

## Natare® Deck and Accessories

### Typical Specification



The following pages include a typical specification (in the Construction Specification Institute format). This specification is intended to be used as part of a project or as a stand-alone specification for the purchase of a swimming pool, aquatic facility or water feature item.

This specification is not proprietary or intended to limit competition. To the contrary, the purpose of this specification is to establish the minimum performance and quality standards. The use of this specification does not preclude other manufacturers or suppliers from bidding. In fact, the use of a comprehensive and detailed specification ensures that the purchaser or owner actually receives the expected quality and performance required.

Natare recommends that purchasers understand their needs, specify the item that meets their requirements and demand that all potential suppliers meet those minimum requirements.

Please contact Natare for assistance in selecting and specifying your swimming pool, aquatic facility or water feature items.

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**PART 1 - GENERAL**

1.1 Summary:

The extent of deck and pool equipment work as indicated by the drawings, and by the requirements of this Section, includes:

- \_\_\_ Depth Markings and Signage
- \_\_\_ Diving Boards
- \_\_\_ Diving Standards, Towers and Platforms
- \_\_\_ Life Guard Chairs and Platforms
- \_\_\_ Handrails, Grab rails, Recessed Steps & Ladders
- \_\_\_ Stanchions (backstroke & recall)
- \_\_\_ Backstroke Pennant & Recall Rope
- \_\_\_ Stanchions (backstroke & recall)
- \_\_\_ Starting Platforms
- \_\_\_ Racing Lane Markers & Anchors
- \_\_\_ Storage Reels & Storage Bench
- \_\_\_ Safety Line Kit
- \_\_\_ Splash Curtains
- \_\_\_ Swimming Pool Lifts, platform style and seat model
- \_\_\_ Water Basketball Goals
- \_\_\_ Water Volleyball
- \_\_\_ Water Polo Goals
- \_\_\_ Other
- \_\_\_ Operations and Maintenance Equipment

1.2 Requirements

- A. Codes and Standards: Perform all equipment installation work in compliance with the requirements of local and state regulations and standards of governing authorities having jurisdiction.
- B. Manufacturers: Only firms engaged for not less than three (3) years in the manufacture of deck and pool equipment products of types and sizes required may be used.
- C. Stainless Steel Tubing: All stainless steel tubing will be subject to micrometer tests on the jobsite.

**Part 2: Requirements**

2.1 Equipment:

Furnish the following items of swimming pool deck, operational, maintenance and programming equipment in the quality and grade as specified herein. Provide necessary anchorage, inserts, embedments or other anchoring devices for installation at the locations as indicated on the drawings and as further detailed on the shop drawings.

A. Diving Boards:

- 1. Competition - Provide \_\_\_ Dura-Maxiflex aluminum extrusion type springboard. The Dura-Maxiflex is manufactured in 16' lengths only. Materials and construction are identical to the regular 16' Duraflex, except for the addition of a double taper. Whereas the regular Duraflex has a machine taper from tip to fulcrum, the Dura-Maxiflex is also machine tapered from fulcrum to anchor, increasing the "lift" potential 15%.

16' Dura-Maxiflex - Natare #40-328

- 2. Competition - Provide \_\_\_ Dura-Maxiflex "B" aluminum extrusion type board. The Dura-Maxiflex "B" is manufactured in 16' lengths only. Materials and construction are identical to the 16' Dura-Maxiflex except for the addition of 500 perforations at the tip end of the board creating less air resistance for the board and providing better footing for the diver.

16' Dura-Maxiflex "B" - Natare #40-329

B. Diving Standards:

- 1. Provide anchorage only for future three meter pedestal diving standard with ladder at rear.

Anchor bolt assembly for above must consist of eight 3/4" diameter carbon steel, hooked anchor bolts with threaded bushings. A Masonite template shall be provided for the accurate setting and spacing of the anchor bolts.

The rear anchor bolts shall be a two piece casting 1.900" O.D. tubing for a penetration of 4". It shall also be threaded on the underside for attachment of a 1/2" diameter anchor bolt. The flange shall be made to slip over 1.900" O.D. tubing and have provision for a through-bolt. The through-bolt is to be inserted after field drilling of rear leg on ladder riser of superstructure. Flange shall be bolted to the lower part. The body shall be of cast bronze. The flange shall be (for deluxe rear anchor) cast bronze with a chrome plated finish.

