

Speech Privacy Calculator

Instruction:

1. Turn **ON**
2. Using measure conversion table specify parameters:
 - Ceiling Height,
 - Ceiling Tile Quality,
 - Partition Height,
3. Mouse / Left button – changing speaker position
4. Mouse / Right button – directing speaker voice emission

Legend:

1. Ceiling Height in */Feet/*
2. Ceiling Tile Quality */Average NCR/* – *Noise Reduction Coefficient*, the 0-1 scale describing the absorptive qualities of a ceiling tile.
3. Partition Height in */Inches/*
4. Color reading in */%/* defines effectiveness of sound masking on surrounding cubicles

Measure conversion table

Ceiling Height		Partition Height	
<i>/feet/</i>	<i>/meters/</i>	<i>/inches/</i>	<i>/cm/</i>
8,0	2,44	48	122
8,5	2,59	54	137
9,0	2,74	57	145
10,0	3,05	63	160
11,0	3,35	68	173
12,0	3,66	80	203
13,0	3,96	85	216

Example 1:

NCR = 0,5 Means that 50% of the sound that hits a tile is absorbed or reduced, and 50% is reflected back into the space. Representing a fairly low end quality tile, and therefore lower in cost. This is a typical, frequently used *mineral fiber* ceiling.

Example 2:

NCR = 0,9 Means that 90% of the sound is absorbed or reduced by the tile and only 10% is reflected back into the space. Representing a more expensive, fairly high end tile, typically *fiberglass* ceiling.

Practical advice for a Call Centre there lots of conversations going on.

- More expensive ceiling tiles with higher value of NCR > 0,8, **OR**
- Lower cost ceiling tiles with lower value of NCR > 0.5 plus **OASIS Qt Sound Masking System**

Speech Privacy Calculator enables to show the impact of different quality of ceiling tiles and helps to choose economically reasonable decision.