

G and E Raking Drain

G and E Raking Drain is a perforated High-Density Polyethylene Pipe (HDPE Pipe) used to lower groundwater levels and relieve groundwater pressure at depth. It is also prescribed as a contingency measure to address uncertainties in groundwater conditions behind slopes and potential adverse effects in the subsurface, e.g., from utility leakage. The drain comes in two sizes that comply with CEDD’s typical arrangement drawing no. C2403E.

Typical Assembling of Raking Drain and Accessories



Raking Drain Description

The pipe is made of High Density Polyethylene (HDPE) and is of 3-D perforated design with opening area to allow groundwater passage and an impermeable one third invert to collect and drain away

Raking Drain Properties

Product Description	Test Standard	Unit	Raking Drain 40	Raking Drain 65
Physical Data				
Length	-	m	4	4
Diameter	-	mm	40	65
Average Thickness	-	mm	4.5	5
Physical Properties				
Tensile Strength	ASTM D 638	kN/m ²	≥ 21,300	≥ 21,300
Flexural Strength	ASTM D 790	kN/m ²	≥ 6,800	≥ 6,800
Compressive Strength	ASTM D 695	kN/m ²	≥ 22,000	≥ 22,000
Opening Area Data				
Ratio of Opening Areas	-	%	≥14	≥8
Ratio of Circumferential Opening	-	%	50-70	50-70
Accessories				
Connection Coupler Diameter	-	mm	40	65
Connection Coupler Length	-	mm	≥ 200	≥ 200
End Caps	-	mm	40	65

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