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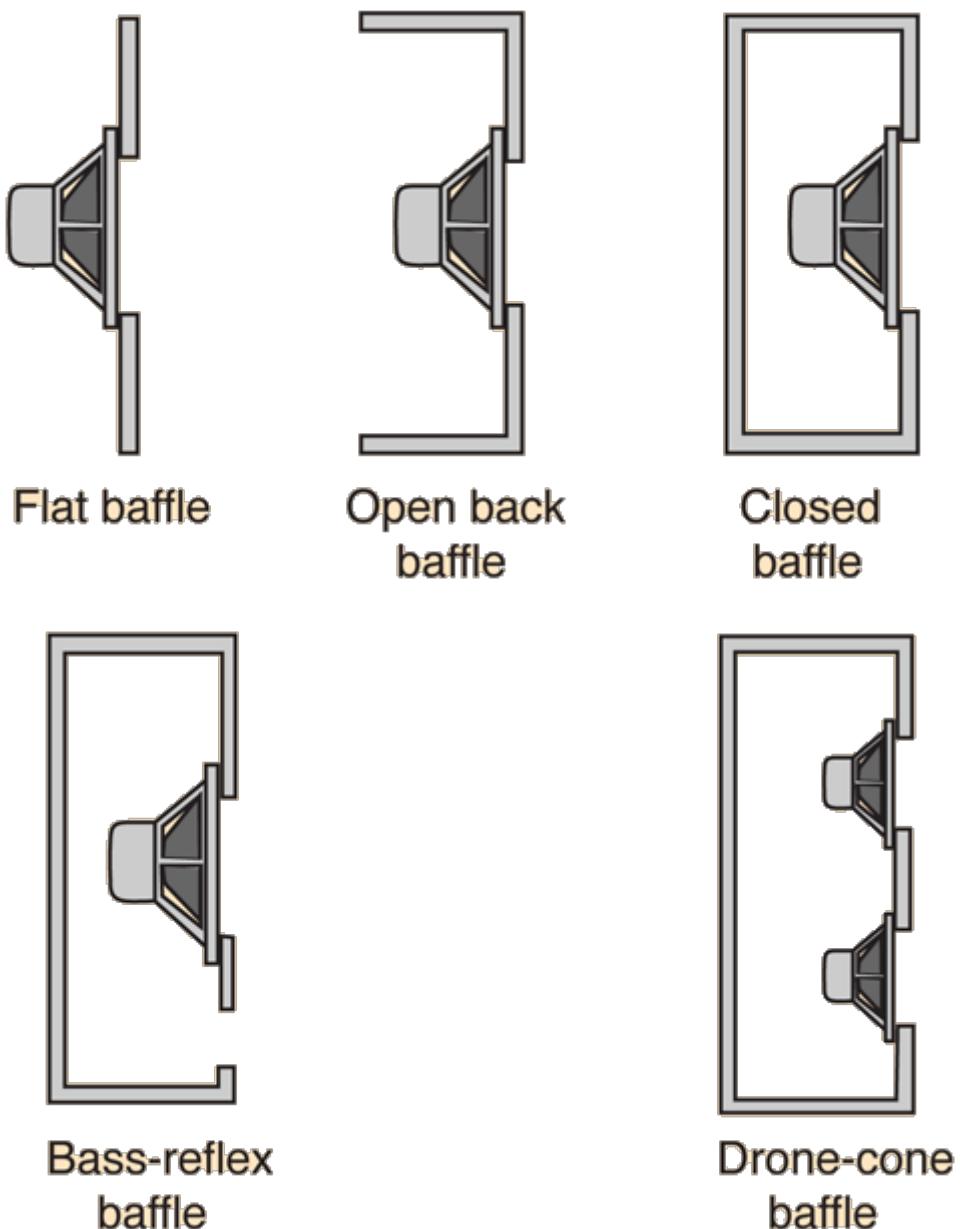
.....	1
.....	1
.....	1
.....	1
.....	5
Enclosure	6
Opened Baffle	7
Closed Enclosure	7
.....	7
Reference	7
.....	9
.....	9
.....	9
.....	9

(Speaker Enclosure)

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Enclosure

A **Speaker Enclosure** is a structure in the form of a cover or case that houses and protects a **speaker** unit, serving as a crucial component of a **speaker** system. The primary purposes of a **speaker** enclosure are as follows:

- Sound Enhancement:** The **speaker** enclosure seals the rear of the **speaker** unit and controls the soundwaves generated by the **speaker**. This prevents soundwaves from being emitted in various directions, optimizing the **speaker**'s sound characteristics.
- Protection:** The enclosure shields the **speaker** unit from physical impacts, dust, moisture, and other external factors. This helps enhance the **speaker**'s durability and lifespan.
- Pressure Control:** The volume of air inside the **speaker** enclosure and the movement of the **speaker** unit affect sound output. The enclosure assists in controlling sound pressure and increasing low-frequency sound pressure.

The choice of a speaker enclosure depends on various factors such as the characteristics of the speaker unit, acoustic objectives, and space constraints. Selecting the right enclosure is a critical factor in determining the sound quality and performance of a speaker system.

Opened Baffle

Open-back,

가 ,
1)

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가 ,
가 ,

Closed Enclosure

Closed-back,

, 가 가
가

가 ,
가 ,
가 가 ,
(Excursion)
가
2)

<https://heissmann-acoustics.de/en/kantendiffraktion-sekundaerschallquellen-treiberanordnun/>

Reference

- <https://sound-au.com/articles/enclosures.htm>
- <http://hyperphysics.phy-astr.gsu.edu/hbase/Audio/spk.html>
- https://en.wikipedia.org/wiki/Loudspeaker_enclosure

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