

INSULATION COVERAGE CHART

Fourteen wall and ceiling areas against six package coverages, and the cavity area that is actually left once the framing is taken out of the gross square footage.

The number on the bag is the square footage it covers, and the number you measured is the gross area of the wall. They are not the same thing, because between eight and ten percent of that wall is stud rather than cavity.

That gap is small enough to ignore on a closet and large enough to matter on a house. On 3,000 square feet of wall at 16 inches on center it is 300 square feet of framing you are not insulating, or three to four rolls of material you would otherwise have bought.

Bags or rolls by area and package coverage

Wall or ceiling area	40 sq ft	50 sq ft	60 sq ft	75 sq ft	88 sq ft	107 sq ft
100 sq ft	3	2	2	2	2	1
200 sq ft	5	4	3	3	3	2
300 sq ft	7	6	5	4	4	3
400 sq ft	9	8	6	5	5	4
500 sq ft	12	9	8	6	6	5
600 sq ft	14	11	9	8	7	6
800 sq ft	18	15	12	10	9	7
1,000 sq ft	23	18	15	12	11	9
1,200 sq ft	27	22	18	15	13	11
1,500 sq ft	34	27	23	18	16	13
1,800 sq ft	41	33	27	22	19	16
2,000 sq ft	45	36	30	24	21	17
2,500 sq ft	57	45	38	30	26	22
3,000 sq ft	68	54	45	36	31	26

Framing at 16 inches on center, so 90 percent of the gross area is cavity. Package coverage is printed on the bag or the roll wrapper and varies by R value, so read it rather than assuming.

Cavity area after framing, 16 inch against 24 inch centers

Gross area	Cavity at 16 in oc	Cavity at 24 in oc	Rolls at 16 in	Rolls at 24 in
100 sq ft	90	93	2	2
200 sq ft	180	186	3	3
300 sq ft	270	279	4	4
400 sq ft	360	372	5	5

Gross area	Cavity at 16 in oc	Cavity at 24 in oc	Rolls at 16 in	Rolls at 24 in
500 sq ft	450	465	6	6
600 sq ft	540	558	7	7
800 sq ft	720	744	9	9
1,000 sq ft	900	930	11	11
1,200 sq ft	1,080	1,116	13	13
1,500 sq ft	1,350	1,395	16	16
1,800 sq ft	1,620	1,674	19	20
2,000 sq ft	1,800	1,860	21	22
2,500 sq ft	2,250	2,325	26	27
3,000 sq ft	2,700	2,790	31	32

Cavity areas in square feet. Roll counts at 88 square feet a roll, which is a common kraft faced R-13 or R-15 batt for a 2 x 4 wall. Advanced framing at 24 inches on center leaves about three percent more cavity to fill.

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.