

Fort Worth Code Compliance Department

Plan Review Checklist for Public Swimming Pools and Spas

Definitions:

- Class A pool – Any pool used, with or without a fee, for accredited competitive aquatic events. A “Class A” – competition pool may be used for recreation.
- Class B pool – Any pool used for public recreation and open to the general public with or without a fee.
- Class C pool – Any pool operated for and in conjunction with lodgings such as hotels, motels, apartments, condominiums, mobile home parks, property owners associations, clubs, etc. or a school, college or university while being operated for academic or continuing education classes or clubs or practice events (excluding competition events). The use of such a pool would be open to occupants, members or students, etc. and their guests but not open to the general public.
- Class D pool – A splasher pool with a maximum water depth of 36 inches at any point or wading pool with a maximum depth of two feet at any point.
- Spa – A constructed permanent or portable structure that is two feet or more in depth, that has a surface area of 250 square feet or less, or a volume of 3250 gallons or less which is intended to be used for bathing or other recreational uses and is not drained and refilled after each use. It may include, but is not limited to, hydrojet circulation, hot water, cold water, mineral baths, air induction bubbles, or any combination thereof.

The attached requirements represent minimal health code requirements, and are not considered all inclusive of all requirements.

A new facility shall be required to meet the applicable construction standard that is most restrictive to its use.

All State and Local requirements must be met before a health permit is issued for operation.

Any alteration of plans may result in non-compliance with Fort Worth Code Compliance Department Codes.

Submission and Review of Plans:

___ Prior to beginning the construction of a new public swimming pool/spa or the extensive remodeling of an existing public swimming pool/spa, the owner shall submit plans and specifications for such construction or remodeling to the Department of Development and the Code Compliance Department, Consumer Health Division for review.

___ The plans and specifications must indicate the following:

1. Plan of entire project site/tract map
2. Plot plan, deck detail and pool enclosure (including gate detail and fence panels)
3. Plumbing detail including gauges and pipe diameter etc.
4. Pool/Spa structure details

- a. depth markers
 - b. lights
 - c. skimmers
 - d. coping
 - e. fill line and/or applicable hose bibbs
5. Equipment list (including make and model number)
 6. Safety equipment and signs

___The plans and specifications shall be submitted and stamped with the seal of a professional engineer.

___A pre-construction letter stamped by the engineer shall also be submitted with the plans for review (See back of packet).

___A copy of the plans and specifications and the plan review checklist must be kept at the site during the time of construction.

Time and Limitations on Construction/ Remodeling:

___Remodeling or new construction must begin and end in accordance with the time limits of the project's building permit.

___If the proposed remodeling or new construction is not initiated or completed and approved by the former departments before the expiration of the project's building permit, plans must be resubmitted with the then-existing plan review fee.

Inspection of Facilities by the Code Compliance Department:

___Contact the plan examiner at (817) 392-7255 to schedule a **pre-gunite inspection**. The inspector will verify proper drain installation.

___Contact the plan examiner at (817) 392-7255 to schedule a **pre-plaster inspection**. The inspector will verify proper step, tile and depth installation.

___Contact the plan examiner at (817) 392-7255 to schedule a **preliminary inspection** at least seven days before construction is completed.

___Contact the plan examiner at (817) 392-7255 to schedule a **final inspection** to permit the facility.

Alterations to Plans:

___Before any alterations are made to the submitted and approved plans you must contact the plan examiner for approval. (817) 392-7255

Water Supply:

___A connection shall be made to a public water system or approved individual source that meets the requirements of the **TCEQ**.

Plumbing/ Electrical Work/ Mechanical Facilities & Structures:

___All plumbing, electrical work, mechanical facilities, and structures for the public swimming pool and spa shall meet or exceed all applicable requirements of chapter 7, "Buildings"; chapter 11, "Electricity"; and chapter 26, "plumbing"; of the Code of the City of Fort Worth, Texas. Contact the Department of Development at (817) 392-7820.

Pool Backwash:

- ___ Plumbing facilities will be installed so that swimming pool and spa filter backwash is deposited into the Sanitary Sewer to be filtered and recycled in a manner approved by the Director of the Water department. Contact the Water Department at (817) 817-8203.
- ___ Diatomaceous Earth (DE) filters are required to filter the backwash water through an approved separation tank.
- ___ No direct connection between the pool's drainage discharge and the sewage system is permitted. All wastewater must be discharged through an indirect waste connection. An air gap at least 2 times the diameter of the discharge pipe is required.
- ___ No direct connection between the water of the pool, spa, or slide is permitted to the water supply, unless approved backflow prevention devices are installed.
- ___ Backflow prevention devices are required on all hose bibbs in the pool enclosure or any hose bibbs that may be used to fill the pool, spa, or slide.

