

# CRCA TODAY

SUMMER 2023

The Magazine  
of Roofing and  
Waterproofing  
in Illinois  
and Beyond

**ASCE 7-16: Part 3**

**Powered Industrial Lift Truck Safety**

**Seeded Green Roofs**

**Learn From Near Misses**

**OSHA Fines—Close to Home**



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**Online:** Archived *CRCA Today* available at <http://www.crca.org>, Magazine.

**On the Cover:** Photo courtesy of CRCA Contractor MidAmerica Roofing, Inc. and Associate Members Gemco and Elevate / S.J. Mallein & Assoc.

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SUMMER 2023

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# Lift Truck Safety Is No Laughing Matter

By CRCA Staff

## Why Is Forklift Safety Important?

A great deal of roofing industry safety training is aimed at fall prevention and rightfully so. A recent NRCA article noted that, *“Fall deaths from roofing workers account for about 20% of construction deaths and a whopping 84% of roofing industry deaths. As a result, it is a foregone conclusion that roofing contractors will continue to be the target of scrutiny by the Occupational Safety and Health Administration and oversight by the insurance industry. (Professional Roofing, May 2021, Rich Trewyn).* The article went on to state that the roofing industry was cited for almost \$20 million in OSHA penalties in 2020, with close to \$13 million related to fall protection. But what about injuries closer to the ground?

Many years ago, CRCA used a satirical training video during the Friday January Trade Show Safety Seminar. This educational session used video footage to illustrate how easy accidents can happen when using Powered Industrial Lift Trucks (aka Forklifts.) While the video creators used characters similar to “Crash Car Dummies”, the gasps in the audience were loud and clear when the simulated accidents occurred on screen. The training, though cartoonish, put a real-life spin on how easy these accidents happen and the consequences. The CRCA Safety Committee then provided training on what is expected of employers and best practices on safety and accident prevention. Fast forward almost 15 years and CRCA’s leadership is again making Powered Industrial Lift Truck safety education front and center!

This piece of machinery is essential to many who install roofing and those who supply the materials used in the process. It can easily weigh up to 10,000 pounds, which is as much as a mid-sized car. Most electric forklifts have a top speed of 8 miles per-hour, but diesel-powered ones can reach speeds almost two times that.

The Bureau of Labor Statistics (BLS) estimated that approximately 8,500-9,000 non-fatal forklift accidents occur annually (Bureau of Labor Statistics, 2017). Major risk factor categories include user, mechanical and work environment. The resulting accidents include:

1. Struck By Accidents—collision with pedestrians.
2. Collisions—colliding with other machinery, racks, and other structures.
3. Overturns—caused by improper turning, driving too fast and poor maintenance.

The BLS has estimated that 1% of forklift accidents result in a fatality. In fact, some statistics point to forklift accidents as the contributing factor in the most workplace deaths in the US annually. Per the Centers for Disease Control and Prevention (CDC), most are the result of *being crushed by an overturned forklift or falls from a loading dock.*

## Safety Education

Failure to provide proper training and implementation in areas such as maintenance and usage cause needless injuries and fatalities and cost employers millions of dollars each year. What OSHA standards have been developed for this training as a result?

OSHA has developed standards for powered industrial trucks (such as low- and high-lift trucks and forklift trucks) [29 CFR\* 1910.178] and for forklifts used in the construction industry [29 CFR 1926.600; 1926.602] and include these three areas of emphasis:

1. **Training**—[29 CFR 1910.178(l)], which became effective March 1, 1999, requires operator training and licensing as well as periodic evaluations of operator performance. It also addresses specific training requirements for truck operation, loading, seat belts, overhead protective structures, alarms, and



maintenance of industrial trucks. Refresher training is required if the operator is observed operating the truck in an unsafe manner, is involved in an accident or near miss, or is assigned a different type of truck.

2. **Maintenance**—[29 CFR 1910.178(q)(7)] requires that industrial trucks be examined before being placed in service. Upon inspection, to be made at least daily or after each shift, if any condition is adversely affecting the safety of the vehicle, it should not be used until reported and corrected.
3. **Operation**—OSHA requirements for forklift operation are as follows:
  - [29 CFR 1910.178 (n)(7)(iii)]—the tilt of the forks and load engaging
  - [29 CFR 1910.178 (n)(8)]—speed
  - [29 CFR 1910.178 (n)(4)]—horn use
  - [29 CFR 1910.178(n)(6)]—clear view of travel path
  - [29 CFR 1910.178 (m)(3)]—authorized use by personnel
  - [29 1910.178 (m)(1)]—not driving near fixed objects or people

## How to Protect Yourself

Below are a few of the forklift accident prevention tips provided by the CDC for those who operate or work near this machinery. Visit <https://www.cdc.gov/niosh/docs/2001-109/> to learn more:

- Use seatbelts if available.
- Report any damage or operational issues to a forklift during your shift.
- Don't raise or lower the forks while moving.
- Slow down and sound the horn at cross aisles where vision is obstructed.
- Don't use to elevate workers who are standing on the forks.
- Don't handle loads that are heavier than the weight capacity allows.
- **Don't operate unless trained and licensed.**


## Training / Certification Process

Only trained and competent operators shall be permitted to operate a powered industrial truck and must be certified. What does this involve per the OSHA standard?

The standard requires employers to develop and implement a training program based on the general principles of safe truck operation, the types of vehicle(s) being used in the workplace, the hazards of the workplace created by the use of the vehicle(s), and the general safety requirements of the OSHA standard.

Formal instruction and practical demonstration must be completed, and employers must certify that each operator has received the training and be evaluated at least once every three years. Criteria to be covered include operating instructions, instrumentation, steering, fork use, vehicle stability, workplace hazards and much more.

Where to get trained? Visit the internet and there are a multitude of training vendors that will gladly help out. CRCA's Health and Safety Committee's mission is to provide health and safety resources to the roofing community through CRCA *Today* articles, training at the annual CRCA Trade Show & Seminars and through member events. Earlier this year, CRCA's leadership earmarked Powered Lift Truck safety as a 2023 priority. CRCA members will have two important opportunities this fall to register for the required education and certification. These important sessions are sponsored by CRCA's Chicagoland Women in Roofing Committee (CWIR) and *FREE* to members. Register early as there will be a limit for attendees from member companies.

Not a CRCA member yet? Contact [info@crca.org](mailto:info@crca.org) to learn more about membership and what CRCA has to offer to those that install roofing and waterproofing and those who provide the products, equipment, and services to this industry! 

## Resources:

- [https://www.safetyvideos.com/forklift-accidents#Why\\_is\\_Forklift\\_Safety\\_Important](https://www.safetyvideos.com/forklift-accidents#Why_is_Forklift_Safety_Important)
- <https://www.cdc.gov/niosh/docs/2001-109/>
- <https://www.sip.net/3-most-common-forklift-accidents-and-how-to-avoid-them/#:~:text=Common%20causes%20include%20improper%20turning,too%20fast%2C%20and%20poor%20maintenance.>
- [https://www.safetyvideos.com/forklift-accidents#Why\\_is\\_Forklift\\_Safety\\_Important](https://www.safetyvideos.com/forklift-accidents#Why_is_Forklift_Safety_Important)
- <https://www.osha.gov/powerful-industrial-trucks>
- <https://www.professionalroofing.net/Articles/The-frequency-of-falls-05-01-2021/4879>

# Legal Updates You Need to Know



Philip Siegel

A big thanks to CRCA Member Hendrick Phillips Salzman & Siegel, PC, who provides periodic updates to CRCA members and others in the construction industry. For more information, visit [www.hpsslaw.com](http://www.hpsslaw.com).

## Independent Contractor Test

In 2019, the NLRB issued its decision in the SuperShuttle DFW, Inc. case, emphasizing the importance of entrepreneurial opportunity in applying the traditional multi-factor test for determining whether workers should be classified as employees or independent contractors, reversing existing precedent which had favored classification as employees, and therefore unionization. On June 13, the NLRB once again reversed course, demonstrating a clear preference of the current administration toward potential unionization.

In the Atlanta Opera decision, the NLRB held that the traditional multi-factor test must be applied, and that entrepreneurship was no longer to be viewed as an “animating principle”. Rather, the Board will evaluate whether workers are properly classified as independent contractors in light of all of the traditional common law principles, with no one factor being decisive. Based on the consideration of all the factors in this case, the Board determined that the stylists were employees and not independent contractors and therefore had the right to unionize.

This decision continues the pattern of NLRB decisions adhering to political preferences of the particular administration in power. Note, however, that NLRB decisions are subject to appeal and the D.C. Circuit, which has jurisdiction over NLRB decisions, has previously ruled against the standard applied in this case on more than one occasion, as it favors the emphasis on entrepreneurial opportunity used in the SuperShuttle case. Note also that the dissent in the Atlanta Opera case argued that there was no need to overturn the SuperShuttle standard, because the facts were such that the Atlanta Opera workers would be found to be employees even under that standard.



