



AQUATIC CLIMBING WALL SPECIFICATIONS

AquaClimb **KURVE** Concave/Convex (AC-K)

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

1. SYSTEM DESCRIPTION

Deck-mounted aquatic climbing wall featuring **modular 3D contoured translucent polycarbonate panels**, manufactured off site. Designed to withstand chlorinated environments.

2. COMPONENTS

Base

The aquatic climbing wall base shall be fabricated from 1-½" square tube with 0.125" wall thickness, grade 316 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 51" from the pool wall onto the deck for wall all heights.

Frame

The aquatic climbing wall bottom frame shall be fabricated of 1-1/2" x 3" tube with .188" wall thickness and top frame shall be fabricated of 1-1/2" x 1-1/2" tube with .188" wall thickness, all grade 304L stainless steel with an epoxy texture powder coating, chemically resistant - developed for coating buried in-ground pool components. The main frame shall start either flush with the deck, or shall extend 24 inches below the deck and be positioned so the bottom of the frame is perpendicular to the pool floor and progresses up and away from the floor in concaved fashion at a radius of 250 inches then transitioning to convex half way up at the same radius and extending 25 inches over the water. A 29" height of safety panel is located at top. The main frame with panels attached extends approximately 3-1/2" to 4-1/4" from the pool wall (no aquatic climbing wall materials may touch pool wall). The maximum gap between the pool wall and the bottom edge 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

Fully modular 1 meter x 1 meter (approx 39.3" x 39.3") climbing panels are made of 3/8" thick translucent polycarbonate shaped by hand to make the concave or convex bends as needed. Top safety panel(s) are flat clear polycarbonate plastic. All panels are bevel cut and polished on all edges, able to withstand UV and chlorinated environments.

Holds

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

Anchors

Standard anchor system includes six 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 4" concrete depth. Additional manufacturer specs and recommendations available upon request.

Fasteners

Climbing panels and holds are attached using a patented load dissipation assembly to prevent panel cracking and grade 18-8 stainless steel button head bolts.

3. WARRANTY

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

Frame – Limited 3-Year Warranty

Panels – Limited 2-Year Warranty

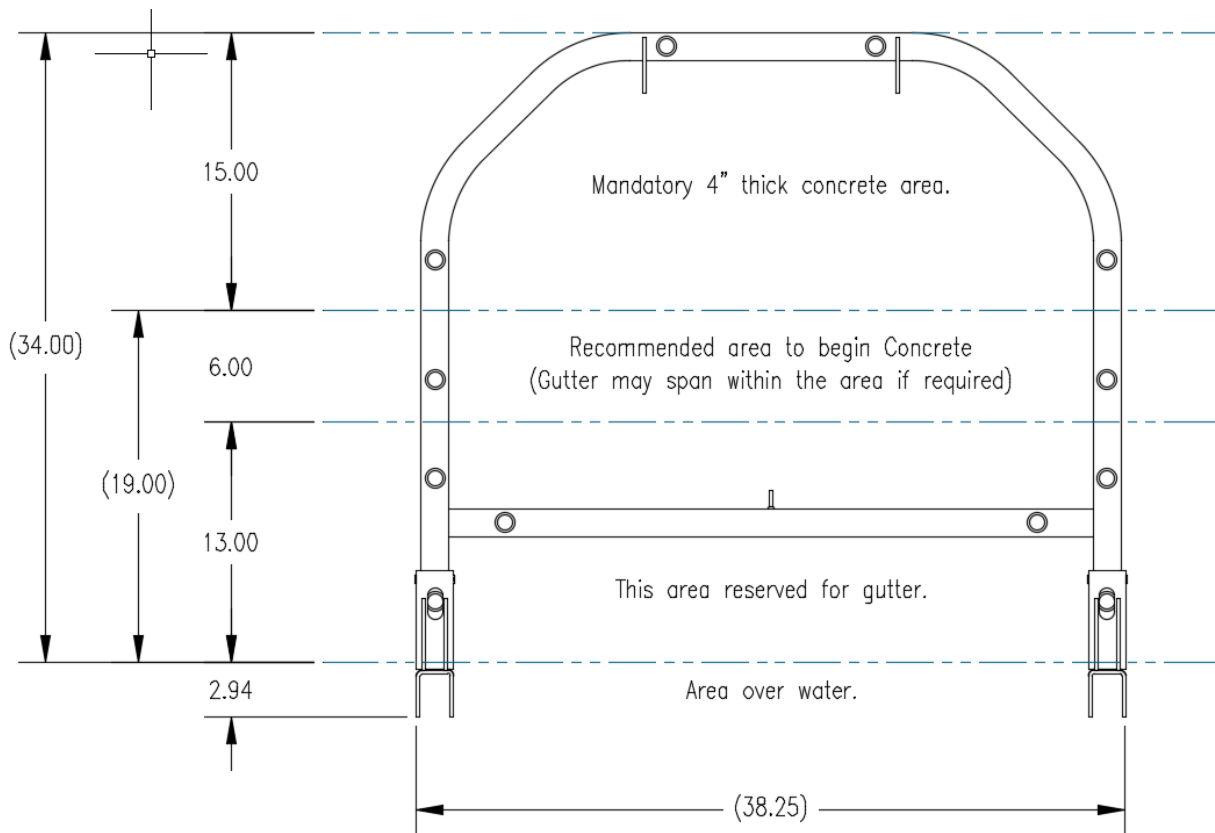
4. DESIGN RECOMMENDATIONS

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 1/2", 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 (Resources for Architects) 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 3/4". See Hilti requirements for flush-mount anchors.



Climbing Wall Height & Width Options

All AquaClimb KURVE 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 4H or 6H indicating the height of the actual climbing panel surface in number of meters (4H=4m 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 or contact us for assistance at 800-956-6692.