



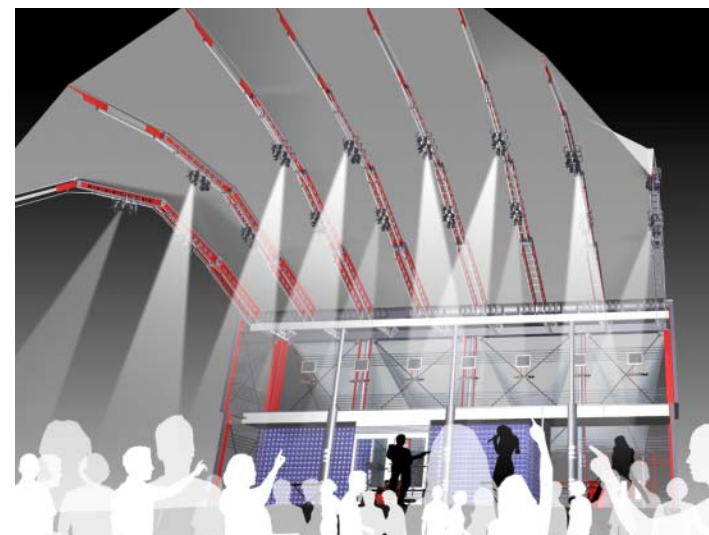
Project Title: **Mobile Music Library**
 Students Name: **Vincent Hui**
 Level: **Masters**
 Course:
 Advisor/Instructor: **Michael Elmitt and Thomas Seebohm**
 Principal Investigator: **Thomas Seebohm**
 Department / School: **School of Architecture**
University of Waterloo,
Waterloo, Ontario, Canada

Summary description of project:

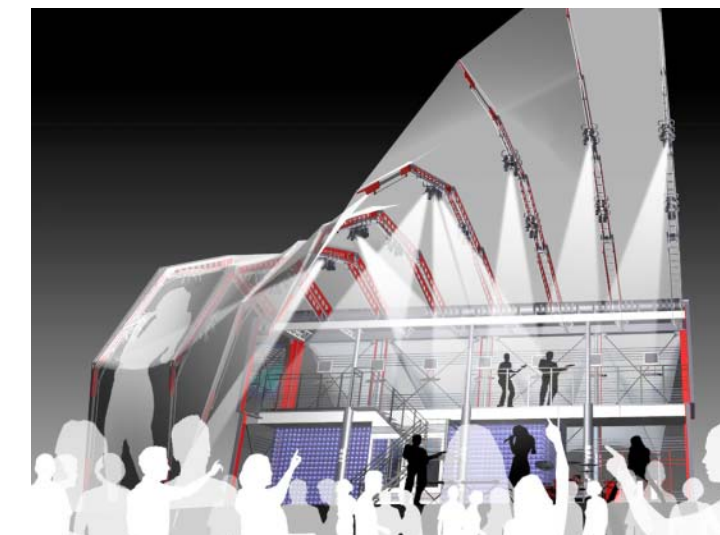
"Much like the vehicles used in various 'books on wheels' programs, this design would be instrumental in facilitating music education, documentation, and performance to all corners of the world. Housed within a trailer lies a music instrument library, a sheet music library, a bank of recording studios and listening database, as well as a performance space readily adaptable to different venues and scales of performance. Investigations into vacuum wall and collapsible speaker systems addressed acoustic issues of such a versatile unit".

Reasons for the nomination:

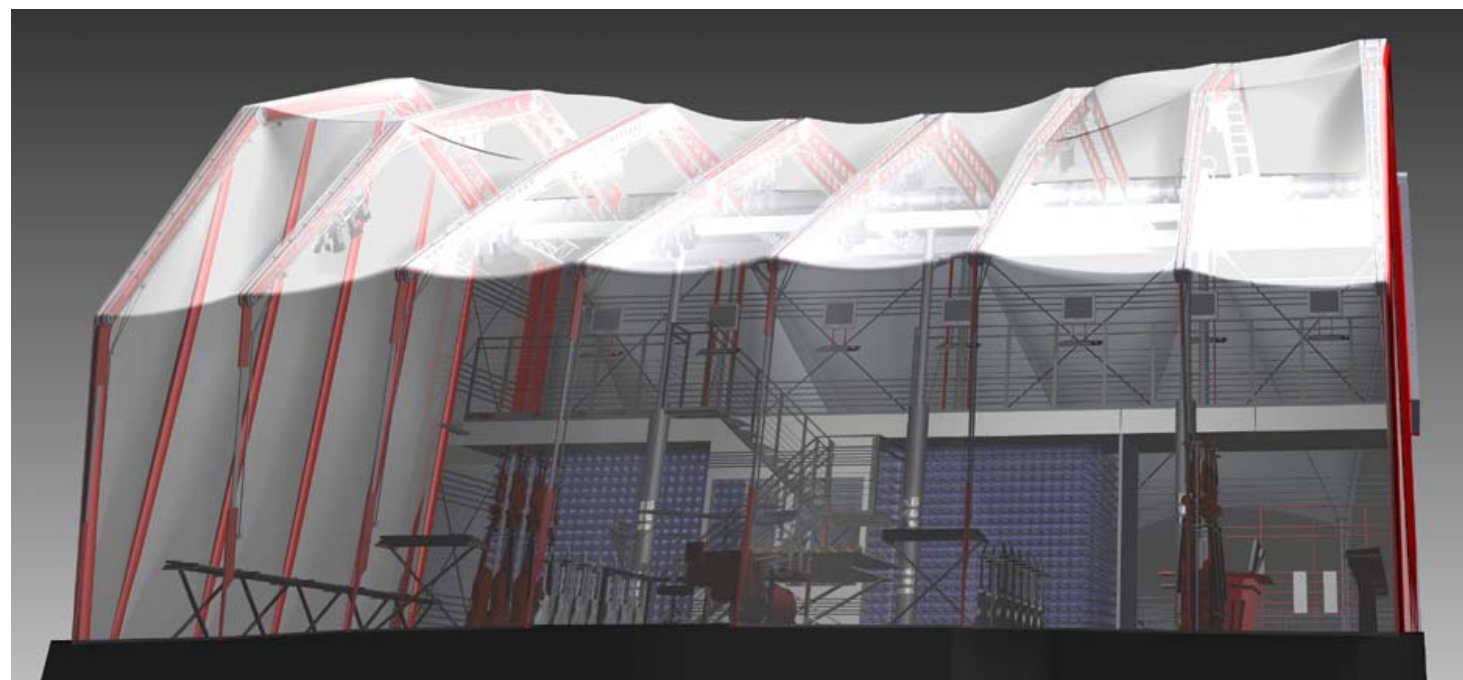
This project demonstrates the use of **form•Z** as a research and design tool. The design of the vacuum wall system required **form•Z** models to be analyzed in acoustic packages, while visualizing the complexities of various iterations of tensile canopies also was made possible through the software. This project demonstrates a high degree of innovation at several levels: the unique idea of such a mobile facility, the ability to model and render the facility in different configurations of deployment and technical innovations the project embodies in the area of acoustics.



