

CASE STUDY: DATA CENTER

LOCATION: DURHAM, NC



SITUATION:

A large data center was experiencing significant challenges on its roof due to heavy concrete pavers. These pavers were originally installed on the roof to protect it from ice falling from a tower near the building. They were causing stress at the flashing points due to building movement and were driving up repair costs. These unique needs meant a simple one-size-fits-all roof wouldn't be the answer. Plus, as a data center, it was imperative that the roof was watertight because even just one leak could be detrimental.

 48,215 sq. ft.

 SR 463c

 SR 435a



SOLUTION:

Simon Roofing's experts developed a custom solution that would eliminate the concrete pavers but still provide protection for the entire roof, including those critical areas. First, Simon Roofing removed approximately 35,000 sq. ft. of concrete pavers across various roof sections. Starting with the first area, Simon Roofing installed ¼" roof board, followed by the SR 435a system, which consists of multiple layers of SuperiorPly Ultra membrane, SR Poly and Wite Brite™ coating. On the remaining sections, Simon Roofing installed the SR 463c system, which consists of one layer of SR Flood Coat, SR Poly and multiple layers of Wite Brite™ coating. After completion, the roof was more structurally sound without the weight of the concrete pavers, as well as more resistant to punctures and foot traffic. The Wite Brite™ coatings created a seamless surface across all roof sections designed to reduce the possibilities of leaks.

END RESULT:

- Seamless, watertight roof designed for building type and need
- 20 year warranty on labor and materials
- Multi-layer roof systems for increased durability and puncture resistance



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