HENDRICK PHILLIPS  
SALZMAN & SIEGEL<sup>PC</sup>  
ATTORNEYS AT LAW

Litigation on these issues is expected to continue. In the meantime, employers need to be aware of the standards that are now being applied, especially in light of the emphasis being demonstrated by the Board and its general counsel. Attention should be paid to whether workers are properly classified as independent contractors, and adjustments should be made where necessary. As we noted in our update re the SuperShuttle case, these decisions do not necessarily impact DOL and income tax issues related to worker classification. The Opera decision does indicate the emphasis of the administration in general, which is clearly in favor of union employees and against employers’ business interests.

## What’s Happening with OSHA?

On May 1, OSHA began a National Emphasis Program focused on reducing fall-related injuries and fatalities . . . and is of particular importance to roofing contractors. Under the Program, OSHA compliance officers are authorized to stop and conduct an inspection anytime they see someone working from heights. There is no requirement that the OSHA compliant officer first observe a violation or imminent danger. Of course, this means roofing contractors can expect an increase in OSHA inspections. Be sure your supervisory employees in the field know how to respond if an OSHA compliance officer arrives on site.

**OSHA is also moving forward with its final rule on its electronic tracking of workplace injuries and illnesses.** OSHA provided its final rule to the Office of Information and Regulatory Affairs, which is the next step in the process to publishing a final rule. The final rule proposed by OSHA is anticipated to require establishments with 100 or more employees in certain designated industries, including construction, to annually electronically submit information from their OSHA 300, 301, and 300A.

**OSHA also remains committed to publishing a workplace rule to address heat-related illnesses.** They are in the process of gathering input from diverse stakeholders and experts. On May 31, the National Advisory Committee on Occupational Safety and Health (“NACOSH”) discussed a report from its Heat Work Group on proposed recommendations regarding potential elements of a rule. NACOSH accepted a motion to forward those recommendations to OSHA, along with a sample exposure control plan/heat illness prevention plan.


**OSHA recently initiated a Small Business Regulatory Enforcement Fairness Act panel** review, the next step before a proposed standard is published. While we wait for a rule to be published, contractors are reminded to provide sufficient training and to develop and implement a written Heat Illness Prevention Plan, in accordance with OSHA’s published guidance. Need assistance preparing a Heat Illness Prevention Plan consistent with OSHA’s published guidance? Contact [pjs@hpsf-law.com](mailto:pjs@hpsf-law.com).

**New I-9 Form Required**

Employers will now be required to utilize revised I-9 form per the U.S. Citizenship and Immigration Services (USCIS) announcement on August 1, 2023. According to USCIS,

the new form is designed to be more user friendly, is a single page and is mobile friendly. The new form can be found at <https://www.uscis.gov/sites/default/files/document/forms/i-9.pdf>.

While employers can continue to use the old form, the deadline for the new form is November 1, 2023.

The U.S. Dept. of Homeland Security (DHS) also began implementing an optional procedure on August 1, 2023 to which allows employers to examine employee documents remotely to satisfy this portion of the I-9 process. Previously, employers were required to examine documents in person within three days of employment. To be eligible for the optional alternative remote employment verification procedure, employers must be enrolled in E-Verify and remain in good standing and compliance with all requirements of the E-Verify program. To learn more, visit <https://www.uscis.gov/i-9-central/remote-examination-of-documents>, or contact [pjs@hpsf-law.com](mailto:pjs@hpsf-law.com). 



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# Why Are There “Near Misses” In the Roofing Industry?

By Kevin Froeter



Kevin Froeter

When near-misses happen, our first response is usually a sigh of relief. We acknowledge how bad that could have been and then often just go on with our lives. There may have been a momentary thanks to the heavens, but typically, that’s the extent of our actions.

The reality of the situation is that the near-miss should never have occurred. Nowhere in a properly written safety plan is there a section on near-misses and what to do when they happen. But we cannot ignore these important safety warnings.

To fully understand the importance of a near-miss, the roofing industry needs to learn how OSHA defines these incidents, the steps to take once a near-miss occurs and how to develop a safety culture that includes documenting near-misses and learning from them with the goal of preventing in the future.

## What Is a Near-Miss?

Near-misses are either a failure in your safety program, the execution of it or the monitoring of it. OSHA takes it a step further and defines as “A near-miss is a potential hazard or incident in which no property was damaged, and no personal injury was sustained, but where, given a slight shift in time or position, damage or injury easily could have occurred.” The terms “near accident”, “close call” or “narrow escape” can be inserted here. Contractor examples include a worker stumbling over misplaced roofing tools on the job site while not wearing any safety equipment, teetering on pallets or roofing materials while being used to access a higher elevation instead of a properly placed ladder or landing on but no falling through unmarked marked skylights. For warehouse workers, near-misses could include needing to slam on the forklift brakes to avoid hitting another worker


in its path, hydroplaning on an oily spill that was not completely cleaned up or stacking materials uneven on overhead racks.

## Steps to Take

It is important to note that in the near-miss examples above, the incidents have the potential to cause injury, illness or death but did not. What about next time? When near-misses occur, they need to be taken seriously and dealt with at that moment. Use the following steps to educate your workers to prevent the “next time”:

- **REPORT**—Workers must report all workplace near-misses to their immediate supervisor as soon as possible. Visit [osha.gov](https://www.osha.gov) to download reporting templates. All near-misses should be reviewed by company management to identify system weaknesses that resulting in the incident. These in turn should be used to improve safety systems, hazard control, risk reduction and employee education.
- **IDENTIFY**—Use this key step to improve health and safety in the workplace by learning what specifically went wrong. Acknowledge and document potential hazards reported by employees. Include this information in your safety manual and also include non-retaliation language to encourage workers to report with the ultimate goal of learning from the error and correcting.
- **TRACK**—Near-misses are a valuable source of information and needs to be documented and reviewed. This important step helps employers proactively identify negative trends and monitor the success of improved safety controls and measures. What went wrong? Why was the company safety policy not followed? What can we do better?
- **COMMUNICATE**—Use the information gained from the near-miss to improve workplace safety by sharing with employees during management / employee discussions, public postings such as bulletin board notices, company email or even during Toolbox Talks or other interactive safety meetings. Learn from the “what could have happened.”

In conclusion, near-misses are just as important to document as actual accidents. If we just brush this off to a lucky day, we are destined to have this reoccur and the outcome may not be as favorable.

Try to understand what the circumstances were that allowed the near-miss to happen and immediately implement new measures to prevent it from happening again. All members of your team need to be made aware of this situation. Identify and communicate what happened, how it happened and what measures are being put into place to prevent this from happening again. How can we do better and recognize when implemented change creates a safer working environment, both on the roof and on the ground. 

*Kevin Froeter is President of Sterling Commercial Roofing Inc., is CRCA's 2<sup>nd</sup> VP and serves as Co-Chair of CRCA's Health and Safety Committee. He started his roofing career in 1974, working for his father and has stayed in the industry to this day, overseeing all aspects of the company.*



### OSHA Requirements in the Case of Injury or Death

OSHA requires employers to keep records of certain injuries and illnesses and to report certain workplace incidents to OSHA within specific time periods through an OSHA 300 log. All employers under OSHA jurisdiction must report these incidents to OSHA, even employers who are exempt from routinely keeping OSHA records due to company size or industry.

- In the case of a Fatality or Severe Injury: All employers are required to notify OSHA when an employee is killed on the job or suffers a work-related hospitalization, amputation or loss of an eye by contacting the nearest OSHA office or 1-800-321-6742.
- A fatality must be reported within 8 hours. If a temporary worker, similar to the requirements in section 1904.31 for recording injuries and illnesses, the employer that provides the day-to-day supervision of the worker must report to OSHA any work-related incident resulting in a fatality, in-patient hospitalization, amputation, or loss of an eye.
- An in-patient hospitalization, amputation or eye loss must be reported within 24 hours. OSHA defines *in-patient hospitalization* as a formal admission to the in-patient service of a hospital or clinic for care or treatment. Treatment in an Emergency Room only is not reportable.
- If a fatality occurs within 30 days of the work-related incident, or if an in-patient hospitalization, amputation, or loss of an eye occurs within 24 hours of the work-related incident, then you must report the event to OSHA.

To learn more, visit [osha.gov/report](https://www.osha.gov/report) or [osha.gov/sites/default/files/2018-12/fy11\\_sh-22246-11\\_OSHAForm300.pdf](https://www.osha.gov/sites/default/files/2018-12/fy11_sh-22246-11_OSHAForm300.pdf)

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# Seeded Green Roofs: A Simple, Cost-Beneficial Way to Bring Nature into the Built Environment

By Michael Davenport and Samuel Irwin



Michael Davenport



Samuel Irwin

**T**here are many ways to vegetate a built-in-place green roof. Once the protective layers, drainage component, irrigation, and media substrate are installed, a green roof can be seeded, laid over with pre-vegetated mats of sedum and other species, or planted with container material from small plants right through to shrubs and even trees! Today, we will look at seeded green roofs and why this option is becoming increasingly popular due to their reduced cost and increased biodiversity.

## Seeding Green Roofs—Not a New Idea

It is fair to imagine that even in ancient applications of green roofs (think Hanging Gardens of Babylon), that seeds would have been utilized, either on their own, or in addition to transplanted plant material. The green roof movement in United States over the last 40+ years has leaned towards pre-grown trays and mats. This is likely to have been led by clients' desire for instant gratification and perhaps fear of installing contractors not having horticultural expertise. There are benefits to these types of systems and on certain projects, they may still be the best option—but not always. Establishing a green roof from seed is quite simple and provided the right considerations have been made during the project's design and planning phase, should not intimidate a roofing contractor or building owner.

