



Commercial Building Insulation and Air Sealing

Featuring: LPG™ Proportioner

Project:

Spray Foam Wall Insulation

Location:

Kent, Washington

Owner:

Commercial Real Estate Developer

Applicator:

Pacific Coatings

Coating System:

Envelo-Seal™ 0.5 lb. OC Spray Foam

SPI - LPG™ Proportioner

Total Area:

7,500 square feet

Date Completed:

February 2010

PROBLEM:

The owner of a sprawling commercial business park was renovating and converting buildings to leasable office space. One future building tenant, a leader in the IT field, had special indoor temperature and environment requirements due to their expensive and sensitive computer equipment. The owner needed a truly sustainable insulation solution that would protect the tenant's IT investments and reduce the energy demand on the building's HVAC system.

SOLUTION:

The building owner looked at using various types of insulation including fiberglass, mineral wool, rigid foam board and spray polyurethane foam. The contract was awarded to Pacific Coatings and the building owner chose Envelo-Seal™ 0.5 lb. OC spray foam because of the product's good R-Value (thermal resistance) and superior air sealing characteristics. Pacific Coatings decided to use SPI's

LPG™ lightweight spray foam and polyurea proportioner for this project. Remarkably, the LPG™ portable proportioner only weighs 76 pounds and can easily be operated by one person. This provided a less-costly equipment deployment alternative compared to traditional larger and more expensive equipment.

The contractor applied 3.5 inches (nominal yield) of Envelo-Seal™ 0.5 lb. OC spray foam in between the interior wall and sub-roof deck studs. The applied spray foam provided an R-Value of roughly 13. The final step consisted of shaving off excess foam and nailing gypsum wall board over the insulation to meet the 15-minute thermal barrier code requirement.

RESULTS:

The building owner was very pleased with the finished product and quality of work.



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