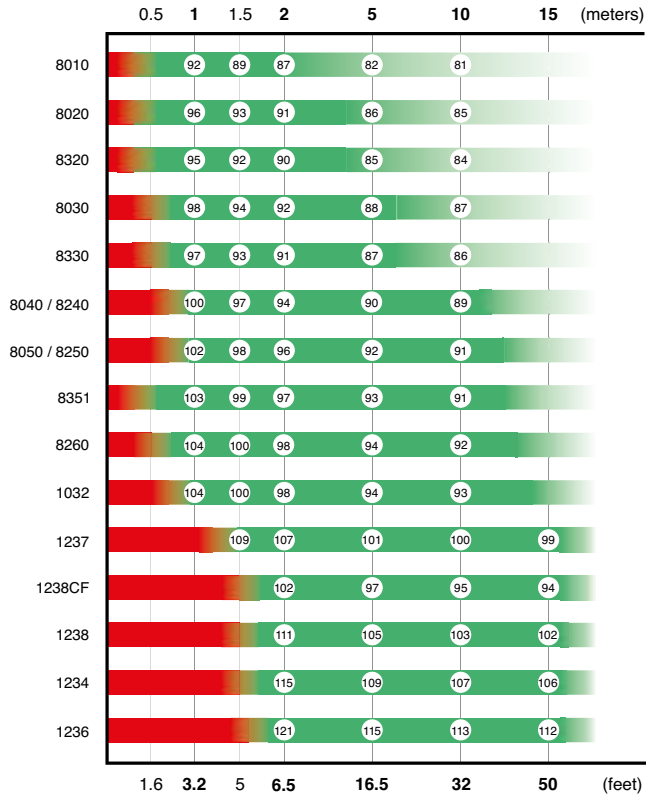


1

Loudspeakers Listening Distance Recommendations



Not recommended
When too close to the monitor, the drivers - tweeter or midrange/tweeter - are not summing together properly at the crossover point, which affects the perceived frequency response balance.

Recommended
The long-term sound pressure levels (SPL) displayed take into consideration an average room reverberation time (RT60) of 0.3 sec.
Note: at extremely long distances the SPL may become too low for the application.

2

Product performance

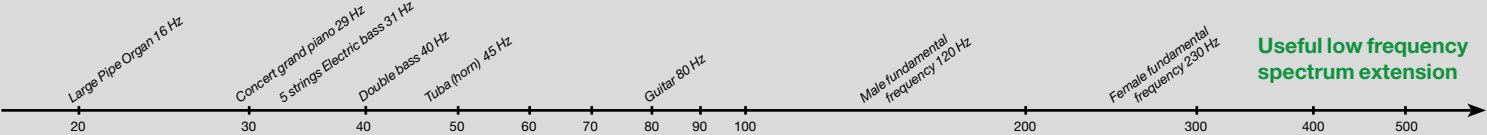
Monitors	-6 dB LF Extension	Maximum SPL at 1 m *	Room volume up to	Subwoofers for 2 channels	Subwoofers for 5 channels
8010	67 Hz	96 dB	55 m³	7040	7040
8020 / 8320	59 / 55 Hz	95 / 100 dB	65 m³	7050 / 7350	7050 / 7350
8030 / 8330	50 / 45 Hz	100 / 104 dB	75 m³	7050 / 7350	7060 / 7350
8040 / 8240	41 Hz	105 dB	85 m³	7060 / 7260	7070 / 7270
8050 / 8250 / 8351	32 Hz	110 dB	95 m³	7070 / 7270	7071 / 7271
1032	36 Hz	113 dB	100 m³	7071	7071
8260	23 Hz	113 dB	115 m³	7271	7271
1037 / 1237	32 Hz	116 / 118 dB	125 m³	7071 / 7271	7071 / 7271
1038CF / 1238CF	50 Hz	118 dB	125 m³	7071 / 7271	7071 / 7271
1038 / 1238	30 Hz	120 / 121 dB	170 m³	7071 / 7271	7071 / 7271
1034 / 1234	29 Hz	123 dB	200 m³	7073	2 x 7073
1036 / 1236	17 Hz	131 dB	400 m³	2 x 7073	3 x 7073

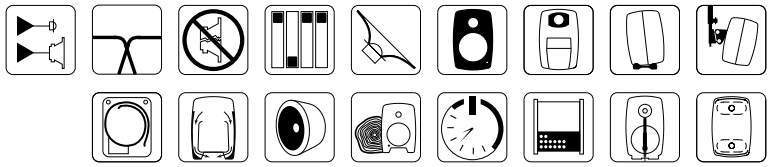
*) Maximum short term sine wave acoustic output on axis in half space, averaged from 100 Hz to 3 kHz at 1 m distance.

3

Subwoofers	Frequency range +/-3 dB Main / LFE channel	SPL short term RMS at 1 m distance
7040	33 - 85 Hz / N/A	100 dB
7050	25 - 85 / 25 - 120 Hz	100 dB
7060	19 - 85 / 19 - 120 Hz	108 dB
7070	19 - 85 / 19 - 120 Hz	112 dB
7071	19 - 85 / 19 - 120 Hz	118 dB
7073	19 - 85 / 19 - 120 Hz	124 dB
7350	25 - 85 / 25 - 150 Hz	104 dB
7260	19 - 100* / 19 - 120 Hz	108 dB
7270	19 - 100* / 19 - 120 Hz	112 dB
7271	19 - 100* / 19 - 120 Hz	118 dB

*Variable subwoofer/main monitor crossover frequency, default 85 Hz.

