The VIRO-Cxx1 series can be combined with ARCHI8X, ARCHI210, or ARCHI10 to create optimized set solutions for different applications. The recommended speaker presets, volume offsets, and delays ensure the best acoustic performance for each combination.

It is recommended to install the VIRO-Cxx1 series according to the installation guidelines provided in the user manual and to use the corresponding Speaker Preset File (SPF) for the selected set solution which are available on latest version of AUDAC Touch™. This ensures the system is configured correctly for the intended acoustic performance.

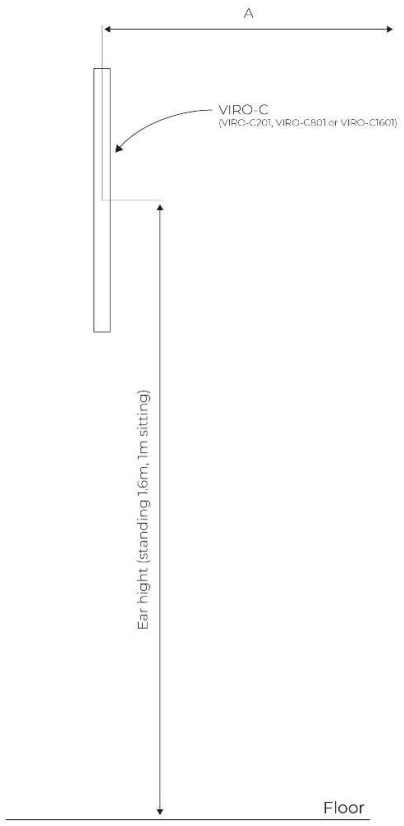
No subwoofer / one subwoofer per Viro-Cxx1

For configurations with **no subwoofer or one subwoofer per VIRO-Cxx1**, the **−6 dB off-axis response around 8 kHz** can be used as the primary reference for determining the maximum spacing between the two speakers.

The VIRO-Cxx1 speakers maintain **wide dispersion well into the high-frequency range**. Therefore, the speakers can generally be spaced relatively far apart, provided that the required listening distance and coverage of the sound front can still be achieved.

In these configurations, **relatively large spacing between the speakers is acceptable**, provided that the above dispersion criterion is respected and adequate coverage is maintained across the listening area.

Model Name	Distance (A)
VIRO-C201	8 meters
VIRO-C801	12 meters
VIRO-C1601	14 meters



