NRCA
PROFESSIONAL ROOFING

BEYOND HARNESSES

It's time to implement total worker well-being in roofing

September 2025/$10
professionalroofing.net

WHY A MALARKEY ROOFING SHINGLE?

Malarkey shingles deliver all-weather durability with up to **35% Greater Tear Strength** & **65% Greater Granule Adhesion** than the industry standard, & up to **Class 4 Hail Impact Rating** (highest rating possible), while also incorporating **upcycled rubber & hard plastics** for added durability & sustainability.

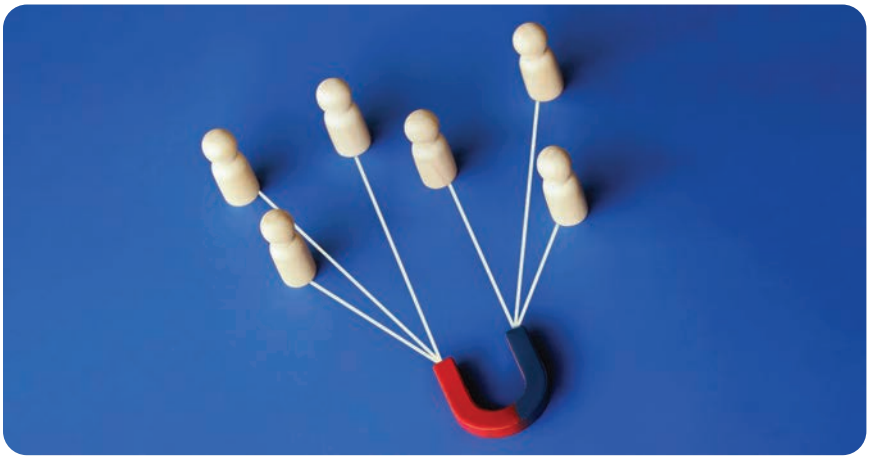
Better performance, & better for the environment – **Why not a Malarkey Shingle?**

Malarkey Roofing Products®

Piece keeping

Retaining employees can become easier if you follow a few guidelines

by Ambika Puniani Reid



This month, we highlight the roofing industry's participation in SkillsUSA,® which helps draw young adults into the industry (see "The future of roofing," page 32). While reading it, I realized how important it is to keep recruits engaged and invested in their new roofing careers.

In *Harvard Business Review*'s article "5 Questions Every Manager Needs to Ask Their Direct Reports," author Susan Peppercorn explains the crucial information supervisors must receive from their teams regularly to keep all their team pieces intact.

She writes: "In a recent Gallup study, more than half of employees surveyed said that no one—including their manager—had talked to them about how they were feeling in their role in their last three months before they quit."

To help prevent this from happening, Peppercorn says team leaders routinely should ask employees the following questions:

1. How would you like to grow within this organization?
2. Do you feel a sense of purpose in your job?
3. What do you need from me to do your best work?
4. What are we currently not doing as a company that you feel we should do?
5. Do you have the opportunity to do what you do best every day?

In another *Harvard Business Review* article, "As Power Shifts Back to Employers, They Need to Avoid 3 Pitfalls," authors Ron Carucci and Jarrod Shappell share things employers need to avoid doing to realize increases in employee retention. They say employers need to stop:

- Micromanaging, surveilling and rigidly controlling employees
- Neglecting employee well-being
- Having a replaceable-worker mindset

"The companies that treat employees as disposable always end up in panic-hiring cycles when talent shortages return," say Carucci and Shappell.

As you begin to add new employees to your team (and continue to nurture current employees), keeping these retention tips in mind could help you build a stronger, more reliable workforce.

Ambika

AMBIKA PUNIANI REID is editor of *Professional Roofing* and NRCA's vice president of communications.

CLOSE-UP

In partnership with AJ Foyt Racing at the 109th running of the Indianapolis 500, NRCA member ABC Supply Co. Inc., Beloit, Wis., raised $4.7 million for Homes for our Troops. As part of its commitment to supporting veterans, ABC Supply matched the first $1 million in donations, surpassing its $4 million goal.

ABC Supply led a monthlong fundraising campaign and sponsored a red, white and blue livery of AJ Foyt Racing's No. 14 Chevy. Driven by Santino Ferrucci, the team earned fifth place at this year's Indianapolis 500.

Since 2020, ABC Supply has been a Platinum National Partner of Home for our Troops, a nonprofit that builds and donates custom, specially adapted homes for severely injured post-9/11 veterans.

To submit a photo to Close-up, email professionalroofing@professionalroofing.net. Submittals should include a photo and a description of the photo.


14
HFOTUSA.ORG
JON HART
IFS
SHERWIN-WILLIAMS.
Coil Coatings
NTT
Firestone

SEPTEMBER 2025
VOLUME 55
ISSUE 7

FEATURES

A PALETTE OF POSSIBILITIES™

Duration® Designer Shingles

The variety of vibrant, exclusive colors of TruDefinition® Duration® Designer Shingles gives homeowners an unmatched palette of possibilities. Whether it's to complement or create bold contrast with other exterior design elements, they'll find a color to beautifully match their vision. For a cohesive finish, pair with Owens Corning® Hip & Ridge Shingles—specially designed to color-match Duration® Designer Shingles for a beautifully unified look.

See the full Palette of Possibilities at
ShinglePalette.com

THE PINK PANTHER™ & © 1964–2025 Metro-Goldwyn-Mayer Studios Inc.
All Rights Reserved. © 2025 Owens Cornng. All Rights Reserved.

COLUMNS

DEPARTMENTS

TEAM

Editor
Ambika Puniani Reid
areid@nrca.net

Associate Editor
Chrystine Elle Hanus
chanus@nrca.net

Editorial Assistant
Avery Timmons
atimmons@nrca.net

Creative Director
Nancy Davis
ndavis@nrca.net

Graphic Designers
Jairo Ayala
jayala@nrca.net

Oshla Gray
ogray@nrca.net

Morgan Grosvenor
mgrosvenor@nrca.net

Director of Communications
Krista Berns
kberns@nrca.net

Manager of Online Communications
Madison Mahoney
mmahoney@nrca.net

National Advertising Sales Manager
Michael Stack
mstack@nrca.net
(847) 493-7554

CEO
McKay Daniels
mdaniels@nrca.net

Publisher
Jeff Jarvis
jjarvis@nrca.net

Digital editions: You can find additional editorial and images for this issue and past issues at professionalroofing.net.

Subscription: Subscriptions are free for roofing industry professionals. Subscribe online at professionalroofing.net/subscribe. Single copies may be purchased for $10 U.S. For questions regarding subscriptions or renewals, call (847) 299-9070. Periodicals class postage paid at Itasca, IL, and additional mailing offices. Postmaster: Send address changes to *Professional Roofing*, 2 Pierce Place, Suite 1200, Itasca, IL 60143.

Letters: Write to 2 Pierce Place, Suite 1200, Itasca, IL 60143; fax (847) 299-1183; or email professionalroofing@professionalroofing.net. Views expressed in Letters are not necessarily those of NRCA. Letters must include the sender's name and company name.

Mission: *Professional Roofing* provides cutting-edge content, valuable insight and innovative ideas to help roofing professionals succeed.

Judgments, opinions and submitted photography in *Professional Roofing* are the authors' alone and should not be considered an expression of opinion, endorsement or official policy of NRCA. Articles are published for the purpose of stimulating independent thought about matters of concern to roofing professionals.

PR PROFESSIONAL ROOFING (ISSN 0896-5552) is published 10 times per year by the National Roofing Contractors Association, 2 Pierce Place, Suite 1200, Itasca, IL 60143. Periodicals postage paid at Itasca, IL, and additional mailing offices. Postmaster: Send address changes to *Professional Roofing*, 2 Pierce Place, Suite 1200, Itasca, IL 60143.

Statements of fact and opinion are made on the responsibility of author alone and do not imply an opinion on the part of the officers or the membership of NRCA. No part of this publication may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopy, recording, or any information storage and retrieval system, without permission in writing from the publisher.

NRCA

The official publication of the National Roofing Contractors Association

Copyright 2025 • Printed in the United States

/nrcainfo | /national-roofing-contractors-association | /NRCAnews | /nrcanews | TikTok /roofingwithNRCA

TITAN XT®

PREMIUM ARCHITECTURAL SHINGLES

"We've at least installed over 15,000 TAMKO® Roofs.
When it comes to building products, time really tests all...
TAMKO's products really stand the test of time."

Kody Randlett
Kris Konstruction

TAMKO PRO™
PLATINUM

Discover how Titan XT® shingles are Built Tough.

Scan the QR code
to request a sample.

TAMKO®

TAMKO Pro Certified Contractors are not employees, agents or representatives of TAMKO; however, they may receive certain benefits, such as marketing support, product rebates, access to third-party discounts and the ability to offer Enhanced Limited System Warranties.

Membranes stay clean

GAF has made available its MembraneShield™ Temporary Dirt-Blocking Film for EverGuard® TPO membranes.

The monolayer protective sheet reportedly helps keep the TPO membrane clean during installation, protecting new membranes from dirt, footprints, equipment tracks and wind-blown spray. It is available on EverGuard 60- and 80-mil smooth TPO membranes and EverGuard 60-mil Fleece-back membranes.

gaf.com

Tape protects against moisture

Polyglass U.S.A. Inc. has introduced its Polystrip™ SA, a nonreinforced, self-adhering roof deck joint tape designed to provide a watertight seal to roof deck joints, reportedly protecting against moisture infiltration caused by wind-driven rain, ice dams and other severe weather during which the roof covering or underlayment may be compromised.

The tape is made of an ultraviolet- and slip-resistant film laminated to an aggressive elastomeric SBS polymer-modified asphalt self-adhering compound and release paper said to allow for faster installation.

Polystrip SA is compatible with Polystick® and Polyanchor® underlayments.

polyglass.us

Eliminate manual invoicing

Roof Chief has launched its integrated payment processing feature, allowing contractors to accept credit cards, ACH bank transfers and digital wallet payments through the Roof Chief platform. The feature reportedly eliminates the need for third-party payment tools or manual invoicing.

roofchief.com

Liquid flashing is versatile

TYPAR® has launched TYPAR Liquid Flashing, an elastomeric liquid flashing designed for air and water sealing.

The flashing reportedly adheres to a wide range of construction materials including concrete, glass, metals, oriented strand board, plywood and PVC. Suitable for rough openings and joint details, it can be applied in temperatures as cold as 50 F and is solvent- and isocyanate-free.

typar.com

Snow guards can be used for various roof types

Rocky Mountain Snow Guards has made available its Everest Guard® EG10 and EG16.

Available in black, dark bronze and harbor gray, the welded-steel snow guards feature a pre-drilled strap that reportedly allows for nail or screw fastening.

The 10-inch Everest Guard EG10 is designed for new and retrofit roof installation projects. It reportedly can be used on metal shingle, cedar shake and shingle, synthetic slate and shake, as well as asphalt shingle roof types. The 5.8-inch strap features a versatile hole pattern.

The 16-inch Everest Guard EG16 features an 11.8-inch strap and is designed for new roof systems. It can be used for cedar and shake shingle, synthetic slate and shake and natural slate roofs.

Both snow guards feature a 4.28-square-inch pad area.

rockymountainsnowguards.com

Progressive Casualty Insurance Co. & affiliates.

STAND UP TO YOUR MONSTER TO-DO LIST? ☑ SAVE MONEY? ☑

Small business owners' to-do lists can add up. So see if you can save money on a commercial auto quote at **ProgressiveCommercial.com.**

PROGRESSIVE® COMMERCIAL

Get a quote online in as little as 8 minutes

Who you gonna call?

CEOs and other leaders must cultivate a support system

by McKay Daniels

In the previous issue, I wrote about the importance of not griping down. Someone commented that managers can gripe up to their supervisors, but what about senior leaders, owners or CEOs? Who can they gripe to? What are they supposed to do for support, advice or venting? These are fair questions.

Studies show business owner and CEO isolation is a real issue and is why the phrases "It's lonely at the top" or "Heavy is the head that wears the crown" exist. Or possibly why the hip-hop artist The Notorious B.I.G. wrote the song "Mo Money Mo Problems"!

The responsibilities and hierarchy of leadership roles can cause company owners or CEOs to lack the support networks or griping partners they may need to succeed or be happy in their roles.

Loneliness, burnout and isolation are trending the wrong way. The average CEO tenure has decreased 34% since 2017;

Making friends you can gripe to, ask embarrassing questions or share best practices can be a tremendous emotional and business resource

39% of CEOs last between one and five years.

The shorter service life of leaders is more difficult on companies' teams and performance because continuity and long-term strategy can suffer with shorter stints. Churn can be incredibly disruptive.

So back to the original question: What can an owner or CEO do when they can't gripe down? Not griping at all is not the answer. Being the character in the Simon and Garfunkel song "I am a Rock" won't get you anywhere ... or anywhere good at least.

Here's what you could do instead:

- **Get yourself a peer group.** There are formal and informal groups of owners or CEOs in almost every community. Vistage, Young Presidents Organization, Entrepreneurs Organization, Chief Executive Network and CEO Roundtable are examples of organized groups to consider. They often consist of a cross-section of leaders from a given community. Contractors also develop informal, self-administered groups. For example, one of the strongest resources that comes out of NRCA's Future Executives Institute program is the informal peer group that emerges with each graduating class. Students remain in contact with each other and get together in person or via Zoom regularly for years after the conclusion of the program. Finding noncompetitor peers within the industry or an association has served small and large contractors well over the years.
- **Cultivate trusted relationships.** These can be within NRCA, the roofing industry or your community. Making friends you can gripe to, ask embarrassing questions or share best practices can be a tremendous emotional and business resource.
- **Build a strong leadership team.** Making your company's hierarchy look more like a plateau versus a mountain peak can help tremendously. Being the one person doing it all and the single point of failure or success can be incredibly lonely and stressful. But if you have a cadre of teammates to share the load and spread the work, it can make things more sustainable.
- **Talk with a coach or a mentor.** Similar to peer groups, this can be formal or informal. You can hire an executive coach or work with a person whose experience and expertise you respect—whether within the roofing industry or not. Many issues we encounter involve roofing, but they're not about roofing. They are related to strategy, human resources or financial issues. A mentor can help you see your problem through a different lens and help you navigate it. After all, we all have blind spots. The odds of us seeing our own is slim; that's why they are called blind spots! A close friend, coach or mentor can help.

Tom Hanks' movie character says we don't gripe down, and if you're at the top you can't gripe up. But that doesn't mean you turn into an island and are forced to be alone. Instead, look to your left and right and channel Bill Withers' song "Lean on Me."