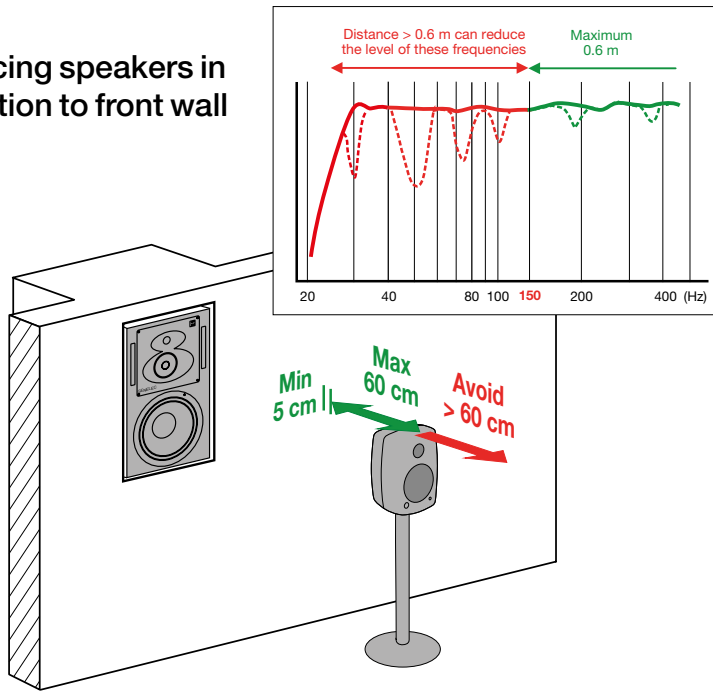




4

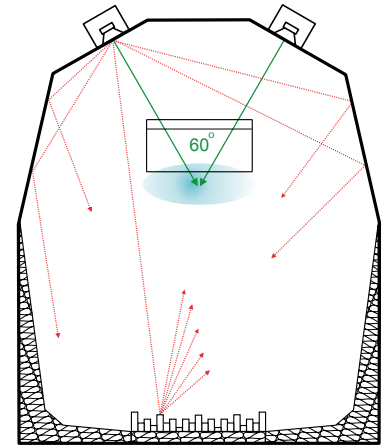
Placing speakers in relation to front wall

Distance from wall	First cancellation frequency
0.10 m	858 Hz
0.20 m	429 Hz
0.40 m	214 Hz
0.60 m	143 Hz
0.80 m	107 Hz
1.00 m	86 Hz
1.20 m	71 Hz
1.40 m	61 Hz
1.60 m	54 Hz
1.80 m	48 Hz
2.00 m	43 Hz
2.20 m	39 Hz
2.40 m	36 Hz
2.60 m	33 Hz
2.80 m	31 Hz
3.00 m	29 Hz



6

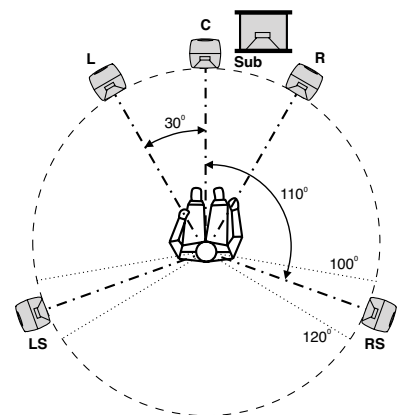
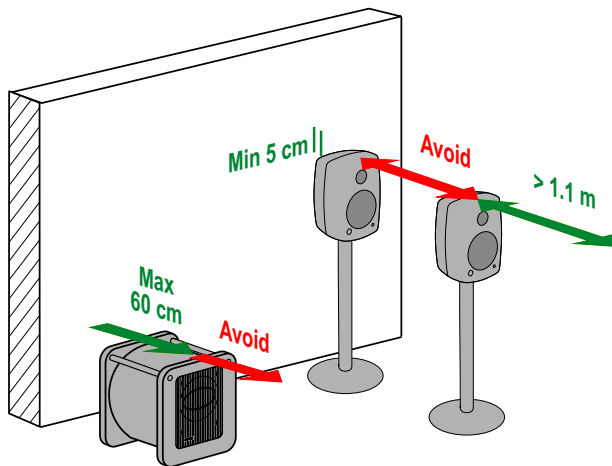
Main speaker placement



Stereo setup

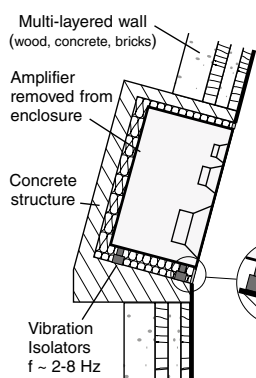
5

Placing free standing speakers with subwoofers

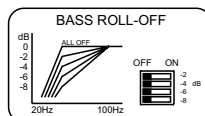
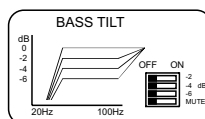
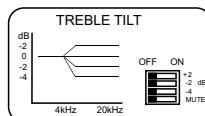


5.1 surround setup
ITU-R BS.775-2

7



8000 series needs ventilation and free air flow around the speaker cabinet and sufficient openings on top and bottom for proper LF response.



Flush mounting into a wall

- Flush mounting removes edge diffraction
- Eliminates reflection from the wall behind the speaker
- Increases LF speaker efficiency
- Provides higher system SPL and lower distortion

