How to get RID of your neighbour...

The Fundamentals of Sound & Noise

Presented by SoundProofDrywall.ca



Let's Learn, Have Fun & Get Quiet

- My hope is to be informative and interesting to you.
- My purpose is to help you be a better, more informed consumer when you need a sound blocking solution.

"Why talk about NOISE?" you might ask.

Because from the CEO who wants to hold a confidential meeting, to the home owner who wants privacy in the bedroom, you are <u>all</u> constantly affected by <u>too much sound.</u>

It's a difficult problem to fix!

So, WHAT'S happening?

In today's environment, with Green Initiatives, LEED and sustainability, more is being done with less, including in building design, where you are

living in a more will where walls are thinner and...

eventually, your privacy is compromised!

Not to mention...

The technological advances of music players and home entertainment systems, you can now "live the experience" in the privacy of your own home.



Combined, these changes cause serious conflicts!

In a culture where you don't even want to see your neighbour, much less hear them, you suddenly find yourself...LIVING with them!

VERY interesting, but so what?

It's a big issue in that noise is the #2 litigation issue in residential and multifamily construction

- Mold and moisture is #1
- Foundation settling is #3

Why are there so many "Noise" issues?

- Due to no design #1 [no thought]
- Due to poor design #2 [bad thought]
- Due to failed design #3 [poor execution]

Payout settlements average \$US32K per unit!!

And this affects me HOW exactly?

- Do you live in a noisy condo today?
- •Will you buy a noisy house one day?
- Are your bedroom walls paper-thin?
- •Can you hear the others?
- Or can they hear you?



STC's vs. dB's you say! ...what?

The professional call them STC's [Sound Transmission Class]

But the rest of the world calls them decibels [dB's]

~~ But one thing everyone agrees on ~~

"The more you can't hear them, the better off we will all be!"

Let's get a sense of dB LEVELS

Noise Level [Subjective]	Typical Sounds	dB	Reduction needed to produce quiet
			Typical wall gives
			only about 30 dB
 Very quiet	Breathing	10	of <u>sound</u> BLOCKING
, quice	Whispering	20	<u>5100km70</u>
Pleasantly quiet	Quiet library	30	
	Quiet home	40	0
	Normal Conversation at 3'-5'		
Normal noise level	General office building interior	50	20
	Active bedrooms/offices ©	50+	20+
Loud noise level	Vacuum cleaner	70	40
	A decent argument		
	Noisy office; typical factory interior		
	Rail car	80	50
	Home theatre, normal operation		
	A nasty argument [®]		
	Diesel locomotive	90	60
	Home theatre, loud sequences		
Hearing loss if sustained	Near a jackhammer	100	70
	Car going around curve squeal		
	Locomotive horn		
	Typical Home theatres		
	Rock concert speakers	110	80
	Near a jet engine	120	90
	THX Home Theatre peaks		
Pain threshold	Cannon explosion	140	110

Sound & Noise: in BASIC terms

Sound and noise consist of:

- Loudness [volume of dB's]
- Frequency [high=alarm system; or low=base]



And can be controlled through:

- Absorbing [use finishes]
- Blocking [use mass and space]

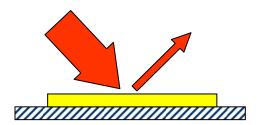
Two main types of NOISE CONTROL

Sound BLOCKING: stopping sound from getting to the other room



There are new ways of improving your results!

Sound ABSORPTION: reducing the "pitch" or reflection inside a room



INTERESTING Sound Facts

Sound is airborne acoustic energy.

Although energy never disappears, by modifying its form you can manage it.

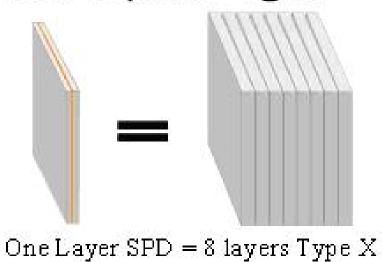
With its visco elastic polymers, engineered sound proofing drywall does just that - by converting acoustic energy into heat.

And you can't hear heat!



That's RIGHT!

One Equals Eight™



But what is the REAL difference?

Actual Change	Feels Like
2 dB	Not noticeable
3 dB	19% quieter: barely noticeable
6 dB	34% quieter: noticeable no impact
10 dB	50% quieter: clear difference; not enough
15-20 dB	75-87% quieter: huge difference

So what 's the PLAN next time?

Next time you have a NOISE-related issue:

- Don't add extra layers of drywall to the wall
- Don't tear down the wall to rebuild it
- Don't moving away [to another problem?]
- Don't kill someone [jail is noisy as well]
- Don't kill yourself [peace at last but enjoyable?... think not]
- And don't ignore the problem [typical answer]

Just simply think Quiet...

Sound Proofing Drywall...

Thank you for your interest.

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