

CAROLINAS CONTACTS

CRSMCA - Covering the Carolinas for over 80 years



JULY - AUGUST 2023 ISSUE

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SKYLINE ROOFING, INC.

WES WILLIAMSON [2014-15]



KEN TETTERTON [1997]



TODD SMITH [2017-18]



RUDY BARNES [1954-55]
MIKE WILKINSON [1975-76]
WES WILKINSON [2013-14]

GOODWILL



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CRSMCA EXECUTIVE MEMBERS [2023-2024]

President, Jason Tetterton, Curtis Construction Co., Inc.
1st Vice President, Bobbie Jo Deal, CityScape Roofing, Inc.
2nd Vice President, Robert Hodges, R.K. Hydro-Vac, Inc.
Secretary/Treasurer, Hunter Steed, Wayne Roofing & Sheet Metal, Inc.
Past President, Bert Pickens, Pickens Contracting, Inc.

CRSMCA BOARD OF DIRECTOR MEMBERS

- 01
- 02 Casey Morgan, Triad Roofing Co., Inc. [Winston-Salem, NC]
- 03 Mike Degner, Radco Roofing [Mount Holly, NC]
- 04 David Panella, Hamlin Roofing Co., Inc. [Garner, NC]
- 05
- 06 Geoffrey Rempel, Hound Roofing, Inc. [Wilmington, NC]
- 07 Kristina Zushma, Spann Roofing & Sheet Metal [Conway, SC]
- 07 Trip Howland, Monarch Roofing, Inc.
- 08
- 09
- 10 Bryan Pribula, CL Burks Construction [Charleston, SC]

ASSOCIATE GROUP EXECUTIVE MEMBERS [2023-2024]

President, Darren McEvoy, Premier Building Products, Inc.
1st Vice President, Tara Burgei, Johns Manville
2nd Vice President, Mark Cameron, Mid-States Asphalt
Secretary/Treasurer, Tim Smart, Beacon Roofing Supply
Past President, Chris Love, Mule-Hide Products, Inc.

ASSOCIATE LIAISON MEMBERS

- 01 David Summers, Beacon Roofing Supply [Advance, NC]
- 02 Steve Hall, Sika-Sarnafil [Winston-Salem, NC]
- 03 Brad Damewood, Beacon Roofing Supply [Charlotte, NC]
- 03 Andy Butler, Roofers Supply of Greenville [Charlotte, NC]
- 04 Justin Maycher, GAF Materials Corporation [Raleigh, NC]
- 04 Bradley Hall, Mid-Atlantic Roofing Supply [Raleigh, NC]
- 05 Chad Bolt, ABC Supply Company, Inc. [Greenville, NC]
- 05 Todd Casey, Beacon Roofing Supply [Goldsboro, NC]
- 06 Anna Read Maltos, Superior Distribution [Wilmington, NC]
- 06 Kyle Bullock, Mid-Atlantic Roofing Supply [Wilmington, NC]
- 06 Jake Smith, Mid-Atlantic Roofing Supply [Wilmington, NC]
- 07 Lee Wells, Beacon Roofing Supply [Myrtle Beach, SC]
- 08
- 09 Nathan Rollins, HB Fuller Construction Adhesives [Greer, SC]
- 10

THE CRSMCA MISSION STATEMENT

To promote and safeguard the common business interest of its members and to improve conditions by educating all persons concerning the roofing and sheet metal business and industry. To work for the development and progress of the roofing and sheet metal business industry and to work with individuals' organizations and governmental agencies toward the achievement of a stronger profession of the roofing and sheet metal industry.

CAROLINAS ROOFING & SHEET METAL CONTRACTORS ASSOCIATION, INC.

PO BOX 7643
CHARLOTTE NC, 28241-7643

710 IMPERIAL COURT
CHARLOTTE, NC 28273

704.556.1228
www.crsmdca.org

CRSMCA STAFF MEMBERS

Executive Director, Carla B. Sims [cbsims@crsmca.org]
Assistant, Karin Barahona [staff@crsmca.org]

CRSMCA MAGAZINE MEMBERS

Chairman, Henry Sackett, ABC Supply Company, Inc.
Josh Dernosek, CL Burks Construction
Brandon Jackson, Petersen Aluminum Corporation
Rainy Ugenmach, NBHandy Company
Carla Sims, CRSMCA

Carolinas Contacts address issues and concerns of the roofing industry. Technology, test, and building codes are constantly changing, and such changes may not be reflected herein. All information is presented for the benefit of our readers and does not necessarily reflect the views of CRSMCA. Press releases and product information presented do not reflect all available materials. Before purchasing, installing, using, or recommending any product, system, or method, readers should make independent evaluations.

AFFILIATED WITH NATIONAL ROOFING CONTRACTORS ASSOCIATION, INC.



2023 CALENDAR 2024 OF EVENTS



VISIT US AT
WWW.CRSMCA.ORG
704.556.1228



ANNUAL GOLF TOURNAMENT

CAROLINAS ROOFING AND SHEET METAL
CONTRACTORS ASSOCIATION, INC.
PROFESSIONAL ROOFING CONTRACTORS COVERING THE CAROLINAS

THURS OCTOBER 12
ROCKY RIVER GOLF CLUB
[CONCORD, NC]



NEW EVENT



2024 CAROLINAS roofing expo & annual meeting

JUNE 26-29

**details & registration coming
in the Fall 2023*



MARRIOTT RESORT MYRTLE
BEACH GRANDE DUNES
MYRTLE BEACH, SC

REGISTRATION FOR EACH MEETING CAN BE FOUND ON THE HOME
PAGE OF THE CRSMCA WEBSITE!



Message from President, Jason Tetterton

I am very appreciative of the honor to be the **2023-24 President** on the Contractor's side. I look forward to serving this year alongside Bobbie Jo Deal, Robert Hodges, Hunter Steed and Bert Pickens on the Executive committee as well as Darren McEvoy, the Associate Group President.

We are going to be focused on putting together a plan for the association to be financially sustainable for the future. Our goal is to put the association in a position to thrive and benefit its members.

Currently, we are struggling financially and are more in survival and maintain mode. This did not happen overnight and we will not get it corrected overnight either, but we want to get it turned around.

We will have **combined District meetings for the Fall:**
September 14 in Raleigh
September 21 in Charlotte
September 28 in Charleston

On October 12, we will have our Annual Golf Tournament in Concord, NC . This has been a great source of revenue for the association and funds the **Dottie Nagle Scholarship Program.**

Please let me know if you have any suggestions or feedback on anything with the association. **The association is only as good as we make it.**

Jason Tetterton, Curtis Construction Co., Inc.
CRSMCA President 2023-2024
jason@curtiscc.com
mobile: 252.378.5042

DETAILS & REGISTRATION AVAILABLE ONLINE AT
www.crsmda.org/meetinginfo



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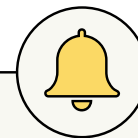
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EVERY TUESDAY MORNING!
CRSMCA Weekly e-Newsletter

Hello CRSMCA Members!

I hope everyone is having a profitable and safe 2023. What a great Summer Convention/Annual Meeting we had at the Omni Grove Park Inn in Asheville, NC! It was great seeing everyone there and meeting some of your families. ***That is what this organization is about. Family...A great big ROOFING family!***

It is truly an honor to be serving as your Associate Group President for 2023-2024. I would like to thank Past President, Chris Love, for his dedication and service to this organization. He did a great job! I am here to help this organization in any way I can. Please reach out to me if you have any questions, comments, or ideas on how we can do that.

