



PROJECT PROFILE

WILLIAMSPORT REGIONAL MEDICAL CENTER – SUSQUEHANNA TOWER

Staycell ONE STEP® 255 Spray Foam Insulation

Location: Williamsport, PA

Project Size: 50,000 square feet

PROJECT OVERVIEW:

Williamsport Regional Medical Center, a state-of-the-art facility that's part of the Susquehanna Health System, underwent a \$250 million dollar construction and renovation project to improve and expand patient services in central Pennsylvania.

Efficient Building Envelope

The exterior walls of the newly constructed Susquehanna Tower consist of energy efficient windows set in 5" thick rectangular pre-cast concrete assemblies bolted to a structural frame.

The original specifications called for a spray-applied air/moisture barrier insulated with rigid foil-faced insulation. After careful performance and cost analysis the specification was switched to spray polyurethane foam insulation, which provided the client higher performance at a significantly lower cost.

The application called for 3" Staycell ONE STEP® 255 closed-cell foam applied to all interior surfaces of the wall assemblies. Prior to application, PSI conducted a WUFI analysis (hygrothermal building modeling program used to predict moisture and thermal transport in building envelope systems over a period of time) to confirm thickness and performance.

Benefits Staycell ONE STEP® 255:

- Superior fire performance. Building code compliant without thermal barriers, ensuring fire safety before and after drywall is installed
- Consistent application in difficult access areas such as behind columns and roof/wall/floor joints
- Provides superior R-value compared to other traditional materials such as fiberglass
- Creates seamless air barrier that eliminates energy loss through air leakage
- Strengthens roofs and walls, increasing structural integrity
- Provides vapor retarder that controls moisture problems
- Environmentally friendly, containing no ozone depleting materials
- Installed by PSI trained Authorized Applicators

