## Swimming Pools

**Main pools (outdoor):**

1. Minimum internal dimension of 15 m x 6 m. Ideal internal dimension of 25 m x 12 m.
2. If pool is not rectangular in shape, at least one swimmable length (in one direction) should not be less than 15 m.
3. Ideal clear water depth of 1.2m (maximum 1.35 m).
4. Easy access to the water is provided from at least two locations in the pool.
5. Ensure that appropriate pool furniture is placed on site, prior to FM handover.
6. Shower point / area (may be open / covered) should be located in close proximity with easy access from pool.

**Kids pool:**

1. Minimum internal area of 20 sq. mtrs.
2. Minimum clear water depth of 0.750 m.
3. Easy access to the water is provided from one location in the pool.

**Indoor Pool:**

1. For use by adults/all ages: Minimum dimension of 12.5 m x 5 m (3 lanes). Ideal dimension of of 25 m x 9 m.
2. If only for use by kids, follow the norms under 'kids pool' above.
3. Ideal clear water depth of 1.2 m (maximum 1.35 m)
4. Temperature controlled

Other common pools may be designed as per requirements of landscape consultant and usage patterns.

**Private pools:**

1. Minimum clear water depth of 1.05 m and ideally, 1.2 m
2. Minimum internal dimensions of 5 m x 1.8 m (if pool is rectangular- ish in shape).
3. If pool is not rectangular in shape, at least one swimmable length (in one direction) should not be less than 5 m.
4. These norms do not cover private Jacuzzi's or private kids pools, which may be smaller / less deep.
5. Consider use of pre-fabricated pools to ensure quality and operational consistency/ease.

**All length and width dimensions are clear swimmable dimensions, excluding any swimming impediments eg. Staircase protruding into water, waterproofing and tiling etc.**

**For all public pools:**

1. Architecture to ensure Sign board containing following content is to be placed, close to entry to the pool area/deck (to be made part of Signage package):

"IMPORTANT – PLEASE READ BEFORE ENTERING POOL:

- All users agree to use the pool solely at their own risk and liability. The society and/or management shall not be held responsible in any manner whatsoever.
- Maximum water depth: ___ feet.
- No lifeguard on duty.
- This pool is meant for recreational use only.
- No diving permitted.
- Children below 12 year of age are allowed to use the pool only if accompanied by an adult.
- All users are requested to have shower before entering the facility.
- Do not use facility in case of rainfall or inclement weather."

2. Sign board for kids pool:
    - Maximum water depth :_____ feet
    - For use by children <= 12 years old.
    - All Users agree to use the pool solely at their own risk and liability. The society and/or management shall not be held responsible in any manner whatsoever.
    - No Lifeguard on Duty.
    - This pool is meant for recreational use only.
    - No diving/jumping permitted.
    - All users are requested to have a shower before entering the facility .
    - Do not use the facility in case of rainfall or bad weather.

3. Engineering to ensure that pool can be operated without tanker water. Necessary equipment to be included in design to ensure appropriate comfort levels (eg. pH, Chlorine, hard salts) and to enable the operator to measure the same (Water quality measurement instrumentation in the plant / filtration room).
4. FM to ensure following (once facility is operational) :
    - Blackboard to be placed in close proximity to pool area/deck, at easily visible location, displaying daily readings for:
        i. Temperature
        ii. pH level of water
        iii. Chlorine content of water
    - Pool Towels
    - Used Towel collection basket
    - Pool supervisor / guide during operational hours (not necessarily a trained lifeguard, but should know swimming to deal with emergency situations; preferable if he has some knowledge of CPR / life saving techniques and can also operate the pool's filtration and other systems)
    - Water testing kit
    - First aid kit

- At least one (ideally 2-3) ring buoy or similar floating device shall be kept ready with an attached throw rope with a length at least equal to the maximum width of the swimming pool or 15 m, whichever is less.
- A light strong pole not less than 3.6 m long, including a body hook.