I would also like to thank those serving with me on the Associate Group Board for 2023-2024. It's a great group and I look forward to accomplishing great things with them:

- 1st Vice President: Tara Burgei, Johns Manville
- 2nd Vice President: Mark Cameron, Mid-States Asphalt
- Secretary/Treasurer: Tim Smart, Beacon Roofing Supply
- Past President: Chris Love, Mule-Hide Products

During my incoming speech at the 80th (yes 80th!) Summer Convention/Annual Meeting in Asheville, I mentioned the word **RECRUITMENT**. THE CONTRACTOR is why we are here and why I am typing up this newsletter. It is up to me, the Associate Group Board, and all members to recruit new members. **Let's Grow!**

I look forward to speaking with our new CRSMCA President, Jason Tetterton, for input from a contractor's point of view regarding recruitment. Let us know how we can help. We will supply you with any tools you need to show the benefits of joining the CRSMCA.

Another word I would like to leave you all with is... **ATTEND**. Attend the District Meetings. Please be on the lookout for your District Meeting dates. Please attend your local meetings and invite someone who never has gone before.

In closing, I look forward to seeing everyone at the Annual Golf Tournament on October 12, 2023, at Rocky River Golf Course in Concord, NC. And let's not forget the 1st Annual CRSMCA Sporting Clays Tournament coming up on March 21, 2024. That for sure will be a great event!

Thank you all and thank you for letting me be part of this great organization.

Sincerely,
Darren McEvoy, Premier Building Products
CRSMCA Associate Group President 2023-2024



Message from Associate Group President, Darren McEvoy

SOME NEW THINGS ARE COMING TO CRSMCA!



2024 **CAROLINAS**
roofing expo
& annual meeting
JUNE 26-29 
*details & registration coming in the Fall 2023
MARRIOTT RESORT MYRTLE BEACH GRANDE DUNES
MYRTLE BEACH, SC



Message from Executive Director, Carla B. Sims

SIGN UP FOR SPONSORSHIP & TEAMS



ANNUAL GOLF TOURNAMENT

CAROLINAS ROOFING AND SHEET METAL CONTRACTORS ASSOCIATION, INC.
PROFESSIONAL ROOFING CONTRACTORS COVERING THE CAROLINAS

THURS OCTOBER 12
ROCKY RIVER GOLF CLUB
[CONCORD, NC]



Having a positive mindset for CRSMCA members!

At most of the CRSMCA meetings and events, we have shared the goal of re-engaging CRSMCA members with the success of higher attendance at all events to date.

CRSMCA's **80th celebration at the Annual Meeting/Summer Convention** in Asheville, NC continued to show the trend! We had the highest attendance numbers since 2011! Thank you to the CRSMCA members, friend and families that attended the event and help to make it a blast... including our friends that we haven't seen in a few years!

The event highlights were from:

- Kyle Thomas [past NRCA Chairman] providing industry outlook in the supply-chain, re-roofing contracts and NRCA's focus in workplace development
- Mitch Reaves [veteran roofing professional] sharing what he learned in the roofing industry from selling to ownership
- Julie Hooten [Teague Campbell] discussing the process of a workers comp claim from beginning to end for the employers viewpoint
- CRSMCA's Past President Roundtable discussion that provided a conversation with members on the changes in the industry that prove to be true challenges with the economy

The CRSMCA Board members and I are excited to see the members coming together at the meetings and conferences and hope that you continue to find YOUR value with YOUR membership in CRSMCA!

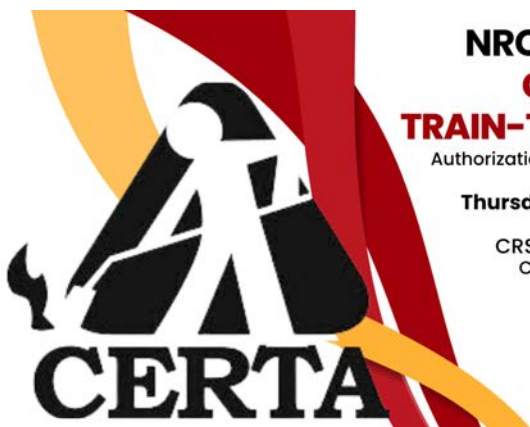
It's a NEW YEAR for CRSMCA

We have now entered into the 2023-2024 fiscal year and with that comes the **NEW** publication of the CRSMCA Membership Directory! I hope you received your email with the publication along with your information to utilize the **MEMBERS PORTAL** on the CRSMCA website. Utilizing the members portal allows you to register online for CRSMCA events and meetings! With a new year started, new events are being prepared for you! Be sure to check your weekly e-Newsletter for updates on these events as well as your registration and sponsorship opportunities.

Speaking of SPONSORSHIPS

CRSMCA is forming a **NEW LOOK** to sponsorship opportunities. CRSMCA will be aligning the annual membership renewal with one-time sign up for sponsoring events and meetings for the 2024-2025 fiscal year. CRSMCA will be providing this information to members early 2024 for early sign-up opportunities. If you would like mor information about this, please contact me directly!

I look forward to speaking with you soon and seeing you at the CRSMCA event! -Carla B. Sims, Executive Director



NRCA/MRCA
CERTA
TRAIN-THE-TRAINER
Authorization & Re-Authorization

Thursday, December 7

CRSMCA Facility
Charlotte, NC

hosted by CRSMCA

Visit Our Website
www.crszca.org

find us on social media



NEWS FROM THE CAROLINAS



LEARN ABOUT THE CRSMC SELF-INSURERS FUND PROGRAM

Carolinas Roofing and Sheet Metal Contractors – Self-Insurers Fund is the oldest worker’s Compensation group funded in the Carolinas and could be saving your company money! Members within the CRSMC-SIF program are not just purchasing their workers compensation but investing into a program that brings additional value to their company through a commitment to ensure the safety of their employees. As a member/customer within the program, you participate in building a fund that is beneficial for all members/customers within the program, you could receive competitive rates within the insurance industry, and you could receive a return of interest determined by the CRSMC-SIF Trustees and other approved returns during the year. In the year 2018, the CRSMC-SIF returned more than **\$1 MILLION DOLLARS** to the CRSMC-SIF members!

Additionally, the CRSMC-SIF is large component of support for the CRSMCA through sponsoring the CRSMCA Annual Meeting/Summer Convention and attendance of Trustees at the event. **HAVE YOU CONSIDERED CRSMC-SIF FOR YOUR WORKERS COMPENSATION NEEDS?**



South Carolina of Labor, Licensing and Regulation

www.llr.sc.gov

Training information, registration and course details can be found at

www.osha.llr.sc.gov



NCDOL
N.C. Department of Labor

www.labor.nc.gov

The NCDOL is pleased to offer **pre-recorded webinars** ready for you and your employees to view at your convenience. To access a webinar visit

www.labor.communications.its.state.nc.us/OSHPublic/ETTA/class_regist/calendar.cfm, double-click on the applicable safety and health topic below and it will automatically start the training session.

Note: Some of the webinars are hosted on a training platform and will require you to log in with your name and email in order to access the training session.

The Department of Labor does not provide certificates for employees viewing our pre-recorded webinars. These webinars were live recordings and contain chat conversations. For this reason, you will not be able to interact with the instructor during the recording. If you prefer to receive a certificate and have interaction with an instructor, please refer to our training schedule above for current live webinar offerings.

Training information, registration and course details can be found at www.labor.nc.gov/safety-and-health/training

How SC LLR is going to implementing and interpreting H 4115 as it relates to roofing projects?

A brief Q & A between CRSMCA General Counsel (Brian Schoolman, Safran Law Offices) and the Board Administrator at SC LLR

CRSMCA | Q: Are all general roofing licensees are going to essentially be promoted to the Roofing classification?

SC LLR | A: This will impact roughly 70 active licensees who ONLY have the general roofing classification. Of the 166 active licensees for roofing, 96 currently have General Roofing and Specialty. Most of these licensees have been licensed for many years. The SC LLR has only had 55 exam attempts for the roofing exam in the last 2 1/2 years. Most have seen the benefit in just starting out with specialty roofing, and that exam has been significantly more popular.

CRSMCA | Q: Under the new legislation, it is interpreted that a GC with a Building classification will now be permitted to bid for any roofing project, including commercial or institutional projects, whereas previously the BD classification only included the general roofing scopes.

