



ROOF SENTRY

Case Study Atlanta, Georgia

February - 2023



Objectives:

We were approached with a potential project in the midtown Atlanta area that was in dire need of help. After performing an infrared moisture survey to ascertain the amount of damage on the roof, we created a custom installation plan to get the roof back into watertight condition and to dry down the wet insulation inside of the roof system.

Challenges:

The roof system was a mechanically-attached button cap EPDM that was past the end of its service life. There were numerous tears and splits in the field of the roof as well as several runs of seams that had delaminated and were letting water roar into the building. The owner needed a quick solution without wanting to tear the entire roof off. based on the results from the moisture survey there were several thousand gallons of water trapped inside the roof system.

Solutions

①

Repairs

First we had to stop the water infiltration into the building. All of the seams and penetrations were sealed with a high solids silicone to ensure that the roof system was watertight.

②

Venting

Second, using the data we had gathered from the infrared survey. We created and installed a custom layout of RS-1 and RS-2 vents. This allowed us to dry down the wet insulation in the eight month window.

③

Monitoring

We continued to monitor the progress of the roof system dry down and adjusted the RS-2 vents as needed to enhance the rate at which the water was removed across the different wet areas.



Results



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Through making the roof system watertight and installing our Roof Sentry venting system we were able to dry down the roof over 95%(based on sq.ft. of wet areas) in just under 8 months. All while not having to replace any insulation or disrupting operations of the client underneath. There was an estimated \$1.2 million dollars+ saved on the project by eliminating the need for tear-off and replacement.

95%

Reduction in size of wet areas across roof.

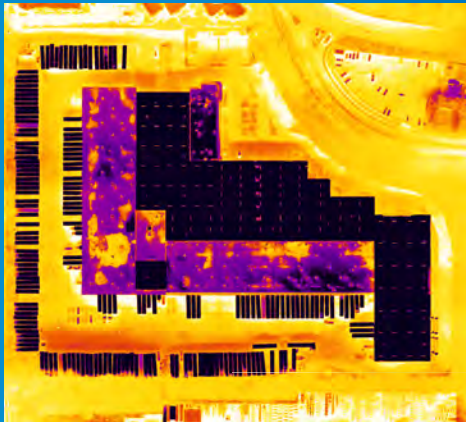
78%

Savings by not having to tear off the roof system.

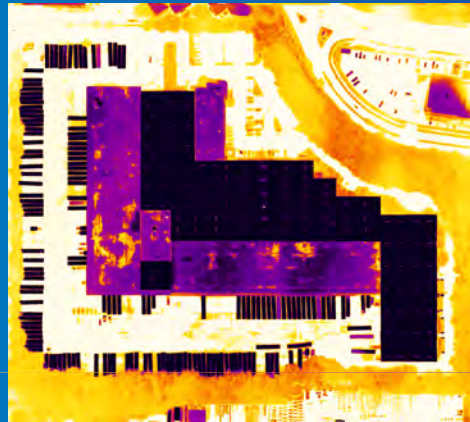
100%

Elimination of any disruptions due to potential roof replacement

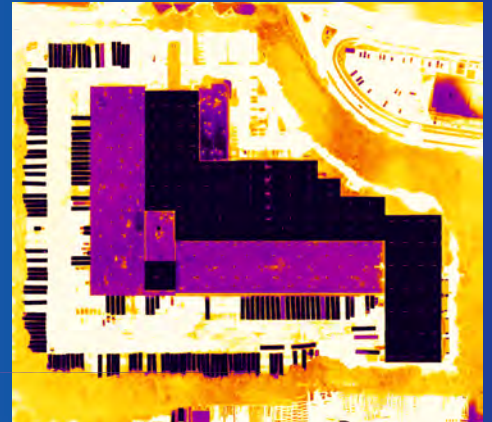
February 2023



May 2023



October 2023



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