**For all pools:**

1. Engineering to ensure that appropriate arrangements are made for filtration, water overflow / circulation and lighting while finalizing the pool design. It is to be ensured that bottom of pool is visible even during darkness.

2. Engineering to ensure that appropriate sealant is used to seal the joints of the finishes on surfaces in contact with water.

3. Appropriate space and access to be left for serviceability of pool and filtration system.

4. Wherever steps (not ladder) have been provided for ingress/egress from the pool, a SS handrail must be provided for support

5. For Pools with area of 150 sq.m or higher, use of Bigger size Mosaic chips (50mmX50mm, 75mmX75mm) is recommended, though not compulsory. For Pools having area less than 150 sq.m, smaller size Mosaic chips(25mmX25mm) can be used. (Reference image below-figure 1).

6. Indoor pools (common use or private) should have heating system (since water can get quite cold inside). Also if pool is located in any place where ambient air temperature falls below 24 C for > 2 months/year, the outdoor pools should also have heating system. In case of luxury or hi-end residential developments, the outdoor pools should have provision for heating, irrespective of climatic conditions.

7. To calculate the depth of swimming pool structure, take clear water depth + 30 mm (tiling) + 150 mm fill above slab for pipes etc (50 mm if no pipes are required on pool's horizontal bottom) + slab thickness (generally 200-250 mm).



