



The Challenge

- The university was **experiencing recurring roof leaks** at the perimeter edge of the roof and at roof penetrations in one of the campus halls.
- The roof system shingles were found to have a **shortened service life due to the lack of proper ventilation** within the roof system assembly. In addition, the roof system was found to have an R-Value of approximately R6, with the building code for a roof replacement requiring R30.

Diagnosis and Solution

- As part of the design for the new roof system, **IRSC presented several options** to the University and the Architect. The University was looking for a long-term solution but did not want to have the buildings look like a metal building or (in their words) a “barn”.
- Based on IRSC recommendations, the University selected an insulated, metal shingle roof system with a **25-year guarantee with a 120-mph wind warranty and 2” hail resistance**.

Results

- The new assembly was able to achieve a **much higher R-Value to meet building code**, achieve energy efficiency and maintain the building aesthetics the leadership team was looking for.
- The roof system designed has become the **choice for all future roof system replacements** for the entire Ann Arbor campus. The new roof system design has an extended service life and a welcoming look to the students and faculty throughout the campus.

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