Optional for Above:

**Flanged Stub** -flanged stub shall be a carbon steel weldment. It shall consist of a 3/4" thick plate welded to a round pipe, 3" O.D. x .187" wall. The plate shall have bushings welded to the underside to provide blind, tapped holes to receive the bolts anchoring the pedestal.

2. Provide \_\_\_\_\_ one meter pedestal diving standard(s) with ladder at rear. Guardrails shall be at least 30" above the diving board and extend to the pool face. Ladder steps shall be of injection molded cyclac, 26" long x 5" wide, with a non-skid tread. Connections between all members shall be by means of split connectors with bolts; no threads or internal reinforcing shall be permitted. The connection between the ladder risers and the fulcrum supports shall be trussed to avoid distortion. Provision shall be made so that the butt end of the diving board is hinged and may rotate freely.

Tubing and fulcrum used shall be as follows:

- a) Flexural members, including fulcrum supports and base bar, shall be stainless steel, 1.900" O.D. x 145" wall, type 304 polished.
- b) Ladder risers shall be stainless steel, 1.900" O.D. x .109" wall, type 304, polished.
- c) Handrails and all other non structural members shall be stainless steel, 1.900" O.D. x .065" wall, type 304, polished.
- d) The fulcrum provided shall have a freely turning axle that is adjustable over a 24" range at constant elevation. The axle and gears shall be machined from stainless steel bar stock, the cast parts shall be cast bronze with a chrome plated finish.

Pedestal provided for above must be flanged and machined of 8" welded steel and prime coated.

Anchor bolt assembly for above must consist of eight 3/4" diameter carbon steel, hooked anchor bolts with threaded bushings. A Masonite template shall be provided for the accurate setting and spacing of the anchor bolts.

The rear anchor bolts shall be a two piece casting 1.900" O.D. tubing for a penetration of 4". It shall also be threaded on the underside for attachment of a 1/2" diameter anchor bolt. The flange shall be made to slip over 1.900" O.D. tubing and have provision for a through-bolt. The through-bolt is to be inserted after field drilling of rear leg on ladder riser of superstructure. Flange shall be bolted to the lower part. The body shall be of cast bronze. The flange shall be (for deluxe rear anchor) cast bronze with a chrome plated finish.

Optional for Above:

**Flanged Stub-** flanged stub shall be a carbon steel weldment. It shall consist of a 3/4" thick plate welded to a round pipe, 3" O.D. x .187" wall. The plate shall have bushings welded to the underside to provide blind, tapped holes to receive the bolts anchoring the pedestal.

1 Meter Superflyte - Natara #42-082

#42-156

C. Lifeguard Chairs:

1. Provide \_\_\_\_\_ movable lifeguard chair. Provide a molded plastic seat 6' above the deck. The seat shall be mounted upon a platform of laminated Douglas fir which is coated with polyester resin and fiberglass. The top of the platform shall have a nonskid surface. The platform shall be reached by a 26" wide sloping ladder at the front of the chair. The framework of the chair shall be rigidly bolted and shall be fabricated of stainless steel tubing, 1.900" x .065" wall, polished type 304.

The steps shall be injection molded cyclocac, 26" long x 5" wide, with raised, non-skid-pattern. Two wheels, 7" in diameter, with semi-pneumatic tires shall be mounted at the bottom of each rear leg. The bottom ends of each front leg shall be bent laterally to provide extra stability for the chair and fitted with ribbed, white rubber protective pads, 9" long.

6' Stainless Steel - Natare #12-500

D. Grab rails, Steps, Ladders:

1. Provide \_\_\_\_ pair of figure 4 grab rails. They shall be fabricated of one continuous length of tubing. The tubing shall be stainless steel, 1.900" OD x .109" wall thickness, type 304 polished to 320 grit. All bends shall be smooth, wrinkle-free, and in the same plane.
2. Provide \_\_\_\_ cast bronze anchor sockets 4 1/4" long and made to receive 1.900" O.D. tubing for each guardrail pair with stamped stainless steel escutcheons.

.109" wall - Natare #44-072

3. Provide \_\_\_\_ built-in stainless steel steps formed of 12 gauge stainless steel, type 304, polished to a #3 finish. Bottom surface of step shall be sandblasted to give a non-skid surface. The opening shall be 12" wide x 5" high x 5 1/2" deep. The step shall have lugs for anchoring it to the grout.

Natare #44-052

4. Provide Access stair railing(s) as detailed on the drawings. Stair frame shall be constructed of 1.900" O.D. x .109" wall thickness, type 304 polished stainless steel.

