

CAROLINAS CONTACTS

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GORDON M. WATERS DISTINGUISHED SERVICE AWARD

5th Annual Golf Tournament Reg Form /11
Annual Meeting Conference in Photos /12
Metal Roofing Comparisons Grid /14

JULY/AUGUST 2022



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Andy Abrams [2003-04]
Erik Hauck [2019-20]
Bubba Kears [2020-21]



Todd Smith [2017-18]



Hank Bonney [2008-09]



Ben R. Pickens, Jr. [1987]
Jim Pickens [2008]



Greg Jones [1998-99]



Rudy Barnes [1954-55]
Mike Wilkinson [1975-76]
Wes Wilkinson [2013-14]

**SKYLINE
ROOFING, INC.**

Wes Williamson [2014-15]

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CRSMCA STAFF MEMBERS

Executive Director, Carla B. Sims
Assistant, Karin Barahona

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.

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.

AFFILIATED WITH NATIONAL ROOFING CONTRACTORS ASSOCIATION, INC.



Hello Fellow Members,



Message from CRSMCA President, Bert Pickens

I hope everyone has had a good summer, seems like this one in particular went by in a blink of an eye!

I would like to take this opportunity to thank Carla and our staff at CRSMCA for putting together the 79th Annual Meeting/Summer Convention in Hilton Head. I hope everyone and their families had as much fun as me and my family had. Despite the challenges, the strains and aftermath caused by COVID on the hotel, restaurant, tourism industry, and yes, even the air conditioning problems... I thought from top to bottom it was about as flawless as it could have been given all the circumstances.

I look forward to working with the CRSMCA Executive committee this upcoming year and would like to introduce them to you:

1st Vice-President - Jason Tetterton, Curtis Construction Co., Inc.

2nd Vice-President - Bobbie Jo Deal, CityScape Roofing, Inc.

Secretary/Treasurer - Robert Hodges, R.K. Hydro-Vac, Inc.

Past President - Matt Williams, CityScape Roofing, Inc.

I also look forward to working with Chris Love and the rest of the Associate Group Board to navigate these unprecedented times in dealing with the supply chain issues and material problems that continue to get worse in our industry. I think McKay Daniels and Monroe Porter summed things up in fairly condense way at the annual meeting conference, *"the roofing industry is stressed to the max and these problems are here to stay for a long time"*. Hopefully, we can pull the members of CRSMCA together in a productive and efficient way to help all of us pull through these difficult supply chain issues and figure out solutions to the lack of available workers/employees that challenge our industry now more than ever.

The CRSMCA Board members are already looking forward to next year, switching gears and focus to a one show/one event Annual Meeting & Expo Convention — which in theory will combine the best features of our Winter Show and our Summer Conference into one event. We believe this will result in a better turnout for our organization.

CRSMCA's Annual Golf Tournament will be held on Thursday, October 13th at the Rocky River Golf Course in Concord, NC and we look forward to the Carolinas Mid-Winter Roofing Expo in Winston Salem, NC on January 17th-19th, 2023. Be looking for the CRSMCA emails and information on both of these upcoming events.

I look forward to serving on the CRSMCA Board and am honored to follow in the footsteps of the past presidents of CRSMCA that have served before me.

*Bert Pickens, Pickens Contracting, Inc.,
CRSMCA 2022-2023 President*

Looking for Training Space in the Charlotte Area?

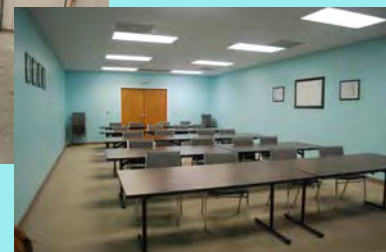
The CRSMCA headquarters features a conference room and a warehouse demonstration area...perfect for your next training event!

The conference room holds up to 40 people classroom style or set less for an employee or board meeting. The conference room hosts a screen for your projection needs and Wi-Fi.

The warehouse demonstration area is perfect for your set up of products and/or mock-up for the training event. The area is ventilated and can provide shelter in rain or cold weather.

Available for you is your CRSMCA support staff; available to accept shipments and assist with promotional exposure.

To reserve your space, contact the CRSMCA office at 704.556.1228 or cbsims@crsmca.org.



Greetings Fellow Members!

I hope everyone is surviving the heat this summer and doing everything you can to stay cool.