Pool, Spa, or Slide Location:

- ___ The pool, spa, or slide must not be subject to watershed drainage from the surrounding areas.
- ___ Decks shall be sloped to effectively drain to perimeter areas or to deck drains. Drainage shall remove pool and spa splash water, deck cleaning water, and rainwater without leaving standing water deeper than 1/8 inch. Water from deck drainage shall not be mixed with pool or spa water.
- ___ Class D pools shall be separated a minimum of 15 feet from the shallow area of another pool and/or separated a minimum of 35 feet from the deep end (five feet or greater) of another pool in the same pool yard enclosure. A Class D pool may be surrounded by a separate pool enclosure if the above space requirements cannot be met.
- ___ All slides shall be installed per the manufacturer recommendations, at the appropriate depth level. Equipment must meet CPSC guidelines.

Fencing:

- ___ See section 27 Pool Yard Enclosures for specific requirements regarding the separate Classes of pools. All pools/spas are required to:
 1. Have gates/openings that open outward away from the pool or spa except where prohibited by the fire code.
 2. Prohibit climbing structures or planters that may allow children to climb the fence to be within 36 horizontal inches of the exterior of the fence.
 3. Maintain the pool enclosure free of gaps greater than 4" in diameter between the vertical members, and between the horizontal members used near the deck or walkway on the exterior of the fence.
 4. Maintain the gates to close and latch from its fully open position to a position where the gate is open six inches from the fully closed position.
 5. Horizontal members shall be spaced 45 inches or greater as measured from the top of the lower member to the top of the above member; or the vertical members of the fence shall be no farther apart than 1 ¾ inches. See TX Health & Safety Code chapter 757 for more information.

Storage of Pool/Spa Chemicals:

- ___ Disinfection or other chemicals and feed equipment shall be stored in such a manner that pool and spa users shall not have access to such facilities and/or chemicals.
- ___ Dry chemicals shall be stored off the floor in a dry, above ground level room and protected against flooding, or wetting.
- ___ Storage of pool chemicals must also meet or exceed all applicable requirements of chapter 14, "Fire Prevention and Protection" of the Municipal code of the City of Fort Worth, Texas, as amended. Contact the Fire Department for more information.

Recirculation:

- ___ Capacity of pool/spa in gallons _____.
- ___ Surface area of pool/spa _____.
- ___ Turnover rate for pool/spa is _____ gallons/minute. The volume of the pool (gallons) divided by the turnover rate (gallons/ minute) shall be no greater than 6 hours. The volume of the spa (gallons) divided by the turnover rate (gallons/ minute) shall be no greater than 30 minutes.
- ___ At least one surface skimmer shall be provided for each 500 square feet of the water surface area or fraction thereof. Minimum number of required skimmers _____. Number of skimmers on the plan _____. Gutter system is exempt.
- ___ A pool or spa shall have a minimum of 2 return inlets. At least one return inlet is required for every additional 300 square feet of surface area or fraction thereof. Minimum number of return inlets required _____. Number of return inlets on the plan _____.
- ___ Inlets shall be equipped with adjustable, directional eyeball sockets.
- ___ A flow meter or rate of flow indicator shall be properly installed per manufacturer directions on the recirculation system of the pool or spa. Proper placement requires 10 times the diameter of the pipe before the flow meter and 2 times the diameter of the pipe after the flow meter.
- ___ Main drains shall be hydraulically balanced and equipped with a main drain sump and an A112 approved grate or drain cover. Drains that are 24 inch diagonally are exempt from the A112 approved cover requirement.

Disinfection:

- ___ The Texas Department of Health must, first approve any disinfectant or process used to sanitize pool water other than chlorine and bromine.

Safety Equipment:

- ___ A backboard shall be provided at any facility that has a slide or diving board.
- ___ See sections 21 Safety Design and 25 Safety Equipment for more requirements.

Pool Operator's Certification:

- ___ A pool operator shall be readily available to monitor and maintain the public swimming pool during all hours of operation for Class C and Class E pools and spas.
- ___ Class A, B, and D pools and spas located at Class A and B facilities shall be maintained under the supervision of a properly trained and certified operator. A certificate for a Certified Pool Operator, Aquatic Facility Operator or a Pool Operator On Location or its equivalent is required.

___ Upon completion of construction of any pool or spa, the builder and/or designer shall provide the manager and operators complete written and oral operational instructions for the pool or spa.

___ If a trained pool operator is not employed on-site at the public swimming pool or spa, the owner shall post signs at all entrances to the pool stating the telephone number or pager number of the trained pool operator. The letters in such signs shall be of a minimum height of one inch and shall be of a color contrasting to their background and state: "To report mechanical, safety or water quality problems with the pool, call ___-___ during pool hours."

References:

Municipal Code of the City of Fort Worth, chapter 16, "Health and Sanitation" 1995
Texas Department of Health Standards for Public Swimming Pools and Spas 1999

See the following tables for additional requirements.

