

# SMRCA Roving Roofer

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## FM Global Makes Changes – FM Global Loss Prevention Data Sheets have updates that affect the roofing industry

In January, Factory Mutual Insurance Co., commonly referred to as FM Global, updated several of its Property Loss Prevention Data Sheets. These data sheets provide designers with property loss prevention guidance for specific building attributes, including roof assemblies. An overview of the roofing-related changes follows.

### FM 1-15

FM Global Property Loss Prevention Data Sheet 1-15, “Roof-mounted Solar Photovoltaic Panels,” provides guidance related to the fire and natural hazards for the design, installation and maintenance of roof-mounted solar PV panels used to generate electrical power.

The January revision includes minor editorial changes from the previous July 2023 interim revision and January 2023 revision. Most notably, the latest revision clarifies all roof-mounted PV equipment should be checked at six-month intervals for any damage and required maintenance. This is in addition to previously called for checks after seismic or severe weather events, including windstorms, lightning, hail and snowstorms.

### FM 1-28

FM Global Property Loss Prevention Data Sheet 1-28, “Wind Design,” provides general guidance to building designers regarding wind considerations for property protection at highly protected buildings, including recommended design wind pressures for building components and cladding, protected openings and anchorage of roof-mounted solar PV panels. For main wind force-resisting systems and other structures, designers are referred to the specific edition of ASCE 7, “Minimum Design Loads and Associated Criteria for Buildings and Other Structures,” required by the applicable building code.

The January revision, referred to as an interim revision, contains several changes from the previous July 2022 revision. Most notable: Tornado guidance has been moved from the document’s appendix to Sections 2.11-Tornados, 3.12-Tornados and 4.0-References. With this change, tornado-resistant building envelopes, including roof assemblies, and roof-mounted equipment designs are recommended where design tornado wind speed is 140 mph or greater. A map is provided showing Arkansas and Missouri and portions of Alabama, Colorado, Georgia, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Minnesota, Mississippi, Nebraska, Oklahoma, South Dakota, Tennessee and Texas are in a tornado region where the design tornado wind speed is 140 mph or greater. ASCE 7-22’s 10,000-

year mean recurrence interval map is conservatively used.

FM 1-28 provides a calculation method for determining ultimate tornado velocity pressure. FM Global recommends considering a building to be “partially enclosed” and assume a Surface Roughness Exposure C and Importance Factor of 1.15 for calculation purposes. Because this pressure calculation is by the ultimate design method, converting to the allowable stress design method by multiplying by 0.6 and adding a safety factor of 2.0 for new construction is recommended.

FM 1-28 further recommends not using roof aggregate of any type or size in a tornado region other than mineral surfacing for cap sheets and avoiding use of windows in exterior walls. Where windows are necessary and for large exterior doors, impact-resistant windows and doors tested according to FM 4350, “Approval Standard for Windstorm Resistant Fenestrations,” or similar standards are recommended. Full-time inspection during the installation of exterior wall and roof components also is suggested.

FM 1-28 also revises the calculation procedure for vertical forces on roof-mounted equipment to prevent overturning in high winds. Use of FM-approved roof anchors tested according to FM 4881, “Anchors for Roof Mounted Equipment,” are recommended to resist the horizontal and vertical forces calculated.

Finally, a new basic wind speed map, FM 1-28’s Figure 11b, is added and provides basic wind speeds in the Canadian maritime areas of eastern Quebec and New Brunswick, Newfoundland and Labrador, Nova Scotia and Prince Edward Island.

### FM 1-54

FM Global Property Loss Prevention Data Sheet 1-54, “Roof Loads and Drainage,” provides recommendations for snow loads, roof live loads, rain loads and roof drainage for the design of new roofs on buildings and other structures. It also provides recommendations for snow monitoring and removal.

The January revision includes minor editorial changes from the previous July 2023, October 2021 and July 2021 revisions. Significant changes were made in the April 2021 revision.

### Final thoughts

Designers and roofing contractors working on FM Global-

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insured buildings should be aware of FM Global Property Loss Prevention Data Sheets and the latest revisions. FM 1-28's addition of tornado-resistant building envelope construction criteria for FM Global-insured buildings in the tornado region in the central U.S. has a significant effect on building designs.

