

CALCULATIONS

Rock Calculation for the POND

Length x Width ÷ 40 = Tons of boulders

Using a 1:2:1 ratio

For every (1 TON) of 6"-12" rock, Get (2 TON) of 12"-18" and (1 TON) of 18"-24"

Quantity of Boulders used in a STREAM

For Every 10' of STREAM = (1 ½ TON) using 1:2:1 RATIO from above

Quantity of GRAVEL Used in the POND

Pond Gravel = 30% total tons of pond boulders

Quantity of GRAVEL Used in the STREAM

Stream Gravel = 30% total tons of STREAM Boulders

Small MicroPond/ D.I.Y. Rock Calculation for the POND

Length x Width ÷ 65 = Tons of boulders

Small MicroPond / D.I.Y. Quantity of Boulders used in a STREAM

For Every 10' of STREAM = (½ TON) 6"-12" & (½ TON) 12"-18"

Quantity of Boulders Used for the FACE of the BIOFALLS®

Mini / Signature BIOFALLS® filter = (1 TON) will cover the face of the falls

Standard BIOFALL® filter = (1 ½ TON) will cover the face of the falls

Grande BIOFALLS® filter = (3 TON) will cover the face of the falls

Quantity of Stone Used in the A.D.I. PONDLESS BASIN

Length x Width x Depth = CUBIC FT.

- 90 lbs. of rock per (1) cubic foot (4"-6" and/or 1 ½"- 2" rock)
- Minimum 40% of 4"-6" rock, 60% of 1 ½" – 2" and then any additional decorative gravel for on top

Quantity of Stone Used in the MICRO PONDLESS BASIN

Length x Width x Depth = CUBIC FT.

- 90 lbs. of rock per (1) cubic foot (1 ½" – 2" only)

Quantity of Boulders to use around the perimeter of the BASIN

(½ TON) 6"-12" Stone will cover 20 linear feet of edge

(½ TON) 12"-18" Stone will cover 5 linear feet of edge

Quantity of Stone Used in a WETLAND FILTER (PER 10ft.²)

750 lbs. 4" – 6" River Gravel

900 lbs. 1 ½" – 2" River Gravel

900 lbs. ½" – ¾" River Gravel

Quantity of Boulders Used for RETAINING WALL

(1 TON) of 12"-18" size rock will cover 10 linear feet

(1 TON) of 18"-24" size rock will cover 5 linear feet

Approximate Gallons of Water in a POND

Length x Width x 80% x Avg. Depth x 7.48 = total gallons

***the basin takes up approximately 80% of the actual SQ. FT.

Approximate Gallons of Water in a STREAM

Length x Width x .25 (Depth) x 7.48 = Gallons in the stream.

Approximate Gallons of Water in a PONDLESS BASIN

Length x Width x 80% x Depth x 2.2 = Gallons in the Basin

You need 2x the amount of water in your basin

Electrical Consumption / Conversions

Amps x Volts ÷ 1,000 x .10 (kw/perhour) x 24 hrs x 30.4 days = Monthly Cost

Watts = volts x amps

Amps = watts ÷ volts