## Greater Protection

By having a wider range of plant species, easily achievable with the right seed mix, a green roof has greater protection from catastrophic failures such as drought, insect pests, damage from geese, and diseases. The more species established on the green roof, the greater the resiliency of the overall system. Green roof repair can be simpler as well. If an area is destroyed by foot traffic by tradesmen working on another part of the building, broadcasting seed is an inexpensive way to get plant material reestablished. Diverse plantings with many native plants also promote biodiversity, supporting local pollinator populations and offering habitat for various resident and migratory birds.

## Time

Seeding a green roof takes far less time than installing live plants like pre-vegetated mats or nursery container material. No planting means less crane time, fewer labor hours, and no need for temperature-controlled trucks simplifying logistics and staffing needs, while reducing both the costs and carbon footprint of the installation. Live plantings may offer immediate gratification, but if installed in spring or summer, a seeded meadow will germinate quickly and achieve full vegetative coverage with many species blooming in about 6-8 weeks. An autumn



installation in the Chicago area of a seeded meadow may not have such quick vegetative coverage and may need to be supplemented with a cover crop (typically wheat) and erosion control blankets but will be primed to explode the following spring.

### Water Is Key

All plants, even drought-tolerant species, need water. Plant failure is common on unirrigated green roofs which typically have shallow, fast draining growing media. An irrigation system should be considered for any green roof, and a seeded green roof is no exception. Seedlings absolutely require steady moisture during the germination and establishment phase to ensure success. Non-irrigated green roofs are commonly installed with the expectation that the building's facilities staff will hand-water the plants in drought conditions. Far too often, that watering does not occur until after plants have declined to the point where they cannot recover adequately, if at all. Green roofs, without nominal vegetative coverage, are likely to suffer from wind erosion which is the first step towards total failure exposing underlying materials that can fly off the roof.

A roofing contractor may reasonably ask, "We're not a landscaping company. Now we're supposed to install irrigation?" The state requires all irrigation system installation and maintenance to be performed by irrigation contractors licensed with the Illinois Department of Public Health. Unless a roofing contractor was installing green roofs regularly, it would make sense for them to subcontract an irrigation system installation rather than train staff and secure licensing. Fortunately, Chicago is one of the centers of green roof construction in North

America and there are many irrigation contractors who are experienced in designing and building cost-effective irrigation systems for rooftops with readily available components. With an industry-wide trend towards specifying green infrastructure that supports more biodiversity, specifications that include irrigation will most certainly increase in future years.

### Maintenance

A seeded meadow is surprisingly easy to maintain. Weed control lessens as the meadow matures and plant species figure out where they are happiest. Even on a flat roof, you will find areas that are wetter or less exposed than others, so plant diversity remains high. Inputs are minimal. If dried plant material is recycled back into the system, there is little need for fertilizer, plants re-seed into appropriate areas, and irrigation demands are far less than you would expect for a diverse planting, certainly less than a lawn. Green roof maintenance teams are often thrilled to see the wildlife that shows up on these roofs. Last summer a monarch butterfly was spotted on the 20<sup>th</sup> floor of a building in Chicago's West Loop, feeding away, seemingly oblivious to the bustling cityscape all around.


A green roof maintenance provider should have basic landscaping skills, the ability to identify weeds, and an irrigation contractor license. Omni recommends monthly maintenance visits at minimum for green roofs in Chicago, April through October. If a roofing contractor decided to go full steam into maintaining green roofs, they could probably staff it with seasonal labor led by a full-time horticulturist. Although there are many green roof installers in the Chicago area, there seems to be a lack of competent maintenance providers. Some landscaping companies are beginning to fill the void, but there is certainly room for roofing contractors to grab market share. Green Roofs for Healthy Cities, the industry's trade association, offers many online training opportunities including courses in maintenance. Manufacturers should be offering guidance on this topic as well.

Here in Chicago, we know of a green roof that was established from seed and now has 87 plant species living on the green roof. It cannot be overstated that a green roof with this much biodiversity brings so many more benefits to the building it is installed upon and the surrounding area. For the green roof industry to have a meaningful and lasting impact on the built environment, and the humans that occupy it, the focus needs to shift to aiming high when it comes to biodiversity. A seeded green roof is certainly one of the simplest effective options.

In discussing the importance of green roofing, Jeanne Gang, Founding Principal and Partner of Studio Gang



stated: "With more than fifty species planted on top of a historic building, our mini prairie functions more as thriving ecosystem than a green roof, creating food and habitat for birds butterflies, insects, fungi, and now people."

While a seeded roof may not be the right option for every project, they sure are worth considering! There are many associate members in the CRCA that have bountiful expertise on these matters. Use your association contacts! 

Sam Irwin is Director of Business Development of Omni Rewild™, a CRCA Associate Member firm that integrates science and design into working landscapes, improving resiliency within the built environment and empowering healthier, happier humans.

He uses his creative edge and communication skills to connect people with their ideal Omni system and cultivate and maintain client relationships. Irwin has ample experience in construction supply gained through years of representing plumbing, timber, and recruitment companies in New Zealand.

Michael Bukka Davenport is the Director of Technical Support for Omni Rewild™ and brings more than 30 years of horticulture experience and a deep knowledge of plants to the team. Born in California and raised

in New Jersey, he has gardened almost everywhere in between, from rural Oregon to New York's Central Park. Formerly the Curator of Horticulture at Chicago's Lincoln Park Zoo and Director of Horticulture at Fairchild Tropical Botanic Garden in Miami, Davenport sees innovative engineered landscapes as revolutionary, the new frontier in horticulture.

To learn more, contact [sirwin@omniecosystems.com](mailto:sirwin@omniecosystems.com) or [mdavenport@omniecosystems.com](mailto:mdavenport@omniecosystems.com).

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# ASCE 7-16 . . . Still Confused: Continued Again You've Got Design Wind Loads, What's Next?

By Joan Crowe, AIA



Joan Crowe, AIA

**M**y previous article explained how to obtain the design wind loads you'll need to comply with building code. This article will discuss where to find wind-rated roofing assemblies, as well as, example project that covers some application concepts. Also, I am going to focus on mechanically-attached roof systems and buildings less than 60 ft. in height, as these capture the more common projects.

The primary method for determining a roof system's wind uplift resistance—aka, capacity—is through physical testing. A roof system's tested wind uplift resistance capacity is often referred to as the "wind rating." The tested wind uplift resistance capacity of a roof system should be equal to or greater than the calculated design wind uplift loads.

The 2009, 2012, 2015, 2018, and 2021 versions of the International Building Code (IBC) require roof assemblies be tested in accordance with the following test standards:

- FM 4474, "American National Standard for Evaluating the Simulated Wind Uplift Resistance of Roof Assemblies Using Static Positive and/or Negative Differential Pressures"
- UL 580, "Standard for Tests for Uplift Resistance of Roof Assemblies"
- UL 1897, "Standard for Uplift Tests for Roof Covering Systems"

Most manufacturers use the FM 4474 test method and I sometimes think that contributes as to why many think anything "FM" is a code requirement.

Wind ratings for tested roof systems can be found in approval listings. These are the most commonly used listing services:

| Listing Service                               | Roof System Identifier    | Wind Rating Term                 |
|---|---------------------------|----------------------------------|
| FM's RoofNav                                  | "RoofNav Assembly" Number | Wind Uplift                      |
| UL's Product iQ                               | "TGIK" Number             | Uplift Resistance                |
| SPRI's Directory of Roofing Assemblies (DORA) | "ID" Number               | Tested Wind Uplift Load Capacity |

The majority of wind uplift ratings are determined by FM 4474 testing. FM 4474 prescribes that wind ratings be tested in increments of 15 pounds per sq. ft. (psf). So for example, a 60 psf rating means the roof failed in testing somewhere between 60 to 74 psf, and a 1-75 rating indicates a roof failed between 75 to 89 psf.

## Perimeter and Corner Zones

ASCE 7, "Minimum Design Loads For Buildings and Other Structures" requires that you determine design wind uplift pressures for different roof zones. Annoyingly, the 2016 edition further complicated it by introducing the potential to have four roof zones with buildings less than 60 ft. Figure 1 depicts how the sizes of Zone 1' (interior field), Zone 1 (exterior field), Zone 2 (perimeter) and Zone 3 (corner) are determined.

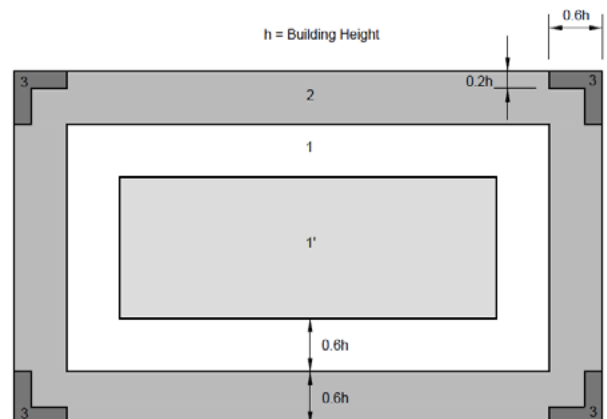


Figure 1: Roof zone layout for buildings  $\leq 60$  ft.