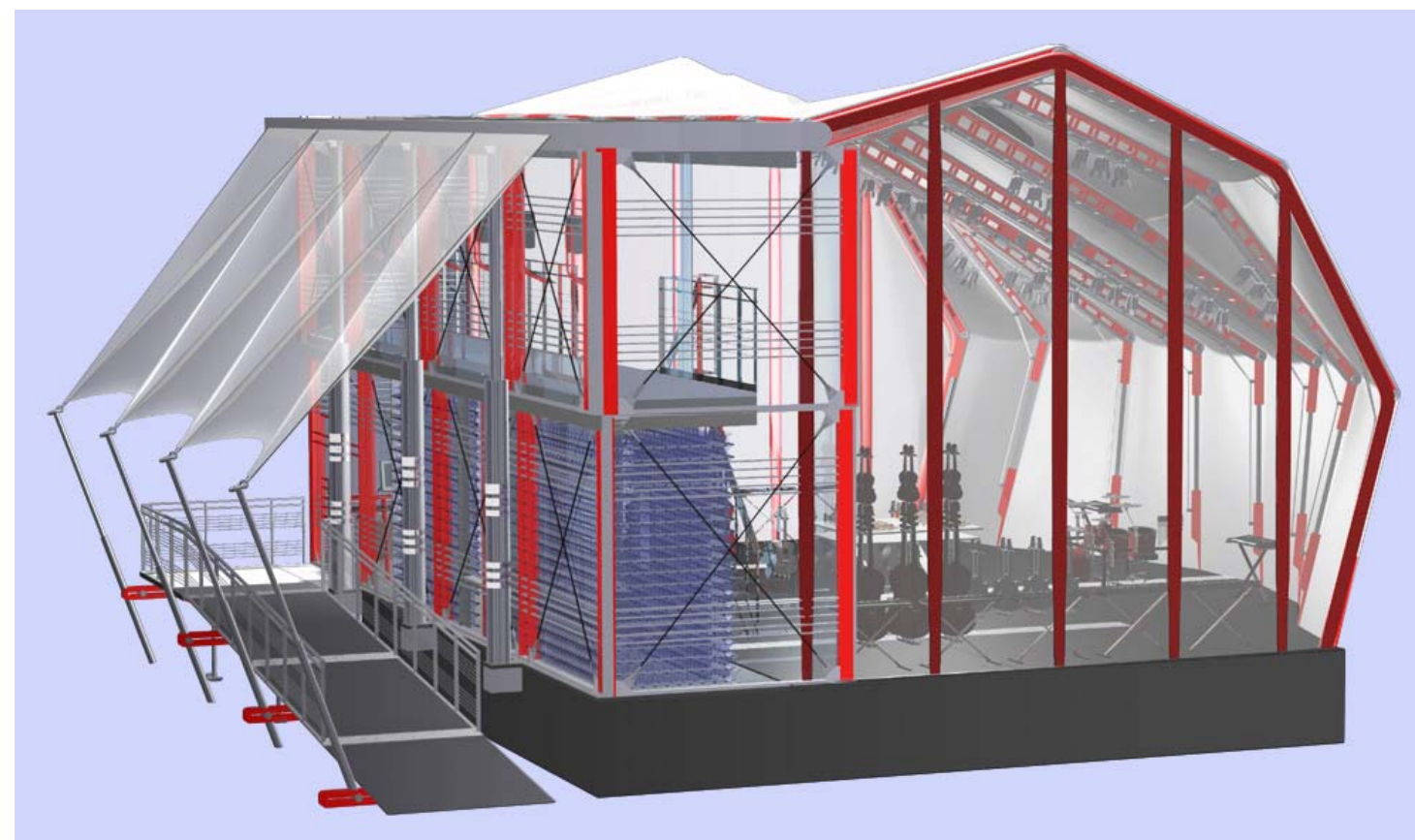
Staging for Large Venue.



Staging for Medium Venue.



Mobile Unit Closed Configuration



Mobile Unit Entry



Instrument Library.



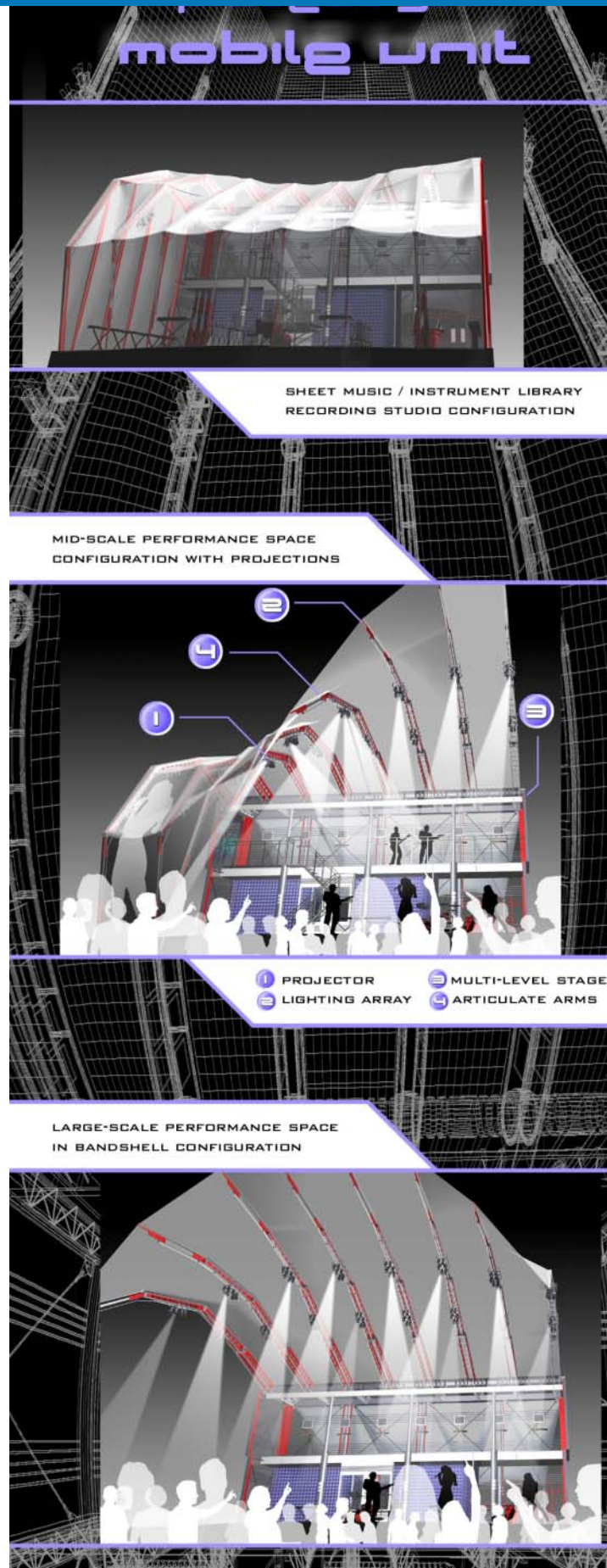
Sheet music / audio library.



