

BOOK OF DESIGNS: Poolside Water Features



Construction

Engineered Boulder Construction is the modern method for building pool water features and grottos. Rock face panels made from fiber reinforced, high-performance, polymeric concrete are used to hand craft rock and boulder formations. This high strength material allows for steel framed, hollow core features which drastically reduce weight and stress on the pool structure.







After



Construction

440-564-1157





Panel Characteristics

- 4x stronger than wet cast concrete .
- **6x times** greater tensile strength higher tensile strength creates impact resistant GFRC matrix.
- 2x-3x longer longevity than that of conventional concrete, with improved resistance to freeze/thaw, extreme heat, and weathering.
- Greater color adherence, UV stable.
- Virtually no efflorescence.
- Originally designed for extreme water features, requiring high performance with extreme load bearing capacity under a range of environmental stresses.

Superior Building Material

Three Components

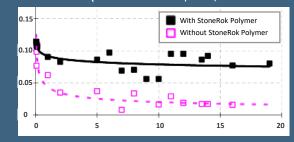
- Cementous Composite w/ Reactive
 Powders
- Blended with several fibers (including Kevlar-like fibers)
- Liquid Acrylic Polymer

Strength Data

Compressive Strength: ≈10,500 PSI Flexural Strength: ≈1,650 PSI

20 Year Durability Study

Flexural Strain to Failure (E Modulus of Rupture)



Years (Natural Weathering)



Construction

The ClifRock Panel System allows homeowners to build a remarkable realistic waterfall with less time, and with minimal property disruption, letting the homeowner spend more time enjoying their pool.











A Better Construction System Aesthetics

- Looks more "natural" than real stone
- Hide "guts" plumbing, lighting, audio

Light Weight

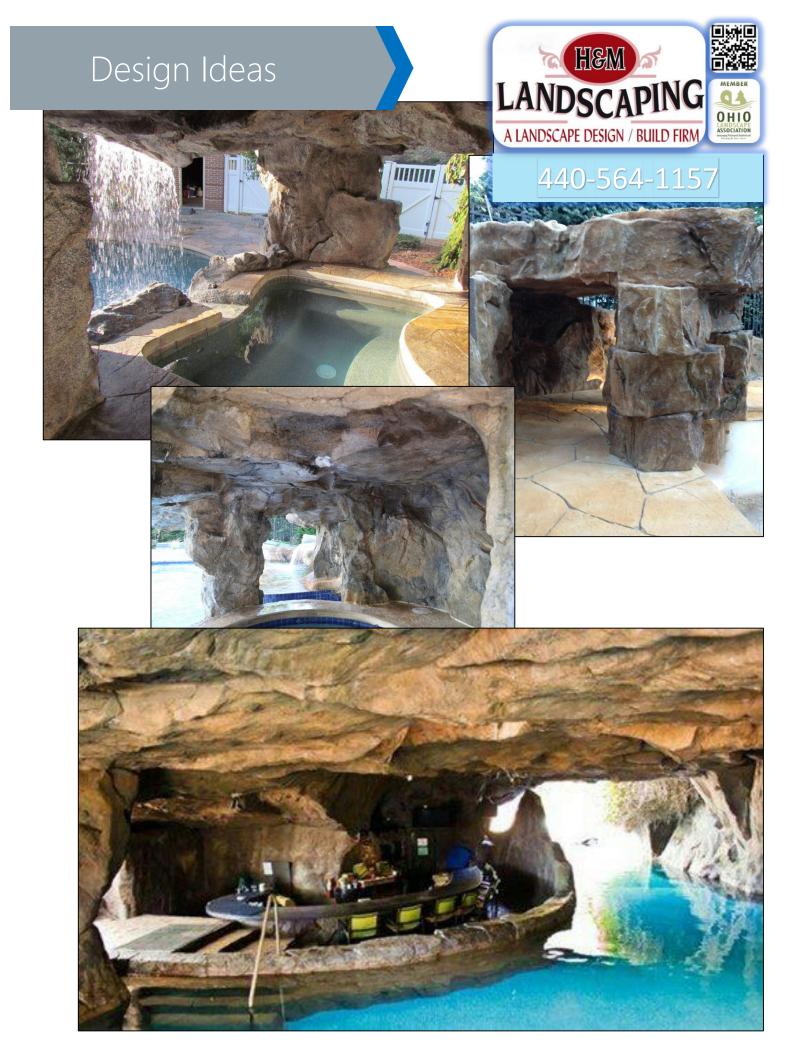
- Better for pool and pool deck
- Less expensive for renovation
- Larger cantilever, better grottos
- Safer for property and employees