Call on me, brother, when you need a hand

We all need somebody to lean on

I just might have a problem that you'll understand

We all need somebody to lean on.

MCKAY DANIELS is NRCA's CEO.
MDANIELS@NRCA.NET

Amrize debuts as independent, publicly traded company

Amrize has announced its debut as an independent, publicly traded company with the completion of its 100% spin-off from Holcim. Amrize shares began trading June 23 on the New York Stock Exchange and the SIX Swiss Exchange under the ticker symbol "AMRZ."

Amrize is the largest building solutions company focused exclusively on the North American market with more than 1,000 operational sites and more than 19,000 employees.

In May, Holcim shareholders approved the spin-off of Amrize from Holcim with a 99.75% vote in favor of the action. The spin-off is completed via the distribution of a dividend-in-kind of one Amrize share for every Holcim share owned as of the close of business June 20.

"This is an exciting day for all our teammates across North America as we begin our journey together as Amrize," says Jan Jenisch, Amrize chairman and CEO. "As an independent, publicly traded company, Amrize will capitalize on North America's construction market driven by long-term mega-trends from infrastructure modernization and onshoring of manufacturing to data center expansion and the opportunity to bridge the housing gap.

"It has been a privilege to be part of Holcim since 2017, and I thank the entire Holcim team for their outstanding performance and contributions over the years, including the exceptional execution of our spin-off creating two distinct, independent champions," Jenisch continues. "I wish the Holcim team every success as they begin their next chapter."

GAF appoints new CEO and COO

Barkhouse

Standard Industries, New York, and GAF, Parsippany, N.J., have announced the appointment of John Barkhouse as CEO of GAF effective Jan. 1, 2026. At that time, current GAF CEO John Altmeyer will transition to the role of GAF's executive chairman.

Since joining GAF as president in 2024, Barkhouse has led manufacturing, supply chain, and research and development for GAF's residential and commercial divisions. Previously, he spent more than 25 years in manufacturing and operational leadership roles in the industrial, energy and services sectors.

"John Barkhouse is a collaborative, strategic leader who has gotten to know our business and our people, and I couldn't be more confident that he is the right person to serve as the next CEO of GAF," Altmeyer says. "It has been the honor of my career to lead this company, and I look forward to continuing to support John and the team in all that's to come."

Peetz

Additionally, GAF has made Chris Peetz the company's new chief operations officer. Reporting to Barkhouse, Peetz will drive operational efficiency and strategic improvements across the company's manufacturing sites and supply chain.

"I'm delighted to join GAF and look forward to expanding its reputation as an industry leader," Peetz says. "I share John's commitment to continuous improvement, efficiency and customer experience. I look forward to working with our exceptional teams to build on the tremendous success GAF has had to date."

Signs of mental distress

September is National Suicide Prevention Month. It is important to watch for the following common signs of mental distress, according to *Safety+Health* magazine:

- Arguing more or becoming more easily frustrated with family, friends or co-workers
- Changes in appetite or sleep patterns
- Difficulty focusing or making decisions
- Feeling physically or mentally drained
- Feeling sad, lonely, numb or worried
- Increased use of alcohol or drugs

If you experience these signs of stress, *Safety+Health* magazine recommends reaching out to a supervisor, human resources representative, health care provider or employee assistance program.

It also is important to be aware of your co-workers' safety and well-being. Watch for co-workers who disclose significant stress; share mental health conditions such as depression and anxiety; fail to fulfill major life responsibilities such as work or financial obligations; and withdraw from important relationships.

NRCA's mental health resources are available at betoughenough.org.

Diane Hendricks again tops *Forbes* list of richest self-made women

Diane Hendricks, co-founder and chairman of NRCA member ABC Supply Co. Inc., Beloit, Wis., has topped the list of America's Richest Self-made Women in *Forbes* magazine for the eighth consecutive year.

Worth $22.3 billion, Hendricks chairs one of the largest wholesale distributors of roofing, siding and windows in the U.S.; ABC Supply has more than 900 branch locations and had $20.7 billion in sales in 2024.

According to *Forbes* magazine, Hendricks is a Wisconsin native who grew up on a dairy farm. She started ABC Supply in 1982 with her late husband, Ken, and has chaired the company since his death in 2007. Under her leadership, ABC Supply made the two biggest acquisitions in its history: buying rival Bradco in 2010 and building materials distributor L&W Supply in 2016.

Hendricks has spent millions on local economic development, rebuilding entire blocks in Beloit and bringing several new businesses into the state.

In addition, Hendricks and her daughter, real estate broker Konya Hendricks Schuh, work to revitalize Beloit in the new A&E show "Betting on Beloit," according to the *Milwaukee Journal Sentinel*. Hendricks Schuh and her team purchase, restore and reimagine historical homes in Beloit and Hendricks finances the revitalization. The team's mission is to turn "once-neglected properties into vibrant dream homes for individuals and families ready to plant new roots in Beloit."

POLYGLASS®
MAPEI GROUP

When Every Second Counts, So Does Each Layer.

Burn-Shield Technology®. Proven Protection When It Matters Most

Burn-Shield Technology® roofing solutions are engineered to slow the spread of flame and resist ignition from wind-blown embers—**giving you time when it matters most.**

- Class A fire-rated (ASTM E108)
- WUI-compliant (California Title 24)
- CAL FIRE Building Materials List
- Waterproofing performance
- Low- and Steep-Slope System Options

WESTERN Roofing EXPO

VISIT US AT BOOTH 333

Scan to Explore Our Burn-Shield Systems

polyglass.us

Drain sump details

Drain sumps are an important consideration for roof systems

by Maciek Rupar

A drain sump is an intentional depression around a roof drain or scupper that promotes drainage. Drain sumps reduce the potential for localized ponding that could be caused because of a buildup of materials and a drain clamping ring.

NRCA recommends drain sumps at all internal drain locations. Drain sumps may not be necessary if tapered insulation systems provide adequate slope for drainage.

Drain sumps should be square or rectangular and sloped toward the drain(s) located inside. For roof systems with above-deck insulation, drain sumps typically take advantage of the finished roof surface elevation above the roof deck created by roof insulation. Drain sumps are constructed using pre-cut tapered sump insulation products or tapered insulation boards that are field-cut and assembled to provide a four-way slope from the sump perimeter to the drain(s). The tapered sump slope is greater than the roof slope to ensure no localized ponding at drain locations.

Commonly available prefabricated sump products are square; 4 or 8 feet per side; offered with a minimum thickness between ½ of an inch and 1½ inches; and sloped for drainage at ¼ of an inch, ⅜ of an inch or ½ of an inch per foot.

NRCA suggests drain sump width be at least the size of a drain bowl's diameter plus 24 inches to allow for correct drain flashing installation. For example, if a drain bowl's diameter is 12 inches, the drain sump should not be smaller than 36 inches by 36 inches (see Figure 1). When tapered drain sumps are used, the sump slope should be greater than the roof slope including where tapered insulation provides the roof slope.

When primary and overflow drains are located inside a common sump, they should be spaced to allow for correct drain flashing installation. The tapered four-way slope sump should have a rectangular footprint. The long dimension should be extended by a distance equal to the drain diameter plus the edge-to-edge distance between the drain bowls along the primary drain-overflow axis. NRCA suggests the edge-to-edge spacing between drains be a minimum of 12 to 18 inches to allow for proper flashing of each drain (see Figure 2).

NRCA cautions against using round or deeply recessed, sharply sloped sumps because they can create membrane wrinkling where the membrane transitions into the sump, extends over the inner flange of the drain bowl and secures with the clamping ring.

Using metal sump pans is not advised unless the undersides of the metal sump pans are insulated to prevent condensation and a membrane can be applied into the pans without wrinkling. However, metal receiver pans can be beneficial with several types of roof decks and low-slope membrane systems because they increase the bearing area of the outer drain flange onto the deck.

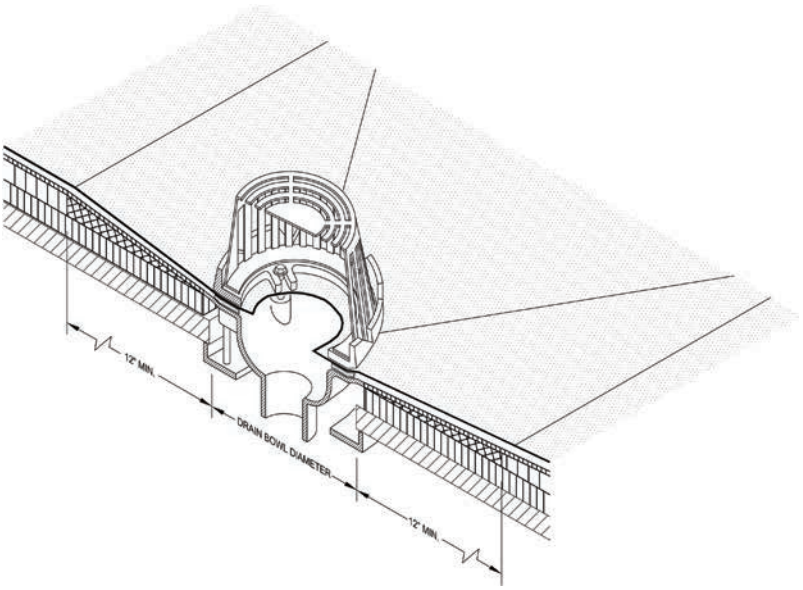


Figure 1: Minimum drain sump width

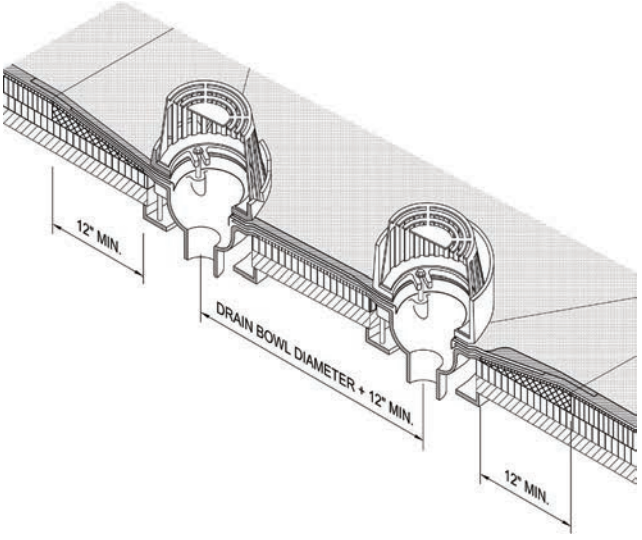


Figure 2: Drain sump guidelines (combination primary and overflow drain)

Additional information about drain sumps can be found in *The NRCA Roofing Manual: Membrane Roof Systems—2023* Section 4.15—Tapered Insulation and Section 10.1—Information Applicable to All Construction Details.

MACIEK RUPAR is an NRCA director of technical services.

Study shows construction leaders plan to invest in workforce development

An industry report from Bridgit reveals 98% of construction leaders plan to increase investments in workforce planning during the next year; nearly all intend to turn to artificial intelligence, automation and advanced analytics to navigate the construction industry's labor crisis, according to For Construction Pros.

The 2025 State of Workforce Planning report surveyed hundreds of construction executives across operations, project management, human resources and business development regarding their strategies to combat rising labor costs, an inability to take on new projects and employee burnout.

Key findings include:

- 93% of construction leaders report labor shortages are directly affecting operations, driving up costs, limiting project capacity and straining teams.
- 71% of companies depend on spreadsheets and whiteboards to manage workforce planning.
- 99% plan to integrate AI, automation and forecasting tools into their workforce strategies in the next 12 months with more than 75% budgeting more than $100,000 for these upgrades.

Leaders identified the following challenges:

- Improving training programs
- Increasing employee engagement
- Maximizing utilization and identifying skills gap
- Forecasting workforce needs

Leaders say they urgently need the following:

- Automation and AI features to anticipate labor needs and optimize teams
- Forecasting and analytics to make informed, proactive decisions
- Integration capabilities to connect workforce data with customer relationship management, human resources, project management and enterprise resource planning systems

Seventy-three percent of survey respondents believe the collective experience of a project team is very significant in creating successful project outcomes. Improved retention and a stronger competitive edge also were cited.

Report highlights New York City construction safety successes

Total recordable injury incidents at New York City construction sites hit a 10-year low and deaths remained at a decade low, according to New York City's Department of Buildings.

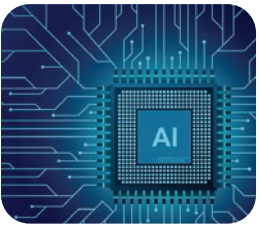
The department's annual Construction Safety Report shows building construction-related injuries fell to 482 in 2024 from 692 the previous year. The total number of incidents dropped to 638 from 841, marking a 24% decrease in 2024.

Seven deaths were recorded in 2024, matching the 2023 total—the lowest number recorded during the past 10 years.

The Department of Buildings conducted more than 416,000 worksite inspections in 2024, the most since it began tracking the metric. In addition, 98% of worksites didn't report a single incident or injury.

The safety improvements came amid continued growth in construction and new Department of Buildings oversight strategies, including requirements for construction superintendents, new licensing requirements for smaller crane devices and technologies to help track worksite safety compliance.

"New Yorkers deserve safe workplaces, and that includes our city's construction sites," says Eric Adams, mayor of New York City. "We are making significant progress toward that goal. Nevertheless, we know that even one death at our construction sites is unacceptable, which is why our administration will continue to implement historic safety initiatives and keep up the fight for safer construction sites across the city."



AI assistants versus AI agents

In the rapidly evolving field of artificial intelligence, it is important to distinguish between AI assistants and AI agents, particularly within construction software as a service, according to Construction Executive.

An AI assistant simplifies daily tasks by directly responding to user instructions. Construction professionals often use AI assistants for generating site reports through verbal commands, automating tedious paperwork and capturing precise, real-time field data.

AI agents function more autonomously by taking initiative beyond explicit commands. They analyze complex information—such as extensive project documentation—independently identifying issues, ensuring compliance and recommending strategic actions.

Adopting AI-driven technologies shifts the focus from reactive problem-solving to proactive management. By harnessing AI-driven data collection, routine activities become strategic data points, which can enhance operational insights and project efficiency.

NRCA white paper addresses PV-ready roofs

Photovoltaic-ready roofs refer to building roof systems specifically designed and constructed to accommodate PV solar energy installations. This approach capitalizes on underused roof space for solar power generation, offering advantages over ground-mounted PV systems such as space efficiency, security and direct electrical integration.

