

## StormKeeper™ Sediment Strip

### Product Note

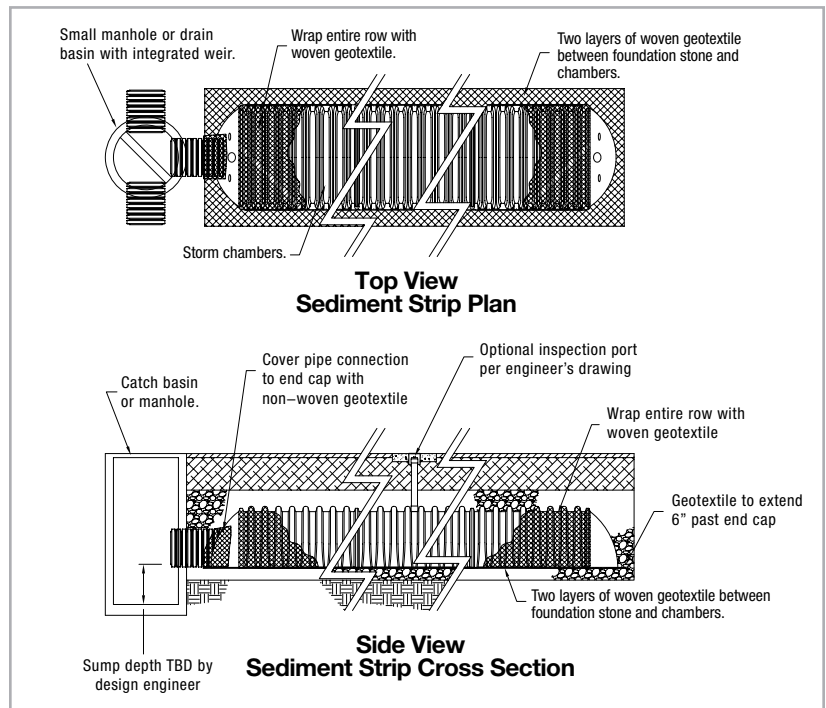
The StormKeeper™ Sediment Strip is an NJCAT verified water quality treatment device that can easily be incorporated into any system layout by providing three additional features to a designated row of chambers:

**Flow Diversion** - The initial storm water flows from a rain event (i.e. the first flush) are routed directly to the Sediment Strip via a small manhole or drain basin with an integrated diversion weir, allowing storm water to first fill the designated row before overtopping the weir and spilling over into the remaining rows.

**Sediment Confinement** - The above-mentioned weir places the Sediment Strip in a sump condition where solids are captured. Confining sediment in the designated row is achieved by installing the Sediment Strip chambers atop a double-layer of woven geotextile.

**Maintenance Access** - In order to sustain the water quality benefits the Sediment Strip must be accessible for cleaning operations. The diversion structure provides suitable access for water-jetting equipment to propel into the designated row and pull back material into a small sump where it can be vacuumed out.

*A Manufactured Treatment Device  
84% TSS Removal by Filtration  
NJDEP Laboratory Protocol Assessment  
NJCAT Technology Verification*



**Table 1 identifies the results of all verified claims.**

#### Summary of Verified Claims<sup>1</sup>

Treatment Rate (gpm/ft <sup>2</sup> )	Underlying Geotextile Layers	NJDEP Test Sediment	Mean Particle Concentration (mg/L)	TSS Removal Efficiency
4.0	2	1-1000μ	200	84%

<sup>1</sup>Verification testing of the Lane Enterprises SK75 StormKeeper™ Chamber Sediment Strip in accordance with the NJDEP Laboratory protocol to assess total suspended solids removal by a filtration manufactured treatment device, 2013 (by Alden Research Laboratory, their Report No. 1162LESSCSVT, dated October 2016).

**NOTE:** NJCAT verification of the claims were achieved by wrapping the sediment strip with a woven geotextile.

**Table 2 shows the performance properties per chamber.**

StormKeeper™ Sediment Strip			
Chamber Model	Chamber Storage	Chamber Footprint	Treatment Rate
SK75	46.5 cf	27.98 sf	0.156 cfs
SK180	113.6 cf	44.82 sf	0.250 cfs