One of the most common question that I get is how to deal with the different roof zones, particularly the perimeters and corners. These are two methods typically used to address perimeter (Zone 2) and corner (Zone 3) zones:

- Performance-based
- Prescriptive enhancement

**Performance-based:** This approach is where you select a roofing system with a wind uplift rating that is applicable for Zones 1, 2 and 3. This is the most reliable method to ensure building code compliance. This approach includes:

- Using a combination of multiple wind ratings that are applicable for the respective roof zone, or
- Using a roof system throughout the entire roof area that has a wind rating adequate for Zone 3.

**Prescriptive Enhancement:** This approach originates from FM Global Property Loss Prevention Data Sheet 1-29, "Roof Deck Securement and Above-Deck Roof Components" (FM 1-29) and is a widely accepted practice.

For mechanically-attached roof membranes, FM 1-29 prescribes that the distance between fastener rows in Zone 2 and Zone 3 may be reduced as follows:

- Zone 2: the distance between rows is no more than 67% of the FM approved spacing for the Zone 1 wind rating, or one row of intermediate fasteners is provided in between.
- Zone 3: the distance between rows is no more than 50% of the FM approved spacing for the Zone 1 wind rating, or one row of intermediate fasteners is provided in between.

Keep in mind that FM limits when you can use prescriptive enhancements. The required wind rating for Zone 1 can only be 90 psf or less, and the building cannot be located in a tropical, cyclone-prone region.

And most importantly, it should be verified if the prescriptive enhancement method is acceptable with the Authority Having Jurisdiction (AHJ).

### Example Project

Our example will be an office building located in the West Loop with the following attributes:

- Building height: 60 ft.
- Building width: 200 ft.
- Building length: 400 ft.
- Building location: Chicago

- Risk Category: II
- Exposure Category: Exposure B
- Enclosure Category: Enclosed

Using that criteria, the following table contains the wind uplift pressures in Allowable Stress Design (ASD) values which were calculated using ASCE 7-16. Then I applied a safety of factor of 2 to those values to get design wind uplift pressures, which in turn, were used to determine the appropriate wind ratings.

| Zone    | ASD wind uplift pressures | Design wind uplift pressures, with safety factor (ASD values x SF=2) | Wind Rating |
|---------|---------------------------|--|-------------|
| Zone 1' | 13.7 psf                  | 27.4 psf   | 60 psf      |
| Zone 1  | 23.9 psf                  | 57.8 psf   | 60 psf      |
| Zone 2  | 31.5 psf                  | 63.0 psf   | 75 psf      |
| Zone 3  | 42.9 psf                  | 85.8 psf   | 90 psf      |

Note: 60 psf is the lowest wind rating determined for roof systems.

### Roof Zone Layout

Figure 2 is how the roof zones look for this example.

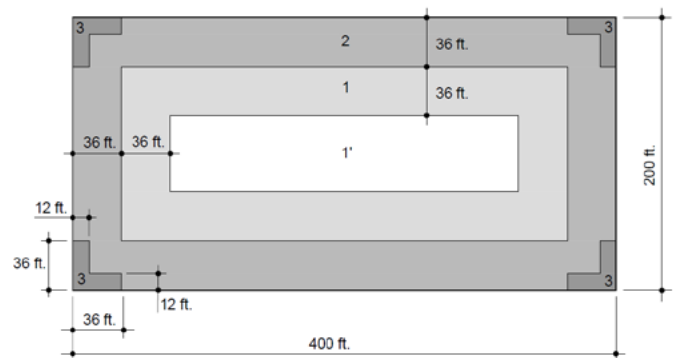


Figure 2: Roof zone layout for a 60 ft. tall building, 200 ft. by 400 ft.

For this building, let's say there is a Type B steel deck and we want a mechanically-attached 45 mil TPO, 10 ft. wide membrane with two layers of polyisocyanurate insulation. Now let's dive into the different approaches.

### Prescriptive Enhancement

My example project will go over the Prescriptive Enhancement method in more detail, but please remember, the AHJ needs to approve this method.

First, we need to find a roof system that meets the minimum requirements for Zone 1, which is 60 psf. I searched DORA for roof systems using a mechanically-attached 10 ft. wide TPO membrane sheet. There are many choices by all manufacturers and the majority of them have an in-seam fastening spacing of 12 inches o.c.

Using the FM 1-29 parameters, we just need an additional row of fasteners in Zones 2 and 3, not to exceed 67% or 50% respectively, of the fastener row spacing required for Zone 1. This can be accomplished by using half sheets. Zone 2 is 36 ft. wide, so 8 rows of half sheets are needed for a 60 ft. tall building.

When it comes down to the actual installation, I suggest using a modified version of “picture framing.” Traditional picture framing is applying half sheets around the building’s perimeter and the sheets overlap, so you have a double layer of membrane at the corners. This can mean a substantial amount of excess membrane, especially with a 60 ft. tall building. A modified approach is where one set of half sheet rows is stopped at the leading edge of the opposing rows of half sheets, see Figure 3.

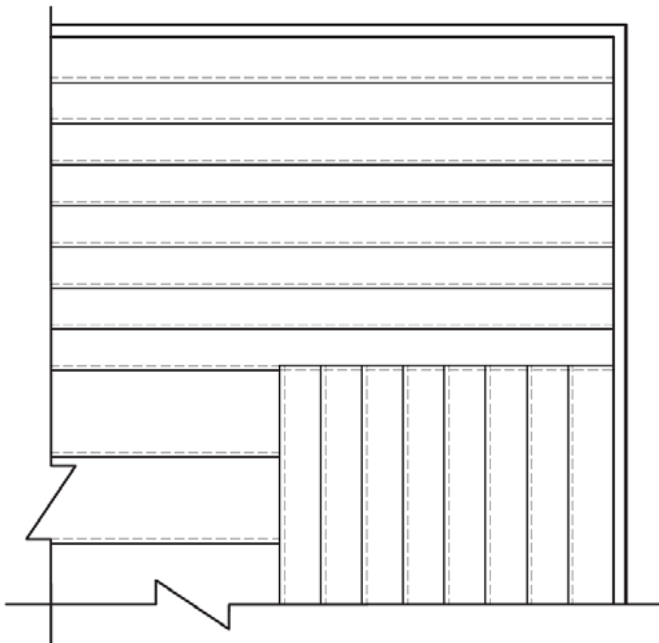
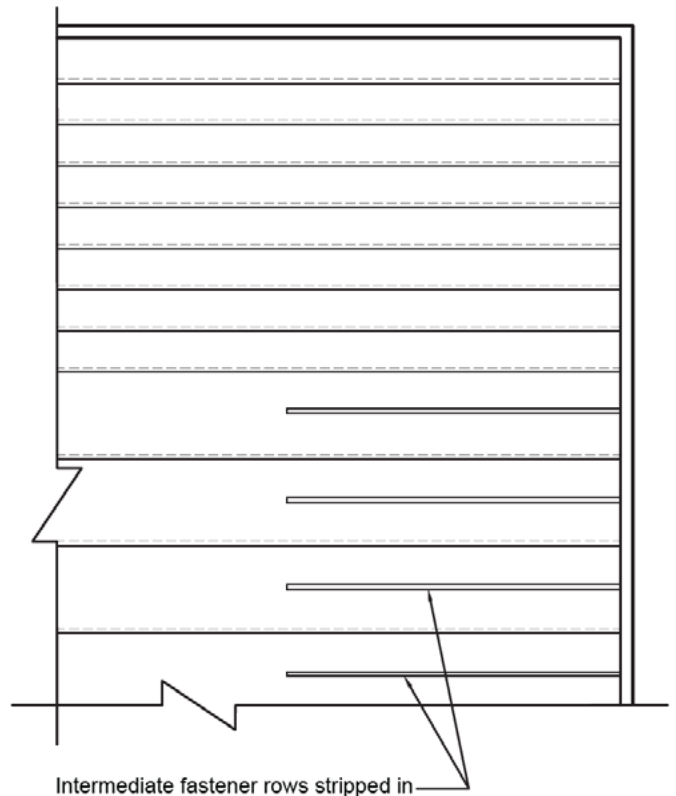


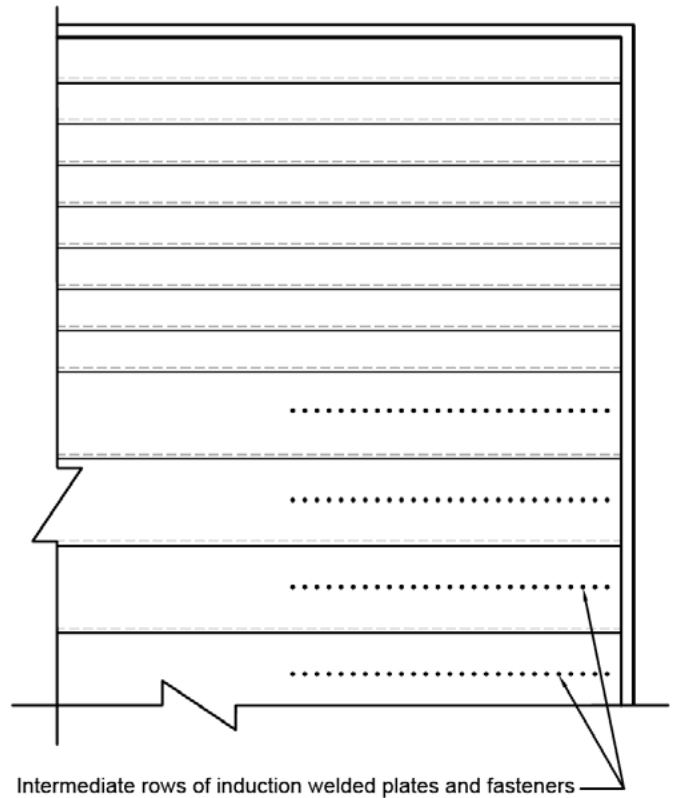
Figure 3: Example of modified picture framing

