

**Terre Kleen Inclined Plate Design Effect**

	<b>TK 09</b>	<b>TK 18</b>	<b>TK 27</b>	<b>TK 36</b>	<b>TK 45</b>	<b>TK 54</b>	<b>TK 63</b>
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>	230.8 Ft <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>299.1 Ft<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>MTR</b>	1.27 cfs	2.31 cfs	3.34 cfs	4.37 cfs	5.40 cfs	6.43 cfs	7.46 cfs
Loading Rate: Total Effective Surface Area	6.55 gpm	6.55 gpm	6.55 gpm	6.55 gpm	6.55 gpm	6.55 gpm	6.55 gpm
Loading Rate: Structure Footprint	18.09 gpm	22.78 gpm	25.19 gpm	26.68 gpm	27.70 gpm	28.43 gpm	28.99 gpm