SC LLR | A: This interpretation is correct as the new roofing classification takes the place of the other two classifications and is included as a sub classification under the building classification.

CRSMCA | Q: Is the SC LLR going to send out an e-blast on the topic of the changes? Will that be published on LLR's website or is it something for which a subscription is needed, so it can get distributed to South Carolina members.

SC LLR | A: The SC LLR has published a Legislative Update on the website that can be viewed at

www.llr.sc.gov/clb/PDFFiles/CLB2023LegislativeUpdate.pdf. For additional questions regarding Contractor’s Licensing in South Carolina, please visit us at www.llr.sc.gov/clb

OSHA electronic recordkeeping rule to take effect in 2024

The rule will require employers with 100 or more employees to submit information from Forms 300 and 301 once per year.

Written by Ryan Golden, ConstructionDive, Published July 17, 2023

Dive Brief:

- The Occupational Safety and Health Administration published Friday its final electronic recordkeeping rule requiring employers with 100 or more employees in certain industries to submit information from the agency's Forms 300 and 301 once per year.
- OSHA's rule also updates its system for determining which industries are subject to the information submission requirement. In a departure from the proposed rule, OSHA has retained the requirement for employers with 250 or more employees to electronically submit information from Form 300A once per year. Additionally, employers with 20 to 249 employees in certain designated industries will continue to be required to electronically submit information from Form 300A once per year.
- Per the rule, the agency will post data gathered via these submissions on a public website, with identifying information — such as employees' names and contact information — removed. The final rule is effective Jan. 1, 2024.

Dive Insight:

The announcement represents OSHA's second attempt at enhancing electronic record requirements, the first of which was proposed by President Barack Obama's administration in 2016 but later rolled back by President Donald Trump's administration. Under the rule, covered employers will be required to make electronic data submissions to OSHA on March 2 of the year after the calendar year covered by each form. Employers submitting 2023 calendar year information would therefore need to do so by March 2, 2024, OSHA said.

[continued on pg 9]



IN MEMORIAM

Remembering our friends in the industry

James Arnold "Jim" Stone

Mr. James Arnold "Jim" Stone, Jr., 67, of Ninety Six, passed away on Monday, July 3, 2023. He was born in Greenwood, he was a son of the late James Arnold Stone and Barbara Nickles Stone. James worked for Seaman Corporation for over 25 years before opening his business Jim Stone and Associates. He was an avid Clemson Fan, enjoyed going to the lake, riding jet skis, golfing and lifting weights. Jim always enjoyed making people laugh with his humor and outgoing personality. He loved spending time with his family, cooking for them and loved dogs. Jim was of the Christian faith and was involved in his younger years at RWOC in Greenville.

He was preceded in death by a brother, Tom Stone; and mother-in-law, Francie Sue Bisek.

Surviving in addition to his wife, Vicki Bisek Stone, of the home are a son, Jamie Stone (Melissa) of Duncan; his fur baby, Chester; sister, Cathy Stone Elledge (David) of Irmo; grandchildren, Evan and Isaac Stone; sisters-in-law, Cindi Rushton, Lori Price (Timmy) and Joni Bisek (Jeff); father-in-law, Kenneth J. Bisek; several nephews, great nephews and extended family.

Harley Funeral Home and Crematory is in charge of arrangements.

Wendell Stephen "Steve" Simmons

Mr. Wendell Stephen "Steve" Simmons age 78 of Mount Airy passed away on Sunday, August 13, 2023, at Forsyth Medical Center. He was born in Newport News, VA, September 18, 1944, the son of Wendell and Bertha Anderson Simmons.

Steve was the founder of Professional Roofing Services, and an active member and trustee of Central United Methodist Church. He was also involved with the Class Meeting of Central United Methodist Church. Steve was an avid golfer, storyteller, and loved to travel the world.

Surviving is his wife, Marie Bryant Simmons; daughter and son-in-law, Ann Marie and Thomas Livengood; son and daughter-in-law, Bryant and Cindy Simmons; grandchildren, Ian Livengood, Stephen Livengood, William Livengood, Autumn Simmons, Hayden Simmons, and Parker Simmons; sister, Sue Simmons Smith; brothers and sisters-in-law and David and Pam Simmons, Charles and Jane Simmons.

In addition to his parents, he was preceded in death by his sister, Diane Pride and brothers-in-law, Russell Smith and Glenn Pride.

In lieu of flowers memorials may be made to Central United Methodist Church, 1909 N. Main St, Mount Airy, NC 27030, Ararat Cemetery, P.O. Box 60 Ararat, NC 27007, and/or Mountain Valley Hospice, 1407 Edgewood Drive # 101, Mount Airy, NC 27030.

Moody Funeral Service is serving the Simmons family.

"YOU DESERVE THE BEST!"



**4336 WACCAMAW BLVD,
MYRTLE BEACH, SC 29579
843-559-4003**



www.nrca.net

NRCA's new officers and directors begin their terms

NRCA elected new officers and directors during its 136th Annual Convention March 6-9 in Dallas. Their terms begin June 1. Lisa Sprick, president of Sprick Roofing Co. Inc., Corvallis, Ore., was elected NRCA chairman of the board, and Doug Duncan, president of Nations Roof, Villa Park, Ill., was elected NRCA chairman of the board-elect. Cheryl Chapman, general manager of Empire Roofing, Fort Worth, Texas; Alex Hernandez, president of Clark Roofing Company, Broadview, Ill.; and Gary Howes, COO of The Durable Slate Company, Columbus, Ohio, were elected vice chairmen for two-year terms.

- Additionally, the following were elected as new NRCA directors:
- Danny Davis, president of DAVCO Roofing & Sheet Metal Inc., Charlotte, N.C.
 - Piers Dormeyer, president of commercial group for Eagleview, Bellevue, Wash.
 - John Embow, president of Grove Roofing Services, Buffalo, N.Y.
 - Jean-Paul Grivas, project manager for Ray Nolan Roofing Co. Inc., Louisville, Ky.
 - Bryan Karel, vice president of operations for Garlock-French Corp., Minneapolis
 - John Kiesel, president of Division 7 Roofing, Galena, Ohio
 - Michael Kruger, vice president of L.E. Schwartz and Sons Inc., Macon, Ga.
 - Christian Madsen, president of Madsen Roofing & Waterproofing Inc., Sacramento, Calif.
 - Jake Magalsky, president of Ace Roofing LLC, Wilsall, Mont.
 - Wendy Marvin, CEO and founder of Matrix Roofing & Home Solutions, Vancouver, Wash.
 - Sherri Miles, vice president of J.D. Miles & Sons Inc., Chesapeake, Va.
 - Lynn Price, president of Dryspace Inc., Cedar Rapids, Iowa
 - Jim Prusak, owner of Prusak Roofing Inc., Bridgeview, Ill.

Housing is open for the 2024 IRE and NRCAs convention

Lodging options are available for the 2024 International Roofing Expo® and NRCA's 137th Annual Convention Feb. 6-8, 2024, at the Las Vegas Convention Center.

The headquarters hotel is the Westgate Las Vegas Resort & Casino. The trade show and convention provide attendees with opportunities to network with fellow roofing professionals from around the world; see the newest industry products, equipment and services; and learn from the industry's leading experts.

For more information about the 2024 IRE, visit www.theroofingexpo.com.



(continued) OSHA electronic recordkeeping rule to take effect in 2024

In its April proposed rule, OSHA included a list of industries used to determine which employers with 100 or more employees must submit Form 300 and Form 301 information. The final rule expands that list, adding six more industries: logging; hunting and trapping; other furniture related product manufacturing; miscellaneous durable goods merchant wholesalers; taxi and limousine services; and other support activities for transportation. In public comments written in response to the agency's proposed rule, several employer advocates voiced concerns about the information collection. The U.S. Chamber of Commerce, for example, said the inclusion of data on the number of employees and hours worked on Form 300A annual summaries could be used by competitors to gain insight on employers' "efficiencies and productivity rates."