NRCA has released a white paper that addresses key considerations of PV-ready roofs, including the selection of roofing materials and systems with service lives that match or exceed that of the PV installation; compliance with relevant codes and standards; and the involvement of qualified roofing contractors and licensed electricians to ensure proper installation and maintain warranties.

The white paper is available at nrca.net/roofingguidelines/library.

MEMBERSHIP IS YOUR HOME FOR:

- TECHNICAL RESOURCES
- MONEY-SAVING BUSINESS RESOURCES
- WORKFORCE RECRUITMENT AND RETENTION TOOLS
- EDUCATIONAL AND TRAINING RESOURCES
- ADVOCACY

Take advantage of all NRCA membership has to offer. Explore your benefits at **nrca.net/max-memb** or let us guide you through them. **Call us at (800) 323-9545.**

Reshaping regulations

NRCA testifies at OSHA's heat rulemaking hearing

by Cheryl Ambrose, CHST, OHST

The Occupational Safety and Health Administration held informal public hearings about its proposed heat injury and illness prevention standard June 16 through July 2. NRCA testified alongside other construction industry stakeholders, expressing concerns about the rule's feasibility, particularly for small- and mid-sized businesses.

As NRCA's vice president of enterprise risk management, I delivered testimony, emphasizing the unique demands of roofing work and the need for a flexible, risk-based approach to heat safety. My testimony pointed out several key issues with the proposed rule, including the burdensome requirements for continuous monitoring, rigid heat trigger thresholds that fail to account for regional climates and an overall lack of adaptability for diverse job-site conditions.

NRCA urges OSHA to adopt a performance-based standard that allows employers to implement heat safety measures appropriate to their specific work environments instead of

prescriptive mandates. The association highlighted successful industry practices—such as voluntary heat stress training, access to water and rest breaks, and site-specific hazard assessments—as more practical and effective strategies.

NRCA's testimony underscored the roofing industry's long-standing commitment to heat safety and proactive risk management. The organization reaffirmed its willingness to work collaboratively with OSHA to develop a reasonable and effective standard. NRCA will submit post-hearing comments by the Sept. 30 deadline, addressing OSHA's follow-up questions and reinforcing recommendations.

Rulemaking changes

Effective July 1, as part of the Trump administration's broader deregulatory initiative to reduce unnecessary government procedures and increase efficiency, numerous deregulatory actions and procedural changes to the regulatory and rulemaking process across many federal departments and agencies were announced in the *Federal Register*.

The Department of Labor advanced more than 60 proposals to eliminate or revise workplace safety regulations considered outdated, duplicative or unnecessarily inflexible. OSHA has issued Notices of Proposed Rulemaking affecting 26 standards with several notable changes related to construction.

Advisory committee

OSHA has revoked construction advisory regulations, removing procedural requirements that previously required DOL's assistant secretary for occupational safety and health to consult with the Advisory Committee on Construction Safety and Health for construction standards rulemaking. The final rule reduces the size of the committee from 15 members to nine, aiming to streamline the rulemaking process for construction standards and alleviate administrative burdens and delays. The committee can still advise the assistant secretary for occupational safety and health but without impeding the agency's regulatory agenda.

Recording and reporting

OSHA has formally withdrawn the proposal to revise the OSHA 300 Log and add a column employers would use to record work-related musculoskeletal disorders, concluding it would not provide additional, meaningful information. This decision does not alter the criteria or definitions for recording injuries and illnesses and retains all employer obligations for injury and illness record keeping.

Respiratory protection

OSHA has proposed removing the medical evaluation requirement for workers wearing filtering facepiece respirators and loose-fitting powered air-purifying respirators. Medical evaluations for other types of respirators, such as tight-fitting or supplied-air respirators, would remain unchanged. This proposed change is expected to create cost savings for employers while reducing regulatory burden.

In addition, OSHA is proposing revisions to respirator provisions for its lead standard to align the substance-specific standard with the general Respiratory Protection standard, 29 CFR 1910.134, allowing employers more flexibility in respirator selection. It would also remove overly prescriptive requirements, such as mandatory use of full-facepiece respirators or high-efficiency particulate air filters where equally protective alternatives exist.

Similar to the lead standards, OSHA also is proposing to revise respirator-related provisions for its asbestos standard where they are unnecessarily prescriptive, which would result in employers having greater flexibility in the respirators they select for exposed workers while providing equivalent worker protection.

> NRCA urges OSHA to adopt a performance-based standard that allows employers to implement heat safety measures appropriate to their specific work environments instead of prescriptive mandates

For example, the revisions would enable employers to select respirators based on assigned protection factors and eliminate requirements for specific respirator types. OSHA's prohibitions regarding the use of filtering facepiece respirators for asbestos would remain unless evidence supports the adequacy of their use. The proposed standard is intended to account for modern knowledge and technology and to streamline the selection of respirators.

Construction Illumination Standard

OSHA proposes to remove from the Code of Federal Regulations OSHA's Construction Illumination Standard, 29 CFR 1926.26 and 1926.56. OSHA's Construction Illumination Standard requires construction areas, aisles, stairs, ramps, runways, corridors, offices, shops and storage areas where work is in progress be illuminated with either natural or artificial light. The minimum illumination requirements for work areas are contained in Subpart D, 29 CFR 1926.56. OSHA proposes removal of the standard because it has determined it is not "reasonably necessary or appropriate" under section 3(8) of the OSH Act 29 U.S.C. 652 because it does not reduce a significant risk to workers.

What's ahead

NRCA will continue to remain engaged with these rulemaking proposals and potential changes and provide updates as they become available. Additional information regarding *Federal Register* notices about deregulatory actions is available at federalregister.gov.

CHERYL AMBROSE, CHST, OHST, is NRCA's vice president of enterprise risk management.

Company and its president plead guilty to fraudulent actions

Alexander Shaporov, former president of training school Valor Security and Investigations, Brooklyn, N.Y., pleaded guilty after being charged with selling construction safety certificates and Occupational Safety and Health Administration training cards to about 20,000 untrained individuals, according to *Safety+Health* magazine.

Shaporov and Valor Security and Investigations each pleaded guilty to one count of attempted enterprise corruption, 10 counts of offering a false instrument and one count of reckless endangerment.

Shaporov is expected to be sentenced Oct. 3 with a promised term of one year in jail, 100 hours of community service and a $100,000 fine. Valor Security and Investigations has lost its security license.

Beginning in December 2019, Valor Security and Investigations arranged with brokers to obtain 40-hour safety cards, supervisor cards and specialized training cards and charged people between $300 and $600 for the fake cards. The cards were sold through April 2023.

In 2022, a New York City worker with fraudulent training paperwork died after falling from the 15th floor of a building under construction.

DOL updates penalty guidelines and aims to improve workplace safety

The Department of Labor updated its guidance regarding penalty and debt collection procedures in the Occupational Safety and Health Administration's *Field Operations Manual* to minimize the burden on small businesses and reduce the number of workplace hazards, according to an OSHA news release.

Outlined in the Penalties and Debt Collection section of OSHA's *Field Operations Manual*, the new policy increases penalty reductions for small employers, reportedly making it easier for small businesses to invest resources in compliance and hazard abatement. For example, a penalty reduction level of 70% applicable to businesses with 10 or fewer employees has been expanded to include businesses that employ up to 25 employees. Additionally, there are new guidelines for a 15% penalty reduction for employers that immediately take steps to address or correct a hazard.

The policy also states employers that have never been inspected by federal OSHA or an OSHA State Plan—as well as employers that have been inspected during the previous five years and had no serious, willful or failure-to-abate violations—now are eligible for a 20% penalty reduction.

The new guidelines take effect immediately. Penalties issued before July 14, 2025, will remain under the previous penalty structure. Open investigations in which penalties have not yet been issued are covered by the new guidance.

"All employers should be offered the opportunity to comply with regulations that help maintain a safe working environment," says Deputy Secretary of Labor Keith Sonderling. "Small employers who are working in good faith to comply with complex federal laws should not face the same penalties as large employers with abundant resources. By lowering penalties on small employers, we are supporting the entrepreneurs that drive our economy and giving them the tools they need to keep our workers safe and healthy on the job while keeping them accountable."

ESSENTIAL ROOFING SUPPLY

888-330-0377

#12 - #14 - #15 LOW SLOPE ROOF FASTENERS

EXAMPLE PRICING

SIZE	QUANTITY	LENGTH	PRICE
#12	1,000	2”	$84.07
#12	1,000	5”	$187.69
#14	1,000	2”	$98.13
#14	1,000	4”	$184.78
#15	1,000	3”	$144.33
#15	500	6”	$166.09
Insulation Plate	1,000	3”	$119.99
Barbed Seam Plate	1,000	2 - 3/8”	$129.99

CHECK OUR NEW PRICING SHEET

GET IN TOUCH WITH US!

888-330-0377

PURCHASING@ESSENTIALROOFINGSUPPLY.COM

CONTACT US TO BECOME A SALES REPS

MANUFACTURED IN NORTH AMERICA & ASIA

FM APPROVED

ASTM INTERNATIONAL

ISO

FREE SHIPPING ON ALL ORDERS

- SUPERIOR PERFORMANCE
- EXCELLENT CUSTOMER SERVICE
- FREE SHIPPING

ABC releases guide regarding safety best practices

Associated Builders and Contractors released its annual guide to construction job-site health and safety best practices. The report is based on 2024 data from organizations that take part in ABC's STEP Safety Management System. ABC collects each organization's Occupational Safety and Health Administration Form 300A data and self-assessment of leading indicator practices from its STEP application.

After analyzing the data, which covers more than 1 billion work hours completed by participants in the construction, heavy construction, civil engineering and specialty trades, ABC identified five foundations of industry-leading safety best practices:

- **New hire safety orientation.** Employers that conduct orientation regarding health and safety culture, systems and processes have total recordable incident rates 52% lower than employers that limit their orientations to basic health and safety compliance. In addition, days away, restricted or transferred rates are reduced 56%.
- **Substance-abuse prevention programs.** Substance-abuse prevention programs and policies with provisions for drug and alcohol testing, where permitted, led to a 52% reduction in total recordable incident rates and a 55% reduction in days away, restricted or transferred rates.
- **Frequent toolbox talks.** Employers that conduct daily toolbox talks experience a 78% reduction in total recordable incident rates and a 79% reduction in days away, restricted or transferred rates compared with those that conduct them monthly.

- **Top management engagement in safety best practices.** Top management engagement led to a 49% reduction in total recordable incident rates and a 52% reduction in days away, restricted or transferred rates.
- **Leading indicators.** Tracking and reviewing activities to prevent and control injuries, including safety training, led to a 59% reduction in total recordable incident rates and a 60% reduction in days away, restricted or transferred rates.

Report released regarding roofing worker's death

After three years of investigation, a report was issued regarding the death of a 29-year-old roofing worker who fell 45 feet through a skylight while performing work on a large industrial building, according to *Safety+Health* magazine. The worker was part of a crew installing roof insulation and skylights and had worked for his employer for 16 months.

The report from the Washington State Fatality Assessment & Control Evaluation Program says a framing crew signaled the roofing worker and his co-worker to carry a skylight lid to cover a hole. The roofing workers lifted a 4- by 8-foot lid at opposite ends, but after taking a half step forward, the co-worker heard the roofing worker's end drop. When he looked back, he did not see the roofing worker, who had fallen 45 feet through a hole they did not know was under the lid. The co-worker and foreman ran downstairs and found the roofing worker unresponsive. Although several workers called 911 and began CPR, the first responders could not save him.

Investigators found the roofing workers were not experienced or trained in skylight installation. They also found visibility on the roof was affected by bundles of insulation; roofing workers were not using fall protection within warning lines where skylight holes were present; and a boom light basket, which had been moved from below the hole before the fall happened, was being used as a fall-catch platform, which was against the manufacturer's safety guidelines and state fall-protection rules.

To help prevent similar incidents, investigators say employers should do the following:

- Provide fall-protection guardrails, screens, covers, warning lines, safety nets or personal fall-protection

systems for roofing workers working around skylights and openings, and keep the area organized.
- Arrive on-site before work begins or appoint a supervisor to conduct a site hazard assessment with workers to identify fall hazards and develop protection methods and procedures in the fall-protection work plan.
- During the pre-job safety meeting, review the site hazard assessment and fall-protection work plan and emphasize workers' responsibilities to follow fall-protection and roof and skylight safety requirements.

NRCA's classes, webinars and products offer information to ensure you can keep your employees safe on job sites. For more information, go to nrca.net/safety.

Upskill and Onboard your teams!

ROOFING ALLIANCE
The Foundation for the Industry

CLEMSON UNIVERSITY

ENROLL TODAY!

The Roofing Alliance and Clemson University have designed three self-paced, online training courses to help educate industry professionals.

Roofing Fundamentals

In this self-paced, online course, participants study the nomenclature, building materials, estimating, safety, technology and assembly of roof systems.

Roofing Management

This online course focuses on building function, building codes, scheduling, risk management, field crew management, quality control and the assembly of different roof systems.

Roofing Business Principles and Leadership

This online course focuses on the business aspects of managing and sustaining a roofing company.

Nonmember price: $895 each | NRCA member price: $795 each | Roofing Alliance member price: $595 each

SPECIAL BULK PRICING DISCOUNTS AVAILABLE!

systems for roofing workers working around skylights and openings, and keep the area organized.
- Arrive on-site before work begins or appoint a supervisor to conduct a site hazard assessment with workers to identify fall hazards and develop protection methods and procedures in the fall-protection work plan.
- During the pre-job safety meeting, review the site hazard assessment and fall-protection work plan and emphasize workers' responsibilities to follow fall-protection and roof and skylight safety requirements.

NRCA's classes, webinars and products offer information to ensure you can keep your employees safe on job sites. For more information, go to nrca.net/safety.

Upskill and Onboard your teams!

ROOFING ALLIANCE
The Foundation for the Industry

CLEMSON UNIVERSITY

ENROLL TODAY!

The Roofing Alliance and Clemson University have designed three self-paced, online training courses to help educate industry professionals.

Roofing Fundamentals

In this self-paced, online course, participants study the nomenclature, building materials, estimating, safety, technology and assembly of roof systems.

Roofing Management

This online course focuses on building function, building codes, scheduling, risk management, field crew management, quality control and the assembly of different roof systems.

Roofing Business Principles and Leadership

This online course focuses on the business aspects of managing and sustaining a roofing company.

Nonmember price: $895 each | NRCA member price: $795 each | Roofing Alliance member price: $595 each

SPECIAL BULK PRICING DISCOUNTS AVAILABLE!

