

# G and E Raking Drain

G and E Raking Drain is a perforated High Density Polyethylene Pipe (HDPE Pipe) used for lowering the groundwater level and relieving groundwater pressures at depths. It is also prescribed as contingency measures to cater uncertainties in ground water conditions behind slopes and possible adverse effects of subsurface, e.g., from utilities leakage. The drain comes in two sizes that complies with CEDD 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
<b>Physical Data</b>				
Length	-	m	4	4
Diameter	-	mm	40	65
Average Thickness	-	mm	4.5	5
<b>Physical Properties</b>				
Tensile Strength	ASTM D 638	kN/m <sup>2</sup>	≥ 21,300	≥ 21,300
Flexural Strength	ASTM D 790	kN/m <sup>2</sup>	≥ 6,800	≥ 6,800
Compressive Strength	ASTM D 695	kN/m <sup>2</sup>	≥ 22,000	≥ 22,000
<b>Opening Area Data</b>				
Ratio of Opening Areas	-	%	≥14	≥8
Ratio of Circumferential Opening	-	%	50-70	50-70
<b>Accessories</b>				
Connection Coupler Diameter	-	mm	40	65
Connection Coupler Length	-	mm	≥ 200	≥ 200
End Caps	-	mm	40	65

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