However, it is important to note that for the half sheets installed parallel to steel deck flutes, the fasteners are located along the length of a single flange in the steel deck. It is preferable, or may be required, that the fastener rows run perpendicular to the steel deck flutes. To address this situation, half sheets may be just installed perpendicular to steel deck flutes. And in the perimeter zones (Zone 2) without half sheets, intermediate rows of fasteners are used. The intermediate rows may be fasteners that are stripped in (a.k.a., fingers) or fasteners with induction welded plates (RhinoBond®). See Figures 4 and 5.



Intermediate fastener rows stripped in

Figure 4: Example of stripped in intermediate fastener rows



Intermediate rows of induction welded plates and fasteners

Figure 5: Example of intermediate fastener rows of induction welded plates and fasteners

And notice that you aren’t seeing any “L-shape” configurations in Figures 3, 4 and 5. These layouts adhere to the two FM requirements for prescriptive enhancement:



the fastener spacing is no more than 50% of the FM approved spacing needed for the Zone 1 wind rating; or one row of intermediate fasteners is provided in between.

### Performance-Based Method

As previously mentioned, there are two options in the performance-based method:


- Option 1: Using a combination of multiple wind ratings that are applicable for the respective roof zone,
- Option 2: Using a roof system throughout the entire roof area that has a wind rating adequate for Zone 3.

Option 1 might require that you use different fastener and/or row spacing in the different roof zones. This is often viewed as confusing and impractical, especially with the “L-shaped” corner zones.

Option 2 would make installation simple, because the same fastening pattern is used on the entire roof. This might be a reasonable choice for a short, small building. But for a majority of buildings, this is typically not desired because it costs more and makes the roof system less competitive.

Accordingly, you can see why the prescriptive method is preferred by contractors over the performance-based method.

### In Closing

I hope this two-part article gives readers a little more guidance in dealing with ASCE 7-16 and I close with a few important points. Ensure that an appropriate safety factor is included. Make sure you select a roof system with a tested capacity that meets or exceeds the design wind loads. Finally, if you decide to use the prescriptive enhancement option for treating perimeters and corners, confirm with the AHJ that it’s acceptable. 

*Joan Crowe is GAF’s Director of Codes & Regulatory Compliance and has over 30 years of experience in the construction industry. She has a B.S. and M. Arch in Architectural Studies from University of Illinois and is a licensed architect. Crowe previously worked at the National Roofing Contractors Association (NRCA) as a Director of Technical Services and as an architect at Wiss, Janney, Elstner & Associates.*

*Crowe serves on the CRCA Industry Affairs / Tech Committee and has served as Co-Chair of the CRCA’s Chicagoland Women in Roofing Committee.*



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# Roof Talk—Contractor



**Company:** MidAmerica Roofing, Inc.

**Location:** Romeoville, IL

**Business Founded:** 1986

**Number of Employees:** 35

**Joined CRCA:** December, 1993

**Provided by:** Eric Procaccio, President at MidAmerica Roofing, Inc.

## What Services Does Your Business Offer?

We are a full service commercial, industrial and institutional low-slope roofing contractor. We install EPDM, TPO, PVC, KEE and Modified Bitumen roof systems. We also offer 24/7 leak repair, preventative maintenance and roof asset management.

## Where Do You See Your Business in 5-10 Years?

We hope to continue a steady growth while maintaining exceptional quality and service.

## What Is Your Best Business Memory to Date?

My best memories were working along my father for over a decade. The lessons and knowledge I obtained have been crucial to our continued success. My father is now happily retired and couldn't be happier for him.

## How Did You Learn About CRCA?

From my father, Tony Procaccio.

## If You Attend CRCA Events, Can You Describe a Benefit of Attendance?

CRCA events provide us with opportunities to network with our peers and to stay abreast of anything and everything important in our industry.

## What Value Does CRCA Membership Bring to You?

CRCA membership brings value to MidAmerica Roofing by providing us with education and guidance about the roofing industry. CRCA membership ensures to our customers that we are always evolving and expanding our industry knowledge.

## What Advice Would You Give a New CRCA Member?

I would advise them to be active within the CRCA as the tools that membership provides are immeasurable.

# Roof Talk—Associate



**Company:** DSP Insurance Services, Inc.

**Location:** Schaumburg, IL

**Business Founded:** 1981

**Number of Employees:** 73

**Joined CRCA:** March, 2015

## What Services Does Your Business Offer?

DSP Insurance Services is an independently owned Insurance, Surety and Employee Benefits agency headquartered in Schaumburg, Illinois. The original founders of DSP (Drost, Schutz and Pohl) were construction insurance and surety professionals who understood the importance of expertise and quality service. We work with our clients to provide that expertise and coverage placement for Insurance and Risk Management programs, as well as providing guidance in securing surety bonds (Bid Bonds, Payment & Performance Bonds) for the roofing and construction industry.

## What Is Your Best Business Memory to Date?

On May 19, 2023, DSP welcomed six existing employees as new owners into the organization. This was an exciting and essential step in our commitment to remain an independent agency. This internal perpetuation plan will allow DSP to continue our legacy of commitment to doing what is in the best interest of our customers, at all times. This next stage in the life cycle of DSP also gives our employees the confidence that they are, and will remain, the most valuable asset of the company.

## How Did You Learn About CRCA?

Several owners of DSP have a history with the CRCA from their prior workplace, having serviced contractor members of the association. When these individuals moved to DSP in 2015, the agency became a member of the CRCA.

## If You Attend CRCA Events, Can You Describe a Benefit of Attendance?

Every CRCA event, whether it is the monthly member luncheons, the Tradeshow or the Golf Outing, are great ways to interact with peers in the industry, meet a new face, share industry knowledge or simply enjoy time socializing. The CRCA Emerging Leaders events have also been an excellent way to connect with those who are newer to the roofing industry or their profession. Participation in any CRCA event always brings a renewed sense of pride for being part of such a great group.

## What Value Does CRCA Membership Bring to You?

The CRCA brings tremendous value including, most importantly, the connections with fellow members, educational content, legislative support for the roofing industry, and the wide variety of events.

## What Advice Would You Give a New CRCA Member?

The best thing you can do to take advantage of your CRCA Membership is to get involved (join a committee, attend events, sponsor events, introduce yourself to new members) and share your knowledge/expertise with others.

## Where Do You See Your Business in 5-10 Years?

DSP is committed to remaining an independent, closely held insurance and surety business for years to come. We wholeheartedly believe that this strategy aligns us closely with our customers, allowing us to continue to provide the expert and trusted service we are known for. It's exciting to be a part of an association where a majority of members are also multi-generation firms likely to be involved in the association for years to come.



# OSHA Fines Illinois Contractor More Than \$150,000

By Trent Cotney



Trent Cotney

**W**e all know that Occupational Safety and Health Administration (OSHA) citations are serious business, but repeat violations can make those fines even steeper. A contractor in Oswego recently experienced that first-hand when it was found in violation of providing fall protection and

necessary training. To make matters worse, this incident was the seventh time that federal inspectors have cited the contractor since 2015.

## Circumstances on the Site

On April 12, 2023, OSHA inspectors noted that six carpenters framing Orland Park townhomes were working at heights of more than 20 feet, but they had no fall protection. After opening an investigation, OSHA officials discovered that United Custom Homes LLC, the contractor employing the carpenters, also did not train workers on operating forklifts and using fall protection and had not provided eye protection for workers.

## OSHA's Response to the Violations

Once the inspection was complete, OSHA cited United Custom Homes with one willful violation, two serious violations, and one repeat violation. The proposed penalties totaled \$151,260. This contractor, which still owes OSHA more than \$81,000 in unpaid penalties, had been cited for similar findings at other Chicago-area work sites, dating back to 2015.

In explaining the fines levied on the contractor, James Martineck, area director for Chicago South, called out the company's "continued defiance toward federal safety regulations" and noted that "United Custom Homes' employees face real dangers that federal safety standards can prevent."

## OSHA Fall Protection Resources


On its website, OSHA provides a reminder that in the construction industry, falls are the leading cause of death. It also notes that in 2020, there were 1,008 construction fatalities due to falls, and of those, 351 were falls to a lower level.

The agency offers information for planning projects that require working at heights, and it urges employers to budget for the necessary equipment, provide that equipment, and ensure that workers are trained to use it properly.