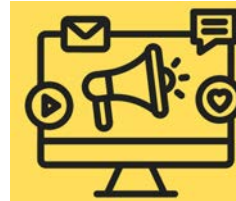
"Furthermore, the establishment-specific nature of the data from the 300 and 301 forms will mean that adversaries and parties wishing to mischaracterize an employer's safety record will have no trouble doing so with great specificity," the Chamber wrote. "Merely because an injury or illness is recorded does not mean that employer has a weak safety program, or any OSHA violations."

Similarly, public comments from the Motor & Equipment Manufacturers Association said employers would need to expend "significant time and resources" to ensure that personally identifiable information is stripped from data submitted to OSHA. MEMA also said the expanded data collection would be unlikely to reduce workplace injuries and illnesses, adding that this data "would become stale by the time it is made public, and in any event, many workplace injuries occur due to circumstances entirely outside of an employer's control."

OSHA stated in the final rule that online availability of the data would allow the public to "determine which workplaces in a particular industry are the safest, and identify emerging injury and illness trends in particular industries" as well as make decisions about which companies and industries to support and work for.

In a media briefing Monday, Assistant Secretary of Labor for Occupational Safety and Health Doug Parker said covered employers should not include personally identifiable information in their submissions to OSHA, and that the agency crafted the reporting process to address such concerns. OSHA, Parker said, will also take steps to ensure sensitive information is not made public.

"Congress intended for the Occupational Safety and Health Act to include reporting procedures that would provide the agency and the public with an understanding of the safety and health problems workers face, and this rule is a big step in finally realizing that objective," Parker said in a press release. "The safety and health community will benefit from the insights this information will provide at the industry level, while workers and employers will be able to make more informed decisions about their workplace's safety and health."



promote your business...

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GOLF TOURNAMENT PLAYER REGISTRATION FORM

*Please complete this form to the best of your ability and return to
Carla Sims (CRSMCA Executive Director) at csims@crsmca.org by
the date provided below. Questions: 704.556.1228 ext 402



PO Box 7643 | Charlotte, NC 28241
www.crsmca.org

CRSMCA's Golf Tournament raises funds for the Dottie Nagle Scholarship Program that awards two (2) applicants with a one-time scholarship to any accredited post-secondary institution. This is a great way to give back to your industry and your association members. Learn more about the scholarship program at [crsmca.org/Dottie Nagle Scholarship](http://crsmca.org/Dottie_Nagle_Scholarship).

TOURNAMENT DATE: THURSDAY, OCTOBER 12, 2023

RSVP PRIOR TO: WEDNESDAY, SEPTEMBER 20, 2023

LOCATION:

Rocky River Golf Club
6900 Bruton Smith Blvd
Concord, NC 28027

AGENDA:

8:30am	Sponsors Check-in
9:45am	Teams Check-in
10:45am	Bag Lunches provided to attendees
11:00am	Announcements
11:15am	Tournament Play Begins
5:15pm	Pick-up Awards & Announce 1 st Place Team



COMPANY INFORMATION

NAME: _____ CONTACT: _____

EMAIL (for confirmation): _____

PLAYERS TO REGISTER:

NAME: _____

NAME: _____

NAME: _____

NAME: _____

SELECT YOUR ITEMS OR PURCHASE:

TEAM OF 4-PLAYERS REGISTRATION: \$475.00 *includes player fee, greens fees, golf-cart rental, and lunch

INDIVIDUAL PLAYER REGISTRATION: \$125.00 *includes player fee, greens fees, and lunch
(you will be placed on a team at random)

ADDITIONAL PRE-PURCHASES:

Poker Run Card Game	<input type="checkbox"/> \$20.00 per hand	*Best hand receives 50% of funds collected
Mulligan's Package (max 1 per person)	<input type="checkbox"/> \$10.00 per package	*includes (1) mulligan, (1) tee-buster, & (5) raffle item tickets
Raffle Item Tickets	<input type="checkbox"/> \$10.00 (8) tickets	<input type="checkbox"/> \$20.00 (20) tickets <input type="checkbox"/> \$40.00 (50) tickets

PAYMENT MUST ACCOMPANY REGISTRATION:

check enclosed credit card *payments will incur 3% convenience fee **TOTAL PAYMENT: \$** _____

CARD NUMBER: _____

EXP DATE: _____ CVV CODE: _____ BILLING ZIP CODE: _____

EMAIL FOR RECEIPT: _____

*Due to PCI compliance, CRSMCA can not retain credit card information. For security purposes, all information will be destroyed after processing.
Thank you for your understanding.*

Photos from



CRSMCA RECOGNIZES 2023 GORDON M. WATERS DISTINGUISHED SERVICE AWARD RICHARD "DICK" BAXTER

Dick Baxter's experience in the roofing industry is as broad as it gets, including areas such as manufacturing, consulting, and contracting. Dick received his bachelor's degree from the University of Oregon in 1964, and then entered the U.S. Army as a second lieutenant destined to serve in Vietnam. After returning from Vietnam, he enrolled at the University of Oregon and earned his master's degree in business administration in 1970.

Dick entered the roofing industry in 1970, joining Owens-Corning Fiberglas Corp as a built-up roofing specialist in the Chicago/Milwaukee area.

Dick moved up quickly in the company. In 1973, he was promoted to a national product support position for the Owens-Corning built-up roofing program. His responsibilities included product and specification evaluation, troubleshooting and job reconciliation, training for Owens-Corning-approved applicators and training for in-house representatives.

Dick then assumed responsibility for the national marketing of Owens-Corning's roofing and waterproofing materials in 1975, with accountability for: coordination of research and development; product and specification development and publication; manufacturing coordination; technical support for field representatives; and development and publication of technical materials. He was also a liaison for Owen's Corning's international affiliates.

In 1978, Dick purchased Carolina Roofing Service, Inc., which performed construction contracting services in the southeastern part of the United States. This included inspections on roofing, waterproofing and asphalt paving systems, both nationally and internationally.

In addition to his normal workload, Dick was a regular instructor at the Roofing Industry Educational Institute and spent left over time writing industry-specific publications from manuals published by NRCA, U.S. League of Savings Institution, the Roofing Technology to articles printed in the Professional Roofing magazine, the Plant Engineering, and Architectural Record; just to name a few.

Dick was a longtime member of CRSMCA as well as NRCA, serving as a Board of Director for NRCA and serving as NRCA Vice President in 1986-1987. Throughout Dick's involvement with the organizations and in the roofing industry, he served on over 16 committees, has been a lead presenter at roofing industry conferences and has participated in many panel discussions.

He is the father of our friend and past president of CRSMCA, Scott Baxter, and grandfather to Luke and Ben.

Dick received the NRCA JA Piper Award in 1992 and we are honored to present him with the 2023 Gordon M. Waters Distinguished Service Award recipient



HISTORY OF GORDON M. WATERS

Gordon lived in Rocky Mount, NC and headed up Water Brothers who started in business in 1921. They installed roofing and sheet metal work but did not handle furnaces. Gordon was interested in improving his equipment, had put in a spot welder, and was also adding to his hoisting equipment, he was looking around and thought of power shear and power rollers. It was a pleasure to associate with roofers like Gordon Waters.

In 1942, a group of Carolina roofers and sheet metal workers gathered in Charlotte to reorganize the CRSMCA, Gordon was a new member and attendee but was asked to act as temporary secretary.

The CRSMCA Board members felt that he was doing a great job and was elected as an officer and eventually served as president. Gordon was later selected to represent the CRSMCA at the United Roofing Contractors Association Chicago convention. Gordon continued to receive recognition for his commitment and dedication to the industry and was elected to serve on the Board of Directors of the national association.

In the two years, on the Board and on committees, his work was such that at the St. Louis convention in February, Gordon was elected Second Vice President of URA.