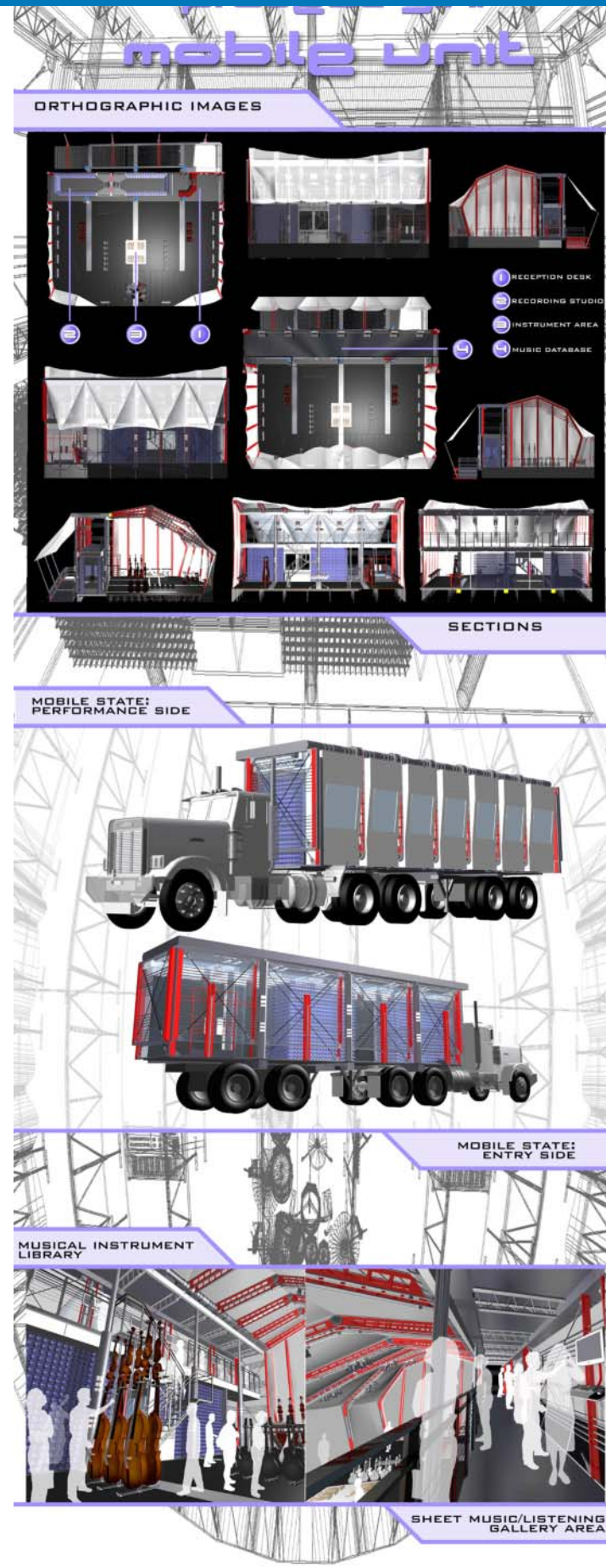
Transportable Configuration 2.



