WOODTRENDS
BY SOUND SEAL

CASE STUDY
TRINITY LUTHERAN CHURCH

OVERVIEW

This project incorporates 5,520 square feet of **WoodTrends Elite**, custom wood veneered acoustical ceiling panels, featuring a design with many angles, slopes, inside and outside corners. Due to the fact that there are very few panels that are actually installed in either a horizontal or vertical configuration, hardware and installation design was critical.

PRODUCT USED
ELITE

PROJECT LOCATION
OWATONNA, MINNESOTA

PRODUCT

The Elite ceiling panels feature a bird's-eye maple veneer. Due to the size of the project, sourcing the logs for the bird's-eye maple was very challenging. Logs were sourced by the master veneer-maker and chosen for the amount of "eyes" and consistency from log to log. After slicing, the veneer was laid up by hand with particular attention to color, grain structure, amount of "eyes" and overall size. While pre-manufactured veneer, or even laminate would potentially have shortened the lead-time for the products, manufacturing the veneer "from scratch" actually helped to keep the cost down, as well as allowed for the ultimate in quality control.

The Elite panels were manufactured with a 7-millimeter hole on 16-millimeter irregular centers to provide the owner with a truly acoustical ceiling. The back-side of the panels were covered with an acoustic textile combining with the percentage of open area provided by the perforations to achieve a full 0.75 NRC rating per ASTM C423.

WOODTRENDS ELITE PANELS ARE CREATED TO WITHSTAND VARIOUS CONDITIONS, ENSURING A ROCK SOLID INSTALLATION THAT WILL OFFER BEAUTY AND QUALITY FOR YEARS TO COME.

INSTALLATION

Construction documents for the project were very scarce in detail concerning the installation of the ceiling products. The manufacturing and installation team were left to design the most efficient way of installing the products. Complex shop drawings were created showing a combination of elevations and sections through the multiple planes and levels of this complicated ceiling. Particularly difficult was designing and implementing the panel terminations at the wall/ceiling interface, as much of the wall surface was an irregular stone. Hundreds of linear feet of custom black bent metal were used to create reveals at the many different angles where ceiling planes meet.

Further complicating matters is the extreme heights and angles incorporated into the design of the space. This required a large portion of the project to be installed utilizing lifts as opposed to scaffolding.

Due to all the complicated shapes, the contractor was required to field cut many panels to accommodate all the angles and slopes of the ceiling. Overall, the result was an installation more than worthy of the quality of the products themselves.

Finally, particular attention was paid to the fact that at the extreme heights of the space, variations in temperature and humidity would occur throughout the year. WoodTrends Elite panels are created to withstand these conditions, ensuring a rock solid installation that will offer beauty and quality for years to come.

LEARN ABOUT
ELITE