



In Ground Test Data: BaseGrid Geogrids

3904 Virginia Ave • Cincinnati, Ohio 45227 • Phone (513) 271-6000 • Fax (513) 271-4420

Table 1: Rut Depth Vs. Number of Cycles For Different Cross Sections – CBR = 3%

PRODUCT	U.R.	BaseGrid 22*	SS 1	BaseGrid 33*	SS2
CBR %	3	3	3	3	3
Base, mm	400	400	400	400	400
CYCLE, N	Max. Rut Depth, mm				
0	0.00	0.00	0.00	0.00	0.00
50	-20.06	#N/D	#N/D	#N/D	#N/D
100	-22.66	-2.25	-1.64	-1.24	-1.87
300	-27.20	-3.06	-2.55	-1.57	-2.04
500	-29.83	-3.33	-2.93	-2.01	-2.40
1000	-34.27	-4.19	-3.96	-2.35	-2.61
2000	-38.20	-4.78	-3.78	-2.76	-3.34
4000	-44.41	-5.51	-5.25	-3.72	-4.01
8000	-47.62	-6.81	-6.59	-6.25	-5.42

Table 2: Rut Depth Vs. Number of Cycles For Different Cross Sections – CBR = 1%

PRODUCT	U.R.	BaseGrid 22*	SS 1	BaseGrid 33*	SS2
CBR %	1	1	1	1	1
Base, mm	1000	500	500	500	500
CYCLE, N	Max. Rut Depth, mm				
0	0.00	0.00	0.00	0.00	0.00
50	#N/D	#N/D	#N/D	#N/D	#N/D
100	-5.13	-10.20	-9.86	-2.29	-3.93
300	-5.38	-12.79	-11.27	-2.56	-4.14
500	-5.76	-13.21	-11.37	-3.16	-4.96
1000	-7.24	-15.38	-15.74	-5.02	-6.33
2000	-8.09	-16.52	-16.83	-6.19	-8.10
4000	-9.67	-18.18	-19.79	-8.54	-10.46
8000	-12.35	-21.00	-24.87	-11.58	-15.95

Excerpted from, TENAX Technical Reference GRID-TE-3 “Full Scale In-Ground Tests for Geosynthetic-Reinforced Flexible Paved Roads”

*US Fabrics BaseGrid 22 & BaseGrid 33 are private label versions of the Tenax MS220 & MS330.