I'd like to start out by reiterating something I said at the CRSMCA Annual Meeting/Summer Convention in June... it is really an honor to be serving on the Associate's Board and giving back in any small way to this association that has given so much to us, it is the least we can do. One of the things that makes this association so special is you can serve alongside, customers, counterparts, competitors, all for the common good. Let me thank those serving with me on the Associate's Board:

1st Vice President - Darren McEvoy, Premier Building Products
2nd Vice President - Tara Burgei, Johns Manville
Secretary/Treasurer - Mark Cameron, Mid-States Asphalt
Past President - Sean Dougherty, OMG, Inc.

I think my biggest hope over the next year is working with Bert Pickens (CRSMCA President) and the rest of the Board to secure a plan for a future with a one-show a year. An Annual Meeting/Summer Convention that consists of all the best elements of our Carolinas Mid-Winter Roofing Expo. CRSMCA did a dry run in Hilton Head in June 2021 and I thought it went as well as could be expected. Unfortunately, CRSMCA did not have enough rooms set aside because of the COVID pandemic, but that will not be the case when we try again. This is something new and that can be a little nerve racking, but we will never know unless we try. *More details to come...*

Finally, I look forward to seeing everyone at the upcoming Golf Outing on Thursday, October 13th at the Rocky River Golf Course in Concord, NC and at the CRSMCA Carolinas Mid-Winter Expo in Winston Salem, NC January 17-19.

Best Wishes

Chris Love, Mule-Hide Products



Message from Associate Group President, Chris Love

Metal Roof Clips & Accessories

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ASSOCIATE GROUP EXECUTIVE MEMBERS

President, Chris Love, Mule-Hide Products, Inc.
1st Vice President, Darren McEvoy, Premier Building Products, Inc.
2nd Vice President, Tara Burgei, Johns Manville
Secretary/Treasurer, Mark Cameron, Mid-States Asphalt
Past President, Sean Dougherty, OMG, 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]
- 04 Andy Butler, Roofers Supply of Greenville [Charlotte, NC]
- 05 Justin Maycher, GAF Materials Corporation [Raleigh, NC]
- 05 Chad Bolt, ABC Supply Company, Inc. [Greenville, NC]
- 05 Todd Casey, Beacon Roofing Supply [Goldboro, NC]
- 06 Anna Read Maltos, Superior Distribution [Wilmington, NC]
- 07 Lee Wells, Beacon Roofing Supply [Myrtle Beach, SC]
- 08 Keith Whigham, Premier Building Products, Inc. [Columbia, SC]
- 09 Nathan Rollins, HB Fuller Construction Adhesives [Greer, SC]
- 10 David King, NBHandy Company [Charleston, SC]



**Message from Executive Director,
Carla B. Sims**

Stay connected with CRSMCA and your roofing industry peers through events hosted by CRSMCA!

The CRSMCA Board members and staff are continue to enhance education and networking opportunities through events. Be sure to stay connected by reading your weekly e-Newsletters in your inbox on Tuesdays and by visiting the CRSMCA website (www.crszca.org). If you have questions or need further discussions at any time, please contact the CRSMCA office or me directly!

Don't forget to about CRSMCA's 5th Annual Golf Tournament, Thursday, October 13, 2022 being held at the Rocky River Golf Club in Concord, North Carolina. Enjoy a day of fun with your peers on the golf course.

This is a great opportunity for the roofing industry to unite in a networking and fun environment; vendors can participate at a sponsored hole to interact with players and contractors can participate as players and have an opportunity to purchase Mulligan Packages as well as raffle tickets for prizes during the tournament. Registration is open on the CRSMCA website at <https://crsmca.org/meetinginfo.php?id=69&ts=1647452825>.



REGISTRATION IS OPEN... 2023 Carolinas Mid-Winter Roofing Expo, January 17-19 at the Benton Convention Center in Winston-Salem, NC.

Exhibitors will have the opportunity to display products and/or marketing materials for attendees to view as well as have the opportunity to provide a hands-on demonstration!

Contractors and Consultants will be able to attend educational sessions for CEUs, walk the trade-show floor to view products and marketing material and attend hands-on demonstrations at one low cost PER COMPANY!

[View the Conference Agenda online at the conference meetings page \[www.crszca.org\]](http://www.crszca.org).