TEXAS DEPARTMENT OF HEALTH
CONSTRUCTION STANDARDS FOR PUBLIC POOL AND SPAS
<http://www.tdh.state.tx.us/beh/gs/pools.htm>

1. PLANNING MATERIALS		Sec. 265.183 page 19		A	B	C	D	T	SPA
Plans and specifications submitted for Dept. review/approval.				•	•	•	•	•	•
Registered engineer stamp on plans to verify plan compliance. (FW code)				•	•	•	•	•	•
Pre-construction letter completed by registered engineer (FW code)				•	•	•	•	•	•
No construction activity until Code Compliance Dept. approves plans.				•	•	•	•	•	•
2. CONSTRUCTION INSPECTIONS/PERMITTING				A	B	C	D	T	SPA
Static hydraulic pressure test completed prior to deck pour.				•	•	•	•	•	•
Inspection(s) completed prior to gunite application/cement pour.				•	•	•	•	•	•
Post-gunite/pre-plaster inspection complete				•	•	•	•	•	•
Pre-permit inspection (after plaster)				•	•	•	•	•	•
Post-construction letter completed by registered engineer (FW code)				•	•	•	•	•	•
Final construction approved and permit secured prior to operation.				•	•	•	•	•	•
3. GENERAL CONSTRUCTION AND DESIGN		Sec. 265.184 page 20		A	B	C	D	T	SPA
Interior surfaces shall be smooth, cleanable.				•	•	•	•		•
Industry standard materials used for pool/spa construction.				•	•	•	•		•
NSFI Standard - 50 conformances for equipment.				•	•	•	•		•
Interior color of basin white or light tint.				•	•	•	•		•
Components shall be constructed to protect against freezing.				•	•	•	•		•
Hydrostatic relief valve required if ground water is detected at site.				•	•	•	•		•
Interior footing surface shall be slip-resistant				•	•	•	•		•
Basin design free of entrapment and other hazards.				•	•	•	•		•
Pool/spa shall be designed to meet anticipated user loads.				•	•	•	•		•
Maximum allowable wall slope of 11° from plumb				•	•	•			•
Wall-to-Floor juncture radius of ≥ 4.5 ft. in depths ≥ 8 ft.					•	•			
Wall-to-Floor juncture radius of ≥ 2.5 ft. in depths of 3 ft.					•	•			
Floor slope from shallow end wall toward deep end shall not exceed 1 ft. in 10 ft.				•	•	•			
Floor slope of deep water drop off not to exceed 1 ft. in 3 ft.					•	•			
Visual separation (4 inch band) for water < 3 ft. in depth from deeper areas.					•	•			
Zero depth design slope not to exceed 1 in 12 to a water depth of 1.5 ft.				•	•	•			
Floor inlets required in water less than 1.5 ft (1 per 200 sq. ft. or portion thereof)				•	•	•	•		
Offset ledges: max width 8 inches; within 11° of plumb. (See Figure 25 TAC page24)				•	•	•			
UNDERWATER SEATING		Sec. 265.184 page 24							
Underwater seating: max width 18 inches.				•	•	•	•		•
Underwater seating: max depth 24 inches.				•	•	•	•		•
Underwater seating located outside diving envelope.				•	•	•			•

Underwater seating visually separated by 1-inch solid or broken stripe.	•	•	•	•		•
Underwater seating must have integral steps if used as entry/exit.	•	•	•	•		
WATER LOUNGES	Sec. 265.184 page 24					
Minimum 20 inches wide.	A	B	C	D	T	SPA
Minimum 10 sq. ft. of horizontal surface	•	•	•	•		•
Join pool wall over distance ≥ 3 feet	•	•	•	•		•
Depth 2-10 inches below water surface.	•	•	•	•		•
Visually set apart by a 1-inch solid or broken stripe.	•	•	•	•		•
Located outside of diving envelope	•	•	•	•		•
Have slip-resistant surface	•	•	•	•		•
Be located in water 4 feet or less	•	•	•	•		•
WADING POOL SPECIAL REQUIREMENTS	Sec. 265.184 page 25					
Maximum depth no greater than 24 inches.				•		
15 ft. setback from shallow end of pool or enclosed by fencing.				•		
Enclosed by fencing if within 35 ft. of deep end of pool.				•		
Maximum depth no greater than 24 inches.				•		
Step down ≤ 18 inches from deck to bottom of pool/seat.				•		
Floor pitch ≤ 1 ft./12 ft.				•		
4. DECKS ENTRY/EXIT, DIVING FACILITIES	Sec. 265.186 pages 26-35					
DECKS	Sec. 265.186 pages 26-27					
Class A pools must conform to sanctioning body's requirements.	•					
Class B pools - ≥ 6 ft. wide, unobstructed (35% may be replaced with other structures)		•				
Class C pools - ≥ 4 ft. wide, unobstructed (35% may be replaced with other structures)			•			
Class D pools - ≥ 4 ft. wide, unobstructed (35% may be replaced with other structures)				•		
Spas – continuous minimum 4 ft. wide for $\geq 50\%$ of spa perimeter.						•
Diving Platforms deck - ≥ 4 ft. wide for sides and rear.	•	•	•			
All Other Deck Equipment deck clearance - ≥ 3 ft. wide	•	•	•	•		•
Decks slope (other than wood) maximum of $\frac{1}{2}$ in per ft except ramps	•	•	•	•		•
Wood decks slopes maximum $\frac{1}{8}$ in per ft	•	•	•	•		•
Gaps required between wood deck to meet good engineering practices	•	•	•	•		•
Deck gaps between deck and walkways maximum horizontal clearance of $\frac{3}{16}$ in	•	•	•	•		•
Deck vertical elevation between deck and walkways maximum difference of $\frac{1}{4}$ inch	•	•	•	•		•
Joints at coping and concrete decks shall be watertight	•	•	•	•		•
Deck edges rounded, tapered, or shaped to eliminate sharp corners.	•	•	•	•		•
Deck drains shall not mix with pool/spa water.	•	•	•	•		•
Site graded to drain away from pool.	•	•	•	•		•
Perimeter deck drainage, site and roof drainage shall be away from pool area.	•	•	•	•		•
Deck valve box pits ≥ 10 " width and provided with covers.	•	•	•	•		•
Hose bibs and hose adequate for deck cleaning with TCEQ approved cross-connection device	•	•	•	•		•
ENTRY/EXIT	Sec. 265.186 pages 28-30					
Minimum two entry/exits: one at shallow end, one at deep end.	•	•	•			
Areas where distance from deck to bottom of pool is ≤ 18 inches may be an entry/exit.	•	•	•	•		
Pools 30 ft. or wider require entry/exits on opposite sides of deep areas	•	•	•			
Entry/exits for diving pools see section 265.186 (c)(3) and (e)(6)	*	*	*			
Entry/exit for non-diving pools shall be located to serve deep and shallow areas.	*	*	*			

