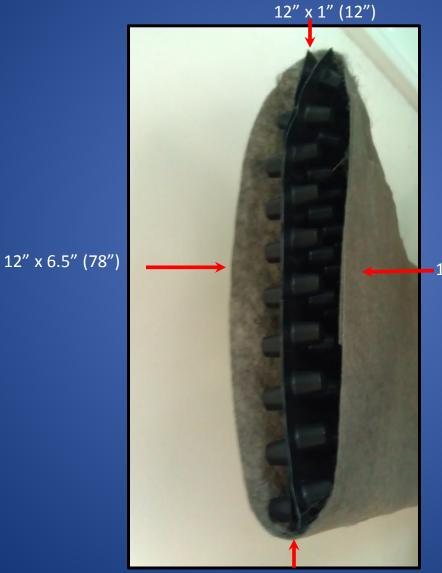
## Turf Drain: A Better Collector of Seepage Water



## Turf Drain Open Area Calculation



12" x 1" (12")

180 in<sup>2</sup> Surface Area x .85% Open Area = 153 in<sup>2</sup> Open Area

-12" x 6.5" (78")

### TECHNICAL NOTE

Dual Wall HDPE Perforation Patterns

TN 1.01 April 2007

### **Standard Perforation Patterns**

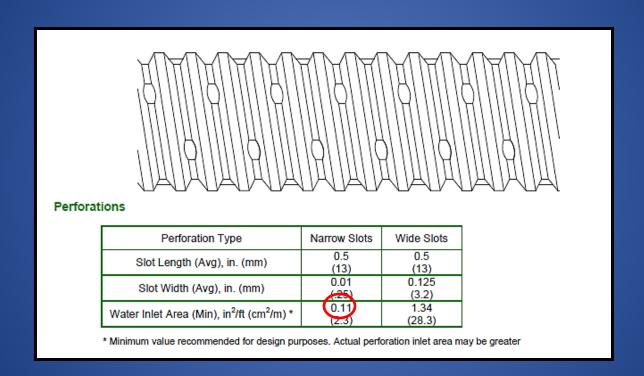
#### AASHTO Class II Perforation

The following terminology for perforations is derived from the applicable AASHTO specification. Differences between the specifications are covered in Table I. The perforations shall be circular and/or slotted. The perforations shall be located in the outside valleys of the corrugations. The water inlet area shall be no less than 0.945 in²/ft (20 cm²/m) for pipe diameters 4- through 10-inch (100 - 250mm), 1.42 in²/ft (30 cm²/m) for pipe diameters 12- through 18-inch (300 - 450 mm) and 1.89 in²/ft (40 cm²/m) for pipe diameters larger than and equal to 24 inches (450 mm). Table 1 and figure A below represent ADS standard perforation patterns for AASHTO Class II. Patterns indicated with an asterisk are a made to order product and should allow for additional lead-time when ordering.

Nominal I.D.		Perforation Type	Maximum Slot Length or Diameter		Maximum Slot Width		Minimum Inlet Area		Number of Perforations
in	mm		in	mm	in	mm	in²/ft	cm²/m	perf/ft
*4	100	Slot	0.875		0.125		1.0	21	54
*6	150	Slot	0.875		0.125		9	21	45
*8	200	Slot	1.18		0.125		1.0	21	36
*10	250	Slot	1.18		0.125		1.0	21	27
12	300	Circular	0.313	8	•	-	1.5	32	36
15	375	Circular	0.313	8	1	-	1.5	32	24
18	450	Circular	0.313	8	•	-	1.5	32	24
24	600	Circular	0.313	8	-	-	2.0	42	32
30	750	Circular	0.375		•	-	2.0	42	32
36	900	Circular	0.375		-	-	2.0	42	32
42	1050	Circular	0.375		-	-	2.0	42	32
48	1200	Circular	0.375		-	-	2.0	42	32
54	1350	Circular			-	-	2.0	42	
60	1500	Circular	0.375	anda ta	-	-	2.0	42	32

<sup>\*</sup> Denotes perforation pattern made to order

# **ADS Turf-Flow Pipe Specifications**



# Comparative Open Area

### **Comparative Open Area**

Product	Minimum inlet area/	Maximum inlet area/	Average inlet area/ in <sup>2</sup>	
ADS Turf-Flow 2" Perforated	0.11	Not given		Turf Drain has 1390 x the average opening area of 2" Turf Flow
ADS Turf-Flow 4" Perforated	1.0	5.90		Turf Drain has 45x the average opening area of 4" ADS
7155 Tall Flow 4 Tellorated	1.0	3.30	3.43	
Turf Drain	153	153	153	

