

## Another Calculation from John Quillin, Gay Men's Chorus of Charlotte

I did three which compares the capacity of a reasonable sized room of 36 x 36, or 1,296 square feet:

- My model, no conductor nor piano (capacity is 49 people, [as opposed to the 36 says you can fit](#))
- My model, with conductor and piano (capacity 35 singers + 1 conductor + 1 accompanist, [still 1 more](#))
- How the <https://www.banquettablespro.com/social-distancing-room-space-calculator> works (they place one person in the center of a 36 sq ft bubble)

Note there are no walkways, and the pianist is only 6 feet away from the closest singer, and the director is only about 9 feet away (assuming a podium of 3' square).

Just for comparison, you would probably have been able to easily fit 125 singers in a 36 x 36 room, plus conductor, plus piano, assuming 2' for each chair and 3' between each row, which is pretty generous, and even an aisle down the middle.

If the room weren't square, I'd place the conductor at the narrow end and gain a bit of efficiency that way.

Here's another way of calculating the number of singers (assuming a 6-foot social distancing measurement):

Max # columns of chairs:	$(\text{Room\_Width}/6) + 1$
Max # rows of chairs:	$((\text{Room\_Depth} - \text{Space\_for\_Conductor\_and\_Piano})/6) + 1$
Max singer capacity:	$\text{Max\_Columns} * \text{Max\_Rows}$

For all calculations, drop any fractional remainders.

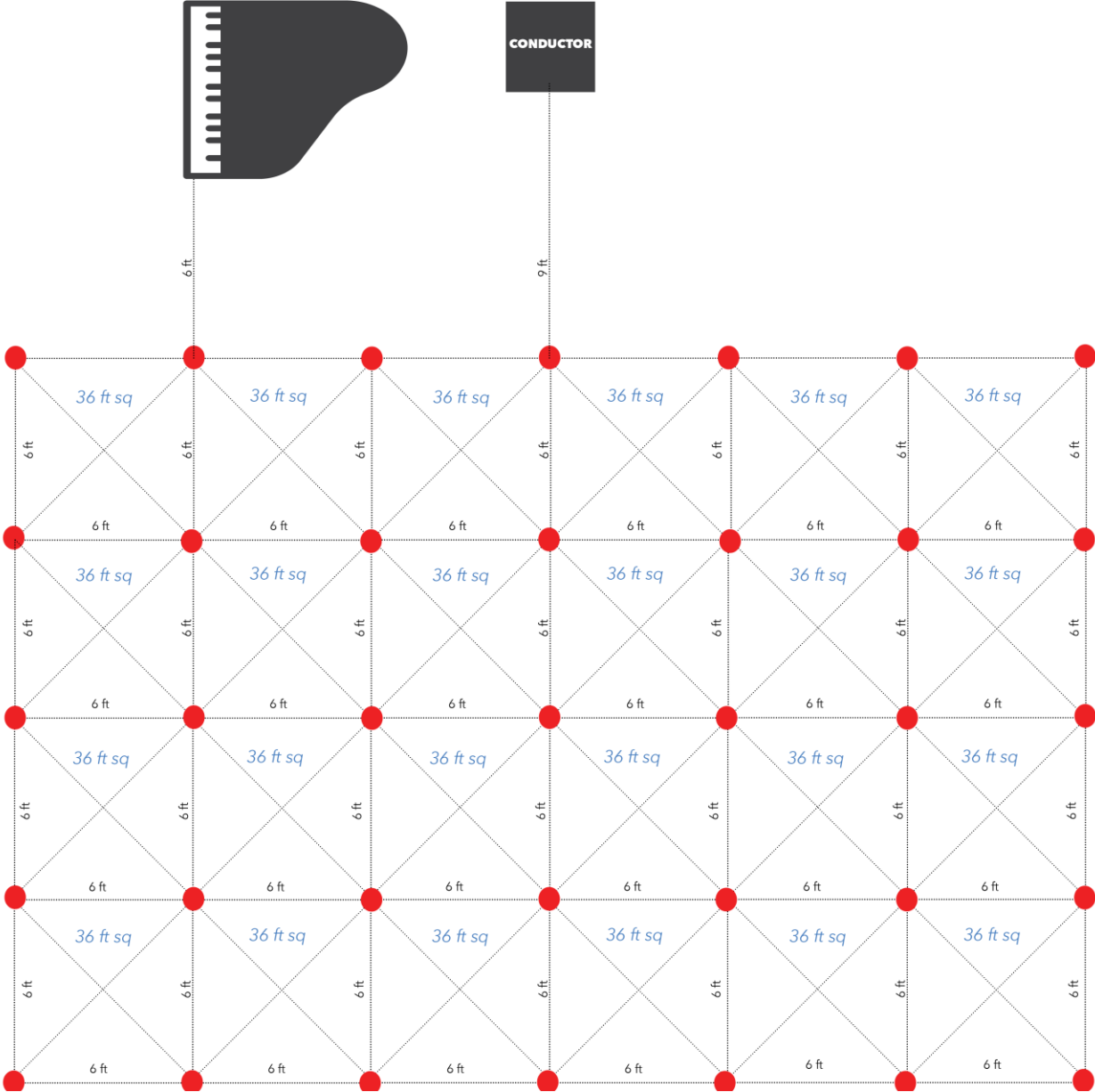
So, for our 36 x 36 room, allowing 9' for the conductor and 6' for the pianist, meaning you lose 12' or 2 rows:

Max columns:	$36/6 + 1 = 7$
Max rows:	$(36 - 12)/6 + 1 = 5$
Max capacity:	$7 * 5 = 35$

If the room were 30 x 42 (same square footage) with the same allowances for conductor and pianist:

Max columns:	$30/6 + 1 = 6$
Max rows:	$(42 - 12)/6 + 1 = 6$
Max capacity:	$6 * 6 = 36$

# With Conductor and Piano



# No Conductor or Piano