I look forward to speaking with you soon and know that this will be a great opportunity for CRSMCA!

-Carla B. Sims, CRSMCA Executive Director

CRSMCA EXECUTIVE MEMBERS

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

CRSMCA BOARD OF DIRECTOR MEMBERS

- 01 Jimmy Hinnant, CityScape Roofing, Inc. [Claremont, NC]
- 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 Jimbo Spann, Spann Roofing & Sheet Metal [Conway, SC]
- 07 Kristina Zushma, Spann Roofing & Sheet Metal [Conway, SC]
- 08
- 09
- 10 Bryan Pribula, CL Burks Construction [Charleston, SC]

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?**



WHAT IS THE CRSMCA MASTER INSTALLERS CERTIFICATION PROGRAM?

The CRSMCA Roofing Academy Master Installer Certification Program is designed to promote safety issues and concerns in the application of the roof systems to prepare the employee for best practices in their job performance. It is intended for the use by anyone with an interest in these roof systems, from roofing workers to foremen to supervisors. It is a culmination of efforts by contractors, manufacturers, suppliers and others who are dedicated to promoting safety.

Enrolled students will learn and train the basics of roofing, increasing their knowledge and skills to make them more valuable to their respective companies, as well as build future leaders in the roofing industry.

HOW DO YOU GET INVOLVED?

The CRSMCA Roofing Academy Committee is always searching for instructors of the classroom material and the hands-on demonstration. View the class and hands-on courses on the CRSMCA website at www.crsmdca.org/master_installers. Should you wish to be an instructor, donate materials, and/or be a hands-on instructor; please contact Carla Sims at the CRSMCA office at 704.556.1228 or cbsims@crsmca.org.

CRSMCA MEMBER MEMORIAL NOTICES

Jody Gray Deal (husband of Bobbie Jo Deal, CityScape Roofing, Inc.), 54, of Statesville, passed away, Friday, June 17, 2022, surrounded by his family following a courageous battle with pancreatic cancer.

Jody was born November 26, 1967, in Iredell County to Mary Oliver Deal of Statesville and the late Ben Gray Deal. He was a graduate of West Iredell High School and Mitchell Community College. On November 6, 1993, he married Bobbie Jo Medlin Deal and together they had two beautiful daughters. For 22 years, Jody worked for U.S. Smokeless Tobacco and was currently employed for the past 9 years with Quality Oil Company as a Loyalty Program Coordinator. He served as a faithful member and Sunday School teacher for Mt. Nebo Baptist Church.

In addition to his mother and wife, Jody is survived by two daughters, Morgan Leigh Deal of Statesville, Madison Gray Deal and fiancé, Hunter Galliher of Statesville; one brother, Todd Oliver Deal (Lisa) of Troutman; mother-in-law, Diane Medlin; two brothers-in-law, Mark Medlin (Chris), Scott Medlin (Risa); nieces and nephews, Dylan, Rylee, Garrett, Dusty, Cody, Jacob, Katherine, Jessica; and beloved fur babies Ollie and Tucker.

Memorials may be made to Bob Patterson Scholarship Fund at ewpatterson@bellsouth.net or to Hospice and Palliative Care of Iredell County.

Online condolences may be made to the family at www.troutmanfuneralhome.com

Carol Lee Brazel (wife of Richard Brazel, TQM Roofing, Inc.), 71, entered the Gates of Heaven Friday evening, July 8th, 2022. Carol was born March 5th, 1951 in Mason, MI, to Bob and Bessie Purcell.

Those left to cherish her memory are her husband, Richard Brazel; brother, Tom (Ann) Purcell; three sister in laws, Becky (Jerry) Roberts, Rhonda (EJ) Atkinson, and Raeanne Brazel; as well as several nieces, nephews, great nieces, great nephews, and an uncle, Archie Wallace.

Carol was a graduate of Eaton High School and Ferris State College. On March 15th, 1975 she married Richard Brazel and together they shared 47 years of marriage. She worked at Harger CPA and Saint John's Lutheran Church as Financial Secretary. At Clarksbury United Methodist Church she was a Sunday School Teacher, Church Secretary, and held various other positions over the years. Carol loved to crochet and knit, and made many blankets and caps for newborn babies. Carol also enjoyed traveling and seeing new places.