Accessibility

- No heavy equipment needed
- Access to tight backyards

Installation Speed

- Jobs typically completed in days not weeks.
- Less property disruption = less time

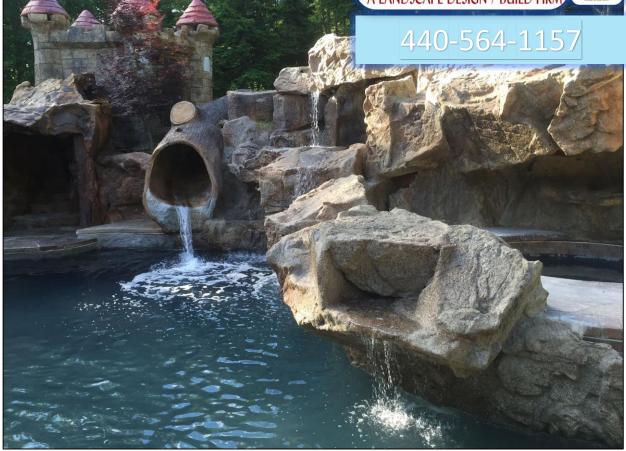






Design Ideas











Design Ideas













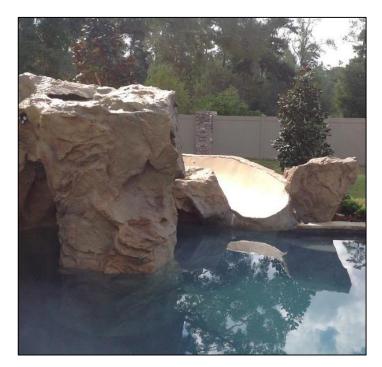




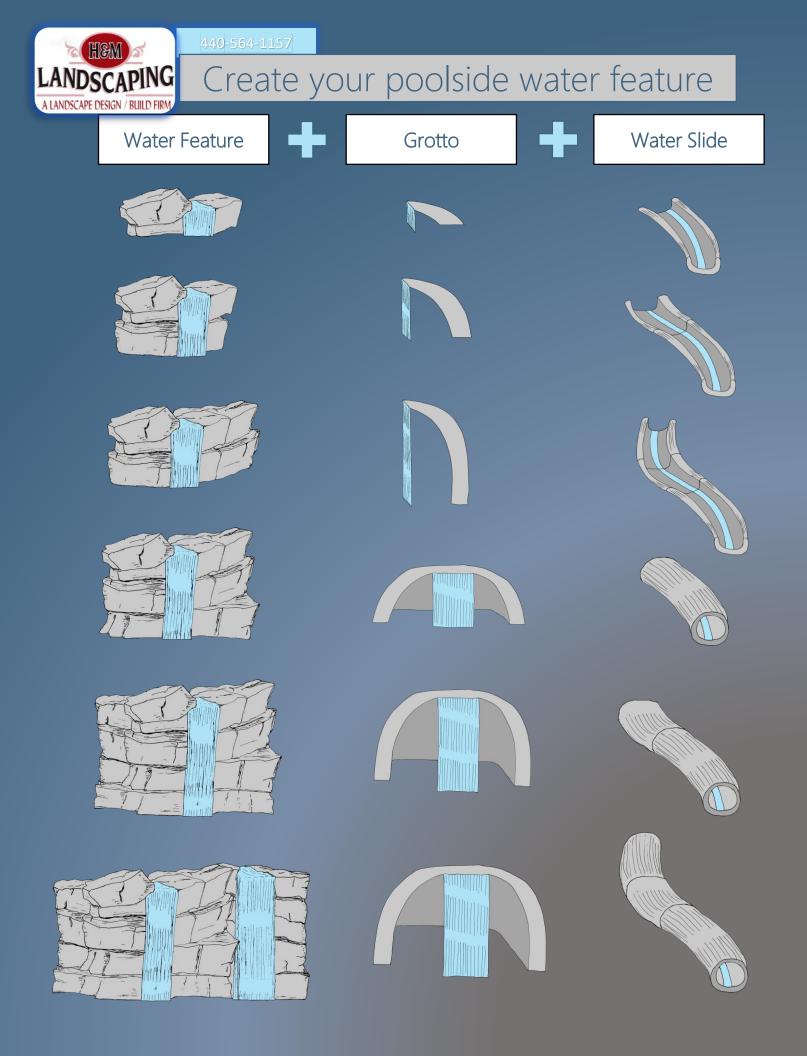
Design Ideas











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LANDSCAPING A LANDSCAPE DESIGN / BUILD FIRM A LANDSCAPE DESIGN / BUILD FIRM

