Grade Aggregate
- ◆ Less Seams Required
- ◆ Reduces Installation Costs
- ◆ High Flow Rates
- ◆ High Compressive Strength
- ◆ Enhanced G-Max Performance



**8 ½ ft. Width**

**Custom Roll Length**

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**JDR Enterprises, Inc.**

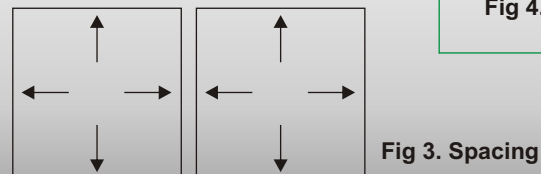
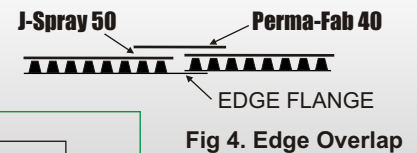
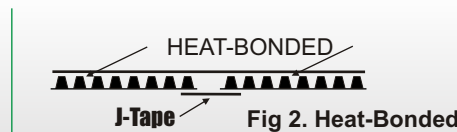
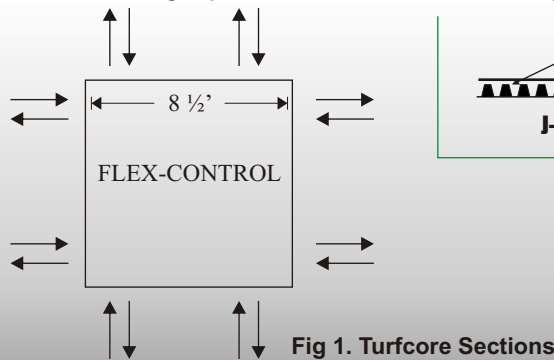
292 S. Main St., Suite 200 Alpharetta, GA 30009  
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# J-DRain<sup>®</sup> Turfcore

WITH FLEX CONTROL

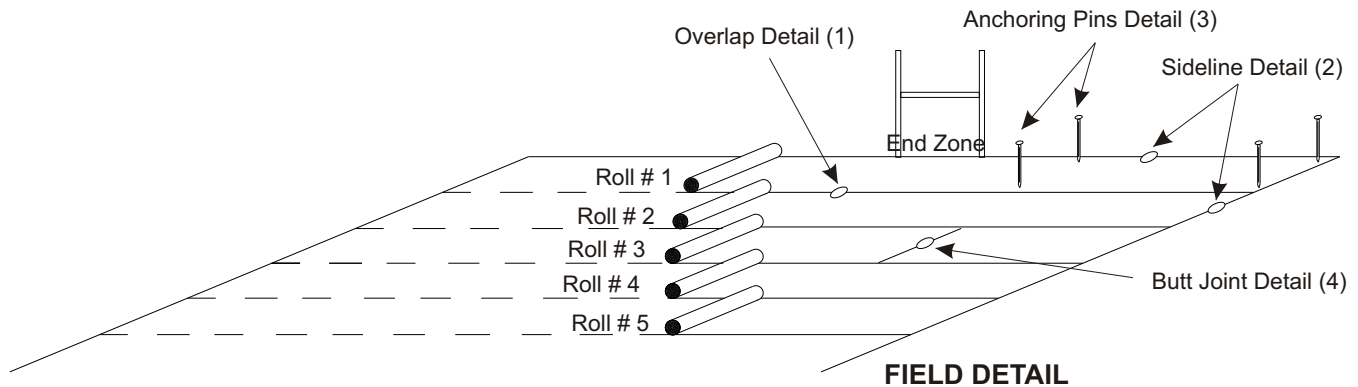
## What is Flex Control?

**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 **J-Spray 50** spray adhesive and **Perma-Fab 40** non-woven fabric cap. 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).

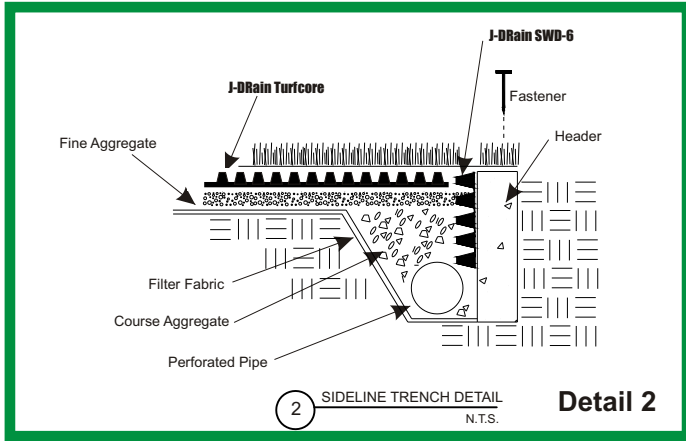
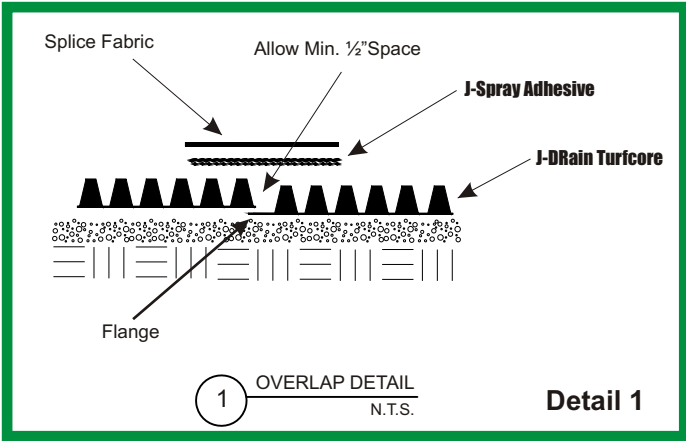