In May 1946, Water Brothers was approved to apply bonded roofs by Barrett and Johns Manville. They were busy and had quite a bit of work lined up for the summer and fall. Gordon said things looked good for him that year, if they could just get deliveries of material. He said labor conditions had improved for them. They had been approved for on-the-job training for veterans and were employing 10 returned veterans that year. He said veterans are good average employees.

In 1964, the CRSMCA Board developed the Gordon M Water Distinguished Service Award in honor of Mr. Waters for his service and commitment to the roofing industry and in 1965 Gordon became the first recipient of this award.

For almost 60 years, this honor has been passed down to deserving individuals. This award signifies CRSMCA's highest honor.



Subcontractors Feel the Pinch but Still Expect Growth

Written by Jen A. Miller, ConstructionDive, Published June 1, 2023

A shrinking labor pool and supply chain delays impact subs' bottom lines, but the silver lining of the IJIA has gotten shinier.

U.S. subcontractors are heading into the second half of 2023 facing a mixed bag of issues.

Inflation costs and labor availability add persistent pressure, and pandemic-induced supply chain issues haven't entirely resolved. But most subs had business revenue growth in 2022 and expect growth this year.

That's what Billd, an Austin, Texas-based construction financial support firm, found in its third annual National Subcontractor Market Report Survey of nearly 900 subcontractors in January. Those working to keep the subcontractor part of the construction industry afloat while still fighting some tricky headwinds have different strategies for navigating the uncertain landscape.

Here are some of their top concerns:

Skilled worker shortage

Labor continues to be an issue for subcontractors. Billd found that 49% of respondents said lack of availability of skilled, affordable construction labor will be the biggest risk to their business this year. Part of that is financial: Labor costs have gone up 15% since 2022, according to the report.

But it's also demand. The \$1.2 trillion Infrastructure Investment and Jobs Act means that contractors will need hundreds of thousands of workers to deliver those projects. At the same time, pandemic-related retirements have created a gaping talent hole.

"A lot of folks that were in their early 60s got out and they didn't come back," said Chuck Goodrich, president and CEO of Indianapolis, Indiana-based Gaylor Electric. "We're replacing those 30-year vets, 40-year vets, with 18- to 30-year-olds who have either entered the construction force or are just coming out of school."

A determined focus on training and education, such as investment in programs that recruit young people, is helping, said Goodrich. That includes a change to negative perceptions of working in the construction trades and providing education and training opportunities directly to high school students to prepare them for careers in the field. (Goodrich is also a member of the Indiana House of Representatives, [and works on initiatives in this direction.](#))

But rushing workers into these jobs can backfire, said Spencer Krebs, associate at Cleveland-based law firm Tucker Ellis LLP.

"When you don't have quality workers, you tend to hire folks who are less qualified and result in potential claims, or delays or defects. These issues have a trickle-down effect and really hurt their bottom line," he said of subcontractors.

Inflation and materials issues

While many pandemic-related pressures have eased, inflation has not. Billd found that subcontractors paid an extra \$97 billion in materials (26% increase) and labor (15% increase) than expected. In addition, one third of subcontractors reported a decline in profits because bids were not rising fast enough to stay in line with input costs.

This has especially become a problem for subcontractors that signed fixed price contracts, as diesel and fuel prices have skyrocketed, said Krebs. Some of his firm's clients aren't as worried about making a profit as worried about "not going into the red," he said, because prices have spiked.

The good news is that supply chain chaos has leveled off, said Goodrich. Lead times are still long, but they're consistent. During the pandemic for example, the lead time for a 200-amp switchboard might have started at 12 weeks and stretched to around 40 weeks or even 60 weeks. While the lead time still may be 40 weeks, at least it's sticking in one place.

"It's still tremendously long, but at least now it can be built into schedules," he said.

Cash flow disruptions

Subcontractors are still paying out of pocket before getting paid themselves, according to Billd: 87% of respondents reported doing so, up from 62% in 2022.

Goodrich said he sees shades of the 2008-2009 recession where it was "not so much that we weren't running our business, but that we stopped getting paid," he said. Payment terms went out as far as 90 days, but vendors expected to be paid in 30. Right now, subcontractors pay for labor and materials before getting paid themselves, with an average wait time of 74 days, the survey said.

Working closely with general contractors and owners and having ongoing discussions about these pressures, has helped, as has working together to stick to a finish date and determine "what we're going to do to get there." Such collaboration means "having a partnership instead of adversarial relationship," Goodrich said.

Despite these continuing disruptions, not all is lost. Despite 57% of respondents reporting a decrease in profitability, 61% still had business revenue growth in 2022, and 72% of subcontractors plan for growth in 2023.

Goodrich admits that he's an "unapologetic, passionate optimist," and that he sees continuing better days ahead for subcontractors.

"Inflation has come down. We're working tremendously hard on students coming into our business, so I think that will improve," he said.

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METAL ROOFING: START-TO-FINISH [PART 1]

Why Metal Roofing Matters

Written by Lee Ann M. Slattery, CSI, CCPR, LEED AP BD+C, Published in Metal Architecture, June 2023

Metal roofing is a preferred roofing material due to its longevity, resilience to damage from fire, hail and high wind events, and minimal maintenance required. Other reasons metal is selected by many building owners include the environmental impacts of metal when compared to other roofing materials. Metal roofing is produced from high recycled content and the fact that it can be completely recycled at the end of its long service life of over 50 years makes it an obvious choice for building owners.

With the addition of cool reflective paint pigments that reduce a building's cooling load and the fact that solar panels are easily installed onto a standing seam metal roof, metal roofing continues to grow in market share. As states and local governments introduce mandates for solar panels being installed on buildings, that may also have an impact on an increase in metal roof installations.

A standing seam metal roof is the ideal platform for solar panels due to its long service life. When installing a crystalline photovoltaic solar system (typically warranted for 25 years of power generation), over a metal roof, a building owner benefits from a roofing substrate that has a greater life expectancy than the solar panels. Standing seam metal panels also provide a natural platform for attaching crystalline systems without any roof penetration. Special clamps are used to attach the solar panels to the metal seams. Additionally, highly reflective roofs with cooler rooftop temperatures result in better performance of solar panels. Even if a building owner is not prepared to invest in a rooftop solar array now, by installing a solar ready standing seam metal roof, the solar panels can easily be added a couple of years, or even decades, later.

Insulated metal roof panels (IMPs) provide the look of a standing seam metal roof with the added benefits of thermal performance, building efficiency, and durability. IMP roof panels are more quickly installed when compared to individual roof components, therefore drying in a building within a shorter period of time, accelerating the construction schedule and building completion. Solar panels can also be installed on standing seam IMP roofing. Regarding cool metal roofing, cool pigment paints reflect infrared radiation, allowing colors to resist chalking and fading, while maintaining cooler surface temperatures. These coatings meet national energy standards and guidelines. Many cool paint colors comply with stringent California Title 24 Building Energy Efficiency Standards. LEED credits can be acquired depending on the roof's solar reflectance index and solar-ready capabilities.

In addition to cool paint pigments, above sheathing ventilation (ASV), can help to make a building cooler and more energy efficient. ASV is an air space between a roofing panel and the deck. ASV can be implemented in retrofits when metal roofing is installed over the previous roof system. Additionally, new commercial and residential roofing projects can include ASV by specifying an appropriate air gap. ASV creates energy savings by reducing air-conditioning costs in

the summer and adding insulation value during the winter, as proven by testing performance sponsored by the Metal Construction Association (MCA) at Oak Ridge National Laboratory. ASV also minimizes the effect of condensation between the roof layers. When combined with cool pigment technology, ASV can enhance the benefits of both technologies.

As you can see, there are many reasons to consider metal roofing for your next project, and why metal should matter to a building owner and to the environment. From increasing a building's energy efficiency, to metal's recycled content and recyclability, to reducing a building's carbon emissions, metal offers far more than just beautiful aesthetics.