ALL YOU NEED FOR YOUR ROOF UNDER OURS

Duro-Last® was founded on the idea of controlling quality from top to bottom.

Producing high-quality PVC roofing membranes, custom-fabricated accessories, edge metal and fasteners in-house provides superior waterproofing and long-term leak protection. Save time and money by procuring all your roofing system components from a single supplier.

Learn the benefits of installing Duro-Last roofs: 800.248.0280

duro-last.com

DURO-LAST®
THE WORLD'S BEST ROOF®

Duro-Last is a brand of Amrize Building Envelope LLC.
"Duro-Last" and the "World's Best Roof" are trademarks in the Amrize portfolio.

It's time to implement total worker well-being in roofing

by Cheryl Ambrose, CHST, OHST

Every day, roofing workers climb steep slopes, endure extreme heat and engage in physically demanding tasks that put them at significant risk of injury. For decades, the industry has made commendable strides in traditional safety. Occupational Safety and Health Administration compliance, fall-protection systems and training, ladder safety, personal protective equipment and best practices are now standard expectations on job sites nationwide. These measures have saved lives and prevented injuries.

However, roofing professionals are recognizing a broader responsibility that goes beyond physical safety. As the workforce changes and expectations evolve, many contractors are asking: What does it truly mean to protect our workers?

The concept of total worker well-being is an integrated, holistic approach that not only addresses the prevention of injuries and illnesses but also promotes health, mental resilience and quality of life. The National Institute for Occupational Safety and Health created the concept formally known as Total Worker Health,® which urges employers to consider everything that affects a worker's performance and long-term health.

Shifting paradigm

NIOSH defines Total Worker Health as "policies, programs and practices that integrate protection from work-related safety and health hazards with promotion of injury and illness-prevention efforts to advance worker well-being." This can include stress, fatigue, mental health, hydration, nutrition and even financial security. In high-risk occupations such as roofing where even brief lapses in attention can result in serious injury, addressing these factors is just as crucial as wearing the right PPE.

Casey Chosewood, former director of NIOSH's Office for Total Worker Health, sums it up this way: "A safe worker is not just someone who avoids injury. It's someone who shows up healthy, alert and supported in every way that affects their ability to do the job."

Historically, safety programs have focused on compliance, ensuring job-site practices align with OSHA standards to prevent incidents such as falls, electrocutions and struck-by accidents. These efforts remain critical, but contractors are encountering new challenges among their workforce such as chronic stress, burnout, substance misuse and mental fatigue. These can lead to more serious outcomes such as serious injury, fatalities and even suicide. These issues can directly affect safety, performance and crew cohesion.

Roofing workers often face a perfect storm of physical risks and psychological stress. Long hours under extreme weather conditions, irregular work

BEYOND HARNESSES

schedules and physical strain can take a toll on even the most experienced workers. Add to that personal and family challenges that could include lack of access to health care and stigma surrounding mental health, and it becomes clear simply handing out PPE is no longer enough.

According to data from the Bureau of Labor Statistics, roofing workers had a fatal work injury rate in 2023 of 51.8 per 100,000 full-time equivalent workers, which is lower than the rate of 57.5 in 2022; however, it remains significantly higher than the average for the construction industry.

In 2023, the construction industry as a whole experienced 1,075 workplace fatalities, but construction workers are five to six times more likely to die by suicide, overdose or consequences of addiction than in a job-site accident. This is a stunning statistic, yet it shows mental wellness should be as important as physical safety.

Mental health and job safety

A worker who is physically present but mentally distracted because of off-the-job pressures is at greater risk of making a critical error. This also is known as presenteeism, when an employee is physically present but not fully engaged or productive.

Unaddressed issues also can lead to lost productivity, absenteeism, missed deadlines, safety risks and errors. These can happen for many reasons, such as illness, stress or mental health issues, and can ultimately affect team dynamics, productivity and overall workplace morale.

If a worker is running on minimal or no sleep, upset about something at home, or reporting to work hungover or impaired, there are likely warning signs the worker is struggling. Other signs something isn't right might include missing a critical step or warning, snapping at a co-worker, checking out during safety talks or forgetting important information, potentially placing themselves and others at risk. By addressing mental health risks alongside physical hazards, you can help enhance focus, strengthen decision-making and teamwork,

and realize overall improvements in job-site performance.

Total worker well-being

Recognizing these challenges, a growing number of roofing contractors are integrating mental health into their safety cultures.

The concept may seem complex, but implementation often begins with simple changes. Supervisors who enforce regular water breaks and check in with crew members set a tone that encourages openness and self-care. Scheduling work earlier in the day during the summer, providing shaded areas and hydration stations, and incorporating discussions about stress and fatigue into toolbox talks are practical steps that can yield measurable benefits by making it acceptable to bring well-being into the conversations about physical safety.

In practice, this means addressing not just what happens on a job site but also the broader context of a worker's life that affects his or her ability to stay safe, healthy and productive.

This can include:

- Mental health and substance use educational support
- Fatigue management
- Healthy eating and hydration habits
- Positive job-site culture and worker engagement

In the roofing context, total worker well-being might also involve scheduling flexibility to manage heat stress; offering counseling resources; or

simply creating space during safety meetings to talk about stress, sleep and emotional well-being.

Kara McCaffrey, part-owner and chief wellness officer for Houck Services, Harrisburg, Pa., says her company's employee assistance program had few, if any, employees taking advantage of the free service. As a result, company leadership began informing employees about the EAP so they knew it existed and what it could do to help. Employees received texts and emails about the EAP, and the company created posters, newsletters and toolbox talks. Following these efforts, the average number of referrals to the EAP per month increased fivefold.

But programs, procedures and training requirements can only do so much. Job-site culture determines whether total worker well-being strategies take root. The most effective efforts go beyond compliance to create environments where workers feel heard, supported and safe speaking up. That starts with leadership.

When leadership normalizes conversations about mental health and wellness, workers begin to see well-being as part of the job and not a personal issue to hide. Encouraging peer support and proactive check-ins, especially during extreme heat or tight project deadlines, can help identify concerns early. Some contractors use daily briefings not only to review tasks and hazards but also to ask how workers are feeling or whether anyone needs support.

Asking how workers slept, offering extended breaks during heat waves, or connecting crew members to local counseling or recovery resources may seem like minor gestures. But over time, such actions build trust, reduce turnover and foster a culture where safety and well-being are inseparable.

Challenges

Of course, implementing a holistic well-being strategy isn't without challenges. Small- and mid-sized firms often cite cost, lack of staff and fear of overstepping into personal territory as hurdles, but many aspects of total worker well-being require more intention than investment.

However, long-term benefits can outweigh short-term costs. Fewer injuries mean lower workers' compensation claims. Improved morale can enhance productivity and retention, which can be boosted by showing workers they are valued beyond their output.

"In the long run, investing in worker well-being isn't just ethical. It's strategic," Chosewood says. "Healthy, engaged workers are safer workers. And safer workers are more productive, loyal and resilient."

The future

Looking ahead, technology will continue to influence safety and well-being practices. Wearable sensors that alert crews to dehydration, apps that promote safe lifting techniques, and predictive analytics that help schedule breaks based on environmental data are already being tested in construction settings. These tools can be powerful but only when paired with a culture that genuinely supports health and safety.

In addition, surveys show younger employees value mental health support, flexibility and purpose. Roofing firms that adapt to this shift not only will attract stronger talent but also will lead the industry into a safer, more sustainable future.

Total worker well-being is not about replacing traditional safety. It's about completing it. A roofing worker may wear a harness, but if he's dehydrated, depressed or burnt out, risk remains. By embracing a more comprehensive view of worker health—one that encompasses mental, physical and emotional resilience—roofing contractors can better protect their teams and lay a foundation for long-term success.

As an industry, we are in a unique position to redefine what it means to protect our people. By integrating safety with total well-being, we can elevate not just how we build roofs but how we build the workforce beneath them.

CHERYL AMBROSE, CHST, OHST, is NRCA's vice president of enterprise risk management.

THE FUTURE OF ROOFING

SKILLSUSA® HOLDS ITS THIRD ANNUAL COMMERCIAL ROOFING COMPETITION

by Avery Timmons

Since the 1960s, SkillsUSA has held competitions at the state and national levels to help develop the next generation of skilled trade professionals. The roofing competition debuted in 2023, and each year, participation grows.

This year, 21 competitors from 17 states participated in the third annual Commercial Roofing competition during SkillsUSA's National Leadership & Skills Conference in Atlanta. Students installed TPO membrane over mockups NRCA uses for its PROCertification® exam.

Damien Holloway of Florida received first place in the high school category. Brigham Richardson of Arizona received second place, and Nathan Luz-Santos of Tennessee received third place.

In the college/post-secondary category, Samuel Oelfke of Minnesota received first place. Chenxi Huang of Florida received second place, and Kelly Cosgrove of New York received third place.

First-place winners received $1,500; second-place winners received $1,000; and third-place winners received $750. First-place winners also received a champions belt, a new Leister Triac ST handheld hot-air welder and a crystal award plaque.

This year's competition was a success (see pages 34-35 for some photos of the event), and NRCA and SkillsUSA are working to increase participation and expose more young people to roofing. Find more information at skillsusa.org and mark your calendar for next year's SkillsUSA National Leadership & Skills Conference June 1-5, 2026.

AVERY TIMMONS is *Professional Roofing*'s editorial assistant.

Above: SkillsUSA's third annual Commercial Roofing competition kicked off June 25 with 15 high school students installing TPO membrane over mockups.

Left to right: Post-secondary student Chenxi Huang of Florida competes; Kelly Cosgrove of New York and Ethon Duffield of Utah are hard at work on their mockups during the post-secondary competition.

To view a gallery of SkillsUSA photos, go to professionalroofing.net.

Taylor Campanile of Massachusetts and Fred Dunagan, service manager at Core Roofing, look over Campanile's handiwork during the high school competition.

Top to bottom: High school competitiors put the finishing touches on their mockups; winners of both divisons are honored at the Awards Ceremony. First-place winners Damien Holloway of Florida and Samuel Oelfke of Minnesota pose with their championship belts.

ROOFING HOSPITALITY

Photos courtesy of Klein Contracting Corp., Doraville, Ga.

Klein Contracting helps build Atlanta's largest hotel

by Chrystine Elle Hanus

Project name: Signia by Hilton® hotel
Project location: Atlanta
Project duration: January 2022-December 2023
Roofing contractor: Klein Contracting Corp., Doraville, Ga.
Roof system type: PVC thermoplastic membrane
Roofing manufacturers: Georgia-Pacific Gypsum, Atlanta; Sika® Sarnafil,® Canton, Mass; USG Corp., Chicago

Located on the northwest corner of the Georgia World Congress Center Authority campus, the Signia by Hilton® Atlanta hotel broke ground in March 2021 as the largest hotel development project in downtown Atlanta during the past 40 years. At 42 stories tall, the hotel overlooks the Mercedes-Benz Stadium and boasts 100,000 square feet of meeting space, three boardrooms, 976 guest rooms, an indoor event deck, outdoor event lawn and the largest hotel ballroom in Georgia.

Built on the redeveloped site of the former Georgia Dome, the Signia by Hilton Atlanta hotel opened in January 2024 and features state-of-the art technology, contemporary designs and a lobby spotlighting local architecture.

NRCA member Klein Contracting Corp., Doraville, Ga., was invited to bid on the project by the developer, Skanska, New York, and subsequently was selected as the roofing contractor for the 1.25-million-square-foot hotel project that included multiple roof elevations and two roof areas with mechanical equipment.

Robert Klein, PE, general manager of Klein Contracting, and Candace Klein, president of Klein Contracting, on the hotel's podium roof

The tower and podium roofs under construction

The Signia by Hilton® Atlanta hotel expands the footprint of the 1.5-million-square-foot Georgia World Congress Center, the fourth largest convention center in the U.S. It forms part of a campus that includes Mercedes-Benz Stadium, home of the National Football League's Atlanta Falcons and Major League Soccer's Atlanta United FC, and Centennial Olympic Park.

MATERIALS

The Signia by Hilton Atlanta hotel project was initially planned to start in early 2020 but was put on hold during the COVID-19 pandemic. A year later, the project received approval to proceed, but the delayed start resulted in supply chain issues and spiking material costs and availability.

"Beyond the challenges of delivering a skyscraper in an urban environment, our team spent more than seven months in material procurement meetings that included the roofing manufacturer, project executive and strategic supply team at Skanska," says Candace Klein, president of Klein Contracting.

Working during the COVID-19 pandemic created a series of unexpected events that led to unknown delivery times, making budgeting and projecting deadlines a constant challenge.

Supply chain issues and unique specifications required for the project also made obtaining necessary materials such as cover board and insulation and the specific color and thickness of the roof membrane difficult.

"The Signia by Hilton roof system project, like many other projects at the time, was significantly affected in terms of cost and schedule," Klein says. "On-time delivery methods fell apart, compounded by storms that impacted the petrochemical and roofing industries."

Klein Contracting collaborated with manufacturers to determine the price and delivery timeframe for each roof system component. Manufacturers were able to deliver some items, but nobody could guarantee price or delivery of the entire roof system.

Additionally, the selected roof system consisted of 80-mil-thick PVC thermoplastic membrane in reflective grey, which only is produced by Sika® Sarnafil® one day per month, adding to delivery unpredictability and scheduling constraints.

Klein Contracting and Skanska negotiated a material allowance where any amount below the allowance would be returned to the building owner, and anything above would be reimbursed.

After the materials were approved and ordered in January 2022, a team of representatives from Skanska, Sika Sarnafil and Klein Contracting was tasked with reviewing and securing roofing materials and met weekly from Jan. 31 through Sept. 7.

"It took 31 meetings, multiple product substitutions and a lot of flexibility," Klein says. "Pricing changed multiple times on various items, and product substitutions were frequent throughout the project."

Materials were delivered in stages starting in July 2022, ensuring that as the Klein Contracting team worked, materials were available.

