

Request for Proposal #1 – 2025

Is this Entire Deck Structurally Sufficient to Support Reroofing Operations?

The Roofing Alliance is requesting proposals to identify an existing technology or develop an effective and reliable technology that has the capability to ascertain accurately whether the entire existing roof deck on a building that is to re-roofed has the structural integrity to support roofing equipment, personnel and roofing operations. The objective of the identified or newly developed technology is to evaluate and determine reliably that the existing roof deck is devoid of conditions, localized areas, or anomalies in the roof deck that pose a safety risk to roofing personnel, particularly the threat of a fall through an area of deteriorated or structurally unsound decking.

The construction industry and the roofing industry continue to suffer from falls, including falls through decks. As buildings age, the structural integrity of the deck may be compromised by moisture, rust, penetrations, abuse or other causes that are not readily apparent from a roof surface or below deck observation. The current common procedure to evaluate the risk of unsafe deck conditions by making visual observation and perhaps taking test cuts through the existing roof to the deck is unscientific and unreliable. Test cuts may not be representative of the entire deck.

The objective of the Roofing Alliance is to identify and develop a scientific technology that can be used routinely and economically to assess the condition of the entire roof deck prior to placing roofing personal and equipment of the roof to undertake a re-roofing project, whether that project is to be a complete tear-off down to the deck of roofing over an existing deck. The Roofing Alliance is seeking assessment technologies for various types of roof decks that are commonly encountered in reroofing work, particularly metal decks, gypsum decks and structural wood fiber decks.