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Nithin Rajan

Mphil Scholar, SRMIST,
Kattankulathur, Tamil Nadu,
India

Dr. YC Louis Raj

Assistant Professor, Department
of Physical Education, SRMIST,
Kattankulathur, Tamil Nadu,
India

Construction and types of swimming pool

Nithin Rajan and Dr. YC Louis Raj

Abstract

The purpose of the study is to show the different types of swimming pools, construction of a multipurpose pool, regulations to be served by the participants in the swimming pool. Based on the materials used, swimming pools are classified into four, and they are, Concrete swimming pool, Fiber glass composite swimming pool, above ground level swimming pool, Vinyl line swimming pool. Based on the size and shape, swimming pools are classified into four, and they are I, L, T and Z shape. All the competitions pools and warm up pools are in I shape and all the other pools are in L, T and Z shape. Recreation pools have some other shape also.

Keywords: swimming pool, construction of a multipurpose pool

Introduction

About swimming and swimming pool

1. Swimming was started in Britain in 1830.
2. Swimming was an event in the first modern Olympics held in Athens in 1896.
3. FINA (federation of international de natation association) is the association for water events and is started in 1908.
4. Sajjan Prakashan, participated in 2016 Rio Olympics for swimming representing India. He was Kerala boy lives in Idukki district.
5. Micheal Phelps was the record holder in swimming events. He has won 28 medals. Also he win 8 gold medals in Beijing Olympics, China. He was an American.

Types of swimming pool

Based on the materials used, swimming pools are classified into four, and they are,

1. Concrete swimming pool.
2. Fibre glass composite swimming pool.
3. Above ground level swimming pool.
4. Vinyl line swimming pool.

Based on the size and shape, swimming pools are classified into four, and they are, I, L, T and Z shape.

All the competitions pools and warm up pools are in I shape and all the other pools are in L, T and Z shape. Recreation pools have some other shape also.

Mainly pools are of three types, and are,

1. Competition pool or Olympic pool.
2. Warm up pool or mini Olympic pool.
3. Recreation pool or relaxation pool.

Competition pool or Olympic pool

Competition pool or Olympic pool is the standard swimming pool used for competitions. The dimensions of the pool is given below.

1. Length = 50 m (164 ft).
2. Width = 30 m (82 ft).
3. Depth = 2 m to 3 m (6-7 ft to 9-10 ft).
4. No: of lanes = 10.
5. Distance in between the rope = 2.5 m (7-8 ft).

Correspondence

Nithin Rajan

Mphil Scholar, SRMIST,
Kattankulathur, Tamil Nadu,
India

6. Gap in both side = more than 2.5 m.
7. No: of lanes, used for competition = 8 lanes.
8. Light intensity = 1500 lux (140 foot candles).
9. Water volume = around 2,500,000 lakh litres.

All the events are conducted in the competition pool. After athletics, swimming has more events. Competitions pools are in I shape.

Warm up pool or mini Olympic pool.

Mini Olympic pool or warm up pool is used to warm up the body before competition. The dimensions are given below.

1. Length = 25 m
2. Width = 13-14 m
3. Depth = 1.0 m – 2.0 m
4. No: of lanes = 6 lanes
5. In between the rope = 2 m
6. Gap in both side = minimum of 0.2 and maximum of 0.5 m

Beginners are also allotted to this pool only. Warm up pools are also in I shape.

Recreation pool or relaxation pool

Recreation pool or relaxation pool have no specific dimensions. It is used in the top of the buildings or flats and also used in hotels, bar etc. As on the name, it is a recreation process for a heavy stressed one.

Water polo pool

It's coming under the competition pool. It's a game pool. Dimensions are given below.

- Length = 30 m
- Width = 20 m
- Depth = 2 m

Construction of a multipurpose swimming pool

Construction of a multipurpose swimming pool includes planning and designing.

While planning and designing a multipurpose pool, we need to check out something. The following are those,

Location and orientation

How will the sunshade and wind affect your swimming pool? To help heat retention, choose a spot that gets plenty of sun. Isn't obstructed by buildings or large trees, and has some wind protection. Nearby trees and other plants can be a source of leaves and insects, so it's best to install your pool away from vegetation.

Council approval

Any swimming pool that contains more than 300 mm of water and uses a water filter needs to have council approval before it can be installed. Once you've decided the pool location and design, you'll need to submit plans and specifications to your council. Your pool supplier should be able to help you with your application.

Safety

Across New Zealand, pool safety regulations require that every swimming pool is surrounded by a childproof safety fence. You can choose from several types of fences, but you need to make sure that it meets relevant New Zealand standard safety requirements. It's also a good idea to choose a pool location that's easy to supervise.

Pool size and style

The type of pool you select will depend on a number of factors, including the size and layout of your backyard, how many people will use it, how, and how often you plan to use it. If you intend to do laps, you'll generally need a longer and deeper pool.

Aesthetic features

Whether you choose to make your pool the focal point of your backyard or create a harmonious outdoor environment, you should consider the aesthetic aspects of your overall design. The house architecture, garden design, lightning, water features and water falls will all impact your choice of pool design.

These are the main things that should take care on planning and designing of a swimming pool.

Following things are must be followed when a multipurpose swimming pool is constructed.

Office

An office is needed to maintain the statistical records and to store the equipments and it must be include safety lockers.

Medical or First aid

Medical or first aid area is needed. It must include life jackets, ropes, pipe, rescue tube etc.

Bathroom and Toilet

Bathrooms and toilets are needed.

Safety guard

A guard is needed which is specialized in swimming and first aid.

Regulations to be served by the participants in the swimming pool

The following steps are the regulations to be served by the participants in the swimming pool.

1. Medical certificate submission.
2. Must wear swimming dress (cap, glass, swimming suite)
3. Open wound, skin diseases and infectious persons are not allowed.
4. Use of toilet and bathing is must before swimming.
5. Walk along with concrete path only.
6. Don't swim more than one hour.
7. Don't swim alone.
8. Different caps are provided, Red – beginner, Black - average, White – advanced.
9. Women's are not allowed in menstrual periods.
10. Wash all cloths using CUSO4 (copper sulphate) solution before swimming.
11. Jewellery articles are not allowed in pool.
12. Minimum noof participants are only allowed in the given time.

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