



## POOLSIDE CLIMBING WALL SPECIFICATIONS AQUACLIMB CLASSIC MODEL AC-C

Sole Source: AquaClimb – PO Box 530 – Frederick, MD 21705 (800) 956 6692

### 1.1 SYSTEM DESCRIPTION

Deck mounted aquatic climbing wall manufactured off site, designed to withstand chlorinated environments.

### 1.2 COMPONENTS:

#### **Base**

The aquatic climbing wall base shall be fabricated from 1-½" square tube with 0.120" wall thickness, grade 304 stainless steel with an epoxy texture powder coating, chemically resistant- developed for coating buried in-ground pool components . The base shall be designed to extend over various types of gutter and coping configurations. The maximum footprint of the base will be 32" from the pool wall onto the deck. The base shall be anchored to the pool deck via 5/8" stainless steel wedge anchors.

#### **Frame**

The aquatic climbing wall frame shall be fabricated of 1-½" square tube with 0.064" wall thickness, grade 304 stainless steel with an epoxy texture powder coating, chemically resistant- developed for coating buried in-ground pool components. The main frame shall be vertical for the bottom 39" before extending at a 12 degree angle over the water for the remaining climbing area. The frame will then be vertical for ½ meter at the top for the clear safety panel. The bottom climbing panel(s) of the main frame shall be partially submerged and drops below the deck level by 24". The main frame with panels attached extends approximately 3-¼" to 3-½" from the pool wall (no aquatic climbing wall materials may touch pool wall). The maximum gap between the pool wall and the backside of the AquaClimb frame must be no greater than 1-¼" to 1-½". Total width of each base section is approximately 40".

#### **Panels**

1 meter x 1 meter (approx 39.3" x 39.3") climbing panels are a gently textured, non-slip surface, made of hand sculpted; hand carved high quality fiberglass reinforcing, polyester resin with protective additives. Panels must be able to withstand UV and chlorinated environments. Panel system shall provide integral, adjustable molded climbing holds and 5 - 7 modular climbing hold attachment locations compatible with 3/8"-16 or 10mm threaded fasteners for surface mount. Thickness: Edge: 15mm + or – 1mm Field: 6-8mm + or – 1mm. Color: Standard colors are Aquatic (light blue, green, dark blue, aqua and white). Additional colors can be chosen by owner or architect at an additional cost & lead time. Top safety panel shall be comprised of ½" clear polycarbonate, which is bevel cut and polished on all edges.

#### **Holds**

Each climbing panel will include 5 modular hand holds. Hand holds shall be comprised of polyester resin with UV inhibitors. Colors will be random. Hand holds will be fastened to climbing panels using grade 18-8 stainless steel fasteners.

#### **Anchors**

Anchors shall be comprised of 5/8" x 6" (typical installation) stainless steel concrete wedge anchors in anchors with a safe working load of 2075lbs/ea. Tightening torque is 90lbs per anchor. 4 anchors per base section are required.

#### **Fasteners**

Climbing panel: Through bolt: shall be 10mm or 3/8in, grade 18-8 stainless steel, and countersunk flush to climbing surface. Modular Hand Hold: Through bolt: shall be 10mm or 3/8in, grade 18-8 stainless steel, and countersunk flush to climbing hold. Lengths vary depending on climbing hold. Frame connector fasteners will be comprised of 3/8" x 6" grade 18-8 stainless steel. All connection points will require washers.



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### Cover - Optional

The back side of the panels shall be blocked by a modular cover to deter patrons from climbing back of panels and providing protection to the patrons from the structure and base.

### 1.3 WARRANTY

Aquatic climbing wall manufacturer shall warrant to the original purchaser for one year from the date of substantial completion that its products are free from defects in material and workmanship.