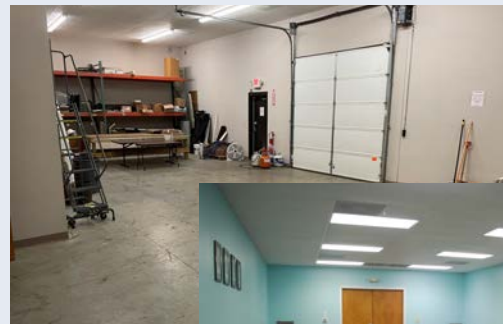
Lee Ann M. Slattery, CSI, CDT, LEED AP BD+C, is the sales support manager for [ATAS International Inc.](#), Allentown, Pa. She is also the treasurer of the Metal Construction Association (MCA), the former market development committee chair for the MCA, and serves on the education committee for National Women in Roofing (NWiR). In 2020, Slattery was elevated as a Fellow within the Construction Specifications Institute (CSI).

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Putting it All Together

Written by [Nick Warndorf](#) & [Harrison McCampbell, AIA](#), Published in Professional Roofing, June 2023

Selling a roof system is difficult, but selling a system many consumers are unfamiliar with, such as metal, can make the process even more challenging.

There are complexities surrounding a successful metal roof system installation, and contractors need to understand fabrication and installation, how to minimize costly mistakes, and understand the efficiency needed during installation to keep a project on track. Delivering a high-quality metal roof system requires a special kind of contractor, and contractors who do it right deserve recognition for their unique place in the trades.

What to watch for

Generally, there are a handful of common metal roof system applications you may encounter. Within those application categories are a variety of subcategories. The [NRCA Roofing Manual: Metal Panel and SPF Roof Systems—2020](#) is an excellent resource and is a welcome sight on any contractor's bookshelf. Figure 1 shows NRCA's designation of metal roof systems, which also happens to be in order of popularity based on our observations during the past several years.

However, the figure excludes the dreaded exposed-fastener metal roof "system." In Tennessee, as in many other states, this application method has migrated from what was once considered a low-end residential carport application to a common installation recommendation for residential dwellings.

This is a problem. Figure 2 lists design considerations that highlight why certain metal roof systems fail, such as exposed fastener applications. NRCA recommends "... the minimum slope of exposed-fastener metal panel roof assemblies be 4:12 because these systems are considered water-shedding and at an increased risk of water intrusion."

Exposed fasteners are installed through the horizontal plane of the metal panel, do not require interlocking raised ribs, are static in their placement and feature an ultraviolet-susceptible washer that can fail within three to five years. What's worse, when those washers begin to fail, repair options are further limited by shortsighted design conditions. Fasteners will most likely back out of the panels, leaving voids at virtually every penetration.

You will find an exposed-fastener metal panel roof system tends to be installed over shingles or some other type of roof system that has exceeded its useful life. Typically, there are 80 screws per roofing square (100 ft²), so if you have a 22-square roof, which is an average residential roof size with slope factored in, you would have 1,760 exposed penetrations as washers start to fail. It's a system with design considerations that are meant to increase short-term profits but not contribute to an owner's expected or perceived long-term useful roof system life expectancy.

An exposed-fastener system simply won't last and shouldn't be installed over occupied dwellings. Period.

Labor

Choosing the right type of metal roof system to install is only one challenge. Another is finding qualified labor.

Metal roof system installers are a rare breed in the industry. They often work on steep-slope roofs fully tied-off. The restraints generally are tension-based, so the sensation is akin to repelling. Reflective heat from metal panels can average 140 F to 160 F in warmer months, which

means blistering working temperatures. Rough metal edges require care as metal panels will slice through a worker's skin before he or she realizes it happened. Every piece of the installation requires meticulous placement and attention. One wrong measurement could throw off an entire system. Constant attention to detail is required by a seasoned foreman or superintendent overseeing the project.

Most companies that install metal roof systems have in-house training programs mainly because the options for sheet-metal fabrication and installation training are extremely limited. Therefore, an average installer typically will be only as good as the best metal employee on the payroll. It requires years of experience and hundreds of projects, big and small, before a metal roofing worker is considered worthy of running a crew let alone a department. NRCA ProCertification,® for example, requires a minimum of 36 months of roofing experience for an installer to be considered eligible for NRCA's Metal Panel Roof Systems Installer designation.

If a typical installer completes a metal roofing project every few weeks, that's roughly 10-20 projects per year. That would mean, by NRCA's standards, a certified Metal Panel Roof Systems Installer would need to have about 60 projects under his or her belt before being able to be recognized as a ProCertified® installer.

Standing seam	Flat lock
Double lock	Soldered
Single lock	Nonsoldered
Snap lock	
Snap-on cap	
Snap-on batten	
"T" panel	

Figure 1: Types of common metal roof systems

Solid structural support (framing)	<ul style="list-style-type: none">• Ensure the foundational materials will last as long as the roof system.
Substrate (deck)	<ul style="list-style-type: none">• Ensure metal panels, underlayment and fasteners will remain in contact with a solid surface, which should also make for a safer, easier installation.
Underlayment (high temperature)	<ul style="list-style-type: none">• Keep in mind this underlayment should be expected to act as a secondary protective, weatherproof layer that should ultimately self-seal around penetrations once heated and not be affected by elevated ambient roof temperatures just below the metal roof's surface.• Consider the use of a slip sheet of rosin paper as needed for flat-lock soldered applications.
Dynamic (concealed) fasteners	<ul style="list-style-type: none">• Keep in mind the need for and use of concealed fasteners such as clips, a key component, that will allow movement for thermal expansion of the system.
Double-interlocking system	<ul style="list-style-type: none">• Keep in mind this unique metal panel system is made with lap joints that are folded either with two folds at the ribs or interlocked and soldered. This is a type of redundancy built into a dynamic roof system.

Figure 2: Ideal design considerations



A concave, lead-coated, double-lock system on a student housing center



This industrial metal roof system failed multiple repair attempts. There was no deck or water-resistant barrier beneath the panels.



An example of a well-installed standing-seam double-lock system.



Example of damaged ribs on a metal panel; the waves in the ribs prevented a proper double lock.



An example of a failing lap within a T-panel roof system with exposed fastener lap.

Being a qualified installer is important when considering aesthetic expectations of metal details, if there are any, in construction drawings. Sometimes, construction documents only refer to the Sheet Metal and Air Conditioning Contractors' National Association manual without referring to any specific details. Additionally, many detail requirements or references are tucked away in the metal panel manufacturer's specifications. Whenever metal roofing is specified, it means field staff will be on the front lines to address any possible problem-solving issues that may arise during a project.

Coordination

In our experience, if a metal roof system fails after installation, finding any persistent leaks can be extremely difficult. It behooves a quality control observer to have prior experience with metal roof system installation standards, procedures and/or quality control.

A 2002 Interface article, "Metal Roofing and Schools: Quality Control," lists five common causes of metal roofing failures that remain applicable:

- Improper product or profile selection or improper design
- Improper waterproofing and installation details
- Lack of worker skill, training and experience
- Installation that is noncompliant with wind-uplift requirements, contract documents, and proper waterproofing methods and procedures
- Failure to provide quality control inspections, direction and oversight

Everything starts with design, and, unfortunately, there is a skills disparity from the drafting room to the field. If the design team doesn't coordinate with the installers during the design phase, critical details ultimately are missed. Congruently, if installers aren't trained to improvise and formally coordinate with the design team, critical details are missed resulting in costly damages and corrective measures. This has led to a rise in third-party consultation for quality assurance and control as well as an increase in construction litigation cases.

Putting the pieces together

Many of the topics we have discussed apply to more than metal roof systems. But metal roofing is a specialty arena within the roofing trade and should be treated as such.

In our experience, contractors should develop metal roof system projects in consultation with a licensed design professional. Architects or engineers can provide critical, fundamental and code-compliant design requirements as part of the construction documents.

In addition, design professionals may want to consider including specialty experts such as HVAC, masonry, roofing or waterproofing and/or building enclosure consultants.

