

Case Study

Central Vacuum System for Modular Home Builder

Systech Design Inc. completed the installation of a central vacuum collection system for a major modular home manufacturer located in central Pennsylvania. The fabrication and assembly of prefab structures in an indoor controlled environment allow for a vastly improved production rate and better quality control. During the process, significant amounts of airborne particulate, nuisance dust and heavy particulate produced by circular saw cutting, routing and power wand sanding of drywall are generated, slowing the production process, creating an unsatisfactory work environment and fostering a housekeeping nightmare.

To maintain a clean facility, Systech designed and installed a high efficiency vacuum collection system. Because the manufacturing facility covered approximately 50,000 square feet, over 1100 feet of tubing with 27 collection points were required. At any time, the system needed to accommodate 12 operators simultaneously.

Design engineering resulted in the selection of a 30 HP vacuum producer rated for 1000 ICFM @ -6.4" Hg, a self cleaning high efficiency cartridge dust collector with 678 square feet of filter media with a 99.99% efficiency and collection system components including flex hoses, tools and electrical controls.



The installed system is presently collecting over 7.5 cubic feet of drywall dust from power wand sanders, sawdust from routers and circular saws every 12 hours of production time. Systech Design, Inc. was awarded the "sole source" contract for both systems because of our ability to provide a single point responsibility, including not only a complete engineering design package with all equipment and installation, but a 24/7 maintenance and service package.

SysTech Design, Inc.

300 North Pottstown Pike • Exton PA 19341

Phone: 800-456-9460 Fax: 610-524-7355

E-mail: Info@systech-design.com • www.systech-design.com