
Subject: How does an open door affect sound?
Posted by [FloydV](#) on Sun, 21 Oct 2012 05:01:04 GMT
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I have a theater room that is 14 x 20'. It is a perfect rectangle.

My question is this: there is one door that opens into a hallway.
It is centered on the long wall facing in to a hallway. What effects should I see, if any, if I open the door or close it?

My wife prefers it open so she can hear the door bell, etc. I prefer it closed. There is a vent directly over the door that passes air out of the room and back to the AC. It is simply two grates, one on each side of the wall over the door.

Thanks for your help.

Floyd

Subject: Re: How does an open door affect sound?
Posted by [Wayne Parham](#) on Sun, 21 Oct 2012 15:05:32 GMT
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Opening the door changes the modal distributuon in the room.

Subject: Re: How does an open door affect sound?
Posted by [audiot3ch](#) on Mon, 22 Oct 2012 18:13:34 GMT
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Opening the door allows for the sound to be projected even further. If you crack it a little, I think you can keep your wife happy. Some sound will travel outside of the room, but you'll also be able to hear the doorbell better.

Subject: Re: How does an open door affect sound?
Posted by [gofar99](#) on Wed, 24 Oct 2012 03:48:14 GMT
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Hi, Install a wireless doorbell and both of you will be happy.

Subject: Re: How does an open door affect sound?
Posted by [FloydV](#) on Fri, 26 Oct 2012 05:04:29 GMT
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Thanks guys. I'm not sure what modal distribution is, but I have decided to put a light in the room that triggers when the bell rings.

Floyd

BTW: I'm still getting no email notification of responses that I get to my posts.

Subject: Re: How does an open door affect sound?
Posted by [The Noise](#) on Fri, 26 Oct 2012 12:26:12 GMT
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Just remember that the more space that there is your sound system to has operate in, the lower the quality of that sound is going to be. Depending on the system itself of course. Opening the door means you are letting in more space for that sound system, so it will effect the quality.

Subject: Re: How does an open door affect sound?
Posted by [Sunflower](#) on Fri, 26 Oct 2012 13:11:45 GMT
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I don't know a lot about the technical side of this topic but I've seen the reduced sound, in both volume and quality, in action. My father is a bit deaf and he has to watch TV in a room with all the doors closed. That's a nuisance when the weather is good and you want some fresh air.