## Installation Guidelines

**NOTE: PRIOR TO THE INSTALLATION OF J-DRain Turfcore, REVIEW ALL INSTALLATION INSTRUCTIONS AND DETAILS WITH AN AUTHORIZED REPRESENTATIVE OF JDR ENTERPRISES, INC.**



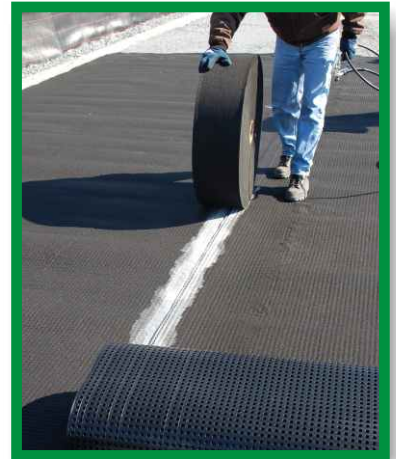
1. Upon completion of the Perimeter Header, nail **J-DRain SWD-6** to the Header as shown in Detail 2. The edge of the **J-DRain SWD-6** should be flush with the top of the Header as shown.
2. Complete all other field preparations.
3. Start the placement of the **J-DRain Turfcore** along the End Zone from right to left as shown in the Field Detail. The beginning edge of the **J-DRain Turfcore** should begin adjacent to the **J-DRain SWD-6** and the top surface of the **J-DRain Turfcore** should be flush with the top of the Header as shown in Detail 2. Anchoring pins should be installed while unrolling the **J-DRain Turfcore** as shown in the Field Detail and Detail 3.
4. As Roll 1 is being placed, begin unrolling Roll 2 as shown in the Field Detail paying particular attention to the overlap shown in Detail 1. Allow for a minimum 1/2" space of overlap between Roll 1 and Roll 2 as shown to accommodate any potential movement in expansion and contraction. Anchoring pins should be placed similarly to Roll 1.
5. Continue placing Roll 3, Roll 4, etc. In a like manner until the field is covered with **J-DRain Turfcore**. Alternately, **J-DRain Turfcore** can be installed just prior to the Turf placement across the field.
6. All roll Overlaps should be treated as shown in Detail 1. Spray overlap with **J-Spray** and roll on the Fabric Splice across the overlap as shown.
7. Butt Joints occur as one roll ends and another begins as shown in Detail 4. Spray Splice Sheet with **J-Spray** and place under Butt Joint as shown. Spray top of Butt Joint with **J-Spray** and roll on Splice Fabric as shown. Install Anchor Pins as needed as shown in Detail 4.



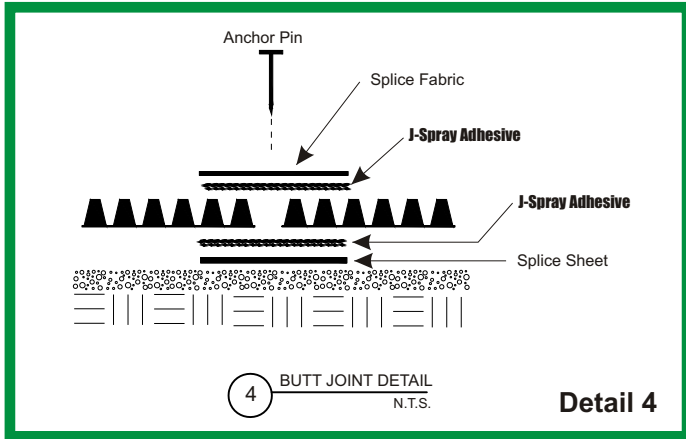
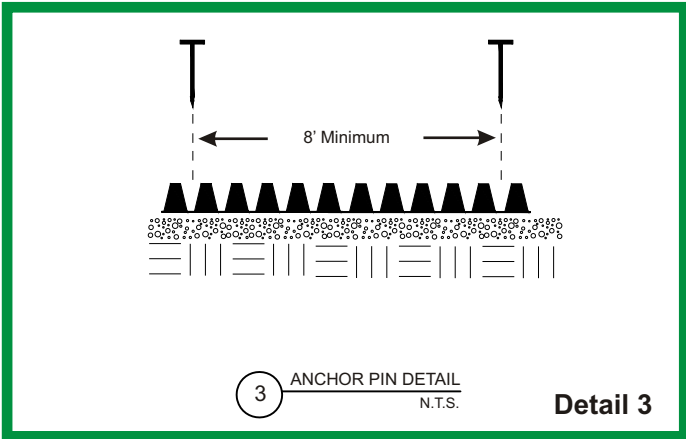
Overlap Detail: Step 1



Overlap Detail: Step 2



Overlap Detail: Step 3



Butt Joint Detail: Step 1



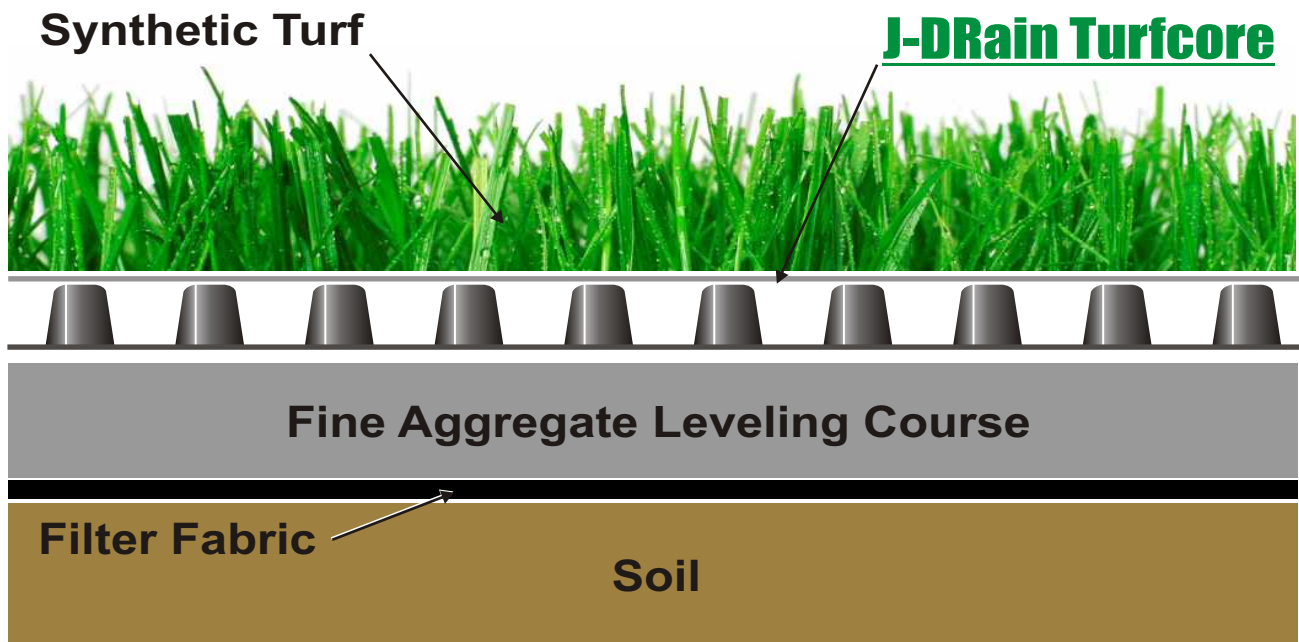
Butt Joint Detail: Step 2

# J-DRain<sup>®</sup> Turfcore

## Athletic Field Drainage

▲ 8 ½ ft. widths  
for easier installation

**J-DRain Turfcore** is designed as a technically advanced drainage for synthetic fields. **J-DRain Turfcore** eliminates all trenches across the field while speeding up construction and reducing installation costs. It consists of a heavy duty impermeable polymeric sheet cusped under heat and pressure to form a high compression, high flow drainage core. The core is cut into separate sheets to allow for expansion and contraction and then reconnected with tape and bonded to a layer of non-woven filter fabric. The filter fabric retains soil, rubber, and/or other particles allowing filtered water to pass into the drainage core. **J-DRain Turfcore** is designed to enhance G-Max performance as well as allowing water to move quickly and effectively to the perimeter drains. This drainage system eliminates any need for costly under field pipes and gravel. **J-DRain Turfcores'** rapid and efficient drainage helps ensure a dry surface and stability.



### Physical Properties

#### Core

#### Fabric

Compressive Strength (ASTMD-1621)	21,000 psf	(1005 kN/m <sup>2</sup> )
Thickness (ASTM-1777)	.40 In.	(10.16 mm.)
In-Plane Flow (ASTMD-4716) (Q&518 psf & Hydraulic gradient = 1)	23 gpm/ft width	(276 lpm/m)

Flow (ASTM D-4491)	140 gpm/ft <sup>2</sup>	(5698 lpm/m <sup>2</sup> )
Puncture (ASTM D-4833)	65 lbs.	(.30 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:	8.5 ft.	(2.45 meters)
Roll Length:	150 ft.*	(15.24 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.

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