Filterra Sizing for Attachment H Biofilter Equivalency

AREA A

Drainage Area Inputs

Drainage Area	ft^2	33106	
Runoff coefficient	-	0.82	
Time of concentration	min	30	
85th percentile, 24-hour depth	in	1.00	LA County
Long term reliable infiltration rate	in/hr	0.00	

Constants

LAX Airport 85th Percentile, 24-hour depth (for reference only)	in	1.02
Filterra hydraulic loading capacity	gpm/ft^2	1.45

Outputs

Stormwater Quality Design Volume	ft^3	2,262
Design Rainfall Intensity for Equivalent Long Term Capture	in/hr	0.320
Site Scaling Factor	-	0.98
Stormwater Quality Design Flow Rate	cfs	0.20

Equivalent Filterra Model

Adjusted Filterra Design Intensity	in/hr	0.340
Stormwater Quality Design Flow Rate	cfs	0.21
Required Filterra Area	ft^2	65
Filterra Model ID		6x12

Filterra Sizing for Attachment H Biofilter Equivalency

AREA B

Drainage Area Inputs

Drainage Area	ft^2	86249	
Runoff coefficient	-	0.82	
Time of concentration	min	30	
85th percentile, 24-hour depth	in	1.00	LA County
Long term reliable infiltration rate	in/hr	0.00	

Constants

LAX Airport 85th Percentile, 24-hour depth (for reference only)	in	1.02
Filterra hydraulic loading capacity	gpm/ft^2	1.45

Outputs

Stormwater Quality Design Volume	ft^3	5,894
Design Rainfall Intensity for Equivalent Long Term Capture	in/hr	0.320
Site Scaling Factor	-	0.98
Stormwater Quality Design Flow Rate	cfs	0.51

Equivalent Filterra Model

Adjusted Filterra Design Intensity	in/hr	0.340
Stormwater Quality Design Flow Rate	cfs	0.55
Required Filterra Area	ft^2	169
Filterra Model ID		FALSE

Filterra Sizing for Attachment H Biofilter Equivalency

AREA C

Drainage Area Inputs

Drainage Area	ft^2	44431	
Runoff coefficient	-	0.82	
Time of concentration	min	30	
85th percentile, 24-hour depth	in	1.00	LA County
Long term reliable infiltration rate	in/hr	0.00	

Constants

LAX Airport 85th Percentile, 24-hour depth (for reference only)	in	1.02
Filterra hydraulic loading capacity	gpm/ft^2	1.45

Outputs

Stormwater Quality Design Volume	ft^3	3,036
Design Rainfall Intensity for Equivalent Long Term Capture	in/hr	0.320
Site Scaling Factor	-	0.98
Stormwater Quality Design Flow Rate	cfs	0.26

Equivalent Filterra Model

Adjusted Filterra Design Intensity	in/hr	0.340
Stormwater Quality Design Flow Rate	cfs	0.28
Required Filterra Area	ft^2	87
Filterra Model ID		7x13