



**CAYMAN ISLANDS GOVERNMENT
DEPARTMENT OF ENVIRONMENTAL HEALTH**

**ENVIRONMENTAL HEALTH ENGINEERING SECTION
SWIMMING POOL / SPA PLAN REVIEW**

Application Form

General Data (To be completed by applicant):

Name of Applicant:

Mailing Address:

Telephone Number: |

Email Address:

Block / Parcel: |

Application Numbers (For official use):

Application Number:

Planning Ref.:

Design Parameters (To be completed by applicant):

Parameters	Data	Unit
1. General Data		
Pool type	<input type="text"/>	
Perimeter	<input type="text"/>	ft
Surface area	<input type="text"/>	sq ft
Volume	<input type="text"/>	gal
Deck width	<input type="text"/>	ft
Deck slope	<input type="text"/>	%
Bather load	<input type="text"/>	Persons
2. General Recirculation System		
Total dynamic head	<input type="text"/>	ft
Pump rating	<input type="text"/>	hp
Pump capacity @ TDH	<input type="text"/>	gpm
Turnover time	<input type="text"/>	hr
Skimming devices		
1. Skimmers only	<input type="text"/>	
1.1 Number of skimmers	<input type="text"/>	
2. Overflow gutters	<input type="text"/>	
2.1 Length of gutter	<input type="text"/>	ft
3. Overflow gutters and skimmers	<input type="text"/>	
3.1 Number of skimmers	<input type="text"/>	
3.2 Length of gutter	<input type="text"/>	ft



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Application Form (Cont'd)

4. Surge tank		
4.1 Surge capacity		
Number of returns		
Main drains		
1. Diameter of main drain		in
2. Number of drains		
3. Distance between drains		ft
4. Type of main drain cover		
5. UL flow rating		gpm
6. Cover dimensions		in
7. Open area		sq in
8. Grate velocity		fps
Balance/surge tank		
1. Balance tank capacity		gal
3. Filtration System		
Type of filter		
Filter area		sq ft
Filtration rate		gpm/sq ft
Allowable flow rate		gpm
4. Disinfection System		
Type of disinfectant		
Dosing rate		lb/day
5. Water Velocity		
Inlet velocity		
1. Diameter of inlet pipe		in
2. Area of inlet pipe		sq in
3. Flow rate through pipe		gpm
4. Maximum velocity		fps
Return velocity		
1. Diameter of return pipe		in
2. Area of return pipe		sq in
3. Flow rate through pipe		gpm
4. Maximum velocity		fps
6. Vanishing Edge / Therapy Jet Recirculation System		
Is system provided?		
Total dynamic head		ft
Pump rating		hp
Pump capacity @ TDH		gpm
Main drains		
1. Diameter of main drain		in
2. Number of drains		
3. Distance between drains		ft
4. Type of main drain cover		
5. UL flow rating		gpm
6. Cover dimensions		in
7. Open area		sq in
8. Grate velocity		fps



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Total Dynamic Head Calculation (To be completed by applicant):

Return line loss

Branch 1 Pipe size: in Flow rate: gpm

ID	Number	Equivalent Length (ft)	Total Length (ft)	H _L /100 ft (ft)	Head Loss (ft)
Straight					
Elbow					
Tees					
Valves					
Sub Total					0.0

Branch 2 Pipe size: in Flow rate: gpm

ID	Number	Equivalent Length (ft)	Total Length (ft)	H _L /100 ft (ft)	Head Loss (ft)
Straight					
Elbow					
Tees					
Valves					
Sub Total					0.0

Branch 3 Pipe size: in Flow rate: gpm

ID	Number	Equivalent Length (ft)	Total Length (ft)	H _L /100 ft (ft)	Head Loss (ft)
Straight					
Elbow					
Tees					
Valves					
Sub Total					0.0

Branch 4 Pipe size: in Flow rate: gpm

ID	Number	Equivalent Length (ft)	Total Length (ft)	H _L /100 ft (ft)	Head Loss (ft)
Straight					
Elbow					
Tees					
Valves					
Sub Total					0.0

Total return friction loss 0.0 ft



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Application Form (Cont'd)

Total Dynamic Head Calculation (Cont'd) (To be completed by applicant):

Skimmer line loss

Branch 1 Pipe size: [] in Flow rate: [] gpm

Table with 6 columns: ID, Number, Equivalent Length (ft), Total Length (ft), HL /100 ft (ft), Head Loss (ft). Rows include Straight, Elbow, Tees, Valves, and Sub Total.

Branch 2 Pipe size: [] in Flow rate: [] gpm

Table with 6 columns: ID, Number, Equivalent Length (ft), Total Length (ft), HL /100 ft (ft), Head Loss (ft). Rows include Straight, Elbow, Tees, Valves, and Sub Total.

Branch 3 Pipe size: [] in Flow rate: [] gpm

Table with 6 columns: ID, Number, Equivalent Length (ft), Total Length (ft), HL /100 ft (ft), Head Loss (ft). Rows include Straight, Elbow, Tees, Valves, and Sub Total.

Branch 4 Pipe size: [] in Flow rate: [] gpm

Table with 6 columns: ID, Number, Equivalent Length (ft), Total Length (ft), HL /100 ft (ft), Head Loss (ft). Rows include Straight, Elbow, Tees, Valves, and Sub Total.

Total skimmer friction loss 0.0 ft



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Application Form (Cont'd)

Total Dynamic Head Calculation (Cont'd) (To be completed by applicant):

Main drain line loss

Branch 1 Pipe size: in Flow rate: gpm

ID	Number	Equivalent Length (ft)	Total Length (ft)	$H_L / 100$ ft (ft)	Head Loss (ft)
Straight					
Elbow					
Tees					
Valves					
Sub Total					0.0

Branch 2 Pipe size: in Flow rate: gpm

ID	Number	Equivalent Length (ft)	Total Length (ft)	$H_L / 100$ ft (ft)	Head Loss (ft)
Straight					
Elbow					
Tees					
Valves					
Sub Total					0.0

Total main drain friction loss 0.0 ft

Total Dynamic Head:

Main drain line loss		ft
Return line loss		ft
Skimmer line loss		ft
Filter loss when dirty		ft
Heater loss		ft
Other losses		ft
Total loss		ft