Figure 1

8. Swimming pool depth to be engraved on the peripheral stone flooring-refer image 1 & 2 below, not to be painted.




Image 1

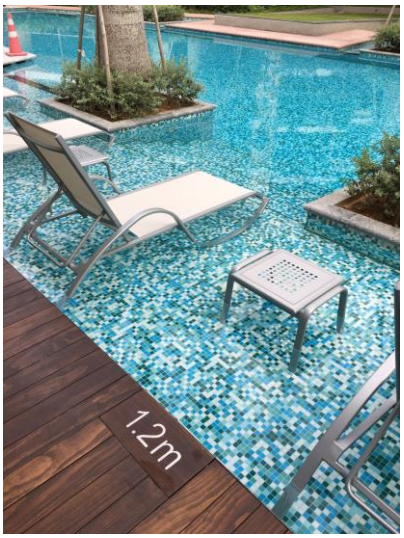



Image 2

9. Protuding columns within the swimming pool width to be avoided.Refer image 3

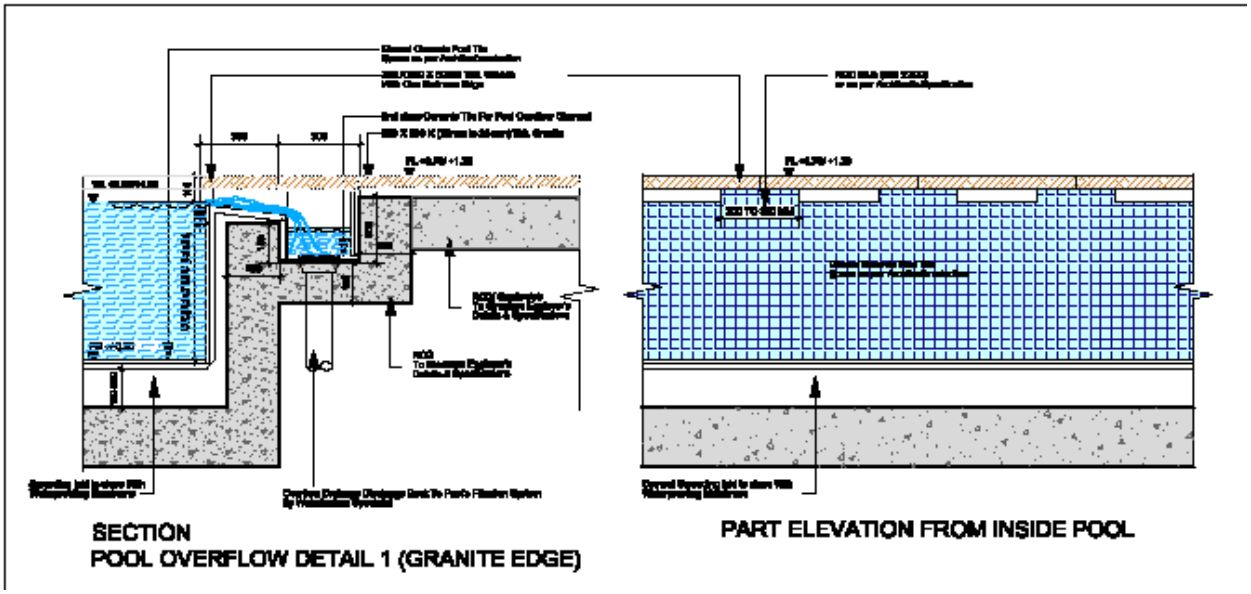


Image 3

10. Pool edge detail to be avoided:
    The top of deck slab matching with top of water level should not be preferred to avoid any nuisance by birds. (Refer attached photographs below)



11. Pool edge to be followed:
    a. Pool Overflow detail:
    Snapshot below.

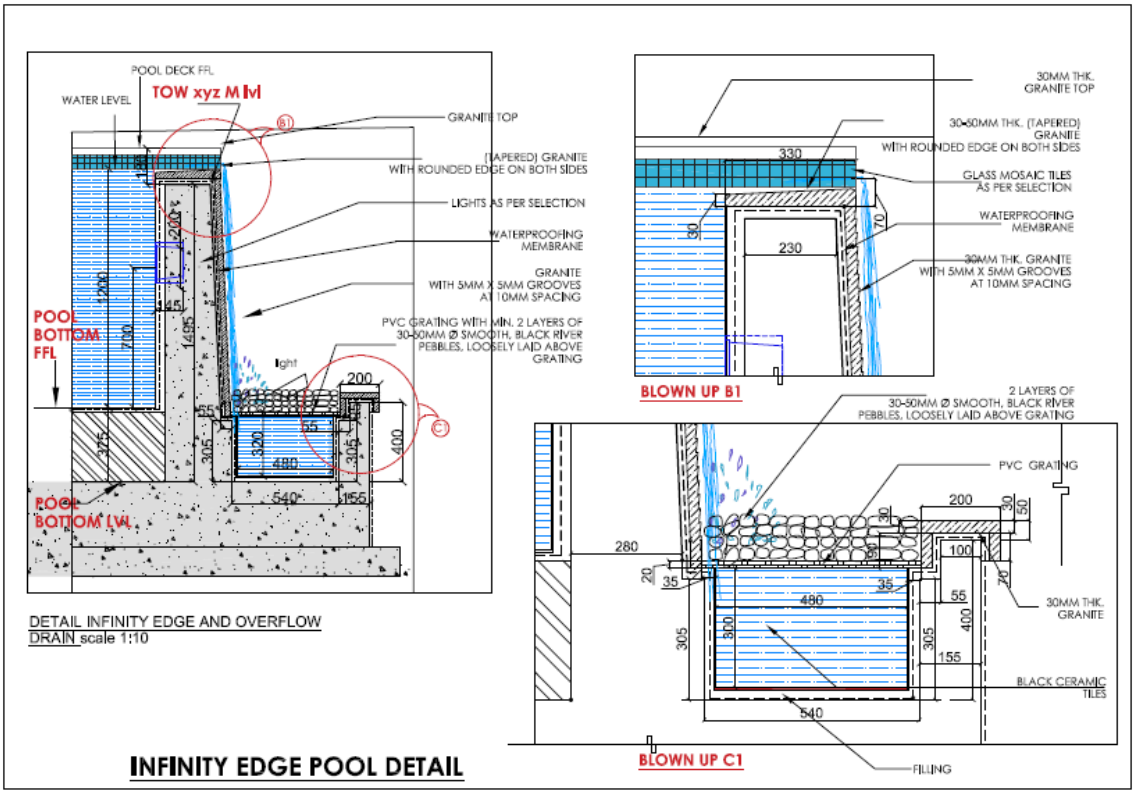



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b. Infinity edge detail:
Snapshot below.




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