FM Global's wind loss experience has been more favorable with structural concrete roof decks than steel roof decks. The use of steel roof decks is still possible; however, steel roof decks will need to be designed for higher tornado-resistant loads. Such designs may include narrower joist spacing resulting in shorter steel roof deck spans, use of thicker or deeper steel roof deck, and increased steel roof deck securement to joists or purlins.

In the central U.S., most conventional wind designs are based on relatively low wind speeds (for example,  $V_{ASD}$  equals 90 mph). FM Global indicates cost increases to change from 90-mph wind design construction to FM 1-28's higher tornado-resistant construction will vary based on specific project conditions but could be as high as 50%.

FM Global Property Loss Prevention Data Sheets can be found at [fmglobaldatasheets.com](http://fmglobaldatasheets.com)

By Mark S. Graham, Vice president of NRCA Technical Services  
Professional Roofing Magazine April 2024

### Roofers Union Local #149/RIPF 39th Annual Scholarship Grant Program

In an effort to promote excellence in the roofing industry, Roofers Union Local #149 and the Roofing Industry Promotion Fund are working together to offer scholarship grants to eligible individuals.

The program offers four scholarship grants in the amount of \$1,000.00 each, to those eligible individuals who are attending or planning to enroll at an accepted college or university.

Scholarship Grants are possible through contributions by Roofers Union Local #149, the Roofing Industry Promotion Fund and the participating roofing contractor employer of the recipient's parent or guardian.

Information has been sent to SMRCA/RIPF Contractors. If you need information to submit an essay, please contact the SMRCA office or Roofers Union Local #149.



### New Rule Mandates Labor Agreements for Federal Projects

The Biden-Harris Administration announced a final rule implementing the President's Executive Order 14063 requiring Project Labor Agreements (PLAs) for most large-scale Federal construction projects. According to the White House, this rule will help ensure that large Federal construction projects are completed efficiently and on time, while also supporting high-quality jobs. The rule requires the use of PLAs—a pre-hire collective bargaining agreement unique to construction—for large Federal construction projects, where the total estimated cost to the Federal Government is \$35 million or more (with limited exceptions). By requiring all parties—contractors, subcontractors, and unions—to negotiate set terms that govern project construction, officials report that the rule will lead to increased efficiency.

The PLA final rule could provide nearly 200,000 workers on Federal construction projects the benefit of collectively bargained wages, benefits, and safety protections regardless of union membership. As required by the Executive Order, the Biden-Harris Administration is also publishing a companion guidance document to provide important information to Federal agencies responsible for executing the policy throughout the Government, and to ensure that agencies take full advantage of PLAs on large-scale construction contracts.

Learn more at [www.whitehouse.gov](http://www.whitehouse.gov)

### OSHA Civil Penalty Amounts Adjusted for 2024

The U.S. Department of Labor announced changes to Occupational Safety and Health Administration civil penalty amounts based on cost-of-living adjustments for 2024.

In 2015, Congress passed the Federal Civil Penalties Inflation Adjustment Act Improvements Act to advance the effectiveness of civil monetary penalties and to maintain their deterrent effect. Under the Act, agencies are required to publish "catch-up" rules that adjust the level of civil monetary penalties and make subsequent annual adjustments for inflation no later than January 15 of each year. This year, January 15 fell on a federal holiday. Therefore, new OSHA penalty amounts became effective Jan. 16, 2024.

OSHA's maximum penalties for serious and other-than-serious violations will increase from \$15,625 per violation to \$16,131 per violation. The maximum penalty for willful or repeated violations will increase from \$156,259 per violation to \$161,323 per violation.