.109" wall - Natare #46-580

5. Provide \_\_\_\_ parallel bars suitable for removable installation. Parallel bars shall be constructed from 304 stainless steel in appropriate wall thickness for the intended useage. Tubing shall be polished to a 320 grit finish. The parallel bars shall incorporate a slip-resistant PVC walkway and shall be easily adjustable in height from 28" to 40"

Natare 46-560

6. Provide \_\_\_\_ specialty handrails, grab rails or therapy rails in accordance with the dimensions and location as noted in the plans. They shall be fabricated from stainless steel tubing, 1.900" O.D x (.065", .109, .145) wall thickness, type 304, polished to a 302 grit. All bends shall be smooth and wrinkle-free, and in the same plane. All welds shall be cleaned and highly polished to blend with the finish of the tubing.
7. Provide \_\_\_\_ cast bronze or stainless steel anchors or anchor sockets in the appropriate type and configuration for each handrail with stamped stainless steel escutcheons.

E. Stanchions:

1. Provide \_\_\_\_ backstroke stanchions. Stanchion shall be a straight length of stainless steel tubing, 1.900" O.D. x .109" wall thickness x 8' overall length. It shall be capped at one end with a closure plug containing a chrome plated bronze eyebolt. The stanchion shall also be fitted with a nickel plated bronze sliding collar to permit attachment of pennant lines at different levels.
2. Provide a stanchion socket for each stanchion. It shall be of cast bronze, sized to receive a full 6" penetration of the stanchion. It shall receive 1.900" O.D. tubing and shall be fitted with a threaded, vandal-proof closure plug.

.145" wall - Natare #46-022, #46-030, #46-040

3. Provide \_\_\_\_ recall stanchions. Stanchion shall be a straight length of stainless steel tubing, 1.900" O.D. x 1.45" wall thickness x 4' 6" overall length. It shall be capped at one end with a closure plug containing a chrome plated bronze eyebolt. The stanchion shall also be fitted with a nickel plated bronze sliding collar to permit attachment of pennant lines at different levels.
4. Provide a stanchion socket for each stanchion. It shall be of cast bronze, sized to receive a full 6" penetration of the stanchion. It shall receive 1.900" O.D. tubing and shall be fitted with a threaded, vandal-proof closure plug.

.145" wall - Natare #46-022, #46-030, #46-040

F. Starting Platforms:

1. Provide \_\_\_\_ starting platforms. Paraflyte starting platform shall consist of an elevated platform constructed from UHMW polymer, 24" x 20" supported by a sloping, stainless steel pedestal. The elevated platform shall have a non-skid tread and shall be tilted 10° toward the pool. The top surface of the platform, when set level, shall be \_\_\_\_ " above the deck. The leading edge of the platform, whether set level or tilted, shall be a maximum of 30" above the water surface. An intermediate step shall be provided for platforms exceeding 17" in height above the deck. A backstroke bar shall be attached so that it is independently removable. Starting platforms shall be anchored in a single bronze socket with an integral fastening flange. The socket shall be furnished with a closure plate. Location of socket shall be determined by the manufacturer.

Natare #46-100

G. Racing Lane Markers, Storage Reel, Reel Cover, Storage Bench & Anchors

1. Provide \_\_\_\_ "Competitor" racing lanes (60', 75', 25 meter, or 50 meter) long. Lanes to be manufactured with low density polyethylene discs. Each disc must revolve independently on the vinyl covered stainless steel cable. A stainless steel and bronze ratchet take-up reel and spring dual tension system must be provided. Available colors are blue, green, white, red or yellow.

60 feet - Natare #14-329

75 feet - Natare #14-330

25 meter - Natare #14-331

50 meter - Natare #14-332

2. Provide \_\_\_\_ "Competitor" racing lanes (25 meter or 50 meter) long with special disconnects which will allow lanes to be converted to (25 yds. or 50 yds.) long. Lanes to be manufactured with low density polyethylene discs. Each disc must revolve independently on the vinyl covered stainless steel cable. A stainless steel and bronze ratchet take-up reel and spring dual tension system must be provided. Available colors are blue, green, white, red or yellow.

25 meter—Natare #14-334

50 meter—Natare #14-333

3. Provide \_\_\_\_ "Competitor" Stor-lane reel. Reel will store nine 60' lanes, seven 75' lanes, six 25 meter lanes, or three 50 meter lanes. Reel ends are long lasting thermo-formed ABS. The steel carriage frame is to be vinyl covered and mounted on 5" hand rubber wheels. Storage unit is 68 1/2" long, 46" wide, 57 3/4" high.