Entry/exits provided every 75 ft. of pool wall length or fraction of.							
Stairs, ladders, and recessed treads shall not interfere with racing lanes							
Stairs, ladders, and recessed treads shall have slip-resistant surfaces							
STEPS	Section 265.186 page 26	A	B	C	D	T	SPA
Tread depth \geq 12 inches (horizontal run)		•	•	•	•		
Tread width \geq 20 inches.		•	•	•	•		
Riser height \leq 10 inches (bottom riser may taper to zero)		•	•	•	•		
Solid or broken visual warning strip (1 inch) underwater steps.		•	•	•	•		
Step handrails required at any pools with lifeguard mandate.		•	•	•	•		
Handrails terminate within 8" of last step or to water depth of 36 inches from step surface		•	•	•	•		
Outside handrail diameter from 1.25-2 inches		•	•	•	•		
LADDERS	Section 265.186 page 26	A	B	C	D	T	SPA
Ladder treads and handrails corrosion resistant		•	•	•			
A handrail on each side of ladder treads.		•	•	•			
Ladder handrail distance is 17 inches to 24 inches.		•	•	•			
Uniform distance between ladder treads is 7 inches to 12 inches.		•	•	•			
Maximum vertical distance from coping to top tread is 12 inches.		•	•	•			
Ladder step tread minimum horizontal depth of 1.5 inches.		•	•	•			
Inside edge of ladder handrails below water shall be \leq 5 inches from pool edge.		•	•	•			
Ladder treads shall be \leq 3.5 inches from pool wall.		•	•	•			
RECESSED TREADS	Section 265.186 page 26-27	A	B	C	D	T	SPA
Handrails shall be corrosion resistant.		•	•	•			
Handrail provided on each side of ladder.		•	•	•			
Ladder handrail distance is 17 inches to 24 inches.		•	•	•			
Uniform distance between ladder treads is 7 inches to 12 inches.		•	•	•			
Maximum vertical distance from coping to top tread is 12 inches.		•	•	•			
Step depth \geq 4.5 inches.		•	•	•			
Step width \geq 12 inches.		•	•	•			
Tread sloped to drain into pool not more and 1/2 inch/foot.		•	•	•			
SWIMOUTS	Section 265.186 page 27	A	B	C	D	T	SPA
Located completely outside the perimeter shape of the pool.		•	•	•			
Maximum water depth of 20 inches, unless stairs are provided.		•	•	•			
If used as entry/exits, steps must be provided.		•	•	•			
Wall return inlet required for circulation if pool does not have perimeter overflow system		•	•	•			
DIVING FACILITIES	Sec. 265.186 pages 27-29	A	B	C	D	T	SPA
See requirements listed in TDH pool regulations.		*	*	*			
STARTING BLOCKS	Sec.265.186 page 29	A	B	C	D	T	SPA
See requirements listed in TDH pool regulations		*					
PLAY EQUIPMENT/WATER SLIDES	Sec. 265.186 page 29	A	B	C	D	T	SPA
Design and installation meet CSPC standards.		*	*	*	*		
SLIDES		A	B	C	D	T	SPA
See requirements listed in TDH pool regulations.		*	*	*	*		

