

Project Profile

A high level of contemporary sustainable design

About the Brook Street House

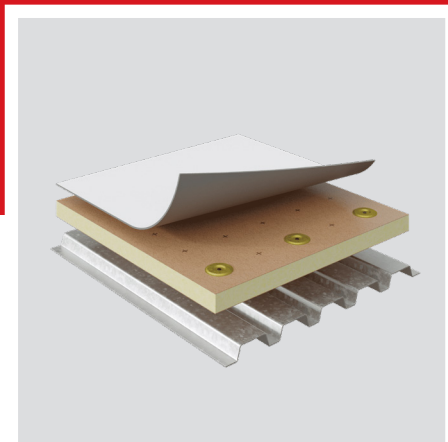
Studio 804 is a design/build program for graduate students at the University of Kansas Department of Architecture. 1330 Brook Street maintains a high level of sustainable design, as well as remaining contextually sensitive to the East Lawrence community. By choosing an urban infill site, they welcomed the opportunity to integrate the house into the existing neighborhood fabric.

The house is also reminiscent of the well-known Lustron houses developed in post World War II U.S. in response to the shortage of housing for returning veterans. The use of sophisticated high-performance metal skin accomplishes a contemporary and energy-efficient interpretation of the Lustrons of 70 years ago.



Challenges

Due to the design of the building, a low-slope roof was needed — and, historically, self-adhering membranes have been used. During the time of install, the weather was going to be outside of the recommended temperature range for self-adhering TPO.



Project Summary

- Solution: Single-Ply
- Completed: June 2017
- Building Type: Commercial Property
- Size: 13 squares

Featured Materials:

- EverGuard® TPO 60 Mil Membrane

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GAF

GAF Project Profile

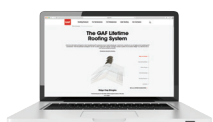
1330 Brook Street House

Solution

In order to use a method of attachment that allowed for excellent wind uplift performance and that would work in lower temperatures, Studio 804 opted to use EverGuard® 60 mil TPO and the RhinoBond® Attachment System. The 60-mil white TPO roof membrane is a cool roof that mitigates the heat-island effect and can help reduce energy costs. Induction heat welding technology was used to fasten the membrane without puncturing it. With over 20 years of experience pioneering sustainability in design and environmental stewardship, Studio 804's goal was to achieve LEED® Platinum building. They subcontract very few to none of the trades, preferring the hands-on experience and educational value their own approach provides. Therefore, students of Studio 804 were the contractors for this roofing job.

"I take great pride in showing our installation of the GAF membrane to industry professionals.... In addition, with the emergence of new building practices, for instance RhinoBond®, we are able to share through our publications the value that peripheral innovative products bring to the industry."

— Dan Rockhill, ACSA and JL Constant Distinguished Professor and Executive Director



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