

STEP 2: Determine the Number of Control 19 Subwoofers

STEP 2A: Look up the Ratio of Subwoofers to Add:

SUBWOOFER RATIO CHART									
Note: Assumes the use of Soundzone or other Subwoofer Crossover									
	Ratio Control 19s to Control 24C Micro or 24CT Micro			Ratio Control 19s to Control 24C or 24CT (non-Micro)			Ratio Control 19s to Control 26C or 26CT (non-Micro)		
	Light Ambient Bass	Acceptable in Most Applications	Superior Bass Capability	Light Ambient Bass	Acceptable in Most Applications	Superior Bass Capability	Light Ambient Bass	Acceptable in Most Applications	Superior Bass Capability
Low Impedance Speaker (Control 24C or 26C)	1 : 10 ratio	1 : 6 ratio	1 : 3 ratio	1 : 8 ratio	1 : 4 ratio	1 : 2 ratio	1 : 4 ratio	1 : 2 ratio	1 : 1 ratio
70V "T" speaker tapped high (top 2 taps)	1 : 10 ratio	1 : 6 ratio	1 : 3 ratio	1 : 8 ratio	1 : 4 ratio	1 : 2 ratio	1 : 4 ratio	1 : 2 ratio	1 : 1 ratio
70V "T" speaker tapped low (bottom 2 taps), with subwoofer tapped high	1 : 12 ratio	1 : 8 ratio	1 : 6 ratio	1 : 10 ratio	1 : 6 ratio	1 : 4 ratio	1 : 6 ratio	1 : 3 ratio	1 : 2 ratio

STEP 2B: ADJUSTMENT FACTOR FOR PLACEMENT NEAR WALLS:

If all (or almost all) of the subwoofers will be located within 4 feet (1.2 m) of side walls, you can reduce the number of subwoofers by as much as 30% of the quantity calculated above (but not to go below a 1 : 12 ratio).

STEP 2C: ADJUSTMENT FACTOR FOR REVERBERANT ROOMS

If the room is fairly reverberant, you may be able to reduce the number of subwoofers by another 20% (but not to go below a 1 : 12 ratio).

CALCULATIONS

Quantity of Ceiling Speakers (from Step 1)

START CALCULATIONS HERE

Ratio of Subwoofers (from **Subwoofer Ratio Chart**, left)

Quantity of C19 Subwoofers

Results from 2A

Adjustment of Qty: (from Step 2B)

Revised Quantity of C19CS or C19CST Subwoofers

Results from 2B

Adjustment of Qty: (from Step 2C)

Final Quantity of C19CS or C19CST Subwoofers

FINAL RESULT