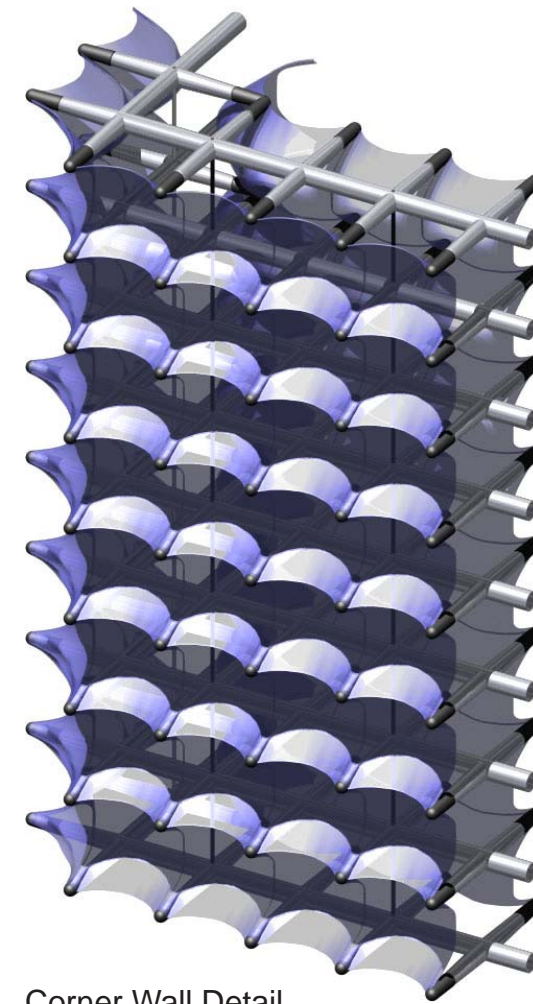
Transportable Configuration 1.



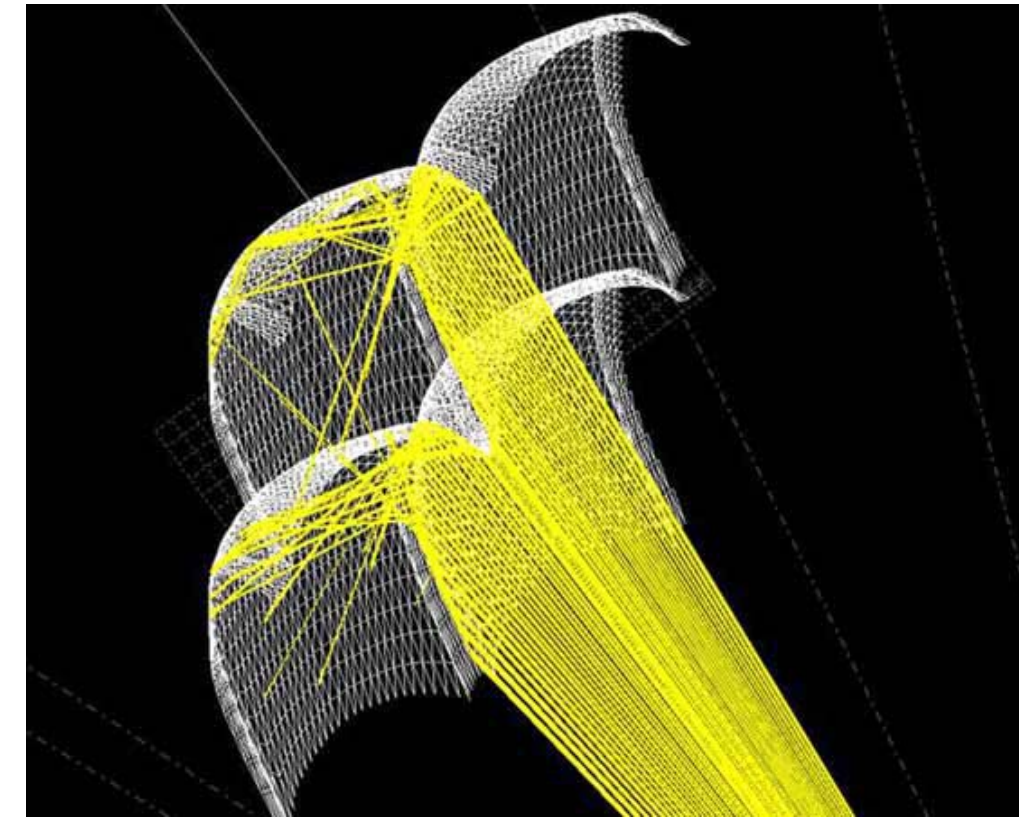
Presentation Board 1.