[osha.gov](http://osha.gov)

## 2024 SMRCA Golf Outing

2024 SMRCA Annual Golf Outing will be held at  
Twin Lakes Golf Course  
on

**Monday, May 20, 2024**

**Reserve your spot today!**



## Deepest Sympathy



Our deepest sympathy's are extended to  
the family and friends of:

**Robert Brandle**

*Brandle Roofing and Sheet Metal Co.*

**Randy Baisden**

*L.T. Ollesheimer & Son, Inc./SRS Distribution*

## 2024 MiRCA Convention



2024 MiRCA Annual Convention  
will be held at  
Boyer Mountain Resort  
**August 1-4, 2024**

**Make your reservations today!**

## Birthday Wishes



**Bill Borgiel - Lutz Roofing Company, Inc.**  
April 25

**Mark Stasa - Kerr, Russell & Weber, PLC**  
May 7

**Mike Mass - Roofing Products of Michigan, Inc.**  
July 23

**Marie Schena - Schena Roofing & Sheet Metal Co., Inc.**  
July 31

## Upcoming Industry Trade Shows 2024

April 16-17 Roofing Day in D.C. 2024  
Washington, D.C.  
[nrca.net/advocacy/roofingday](http://nrca.net/advocacy/roofingday)

June 5-7 FRSA's 102nd Annual Convention  
Kissimmee, FL  
[floridarooft.com](http://floridarooft.com)

June 26-29 Carolinas Roofing Expo & Annual Meeting  
Myrtle Beach, SC  
[crsmca.org](http://crsmca.org)

## Happy Anniversary



**Jim & Michelle Bieszki - Architectural Building Specialties, Inc.**  
June 4

**Todd & Amanda Sova - National Roofing & Sheet Metal Co., Inc.**  
June 6

**Heather & Chris Hadley - SMRCA**  
June 29

## NRCA Releases 2024 Manual Volume

NRCA has released *The NRCA Roofing Manual: Metal Panel and SPF Roof Systems—2024*. This volume provides comprehensive information about the design, materials and installation techniques applicable to metal panel and spray polyurethane foam roof systems used in low- and steep-slope roof system applications.



This volume is one of four volumes that comprise *The NRCA Roofing Manual*. The 2024 volume of the manual is available at [shop.nrca.net](http://shop.nrca.net)

## Welcome New MiRCA Member

Welcome new MiRCA member!

**Bitec Inc.**  
Eric Fiest  
[www.bi-tec.com](http://www.bi-tec.com)  
Morrilton, AR 72110  
614-370-3081



## U.S. Department of Labor Issues Final Rule to Clarify Rights to Employee Representation During OSHA Inspections

On March 29, 2024, the U.S. Department of Labor published a final rule clarifying the rights of employees to authorize a representative to accompany an Occupational Safety and Health Administration compliance officer during an inspection of their workplace.

The Occupational Safety and Health Act gives the employer and employees the right to authorize a representative to accompany OSHA officials during a workplace inspection. The final rule clarifies that, consistent with the law, workers may authorize another employee to serve as their representative or select a non-employee. For a non-employee representative to accompany the compliance officer in a workplace, they must be reasonably necessary to conduct an effective and thorough inspection.

Consistent with OSHA's historic practice, the rule clarifies that a non-employee representative may be reasonably necessary based upon skills, knowledge or experience. This experience may include knowledge or experience with hazards or conditions in the workplace or similar workplaces, or language or communication skills to ensure an effective and thorough inspection. These revisions better align OSHA's regulation with the OSH Act and enable the agency to conduct more effective inspections. OSHA regulations require no specific qualifications for employer representatives or for employee representatives who are employed by the employer.

The rule is in part a response to a 2017 court decision ruling that the agency's existing regulation, 29 CFR 1903.8(c), only permitted employees of the employer to be authorized as representatives. However, the court acknowledged that the OSH Act does not limit who can serve as an employee representative and that OSHA's historic practice was a "persuasive and valid construction" of the OSH Act. The final rule is the culmination of notice and comment rulemaking that clarifies OSHA's inspection regulation and aligns with OSHA's longstanding construction of the act.

"Worker involvement in the inspection process is essential for thorough and effective inspections and making workplaces safer," said Assistant Secretary for Occupational Safety and Health Doug Parker. "The Occupational Safety and Health Act gives employers and employees equal opportunity for choosing representation during the OSHA inspection process, and this rule returns us to the fair, balanced approach Congress intended."