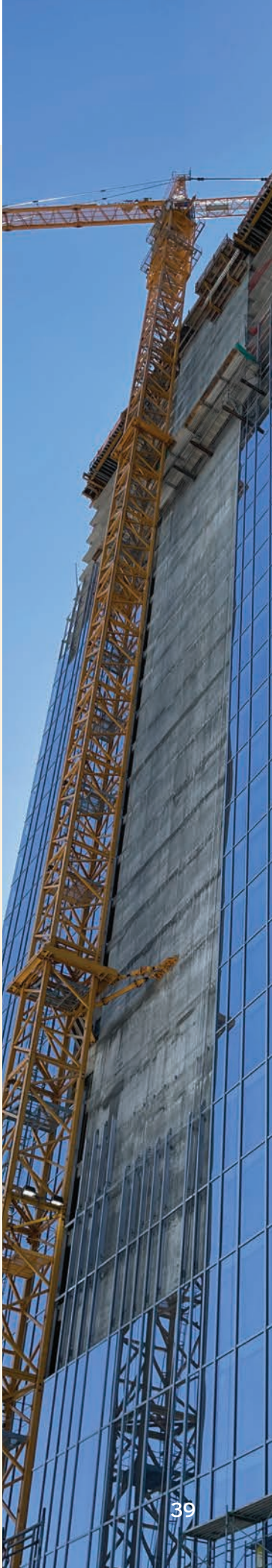
"The timing worked well as other upstream trades were delayed, which, in turn, delayed the start of roofing work," Klein explains. "However, the delays did not affect the substantial completion of the project. Unusual times called for unusual solutions, and the collaborative nature of the roofing materials team resulted in the roofing portion being completed not only on time but also on budget!"

Thanks to the team's hard work, roofing materials for the grand project ended up within $225 of the allowance.

LOGISTICS

Once materials were procured, the Klein Contracting team focused on deliveries, storage and staging.

Working in an urban area meant roofing procedures had to be carried out in a confined space, requiring detailed planning and coordination to manage the limited space available for unloading materials and equipment. All deliveries were



Cranes were shared by multiple trades, so schedules were carefully planned but also required flexibility by all involved to avoid delays.

meticulously scheduled in advance to ensure smooth operations.

This planning involved detailed, flexible scheduling and coordination of multiple elements, such as crane time, elevator time and installation in various areas as materials were received. Situated between Home Depot Field and the Georgia World Congress Center, the hotel's laydown area was extremely cramped and in high demand by all trades involved. Materials had to be unloaded immediately and relocated as the space was needed for other trades to unload their supplies.

"An added layer of fun occurred when 'rogue truckers' would make spontaneous deliveries, which could not be refused because it might be the only opportunity to receive the materials they carried," Klein explains. "This situation forced our team and the Skanska team to scramble equipment and crews to unload these unexpected deliveries, adding to already challenging logistics.

"The team had to quickly pivot to get forklifts and personnel to the site to unload and relocate the materials," Klein continues. "This required constant communication with Skanska and adhering to a well-organized logistics plan to prevent any disruptions that could halt progress."

Despite numerous obstacles, the collaborative efforts of the teams ensured materials were delivered and managed efficiently.

"This required teamwork, communication and a perpetual eye on the schedule to ensure each task was completed efficiently without causing delays," Klein says.

COMPLEX ROOFING

The 118,000-square-foot roof systems were divided into two areas: the podium and tower.

Roofing podium

The podium is about 100,000 square feet. Work on this area began in July 2022 and was completed in March 2023. All the roof areas in this section consisted of steel decks.

On the steel roof decks, one layer of Sarnatherm® substrate boards and two layers of Sarnatherm insulation were attached by the Klein Contracting team with mechanical fasteners through the top layer of insulation followed by adhering crickets and saddles.

Next, workers adhered either ½-inch-thick DensDeck® Prime Roof Boards or Securock® Brand UltraLight Coated Glass-Mat Roof Boards based on product availability. To complete the roof system, workers adhered 80-mil-thick Sarnafil S 327-80 EnergySmart Roof Membrane in grey.

The podium's roof areas were installed in the following order:

Area one: Ballroom, level 5
Area two: Mechanical roofs, levels 3 and 4
Area three: Lobby and porte cochere, level 3
Area four: Restaurant, level 4; pool bar roofs, east vestibule; kitchen, level 5

Area one had one of the most spectacular and uniquely designed rooms of the hotel—the Triumph Ballroom. Five stories above ground, the 40,000-square-foot ballroom facility is attached to and expands the Georgia World Congress Center and has a roof size of about 50,000 square feet.

Ensuring the safety of all workers on the roof was paramount.

The team implemented fall-protection systems, conducted regular safety briefings and ensured all workers were equipped with appropriate personal protective equipment.

"The area went smoothly and was quickly finalized by the installation of walk pads," Klein says.

The next section, area two, included roofs for mechanical equipment on levels three and four. The building's unique design aesthetically hides the view of rooftop equipment from the ground; a wall exists between the third-floor HVAC equipment and second-floor roof. The cooling tower is located on the fourth floor and is obscured from view by the fifth-floor ballroom roof.

"The challenges of roofing these areas involved coordination between trades working on the mechanical equipment and needing the roof space for storage because of tight accommodations and extremely limited space," Klein says.

Left to right: Working in a tight urban area required meticulous planning and coordination to manage the limited space available; Candace Klein and Robert Klein, PE, overlook roofing operations from the podium roof.

After working on the roofs with HVAC equipment, areas three and four were completed. Area four involved multiple elevations and had particular safety issues as it is five stories high, narrow (7 or 15 feet wide depending on the section), has no ledges and is against a wall of windows.

"Skanska holds the value of safety for everyone on the job site above all else and worked collaboratively with us to create the best solution to keep everyone in the area working safely," Klein says. "Stanchions were installed, and Klein Contracting also installed cabling, allowing everyone to tie off to the cable."

Roofing tower

Work on the tower began in February 2023 and was substantially completed in December 2023. The 453-foot tower was the tallest section of the project. It includes 18,000 square feet of multiple roof areas including the service core mechanical area roof, service core elevator area roof and the tower roof. These roof areas contain a significant amount of equipment and are accessed via a service elevator that serves all 42 stories.

On the steel roof decks over the tower and machine room, one layer of Sarnatherm substrate boards and two layers of Sarnatherm insulation were attached by the Klein Contracting team with mechanical fasteners through the top layer of insulation followed by adhering crickets and saddles.

Next, workers adhered either ½-inch-thick DensDeck Prime Roof Boards or Securock Brand UltraLight Coated Glass-Mat Roof Boards based on product availability. To complete the roof system, workers adhered 80-mil-thick Sarnafil S 327-80 EnergySmart Roof Membrane in grey.

On the concrete deck for the elevator roof, the crew adhered a layer of Sika Vapor Retarder TA 138, 2-inch-thick Sarnatherm insulation, crickets and saddles followed by another layer of 1 ½-inch Sarnatherm insulation and a layer of ½-inch-thick Securock Brand UltraLight Coated Glass-Mat Boards. The complete the roof system, the team adhered 80-mil-thick Sarnafil S 327-80 EnergySmart Roof Membrane in grey.

The high-rise section of the hotel presented specific safety challenges.

"Working at great heights increases the risk of falls and other accidents," Klein says. "Ensuring proper fall-protection systems, regular safety briefings and the use of PPE was crucial."

Transporting materials to the top also was logistically difficult.

"Cranes were shared by multiple trades, so timing was carefully planned but also required flexibility by all trades involved to avoid delays and ensure materials were available as needed," Klein says.

Limited space for storing materials and equipment complicated the workflow. Heavy equipment was crammed into an 18,000-square-foot space.

Left and right: The newly completed roof systems

Workers from multiple trades mobilized on the concrete deck and roof space, so material for all tradespeople simultaneously working in the area had to constantly be moved to accommodate active work.

"Effective communication and scheduling were necessary to prevent conflicts and ensure each trade could complete work without interference," Klein says. "The coordination included everything from use of the elevator to understanding the phasing to manage such things as flashings and material relocation."

Multiple elevations, mechanical roof areas, a ballroom, a restaurant, a pool area and a lobby roof area added to the complexity of the installation.

"Despite these challenges, our team successfully installed the PVC membrane system, demonstrating its ability to manage and overcome significant obstacles including delivering on time and within budget," Klein says.

READY FOR CHECK-IN

The Klein Contracting team completed work on the Signia by Hilton Atlanta hotel in December 2023 in time for the grand opening in January 2024. As one of the highest-profile hotels to open in the U.S. in 2024, rooms were rented in advance and left no room for delays. The ability to adapt to changing circumstances and work together under pressure was crucial to the project's success.

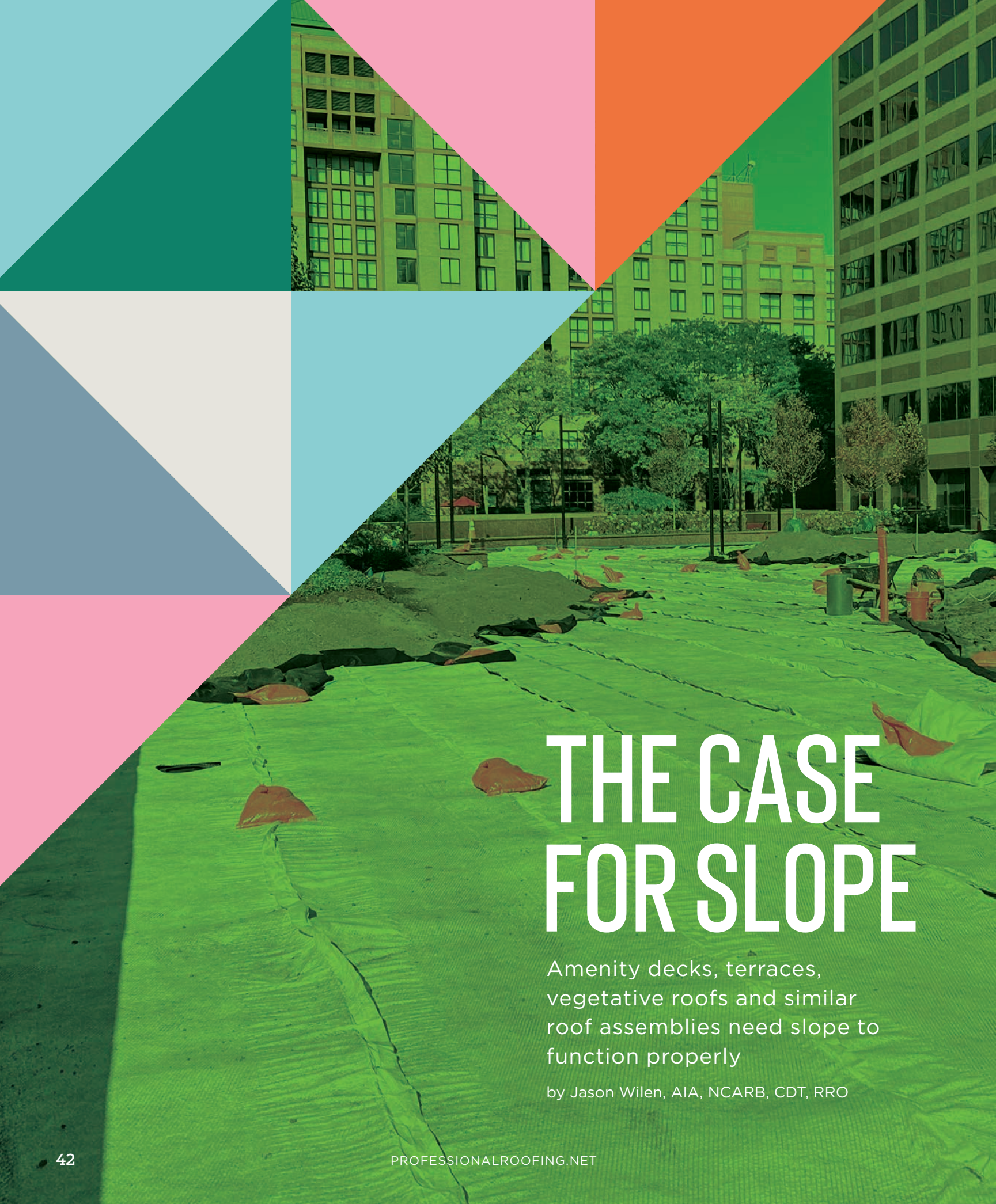
The team's dedication and resourcefulness allowed it to overcome logistical challenges to deliver the unique project on time and only $225 over the material allowance. In addition, zero safety incidents occurred.

"The COVID-19 pandemic delayed the goal of creating a sky-rise hotel attached to the Georgia World Congress Center, but it did not change the ability to produce a spectacular roof system on a building that changed the face of the Atlanta skyline," Klein says. "Creating a team focused on being flexible and open to substitutions, as well as keeping each other up to date on all issues that impacted the delivery and cost of the roof system, directly led to the success of the roofing on the project."

For its work on the Signia by Hilton Atlanta hotel project, Klein Contracting received a 2025 NRCA Gold Circle Award in the Outstanding Workmanship: Low-slope category.

"It is a rare gift to not only work on a building that changes the face of a city but also to be honored to work on a team devoted to everyone's success," Klein adds. "Despite the myriad challenges on the project, Skanska invested time, energy and faith in our team. Skanska's value of 'Be better together' empowered us to deliver on our promise of the best roof system on time and on budget."

CHRYSTINE ELLE HANUS is *Professional Roofing*'s associate editor and an NRCA director of communications.



THE CASE FOR SLOPE

Amenity decks, terraces, vegetative roofs and similar roof assemblies need slope to function properly

by Jason Wilen, AIA, NCARB, CDT, RRO

Before you continue to read this piece, know that I anticipate a symphony of dismay from many general contractors, construction managers, design architects and developers who may resist what I am about to say. I understand the allure of a flat roof deck is undeniable. It is easy to visualize and draw and creates a level line for wall elements adjacent to the deck to follow; no ugly curbs peek over the walking surface.

However, the consequences of a flat roof deck are significant, permanent and should not be ignored.

The problem with flatness

First, let's establish situations where the lack of slope can cause serious issues. Apartment buildings, high-rise condominiums, hospitals, corporate office buildings, hotels and other public buildings sometimes have outdoor spaces that are generally accessed through the building. These spaces usually are above interior building areas, parking garages or utility spaces. Often, these areas are meant to be accessed by building occupants and have a level walking surface such as pavers, a wood or synthetic lumber walkway or a concrete slab with drainage occurring below the visible surface. Typically, windows, doors or curtain walls visually connect amenity decks to the interior.

Outdoor rooftop spaces often have aesthetic and functional elements such as planters, sitting areas, wind or visual screen walls and focal elements such as fire features, trellises or fountains.

Sometimes deck elements require functional utilities such as electrical service, gas lines, irrigation and/or potable water piping. Some equipment may require structural attachment and electrical, plumbing or gas utilities. Also, there may be decorative vegetation, trees and/or aesthetic overburden. In short, a lot is going on. Now think about rain falling and disappearing below the surface of these complex rooftop elements. Where does it go?