Not every person on a construction or design team is equipped to review, observe and thoroughly document every piece of a building project's puzzle from conception to construction. That's why it takes a team, so choose your team wisely.

Harrison McCampbell, AIA, is owner of McCampbell & Associates, Brentwood, Tenn.,

Nick Warndorf, RRO, CIT, sJAS 107 Pilot, is owner of The Warndorf Group, Fairview, Tenn.

The Cost Difference Between Standard, Premium and Metallic PVDF Colors for Metal Roofing

Written by Kathi Miller, Architectural National Accounts, McElroy Metal

The paint used to coat metal roofing and siding panels, Kynar 500/Hylar 5000, has three basic components: pigment, which creates the color; solvent, which helps to dissolve the pigment; and binder or resin, which acts like the glue to hold everything together. Due to differences in both pigment cost and the amount of pigment required, most metal panel manufacturers segment their PVDF offering into three pricing tiers.

Standard PVDF Colors

The first and lowest priced group is often referred to as the standard colors. These colors represent the bulk of the metal roof and wall panel industry. Given the basic laws of economics (the more you buy, the cheaper it is), most people expect this color offering to be the least expensive. And they're right. But what many folks don't realize is that these colors require less pigment, so their lower cost actually reflects the fact that they are less expensive for paint manufacturers to produce.

While most of the colors in these groups fall in the white, beige or earth tone family, dark bronzes and blacks are also commonly included.

Premium PVDF Colors

While the standard colors work for most projects, there are times where something a little more spectacular is desired for the color of a metal roof or wall system. Often, the decision stems from the desire to match a corporate brand or perhaps a designer or owner wants all or part of a building to make a bigger statement. In those cases, premium colors are often considered.

While there are many variables in the equation, a good rule of thumb is to allow 8-10 percent additional cost for colors in the premium PVDF family. The additional cost stems from several factors.

First, the pigments used to produce these dramatic colors are more expensive than standard colors.

Second, premium colors typically require more pigment than standard colors, which also makes them more expensive. As a side note, some of the colors in this family also carry a reduced paint warranty due to the performance of the pigments used in this process. So, if the warranty length is important, always check with a reputable manufacturer during the color selection process.

It's also important to note that the 8-10 percent upcharge for the premium colors typically applies only to panels and doesn't apply to labor, trims and accessories. Consequently, the total cost increase to move from a standard to premium color is often less than expected. As an example, for a 20,000 square foot standing seam roof, the cost difference to go from standard to a premium color might be an additional \$3,000-\$5,000 total on the project. So, while it is a higher price, the cost difference is pretty negligible, especially

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if it's critical to the brand or building owner.

Colors in the premium family fall more into what you might call the exotics and include things like oranges, reds, vibrant blues and greens.

Metallic PVDF Colors

Moving the discussion onto metallics, it's important to note that we're referring to metallic colors. Metallic colors are completely different from an unpainted product like Galvalume or galvanized, which have an actual metallic coating.

When comparing standard, premium and metallic finishes, metallic PVDF colors are the most expensive and normally carry a 10-12 percent cost increase over the standard PVDF colors.

Like premium colors, some of the higher cost can be attributed to higher pigment cost. In some cases, the coating lines which apply the paint to the steel are also required to run at slower speeds for metallic paints, which can increase cost. It's also important to note that metallic finishes can be directional, meaning they must be installed in the same direction to prevent perceived shade differences. Consequently, installers are required to take more care in the layout and installation of materials, so installation costs are often higher for metallic coatings than they are for either standard or premium colors. And, while it may not impact cost, metallic colors tend to be "batch sensitive," meaning there may be slight differences between paint produced at different times. Using products from several different batches on the same project can create aesthetic issues and should be avoided whenever possible.

Colors in this family tend to be coppers, silvers, bronzes and champagnes.

Summary

Keep in mind that the cost increase percentages outlined here are simply for budget purposes. If you have color questions for an upcoming project or even want to chat more about the possibility of custom colors, contact us at www.mcelroymetal.com. We would love to help.

Kathi Miller handles Architectural National Accounts and training at McElroy Metal and has been with the company for 28 years.

Covered in Metal

NRCA publishes its first metal wall panel systems manual

Written by Maciek Rupar

NRCA's first manual addressing metal wall panel systems—The NRCA Metal Wall Panel Systems Manual—was published in June. The new manual applies NRCA's long-established best practice guidelines approach to the construction of metal wall panel systems and is NRCA's first effort to provide detailed information about this type of construction.

Because it's common for roofing contractors involved with metal panel roof system installations to also fabricate and install metal wall panel systems, I encourage you to become familiar with the new manual if you are involved with the installation, repair and/or maintenance of these systems.

Development

In 2018, NRCA established its Metal Wall Panel Systems Manual Task Force with an objective of developing a new technical best practices manual for the design, manufacture and installation of metal wall panel systems. The task force was composed of NRCA member metal wall panel contractors and manufacturers. During its three years of activity, no fewer than 10 task force members and subject matter experts from NRCA member companies participated in the manual's development.

The task force quickly defined the manual's scope and produced an outline to guide the manual's development to completion. Members worked to develop the manual during the three years that followed, meeting in person for the first 18 months and later meeting remotely when COVID-19 pandemic restrictions made in-person meetings difficult. NRCA held 18 task force meetings and conference calls, and NRCA staff conducted additional meetings and calls with task force members to work on individual assignments. The task force completed its objective in June 2021, and the manual was finalized in May 2022.



Manual structure

The NRCA Metal Wall Panel Systems Manual is structured as a reference manual. It consists of 11 chapters and four appendixes, a layout familiar to users of The NRCA Roofing Manual.

Chapter 1—Metal Wall Panel Assembly Configurations is intended as a guide for designers when specifying metal wall panel assemblies and developing project specifications. Metal wall panel assembly configurations are designated based on the moisture-control method used and include face-sealed, rainscreen and pressure-moderated rainscreen approaches. Each assembly configuration provides assembly drawings and a list of major systems and components with references to the manual chapters where each system and component is addressed in detail. The assembly drawings feature single-skin metal panels, route-and-return metal composite and aluminum plate panels, and insulated metal panels. The configurations represent a consensus opinion of professional metal wall panel contractors and manufacturers and are based on best industry practices.

Chapter 2—Rain Control is a concise review of rain penetration control strategies used in wall assembly design and test methods for evaluating rain control performance of wall assemblies.

Chapter 3—Wall Substrates addresses design consideration applicable to metal wall panel system substrates composed of plywood panels, structural concrete, masonry, structural steel, light-gauge framing and wood framing.

Chapter 4—Environmental Separation Layers provides information about the design of wall water-, air- and vapor-control layers that comprise metal wall panel assemblies along with thermal insulation and metal panel systems. Differing terminology used in the industry also is addressed. For example, some codes and standards use the terms “air barrier” and “vapor barrier” to refer to air- and vapor- control layers, respectively. NRCA uses the terms “air retarder” and “vapor retarder.”

Chapter 5—Wall Insulation deals with best practice guidelines for the design and materials used for the thermal-control layer in metal wall panel assemblies. Types of insulation materials commonly used in metal wall panel assemblies in North America addressed in this chapter include rigid cellular polystyrene, polyisocyanurate, spray polyurethane foam, stone wool and fiberglass. Information about energy conservation code requirements for wall assembly thermal insulation is found in Appendix 2—Energy Code Requirements for Wall Assembly Thermal Resistance.

Chapter 6—Panel Support Systems addresses secondary structural framing essential for installing and the performance of most metal wall panel assemblies. Panel support systems transfer wall cladding loads to the building structure; provide means of mounting cladding panels to wall substrates; provide for correct panel alignment; determine the depth of space behind cladding available for insulation, ventilation and drainage; and may include features that help reduce thermal bridging through walls.

