

THINSET AND GROUT CHART

Bags of thinset and pounds of grout from 25 to 500 square feet, at three tile sizes, plus what the joint width alone does to the grout order.

Thinset coverage is a property of the trowel, not the tile, and the trowel is chosen for the tile. A quarter inch square notch under small tile gets about 85 square feet from a 50 pound bag. Under a 12 inch tile the notch grows and the coverage falls to about 60. Under large format, with a half inch notch and back buttering, it is nearer 40, so the same floor can take twice the mortar purely because the tile got bigger.

Grout is the opposite. It is pure geometry: the joint volume around each tile, times the tile thickness, at about 105 pounds per cubic foot once mixed. Bigger tile means fewer joints and less grout, which is why the 24 by 24 column runs at roughly half the 12 by 12 column on the same floor at the same thickness.

Thinset bags and grout by area and tile size

Area	12x12 bags	12x12 grout, lb	12x24 bags	12x24 grout, lb	24x24 bags	24x24 grout, lb
25 sq ft	1	1.4	1	1.3	1	0.8
50 sq ft	1	2.8	2	2.5	2	1.7
75 sq ft	2	4.2	3	3.8	3	2.5
100 sq ft	2	5.6	3	5.1	3	3.4
150 sq ft	3	8.4	5	7.6	5	5.1
200 sq ft	4	11.2	6	10.1	6	6.8
250 sq ft	5	14	7	12.7	7	8.5
300 sq ft	6	16.8	9	15.2	9	10.2
400 sq ft	8	22.4	11	20.3	11	13.6
500 sq ft	10	28	14	25.3	14	17

Thinset in 50 lb bags, grout in pounds, both with 10 percent waste in the area. Grout is sold in 10 and 25 lb boxes, so round up to the box. Tile thickness is 5/16 in for the 12x12 and 3/8 in for the others, because grout volume follows the thickness as well as the joint.

Grout for 100 square feet, by joint width

Joint width	3x6 grout, lb	12x12 grout, lb	12x24 grout, lb	24x24 grout, lb
1/16 in	6.7	2.8	2.5	1.7
1/8 in	13	5.6	5.1	3.4
3/16 in	19.1	8.3	7.6	5.1
1/4 in	24.9	11	10	6.7

Joint width	3x6 grout, lb	12x12 grout, lb	12x24 grout, lb	24x24 grout, lb
3/8 in	35.7	16.3	14.8	10
1/2 in	45.7	21.4	19.6	13.3

Pounds of grout for 100 square feet of floor. Read one column down and the joint width is doing almost all of the work: it is the single biggest lever on a grout order, ahead of the area.

Every figure on this sheet was produced by the same calculator that runs at contractorhandbook.com, free and with no signup.

These are estimating figures for ordering and pricing, not engineering. Nothing here sizes a structural member, checks a load, or replaces local code, a permit, or a manufacturer's installation instructions. Where a rule of thumb is doing the work it is written into the notes under each table rather than hidden.