5. CIRCULATION SYSTEM	Sec. 265.187 page 35-37					A	B	C	D	T	SPA
TURNOVER											
Turnover rate for pools average depth of 4 ft. depth - 6 hours.	•	•	•		•						
Turnover rate for pools < 4 ft. depth - (average depth x 1.5).	•	•	•		•						
Turnover rate for spas - 30 minutes.											•
Turnover rate for wading pool – once per hour				•							
FLOW VELOCITY	A	B	C	D	T	SPA					
Discharge flow velocity maximum of 10 ft. per second. (copper wire 8 ft./sec)	•	•	•	•	•	•					
Suction flow velocity maximum of 6 ft. per second.	•	•	•	•	•	•					
Suction outlet/grate flow velocity maximum of 1.5 ft. per second.	•	•	•	•	•	•					
PIPING, GAUGES, FLOW METERS, VALVES	Sec. 265.187 page 36					A	B	C	D	T	SPA
Static hydraulic pressure test required before deck is poured and maintained throughout pour	•	•	•	•	•	•					
Piping is NSFI approved (schedule 40 +) and properly installed.	•	•	•	•	•	•					
Piping capable of complete drainage or evacuation. (freeze damage)	•	•	•	•	•	•					
Gauges: pump suction, filter inlet, filter outlet.	•	•	•	•	•	•					
Flow meter(s) provided for filter flow during filtering	•	•	•	•	•	•					
Labeled circulation piping with function and flow direction.	•	•	•	•	•	•					
6. FILTERS, BACKWASH	Sec. 265.188 page 37-38					A	B	C	D	T	SPA
Filter meets ANSI/NSFI Standard 50 requirements.	•	•	•	•	•	•					
Filter is properly designed/installed for pool/spa.	•	•	•	•	•	•					
Filter equipped with automatic and manual air release devices.	•	•	•	•	•	•					
Filter operating parameters/instruction plate affixed to unit.	•	•	•	•	•	•					
Observable free fall or sight glass on backwash piping.	•	•	•	•	•	•					
Sight glasses are removable for cleaning, if used.	•	•	•	•	•	•					
7. PUMPS AND MOTORS	Sec. 265.189 pages 38-39					A	B	C	D	T	SPA
Pump motor sized to meet filter flow rate requirements.	•	•	•	•	•	•					
Strainer installed upstream of pump.	•	•	•	•	•	•					
Pump motor properly designed/installed.	•	•	•	•	•	•					
Shut off valves installed for pump removal if below pool elevation.	•	•	•	•	•	•					
Motors shall comply with UL requirements.	•	•	•	•	•	•					
8. SUCTION OUTLETS AND RETURN INLETS	Sec. 265.190 page 39-43					A	B	C	D	T	SPA
Designed to protect against suction entrapment and evisceration.	•	•	•	•	•	•					
Approved suction outlet cover or grate.	•	•	•	•	•	•					
Approved cover stamped ASME/ANSI A112.19.8M and GPM.	•	•	•	•	•	•					
Approved grate minimum diagonal of 24 inches and flow velocity is 1.5 fps or less	•	•	•	•	•	•					
Dual main drains outlets provided, hydraulically balanced.	•	•	•	•	•	•					
Main drain outlets spaced 3 ft. to 20 ft. apart from each other.	•	•	•	•	•	•					
Main drains located at the lowest point of the pool/spa.	•	•	•	•	•	•					
No means of isolating suction outlets.	•	•	•	•	•	•					
Water velocity shall not exceed 6 ft/sec on suction pipes	•	•	•	•	•	•					
Water velocity shall not exceed 1.5 ft/sec across a 24-inch diagonal grate	•	•	•	•	•	•					
Water velocity shall not exceed flow rate for approved covers	•	•	•	•	•	•					
SVRS required for covers or grates less than 24-inch diagonal in water 4 ft deep or less	•	•	•	•	•	•					