ANDSCAPE DESIGN / BUILD FIRM Water Feature	Dimensions	Approx. Cost
	10' wide x 5' deep x 3.5' tall (230 ft ² Surface Area)	\$10,000
	10' wide x 5' deep x 6' tall (300 ft ² Surface Area)	\$15,000
	15' wide x 8' deep x 6' tall (575 ft ² Surface Area)	\$25,000
	15' wide x 10' deep x 10' tall (880 ft ² Surface Area)	\$50,000
	20' wide x 12' deep x 12.5' tall (1,400 ft ² Surface Area)	\$75,000
	30' wide x 15' deep x 12.5' tall (1,950 ft ² Surface Area)	\$100,000

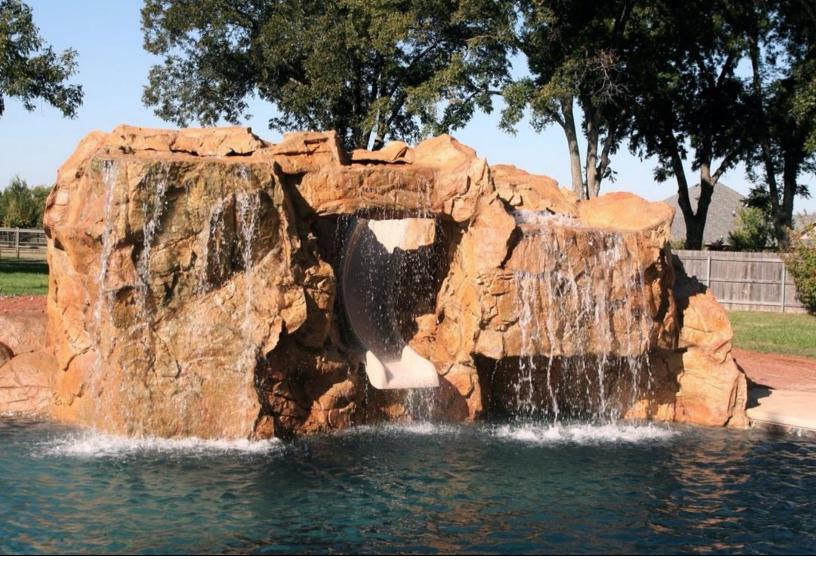
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LANDSCAPING Create your poolside water feature

LANDSCAPE DESIGN / BUILD FIRM		
Grotto	Dimensions	Approx. Cost
	5' wide x 3' deep x 3' tall	\$1,000
	(adds 15 ft ² Surface Area)	
	5' wide x 4' deep x 5' tall	\$1,500
	(adds 25 ft ² Surface Area)	
	7' wide x $4'$ doop x $7'$	
	7' wide x 4' deep x 7' tall (adds 50 ft ² Surface Area)	\$2,500
	10' wide x 6' deep x 4'	
	tall (adds 120 ft ² Surface Area)	\$6,500
	12' wide x 6' deep x 7' tall	\$10,000
	(adds 175 ft ² Surface Area)	\$10,000
	14' wide x 10' deep x	
	8' tall (adds 350 ft ² Surface Area)	\$20,000

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A LANDSCAPE DESIGN / BUILD FIRM Water Slid		Dimensions		Approx. Cost
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		½ tube, 10ft long (32' diameter)		\$10,000
		½ tube, 15ft long (32' diameter)		\$12,500
		½ tube, 20ft long (32' diameter)		\$15,000
		full tube, 10ft long (48' diameter)		\$15,000
		full tube, 15ft long (48' diameter)		\$20,000
		full tube, 20ft long (48' diameter)		\$25,000
		*Cost includes s	tairs built to t	top of slide.



## ClifRock





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