

AQUACLIMB® 3D SPECIFICATIONS

System Description

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

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 33" from the pool wall onto the deck for wall heights designated as 2H, 3H or 4H and 51" for 5H walls.

Frame

The aquatic climbing wall frame shall be fabricated of 1-½" square tube with 0.125" (lower frame) and 0.06" (all other frames) wall thickness, grade 316 Stainless Steel for lower frame and grade 304L stainless steel for all other frames, 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 13 degree angle over the water for the remaining climbing area. The frame will then be vertical for a minimum of 29" 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

Fully modular 1 meter x 1 meter (approx 39.3" x 39.3") climbing panels are made of ⅜" thick clear polycarbonate shaped from hand-sculpted molds featuring various 3D climbing contours. 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. Panel color selection in translucent Ice, Glacier, Jade models, and solid painted color schemes in Canyon (tan and gray) or Ascent (blue and green) panels. Solid color customization available at additional costs and lead times.

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 pre-drilled locations.

Anchors

Standard anchor system includes four ⅝"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. 5H walls require six standard anchors.

Optional flush anchors may be requested at additional cost, Hilti HDI ⅝"D stainless steel drop-in anchors, which require 4" concrete depth. Additional manufacturer specs and recommendations available upon request.

AquaClimb® 3D (AC-3D): Selection of Ice, Glacier, or Jade translucent panels, or Ascent or Canyon solid color models

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.

Warranty

AquaClimb® 3D is warranted to the original purchaser to be free from defects in material and workmanship from the date of installation:

- Frame: Limited 2 Year Warranty
- Panels: Limited 2 Year Warranty

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 1-½", or does not meet the standard base concrete requirements below, additional hardware components may be required. Please complete the Poolside Adventures™ Gutter Configuration Worksheet available on our website and contact a Poolside Adventures™ 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.

Standard Base of Design Requirements

Climbing Wall Height & Width Options

All AquaClimb® 3D 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 = 2m 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 a Poolside Adventures™ representative for current product information regarding pool depth and clearance zone recommendations based on the deck 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.

Poolside Adventures™ product guides, installation instructions™, owner's maintenance guide and other resources are available at www.poolsideadventures.com or can be requested by calling 800-956-6692.

