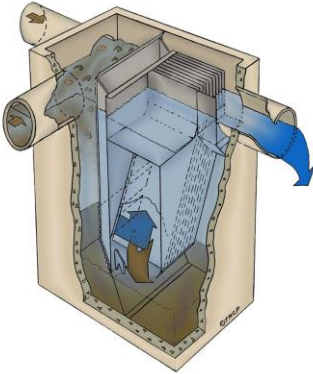


## Terre Kleen

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 ft<sup>2</sup> 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 <sup>2</sup>	45.5 Ft <sup>2</sup>	59.5 Ft <sup>2</sup>	73.5 Ft <sup>2</sup>	87.5 Ft <sup>2</sup>	101.5 Ft <sup>2</sup>	115.5 Ft <sup>2</sup>
Primary Chamber Surface Area	12.4 Ft <sup>2</sup>	17.9 Ft <sup>2</sup>	23.4 Ft <sup>2</sup>	28.9 Ft <sup>2</sup>	34.4 Ft <sup>2</sup>	39.9 Ft <sup>2</sup>	45.4 Ft <sup>2</sup>
Secondary Chamber Surface Area	16.9 Ft <sup>2</sup>	24.4 Ft <sup>2</sup>	31.9 Ft <sup>2</sup>	39.4 Ft <sup>2</sup>	46.9 Ft <sup>2</sup>	54.4 Ft <sup>2</sup>	61.9 Ft <sup>2</sup>
Inclined Plate Projected Surface Area	57.7 Ft <sup>2</sup>	115.4 Ft <sup>2</sup>	173.0 Ft <sup>2</sup>	230.8Ft <sup>2</sup>	288.5 Ft <sup>2</sup>	346.1 Ft <sup>2</sup>	403.8 Ft <sup>2</sup>
<b>Total Sedimentation Surface Area</b>	<b>87.0 Ft<sup>2</sup></b>	<b>157.7 Ft<sup>2</sup></b>	<b>228.3 Ft<sup>2</sup></b>	<b>299.1Ft<sup>2</sup></b>	<b>369.8 Ft<sup>2</sup></b>	<b>440.4 Ft<sup>2</sup></b>	<b>511.1 Ft<sup>2</sup></b>
<b>Inclined Plate Surface Area Effect</b>	<b>276%</b>	<b>347%</b>	<b>384%</b>	<b>407%</b>	<b>423%</b>	<b>434%</b>	<b>443%</b>
<b>MTFR</b>	6.9 cfs	14.0 cfs	20.9 cfs	27.9 cfs	35.0 cfs	42.0 cfs	48.9 cfs
Loading Rate: Total Surface Area (gpm)	35.59	39.84	41.08	41.86	42.48	42.80	42.94
Loading Rate: Structure Footprint (gpm)	98.31	138.09	157.65	170.36	179.52	185.71	190.01

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