## Protecting Yourself from Citations

When OSHA hands you a citation, the penalties can be devastating for your company. As of January 2023, serious and other-than-serious violations carry maximum penalties of \$15,625 per violation, while willful or repeat violations have maximum penalties of \$156,259 per violation. Multiple violations can do damage to your bottom line, and when word gets out, these citations can ruin your reputation. More importantly, failing to provide a safe environment puts your workers, as well as your company, at risk.

Make sure you properly document safety training including tool box talks. In addition, verify that your safety manual is up to date and tracks the latest safety regulations. Don't forget to do routine job site safety audits and check equipment daily for issues. Remember that every penny spent on safety is a penny well spent.

*The information contained in this article is for general educational information only. This information does not constitute legal advice, is not intended to constitute legal advice, nor should it be relied upon as legal advice for your specific factual pattern or situation.* 

*Trent Cotney is a partner and Construction Practice Group Leader at the law firm of Adams and Reese LLP and CRCA General Counsel. You can reach him at [trent.cotney@arlaw.com](mailto:trent.cotney@arlaw.com) or 866.303.5868.*

## Why Is Fall Protection Important?

Per OSHA.gov, falls are among the most common causes of serious work related injuries and deaths. Employers must set up the work place to prevent employees from falling off of overhead platforms, elevated work stations or into holes in the floor and walls.

What can be done to reduce falls?

Employers must set up the work place to prevent employees from falling off of overhead platforms, elevated work stations or into holes in the floor and walls. OSHA requires that fall protection be provided at elevations of four feet in general industry workplaces and six feet in the construction industry.

To prevent employees from being injured from falls, employers must:

- Guard every floor hole into which a worker can accidentally walk (using a railing and toe-board or a floor hole cover).
- Provide a guard rail and toe-board around every elevated open sided platform, floor or runway.
- Other means of fall protection that may be required on certain jobs include safety harness and line, safety nets, stair railings and hand rails.

OSHA requires employers to:

- Provide working conditions that are free of known dangers.

- Keep floors in work areas in a clean and, so far as possible, a dry condition.
- Select and provide required personal protective equipment at no cost to workers.
- Train workers about job hazards in a language that they can understand.

Take a moment and visit the many resources OSHA provides fall protection safety:

- Protecting Roofing Workers: <https://www.osha.gov/sites/default/files/publications/OSHA3755.pdf>
- Fall Protection in Construction: <https://www.osha.gov/sites/default/files/publications/OSHA3146.pdf>
- Falling off Ladders can kill (English and Spanish): <https://www.osha.gov/sites/default/files/publications/OSHA3625.pdf>
- Residential Fall Protection Standards 1926 Subpart M: duty to have fall protection (1926.501), fall protection systems (1926.502) and training requirements (1926.503): <https://www.osha.gov/residential-fall-protection/standards>
- Sample Fall Protection Plan for Residential Construction: <https://www.osha.gov/residential-fall-protection/sample-plan>
- Reducing Falls during Residential Re-Roofing: <https://www.osha.gov/sites/default/files/publications/reducing-falls-during-residential-construction-re-roofing.pdf>



Photo: National Institute for Occupational Safety and Health (NIOSH)

OSHA.gov photo

# Industry News

By CRCA Staff

## 2023 CRCA Golf Outing A Success!

With picture perfect weather for the July CRCA golf outing, the 288 golfers had a great time networking, talking to old and new friends and even playing a bit of golf! CRCA has a rich history with this event, with over 70 years of golf outings being held!

The course champions were:

- North: Jeff Dickman, George, Kevin & Chuck Neuhaus
- South: Erik Vega, Scott Crowther, Casey Fraher and Adam Turnell

A big thanks the over 45 member firms that sponsored the event. To learn more, visit <https://www.crca.org/Events/Golf-Outing> and to view the event photos, visit: <https://www.crca.org/Events/Event-Photos/2023-Event-Photos>.

## Upcoming CRCA Member Events—Register at CRCA.Org / Events Today!

**September CRCA Membership Meeting format changed!** Members Talk! We listened! Register for the September 12 CRCA Membership Meeting at Pinstripes, Oakbrook at CRCA.org / Events with the new 2:00-4:00 pm format.

## CRCA will be hosting a new member onboarding

in a virtual meet & greet format on September 26. This is a great opportunity for new members to learn about all what CRCA has to offer. Thanks to Brad Schwab for facilitating!

## Come network with CRCA's Emerging Leaders

at the September 28<sup>th</sup> Topgolf event in Schaumburg. This annual event brings together those new to the roofing industry along with seasoned professionals.

## Save the Date for the October 12th Casino Night!

This event is FREE to CRCA members and a great time will be had by all! Watch CRCA.ORG for registration info.

## CRCA's CWIR sponsored events:

**Don't miss registering for one of the upcoming Powered Industry Lift Truck Training sessions,** sponsored by CRCA's CWIR. Limited to CRCA members

only, the October events will be held in Naperville and also in Chicago. CRCA thanks CWIR for spearheading a back-to-school drive to gather school supplies for underserved children. A big thanks to Lakefront Supply for hosting!

**CRCA's November 7 Lunch and Membership Meeting will be sponsored** by CRCA's Health & Safety Committee and Contracts and Insurance. Presented by Matt Blair, Founder of the Well Resource Center, He will share personal insight and strategies developed with his experience working with first responders. CRCA Members will be able to take away these skills to use in the workplace and personal arenas.

## Other CRCA Member News:

CRCA Member Firm Hendrick, Phillips, Salzman & Siegel has been recognized as one of the Top 50 Construction Law Firms by *Constructive Executive Magazine* for 2023. The magazine developed this ranking by polling over 600 U.S. construction law firms via a survey. The data collected included: 1) 2022 revenues from the firm's construction practice; 2) number of attorneys in the firm's construction practice; 3) percentage of firm's total revenues derived from its construction practice; 4) number of states in which the firm is licensed to practice; 5) year in which the construction practice was established; and 6) number of construction industry clients served during fiscal year 2022. Congrats HPSS!

## ABC Promotes Chicago District Manager

ABC Supply announced the promotion of Tyler Remaly to Chicago District manager at ABC Supply Co., Inc., in May, succeeding the retiring Mike Brake.

Remaly started at the Atlanta Bradco Supply in 2009, working in the warehouse and inside sales. With ABC's acquisition of Bradco in 2010, he worked his way up the ladder in the ABC Supply Southeast Region team, earning his President's Club membership in 2022. In his new role in the Chicago market, he will be responsible for the overall management of the district's performance.

"Tyler is a dedicated and experienced leader," said Joe Small, Midwest Region vice president at ABC Supply.

"The many roles he has held over the last 14 years have prepared him well for this new position, and we are confident our customers in the Chicago area will continue to find value in ABC Supply's services, tools and resources as they grow their businesses. Welcome to Chicago Tyler and Happy Retirement Mike!

### Omni Ecosystems Receives Award



Photo courtesy of Omni Ecosystems

Friends of the Chicago River has been working to improve the health of the Chicago River System since 1979. Each year, they recognize organizations and companies to honor this mission. CRCA Member Omni Ecosystems received the 2023 Silver Ribbon Award for the rooftop landscape at Omni's Bronzville headquarters in Chicago. The project included 150 trees, habitat and pollinator gardens and extensive stormwater management. Omni, a CRCA Associate member since 2017, works with design and trade professionals on vegetative roofing systems. For more info, contact [info@omniecosystems.com](mailto:info@omniecosystems.com).

### Korellis Steps Up to Safety!

CRCA Contractor Member Korellis is one of only 49 companies in Indiana to be granted the Indiana Safety and Health Achievement Recognition Program (INSHARP). As a company, they recognize that to be successful, a program of continuous safety improvement must be upheld.

At a recent weekly company-wide safety meeting, crew members brought over 100 ladders to the shop to inspect, take any deficient out of service and also train on on-the-job inspections as well. Congrats for making Safety a priority and using the motto "Safety—It's Everyone's Full Time Job".



Photo courtesy of Korellis

### Other CRCA Member News

**Peterson Roofing Inc.** was honored by Nextdoor as a 2023 award recipient. Participants are selected by local residents by choosing their favorite businesses with only 1% of local businesses receiving this recognition. Congrats!

**All-American Exterior Solutions** teamed up with Feed My Starving Children in Libertyville in July to pack up 85 boxes of food which equals to 18,360 meals. Thanks for giving back!

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## Manufacturer Recognitions

### John Goers, Architectural Building Solutions, Inc.

recently announced that CRCA Member, Active Roofing Company, has reached Johns Manville's Peak Advantage® Program. They join other CRCA Members All American Exterior Solutions and Sullivan Roofing who also have achieved the 5280 JM Contractors Category. Way to Go!



Photo courtesy of ABS

**Aadvanced Building Products, LLC** announced that the following CRCA Contractor Members were awarded Carlisle SynTec Systems' 2023 Excellence in Single-Ply Awards: A-1 Roofing, Local Roofing and Olsson Roofing. This award acknowledges dedication and quality of work. Congratulations! (Photos courtesy of Aadvanced).



In June, the CSI Chicago Chapter announced the following award recipients who proved a significant impact to the chapter or to the Chicago construction industry. Congrats!

