

1" Thick R-50 Value Insulation Reduces Project Cost by \$200,000; Boosts Energy Efficiency

CASE STUDY:
Mitchell H. Cohen
US Courthouse



The world's only R-50 value insulation at 1.5" thickness or less.

The Challenge

The Mitchell H. Cohen US Courthouse is a 180,000 square-foot government facility in Camden, NJ. The building is 7 stories and contains 12 courtrooms and several attendant facilities, suites, and offices. Originally completed in 1994, the building's roof, ceiling, and wall systems were experiencing water intrusion. The source of the leakage could not be identified. The facility manager needed a partner who could identify the problem and provide a long-term, sustainable solution.

The R-50 Insulation Systems™ Solution

The GSA engaged R-50 Systems to analyze the problem and recommend a solution. R-50 Systems' sister company, Roofing Resources, Inc. (RRI), conducted a visual building envelope investigation of the various levels of the courthouse roof, which showed several areas that needed replaced. Next, a complete infrared thermographic survey to detect moisture was performed on the affected areas. This provided a comprehensive assessment that revealed sections of water-damaged insulation.

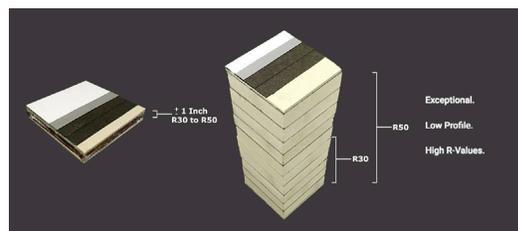
R-50 and RRI resolved the problem by installing a system of concrete pavers and a revolutionary 1" thick vacuum-sealed, patented, and certified R-50 value insulation panel.

This ultra-thin Vacuum Insulated Panel (VIP) was developed by R-50 Systems to provide building owners with an option to maximize energy efficiency without unnecessary and destructive building modifications. Because VIP can be specified for custom size requirements, the amount of wasted material is significantly reduced. VIP also helps to provide net-zero options when building retrofits are necessary.

The Mitchell H. Cohen Courthouse was R-50's pilot test of their new VIP system, which qualified the company for a Federal Supply Schedule from the GSA, allowing Federal Government Agencies and Contractors to conveniently procure the product.

The Result

By implementing the VIP system, the cost of construction was significantly under budget. Oak Ridge National Laboratory evaluated the job, reporting that R-50's VIP created a savings of \$200,000.



OWNER:

General Services
Administration (GSA)

PROJECT NAME:

Mitchell H. Cohen
US Courthouse

PROJECT TYPE

Infrared Survey
Roofing & 1" Thick R-50 Value
Insulation System Installation

BENEFITS

\$200,000 Savings
Energy Efficiency



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R-50 INSULATION
SYSTEMS
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