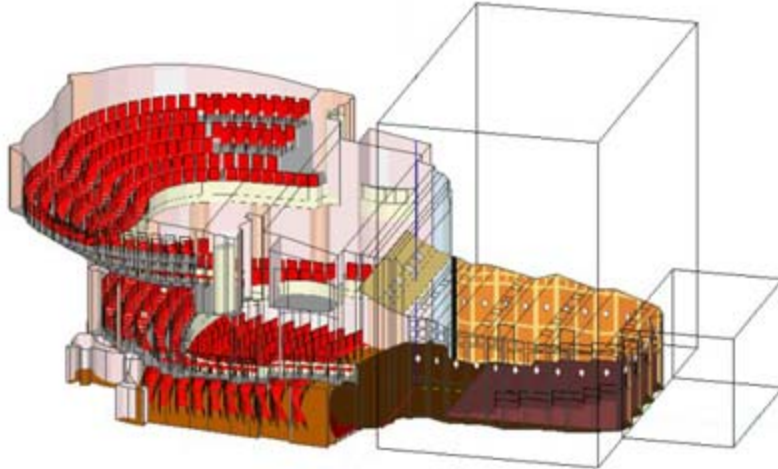


The above figure shows a computer rendering of the suspension system and method of attachment for one of the speakers. Omitted from the drawing is the ceiling that hides everything except the speaker and its yoke. Remember that the things one doesn't see are just as important as the things one does see.



EASE is capable of extreme detail, as exemplified in the above figure. This helps the customer understand the existing problems and the solutions to these problems provided by acoustical engineers. Even though EASE has tremendous power, it is just a tool. A powerful software tool such as EASE in the hands of an experienced acoustic engineer can produce acoustical works of art!

## A Solution Aided by EASE: Identified with Talent

This church had a sound system that was installed without the help of professional sound engineers. After it was installed many members of the congregation complained about not being able to understand what was being said. This was disappointing, especially after spending all that money. In desperation, the Church hired a contractor who came in and made minor aiming adjustments to the speakers: No help. Still another contractor said it just needed to be equalized correctly and everything would be fine. Wrong again. Using one's best sound tools – one's ears – the sound engineers listened to the church's room acoustics and concluded that the room sounded very hot (reverberant). Before designing the new system they carried out %ALCONS predictions (Percent of Articulation Loss of CONSonants – see below) with EASE acoustic software, using both the existing room, and the room after some treatment options were analyzed.

The sound engineers created a plan to install acoustic material in specific, but important, areas of the room at the same time the new sound system was being installed. The following image of %ALCONS graphically shows the results. The only difference in the two responses is the addition of acoustic treatment.