Donations in Carol's name may be made to Clarksbury United Methodist Church, c/o Ann C. Cline at 2464 Old Mocksville Rd, Statesville, NC 28625.

Bunch-Johnson Funeral Home is proud to be serving the Brazel family.

James "Jim" Riley Morton (J.R. Morton Associates), 84, of Oakboro, North Carolina passed away on July 18th, 2022. Jim was born in Bluefield, West Virginia on September 23rd, 1937 to the late Calvin Luther Morton and Mary Lee Harwood Morton. Jim Morton's gusto for life will be sorely missed by his family and friends. His heart was big, his jokes funny, and his spirit open. Jim entered the industry selling built-up roofing for the Barret Division of Allied Chemical, but soon after went into business on his own. At the age of 27, Jim started J.R. Morton Associates, first manufacturing fiberboard cant strip and later selling a full line of roofing products, supplying materials for many major projects including the Epcot Center at Disney World.

He is survived by wife, Annette Morgan Morton, son, Mike Morton, daughter, Marla Brown, daughter-in-law, Darlene Morton, son-in-law Jim Brown, his four grandchildren, Jamie Morton, Brett Morton, Jacob Brown and Ava Brown, his brother C.L. Morton, and his sister, Betty Mabry.

Memorial Donations may be made to Mt. Zion, UMC.

Lawson Wescott Martin (Young Roofing Co., Inc.), Mr. Martin entered larger life 4 July 2022, at Duke Regional Hospital. A native of Durham, North Carolina he was born 20 September 1948, at the old Watts Hospital. He was the son of the late Ciblon Hoyle Martin and Mary Lawson Marlette Martin, and grandson of Carlos Ciblon Martin and Myrtle Azzie Byrd Martin of Durham and John William Marlette and Margaret Viola Durham Marlette of Alamance County, NC.

He was married to Miss Brenda Ruth Upchurch on 12 July 1980, at Temple Baptist Church. Mr. Martin has one son, Adam Upchurch Martin of Durham.

Two brothers survive, John Ciblon Martin (Rebecca) of Chandler, Arizona and Ralph Deryl Martin (Ava) of this city. Mr. Martin was predeceased by his brother Robert Leland Martin (Kathy) of Durham and Cousin Martin Carlyle Ficken (Debbie) of Greensboro. Surviving is niece Robin Lynn Martin Dillehay (Brian) of Rougemont and nephew John Michael White of Wake Forest.

Other surviving family are Cousins Carla Lucille Whitehurst Odom (Charles), Charlotte Martin Odom Lytle Perrin, (David), Catherine Lynne Odom Quick, (Douglas), Sara Martin Ficken, Laura Jenny Ficken, Katherine Lin Ficken Batuyios, (Michael), Robert Alexander Post Lytle, Christian Douglas Quick, Andrew Kenneth Lokie Quick, Charlotte Eloise Batuyios and Louis Michael Martin Batuyios.

The deceased was a graduate of Durham High School. He served in the United States Navy and was a veteran of the Vietnam War prior to returning to Durham and entering the family business. He was President of the Young Roofing Company for many years. He was a Scottish Rite 32nd degree Mason, in the Valley of Raleigh and endowed member of Durham Lodge #352, that was the lodge of his father and grandfather. He was also a life member of the Amran Shriners.

He was active in the Boy Scouts of America, former Scout Master of Troop 17 having received the Vigil Honor in October 2002 and Founders Award on 20 December 2008. Mr. Martin had been a member since 1960. The deceased was also a member of the Durham Lions Club. For many years he held a private pilot's license. He taught the North Carolina Hunters' Education Course from 1994.

Memorials may be directed to Lions Club of Durham and/or Masonic Lodge #352, with memo line, Home for Children, or Occoneechee Lodge #104, memo line, in memoriam L. W. Martin.

Mark Strickland (husband of Michelle Strickland, co-owner of AAR Roofing, Inc.). Mark and Michelle have been married for 21 years.

