

# FORENSIC ENGINEERING — WAREHOUSE ROOF FAILURE DUQUOIN, ILLINOIS



## CHALLENGE

*The roof of a warehouse collapsed following a torrential rain storm. The insurance adjustor required assistance to determine the root cause of the failure along with an assessment if the facility could be re-constructed on the existing walls and foundations.*

## SOLUTION

The insurance adjustor hired HLR to provide structural forensic engineering services for the true cause and origin, an assessment of the extent of damage, and extent and feasibility of repair. All repair scenarios required the current code compliance to be taken into account and whether or not any hazardous materials may be encountered in the work.

HLR provided results to the adjustor in a timely fashion.



## RESULTS

*The assessment was to aid both the Adjustor and the Owner as to what options were available on the removal and/or re-construction.*

- In this case, the cause of the failure was due to long term moisture infiltration and deterioration.
- The collapse was caused by water ponding on the deteriorated roof.
- The walls were salvageable and a new roof was re-constructed on the existing walls and foundations

BUDGET NA

