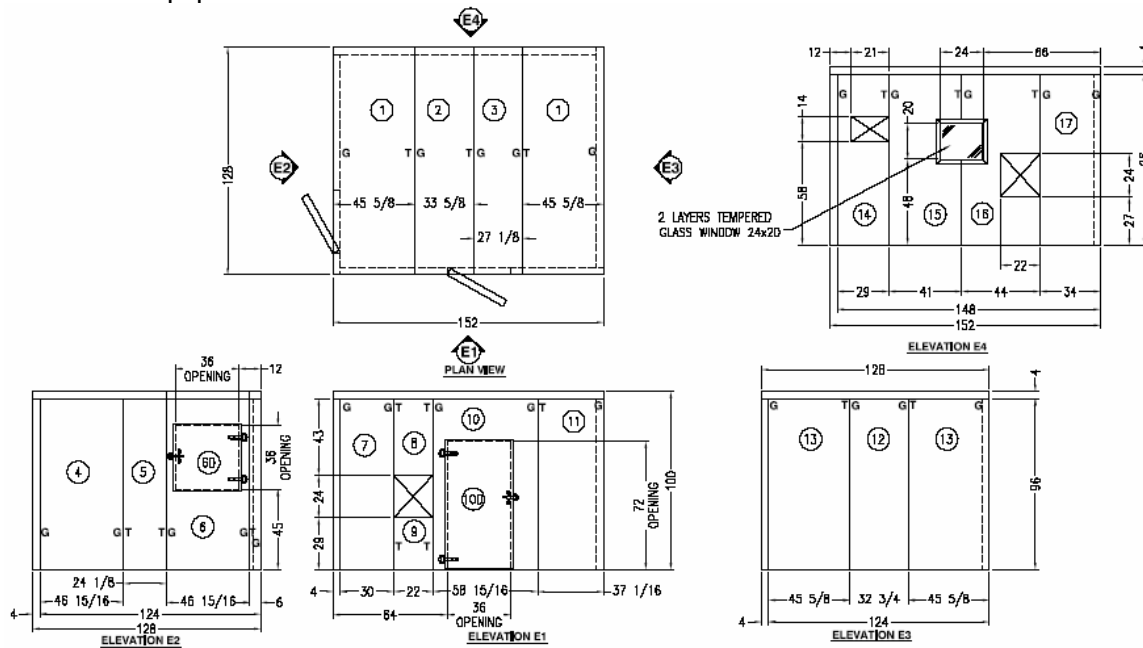


## Quiet Room/Inline Sound Test Case Study

A manufacturer of electric motors contacted Unger Technologies stating that they perform a simple sound test on each motor at a station along their production line in which the operator listens to the motor as it runs to detect if the motor is running correctly. Their problem was the ambient noise in the manufacturing facility was too loud to effectively perform this test and they were transporting the motors to another area to do the testing, thus disrupting the smooth flow of production.

Unger Technologies conducted a sound level reading around the area where the testing was being performed and worked with the customer on establishing a goal for the sound levels needed for the testing. The facilities ambient sound levels were 78 – 83 dBA and the goal for the testing was 55 – 60 dBA.

The customer required a solution that would allow the motors to travel through by conveyor, enclose the testing station and operator and provide access for maintenance of the test equipment.



Unger Technologies solution was a modular steel acoustical enclosure. We provided cutouts for the conveyors, personnel and equipment access doors, windows to view incoming motors, air conditioning, and silenced ventilation.

The "Quiet Room" exceeded the customer's sound level goals and they are planning to add similar inline test rooms to the other assembly lines.

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