

took 1-1/4 hours. The actual act of installing the fabric duct required 15 and 30 minutes to string it along the cable line

and hook it to the furnace plenum, respectively. Gates estimated the installation savings at more than \$1,300. Equally important, the worker was sent back to a billable project for the majority of the day.

The fabric duct was also less expensive in material costs than metal. The cost for 10-five-footlong lengths of spiral duct, five couplings, eight registers, eight boots, one adaptor, one end cap and miscellaneous hanging materials was approximately \$200 more than the SimpleSox cost.

The SimpleSox arrived in boxes at a cost of \$8 for shipping from Air Products Equipment, Elk Grove Village, Ill., which is the first SimpleSox stocking distributor for Northeastern Illinois. It consisted of three 15-foot and one 1.5-

foot lengths; four Adjustable Air Outlets (AAO), which is SimpleSox's patented and field-adjustable air registers; and one inlet collar and endcap. The AAO's come in either 8 and 4 o'clock or 10 and 2 o'clock orifice positioning. Since State Automatic's four AAO's distribute air from both sides, a great time savings was achieved versus installing eight registers that only distribute from one side of a metal system. The AAO's are factory-set with medium airflow, but are also field adjustable to a multitude of cfm settings by twisting the opposing AAO layers to regulate the orifices.

"...we could have used SimpleSox to increase our profit margin..."

SimpleSox was recently introduced by DuctSox, Dubuque, lowa, a 25 year-old manufacturer of fabric duct/diffuser systems that until now were custom-made and specified by mechanical engineers for only large plan/spec projects with open architectural ceilings. Unlike the plan/spec product line, SimpleSox competes directly with spiral metal duct because it's modular, easy-to-design, in-stock and shipped overnight to a project site. Although it also has elbow components, SimpleSox is designed mainly for smaller projects under \$3,000 that have straight runs or just a few 90-degree turns.

"We could have used this concept last summer for a yoga shop in a retail strip center build-out," said Gates. "We won the \$5,000 contract against other bidders, but we could have used SimpleSox to increase our profit margin, save the customer money and completely blow away the

competition, which all specified metal duct like we did. The client was in a hurry too, so we could have installed the air distribution system in a half day versus the four days required for metal and accessories."

State Automatic's business consists mainly of new luxury homes with multiple HVAC system installations and operates six service trucks in Chicago's western suburbs, but also bids a handful of light commercial projects where SimpleSox will give them a competitive edge, according to Gates. They have already used their own system as a demo for several prospective clients.

The quest for fabric is ironic since the firm has more than \$25,000 invested in a 10 x 4-foot layout table with power notching and shearing

capabilities; an 8-foot snap lock fabricator; and a variety of brakes and other sheet metal equipment. "Fabric will never completely replace metal duct on all types of projects, but for the right application, we now see SimpleSox as a hedge to increase profit margins and help win bids," added Gates.



A comparison of the amount of SimpleSox vs. the amount of metal it would have taken to complete the State Automatic project. Think of the cost savings on shipping, materials, and labor!



The modular, stockable SimpleSox components for the State Auto project, including installation equipment.



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