



800-956-6692  
www.aquaclimb.com

## AQUATIC CLIMBING WALL SPECIFICATIONS

### AquaClimb Classic – *Krystal* Model (AC-C-K)

Manufactured by Pyramide USA Inc. – PO Box 530 – Frederick, MD 21705

#### 1.1 SYSTEM DESCRIPTION

Deck-mounted artificial aquatic climbing wall features **clear polycarbonate panel system**, 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 maximum footprint of the base will be 32" from the pool wall onto the deck for wall heights designated as 2H, 3H or 4H and 38" for 5H walls.

##### **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 a minimum of 25" at the top for the safety panel area. The bottom climbing panel(s) of the main frame shall be partially submerged and drops below the deck level by approximately 29". 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". Total width of each base section is approximately 40". An unlimited number of sections may be attached together to form a single wall.

##### **Panels**

Climbing panels and safety panel(s) are non-abrasive flat ½" thick clear polycarbonate plastic, which is bevel cut and polished on all edges, with scratch resistant coating, able to withstand UV and chlorinated environments.

##### **Holds**

Climbing holds are non-abrasive polyester resin with UV inhibitors in aquatic colors. Hand holds are modular and can be rotated and/or moved to predrilled locations.

##### **Anchors**

Standard anchor system includes four 5/8"D x 6"L stainless steel mechanical wedge anchors per base section with a safe working load of 2075lbs/ea. Tightening torque is 90lbs per anchor. Additional anchoring options may be required for various types of gutter and coping configurations. This will be determined based on gutter details provided.

OPTIONAL flush anchors may be requested at additional cost, Hilti HDI 5/8"D stainless steel drop-in anchors, which require 5 1/8" concrete depth. Additional manufacturer specs and recommendations available upon request.

### Fasteners

Climbing panels and holds are attached by grade 18-8 stainless steel through-bolts countersunk flush to surface.

### 1.3 WARRANTY

AquaClimb Krystal is warranted to the original purchaser to be free from defects in material and workmanship from the date of installation:

Frame – Limited Lifetime Warranty

Panels – Limited 2-Year Warranty

### 1.4 DESIGN RECOMMENDATIONS

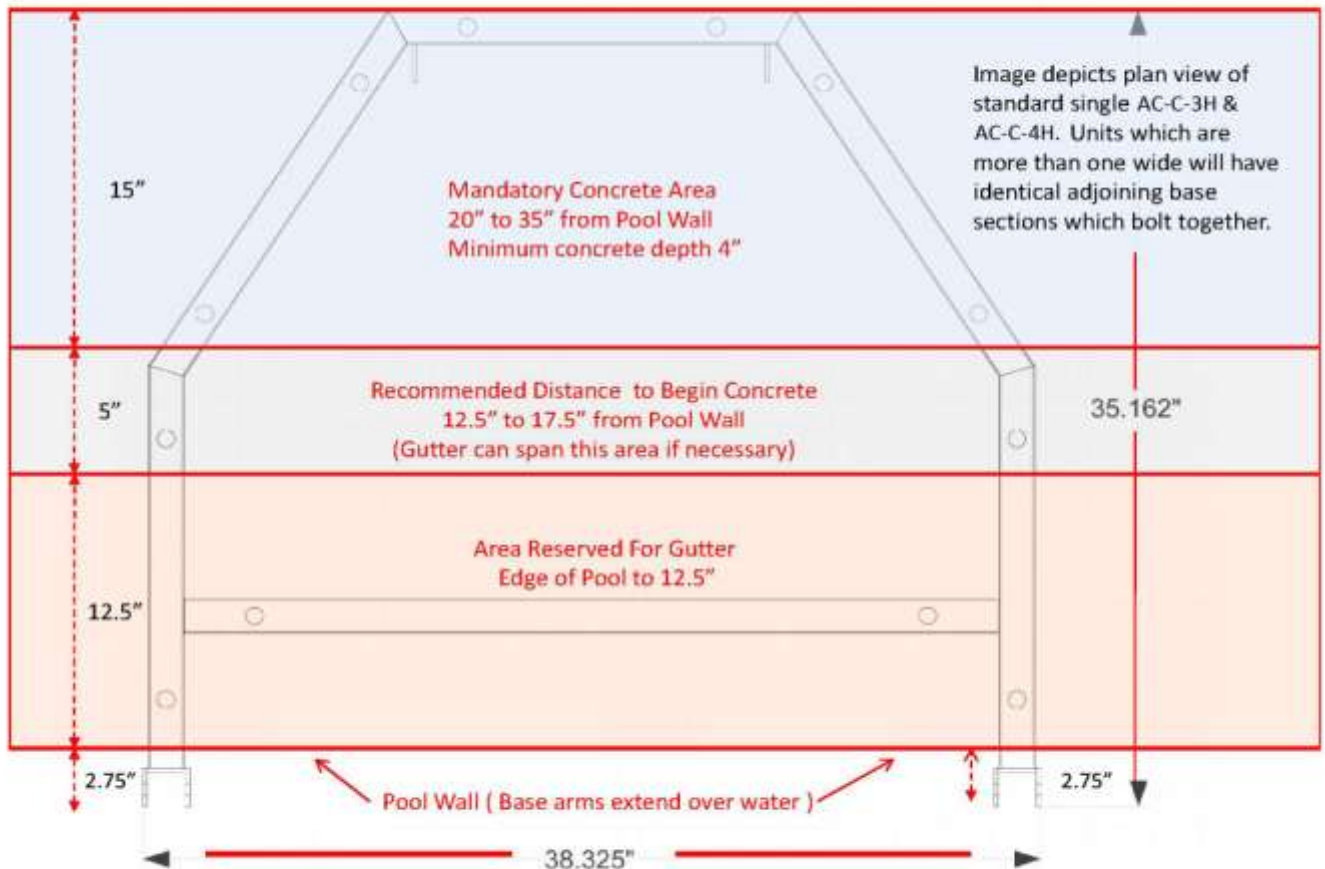
#### Deck & Gutter

The pool deck in the AquaClimb installation area should be as level as possible. If the pool has a coping greater than 1", or does not meet the standard base concrete requirements below, additional hardware components may be required. Please complete the AquaClimb Gutter Configuration Worksheet available at [www.aquaclimb.com](http://www.aquaclimb.com) (Resources) and contact an AquaClimb representative to determine the proper installation hardware and anchoring required.

#### Concrete Requirements

Standard length wedge anchoring system requires a minimum concrete depth of 4" with 4000 psi rating or greater embedded to a minimum depth of 2 ¾". See Hilti requirements for flush-mount anchors.

### AquaClimb Standard Base Design Requirements



### **Climbing Wall Height & Width Options**

All AquaClimb Classic models utilize the same modular frame design, allowing left-to-right attachment of an unlimited number of sections, each approximately 40" wide. Wall heights are designated as 2H, 3H, 4H or 5H indicating the height of the actual climbing panel surface in number of meters (2H=2 m of climbing panels). Note: This is not equal to the overall height of the wall, which includes the upper safety panel, nor to the height above the pool deck since lower climbing panel extends into the pool.

See the AquaClimb Product Guide for additional information regarding configuration options and specific dimension details.

### **Clearances & Safety Recommendations**

Please contact an AquaClimb representative for current product information regarding pool depth and clearance zone recommendations based on the wall size and configuration to be installed.

State certified engineered drawings and/or drawings specific to actual site installation details may be required for approval of AquaClimb installation. Standard structural engineering drawings are available at no charge. State or site specific engineered drawings may be an additional cost. Please contact the appropriate local governing department for more information.

### **Additional Information**

AquaClimb product guide, installation instructions, owner's maintenance guide and other resources are available at [www.aquaclimb.com](http://www.aquaclimb.com) or contact us for assistance at 800-956-6692.