Fasteners to grates and covers shall be stainless steel or brass.	•	•	•	•	•	•
Replacement cover on-site with approved fasteners	•	•	•	•	•	•
VACUUM OUTLETS	A	B	C	D	T	SPA
Vacuum outlets installed between 12 inches and 18 inches deep.	•	•	•	•	•	•
Vacuum outlets protected by self-closing, self-locking cover.	•	•	•	•	•	•
CLEARANCE BENEATH COVER OR GRATE	A	B	C	D	T	SPA
Sump below grate required	•	•	•	•	•	•
Distance between cover/grate and suction pipe at least 1.5 X pipe diameter or 8 in (whichever is less)	•	•	•	•	•	•
Sump below all open area of cover or grate	•	•	•	•	•	•
Cover assemblies that do not connect directly to circulation piping must have manufacturer's Recommended sump or a field built sump of the design specified by the manufacturer.	•	•	•	•	•	•
RETURN INLETS	A	B	C	D	T	SPA
1 return inlet for every 300 square feet	•	•	•	•	•	
1 return inlet for every 150 sq. ft. of pool surface area						•
Return inlets must not project more than 1 inch beyond wall	•	•	•	•	•	•
Return inlets shall be at least 12 inches below the water level.	•	•	•	•	•	•
Floor return inlets shall be flush with floor. (influence of 15 ft radius)	•	•	•	•	•	•
SKIMMER/GUTTER SYSTEMS	A	B	C	D	T	SPA
Skimmers/Gutter systems designed and installed hazard free.	•	•	•	•	•	•
Skimmers provided one per 500 ft ² for pools.	•	•	•	•	•	
Skimmers provided one per 150 ft ² for spas.	•	•	•	•	•	•
Skimmer equalization valve with approved cover	•	•	•	•	•	•
Skimmer system capable of 100% of circulation system flow.	•	•	•	•	•	•
Skimmer flow rate ≥ 3 gallons per skimmer per weir inch.	•	•	•	•	•	•
Gutter systems provided for ≥ 50% of pool perimeter.	*	*	*	*	*	*
Gutter system surge capacity ≥ one gallon per ft ² pool surface area.	*	*	*	*	*	*
Gutter system surge capacity ≥ two gallons per ft ² spa surface area.	*	*	*	*	*	*
Gutter system capable of 100% of circulation system flow.	*	*	*	*	*	*
9. ELECTRICAL REQUIREMENTS	A	B	C	D	T	SPA
Electrical equipment installed per NEC (1999).	•	•	•	•	•	•
Electrical equipment design UL or equivalent approved.	•	•	•	•	•	•
GFCI protection on lighting	•	•	•	•	•	•
GFCI protection of all plugs in pool/spa yard enclosure	•	•	•	•	•	•
GFCI protection on all outlets in dressing or sanitary facilities	•	•	•	•	•	•
GFCI protection on any switch that serves lights or equipment that is 5 to 10 ft from wall	•	•	•	•	•	•
GFCI and circuit breakers shall comply with 2002 NEC code	•	•	•	•	•	•
Pump motors internally and externally grounded	•	•	•	•	•	•
No insulated overhead wires within 20 ft. of outdoor pool/spa enclosure.	•	•	•	•	•	•
Non-insulated overhead wires of outdoor pool/spa meet 2002 NEC requirements	•	•	•	•	•	•
Non-overhead wires shall be at least 5 feet from edge of water	•	•	•	•	•	•
Electrical disconnect for service personnel located within sight of equipment	•	•	•	•	•	•
Location of other electrical equipment see Sec. 265.192 page 47	•	•	•	•	•	•
Emergency shut-off located within sight of spa						•
Emergency shut-off clearly labeled as "Emergency Spa Shutoff"						•

Emergency shutoff readily accessible to spa users						•
Emergency shutoff no closer than 5 ft unless switch is non-electrical air switch						•
10. HEATERS Sec. 265.193 page 48-49	A	B	C	D	T	SPA
Heaters ≥ 200K BTU Texas Dept. of Licensing/Regulation certified.	*	*	*	*	*	*
HEATER INSULATION AND TESTING (see Sec. 265.193 (b) page 48)	*	*	*	*	*	*
TEMPERATURE AND THERMOMETER						
Water temperature shall not exceed 104 degrees F.	•	•	•	•	•	•
Break-resistant thermometer designed for use in spa available to spa users and staff.						•
Control for water temperature in spa not accessible to spa users						•
HEATING ENERGY SOURCE (see Sec 265.193 (d) page 49)	*	*	*	*	*	*
11. WATER SUPPLY Sec. 265.194 page 49-50	A	B	C	D	T	SPA
Water supply from approved source.	•	•	•	•	•	•
No direct connection to wastewater system	•	•	•	•	•	•
Over-the-rim fill spout: no trip hazard; ≤ 2” beyond edge of pool; pliant end-piece, air gap	*	*	*	*	*	*
Backflow prevention/anti-siphon on submerged fill lines.	•	•	•	•	•	•
Backflow prevention/anti-siphon devices on fill hose lines.	•	•	•	•	•	•
Backflow prevention/anti-siphon devices on pump priming devices.	•	•	•	•	•	•
12. FACILITY DRINKING WATER Sec 265.195 page 50	A	B	C	D	T	SPA
Water source potable and meets requirements.of TAC, Chapter 290, Subchapter D	•	•	•	•	•	•
Drinking fountain provided and available for bather use.	•	•	•	•	•	•
Water supply protected against cross-contamination (30 TAC, Chapter 290, Subchapter D)	•	•	•	•	•	•
13. WASTE WATER DISPOSAL Sec. 265.196 page 50-51	A	B	C	D	T	SPA
Backwash to approved sewage disposal system (sanitary sewer)	•	•	•	•	•	•
Backwash discharge through proper air gap.	•	•	•	•	•	•
14. DISINFECTANT EQUIPMENT AND CHEMICAL FEEDERS Sec265.197 page51-52	A	B	C	D	T	SPA
Equipment shall comply with ANSI/NSF 50-1996	•	•	•	•	•	•
Pool shall be able to maintain up to 5 ppm chlorine (outdoors) and 3 ppm (indoors)	•	•	•	•	•	
Spa equipment shall be able to maintain up to 8 ppm chlorine (outdoors) and 5ppm (indoors)						•
Chemicals shall be stored away from pool and spa users.	•	•	•	•	•	•
Dry chemicals shall be stored off the floor and protected against flooding or getting wet	•	•	•	•	•	•
Chemicals shall be introduced downstream from the filter and heater	•	•	•	•	•	•
Chemical feeders shall comply with ANSI/NSF 50-1996	•	•	•	•	•	•
15. GAS CHLORINATION See Sec 265.198 page 52-55	A	B	C	D	T	SPA
16. SPECIFIC SAFETY FEATURES Sec. 265.199 page 55-62	A	B	C	D	T	SPA
HANDHOLDS Sec. 265.199 page 55	A	B	C	D	T	SPA
Provided at least every 2 ft. for depths > 42 inches if no seat, bench, swimout, or lounge.	•	•	•			•
May be coping, rope, railing, ledge, deck, negative edge, or similar construction	•	•	•			•
Handholds ≤ 9 inches above design water level.	•	•	•			•
Handholds are ≤ 3.5 inches thick and ≥ 4 inches wide.	•	•	•			•
Handholds overhang ≤ 2 inches and ≥ 1 inch.	•	•	•			•