The rule is effective on May 31, 2024

[www.osha.gov](http://www.osha.gov)

## First Standard on Heat Stress in Construction Published

The American Society of Safety professionals (ASSP) has published the first national voluntary consensus standard addressing heat stress for workers in construction and demolition operations. Hundreds of thousands of workers frequently face outdoor hazards such as high heat and humidity.



ANSI/ASSP A10.50-2024, Heat Stress Management in Construction and Demolition Operations, offers guidance on protecting workers; explains how to acclimate workers to high heat conditions; and provides requirements for training employees and supervisors. The standard contains checklists and flowcharts designed to help companies develop clear and effective heat stress management programs that bridge the regulatory gap. The standard focuses on construction and demolition, but can be adapted to protect workers performing other outdoor jobs.

The A10.50 standard identifies engineering and administrative controls a company can implement to ensure that workers get proper rest, water breaks and shade while still meeting business needs.

The impacts of heat stress can range from mild symptoms such as heat rash and heat cramps to severe conditions including heat exhaustion and heat stroke, which can be fatal. According to the U.S. Bureau of Labor Statistics, more than 400 work-related deaths have been caused by environmental heat exposure since 2011. The standard includes a detailed emergency response plan if a worker has a severe reaction to excessive heat.

For more information: [assp.org](http://assp.org)

## JATC Training Center Happenings

Journeyworkers upgrade classes to improve your skills, your worth, and our Brotherhood/Sisterhood is available at no cost to all Detroit LU 149 members.

Dues must be current in order to enter the Training Center.

If you are interested in any of these classes, contact Thomas Jaranowski at the Training Center, 248-543-3847, or



## EPA Started Review That Could Lead to Ban of PVC

On December 14, 2023, the US Environmental Protection Agency (EPA) announced a review that could potentially lead to the ban of PVC plastic production, as stated by Phys.org.

Vinyl chloride, which is used in the manufacturing and processing of polyvinyl chloride (PVC), was officially classified as a human carcinogen in 1974 and banned in hair sprays, refrigerants, cosmetics and drugs. PVC continues to be widely used to make water lines, siding panels for houses and product packaging, vinyl records and bathtub toys.

An EPA statement on the review, which includes four other chemicals, said the step was “consistent with a commitment from the Biden-Harris Administration to understand and address environmental and toxic exposures” as part of President Joe Biden’s “Cancer Moonshot” initiative.

National, state and city governments across the world have been tightening restrictions on PVC usage and disposal.

The review will be a year-long process that includes a public comment period. By December 2024, the EPA will announce what steps it intends to take, which could be doing nothing, placing additional restrictions on PVC or banning PVC in the U.S.

## Final Rule Issued on Classifying Employees and Independent Contractors

The U.S. Department of Labor has announced the issuance of a final rule to help employers and workers analyze whether a worker is an employee or an independent contractor under the Fair Labor Standards Act (FLSA). The announcement follows a Notice of Proposed Rulemaking on October 13, 2022, which led to thousands of comments from a diverse array of stakeholders that helped inform the regulatory updates.

The final rule, Employee or Independent Contractor Classification Under the FLSA, provides guidance on whether a worker is an employee or independent contractor under the FLSA. Misclassification is a serious issue that denies employees’ rights and protections under federal labor laws and hurts the economy at large. The USDOL believes this final rule will protect workers from misclassification, while at the same time providing a consistent approach for those businesses that engage (or wish to engage) with independent contractors.

[www.dol.gov/agencies/whd/flsa/misclassification/rulemaking](http://www.dol.gov/agencies/whd/flsa/misclassification/rulemaking)

## Court Strikes Down Corporate Transparency Act

On March 1, a federal district judge found the Corporate Transparency Act unconstitutional—a huge advocacy win for NRCA! The Corporate Transparency Act would require more than 32 million businesses—including many NRCA members and roofing industry professionals—to provide sensitive private data to the government to somehow capture the illicit activities of shell companies. With NRCA’s support, the National Small Business Association filed a legal challenge to the law in 2022. In his opinion explaining the decision, Judge Liles Burke wrote: “The CTA exceeds the Constitution’s limits on the legislative branch and lacks a sufficient nexus to any enumerated power to be a necessary or proper means of achieving Congress’ policy goals.”

