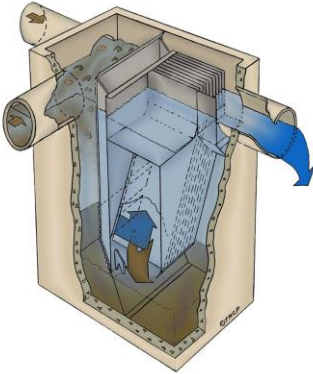


Terre Kleen

Terre Kleen™ uses the inclined plate sedimentation technology (US Patent 6,676,832 B2) in the stormwater industry.



The Terre Kleen™ separator is contained within a HS-25 precast concrete structure. Each stacked overlapping plate is inclined 55°, creating a settling cell containing 6.4 ft² of horizontally projected sedimentation surface area.

The precast concrete structure has two (2) chambers.

The primary chamber captures oil, grease, trash and debris and coarse sediment.

The storm water exits through a screen and enters the inclined plate chamber.

The sediment slides on the inclined surfaces to a collection area located below the plates.

The Terre Kleen is installed on-line. Flows greater than WQ, enter the internal flow through duct.

Maintenance: When the captured sediment reaches the recommended maintenance levels it must be removed.

Terre Kleen Inclined Plate Design Effect

	TK 09	TK 18	TK 27	TK 36	TK 45	TK 54	TK 63
Structure Dimensions	4.5 x 7	6.5 x 7	8.5 x 7	10.5 x 7	12.5 x 7	14.5 x 7	16.5 x 7
Structure Footprint	31.5 Ft ²	45.5 Ft ²	59.5 Ft ²	73.5 Ft ²	87.5 Ft ²	101.5 Ft ²	115.5 Ft ²
Primary Chamber Surface Area	12.4 Ft ²	17.9 Ft ²	23.4 Ft ²	28.9 Ft ²	34.4 Ft ²	39.9 Ft ²	45.4 Ft ²
Secondary Chamber Surface Area	16.9 Ft ²	24.4 Ft ²	31.9 Ft ²	39.4 Ft ²	46.9 Ft ²	54.4 Ft ²	61.9 Ft ²
Inclined Plate Projected Surface Area	57.7 Ft ²	115.4 Ft ²	173.0 Ft ²	230.8Ft ²	288.5 Ft ²	346.1 Ft ²	403.8 Ft ²
Total Sedimentation Surface Area	87.0 Ft ²	157.7 Ft ²	228.3 Ft ²	299.1Ft ²	369.8 Ft ²	440.4 Ft ²	511.1 Ft ²
Inclined Plate Surface Area Effect	276%	347%	384%	407%	423%	434%	443%
MTFR	1.27 cfs	2.31 cfs	3.34 cfs	4.37 cfs	5.40 cfs	6.43 cfs	7.46 cfs
Loading Rate: Total Surface Area (gpm)	6.55	6.55	6.55	6.55	6.55	6.55	6.55
Loading Rate: Structure Footprint (gpm)	18.09	22.78	25.19	26.68	27.70	28.43	28.99

Terre Hill Stormwater Systems
PO Box 10 Terre Hill, PA 17581

www.terrestorm.com

Gene LaManna 610 621 8960
 717 445 3111

glamanna@terrehill.com

Dale Groff 610 496 1296

dgroff@terrehill.com

Tim Strayer 484 797 1491
 717 445 3116

tstrayer@terrehill.com

Serguei Diaz 717 445 3114

sdiaz@terrehill.com