

# Erosion Control Technology Council



## Hydraulic Erosion Control Products Specification Chart

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Hydraulic Erosion Control							
			Typical Application	Typical Maximum Slope	Maximum Uninterrupted	Maximum	Minimum
Type <sup>2</sup>	Term	Functional	Rates	Gradient	Slope Length	C Factor <sup>4,5</sup>	Vegetation
		Longevity <sup>3</sup>	Lb/acre (kg/ha)	(H:V)	(ft)	(3:1 test)	Establishment <sup>6</sup>
1	Ultra Short Term	1 month	1500–2500 (1700–2800)	≤ 4:1	20	0.75	150 %
2	Short Term	2 month	2000–3000 (2250–3400)	≤ 3:1	25	0.5	150 %
3	Moderate Term	3 month	2000–3500 (2250–3900)	≤ 2:1	50	0.15	200 %
4	Extended Term	6 month	2500–4000 (2800–4500)	≤ 1:1	75	0.1	300 %
5	Long Term	12 month	3000–4500 (3400–5100)	≤ 0.5:1	100	0.02	400 %

<sup>1</sup> This table is for general guidelines only. Refer to manufacturer for application rates, instructions, gradients, maximum continuous slope lengths and other site specific recommendations.

<sup>2</sup> These categories are independent of rolled erosion control products (RECPs) categories, despite the identical names.

<sup>3</sup> A manufacturer's estimated time period, based upon field observations, that a materials can be anticipated to provide erosion control as influenced by its composition and site-specific conditions.

<sup>4</sup> "C" Factor calculated as ratio of soil loss from HECF protected slope (tested at specified or greater gradient, h:v) to ratio of soil loss from unprotected (control) plot based on large-scale testing.

<sup>5</sup> Acceptable large-scale test methods may include ASTM D 6459, or other independent testing deemed acceptable by the engineer.

<sup>6</sup> Minimum vegetation establishment is calculated as outlined in ASTM D 7322 being a percentage by dividing the plant mass per area of the protected plot by the plant mass per area of the control plot.

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