

# Fitchburg Senior Center- O'Neill Hall Roof Insulation

Installer: **FoamRun**

Location: **Fitchburg, MA**

Type of Job: **Roof /ceiling cavity insulation**

Square Footage of Job: **11,718 gross square feet of ceiling/roof cavity insulation**

Equipment Used: **Fusion air purge guns, Graco e30 proportioners**

Number of people needed for the Job: **4-Jun**

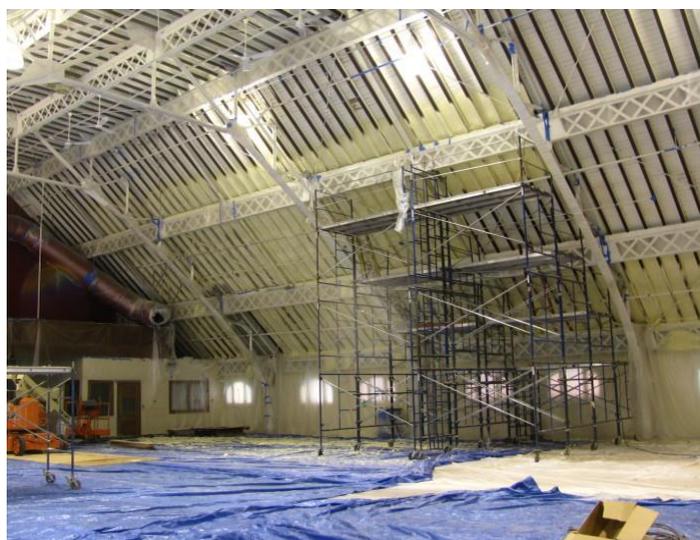
Number of days required by the Job: **38**

Special Requirements: **extreme masking and protection, time constraints in contract, Davis Bacon wages**

Foam and coatings used: **Bayseal Closed cell foam, Blaze Shield II thermal barrier**

**Project Description:** Contract was to install 11,718 sq. ft. of closed cell foam insulation in the roof of the Fitchburg Armory building (which houses the senior center), as well as thermal barrier over the installed insulation. There were many unusual factors and conditions for this job: • The armory building is a Historical structure- FoamRun had to complete a 100 sq ft mock up that required the approval of the project architect and the Massachusetts historical commission before proceeding with the work • Schedule- we had a maximum of 45 days to complete the project or face a \$500 a day penalty. • Masking- This was retro fit work in a completely finished function hall. Also the roof rafters and iron structural members are fully exposed, had recently been painted, and were to remain exposed. FoamRun masked the roof rafters by bending aluminum into “U” shaped channels to fit over the rafters. Structural beams were covered with painter’s plastic. • Clean-up- there was an enormous clean up at the end of the job. We filled 2 garbage trucks with all the scrap thermal barrier and discarded masking materials. The application of the thermal barrier was very dusty, and we hand wiped almost every surface in the work area. • Foam Tolerances- Since the foam and thermal barrier was also the finished ceiling we had to maintain an extremely smooth finish on the foam. We had 2 sprayers working at any given time and 2 other workers coming behind them scraping the foam down to an even 4” depth. • Staging and Man lift- The hall that was insulated is one big open room, with a balcony at either end. The ceiling sloped up to a flat roof area that is 35’ above the floor.

**Benefits of using Foam:** Closed cell spray foam allowed for high R value in a limited cavity. The foam and thermal barrier system was the only assembly tentatively approved by the Historical Commission, Project architect felt that SPF would help improve the structural stability of the roof framing system.



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**Category: Unique Application**

