Subject: Concrete Vs other types of wall
Posted by Jadex on Mon, 29 May 2017 17:45:13 GMT
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Hey guys. I just want to know if concrete walls make your system sound different than other types of walls or not. Does anyone know?

Subject: Re: Concrete Vs other types of wall
Posted by Wayne Parham on Tue, 30 May 2017 14:14:26 GMT
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Rooms with concrete walls suffer from very strong room modes because the walls are rigid and there is almost no damping. They can also be very reflective at middle and high frequencies. For that reason, when people install sound systems in basements where all sides are concrete, it is best to install acoustic wedges or other absorbent treatments and panel dampers on the walls to damp room modes. Multiple subs are always a good idea too.

Subject: Re: Concrete Vs other types of wall
Posted by Kingfish on Tue, 13 Mar 2018 17:49:03 GMT
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My opinion is that concrete walls are no good to set up a system within. Concrete and music just don't mix. At least not the kind of music I listen to.

Subject: Re: Concrete Vs other types of wall
Posted by Leot55 on Sun, 18 Mar 2018 03:36:03 GMT
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Wayne Parham wrote on Tue, 30 May 2017 09:14
. . .when people install sound systems in basements where all sides are concrete, it is best to install acoustic wedges or other absorbent treatments and panel dampers on the walls to damp room modes. Multiple subs are always a good idea too.

Is that meant to contain echoes, to keep the sound from getting distorted, or to keep the sound from leaking upstairs? Do you think it's worse when the flooring is concrete too? I have a system in the basement and it's hard to hear it. But then again, it isn't an expensive setup. Just old gear.

Subject: Re: Concrete Vs other types of wall

Posted by Wayne Parham on Mon, 19 Mar 2018 14:29:51 GMT
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Concrete surfaces on all six sides (4 walls, floor and ceiling) are problematic because there is so little damping. Reflections are strong and room modes are terrible. Even if you tame the high-frequency reflections with absorbent materials, room modes are still strong. Panel absorbers on all walls are generally the only way to cure them.

Subject: Re: Concrete Vs other types of wall
Posted by shadowplay on Sun, 25 Mar 2018 19:37:47 GMT
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Would panel absorbers fully cure the dampening or would there still be at least some dampening issues? How much would it help if the ceiling wasn't concrete as well?

Subject: Re: Concrete Vs other types of wall
Posted by rarerat on Thu, 05 Apr 2018 08:41:37 GMT
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My apartment building is built with concrete breeze blocks and I noticed a deterioration in the sound my system produced after moving from my previous house (wood framed, brick built)

The concrete wasn't on all 6 surfaces, of course, there are windows! But there was still a difference in the quality of sound.

I bought some foam acoustic panels with which I lined the larger areas of concrete (floors, ceiling, and inner walls) and that helped.

Subject: Re: Concrete Vs other types of wall
Posted by Wren on Fri, 06 Apr 2018 17:13:50 GMT
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I've been having similar problems, rarerat. I tried to fix it the way you did, but I think I must have gotten some low-quality panels. My dad gave them to me, so I didn't really research them as well as I should have. What kind of foam panels did you use?

Subject: Re: Concrete Vs other types of wall
Posted by johnnycamp5 on Fri, 06 Apr 2018 21:24:28 GMT
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A lot of "foam" absorbers are useless.
I have had much better luck with rigid fiberglass.

Just a couple of 2' x 4' absorbers made of 4" Owens 703-
http://metrosupplycollc.com/image/115872015_scaled_299x223.png
can be effective.

Just cover them with thin, cheap fabric.

Subject: Re: Concrete Vs other types of wall
Posted by rarerat on Sat, 14 Apr 2018 08:48:53 GMT
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I bought some foam acoustic tiles for soundproofing from Amazon. They come in packs of 12 and measure 2 X 12 X 12 inches. They got a lot of good reviews which is what decided me as I have no idea what "Overall Noise Reduction Coefficient (NRC): 0.67" means - but that is what they offer.

I'm pleased with the results so far.

Subject: Re: Concrete Vs other types of wall
Posted by Soundcheck12 on Mon, 30 Apr 2018 15:21:23 GMT
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Concrete walls are horrible based on reasons others have already stated. If possible, the best thing to do is to put up some framing and sheetrock so it's more of a conventional room. Some of the sound absorption stuff is only second best but given the choice of sound bouncing all over the concrete, it's better than nothing.
