



Manpower, tools, materials, flow rates and weights

Waterfall Model	Weight of kit	Heaviest piece	Mortar needed*	Recommend flow rate
4 Piece Ledger	1,200 lbs	400 lbs	300 lbs	15-40 gpm
3 Ft Modular	1,200 lbs	240 lbs	400 lbs	40-60 gpm for sheet effect
4 Ft Double	2,000 lbs	240 lbs	800 lbs	60-80 gpm
Loveseat Grotto	1,500 lbs	300 lbs	½ yd concrete plus 300 lbs mortar	60-80 gpm
5 Ft Triple	3,500 lbs on 2 pallets	400 lbs	½ yd concrete plus 1,000 lbs mortar	80-120 gpm
24 Inch	600 lbs	150 lbs	160 lbs	20-30 gpm
28 Inch	800 lbs	150 lbs	220 lbs	20-30 gpm

Mortar (masonry cement and sand mix) should be the best quality available and is available in 40 and 80 lb bags at home improvement stores. For larger projects it is more economical to mix Mortar cement, type S, with masonry sand (1 part cement to 2-3 parts of sand depending on how fine the sand is).

Epoxy or construction adhesive like that used for concrete blocks can be used to set small rock pieces, eliminating mortar mess. RicoRock Waterproofing also works as a thin set, eliminating the mortar joint.

Additional Materials: All RicoRock waterfalls have internal plumbing supplied in 2 inch pvc; adaptors, fittings and flex pipe along with pvc glue are needed to complete the connection.

Blue flex hose makes a good sleeve for future lighting.

Tools usually needed: cement mixer or drill with mixing blade, 4 inch Grinder (to cut castings), 24 inch or torpedo level, wheelbarrow, buckets, rubber gloves, trowels, sponges and 2 inch paint brushes (the cheap ones are best), waterhose. A tree dolly works great for moving heavy cast pieces and a rubber mallet is good for pounding the pieces into the mortar without damaging the rock.

The **Touch Up Kit** that comes with most kits includes a small amount of patch cement (actually Waterproofing powder) that can be used to repair any damaged edges or scrapes. The 4 ounce stains in all 4 colors can be used to add accents or color mortar joints.