Mark passed peacefully in his sleep this past weekend. He had been a valued member of our AAR Family and will be greatly missed.



www.labor.nc.gov

Retaliatory Rights Q & A

By Harriet Hopkins, Administrator, Retaliatory Employment Discrimination Bureau

Q: I own a small business with eight employees. Days around major holidays are busy times of the year for us, as we are a retail establishment. I offer each employee five paid vacation days per year. I do not have a written policy, but I tell each employee when I hire them that the vacation days must be approved by me two weeks in advance. The reason for this is that I have to make sure we have sufficient coverage during our busiest times. I recently had an employee who asked me for two days off starting the next day after he asked. I told him no, that he was needed at work, and he didn't give me enough notice. He threatened to call the Wage and Hour Bureau if I didn't let him take the time and pay him for it. He also said he was going to take it anyway. I told him that I would consider that insubordination. Is it retaliation under the Retaliatory Employment Discrimination Act (REDA) for me to deny his request for vacation time off? Would it be retaliation if I fired him for taking the time off without permission?

A: No. You are not required to offer vacation days, paid or unpaid, and you are not required to acquiesce to an employee's request for particular days off. However, the better practice would be to put your policy in writing and ask employees to sign an acknowledgment that they have read and received a copy of it. Employment in North Carolina is "at will." If the employee took the time without permission, you would be within your rights to terminate them. However, if you terminate the employee because he threatened to call the Wage and Hour Bureau, that would potentially be retaliation under REDA.

Deadly Mistakes

By Judyth Forte, State Plan Coordinator

Fatal Event: On or about May 17, 2019, a 51-year-old man died after he fell 25 feet from the roof of a four-unit two story town house under construction.

Investigative Findings: The employee had been employed by the roofing company for only three days before he fell from the roof of the town house. The brick masons had finished bricking the walls up to the eaves of the town house, and the employee needed to shingle the top of the left side of the dormer to complete the roofing job. The employee had placed a 32-foot extension ladder that extended from the ground to above the first-floor roof onto the face of the bricked wall and to the side of the dormer. The employee had climbed the ladder and attached a two-inch by four-inch board on the top side of the roof of the dormer. The employee stepped off the ladder laterally onto the board. While applying the shingles, the employee fell approximately 25 feet to the hard dirt below. The employee was not using any type of fall protection once he stepped from the ladder onto the roof of the dormer. When the employer was asked why the employee was not using fall protection, he indicated that he had trained all his employees on fall protection and that the two-inch by four-inch board on the top side of the roof of the dormer was the fall protection.

Discussion: When other contractors on the site were asked if they had seen any of the roofers wearing fall protection, they said no. No fall protection was being used by the employee who fell or the other employees of the roofing company. It was found that no personal fall arrest systems, safety harnesses or any type of fall protection was onsite for the roofing company employees to use. The fact that the employer felt that using the two-inch by four-inch board by itself was a type of fall protection, indicated the employer was not competent enough in fall protection systems to provide adequate training or to ensure that adequate fall protection was being used.

The Occupational Safety and Health (OSHA) Construction Standard defines a competent person as someone who is: "capable of identifying existing and predictable hazards in the surroundings, or working conditions which are unsanitary, hazardous or dangerous to employees and who has authorization to take prompt corrective measures to eliminate them."

Therefore, if the employer said he provided training to his employees, it would not meet the standard of the regulation. A training program must be provided for each employee who might be exposed to fall hazards. The employer should have provided his employees with fall protection equipment that met the OSHA requirements because they were working more than 6 feet above a lower level (Construction Industry).

In addition, when the 32-foot ladder that had been used by the employee was inspected, it appeared to be damaged. It had visibly bent rungs. Portable ladders with structural defects, such as, but not limited to, broken or missing rungs, cleats or steps, broken or split rails, corroded components or other faulty or defective components, should either be immediately marked in a manner that readily identifies them as defective, tagged with "Do Not Use" or similar language and be withdrawn from service until repaired.

OSHA standards outline the employer's responsibilities for initiating and maintaining a safety program that provides for frequent and regular inspections of job sites, materials and equipment.

Recommendations: Proper training and use of fall protection can save lives. A large percentage of fatal falls occur when no fall protection systems are in place. Other falls occur when fall protection systems are used improperly.

- Fall protection systems are available that can provide roofers the flexibility they need during all types of roof work.
- The employer must research what system works best for their job situation, such as a guard rail system, safety net system or personal fall arrest system.
- The employer must provide fall protection to employees working at heights above 6 feet on construction sites.
- The employer must train employees on the specific fall protection systems and equipment that will be utilized on the job and must ensure employees are using systems and equipment appropriately while on the job site.
- Employers should be aware of the different types of fall protection technologies that are available and select what fall protection will be used on site. In terms of general falls, the piece of equipment posing the single greatest risk to worker safety is a misused or damaged ladder.
- Ladders need to be checked daily and must always be kept in good condition or removed from service.
- The setup and maintenance requirements for ladders, described in 29 CFR 1926.1053, must always be followed.