Amenity decks are designed with a roof system beneath the walking surface and surface elements. Most commonly, these systems are designed to allow water to filter through surface elements like pavers, walkways, vegetation, planters, etc. Just below the surface may be pedestals for pavers, thermal insulation, supports for walkways, structural components or drainage mats. At the bottom of the system is a roof membrane layer (the drainage plane) applied to a structural deck. It is meant to manage water where it exits through drains or scuppers. Less commonly, the drainage plane protects above-deck roof insulation and the roof system may include a vapor retarder installed above the structural deck.

TAPERED INSULATION

In most jurisdictions, the minimum roof system slope is ¼ of an inch per foot for new construction. A common approach to creating roof system slopes for low-slope commercial roofs is to use tapered foam insulation boards, most often polyisocyanurate.

If a structural deck is flat, the thickness of the overall insulation increases by 1 inch for each 4 feet of distance between drainage points and edges of catchment areas for each drain/scupper. A thickness of 12 inches or more can occur with such systems, and careful coordination of the location of drainage points and the roof system tapered plan is necessary to control overall roof system thickness. Special attention should be given to roof areas with maximum insulation thickness limits, such as door thresholds, windowsills, counterflashing elements and rooftop equipment-related elements.

Most low-slope roofs are not meant for people to walk on other than for maintenance but have elements atop the drainage plane. The most common is nonoccupiable vegetative roofs, typically with growth medium and low-growing vegetation such as sedum, meant to delay stormwater runoff, increase habitat for birds and insects, mitigate urban heat islands and provide other benefits. As with amenity decks, water is meant to filter through surface elements to a drainage plane.

Having a flat drainage plane below the surface is tempting as it dramatically simplifies the design because most walking surfaces also are meant to be level. But when it rains, water filters through surface elements, reaches the roof membrane and spreads until the entire surface is covered and the water level rises. This rising water imparts an additional load onto the roof deck (5.2 pounds per square foot for every inch of thickness). Although the structural designs of roof decks are required to account for the weight of ponding water, this load causes deflection of the roof structure, resulting in added load and, in extreme cases, "ponding instability," or instability in the structure caused by progressive deflection. In the worst case, it can result in roof system collapse.

Eventually, water will reach drainage points on the deck and flow into the storm drainage system. Any water that doesn't get to a drain stays on the roof surface until it evaporates. In colder weather, it may freeze until temperatures rise.

The problem with this configuration is flat roofs aren't truly flat. The ability to construct a completely flat roof deck is hindered by deflection. In addition, back slope (when roof decks slope away from drainage points) and low points inevitably occur. This results in standing water or accelerated deterioration of roof surfaces and flashings and debonding of the roof

membrane from the substrate if water flows against building elements and away from drainage points. Debonded membranes are especially problematic as they allow a path for water to travel uncontrolled and in direct contact with surfaces not designed to resist moisture damage.

During heavy rainstorms or snowmelt, water on roofs often rises quite high as it waits to flow through drainage points. This allows moisture to reach higher onto flashings and sometimes above the roof system flashings onto surfaces not meant to handle the flow.

Over time, water's ability to flow across roof surfaces slows because debris enters the drainage layers and they compress over time. Slower flow allows water to reach even higher during heavy precipitation (this is known as rain load). Ultimately, this scenario results in moisture routinely reaching areas of the building not designed to handle rain load and moisture infiltration into building spaces. If roof system defects exist, water also infiltrates at those weak points.

Slope makes it better

Think of a bathtub with water sitting in the bottom; the bathtub becomes full faster when new water is added because there already is water in the bathtub. A roof system operates the same way. Now imagine adding a slope to that bathtub. With slope, water never sits stagnant at the bottom because it always is moving toward the drain. Similarly, when it rains, slope makes it less likely for water to overflow a roof system as it waits to drain. And if there are roof system defects, the defects are not constantly under water. I believe the argument for slope is clear, but I suspect there may still be skeptics. More flashing height is needed when sloped roofs are installed because supports must be tapered or of varying heights to achieve level walking surfaces. When tapered insulation is used to create slope, insulation can get quite thick at the high point of the roof system (top of the slope), especially when there are few drainage points. These realities add costs to new construction projects because of the need for taller curbs, parapets, equipment supports, etc.

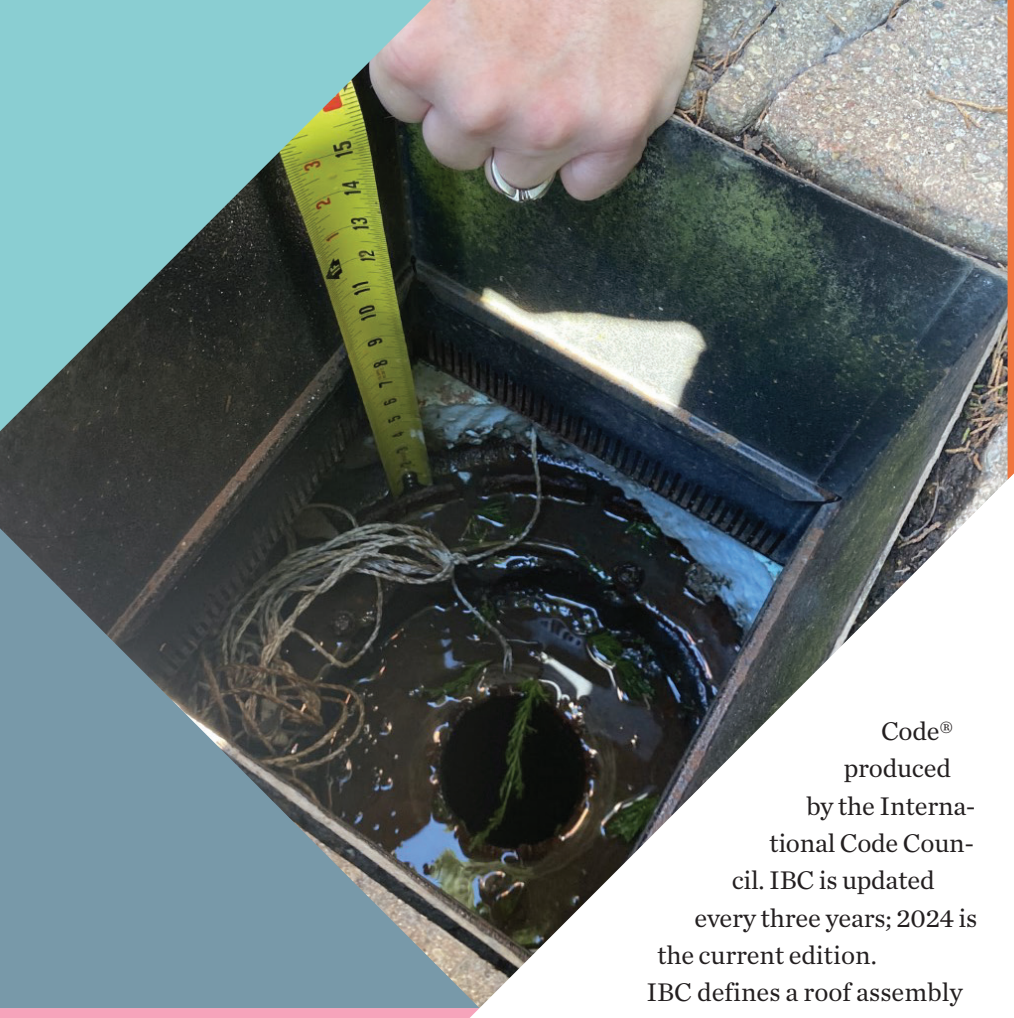
Flat or poorly sloped decks often require large areas of overburden to be moved when leaks occur.

In addition, roof system manufacturers routinely express confidence in their products and offer reassurances their roofing materials are designed to hold up under harsh conditions such as constant underwater exposure. I see general contractors pressuring design architects and installing contractors to accept zero slope as a cost-saving measure or when the designed slopes don't quite happen during construction. I understand ensuring proper slope competes with thousands of other issues during a construction project and does not often reach the top of the list of concerns. But what is frequently overlooked is building codes generally require slope for surfaces that receive rain loads, but it's not as evident in the code as it should be.

Code requirements

Most U.S. jurisdictions adopt model building codes, which are developed nationally with input from code specialists, technical and safety subject matter experts, material manufacturers, building code officials and the general public.

State and local building departments and agencies adopt model codes and sometimes amend the requirements to suit local conditions or practices. The dominant model building code used by state and local jurisdictions is the International Building



Code® produced by the International Code Council. IBC is updated every three years; 2024 is the current edition.

IBC defines a roof assembly as "a system designed to provide weather protection and resistance to design loads ... ." In other words, roofs must comply with the code's weather protection and structural requirements. As discussed previously, systems below the walking surface of amenity decks function as roofs because they are designed to handle precipitation and design loads and, therefore, must be designed as such.

Slope requirements are in IBC's Section 1507. There are requirements for common types of commercial roof systems such as built-up, polymer-modified bitumen, single-ply, spray polyurethane foam and liquid applied. For each roof system type, minimum material standards are referenced in the code and established as a minimum requirement. Usually, the referenced standards are active, meaning a committee of experts considers updates and modifications based on current industry conditions and technologies. Active standards are republished with regular updates.

IBC Section 1507 addresses slopes for roof types commonly used in low-slope situations, such as under overburden on amenity decks. The listed minimum slope requirement is ¼ of an inch vertical per 12 inches horizontal (⅛ of an inch vertical for coal-tar roofs). Rain load requirements for roofs are in IBC Section 1611 and referenced in IBC Section 1502.1.

IBC Section 1512 indicates whether a roof is re-covered or replaced; the reroof must comply with the requirements for new construction with an exception noted for roof slope. This section indicates replacement roofs are considered adequately sloped when they provide "positive roof drainage." IBC defines positive roof drainage as "a design that accounts for deflections from all design loads and has sufficient additional slope to ensure that drainage of the roof occurs within 48 hours of precipitation." The section also references rain load requirements in IBC Section 1611.

Although the slope requirements noted in the previous sections are clear for specific roof system types noted in IBC Section 1507, there often is confusion regarding roof system types not explicitly mentioned in the code. Materials identified generically as "waterproofing" are frequently used, and the most common waterproofing type for roofs with overburden are hot- or cold-applied rubberized asphalt membranes. This type of material is not mentioned in the code and does not have an active material standard. Although some people believe unmentioned materials are not subject to IBC Section 1507 requirements for slope, this is not the case.

The code provides guidance for roofing materials not mentioned in IBC Section 1507 and for any situation where a construction material not explicitly addressed in the code is installed. IBC Section 104.2.3 addresses alternative materials, design and methods of construction and equipment and states: "The provisions of this code are not intended to prevent the installation of any material or to prohibit any design or method of construction not specifically prescribed by this, provided that any such alternatives have been approved."

IBC defines approved as "acceptable to the

NRCA'S STANCE

Although building codes establish minimum standards, it's helpful to understand other viewpoints, such as The NRCA Roofing Manual.

The NRCA Roofing Manual has been in publication since 1971 and is updated on a four-year cycle. Each year, an update for one of the manual's four volumes is published.

The *NRCA Roofing Manual: Membrane Roof Systems—2023* has the following guidance regarding roof slope: "NRCA recommends roof systems be sloped to provide positive drainage for a finished roof system. Additionally, for new construction, the roof system should meet the building code requirements for minimum roof slope for the specific roof covering type." NRCA's guidance aligns with model building codes, and the organization advises that a slope be provided in all cases.

In addition, NRCA recommends all roof system installations have a quality control plan, especially those that will be covered with overburden. Roofing contractors should explain their quality control plans at preconstruction meetings, and general contractors should prioritize interactions with other subcontractors whose work is adjacent to roof areas.

NRCA's Quality Control and Quality-assurance Guidelines for the Application of Membrane Roof Systems discusses two methods of achieving quality.

Quality control is identified as being performed by roofing contractors. An individual present during the entire roof system installation should have the authority to correct noncompliant work. This person may be a working crew member and should completely understand the roof system being installed. Quality control should happen on every roofing project.

Quality assurance occurs in parallel with quality control and is the responsibility of building owners, typically through their representatives, such as architects, engineers, roof consultants, construction managers or general contractors. Sometimes, manufacturers also perform quality assurance as part of their warranty issuance procedures.

Those performing quality assurance should understand the roof system being installed and the contractor's installation process; they should have an established method of informing contractors when noncompliant work is observed so timely corrective action by the contractor can occur. A helpful reference is ASTM D7186, "Standard Practice for Quality Assurance Observation of Roof Construction and Repair." The standard's scope includes procedures for performing visual monitoring of roof construction, establishing guidelines for quality assurance observation practices, and defining the role and responsibilities of the quality assurance observer.

For more information, go to shop.nrca.net and astm.org.

building official." IBC Section 104.2.3 establishes alternative materials or use must meet the code's intent and function equivalently to those materials or designs identified in the code.

To summarize, slope is required in all cases because slope is required for all items mentioned in the code, and any unmentioned material must be used similarly.

Some jurisdictions have amended model code language to allow for certain roofing products to be installed at zero slope.

District of Columbia Building Code Section 1507.18—Hot-applied rubberized-asphalt roofing and Denver Building and Fire Code Section 1507.19—Hot-applied, Reinforced Rubberized Asphalt Roofing indicate such material is not required to have a minimum design slope and must comply with the Canadian General Standards Board Standard CAN/CGSB-37.50-M89—Hot-Applied, Rubberized Asphalt for Roofing and Waterproofing. The standard was last updated in 1989 and is listed as "withdrawn." CGSB includes the following note on its website regarding withdrawn standards: "Note: The information contained in these withdrawn standards was originally developed pursuant to a voluntary standards development initiative of Canadian General Standards Board (CGSB). The content therein may no longer represent the most current, reliable, and/or available information on these subjects. CGSB hereby disclaims any and all claims, representation or warranty of

Flat decks are never truly flat; water collects at low points and lingers below the surface.

scientific validity, or technical accuracy implied or expressed respecting the information therein contained. CGSB shall not take responsibility nor be held liable for any errors, omissions, inaccuracies or any other liabilities that may arise from the provision or subsequent use of such information."

The Denver code contains the following exception: "Areas of roofs used for occupied roofs, vegetative roofs, roof gardens or other similar purposes, shall not be required to have a design slope provided a permanent electrical conductance breach detection method for testing the membrane is installed in addition to a drainage mat."

Although requiring a permanent breach-detection method to be built into a roof system is a sensible precaution, should a breach occur, a building owner would incur the costs of uncovering the affected areas so repairs could be made. A manufacturer's material warranty typically does not address moving overburden so repairs can be made, and breach-detection methods may not detect moisture moving below a debonded membrane, a common issue with membranes installed on zero-slope decks.