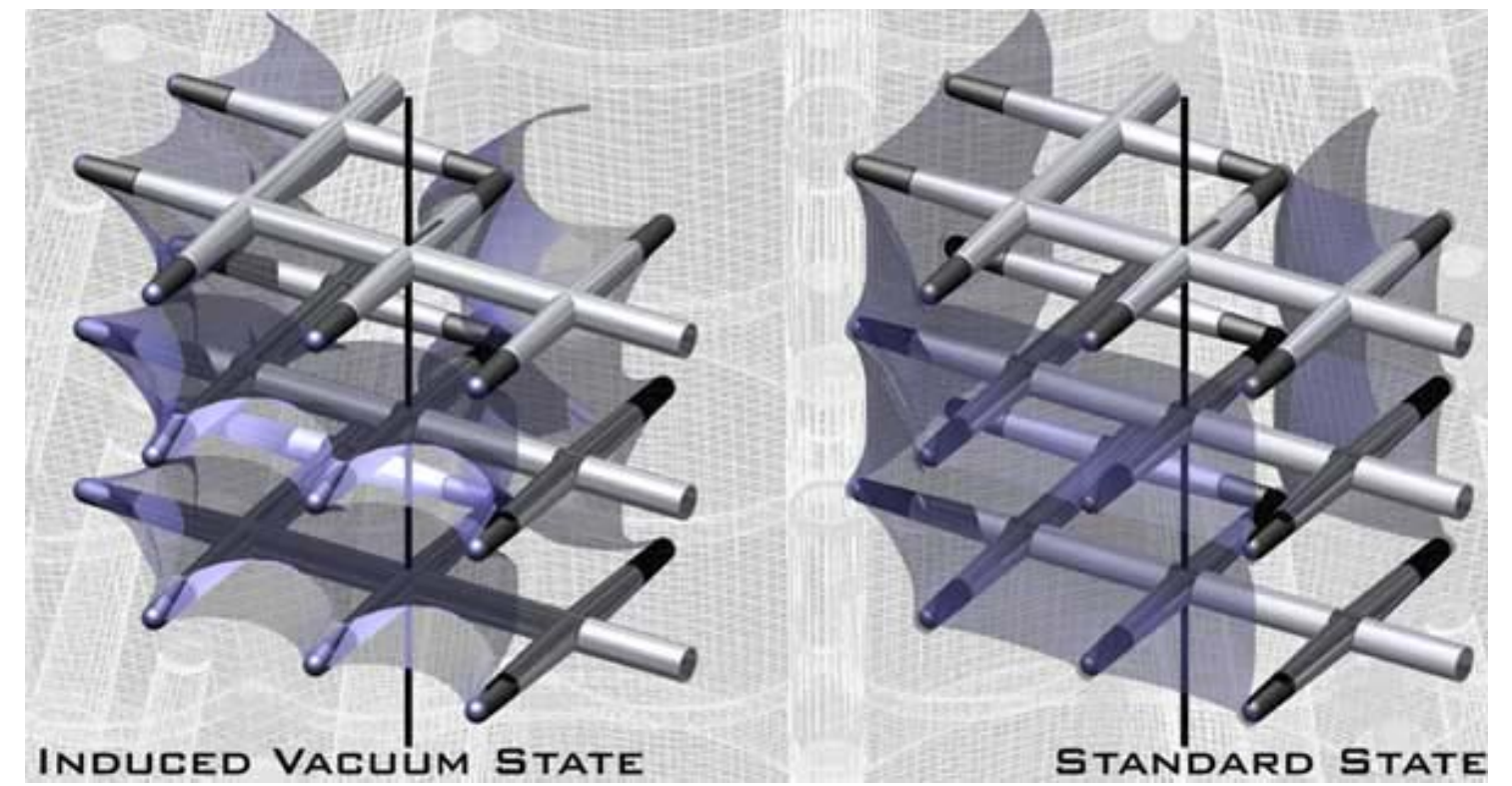
Presentation Board 2.



Corner Wall Detail.



Vacuum Wall acoustic spray test.



Vacuum Wall configuration.