

Clayton County Environmental Health Public Swimming Pool Program

Clayton County Board of Health Swimming Pool Regulations

Section -.05 Dimensional Design.

- (1) No limits are specified for the shape of swimming pools, spas or recreational water parks attraction except that consideration shall be given to shape from the standpoint of safety and circulation of the water.
 - (a) There shall be no protrusions, extensions, means of entanglement or other obstructions in the swimming area which can cause the entrapment or injury of the user.
 - (b) There shall be construction tolerances allowed on all dimensional designs. Overall length, width and depth in the deep end of a swimming pool may vary plus or minus three inches ($\pm 3"$). All other overall dimensions in a swimming pool and in a spa may vary plus or minus two inches ($\pm 2"$), unless otherwise specified. The designed waterline shall have a maximum construction tolerance at the time of completion of the work of plus or minus one-fourth ($\pm 1/4"$) for pools and spas with adjustable weir surface skimming systems and of plus or minus one-eighth inch ($\pm 1/8"$) for pools and spas with nonadjustable surface skimming systems.
 - (c) The size of pools shall be governed by the requirements of the activities for which the installation is intended.
- (2) **Walls:** Walls shall not be greater than 11° from plumb for a minimum depth of two feet nine inches (2'9") from the waterline in deep areas or two feet three inches (2'3") in the shallow areas. Below these depths the wall may be radiused to join the floor.
- (3) **Floor Slopes:** Floor slopes in pools shall, as a minimum, be in compliance with the following.
 - (a) All slopes shall be uniform.
 - (b) The slope of the floor from the shallow end wall towards the deep end shall not exceed one foot in twelve feet (1':12') to the point of the first slope change.
 - (c) The point of the first slope change shall be defined as the point at which the floor slope exceeds one foot in twelve feet (1':12') and shall not occur at a depth greater than five (5) feet.

- (d) The slope of the floor from the point of the first slope change to the deep end shall not exceed one foot in three feet (1':3'). Such slopes are not intended to provide any less water depth than those specified if the pool is intended for diving.
 - (e) Transitional radius from wall to floor where floor slopes join the wall shall comply with the following:
 - 1. The radius shall have its center no less than two feet nine inches (2'9") below the waterline in deep areas or two feet six inches (2'6") in the shallow area.
 - 2. The radius shall be tangent at the point where the radius either meets the wall or the floor.
 - 3. The radius shall be at least equal to or greater than the depth of the pool minus the vertical wall depth measured from the waterline (or tolerance allowed in (2) minus three inches (-3") to allow draining to the main drain. (R minimum = Pool depth - Vertical wall depth - 3")
- (4) **Water depths:** Water depths at the shallow end of the swimming area shall be a maximum of three feet six inches (3'6") except for racing pools which must have a minimum depth of three feet six inches (3'6").
- (a) The beginners' area of a pool shall be visually set apart from, but may be adjoined to, the shallow area and shall not adjoin the deep area.
 - (b) The transition point or point of slope change of the pool from the beginners' area to the shallow area and from the shallow area to the deep area and at the points of separation of diving, slide and amusement areas shall be visually set apart with a rope and float line, depth markers and a four inch (4") minimum width row of floor tile, painted line or similar means of a color contrasting with the bottom. In diving pools with a constant slope, the shallow area shall be visually set apart from the deep area with a rope and float line, depth markers and a four inch (4") minimum width row of floor tile, painted line or similar means of a color contrasting with the bottom. The health authority may waive the need for a rope and float line in swim-out areas or similar construction where deemed necessary.
- (5) Diving areas in pools shall conform to the minimum water depths, areas, slopes and other dimensions shown in Rule .05(6). If a wall exists, then it shall conform with the 3:1 slope in the Point D dimension and the L₁₋₂₋₃₋₄ dimensions.
- (a) When diving equipment is installed, it shall conform to the specifications set forth in Rule .06(7) and shall be located in the diving area of the pool so as to provide the minimum dimensions as shown in Rule .05(6).

POOL TYPE	RELATED DIVING EQUIPMENT		MINIMUM DIMENSIONS									MINIMUM WIDTH OF POOL AT:		
	MAX. DIVING BOARD LENGTH	MAX. BOARD HEIGHT OVER WATER	D ₁	D ₂	R	L ₁	L ₂	L ₃	L ₄	L ₅	PTA	PTB	PTC	
VI	10'	26" (2/3 meter)	7'-0"	8'-6"	5'-6"	2'-6"	8'-0"	10'-6"	7'-0"	28'-0"	16'-4"	18'-0"	18'-0"	
VII	12'	30" (3/4 meter)	7'-6"	9'-0"	6'-0"	3'-0"	9'-0"	12'-0"	4'-0"	28'-0"	18'-4"	20'-0"	20'-0"	
VIII	16'	1 Meter	8'-6"	10'-0"	7'-0"	4'-0"	10'-0"	15'-0"	2'-0"	31'-0"	20'-4"	22'-0"	22'-0"	
IX	16'	3 Meter	11'-0"	12'-0"	8'-6"	6'-0"	10'-6"	21'-0"	0	37'-6"	22'-4"	24'-0"	24'-0"	

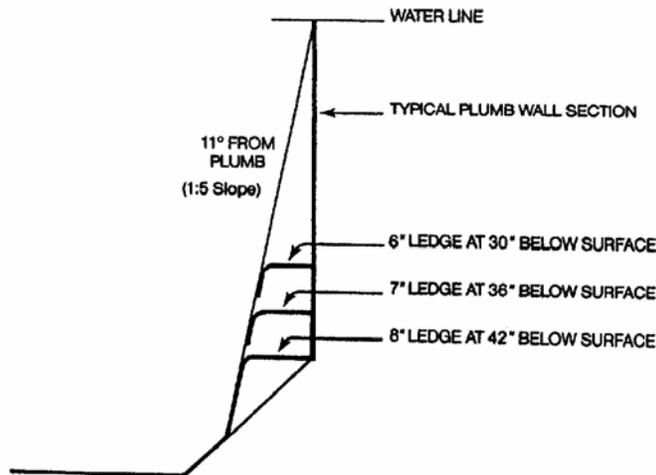
L₃, L₄ and L₅ combined represent the minimum distance from the tip of board to pool wall opposite diving equipment.