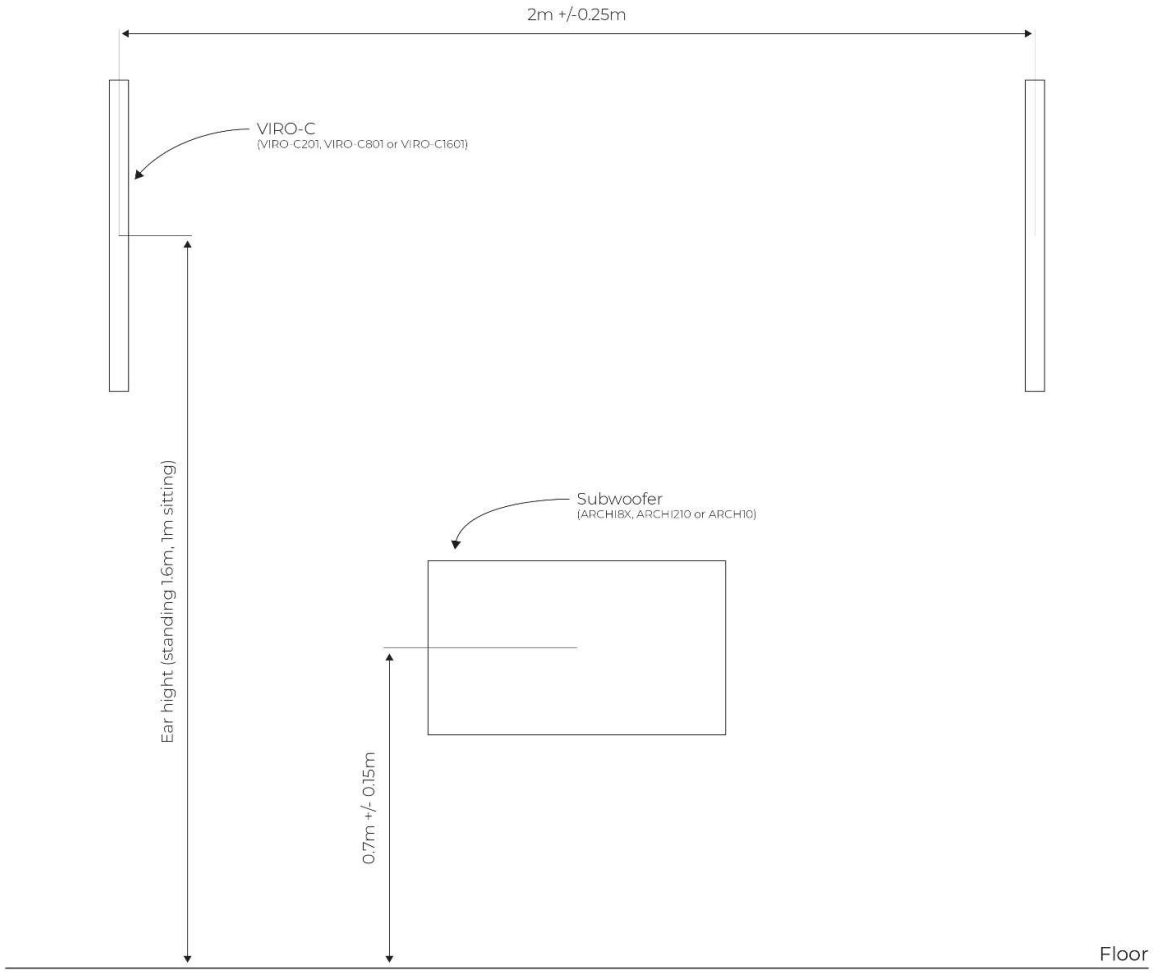
One subwoofer positioned centrally between two Viro-Cxx1

The **VIRO-Cxx1 speakers are high-pass filtered at 150 Hz**, while their natural acoustic response begins to roll off from approximately **240 Hz**. Since speech contains low-frequency energy and relies strongly on accurate source localisation, careful integration between the satellites and subwoofer is important to maintain a coherent and natural perceived sound source.

For a **150 Hz crossover**, the relative placement of the subwoofer and satellites should therefore be considered. As a general guideline, the distance between the acoustic centre of the subwoofer and the acoustic centre of each satellite should **not exceed approximately one wavelength at the crossover frequency**.

The subwoofer should also preferably **not be placed close to corners where two walls meet**. Excessive boundary reinforcement, particularly in the **80–150 Hz region**, can result in an unnatural, overly thick, or bloated character in speech reproduction.

If wall mounting is not possible, **ARCHI210 and ARCHI10 can also be placed on the floor**. However, floor placement may introduce additional boundary reflections and result in variations in the **low-frequency response of the overall set solution**.