Stor-Lane Reel—Natare #14-360

4. Provide \_\_\_\_ Stor-lane reel cover. Cover to be heavy duty navy blue vinyl.

Stor-lane Reel Cover—Natare #14-365

5. Provide \_\_\_\_ "Competitor" high density polymer storage benches with stainless steel/cast aluminum frames to serve as permanent pool deck seating for swimmers and as accommodations for conventional lanes, pool vacuum hose, kick boards, etc. Provide with bottom sections and end plates as required for the building configuration and lane/equipment storage requirements. Nine 60' lanes require eight benches, 75' lanes require ten benches, 25 meter lanes require eleven benches, nine 50 meter lanes require twenty-two benches. Bench shall be 92" x 15 1/2" x 15" in white, aqua blue or custom color as specified on the drawings or finish schedule. Benches shall have hinged top. Provide with stainless steel floor anchors and hardware..

"Competitor" Bench—Natare #14-364

6. Provide \_\_\_\_ (stainless steel) cup type racing lane anchors with (removable) eyebolts to be embedded in the concrete for both racing lane markers and safety line kits.

Anchors/Eyebolts—Natare #14-530

H. Safety Line Kit:

1. Provide \_\_\_ safety line kit, \_\_\_ feet long. Polypropylene rope must be 3/4" and 5" X 9" floats five feet on centers must be provided. Rope hooks 3/4" will be provided for connection to eyebolts.

Natare #12-380 & #14-444

N. Splash Curtain

1. Provide \_\_\_ hanging style splash curtain 70' X 24" with special stanchions. Curtains are made of heavy vinyl-coated nylon with all edges hemmed and top edge having a 1 1/4" poly rope bound into the top seam for greater tear strength. Grommets to be securely fastened in the top edge and placed on 7' centers.

Curtain—Natare #46-400

2. Swimming Pool Lift for handicapped access
3. Provide \_\_\_ water powered pool access lift. The lifts shall be all water powered and have no electrical or hydraulic connections.

All exposed components shall be of high quality stainless steel, bronze or epoxy coated steel. It shall be designed specifically for use in a highly corrosive, high humidity atmosphere.

The main lifting handle shall be designed such that a maximum load of 350 pounds can be lifted without effort by the operator. The lift handle shall be easily removable to prevent unauthorized use. The lift shall have a fail-safe braking system and either a semi automatic or fully automatic control valve conveniently located immediately adjacent to the seat. The lift shall be fully operable in a 360° radius and shall be easily operated by one person.

The lift shall be furnished complete with outer arm, headrest, footrest, spineboard adapter and spineboard.

The unit shall be attached by means of a socket anchor that is poured in place in the deck (or deck plate anchor). The lift shall be easily removable for storage when not in use and an escutcheon plate shall be provided to cover the socket anchor.

Swimming Pool Lift-Natare #46-619

P. Water Polo Goals

1. Provide \_\_\_ Olympic style official water polo goals built to Olympic, NCAA and AAU specifications: 10' wide, adjustable 3' to 5' height, 18" depth. Featuring special goal adjust ability for both shallow and deep end play. Front goal frame constructed of 3" wide rectangular aluminum, anodized high visibility yellow. Sides and back part of connecting frame made of 2" O.D. heavy duty aluminum which sets securely into pool deck anchor sockets (two each per goal). Adjustable rubber tipped bottom rear extension mounts maintain perfect vertical goal alignment regardless of pool contour. Built-in eyelets on back face of outside frame for ease in lacing properly.

Goals—Natare #92-820M

2. Provide \_\_\_ official AAU water polo goal nets. Olympic style to fit exact dimensions of above goals. Constructed of heavy duty knotless nylon, specially treated, water resistant for longer life.

Net—Natare #92-830M

3. Provide \_\_\_ official floating water polo goal and net built to Olympic, NCAA and AAU specifications: 10' wide x 3' high. Featuring an all new marine-type constructed fiberglass float for stability and performance. Front goal frame constructed of 3" wide rectangular anodized aluminum with stainless steel fasteners. Unit comes complete with official water polo net constructed of heavy duty knotless nylon, specially treated, water resistant for longer life.

Goal/Net—Natare #92-815

4. Provide \_\_\_ practice portable water polo goals (shallow & deep) constructed of heavy wall 1 1/4" O.D. aluminum with safe-rounded fittings. Features exclusive, epoxy coated, interchangeable counter weights, with adjustable extension rods to mount into rear goal fittings either vertically or horizontally. This two-way

adaptation provides custom fit goals to exact pool needs. Goal sizes differ. Deep end goal: 10' wide x 4' high x 2 1/2 ' goal depth. Shallow end goal: 10 ' wide x 4' high x 2 1/2 ' goal depth. Goals only, net not included.