FLOAT LINES AND FLOOR MARKINGS		A	B	C	D	T	SPA
Transition point from shallow to deep shall have a 4-inch min. width row of floor tile, painted line, or similar means of color contrasting with bottom for pools for pool over 5 feet deep		•	•	•			
Float line and buoys provided 1 to 2 ft. before 5-ft. depth point for pools over 5 feet deep		•	•				
Float line buoys secured ≤ 7 ft. apart.		•	•				
Float line must be tightly tensioned.		•	•	*			
Float line must provide good handhold and be durable.		•	•	*			
Float line wall anchors are recessed with no projection.		•	•	*			
DEPTH MARKERS		A	B	C	D	T	SPA
Provided on deck and sidewalls.		•	•	•	•		
Indicate depth from water level to floor of pool taken 3 feet from pool wall.		•	•	•	•		
Depth markers and units of measurement (Ft.) ≥ 4 inches		•	•	•	•		
Be of contrasting color		•	•	•	•		
Have permanent colors (no paint)		•	•	•	•		
Provided every 2-ft. of depth change and uniformly installed around pool		•	•	•	•		
Provided ≥ one per side; ≥ one every 25 ft. of deck.		•	•	•	•		
Provided at minimum and maximum depth points and at 5-ft depth of pool over 5 feet deep		•	•	•	•		
Designate depth, on irregularly shaped pools, at all major deviations if shape		•	•	•	•		
Units of measurement spelled out in “feet” or “inches” or abbreviated as “FT” and “IN”		•	•	•	•		
On deck shall be slip resistance and 24 inches of water’s edge		•	•	•	•		
Pool sidewall markers shall be posted in the top 4.5 in. of pool wall.		•	•	•	•		
Positioned correctly.		•	•	•	•		
Zero depth entry pools and other coping types that do not allow space for a wall depth marker may use other methods to mark depth. (see page 56)		•	•	•	•		
“NO DIVING” WORDS AND SYMBOL		A	B	C	D	T	SPA
“NO DIVING” words and international symbol marked on pool deck in contrasting colors		•	•	•	•		
“NO DIVING” and international symbol. (4 inch letters) in water ≤ 6 ft.		•	•	•	•		
Shall be placed at the extreme ends of the min. and max depth of 6 feet on all pool sides.		•	•	•	•		
Within 24 inches of water’s edge and positioned correctly		•	•	•	•		
Located on permanent structures above the deck (other than a diving board) that persons may attempt to use diving.		•	•	•	•		
SIGNAGE REQUIREMENTS		A	B	C	D	T	SPA
Securely mounted and visible from inside the pool enclosure.		•	•	•	•		
“WARNING - NO LIFEGUARD ON DUTY”. (4”inch letters)				•	•		
“NO DIVING” and international symbol. (4 “ letters)		•	•	•	•		
“NO DIVING” inside pool enclosure. (4 “ letters)		•	•	•	•		
“CHILDREN SHOULD NOT USE POOL WITHOUT ADULT SUPERVISION” (2” letters)		•	•	•	•		
Directions to nearest telephone or emergency summoning device.		•	•	•	•		
LIFEGUARD PERSONNEL STANDARDS		A	B	C	D	T	SPA
Lifeguards and second responders provided during competitive events		•					
Lifeguard and second responders provided			•				
Lifeguard and second responders provided Class C pools with diving boards or slide that is not locked or chained to prevent use				•			
LIFEGUARD CHAIRS AND EQUIPMENT		A	B	C	D	T	SPA
See pages 59-60		•	•	*			