The Department of Justice is almost certain to appeal this court decision, and NRCA members therefore should remain prepared to be in compliance with the law until further litigation is resolved. However, this ruling will help focus the public, media and lawmakers on the threat the Corporate Transparency Act poses to the privacy of law-abiding Americans and ultimately will help NRCA fight overreaching laws in Congress.

[nrca.net](http://nrca.net)

## Immigration Reform to Address Workforce Shortages

Reps. Lloyd Smucker (R-Pa.) and Henry Cuellar (D-Texas) were recognized at the spring meeting of the National Immigration Forum for their leadership in spearheading bipartisan immigration reform legislation supported by NRCA. Smucker and Cuellar discussed the need for the Essential Workers for Economic Advancement Act (H.R. 3734), a bill they have co-sponsored to address workforce shortages by establishing a new visa program that matches willing employers with temporary workers to meet the urgent needs of the current economy. Additionally, NRCA Vice President of Government Relations Duane Musser participated with other business leaders in a panel discussion to further address the importance of H.R. 3734 and other proposals as solutions to industry workforce needs.

[nrca.net](http://nrca.net)

# SMRCA Spells the Best in Roofing Services

- S**AFETY                      A safe jobsite is assured because SMRCA crews complete the M.U.S.T. Safety Training and Drug Testing.
- M**ULTIPLE SERVICES      A SMRCA Roofing Contractor has the ability to provide the roof you need because of our expertise in a variety of roofing applications and techniques.
- R**ELIABLE                     SMRCA Contractors are Union trained professionals bringing an Industry leading standard of service, quality and knowledge to every project.
- C**ONFIDENCE                Projects completed by SMRCA Contractors provide a Michigan roofing contractor 2 year standard workmanship warranty.
- A**CCOUNTABILITY          SMRCA Contractors are established companies with years of experience in providing responsive service, superior workmanship and exceptional value.

Call us today at 586-759-2140 to receive our free "Roofing Facts" brochure or contact one of the SMRCA Contractors below for a no-cost estimate on your next roofing project.

## Southeastern Michigan Roofing Contractors Association Members

### **T. F. BECK COMPANY**

Rochester Hills, MI  
(248) 852-9255  
www.tfbeck.com

### **LUTZ ROOFING COMPANY, INC.**

Shelby Twp., MI  
(586) 739-1148  
www.lutzroofing.com

### **ROYAL ROOFING COMPANY**

Orion, MI  
(248) 276-ROOF (7663)  
www.royal-roofing.com

### **J. D. CANDLER ROOFING CO., INC.**

Sterling Heights, MI  
(734) 762-0100  
www.jdcandler.com

### **M.W. MORSS ROOFING, INC.**

Romulus, MI  
(734) 942-0840  
www.morssroofing.com

### **SCHENA ROOFING & SHEET METAL CO., INC.**

Chesterfield, MI  
(586) 949-4777  
www.schenarroofing.com

### **CHRISTEN/DETROIT**

St. Clair Shores, MI  
(313) 837-1420  
www.cdetroit.com

### **NEWTON CRANE ROOFING, INC.**

Pontiac, MI  
(248) 332-3021  
www.newtoncraneroofing.com

### **SCHREIBER CORPORATION**

Wixom, MI  
(248) 926-1500  
www.schreiberroofing.com

### **DETROIT CORNICE & SLATE COMPANY**

Ferndale, MI  
(248) 398-7690  
www.detroitcorniceandslate.com

### **NORTH ROOFING COMPANY**

Auburn Hills, MI  
(248) 373-1500  
www.northroofing.com

### **LADUKE ROOFING & SHEET METAL**

Oak Park, MI  
(248) 414-6600  
www.ladukeroofing.com

### **DAVE POMAVILLE & SONS, INC.**

Warren, MI  
(586) 755-6030  
www.PomavilleRoofing.com



www.smrca.org