Goal—Natare #92-800

Q. Water Basketball Goals & Water Volleyball

1. Provide \_\_\_\_ water basketball goals. Each unit's frame and T base is constructed of type 304 stainless steel for durability and ease of maintenance. Backboard is to be made from colorfast compression molded fiberglass with goal and net. Heavy rubber floor pads must be provided to protect swimming pool deck. Anchorage is provided by a stanchion socket or a twist-lock anchor where a stanchion socket is unavailable.

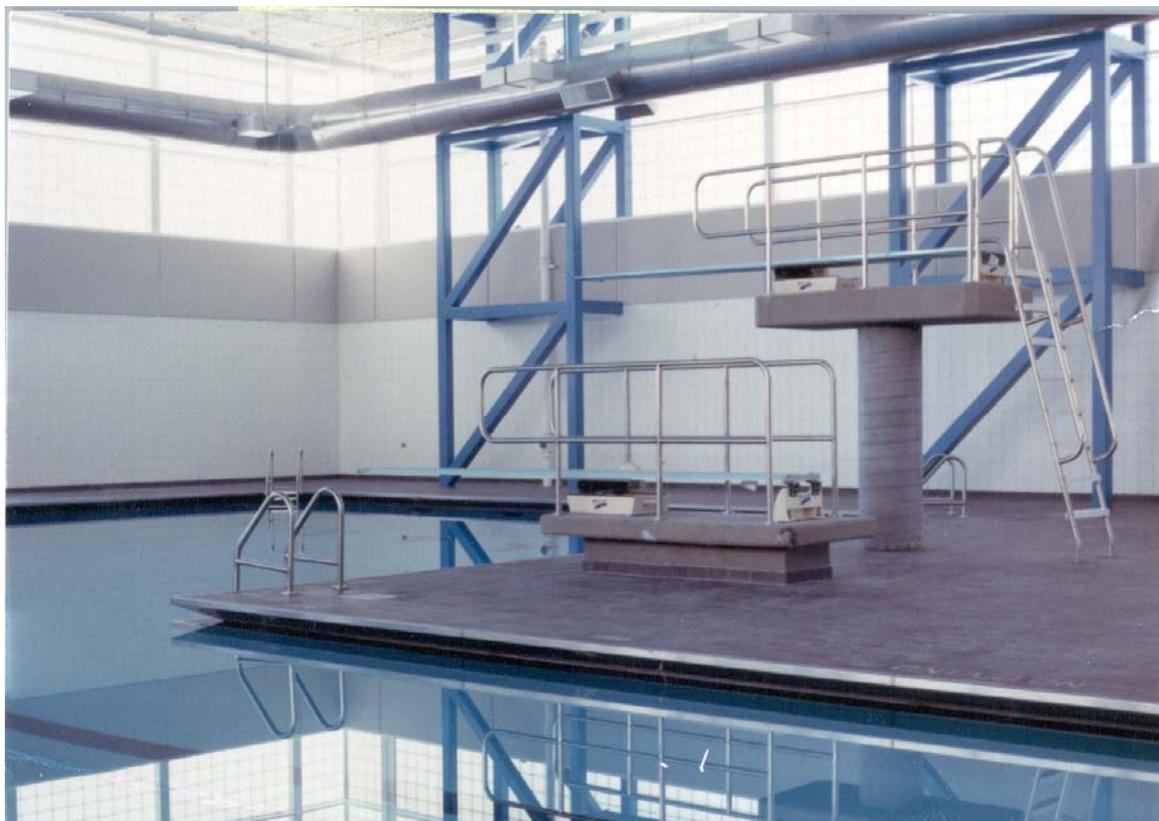
When stand is used to support a water volleyball net, the backboard is rotated 180° and the net is attached to the sliding collar eyes on the upright.

Water Basketball Goal—Natare	#92-845
Water Volleyball Net—Natare	#92-873
Deck Standard, straight style—Natare	#92-857
Deck Standard w/ twist lock anchor—Natare	#92-858
Water Basketball—Natare	#92-855
Water Volleyball—Natare	#92-862

S. Acoustical Panels

T. Thermal Swimming Pool Cover and Storage system.

V. Electronic judging and timing equipment, Scoreboards



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