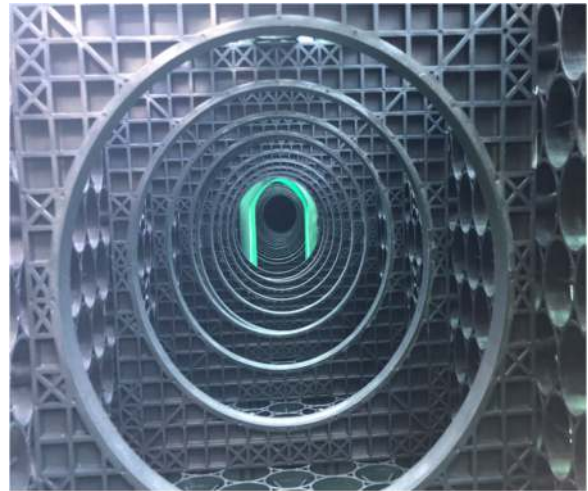


R-TANK[®] TREATMENT ROW SIZING

The R-Tank Treatment Row is designed to capture the water quality flow or “first flush” as defined by a regulatory or permitting agency. The system consists of a series of modules utilizing open plates for maintenance access encapsulated by filter fabric and connected to a nearby manhole. The fabric-wrapped modules provide filtration and promote settling of pollutants.

Using ASTM C1746/C1746M-12 TRI Environmental completed full-scale testing in their South Carolina lab to determine the relationship between total suspended solids (TSS) removal and hydraulic load rate. This testing determined that the hydraulic loading rate necessary to achieve 80% TSS removal is equal to 0.062 cfs/ft² or 0.191 cfs per module. Based on this information the sizing of the treatment row is as follows:



R-Tank^{HD} Treatment Row Access Module

$$\text{\# of Treatment Modules} = \frac{\text{Design Flow Rate (cfs)}}{0.191 \text{ (cfs)}}$$