For board heights exceeding 3 meters see Article 4.5.2.

*NOTE: Placement of boards shall observe the following minimum dimensions. With multiple board installations minimum pool widths must be increased accordingly.

Deck Level Board to Pool Side	8'
1 Meter Board to Pool Side	10'
3 Meter Board to Pool Side	11'
1 Meter or Deck Level Board to 3 Meter Board	10'
1 Meter or Deck Level Board to another 1 Meter or Deck Level Board	8'
3 Meter to another 3 Meter Board	10'

- (7) **Offset Ledges:** When provided, offset ledges shall fall within 11° from plumb starting at the junction of the pool wall and waterline and shall have a slip-resistant surface. The outer two inch (2") edge shall be painted a contrasting color. The maximum width shall be eight inches (8"). The typical allowable dimensions are based on the depths shown below:



- (8) **Underwater Seat Benches:** Underwater seat benches in pools, when provided, shall have a maximum horizontal seat bench depth of twenty inches (20") below the waterline, be visually set apart by having the outer 2" of each seat painted in a contrasting color, have a slip-resisting surface, and shall be located fully outside of the required minimum

diving water envelope if the pool is intended for use with diving equipment. Underwater seat benches shall be permitted in the deep end of the pool only if they are either completely recessed, shaped to be compatible with the shape of the pool wall, or in a corner of the pool.

- (9) **Maximum User Load and Pool Size:** Maximum user load at all public pools except spas, shall be in accordance with table (a) below. Tables (b) 1. and 2. are to be used only to establish the minimum pool size allowable:

- (a) The user load shall be the maximum number of people allowed in the swimming pool at one time. Use of the table in calculating the bathing load shall be cumulative.

	Shallow Instruction or Wading Area	Deep Area (not including the Diving Area)	Diving Area (per each diving board)	Entry Area for all other devices including slides.
Pools with Minimal deck areas (smaller than the pool surface area)	18 square feet per user	20 square feet per user	300 square feet per user	150 square feet per device
Pools with deck area at least equal to water surface, up to twice the surface area of the water	15 square feet per user	18 square feet per user	300 square feet per user	150 square feet per device
Pools with deck area at least twice the water surface area	12 square feet per user	15 square feet per user	300 square feet per user	150 square feet per device

- (b) Maximum bathing load per number of living or dwelling units shall be used only to establish the minimum pool size allowable. The use of these tables in calculating the bather load shall be cumulative. These tables do not apply to spas.

1. Swimming Pools with Transient Bathers.

<u>Number of Units</u>	<u>Bathers per Unit</u>
0 - 100	0.65 bathers/unit
101 - 250	0.50 bathers/unit
251 - 500	0.15 bathers/unit
501 - plus	0.05 bathers/unit

2. Swimming Pools with Non-Transient Bathers.

<u>Number of Units</u>	<u>Bathers per Unit</u>
0 - 100	0.75 bathers/unit
101 - 200	0.65 bathers/unit
201 - 300	0.40 bathers/unit
301 - 500	0.15 bathers/unit
501 - plus	0.10 bathers/unit

- (c) The maximum user load in a spa at one time shall not exceed one (1) person per nine (9) square feet of surface area.
- (10) **Wading Pool Water Depth:** Wading pools shall be separate and physically set apart from beginning or shallow water areas of swimming pools by at least six feet (6') of deck. Where a wading pool is adjacent to any deep water area, a minimum four foot (4') high barrier shall be installed separating the two pools.
- (a) Wading pools shall have a maximum water depth of twenty-four inches (24"). The water depth at the perimeter shall not exceed eighteen inches (18"). Water depths may be reduced from the above maximums and brought to zero at the most shallow point.
- (b) Walls in wading pools shall be vertical or within 11° of vertical except for the lower six inches (6") which shall be radiused to the floor. Walls shall not extend more than six inches (6") above the waterline at any point.
- (c) Floors of wading pools shall be uniform, sloped to drain with a maximum slope of one (1) foot in twelve (12) feet.
- (11) **Spa Water Depth:** The maximum water depth in a spa shall be four feet (4') measured from the waterline. Exceptions may be made for spas designed for a special purpose.
- (a) Multi-level seating in a spa may be provided, but the maximum water depth of any seat or sitting bench shall be twenty-eight inches (28") measured from the waterline.
- (b) The spa shall be provided with a suitable handhold around its perimeter in areas where water depths exceed three feet six inches (3'6"). Handholds shall be provided no further apart than four feet (4') and may consist of any one or a combination of the following options.
1. Coping, ledges, radiused flanges or decks along the immediate top edge of the spa shall provide a suitable slip-resisting handhold located not more than twelve inches (12") above the waterline; or

2. Ladders, steps or seat ledges; or
 3. A secured rope or railing at or not more than twelve inches (12") above the waterline.
- (c) The slope of the floor in a spa shall not exceed one foot in twelve feet (1':12') vertical to horizontal.