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_register/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

Upcoming Training Events:

- September 7 Electrical Safety - Construction Industry [web]
- September 9 Confined Space Entry - Construction Industry [web]
- September 21 Cranes & Derricks [web]
- September 22 Struck By/Caught Between [web]
- September 23 Silica in Construction [web]
- September 27 Material Handling - Construction Industry [web]
- September 28 Stairways & Ladders - Construction Industry [web]
- November 1-2 10-Hour Construction Industry Awareness Course [Hendersonville, NC]



NRCA

www.nrca.net

Roofing Alliance Announces 2022-2023 Melvin Kruger Endowed Scholarship Recipients

The Roofing Alliance has invested time and funds to help educate the roofing industry and the industry's youth. This has been made possible through the Melvin Kruger Endowed Scholarship Program, which was named for Melvin Kruger Endowed Scholarship Program, which was named for Melvin Kruger, a former president of NRCA, a former president of the Roofing Alliance and CEO of L.E. Schwartz & Son Inc., Macon, Ga. NRCA contractor and supplier members, their families and their employees are all eligible to partake in this program as long as they intend to pursue a career in the roofing or construction industries.

The Roofing Alliance approved eight new Roofing Alliance Melvin Kruger Endowed Scholarship Recipients:

- Theodore Barton, son of Simon Barton, branch manager, Crowther Roofing & Sheet Metal of FL. Inc.
- Davis Edwards, son of Van Edwards, COO, Mid-South Roof Systems
- Caylin Angel, daughter of Adam Angel, project manager, Kalkreuth Roofing & Sheet Metal
- Cole Beyer, son of Steve Beyer, inspection/roof management, Allweather Roof
- Cade Edwards, son of Van Edwards, COO, Mid-South Roof Systems
- Grace Wear, daughter of Ryan Wear, service manager, Kalkreuth Roofing & Sheet Metal
- Erich Langstine, son of Erich Langstine, engineering co-op, GAF
- Julia Shanahan, daughter of Christopher Shanahan, Business Development & Bid Manager, Ruff Roofer

In addition, the Roofing Alliance approved two renewals:

- Morgan Patterson - attending DePaul University, Chicago, Ill.
- Zackary Cekalla - attending University of Minnesota: Duluth

"A total of \$40,000 was awarded for new scholarships with an additional \$10,000 awarded for renewal scholarships," stated Alison LaValley, Roofing Alliance executive director. "Roofing Alliance leadership is very proud to be able to support the roofing industry with these scholarships. To date a total of 149 students have received \$1,010,000 in scholarship awards."

Details for the 2023-24 Melvin Kruger Endowed Scholarship program and the application guidelines will be available in mid-September. For more information on the Melvin Kruger Endowed Scholarship plus information about the Roofing Alliance contact Alison L. LaValley, CAE, executive director, at alavalley@nrca.net or visit roofingalliance.net.

Support NRCA's Political Action Committee, ROOFPAC

ROOFPAC is the only PAC dedicated to supporting the roofing industry in Washington, D.C. Help make your voice heard as we advocate for pro-growth economic policies, career and technical education programs, bipartisan immigration reform and more! NRCA members can make a personal contribution of any amount up to \$5,000 annually online or by mail, email or fax.

You also can show your support by joining a ROOFPAC club that offers benefits and recognition by visiting

nrca.net/advocacy/ROOFPAC or contact Teri Dorn, NRCA's director of political affairs at 202.510.0920 or tdorn@nrca.net.



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GIVE YOUR MVPS THE ULTIMATE SHOUTOUT!

20TH ANNUAL



MOST VALUABLE PLAYER AWARDS | 2022-2023

SUBMIT ENTRIES BY: **SEPT. 30**

roofingalliance.net/programs/mvp/

THURSDAY, October 13, 2022

ROCKY RIVER GOLF CLUB | CONCORD, NC

CAPTAIN'S CHOICE – TOURNAMENT PLAY BEGINS AT 11:15AM
EVENT INCLUDES TOURNAMENT, POKER RUN, AND AWARDS PROGRAM

DEADLINE TO REGISTER YOUR TEAM IS SEPTEMBER 1, 2022

REGISTER ONLINE AT WWW.CRSMCA.ORG or

COMPLETE THIS FORM AND RETURN TO CRSMCA

[accompanied by payment for processing or registration will not be processed until received]

PLAYER 1.

