



## Communication is key

Timely notification and communication are essential when working with rooftop observers

by Mark S. Graham

In February, the National Roofing Legal Resource Center issued a bulletin proposing contract provision language addressing working with roof consultants and observers. The bulletin stresses the importance of properly notifying roofing contractors when observers will be engaged and timely communication between observers and roofing contractors.

### NRLRC bulletin

When pricing and negotiating a contract, most roofing contractors want to know whether there will be a full- or part-time observer monitoring the project. The presence of an observer may affect the contractor's production (for example, the foreman will spend time interacting with the observer) and, therefore, price.

Also, once an observer is retained, the roofing contractor needs to be promptly advised of any alleged deficiencies or concerns the observer may have so the situation can immediately be addressed. The roofing contractor is entitled to receive the observer's daily reports as they are issued.

The NRLRC bulletin recommends specific contract provision



language addressing proper notification and timely communication between the observer and roofing contractor.

NRCA members can access the bulletin and the suggested contract provision language from the NRLRC website, [www.nrlrc.net](http://www.nrlrc.net).

#### IIBEC's RRO

The International Institute of Building Enclosure Consultants, formerly RCI Inc., has a Registered Roof Observer program that provides guidance for monitoring proper roof system installation and the issuance of daily reports documenting the monitoring. IIBEC's Manual of Practice

provides specific recommended practices for quality assurance observation. Section 3.1.4-Reporting indicates: "Accurate and unbiased reporting to the project team is presented at intervals mutually agreed upon by the involved parties. Reports are filled out during each site visit ... ." The project team is described as the owner or owner's representative, project design authority, contractor and product manufacturer/supplier.

IIBEC's recommended quality assurance observation practice appears to be nonspecific on the timeliness and frequency of the observer issuing daily reports to project team members.

Additional information regarding IIBEC's RRO program and recommended practices are available at [www.rci-online.org](http://www.rci-online.org).

#### FM 1-52

FM Global's Loss Prevention Data Sheet 1-52, "Field Verification of Roof Wind Uplift Resistance," provides guidelines for visual construction observation as a recommended alternative to field uplift testing.

FM 1-52's Section 3.5 provides minimum guidelines for visual construction observation and indicates the visual construction observation's daily reports will be made available to FM Global, the owner, manufacturer and roofing contractor within 24 hours after each site visit.

FM 1-52 is accessible from [www.fmglobaldata.sheets.com](http://www.fmglobaldata.sheets.com).

#### ASTM D7186

ASTM D7186, "Standard Practice for Quality Assurance Observation of Roof Construction and Repair," provides consensus-based practice for quality assurance observation.

ASTM D7186's Section 10-Reporting Procedures/Schedule indicates the quality assurance observation shall provide written daily reports to the contractor upon the completion of the report but no later than the commencement of work on the following day.

ASTM D7186 is available for purchase by accessing ASTM International's website, [www.astm.org](http://www.astm.org).

#### NRCA's recommendations

NRCA has long maintained quality control and quality assurance are essential elements of roof system construction. Quality control is performed by the roofing contractor. Quality assurance is the responsibility of the building owner's representative (architect, engineer, roof consultant, etc.) or a representative of the roof system manufacturer.

NRCA also has long maintained the most effective means to evaluate the quality of a roof system installation is by thorough, continual visual examination and evaluation at the time of application by a person who understands good workmanship and the specific roof system type being installed.

If deficiencies are suspected, they should be pointed out immediately to the roofing contractor so proper corrective action can be taken. The observer's written field report from the previous work day should be provided to the contractor no later than the start of the next work day.

Additional NRCA recommendations regarding quality control and quality assurance are provided in *Quality Control Guidelines for the Application of Asphalt Shingle Roof Systems, Quality Control and Quality-assurance*

*Guidelines for the Application of Membrane Roof Systems and Quality Control Guidelines for the Application of Spray Polyurethane Foam-based Roofing*. These are available in the NRCA Bookstore at [shop.nrca.net](http://shop.nrca.net). 🌱🌿

“Proper quality control and quality assurance are essential elements of roof system construction”

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## Scientists invent hydrogen-producing solar panels

Belgian scientists have invented a solar panel that produces hydrogen as a source of fuel to heat homes, according to [www.inhabitat.com](http://www.inhabitat.com). The solar panels use moisture in the atmosphere to convert sunlight into hydrogen gas, which is stored in an oil tank near the building.

A team of scientists led by Johan Martens at Katholieke Universiteit Leuven in Leuven, Belgium, has been developing the hydrogen solar panel for 10 years. At first, the solar panels only could produce small quantities of hydrogen gas, but now hydrogen gas bubbles appear as soon as a panel is exposed to direct sunlight.

“It’s actually a unique combination of physics and chemistry,” Martens says. “Over an entire year, the panel produces an average of 250 liters per day, which is a world record.”

Martens estimates 20 solar panels could provide enough energy and electricity to heat a home and have some to spare for the following year.

Although the team is not yet ready to build the panels for commercial use, it is preparing for a trial run at a home in Flanders, Belgium. If the tests are successful, the scientists plan to expand their trials to an entire neighborhood.

Hydrogen is a combustible gas and can be dangerous if not handled correctly. The scientists say hydrogen carries the same risks as natural gas.

The technology is viewed as promising with the potential to produce zero carbon emissions. However, there is uncertainty regarding costs related to the solar panels, storage tanks, furnace and installation. It is possible the upfront cost would be high, but homeowners could pay off the system over time if they no longer relied on city electricity or natural gas.

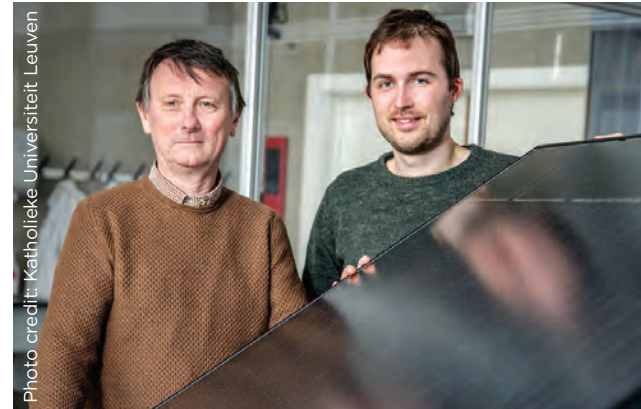


Photo credit: Katholieke Universiteit Leuven  
Professor Johan Martens (left) and his team of bioengineers invented a solar panel that produces hydrogen.

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