Chapter 7—Guidelines Applicable to Metal contains design and material guidelines applicable to naturally weathering metals, such as copper and zinc, and metallic-coated metals used for wall cladding. This chapter was developed from the corresponding chapter of The NRCA Roofing Manual. It's notable significant revisions and updates developed by the Metal Wall Panel Systems Manual Task Force were incorporated as part of The NRCA Roofing

Manual: Architectural Metal Flashing and Condensation and Air Leakage Control—2022. The new and updated content includes information about metal alloys, sheet metal thickness tolerances, protective coatings, color-matching prefinished sheet metal, current guidelines for specifying metallic-coated steel and stainless steel and dealing with oil canning.

In Chapter 8—Wall Panels, separate sections provide information about single-skin, metal composite material, aluminum plate and insulated metal wall panels. Best practice guidelines regarding fabrication or manufacture, fire resistance and installation—among others—vary depending on wall panel system type.

Chapter 9—Fasteners addresses fasteners for securing metal wall panels and metal wall panel support systems as well as metal wall panel system insulation fasteners.

Chapter 10—Sealants provides information about elastomeric sealants and accessory materials used in metal panel cladding systems and best practice guidelines for those applications. This chapter was developed using information previously published in a Metal Construction Association technical bulletin.

Chapter 11—Construction Details provides drawings of 58 flashing conditions commonly encountered in metal wall panel systems. Detail drawings are separately designated for the following types of metal wall panel applications:

- Insulated metal wall panels (horizontal orientation)
- Rainscreen single-skin metal wall panels (vertical orientation)
- Rainscreen route-and-return (horizontal and vertical orientation) metal wall panels
- Face-sealed route-and-return metal wall panel joints

The new manual also includes four appendixes:

- Appendix 1—Metal Construction Association Metal Panel Fabrication and Installation Tolerances. This appendix includes best practices from MCA.
- Appendix 2—Energy Code Requirements for Wall Assembly Thermal Resistance. This appendix provides information about the International Energy Conservation Code® and National Energy Code of Canada for Buildings requirements for wall assembly thermal resistance.
- Appendix 3—Glossary has definitions of specific terms used in the manual.
- Appendix 4—History of Interim Updates is where a future summary of interim changes to the electronic version of the manual since its original publication will be located.

How to get it

NRCA members can download the PDF version of The NRCA Metal Wall Panel Systems Manual free by accessing shop.nrca.net. Print copies also are available for purchase.

NRCA intends to continue developing and updating The NRCA Metal Wall Panel Systems Manual following its established process of periodically reviewing, revising and updating technical content. If you would like to submit recommendations for revisions or additions to the manual, contact NRCA's Technical Services Section at (847) 299-9070, option 4, or nrcatechnical@nrca.net.

SAFETY TALKS

Roofer Prevents a Fall

It doesn't happen often that one of these weekly Safety Talks describes an incident in which someone was doing something correctly and was able to prevent a more serious injury, but that is exactly what this Safety Talk will do.

In this particular instance, an employee of a roofing company was climbing down an extension ladder when he either missed one of the ladder rungs completely, or his foot slipped off one of the ladder rungs. Because he was holding on to the rungs of the ladder (instead of the side rails) and was using three points of contact, he was able to catch himself and prevent a fall from the ladder. Although he sustained a strained back, the outcome would have been far worse if he had not been using the proper ladder-climbing technique and had fallen from the ladder to the ground below.

Let's be honest. Whenever we perform a certain task repeatedly without incident, it's easy to become complacent and lax about adhering to safe work practices. Climbing a ladder is likely one of those tasks for roofers and sheet metal workers. It's a good thing that the roofer who is the subject of this Safety Talk had not become complacent and was climbing the ladder properly.

To serve as a reminder, the following are keys to remember to climb extension ladders safely.

- When climbing any ladder, you must face it. Never turn out or away.
- Follow the "belt buckle rule" by keeping your body centered within the ladder's side rails.
- Maintain three points of contact. This means that you have 2 hands and 1 foot or 1 hand and 2 feet in contact with the ladder at all times. Remember that you can only do this if you move only one limb at a time. Doing this may take 30 seconds more for you to get up or down the ladder, but your life is worth it.
- Hold onto the rungs of the ladder as you climb up and down the ladder – not the ladder side rails.
- Keep your hands free to climb and carry only small objects in a tool kit on your belt. Don't try to carry any load that could cause you to lose your balance. Use hoists or chain falls to lift those items.
- Wait for the person who went up the ladder first to get all the way off at the top. Then you can climb. This applies when coming down the ladder, too.
- To maintain stability while on the ladder, don't pull, lean, stretch, or make sudden moves. These could all cause you to lose your balance.
- Be especially careful as you step onto and off ladders. To make sure you have the proper foothold at the top of the ladder, you should be able to fit your foot on the step.
- On straight or extension ladders, only climb up only to the fourth rung from the top.

DISCUSS WITH YOUR CREW

- Which of these keys to safe climbing do you sometimes find yourself violating?

SAFETY TALK ATTENDEES:

CHARLAS DE SEGURIDAD

Techador evita una caída

No sucede a menudo que una de estas charlas semanales de seguridad describa un incidente en el que alguien estaba haciendo algo correctamente y pudo prevenir una lesión más grave, pero eso es exactamente lo que hará esta charla de seguridad.

En este caso particular, un empleado de una empresa de techos estaba bajando por una escalera de extensión cuando perdió uno de los peldaños de la escalera por completo, o su pie se deslizó fuera de uno de los peldaños de la escalera. Debido a que se aferraba a los peldaños de la escalera (en lugar de los rieles laterales) y estaba usando tres puntos de contacto, pudo atraparse y evitar una caída de la escalera. Aunque sufrió una distensión en la espalda, el resultado habría sido mucho peor si no hubiera estado usando la técnica adecuada de subir escaleras y se hubiera caído de la escalera al suelo.

Seamos honestos. Cada vez que realizamos una determinada tarea repetidamente sin incidentes, es fácil volverse complaciente y laxo al adherirse a prácticas de trabajo seguras. Subir una escalera es probablemente una de esas tareas para techadores y trabajadores de chapa. Es bueno que el techador que es el tema de esta charla de seguridad no se haya vuelto complaciente y esté subiendo la escalera correctamente.

Para servir como recordatorio, las siguientes son claves para recordar subir escaleras de extensión de manera segura.

- Al subir cualquier escalera, debes enfrentarla. Nunca salgas o te vayas.
- Siga la "regla de la hebilla del cinturón" manteniendo su cuerpo centrado dentro de los rieles laterales de la escalera.
- Mantenga tres puntos de contacto. Esto significa que usted tiene 2 manos y 1 pie o 1 mano y 2 pies en contacto con la escalera en todo momento. Recuerde que solo puede hacer esto si mueve solo una extremidad a la vez. Hacer esto puede tomar 30 segundos más para que subas o bajes la escalera, pero tu vida vale la pena.
- Sosténgase de los peldaños de la escalera mientras sube y baja la escalera, no de los rieles laterales de la escalera.
- Mantenga las manos libres para escalar y lleve solo objetos pequeños en un kit de herramientas en su cinturón. No intente llevar ninguna carga que pueda hacer que pierda el equilibrio. Use polipastos o caídas de cadena para levantar esos artículos.
- Espere a que la persona que subió la escalera primero baje hasta la cima. Entonces puedes escalar. Esto también se aplica al bajar la escalera.
- Para mantener la estabilidad mientras está en la escalera, no tire, se incline, estire ni haga movimientos repentinos. Todo esto podría hacer que pierda el equilibrio.
- Tenga especial cuidado al subir y bajar de las escaleras. Para asegurarse de tener el punto de apoyo adecuado en la parte superior de la escalera, debe poder colocar el pie en el escalón.
- En escaleras rectas o de extensión, solo sube solo hasta el cuarto peldaño desde la parte superior.

DISCUTE CON TU TRIPULACIÓN

- ¿Cuál de estas claves para una escalada segura a veces te encuentras violando?

ASISTENTES DE LA CHARLA DE SEGURIDAD:
