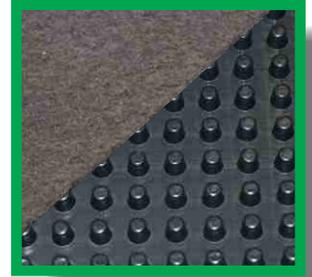


U.S. Patent # 7,128,497

J-Drain[®] Turfcore

Drainage Mat & Shock Pad



Installation Instructions



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Installation of Turfcore Drainage Mat

General Guidelines:

1. Precisely grade the base material to meet the Architect/Engineer specifications.
2. Turfcore drainage mat is designed to provide vertical to horizontal drainage under the synthetic turf for collection at the perimeter of the field, typically discharging into a perimeter trench per the Architect/Engineer specifications. Turfcore is NOT designed to be used as a waterproofing layer as it has seams. A separate layer, such as a poly liner, must be used between the base material and Turfcore if no water is desired in the base material.
3. It is recommended that the drain is installed during the **warmest portion of the day**, so that it is at or close to its maximum thermal expansion when installed. Unrolling the rolls and letting them relax prior to installation will help Turfcore lay flatter during installation. The rolls must also be pulled with carpet clamps to allow the expansion zones to be fully open.
4. Turfcore drain mat is best installed just before the turf installation.
5. Turfcore requires a minimum of 4-5 lbs./square foot of total infill weight of sand/rubber mix.
6. Final design to be provided by owner's field engineer/architect.

Recommended Installation Procedure – Should be followed for a successful installation

Perforated Turfcore over Trench

1. Install perforated Turfcore over the perimeter drains. Perforated rolls are to be placed over the perimeter trench running the length of the sideline. Pull on the roll with carpet clamps to open the expansion zones and secure the roll to the header/nailer. Be sure to stake the end of the roll before starting a new roll to ensure the expansion zones are fully open. The internal edge to be left unstaked. Repeat on opposite sideline.

PLEASE NOTE: If flanged option being used, be sure to have the flange facing the center of the field and the non-flanged edge to be nailed to the header/nailer.

Liner

1. Liner to be installed so the overlapping flaps are shingled toward the perimeter trench and seams taped.
2. Liner to be anchor pinned (minimum 6-3/4" barbed pin) terminating at the edge of the perimeter drain.



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Sideline-To-Sideline Installation of Turfcore

1. Start installing Turfcore at endzone (see Field Detail). Roll out Roll #1 (flanged edge toward center of field if flange product used) and triple anchor (minimum 6-3/4" barbed pin) at edge of perimeter trench (securing liner if used as well).
2. Identify expansion zones in Turfcore (Detail 3). Stretch taped expansion zone to open position by pulling on other end with carpet clamps; tensioning Turfcore rolls prior to anchoring. Anchor every other expansion zone in the center of the drain panel with anchor pin (See Field Detail Drawing). Be sure the anchor pin head is flush with the fabric of the drain mat. Maintain tension on drain mat when anchoring to ensure expansion zone remains open.
3. Upon reaching perforated Turfcore on far side, triple anchor Turfcore and cut any remaining drain mat (Detail 2)
4. Row #2 to start at edge of perforated Turfcore and anchor with three anchor pins.
 - *If flanged product being used, overlap the non-flanged edge on top of the flanged edge.
- 5. IT IS CRITICAL THAT A 3/4" GAP BE MAINTAINED BETWEEN ALL ROWS OF DIMPLES THOROUGHOUT THE FIELD!!!! THIS CAN BE ACHIEVED BY USING A TEMPORARY SPACER SUCH AS A 3/4" WOODEN DOWEL DURING PLACEMENT AND ANCHORING.**
6. If roll lengths do not reach from sideline-to-sideline, a butt joint must be used (Detail 4). Roll out Turfcore full length. Cut **fabric only** 3 dimples back on original roll and remove fabric. Lay adjoining roll over top of exposed dimples and nest using a rubber mallet. Pound top of dimples until the cones are nested and flush.
7. If butt joints are used, be certain the seams are staggered and do not line up with another butt joint from an adjoining panel.
8. Continue this process for Row #3 and the remaining field. Continue anchoring and maintaining the proper spacing between rolls for the full length and width of the field. Make sure the drain is installed flat and anchored down according to these instructions.
9. Non-Flanged edge of Turfcore has an overlap of fabric (Detail 1). Place 2" double-sided tape as close to edge of fabric as possible, remove release tape and secure over top of the adjoining panel. Roll over seam with weighted roller to ensure a secure bond. This overlap must be perfectly flat in order to maintain planarity when installing turf.
10. Before installing the turf over the drain, Turfcore should be checked for flatness and to ensure 3/4" spacing between the seams of the Turfcore. No overlaps of any kind are permitted. No wrinkles, buckling, waves or any grade deviation in excess of that outlined in the specification are permitted.

If you have any questions or need additional instructions, please contact our office at 1-800-843-7569.

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.

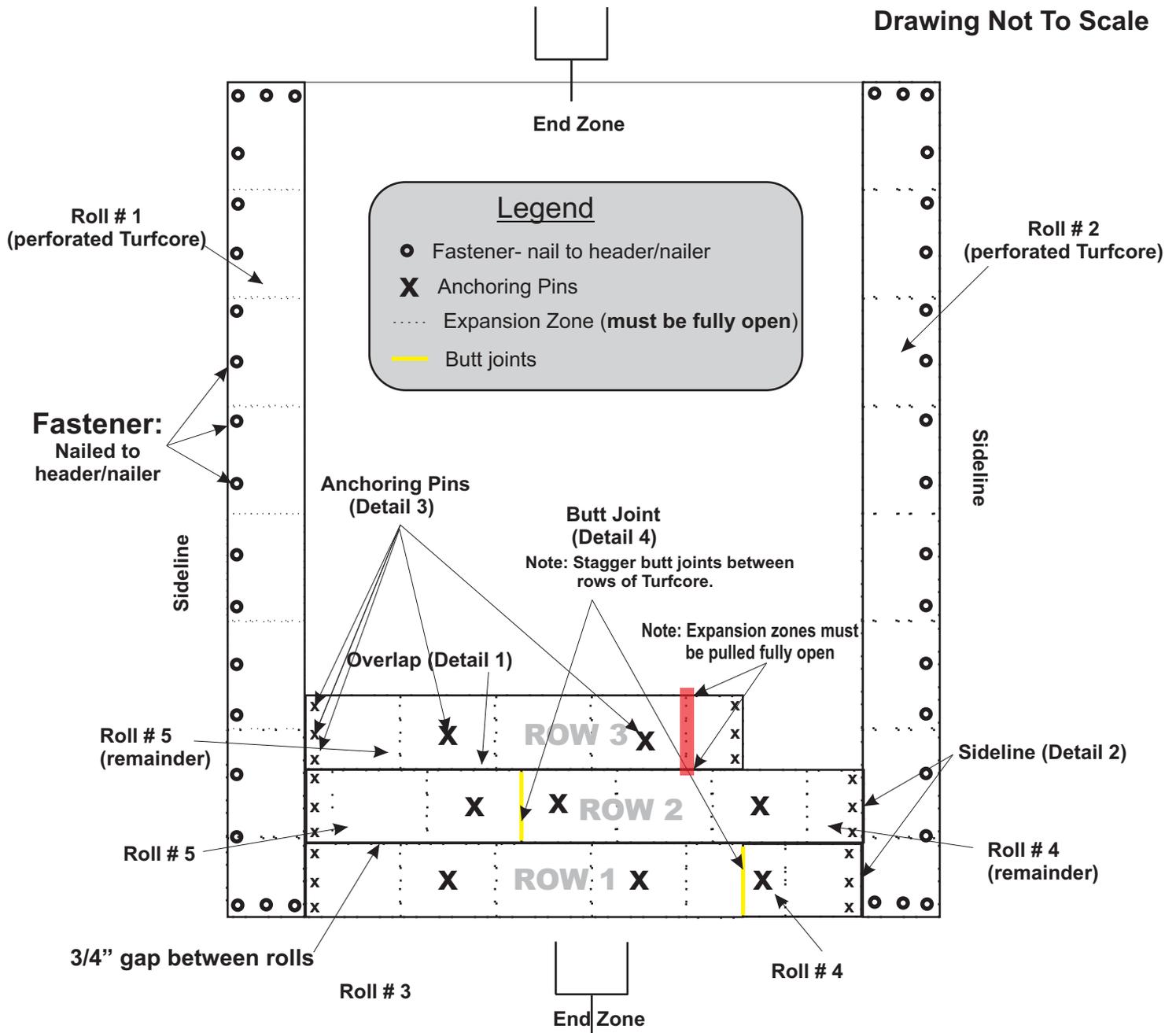
J-DRain® Turfcore

 WITH FLEX CONTROL

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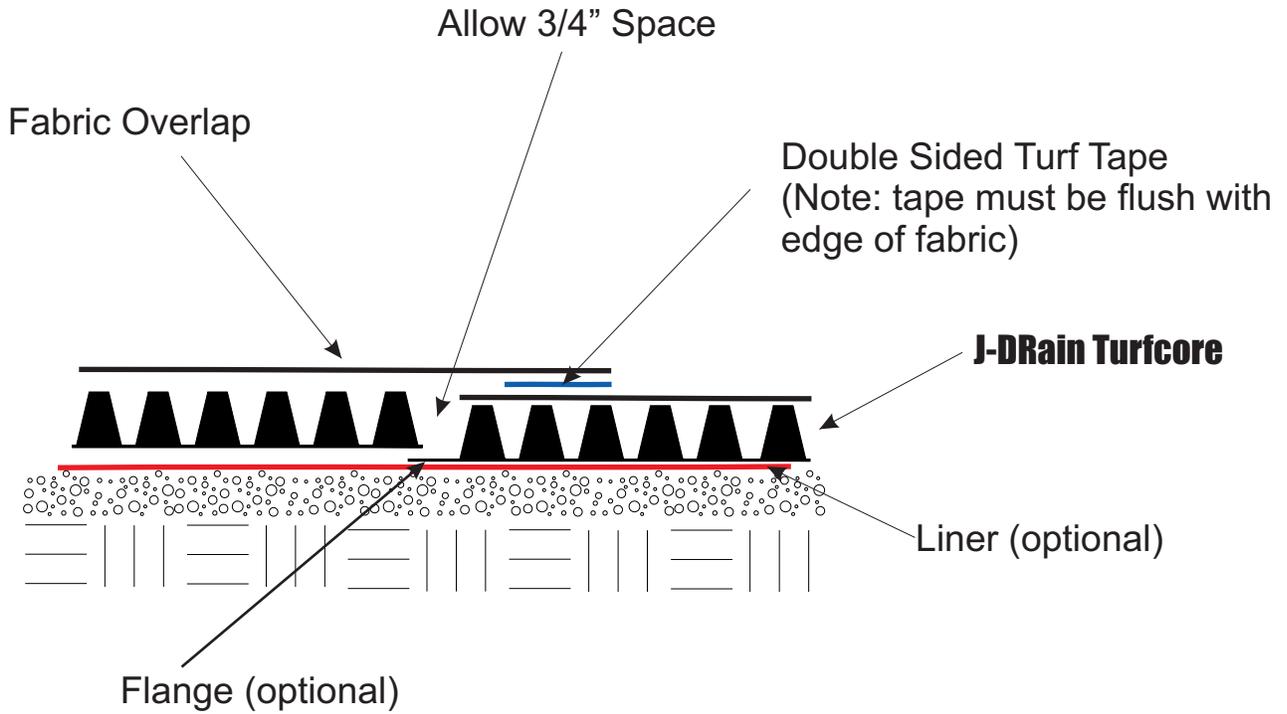
FIELD DETAIL

Drawing Not To Scale

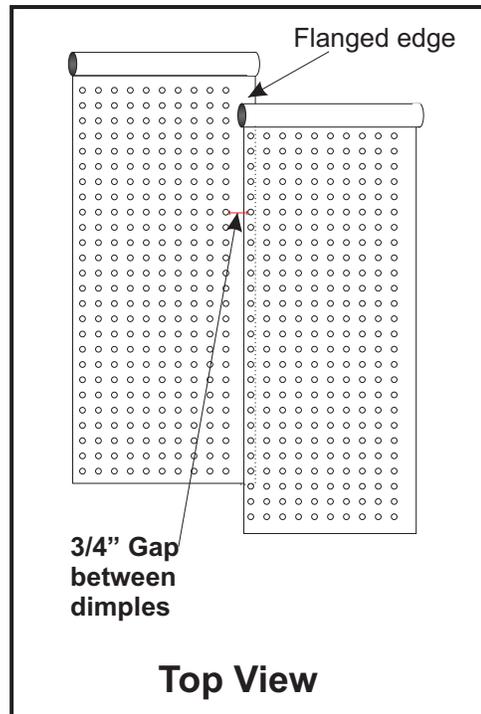


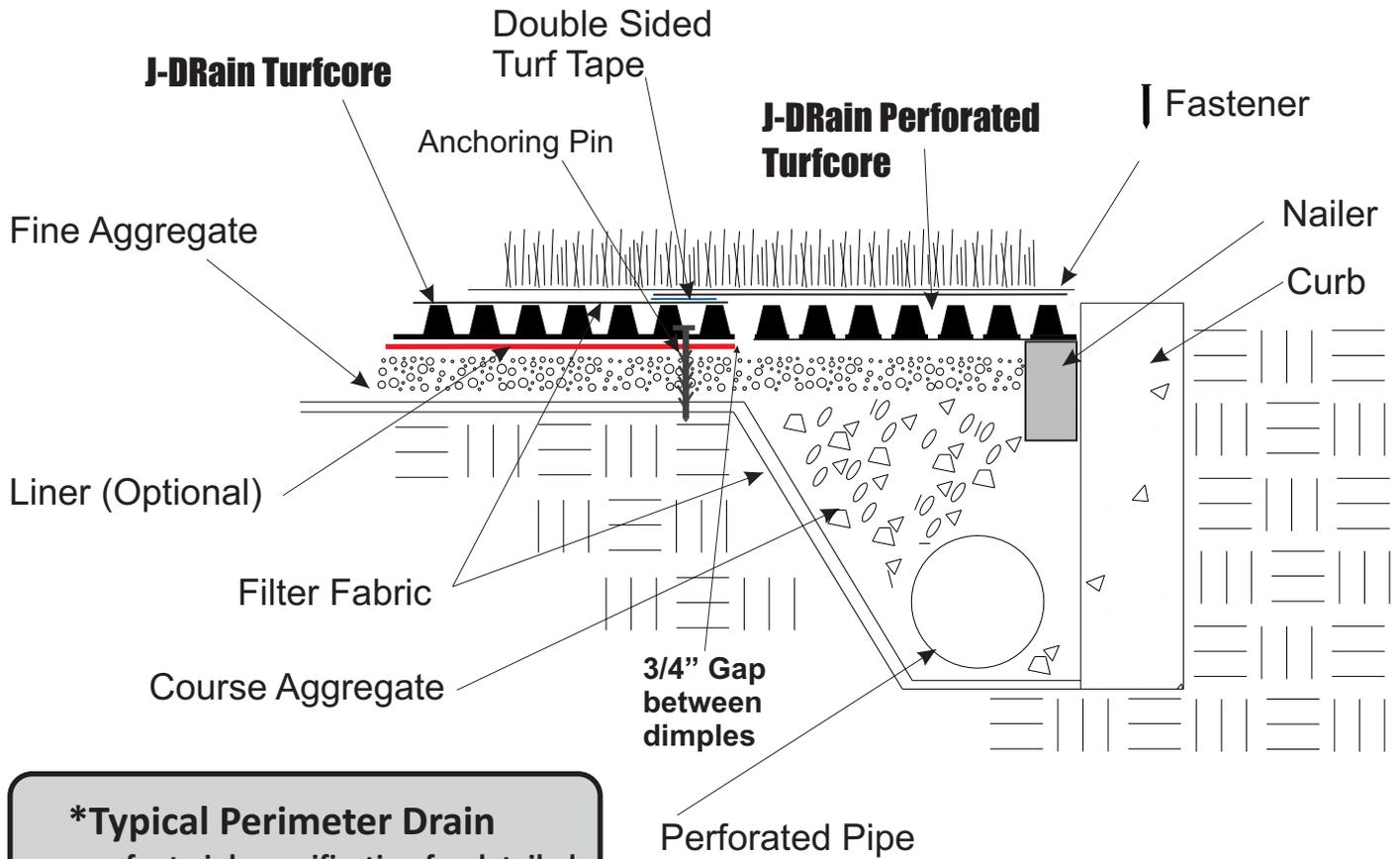
Key Notes:

- Expansion Zones must be pulled to fully open position using carpet clamps and secured as detailed on instruction page 3, item 2; as well as detail #3 on page 7.
- Turfcore requires a minimum of 4-5 lbs./square foot of total infill weight made up of sand/rubber mix.



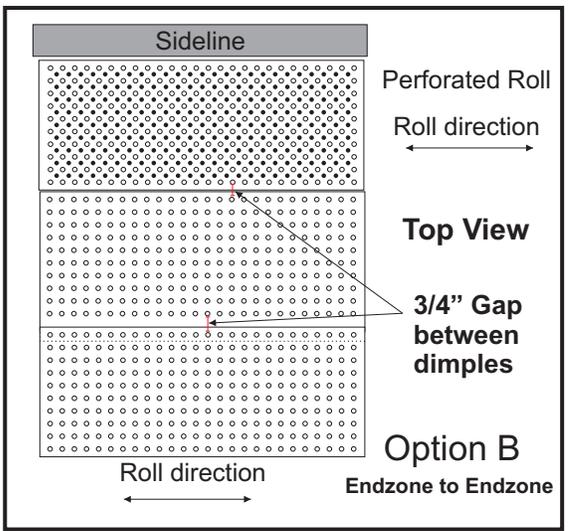
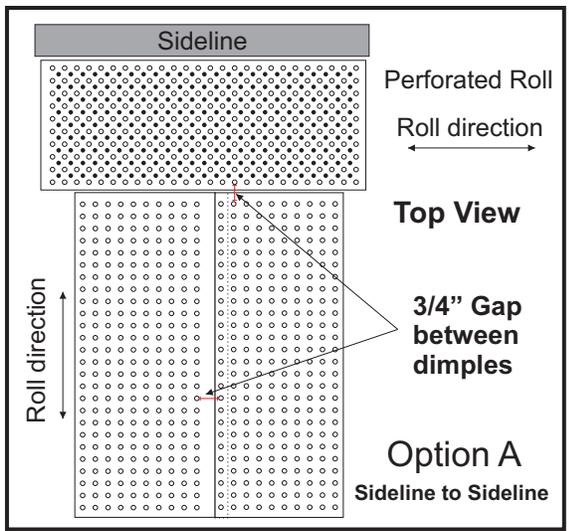
1 OVERLAP DETAIL
N.T.S.

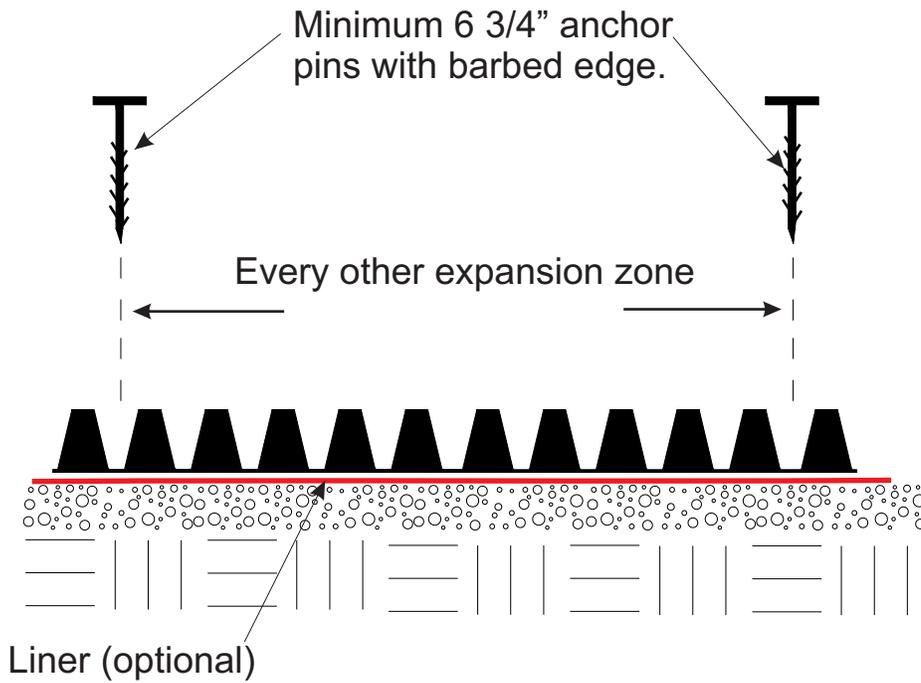




***Typical Perimeter Drain**
 - refer to job specification for detailed specific installation method

2 SIDELINE TRENCH DETAIL
 N.T.S.

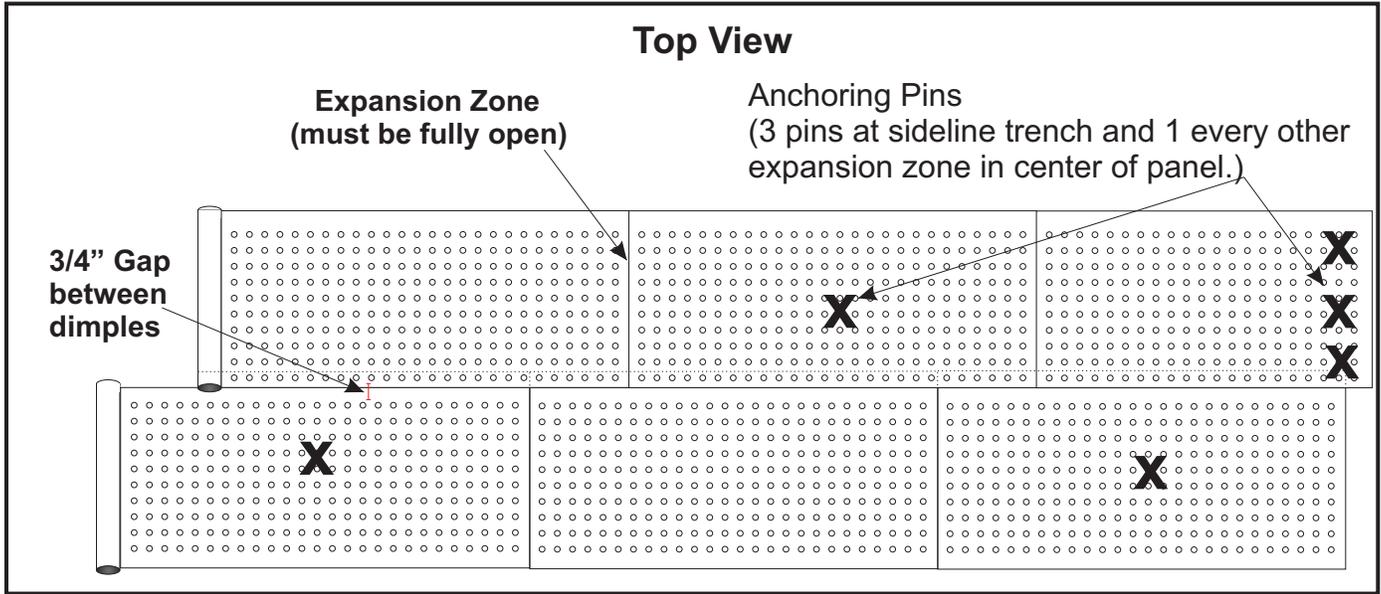




Pin Placement:

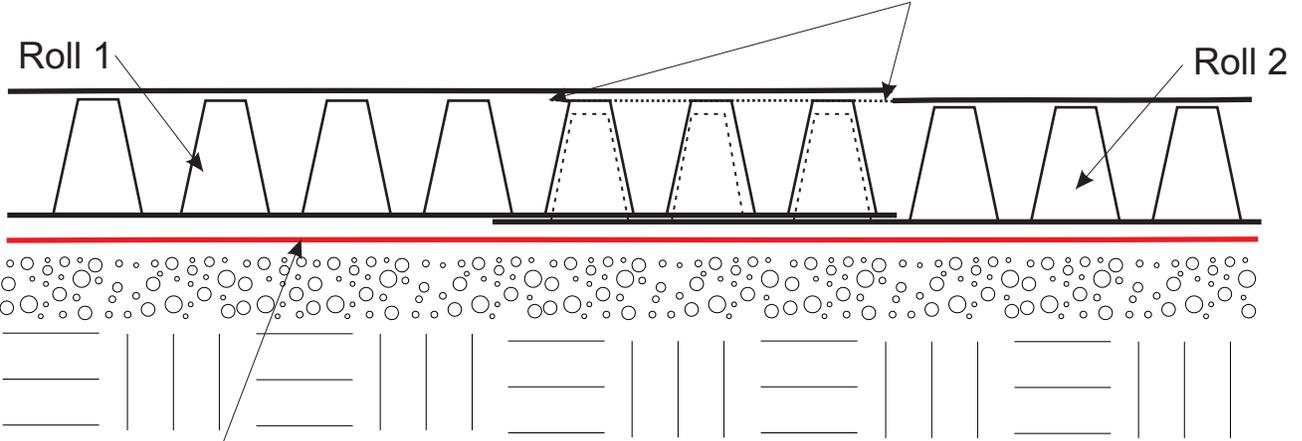
1. Anchoring Pin is best placed in center of cut panel, in between expansion zones.
2. Three Anchoring Pins should also be placed at sideline trench termination.

3 ANCHOR PIN DETAIL
N.T.S.



Note: Pound with rubber mallet until nested cones are flush.

Cut and remove fabric from roll 2, prior to nesting rolls together.



Liner (optional)



BUTT JOINT DETAIL

N.T.S.