Although both codes allow hot-applied rubberized asphalt roofing to be installed without slope for drainage, it is important to note Carlisle Construction Materials, Carlisle, Pa., requires slope in its guide specification indicating "concrete shall be cured at least 14 days and shall be sloped for proper drainage."

Following manufacturers' written installation instructions is required in most building codes, including those in the District of Columbia and Denver. The amendments noted seem designed to benefit the original builder while downstream building owners are subject to adverse effects, related costs and disruptions of zero-slope roofs over the long term.

Long-term issues

As a forensic architect, I have seen firsthand the ramifications of zero-slope amenity decks. Often, the first sign roofs are nearing the end of their service lives is when leaks begin to appear. Leaks also can happen in areas where roofs are installed improperly.

A sloped system is much easier to evaluate when leaks happen. When roof surfaces are sloped, investigators strategically add water in sequence starting at low points. Because water movement below the surface is predictable and will follow the slope below the surface, defective areas can be more easily identified and overburden only needs to be moved to expose the problem areas so repairs can be made. This saves cost and reduces disruption time.

Without a slope, water spreads out in all directions once it reaches roof surfaces below surface elements. Water entering a system can cause a leak at any point, making it challenging to water-test flat decks effectively. Large overburden areas often need to be removed for an effective leak investigation. This is expensive and disruptive. When defects are found and repaired, it is frequently difficult to confirm the leak has been resolved because the entire roof area must be flooded to confirm all infiltration paths have been found, and it may be difficult or impossible to replicate a rainstorm. This frustrates building owners as leaks may reoccur after heavy rain or snow melt, and leaks usually become more intense as roofs age.

The reality is buildings constructed with flat roof surfaces below overburden will plague building owners with costly maintenance and repair costs that increase over time. These additional costs and related disruptions generally can be avoided by designing appropriately sloped drainage planes as part of their original constructions. Any cost savings achieved by choosing a flat roof surface versus a sloped one are often eclipsed by additional operating and maintenance costs incurred over the service life of a building.

Stick with slope

In a new construction scenario, in my experience, the best long-term configuration is when a structural deck is sloped to drainage points. Ideally, this means the slope is built in, and any roof system installed above will naturally drain properly. If a structural roof deck is built flat, slope must be added with above-deck elements such as cementitious toppings or tapered insulation. These above-deck solutions often work well assuming proper materials and attachment methods are used.

Architects and general contractors frequently leave the drainage scheme to be worked out during construction and rely on subcontractors to propose a slope design as part of the submittal process. This can work well when experienced subcontractors are involved and architects or specialty consultants thoroughly review before installation.

Whichever slope strategy is used, the design must accommodate the entire thickness of a roof system, as well as related components such as insulation and various overburdens.

In reroofing scenarios, roof systems must accommodate existing conditions. Building owners with roofs constructed without slope or sufficient perimeter construction height often face challenging decisions. Changing code requirements has made compliant reroofing design even more difficult, especially the ever-thicker insulation required to meet energy codes. This is especially true for amenity decks with original designs that did not initially accommodate proper flashing heights.

I encourage design teams for new construction to have building enclosure specialists evaluate and optimize roof drainage designs during the design phase. Specialists also should assess the primary roof drainage system and secondary overflow drainage scheme to determine whether there is enough storm drainage capacity for the anticipated rain load. A proper drainage system reduces the height at which water rises during storms, gets water off a roof more quickly and ultimately imparts less stress onto the roof system's elements.

Every building project needs people who understand slope and drainage and advocate for effective roof system designs in the chaos of the design process. Future building owners and users will thank you for it.

JASON WILEN, AIA, NCARB, CDT, RRO, is an associate principal at Klein and Hoffman, Chicago.

MANUFACTURER NEWS

GAF and Roofer Chicks provide a new roof to Rock Haus Foundation in New Braunfels, Texas.

GAF donates roofing materials

GAF, Parsippany, N.J., has partnered with Roofer Chicks, New Braunfels, Texas, to provide a new roof to Rock Haus Foundation, a nonprofit organization in New Braunfels that aims to enrich the lives of individuals with intellectual and development disabilities.

After suffering significant wind damage and natural aging, Rock Haus Foundation's roof was replaced for the first time in more than 20 years. Roofer Chicks installed the new roof using materials donated by GAF.

In addition, GAF partnered with Cape Fear Habitat for Humanity to support the organization's annual Women Build event, an initiative that brings together women and supporters to raise funds and help construct affordable homes for female-led families.

GAF and Habitat for Humanity staff constructed a home for a local kindergarten teacher and single mother of two in the Haven Place neighborhood of Castle Hayne, N.C. More than two dozen employees from GAF's Burgaw, N.C., facility worked on various construction tasks and donated roofing materials for the project.

"As a team, we love partnering with Habitat for Humanity to support our community," says Rossy Gibson, GAF's senior human resources business partner. "We've participated in Women Build for more than five years, and we're grateful for the opportunity to help families achieve safe, affordable homeownership."

Both collaborations were part of GAF's social impact initiative, GAF Community Matters, which is focused on making a positive impact in the community.

ATAS International commits to domestic sourcing

ATAS International Inc., Allentown, Pa., has reaffirmed its commitment to supporting U.S. manufacturing and domestic sourcing. The company sources the aluminum and steel used in its metal panels from domestic suppliers.

"At ATAS International, we take great pride in not only producing top-quality metal panels but also in strengthening the U.S. supply chain," says Dick Bus, president of ATAS International.

DISTRIBUTOR NEWS

ABC Supply partners with ServiceTitan

ABC Supply Co. Inc., Beloit, Wis., has announced its collaboration with ServiceTitan. The companies are developing an integration to provide contractors real-time access to ABC Supply's product prices, job estimates and local catalogs. The integration is designed to help contractors manage job scheduling, technician dispatching, estimating, invoicing and customer service seamlessly.

In addition, ABC Supply has opened new locations in Arlington, Texas; Boerne, Texas; Marble Falls, Texas; and Rogers, Minn. The company also has established a location specializing in gutter and siding products in Houston.

QXO honors female roofing professional

Narveson

QXO, Greenwich, Conn., has announced Rachel Narveson, founder and CEO of Proficient Construction, Lake Elmo, Minn., is the winner of the 2025 North American Female Roofing Professional of the Year campaign, which highlights women in the roofing industry throughout the U.S. and Canada.

Narveson also champions positive social change and supports organizations such as Renew Hope, which focuses on combating sex trafficking and aiding survivors.

"It's an honor to be recognized by my peers and the broader roofing community," Narveson says. "This award wouldn't be possible without the extraordinary women in our industry empowering one another and driving the industry forward. I hope my story inspires other women and other young professionals to pursue their passions."

More information about QXO's annual Female Roofing Professional of the Year program is available at go.qxo.com/femaleroofpro.

HANOVER®
Architectural Products

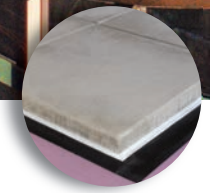
One River North, Denver, CO
Featuring: 18" x 36" Roof Pavers in #M3803

PAVING THE WAY FOR
ELEVATED SUSTAINABILITY

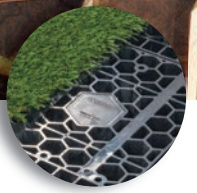
HANOVER® SUSTAINABILITY

We continually research new materials and processes, seeking innovative ways to create high-quality, sustainable products. The result is a long-lasting, environmentally friendly product line that maintains Hanover's renowned quality and superior strength. We are committed to eco-friendly practices that reduce environmental impact.

HANOVERPAVERS.COM >>



Natural/Diamond Ballast Pavers
100% Recycled Aggregate



GRIDLOC® System
90% Recycled Materials

Prest® Pavers
Chesapeake Collection

CONTRACTOR NEWS

Roofing Corp of America acquires A-1 All American Roofing

Roofing Corp of America, Atlanta, has announced the addition of A-1 All American Roofing Co., San Diego, to its portfolio. The acquisition is Roofing Corp of America's 14th acquisition since its founding in December 2020.

A-1 All American Roofing specializes in serving multifamily and hospitality clients, which are both areas of focus and targets of growth for Roofing Corp of America. The business was founded in 1996 by Greg Savran, who will continue to lead the company as a standalone entity within Roofing Corp of America.

"We've been looking for the right partner in the San Diego market and are proud that Greg and A-1 All American Roofing are now part of the family," says Randy Korach, CEO of Roofing Corp of America. "They extend our reach to targeted market segments and geographically."

OTHER NEWS

The Roofing Alliance announces Bennett Award recipient

The Roofing Alliance has announced the recipient of the 2025 Bennett Award is Dudley Miles, CEO of J.D. Miles & Sons Inc., Chesapeake, Va. The award recognizes individuals who volunteer their time and make meaningful contributions on behalf of the Roofing Alliance and roofing industry.


Miles

Miles' dedication to giving back has had a lasting effect on the Roofing Alliance. As a longtime judge of the Roofing Alliance's Construction Management Student Competition, his leadership and generosity have inspired others.

In addition, the Roofing Alliance has announced its board of trustees for 2025-26. Greg Hudson, director of commercial Dens sales for NRCA member Georgia-Pacific Gypsum, Atlanta, is president, and Sherri Miles, president and CEO of Miles Roofing Inc., Chesapeake, Va., is vice president. Jason Dark, vice president of commercial operations for NRCA member Duro-Last Roofing Inc., Saginaw, Mich., is secretary/treasurer, and Reed Gooding, CEO of NRCA member GSM Roofing, Ephrata, Pa., is immediate past president.

Additionally, the following are serving as trustees:

- John Campbell, vice president of sales and marketing for NRCA member Eagle Roofing Products, Rialto, Calif.
- Piers Dormeyer, CEO of NRCA member EagleView, Kirkland, Wash.
- Paige Harvill, corporate projects manager for NRCA member Nations Roof, Mobile, Ala.
- Scott Keith, CEO of NRCA member Jobba Trade Technologies, Chicago
- John Kiesel, president of NRCA member Division 7 Roofing, Galena, Ohio
- Michael Kruger, president of NRCA member L.E. Schwartz & Son Inc., Macon, Ga.
- Daryl Maronic, president of NRCA member Dataforma Inc., York, Pa.
- Bob Morgan, CEO of NRCA member Upstate Roofing and Painting Inc., Rochester, N.Y.
- Bob Pringle, vice president of NRCA member Evans Roofing Co. Inc., Elmira, N.Y.
- Craig Rainey, owner and executive vice president of NRCA member Supreme Roofing, Dallas
- Natalia Rizzatti, president of All Weather Insulated Panels, Vacaville, Calif.
- Jason Stanley, CEO of NRCA member IB Roof Systems, Grapevine, Texas

Support mental health in the roofing industry

The construction industry has the second-highest suicide rate of all major industries in the U.S. To support your mental health awareness efforts, NRCA offers several resources:

- Perspectives is an employee assistance program that provides counseling and resources for life issues (available to NRCA members only)
- Hard hat stickers, a poster, toolbox talks and a video serve as visual reminders for your crews
- A mental health awareness Power Hour presented Sept. 9

By working together, we can build a healthier roofing community.

Learn more about NRCA's resources and join the movement for better mental health.

nrca.net/mentalhealth

NRCA

CONSTRUCTION INDUSTRY ALLIANCE FOR SUICIDE PREVENTION

STANDUP FOR SUICIDE PREVENTION

RT3 seeks award nominations

Roofing Technology Think Tank, York, Pa., is seeking submissions for its 2025 Innovator of the Year Award.

The award recognizes a roofing contractor who has contributed to the advancement of the roofing industry. To be eligible, a roofing contractor must be licensed and bonded for a minimum of five years and have a minimum of $2 million in annual revenue. He or she also must have 10 or more employees; be a member of an accreditation organization; and be able to cite community enrichment ties.

The deadline for submissions is Sept. 30. Additional information and award applications are available at rt3thinktank.com/award. There is a $50 nomination fee to cover processing and award costs.

SPRI to revise and canvass standard

SPRI has announced it is revising ANSI/SPRI BPT-1 and plans to canvass the document for reapproval as an American National Standard.

ANSI/SPRI BPT-1 provides basic requirements and procedures for determining the maximum failure load of substrate boards, fasteners or fastening systems when tested for dynamic pull-through resistance. It is intended to be a basis of practical comparative testing for roof system components that are within the scope of the standard. Acceptable applications include—but are not limited to—

the determination of the comparative performance of component combinations and inclusion of alternate components into existing roof assembly listings or approvals.

SPRI developed the ANSI/SPRI BPT-1 standard for use by roof system manufacturers, design professionals and other practitioners in 2021.

THE INDUSTRY ONLINE

IKO Commercial has launched its **IKO Commercial Rooftop Access App.** The app provides access to product resources, technical documents and installation guides.

UP THE LADDER

ABC Supply Co. Inc. has promoted **Patrick Bryan** to district manager of its Houston District and **Ryan Meditz** to district manager of its Blue Ridge District. Additionally, the company has promoted 47 branch managers to managing partners. The full list of managing partners is available at abcsupply.com/media-center/press-release.

Benchmark Inc. has added **Scott Kongable** and **Thomas E. Pientok** to its board of directors.

Brava Roof Tile has made **Jeremy Goldschmeding** chief commercial officer.

Drew Buchanan is now MuleHide's Blue Ridge territory manager and **Shawn Dennehy** is the company's Alabama-Tennessee-Mississippi territory manager.

Save time and get the job done faster with Versico's latest product innovation:

VersiWeld® 16' TPO

Scan here to learn more.

VERSICO ROOFING SYSTEMS

BUILDING VALUE

800.992.7663 | www.versico.com

NRCA NEW MEMBERS

ARCHITECTS/ENGINEERS/CONSULTANTS

BEE Consulting LLC, Edmonds, Wash.
Bradley W. Hughes, Wildomar, Calif.
Building Envelope Professionals Group LLC, Oregon, Wis.
Engineering Design & Testing Corp., Irondale, Ala.
Entuitive, Calgary, Alberta, Canada
Matrix Technologies Inc., Maumee, Ohio
MW, Montgomery, Texas
Pinzone Architectural Consulting, Cornelius, Ore.
R.J. Stahl Architect PC, Elmsford, N.Y.

