



### Activity

Victaulic Company is the world's leading developer and producer of mechanical pipe joining systems and the originator of the grooved piping method. Victaulic products are in use worldwide for a variety of industrial, commercial and institutional piping systems. Applications vary from heating, air conditioning and fire protection to process systems, mining, maritime, oil field, municipal treatment, power industry, pulp and paper, food, and original equipment piping.

### Testimonial

"The main concerns for our evaluation were the products' ease-of-use, accuracy, and ability to realistically handle our CAD assemblies. During our evaluation of DesignSpace, we set-up and solved in less than 2 hours what was taking close to 2 days in the incumbent analysis system. The set up and processing time savings, coupled with the ability to run multiple design iterations with DesignXplorer, and manage the results efficiently is the competitive advantage we were after."

-Wayne Biery -  
Engineering CAD Manager, Victaulic Company



### Challenge

"Advance our design process from "proof of design by prototype" to "proof of design by analysis" while finding a more cost effective total CAD and analysis solution."

- Benchmark all available design systems
- Must be reliable and versatile
- Easy to use for the occasional user
- Ability to manage design iterations and revisions
- Tight integration with Solid Edge CAD software
- The new system must remove any doubt as to the effectiveness of the "analysis first" process

### Solution

Benchmark all mid range FEA software with a group of Victaulic's technology specialist as proctors.

Critical evaluation points:

- Real time design of sprinkler product live
- Compare accuracy of live analysis against known results from incumbent FEA tool
- Test associativity with CAD systems
- Evaluate total cost of ownership
- Ability to handle multiple design iterations easily

### Benefits

- Productivity gains as great as 2 days down to 2 hours
- Received reliable results quick enough to maintain the design thought process
- Ease of use, improved accuracy, quick solving times, and better reporting over all other competitors evaluated
- \$80,000 annual cost savings for total design solution of CAD and FEA, due to lower product and maintenance costs over incumbent