- 2023 President's Award - **Paul Fogarty**, CSI, CDT+CCPR (SJ Mallein & Associates)
- 2023 Rookie Award - **Beth Winkler**, CSI (Schwab Group LLC)
- 2023 Advocate Award - **Brad Schwab**, CSI, CDT, (Schwab Group LLC)
- 2023 Ally Award - **CRCA**
- 2023 Foundation Champion Award - **Paul Larson**, CSI (Comstruct Sales)

### IIBEC Finds Workforce Alliance

In June, IIBEC became a founding member of the *Tomorrow's Workforce Coalition*, which advocates for



economic development policy to strengthen the workforce now and in the future. Organized by the American Society of Association Executives, the coalition's efforts will focus on building support for the **Freedom to Invest in Tomorrow's Workforce Act** (S. 722 / H.R. 1477), which would allow students, workers, and families to use their 529 savings plans for costs associated with obtaining and maintaining postsecondary credentials, such as licenses and nongovernmental certifications.

The 529 program, as currently structured, only helps students enrolled in qualified higher education programs. However, associations are the primary source of post-secondary education for most workers. This legislation would bridge the gap and allow workers in any phase of their career, at any education level—of any background—to more readily access the unique tax benefits that 529s provide while boosting their career prospects and earning potential.

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Brian Pallasch, executive vice president and CEO of IIBEC, stated, "Bob Lyons started RCI, our predecessor organization, based on the premise that there should be some way to establish qualifications of roof consultants and roof surveyors. Now, with over 2500 credential holders worldwide, the IIBEC credentialing program has proven valuable for both the holders and the building

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owners. Allowing 529 funds to be used to offset the costs of seeking or retaining a credential will provide IIBEC members with a tax benefit as they seek to better themselves. Advocating for this common-sense legislation aligns with IIBEC's strategic plan to increase the relevance and value of IIBEC certifications."

Visit <https://iibec.org/credentials/> to learn more.



## CRCA Welcomes the Following Upgraded CRCA Members!

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**Bronze**

Learn more about CRCA's Member Upgrades and all this includes! Contact [info@crca.org](mailto:info@crca.org) today!

## OSHA Forms Suicide Alliance

Did you know that Suicide is a leading cause of death among working-age adults in the United States? According to the Centers for Disease Control and Prevention, suicide occurs in 27 out of every 100,000 people, and in construction, the number is 53.3 suicides per 100,000 workers. "It deeply impacts workers, families, and communities," says Doug Parker, assistant secretary of labor for OSHA. "OSHA is proud to join with the American Foundation for Suicide Prevention to eliminate barriers to getting help and promote the mental well-being of all workers."

OSHA and the American Foundation for Suicide Prevention (AFSP) have signed a two-year alliance agreement to promote awareness of workplace mental health and suicide prevention. AFSP is a voluntary health organization giving those affected by suicide a nationwide community empowered with research, education, and advocacy. One of their initiatives is the promotion of September as Suicide Prevention Awareness Month. To reflect diversity in the workforce and encourage workers' sense of belonging, the alliance will aim to develop information and products on workplace mental health and suicide prevention awareness in multiple languages.

Best practices and effective approaches for promoting workplace suicide prevention awareness will be shared through the agreement. The alliance will also explore opportunities for AFSP to contribute to OSHA's new Traumatic Stress directive, and update and expand OSHA's [Preventing Suicides](#) webpage.

They have developed the following five bullets:

1. Everyone can help prevent suicide—while difficult to talk about, especially with work colleagues, your actions can make a difference.
2. Know the warning signs.
3. Ask "Are You okay?"
4. If someone is in crisis, stay with them and get help.
5. Suicide prevention resources are available.

Construction Suicide Prevention Week was formed in 2020 by a group of volunteers across the construction industry. The week is dedicated to raising awareness about the higher-than-average number of suicides in the construction industry, and to providing resources to help prevent those deaths. Currently, OSHA's Preventing Suicides webpage directs anyone who may need help to the new three-digit dialing code "988" or to online at [988lifeline.org/chat](https://988lifeline.org/chat).

Take a moment to visit the following resources. Attend the CRCA November Membership Lunch and Meeting to learn from Matt Blair, a mental health expert that works closely with first responders through the Wellness Center Organization. Visit [CRCA.org/event](https://www.crca.org/event) to register. Not a member? Contact [info@crca.org](mailto:info@crca.org) to learn more.

### Resources

- [osha.gov/preventingsuicides](https://www.osha.gov/preventingsuicides)
- [www.afsp.org](https://www.afsp.org)
- <https://www.sprc.org/settings/workplaces>
- [https://www.builderonline.com/building/safety-healthfulness/osha-american-foundation-for-suicide-prevention-partner-on-workplace-mental-health\\_o](https://www.builderonline.com/building/safety-healthfulness/osha-american-foundation-for-suicide-prevention-partner-on-workplace-mental-health_o)

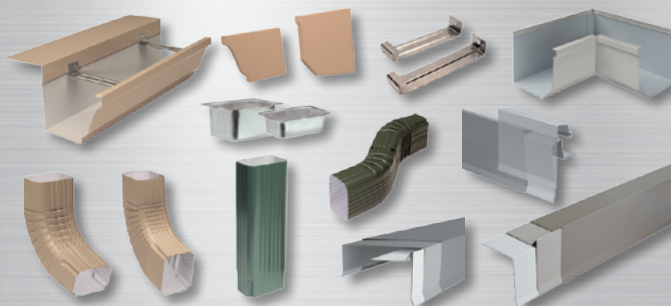
# CRCA Contractor Members

The Contractor Members of the Chicago Roofing Contractor Association install all types of roofs, including reflective single ply, modified bitumen, built up, gravel, reflective coatings, shingle, shake, slate and tile, vegetative garden or photovoltaic coverings. From formation following the Great Chicago Fire of 1871, CRCA Members have moved with the times and technology, yet continue to maintain some of the same goals set forth over 140 years ago. To find a CRCA Professional Contractor, visit [www.CRCA.org](http://www.CRCA.org).

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| <b>A-1 Roofing Co.</b> .....(847) 952-3600                                 | <b>Elite Home Restoration, Inc.</b> .....(630) 823-8580                        | <b>GC Roofing LLC</b> .....(773) 766-3421                                |
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| <b>Domain Corporation</b> .....(773) 628-0001                              |  |  |
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| <b>Driscoll Renovations, Inc.</b> .....(630) 628-7800                      |  |  |
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| <b>Elgin</b> .....                                  | (847) 241-2000 | <b>ComStruct Sales, LLC</b> .....                   | (847) 922-3520        | <b>HLP Systems, Inc.</b> .....                            | (847) 362-0777        |
| <b>Joliet</b> .....                                 | (815) 600-8886 | <b>Continental Materials, Inc.</b> .....            | (973) 557-1884        | <b>Houseworks Daylighting Solutions, LLC</b> .....        | (847) 729-0255        |
| <b>Loves Park</b> .....                             | (815) 877-6778 | <b>Cordeck</b> .....                                | (262) 857-3000        | <b>Hunter Panels</b> .....                                | (888) 746-1114        |
| <b>Prairie State Exterior Products</b> .....        | (708) 754-9339 | <b>Crissie Insurance Group</b> .....                | (800) 562-6362        | <b>IB Roof Systems</b> .....                              | (800) 426-1626        |
| <b>Waukegan</b> .....                               | (847) 249-3328 | <b>Critical Point Corporation</b> .....             | (800) 821-4104        | <b>ICP Building Solutions Group</b> .....                 | (224) 806-3195        |
| <b>Another Plumbing Company</b> .....               | (815) 475-5988 | <b>Dataforma, Inc.</b> .....                        | (866) 764-9992        | <b>IKO Midwest</b> .....                                  | (312) 576-5243        |
| <b>Architectural Building Solutions, Inc.</b> ..... | (630) 402-9988 | <b>DaVinci Roofscapes</b> .....                     | (800) 328-4624        | <b>Industrial Cork Company, Inc.</b> .....                | (630) 832-2803        |
| <b>Arthur Williams Industries</b> .....             | (800) 549-6004 | <b>Disposal Alternatives</b> .....                  | (617) 975-2000        | <b>Inland Coatings</b> .....                              | (515) 993-4524        |
| <b>Arvinyl Laminates, LP</b> .....                  | (800) 278-4695 | <b>D-MAC Industries</b> .....                       | (800) 878-3622        | <b>INSULFOAM</b> .....                                    | (402) 624-6611        |
| <b>Assured Partners Inc.</b> .....                  | (630) 355-2077 | <b>DSP Insurance Services, Inc.</b> .....           | (847) 934-6100        | <b>Integrated Electric</b> .....                          | (708) 839-9424        |
| <b>ATAS International, Inc.</b> .....               | (610) 395-8445 | <b>Duravent Group</b> .....                         | (800) 835-4429        | <b>Interior Protection Inc.</b> .....                     | (630) 530-4920        |
| <b>Atlas Roofing Corporation</b> .....              | (800) 677-1476 | <b>Duro-Last Roofing, Inc. (Chicago)</b> .....      | (800) 248-0280        | <b>International Leak Detection, LLC</b> .....            | (866) 282-LEAK (5325) |
| <b>Barge Terminal Trucking, Inc.</b> .....          | (630) 499-5565 | <b>Eagleview-Pictometry</b> .....                   | (866) 659-8439, x5561 | <b>IR Analyzers / Vector Mapping</b> .....                | (800) 879-1964        |
| <b>Beacon Building Products</b>                     |                | <b>East Lake Metals LLC</b> .....                   | (219) 655-5526        | <b>JJ Superior Metal, Inc.</b> .....                      | (708) 544-3757        |
| <b>Carol Stream</b> .....                           | (630) 790-3400 | <b>EcoStar LLC</b> .....                            | (800) 211-7170        | <b>Jobba Trade Technologies</b> .....                     | (855) 633-3327        |
| <b>Arlington Hts.</b> .....                         | (847) 357-0433 | <b>Elevate, Holcim Bldg. Envelope Div.</b> .....    | (800) 428-4442        | <b>Johns Manville Roofing Systems</b> .....               | (224) 325-2524        |
| <b>Chicago / Pulaski</b> .....                      | (773) 772-6500 | <b>Estimating Edge, LLC</b> .....                   | (561) 276-9100        | <b>Karnak Corporation</b> .....                           | (732) 388-0300        |
| <b>Des Plaines</b> .....                            | (847) 795-9378 | <b>Everest Systems LLC</b> .....                    | (800) 575-8966        | <b>Kemper System</b> .....                                | (716) 558-2971        |