CONTRACTORS

Amber Stone Construction, Chandler, Ariz.
Artisan Roofing Solutions, Tampa, Fla.
Black Gold Roofing Inc., Buellton, Calif.
Cherry Roofing Enterprises Inc., West Park, Fla.
Columbine Roofing LLC, Thornton, Colo.
Commercial Roofing Contractor, Denver
Craven Construction, Apache Junction, Ariz.
D&N Sheet Metal, Minneapolis
Delmarva Roofing & Coating Inc., Greenwood, Del.
Dereume Dunkel Roofing Co., Punxsutawney, Pa.
Diablo Roofing Inc., Hayward, Calif.
EMC Roofing LLC, Ocala, Fla.
Good Shepherd Roofing, Auburn, Ga.
Gopher Roofing LLC, Sarasota, Fla.
Howell's Home Roofing, Lebanon, Mo.
Imperial Roofing & Gutters Inc., Riverside, Calif.
JTA Roofing & Gutters LLC, Mount Dora, Fla.
KAM Roofing Services, Clearwater, Fla.
Keystone Roofing Inc., Littleton, Colo.
KPI 2 Enterprises Inc., Langhorne, Pa.
Landmark Contracting LLC, Baker City, Ore.
Method Exteriors LLC, New Orleans
PCR Commercial Roofing, Lewisville, N.C.
Piedmont Construction Co., Winston Salem, N.C.
Placer Roofing Inc., North Highlands, Calif.

NRCA LEGAL

LEGALCon Live 2025

Oct. 8–10

Immerse yourself in an exclusive experience led by leading legal minds.

Live at the Omni Chicago Hotel.

Register: $1,255 NRCA members | $1,575 nonmembers
$205 guests

nrca.net/legalcon

JOIN THE BUILDING ELITE.

Answering the need to establish a standard of qualifications and practice in the building enclosure industry, IIBEC offers several robust credential programs. IIBEC credential holders have demonstrated extensive knowledge and proved their expertise through examination, character reference, and professional experience. Credential holders are required to complete annual continuing education requirements and follow a code of ethics for the objectivity of service.

André Coppin, RRC, RRO
Seattle, WA

IIBEC RRC® REGISTERED ROOF CONSULTANT

Registered Roof Consultants (RRCs) are independent roofing experts with industry- wide knowledge of materials performance and design requirements. An RRC is knowledgeable of every facet of the roof construction process and serves as the building owner's councilor for matters on both existing and new construction. The demand for the RRC credential continues to grow as the industry recognizes the value of the RRC's quantified skill set.

GCK EXAM:* 90 QUESTIONS 4 HOURS
RRC EXAM: 60 QUESTIONS 4 HOURS

Registered Roof Observers (RROs) are roofing quality assurance observers who monitor the construction process and report roofing project compliance with approved construction specifications and best-practice installation procedures. An RRO is an on-site monitor for the design team. The RRO's vigilance helps keep construction on track with milestone tasks, deadlines, and budget. The RRO credential is the preferred standard of practice for quality assurance professionals.

RRO EXAM: 75 QUESTIONS 3 HOURS

IIBEC RRO® REGISTERED ROOF OBSERVER

IIBEC
INTERNATIONAL INSTITUTE OF BUILDING ENCLOSURE CONSULTANTS

iibec.org/credentials

Preman Roofing-Solar, San Diego
Proper Roofing & Remodeling, Houston
Quality Roofing, Bristol, Va.
Raymond Group, Gatineau, Quebec, Canada
Red Door Contracting LLC, Acworth, Ga.
Rhino Roofing and Restoration LLC, Taylors, S.C.
Right-Hand Roofing & Gutters, Bremen, Ga.
RoofCrafters Roofing LLC, Odessa, Fla.
Roofs Inc., Lyons, Ill.
RT Contractors LLC, El Paso, Texas
Schena Roofing & S/M Co. Inc., Chesterfield, Mich.
Sonshine Roofing Inc., Sarasota, Fla.
Storm Force Commercial, Southlake, Texas
Sundance Roofing Inc., Albuquerque, N.M.
Syntech Roofing and Waterproofing, Riverside, Calif.
The Waterproof Group, Marietta, Ga.
Titan Pros Roofing, Dallas
Transcona Roofing, Winnipeg, Manitoba, Canada
Triton Advanced Commercial Roof Systems, Saint Charles, Mo.
Valor Exterior Partners, Cincinnati
Vital Core Roofing, Perris, Calif.
Wide Meadow Roofing, Mooresville, N.C.
Wine County Roofing Inc., Santa Rosa, Calif.
W.W. Builders Inc., Duncan, Okla.
Your Choice Roofing LLC, Warrens, Wis.

INDUSTRIAL/INSTITUTIONAL

Directorate of Public Works, Aberdeen Proving Ground, Md.

MANUFACTURERS

ASCO U.S.A. Inc., Mattoon, Ill.
Taylon Skylights, Santa Ana, Calif.

MEMBER BRANCHES

A-1 All American Roofing LLC, San Diego
Dynamic National, Centennial, Colo.
Dynamic National, Maumelle, Ark.
Dynamic National, Memphis, Tenn.
Dynamic National, Provo, Utah
Dynamic Roofing Holdings d.b.a. Dynamic National, St. Petersburg, Fla.
Dynamic Roofing Holdings d.b.a. Dynamic National, The Colony, Texas

SERVICE PROVIDERS

Aastro Roofing Co., Deerfield Beach, Fla.
DW1, Peachtree Corners, Ga.
Grade-A Roofing Services, Grandview, Mo.

Take Airflow Efficiency Through The Roof

It's all in the Curves

NEW Deep Drawn Model

The Code Compliant Choice

Advanced Model 477

Until now, there was no way to use an out-of-the-box roof cap for venting dryers. Code disallows screens and requires a damper. Even when modified, other vents are too airflow restrictive.

Seamless Galvalume® Hood

The DryerJack® is *the* choice specifically designed to meet the demanding needs of clothes dryers. Visit DryerJack.com to learn how the patented curved damper delivers superior efficiency and helps minimize a very serious fire risk.

DryerJack®

INOVATE

888-443-7937
DryerJack.com

TopShield® TopCash℠

CONTRACTOR REWARDS PROGRAM

Are You Earning Your TopCash℠?

With TopShield's new TopCash℠ program you can earn rebates simply by buying select TopShield Products!

Products change often but once you register all orders are automatically tracked for any eligible products. Explore eligible products at ***TopShieldProducts.com***. Sign up on ***RoofHub.pro*** today and start earning your TopCash℠!

SCAN TO SIGN UP AND START SAVING TODAY!

*Images may depict past and present products in the TopCash℠ Program

MUST REGISTER FOR PROGRAM | REBATES SUPPLIED ON TOPSHIELD PREPAID MASTERCARD

This Card is issued by Sunrise Banks N.A., Member FDIC, pursuant to a license from Mastercard International Incorporated. Mastercard is a registered trademark, and the circles design is a trademark of Mastercard International Incorporated. This card may be used everywhere Debit Mastercard is accepted. Registration, activation, acceptance, or use of this card constitutes acceptance of the terms and conditions stated in the Prepaid Card Agreement.

EVENTS

SEPTEMBER

10
Virtual CERTA Train-the-trainer
NRCA
Online
Contact: NRCA's Customer Service Department
(866) ASK-NRCA (275-6722) or info@nrca.net
nrca.net

17-19
50th Annual Texas Roofing Conference
Roofing Contractors Association of Texas
Round Rock, Texas
Contact: RCAT
(800) 997-6631
rcat.net

28-30
Western Roofing Expo 2025
Western States Roofing Contractors Association
Las Vegas
Contact: WSRCA
(800) 725-0333 or info@wsrca.com
westernroofingexpo.com

OCTOBER

8-10
LEGALCon Live 2025
NRCA
Chicago
Contact: Crystal Wukovits, manager of NRCA University
cwukovits@nrca.net
nrca.net

20-22
2025 MRCA Conference & Expo
Midwest Roofing Contractors Association
Schaumburg, Ill.
Contact: MRCA
(800) 497-6722 or mrca@mrca.org
mrca.org

21-23
METALCON
Las Vegas
Contact: METALCON
(617) 965-0055 or info@metalcon.com
metalcon.com

27-30
NRCA's Fall Committee Meetings/ Roofing Alliance Member Meeting
NRCA
Scottsdale, Ariz.
Contact: NRCA's Customer Service Department
(866) ASK-NRCA (275-6722) or info@nrca.net
nrca.net

NOVEMBER

4-7
Greenbuild 2025
U.S. Green Building Council
Los Angeles
Contact: info@greenbuildexpo.com
greenbuildexpo.com

5-7
China Roofing & Waterproofing Expo
China National Building Waterproof Association
Shanghai, China
Contact: annazhang@cnwb.net
chinaroofexpo.cn

11-12
Fall-protection Trainer Course for Roofing
NRCA
Elgin, Ill.
Contact: Rich Trewyn, NRCA's director of enterprise risk management
(847) 493-7575 or rtrewyn@nrca.net
nrca.net

13
CERTA Train-the-trainer
NRCA
Elgin, Ill.
Contact: NRCA's Customer Service Department
(866) ASK-NRCA (275-6722) or info@nrca.net
nrca.net

DECEMBER

3
Roofing Industry Fall Protection from A to Z
NRCA
Itasca, Ill.
Contact: NRCA's Customer Service Department
(866) ASK-NRCA (275-6722) or info@nrca.net
nrca.net

Another Premium Roof Installation with SHARKSKIN®

The Ultimate Roof Underlayment

Code Compliance

MIAMI-DADE COUNTY APPROVED

Florida Building Code

ICC-ES

- No VOC's
- LEEDS
- Green
- Recyclable

TEXAS DEPARTMENT OF INSURANCE APPROVED

SHARKSKIN®

The Ultimate Roof Underlayment

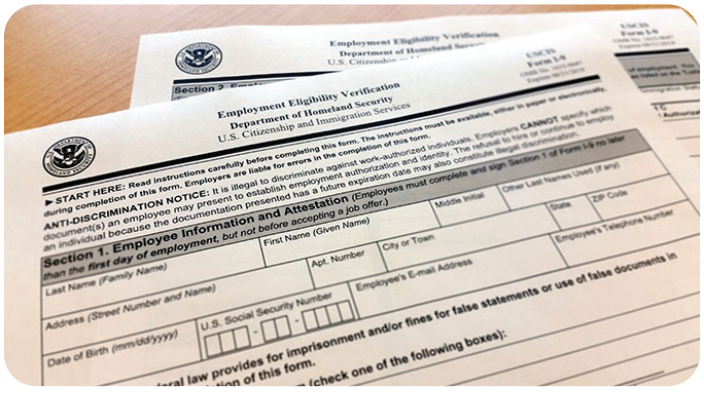
MADE IN THE USA

877.742.7507

www.sharkskinroof.com

During a recent NRCA webinar, **Let's Talk about Mental Health in Construction**, Kara McCaffrey, chief wellness officer at Houck Services Inc., Harrisburg, Pa., and Cheryl Ambrose, NRCA vice president of enterprise risk management, discussed worker mental health and the free resources available to educate your workforce.

Watch the webinar recording at nrca.net/education and learn how to improve worker well-being in your company on page 28.



Tighten your company's compliance "paper trail" and potentially reduce the risk of ICE visits by:

- **Running periodic in-house Form I-9 audits**
- **Enrolling in E-Verify**

Source: Cotney Attorneys & Consultants, Tampa, Fla.

Professional Roofing recently **won** a **2025 TRENDY bronze medal** for its May 2024 issue and NRCA won a **silver medal** for The NRCA 2024 Catalog.

The TRENDY Awards recognize excellence in design for book, manuals and catalogs.

In a survey of more than **2,000 U.S. adults**, vocational and trade school careers were most supported by:

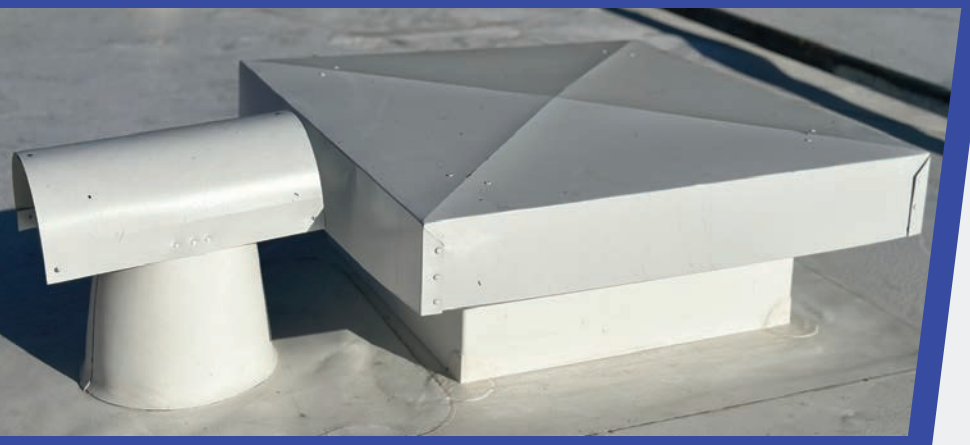
- Baby Boomers **(41%)**
- Generation X **(37%)**
- Millennials **(31%)**

Source: The American Staffing Association

Read how the younger generations are getting involved in the trades through SkillsUSA® on page 32.

Save Time & Labor Costs

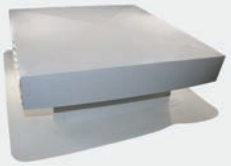
with FlashCo Prefabricated Accessories



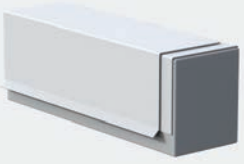
CELEBRATING 25TH ANNIVERSARY 2000 2025

FlashCo®

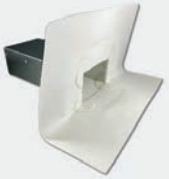
FLASHINGS



VENTS



EDGE METAL



DRAINS

ACCESSORIES

FlashCo®

FlashCo.com

LEARN MORE ON OUR NEW WEBSITE

GAF Master Flow™ Pivot™ Pipe Boot Flashing

Ready to Pivot?

Easier to install. Ordering made simpler.

The newly enhanced Master Flow™ Pivot™ Pipe Boot Flashing now features more flexible polymer pipe inserts and a more durable twist-lock mechanism inside the cap. Plus, we simplified ordering and inventory management by reducing SKUs and offering new Small and Large combo models. Each model includes two interchangeable inserts: 1.5″ and 2″ for the Small pivot body, and 3″ and 4″ for the Large pivot body.

You spoke. We delivered. Learn more at gaf.com/Pivot

A standard INDUSTRIES COMPANY

We protect what matters most™

GAF

©2025 GAF NEWPIVBOD 10/25