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Acoustic Consulting Services

Sound heard in the church involves more than just the sound system components. It is the result of the electro-acoustic sound system interacting with the acoustics of the sanctuary. Over the past several years we have become increasingly involved in the evaluation and correction of acoustic problems, because poor acoustics adversely affects the performance of our audio systems.

We have undertaken considerable informal study of large room acoustics through a variety of professional two and three-day seminars presented by professional consultants and manufacturers, much personal study, and many hours of on-site measurement and testing of churches we have installed audio systems in. As a result we now regularly consult with church building committees, builders and architects concerning room acoustics and sound systems. We employ computer programs that can predict the acoustic results of various design scenarios before the facility is constructed. The most valuable program is named **E.A.S.E.™ 4.0 (Enhanced Acoustic Simulator for Engineers)**. This program allows detailed analysis of the room acoustics for reverberation time and contour, speech intelligibility, sound reflection patterns, and so on. Results and the cost of use depend on the amount of detail input to the program.

The typical consultation will involve guidance on issues such as sanctuary shape, surface finishes, types of wall construction, integrated acoustic materials, acoustic materials that can be added after completion of construction, and details concerning the impact of the acoustics on the sound system and visa versa.

We possess the knowledge, instrumentation and reference materials that enable us to provide you with sufficient information and guidance to develop a new worship facility that will be pleasing to worship in and enjoyable to the layperson, regardless of whether your worship style involves pipe organ and choir, orchestra, brass band, contemporary worship band, or speech only. It's less expensive and more effective to plan for proper acoustics before construction than after. Your building will be there for a very long time; we can ensure that your sanctuary will sound good all through those years.

Consulting Rates: A standard rate of \$75.00 per hour is charged for all time used for site meetings, computer time and report writing for churches and charities. Non-church/charity projects are charged at \$95.00 per hour. Travel time is charged at \$0.40 per km plus \$35.00 per travel hour. Any significant long distance telephone usage is charged extra. GST is added extra.

We are willing to provide general predictions and recommendations if a church does not wish to invest a great deal of funds. We are also able to provide high resolution detail and comprehensive recommendations with the accompanying larger investment on the part of the church.

ORIGINALLY COMPOSED BY DAVID WETTLAUFER
FOR HORIZON AUDIO SERVICES LTD

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