# CRCA Associate Members

|  |                       |
|--|-----------------------|
| Kirby Fiberglass.....  | (719) 547-3940        |
| Lakefront Roofing Supply.....                                | (773) 509-0400        |
| Latino Workers Safety Center.....                            | (708) 449-9500        |
| <b>Leading Edge Safety.....</b>                              | <b>(888) 990-2990</b> |
| Leister Technologies.....                                    | (630) 760-1000        |
| Liftoff Crane Services LLC.....                              | (630) 800-6639        |
| LiveRoof, LLC.....   | (800) 875-1392        |
| Lomanco, Inc.....  | (800) 643-5596        |
| LRS.....   | (844) 633-3577        |
| Lurvey Supply.....   | (262) 479-8369        |
| MACK Construction Services, LLC.....                         | (773) 525-3411        |
| Makita.....  | (536) 940-5489        |
| Malarkey Roofing Products.....                               | (800) 545-1191        |
| <b>Marathon Roofing Products/<br/>MRP Supports, LLC.....</b> | <b>(800) 828-8424</b> |
| Marsh McLennan.....  | (847) 463-7118        |
| McElroy Metal, Inc.....                                      | (219) 879-0252        |
| MEP Insulation Recycling.....                                | (317) 894-2763        |
| Mid-States Asphalt.....                                      | (630) 730-1689        |
| Mule-Hide Products Co., Inc.....                             | (815) 641-8548        |
| Novagard Solutions.....                                      | (800) 380-0138        |
| NPC Colored Sealants.....                                    | (708) 681-1040        |
| <b>NSS Exteriors.....</b>                                    | <b>(708) 385-5815</b> |
| OMG Roofing Products.....                                    | (800) 633-3800        |
| Omni Ecosystems.....   | (312) 337-3196        |
| Panasonic US.....  | (201) 423-3154        |
| Performance Roof Systems.....                                | (708) 380-5045        |
| Petersen Aluminum Corporation.....                           | (800) 722-2523        |
| Polyglass U.S.A, Inc.....                                    | (847) 431-6005        |
| Pro Fastening Systems Inc.....                               | (847) 577-7185        |
| Pro Lightning Protection.....                                | (262) 925-7199        |
| Progressive Materials.....                                   | (630) 488-9277        |
| Prosoco, Inc.....  | (800) 255-4255        |
| R.M. Lucas Company.....                                      | (773) 523-4300        |
| Raptor Synthetic Underlayments.....                          | (317) 202-8200        |
| Ray's Roofing Supply.....                                    | (219) 932-7297        |
| <b>Richards Building Supply Company</b>                      |                       |
| Corporate.....   | (773) 586-7777        |
| Calumet City.....  | (708) 891-2211        |
| Chicago/Belmont Ave.....                                     | (773) 499-7177        |
| Joliet.....  | (815) 725-2458        |
| Rockwool.....  | (855) 876-3755        |
| <b>Roofvent, LLC.....</b>                                    | <b>(708) 618-9525</b> |
| Runnion Equipment Company.....                               | (708) 447-3169        |
| S.J. Mallein & Assoc.....                                    | (630) 570-0301        |
| Safety Check, Inc.....                                       | (815) 475-9991        |
| Safety Rail Company LLC.....                                 | (888) 434-2720        |
| SBC Waste Solutions Inc.....                                 | (312) 522-1115        |
| Schwab Group LLC.....  | (630) 326-9444        |

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| Sentry Building Innovations.....                               | (877) 254-0788        |
| Service First Solutions.....                                   | (469) 496-0055        |
| ShapeConnect, Inc.....   | (847) 322-4929        |
| Sheet Metal Supply Ltd.....                                    | (847) 478-8500        |
| Sika Sarnafil.....   | (800) 532-5123 x7222  |
| SIMIX, LLC.....  | (262) 705-2585        |
| Siplast.....   | (800) 922-8800        |
| Soprema, Inc.....  | (330) 334-0066        |
| Southwind RAS, LLC.....  | (630) 233-5700 x119   |
| Stone Mountain Access Systems, Inc.....                        | (708) 544-9010        |
| Swanson, Martin & Bell, LLP.....                               | (312) 321-9100        |
| Tarco.....   | (800) 365-4506        |
| The Horton Group.....  | (708) 845-3000        |
| <b>The J &amp; R Group of Bank of<br/>America Merrill.....</b> | <b>(312) 696-7518</b> |
| TRUFAST.....   | (800) 443-9602        |
| United Asphalt Company.....                                    | (800) 843-0317        |
| United States Gypsum.....                                      | (773) 213-6192        |
| <b>USI Insurance Services.....</b>                             | <b>(716) 314-2005</b> |
| VB Synthetics.....   | (312) 664-3810        |
| Velux America.....   | (864) 941-4770        |
| Verde Solutions LLC.....                                       | (800) 541-1137        |
| Versico.....   | (800) 992-7663        |
| VFC Lightning Protection.....                                  | (801) 292-2956        |
| Viking Products Group.....                                     | (800) 350-2142        |
| W. R. Meadows, Inc.....  | (847) 214-2100        |
| Walter Payton Power Equipment LLC.....                         | (708) 656-7700        |
| Westlake Royal Building Prod., 2801.....                       | 920-412-8230          |
| WindSmart, LLC.....  | (800) 474-8186        |
| <b>Architects &amp; Roof Consultants</b>                       |                       |
| ARCON Associates, Inc.....                                     | (630) 495-1900        |
| Building Envelope Consultants Ltd.....                         | (317) 432-1727        |
| Building Technology Consultants, Inc.....                      | (847) 454-8800        |

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|---|----------------|
| C.E. Crowley & Associates, Inc.....           | (847) 662-8132 |
| Century Roof Consultants.....                 | (847) 202-8500 |
| Flood Testing Labs, Inc.....                  | (773) 721-2200 |
| Hutchinson Design Group, LLC.....             | (312) 343-9595 |
| Illinois Roof Consulting Associates Inc.....  | (815) 385-6560 |
| INSPEC, Inc.....                              | (847) 652-6617 |
| Interstate Roof Systems Consultants, Inc..... | (847) 695-1460 |
| K2N Crest.....                                | (630) 990-9595 |
| Kellermeyer Godfryt Hart, P.C.....            | (847) 318-0033 |
| Klein and Hoffman, Inc.....                   | (312) 251-1979 |
| Legat Architects.....                         | (630) 645-1906 |
| Mac Brady Associates, Inc.....                | (312) 550-1343 |
| MTech Roofing Solutions LLC.....              | (630) 777-8024 |
| O'Brien Roof Consulting, Inc.....             | (708) 951-8271 |
| Raths, Raths and Johnson, Inc.....            | (630) 325-6160 |
| RCL Engineering Services.....                 | (847) 867-7093 |
| SRI Consultants Inc.....                      | (608) 831-5333 |
| STR Building Resources LLC.....               | (847) 652-6115 |
| YA Engineering Services.....                  | (312) 919-8279 |
| <b>Vacuuming</b>                              |                |
| D&M Service Group.....                        | (816) 830-9432 |
| Dietz Vacuum Service, Inc.....                | (708) 301-9127 |
| Ready Vac, Inc.....                           | (847) 437-5771 |
| RK HydroVac.....                              | (800) 754-9376 |
| Vac-It-All Services, Inc.....                 | (314) 487-5600 |
| Velocity Roof Vac Service Inc.....            | (630) 936-2421 |

\* **Upgraded CRCA Members. To learn more, visit [CRCA.org/Upgraded-Members](http://CRCA.org/Upgraded-Members)**

## CRCA welcomes the following new members since the Spring CRCA Today!

### Associate Members:

Ghemco  
Integrated Electric  
Another Plumbing Company, LLC  
Roofvent LLC

### Contractor Member:

Roofworx

To learn more about these firms, visit [www.CRCA.org](http://www.CRCA.org) to view the member list. Interested in being a member? Contact [info@CRCA.org](mailto:info@CRCA.org) today!

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