



University Studios: Spray foam renews 1 roof, creates support for a roof deck on 8-story building

PROJECT INFORMATION

Project Year: 2021

Project Size: 3 roofs, 12,000 sq ft.

Project Location: Cleveland, OH

Project Overview: Spray

Polyurethane Foam over existing

Smooth Modified Bitumen

Manufacturer Used (Foam): Carlisle

Manufacturer Used (Coating): Henry
(Basecoat) and Carlisle (Topcoat)

University Studios is an 8-story, apartment building in downtown Cleveland, OH. There are three roofs on the property: a 10,000 sq. ft. middle section, and two 1,000 sq. ft. roofs on each side of the middle section.

Spray polyurethane foam was the most cost-effective option because it can be installed over the middle roof; avoiding tear-off.

It also chose SPF on the two decks because of its exceptional R-value and the ability to custom create slope.

The two smaller roofs had excessive ponding water (bad sloping) and with the insulation being 100% saturated and needing to be removed, an R-25 needs obtained.

They also wanted to install a deck on one of the smaller roofs to create a new patio for their family to use when they come into town.



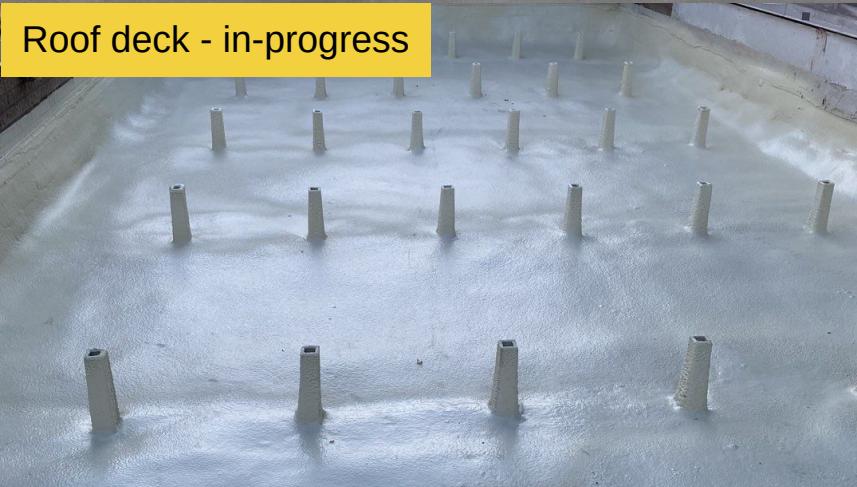
Middle section - before



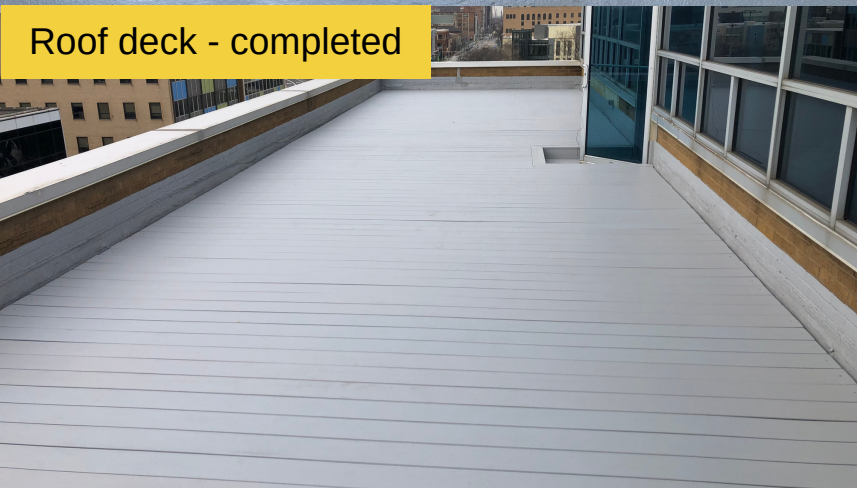
Middle section - after



Roof deck - in-progress



Roof deck - completed



Final Scope of Work

- Both patio roofs 100% torn off (3 inches of saturated insulation)
- Middle section power washed
- 72 1ft. tall aluminum supports installed
- Worked in tandem with the general contractor who installed a new deck
- Prevented overspray on glass windows and the rest of the building using tarps and burlapped stantions
- 1.5" of foam and 30 mils of coating were installed on the middle section
- 4" of foam and 30 mils of coating were installed on the two decks.
- The entire roof is under a new 20-year warranty.

Going with SPF today, instead of going with a tapered system next Summer, reduced the cost of the deck installation by 50%.

The two decks increased R-value from an R-5 to R-25.

The middle section increased R-value from an R-5 to R-15.