

PLASTER MIXING CALCULATION CHART

STEP #1 Calculate Volume in Cubic Inches.

Rectangle: Height (inches) X Width (inches) X Depth (inches) = Volume (cubic inches)

Cylinder: π (3.14) X radius (inches)² X Depth (inches) = Volume (cubic inches)

Sphere: $\frac{4}{3}$ X π (3.14) X radius (inches)³ = Volume (cubic inches)

STEP #2 Look up lbs needed of plaster and water.

Always round up. Example: A Rectangle 12x8x4=384 cubic inches. Round up to 400 ci to ensure you will have enough plaster.

Cubic Inches	lbs Plaster	lbs Water	Cubic Inches	lbs Plaster	lbs Water
20	0.75	0.50	420	15.75	10.50
40	1.50	1.00	440	16.50	11.00
60	2.25	1.50	460	17.25	11.50
80	3.00	2.00	480	18.00	12.00
100	3.75	2.50	500	18.75	12.50
120	4.50	3.00	520	19.50	13.00
140	5.25	3.50	540	20.25	13.50
160	6.00	4.00	560	21.00	14.00
180	6.75	4.50	580	21.75	14.50
200	7.50	5.00	600	22.50	15.00
220	8.25	5.50	620	23.25	15.50
240	9.00	6.00	640	24.00	16.00
260	9.75	6.50	660	24.75	16.50
280	10.50	7.00	680	25.50	17.00
300	11.25	7.50	700	26.25	17.50
320	12.00	8.00	720	27.00	18.00
340	12.75	8.50	740	27.75	18.50
360	13.50	9.00	760	28.50	19.00
380	14.25	9.50	780	29.25	19.50
400	15.00	10.00	800	30.00	20.00

STEP #3 Convert lbs needed of plaster and water to the units your scale uses.

Depending on the scale you are using, the scale will break down anything less than a lb into smaller units. Some scales read in tenths and hundredths, in fractions, or in ounces. Use the key below to convert to fractions and ounces.

0.25 = 1/4 = 4 oz

0.50 = 1/2 = 8 oz

0.75 = 3/4 = 12 oz