

JdB Sound Acoustics

Church Sound Systems and Acoustics
projects in various stages
2006-2008

- The following slides include the good, the bad and the ugly.
- I will be the first to admit that not all of my projects look great. I leave the Aesthetics up to the church.
- When you ask those churches how do they like the look of the panels I designed them the answers is usually, “they were cheap to build and they work great.”

The panels on the side walls includes the HVAC System
The ceiling panels includes the lighting system and HVAC



Churches with low ceilings are always a challenge. This plan provided excellent results. All 5 ceiling diffusers are different sizes







No Echoes come off the back wall. The back wall is totally diffused and the diffusion cost the church \$0.00. In new churches, good acoustical practices shouldn't cost the church extra. Rather, it is simply changing the way physical features are purchased, planned, built and installed.



Even the Cross is part of the acoustical plan



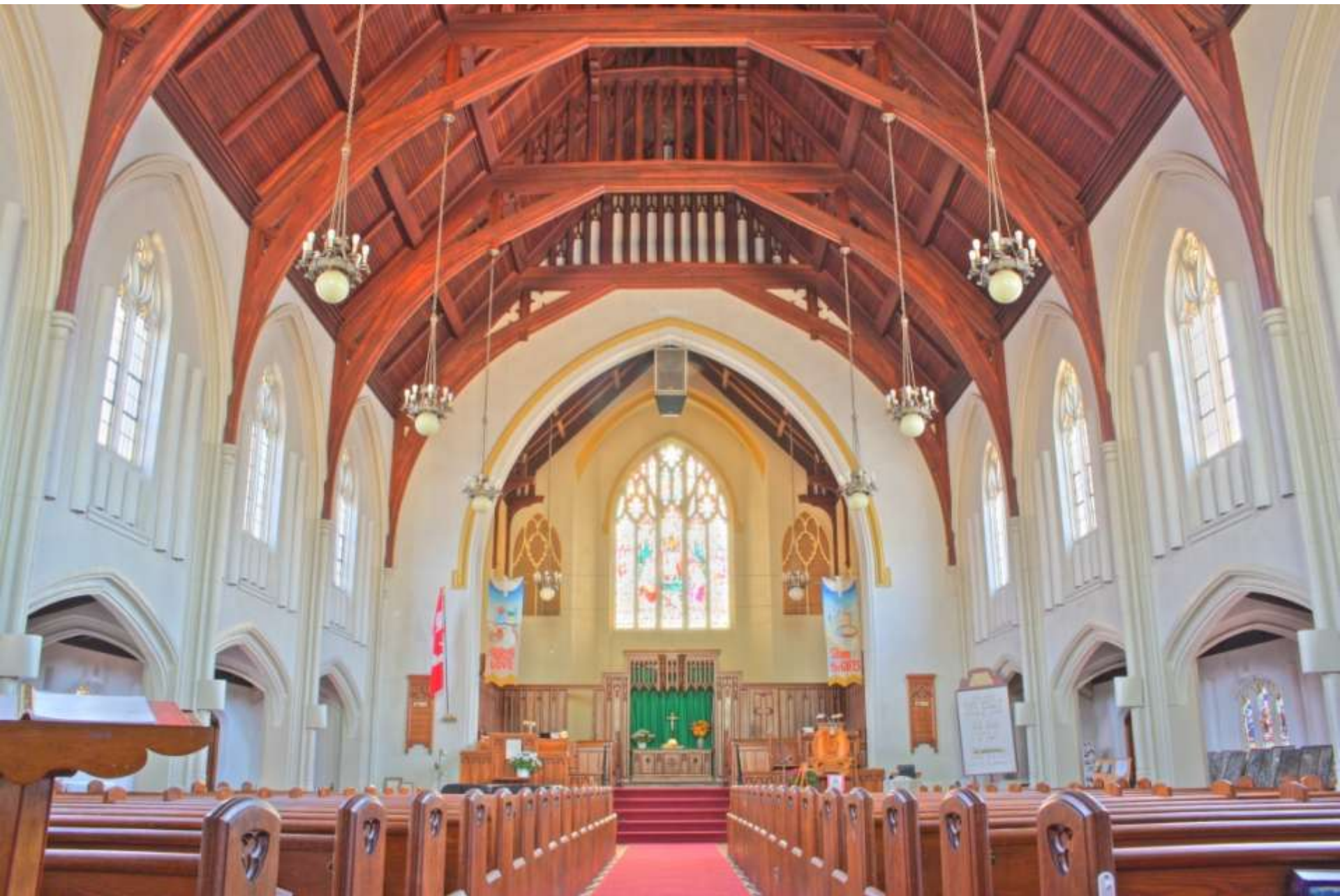


Imagine, laminating wood studs together, milling them and then mounting the heavy items on the walls. My acoustical panels can be made of almost anything.

















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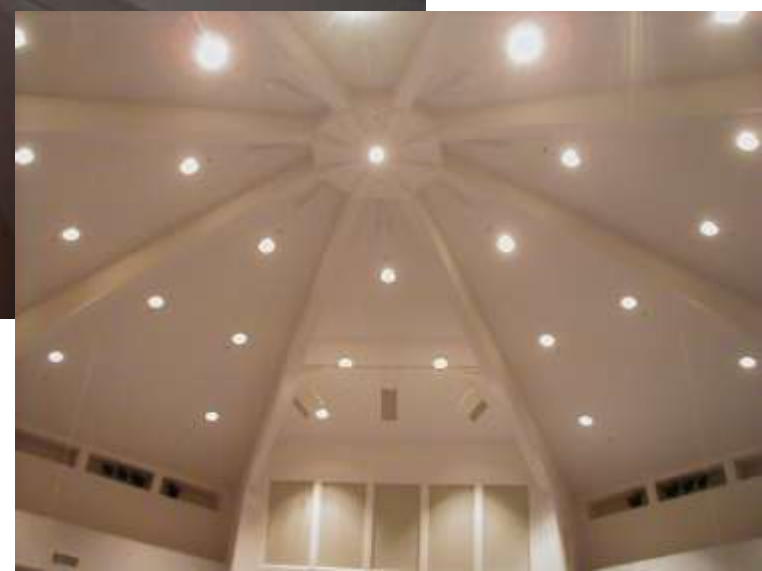


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There are panels that you can see and panels that you cannot see.







Octagon shaped churches are the most difficult room to fix. Acoustical problems are magnified by a factor of 8. If you look carefully by the exit sign, you can see slots on the side of the diffuser. Yes, these panels are tuned and ported. Most Octagon Shaped churches don't give you enough of surface area for an effective fix that is meaningful to worship. Sure, any flat panel can change the sound of the room, but usually your just exchanging one set of problems for another.

These panel are like loudspeakers in reverse. Where are speaker is design to project as much bass sound energy out of the box, these panels are designed to cancel the sound energy that enter the slots and ports. These features add another 6dB of low frequency control and 9dB of mid range control.



- Not everything that you see is what it seems
- All of the churches that have completed my acoustical and sound systems design are performing to the CAPS Standard and the HIS System standard.
- Some of the projects exceed the standards and most often it is the room shape and geometry.
- Sure, I can make a church with a 13 ft ceiling performance as good as a church with a higher ceiling, but, a church with a 30 ft ceiling will have a better worship experience.