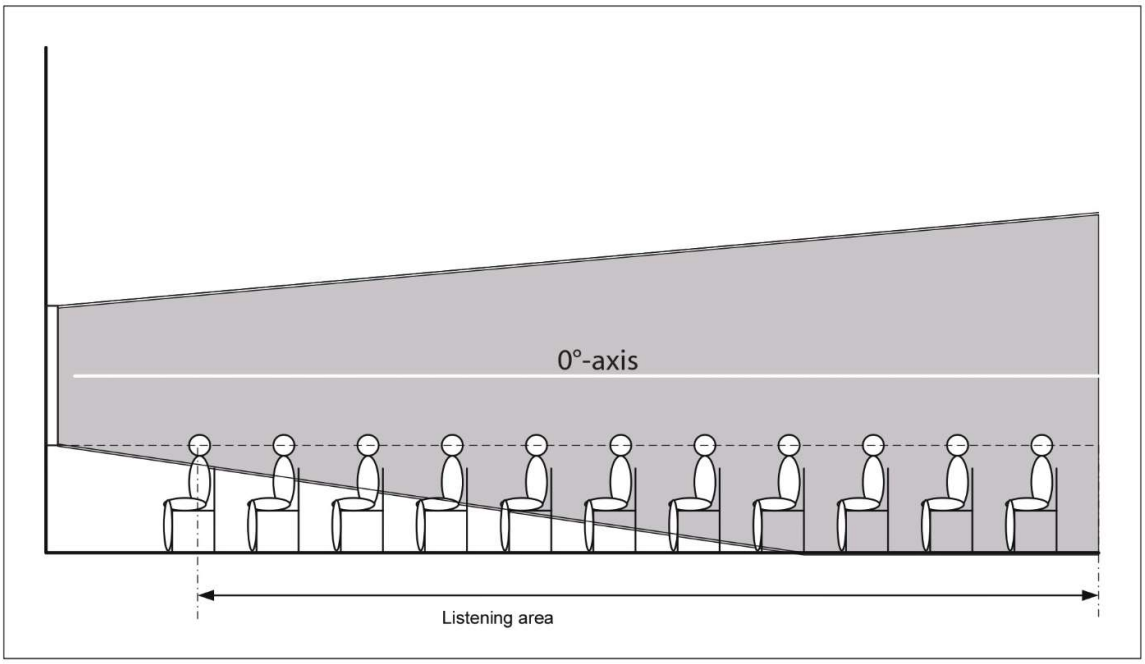
Listening distance and conditions

The recommended listening distances are conservative values based on the balance between direct and reflected sound. Actual coverage may vary depending on the installation environment.

Higher mounting heights and acoustically absorptive environments can improve direct sound coverage and extend the effective listening distance. Under optimized installation conditions, the VIRO-C Series may provide reliable coverage beyond the recommended distances..

The listening distances below are calculated for on-wall mounting to achieve 90 dB SPL at 1 kHz at program power.

Model Name	Calculated Listening Distance
VIRO-C201	2 meters
VIRO-C801	7 meters
VIRO-C1601	14 meters



Available speaker preset files and configurations

The table below shows the list of available speaker preset files with required volume offset and delay for the best desired acoustical performance out of the set solution.

The input signal should be processed using an external crossover, a DSP-controlled amplifier. WaveDynamics preset are available in the latest version of AUDAC Touch to achieve optimal performance.

Speaker Preset File (SPF)	Volume offset on VIRO-Cxx1 (dB)	Delay (ms)	Definition
ARCHI 8X	0dB	No	ARCHI8X SPF file can be used with any VIRO-C series models without any applied volume offset.
Audac ARCHI210 Sub Single 4Ω for VIRO-C	-14dB	No	ARCHI210 can be used with VIRO-C series with a dedicated SPF file, for this setup a volume offset of -14dB should be set.
Audac ARCHI10 Sub Single for VIRO-C	-14dB	No	ARCHI10 can be used with VIRO-C series with a dedicated SPF file, for this setup a volume offset of -14dB should be set.
Audac ARCHI10 Sub Bridge for VIRO-C	-14dB	No	ARCHI10 can be used with VIRO-C series with a dedicated SPF file, for this setup a volume offset of -14dB should be set.
Audac VIRO-C 201 8Ω	-	No	For all mentioned configurations, this SPf file can be used for on-wall mounting.
Audac VIRO-C 801 8Ω	-	No	For all mentioned configurations, this SPf file can be used for on-wall mounting.
Audac VIRO-C 1601 16Ω	-	No	For all mentioned configurations, this SPf file can be used for on-wall mounting.

Contact support@pvs.globalfor more information