SAFETY EQUIPMENT		Sec. 265.199 page 60					
	Shepherds crook: 12 ft., non-conductive, non-telescoping pole.	A	B	C	D	T	SPA
	USCG Ring Buoy with outside diameter or 15-24 in. with attached rope ¼ to 3/8-in.diameter and length at least 2/3 max. pool width.	•	•	•			
	Provide 1 additional set of safety equipment for pool between 2000-4000 sq ft. water surface	•	•	•			
	Provide 1 additional set of safety equipment for pool over 4000 sq ft for each additional 6000 sq ft.	•	•	•			
	Backboard with 3 tie down straps and head immobilizer in pool with slide, diving board or lifeguard	•	•	•			
	24-item first aid kit meets OSHA requirements for pools with lifeguards.	•	•	•			
TELEPHONES		Sec. 165.199 pages 60-61					
	Phone summons emergency service and accessible within 200 feet from pool or spa water	•	•	•	•		•
	Phone located outside of pool/spa yards if fence is higher than 4 ft 4 in	•	•	•	•		•
	Sign on all exterior locked gates/doors stating location of phone if outside of enclosure.	•	•	•	•		•
	Sign stating "In case of emergency, call 911" in min. 1-in letters inside pool/spa yard	•	•	•	•		•
	Sign describing location of phone if phone is not visible from pool/spa.	•	•	•	•		•
LIGHTING		Sec. 165. 199 pages 61-62					
	Lighting above water for decks/water surface ≥ 0.5 watts/sq. ft. of deck and water surface	•	•	•	•		•
	Underwater lighting installed at 0.5 watts per ft ² pool/spa surface area.	•	•	•	•		•
	Bottom of pool/spa clearly visible without glare..	•	•	•	•		•
INDOOR VENTILATION		Sec 165.199 page 62					
	Meet ASHRAE 62-1989 "Ventilation for Acceptable Indoor Air quality" standards	•	•	•	•		•
SAFETY/SANTIATION OF EQUATIC ACTIVITY DEVICES		Sec 165.199 page 62					
	See page 62						
17.	POOL YARD ENCLOSURES	Sec. 265.200 pages 62-63					
A.	<i>CLASS A, B AND YOUTH CAMP POOLS/SPAS see page 62-63</i>						
B.	<i>APARTMENT AND CONDOMINIUM POOLS/SPAS</i> See TX Health & Safety Code Chapter 757 for requirements.			•	•		•
C.	<i>OTHER CLASS C POOLS/SPAS AND CLASS D POOLS AT CLASS C FACILITIES</i> Height ≥ 4 ft. Openings in or under enclosure do not allow passage of 4-in diameter sphere. No objects placed within 36 inches from outside of fence. Chain link enclosures not allowed. Windows, door, or gates of a building that are capable of being opened are not allowed Gates/doors are self-closing and self-latching. Gates/doors open away from pool/spa. Gate/door opening hardware is hand-activated and ≥ 3.5 ft. high. Gates/doors are capable of being locked/secured.	A	B	C	D	T	SPA
				•	•		•
				•	•		•
				•	•		•
				•	•		•
				•	•		•
				•	•		•
				•	•		•
				•	•		•
18.	DRESSING/SANITARY FACILITIES	Sec. 265.201 pages 64-67					
	Separate dressing/toilet facilities for each gender.	•	•	*	*		*
	Proper construction for cleaning/sanitation.	•	•	*	*		*
	Proper lighting and ventilation	•	•	*	*		*

Shower provided	•	•	*	*		*
Adequate floor drains and floor pitch to facilitate drainage.	•	•	*	*		*
Hose bibs provided	•	•	*	*		*
A. Lavatories, showers, and toilets see fixture schedule page 66.	A	B	C	D	T	SPA
<i>Class C and D pool/spa exemptions see page 66(apartments, hotel, motel, condominium)</i>						
Showers	•	•	*	*		*
Dressing rooms	•	•	*	*		*
Toilets	•	•	*	*		*
Urinals	•	•	*	*		*
Hand drying towels or devices	•	•	*	*		*
Baby changing table(s).	•	•	*	*		*
Lavatory(s)	•	•	*	*		*
Anti-scald, shower fixture(s): fixed mixing valves (90° F to 110° F)	•	•	*	*		*
Drinking fountain(s) provided in pool area.	•	•	•	•		•
Adequate hose bibs provided for cleanup.	•	•	•	•		•
Mirrors/hand cleanser dispensers are shatter-resistant.	•	•	*	*		*
Soap provided at hand sinks.	•	•	*	*		*
Toilet paper provided.	•	•	*	*		*
Covered trash can provided	•	•	*	*		*
FOOD, BEVERAGES, AND CONTAINERS	Sec. 265.202 page 67					
Trash container provided where food and beverages are allowed.	*	*	*	*		*
SPA SPECIAL REQUIREMENTS	Sec. 265.205 pages 70-74					
Depth ≤ 4 ft.						•
Seat depth ≤ 24 inches.						•
Air blower design meets ANSI/UL 1563-1995						•
Air line pressure test 1.5 times operating pressure.						•
15-minute manual timer for blower/circulation system.						•
Depth markers (at least two) provided.						•
Depth markers and units of measurement (Ft.) 4 inches in height.						•
Depth markers provided on deck within 24 inches of water.						•
Depth markers provided every 25 ft. of deck.						•
CITY OF FORT WORTH POOL/SPA ODRINANCE REQUIREMENTS	A	B	C	D	T	SPA
DPD titration-type test kit.	•	•	•	•	•	•
Sign stating: "Diaper changing on pool/spa deck if prohibited. (2-in letters)	•	•	•	•	•	•
Sign stating: "To report mechanical, safety or water quality problems with this facility, call _____ during hours of operation." If pool operator is not on-site.	•	•	•	•	•	•
Water from an interactive spray ground or attraction shall be released into the sanitary sewer or shall be recirculated with the pool water in which the equipment is installed.						