### 1.4 DESIGN REQUIREMENTS

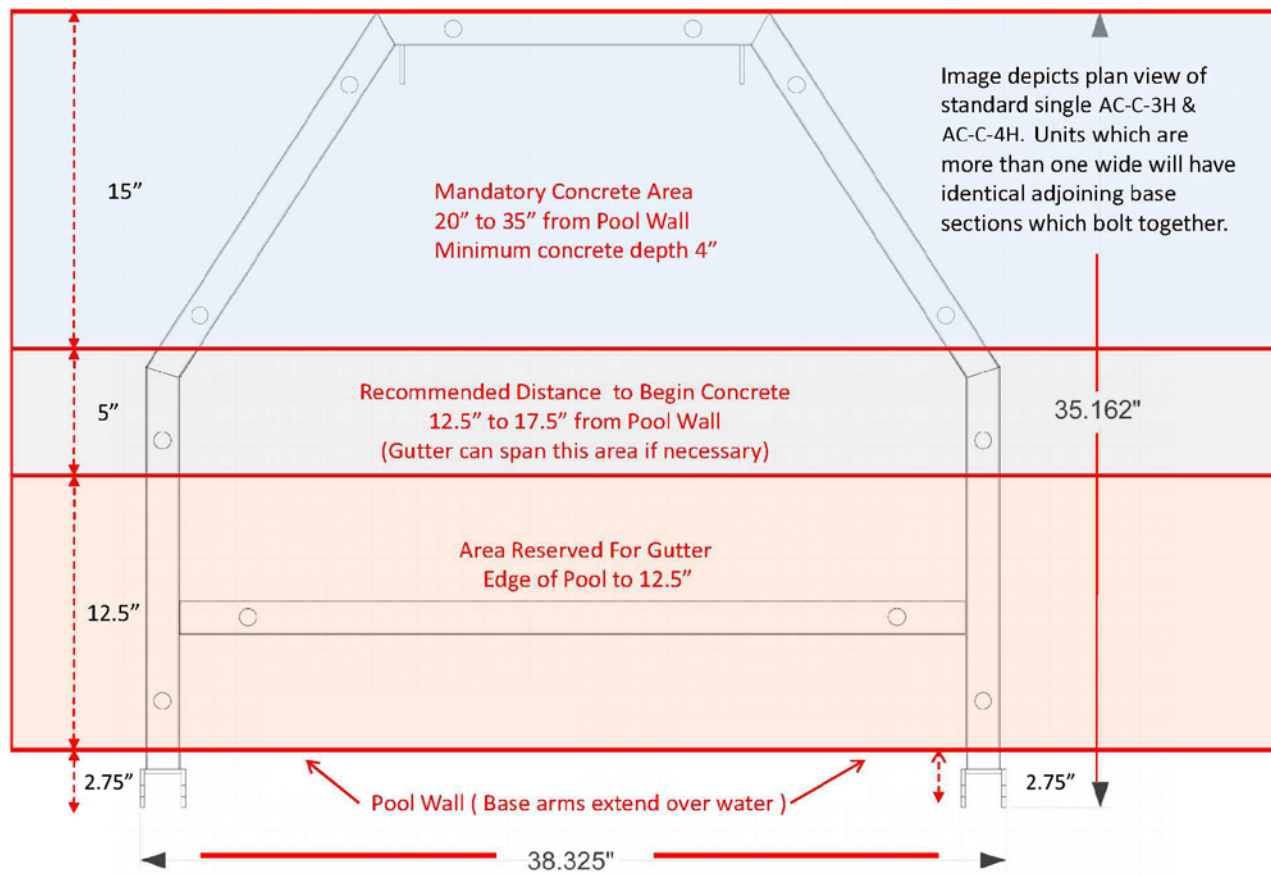
#### Concrete

Minimum concrete depth of 4" required in installation area. Concrete should have 4000 psi rating or greater.

#### Deck & Gutter

The pool deck in the AquaClimb installation area should be as level as possible. If the pool has a coping greater than 2", or does not meet the standard base concrete requirements, please contact an AquaClimb representative.

### AquaClimb Standard Base Design Requirements





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### Pool Depth Requirements

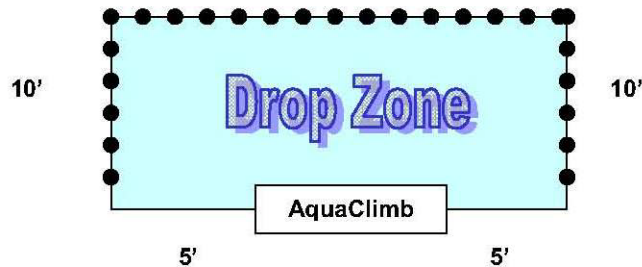
Minimum pool depths for installation are as follows:

AquaClimb 3 panels high Minimum depth from 5 feet

AquaClimb 4 panels high Minimum depth 9 feet

### Drop Zone

Drop zone for each aquatic climbing wall shall extend 10ft from pool wall into water, and 5ft on both sides. Climbing wall must be a minimum of 5ft from any pool edge.



### Clearance

Climbing wall requires a minimum clearance of 5 ft from edge of concrete on deck to any obstruction behind on deck.

### New Construction

If AquaClimb is being installed in a new construction project, it is recommended that the concrete in the installation area be level for the footprint of the AquaClimb base. If you would prefer to have sleeve anchors embedded in the concrete to allow for deck to be obstruction free if AquaClimb base is removed, please contact an AquaClimb representative for details on concrete requirements.