

## Multi-Residential

## Syracuse Housing, New York



Left: The energy-saving panels were installed on one of the courtyard walls of the eleven-story apartment building.

Above: The solar heating system connects to the rooftop HVAC system to distribute air throughout the building.

### Background

This installation was a retrofit at an apartment complex in Syracuse, New York. The building was about 25 years ago, and the owners of the building wanted to reduce their energy costs, and improve the ventilation within the corridors.

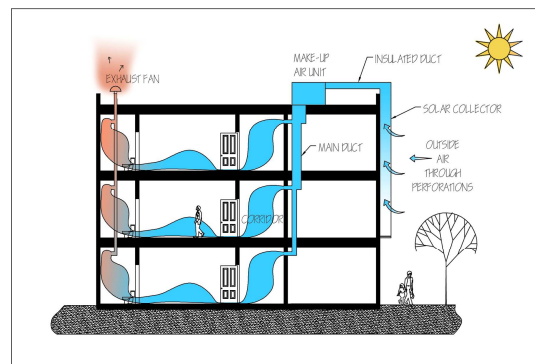
### Solution

1,100 ft<sup>2</sup> (100 m<sup>2</sup>) of black solar cladding was installed on a courtyard wall, spanning the entire height of the building. The system connected to the existing air handler on the roof, to deliver 4000 cfm of makeup air.

The project has garnered awards for its use of innovative technologies; winning the ASHRAE Twin Tiers Chapter's First Place Technology Award, and an Honorable Mention under the ASHRAE Region 1 Technology Award.

### Results

Taitem Engineering of Ithaca NY, consultants for the project, have monitored the performance. The data shows solar efficiency gain of over 60%, which is why the client is very pleased with the functioning and performance of the installation.



The SolarWall® schematic shows how air is warmed on the surface of the panels, then how it is drawn into the building, and distributed along the corridors, and into the individual apartments.

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