Name & Company *(if different from above)*

PLAYER 2.

Name & Company *(if different from above)*

PLAYER 3.

Name & Company *(if different from above)*

PLAYER 4.

Name & Company *(if different from above)*



EVENT AGENDA:

8:00am ASSIGNED! Sponsors Check-In
9:45am Team Check-In
10:45am Lunch provided
11:15am Tournament play begins
[Captain's Choice]
6pm Pickup Awards & Prizes

TEAM REGISTRATION - \$475.00

**registration includes player fee, green fees, golf-cart rental, lunch);*

ITEMS MUST BE PRE-PURCHASED

MULLIGAN'S PACKAGE: # _____ PKGS x \$10 = \$ _____

includes (1) mulligan, (1) tee-buster, and (5) raffle tickets for drawings

RAFFLE TICKETS: # _____ tickets \$ _____

\$2 each or \$10/6 tickets or \$20/15 tickets

TOTAL DUE: \$ _____

PAYMENT DETAILS:

Company Name

Contact Name

Credit Card No.

Exp Date

CVV Code

Name on Card

E-Mail for receipt and confirmation

PO Box 7643, Charlotte, NC 28241-7643 | 704.556.1228 | cbsims@crsmca.org

Proceeds benefit the CRSMCA Scholarship Fund, organized by CRSMCA members to donate to a member and/or family member to further their education. CRSMCA Scholarship Fund is a registered 501 (c)(3) non-profit organization. All donations are fully tax deductible to the extent allowable by law.

CRSMCA'S ANNUAL MEETING/SUMMER CONVENTION IN PHOTOS



"Networking with others in our industry and being able to get a broader perspective, including the roundtable panel was very relevant."



"The communication between contractors and associates at the roundtable setting was very informative."



"It was nice seeing others in the industry that support CRSMCA!"



"It seemed as if CRSMCA really cared about the associate members' input!"

"Getting with my peers to talk about how the industry is going between everyone and how it is effecting us made the most of my time at the event."



Introducing 2022 Gordon M. Waters Distinguished Service Recipient Ron Shafer, R.K. Hydro-Vac, Inc.

Ron Shafer has been an avid promoter of the roofing industry, growing in the roofing industry and as well as within your own company, he also shares these same desires with the CRSMCA. Ron has served as a District Director for CRSMCA as well as a Trustee for the Carolinas Roofing and Sheet Metal Contractors Self-Insurers Fund.

Ron is a high school graduate but did not like school and wanted to get out in the work force and make money as he didn't see the point in school for himself. Coming out of high school in the early 80's, he started working on the roof with a few close friends. Between him and his three good friends, they started their company in Ohio. He then moved to Charlotte to open an additional location, which was a pivotal point in his career and opening with his business partner. He was given the opportunity to open an office in the southeast region and ended up working and living in the Carolina's. Like most start-ups he and his business partner were responsible for everything. He was on a roof every week, managed payroll, handled maintenance on the vehicles, developed customer relationships and a hundred other things that were needed to start a business from scratch. What some people learned in school, he learned by trial and error.

All of his peers have been major influencers in his career because he is always open to new ideas, always open to listening and learning from others. His natural curiosity has allowed him to gain nuggets of wisdom from everyone he meets and is equally willing to share his knowledge with them.

Ron met his wife, Angie, in the early 80's, and they got married in 1984 and shortly thereafter moved to Charlotte. They had their daughter, Alex, in 1993 and stopped there... because she is their perfect child! Alex recently married her husband, Robert, recent welcomed their son, Fin, Pappy's most recent joy in his family!



Ron continues to serve as a role model to everyone around him, everyone he meets loves him immediately. He has a big heart and shows this in every aspect of his daily life. If you know him, you know he is always willing to go the extra mile and explain something to you and teach you every step. He has a gift that has been cultivated over the years in his ability to remember names, faces and events that occurred with people both inside and outside of work. This is truly realized at an event like the CRSMCA Annual Meeting, where he is known to everyone and always has a story to relate about people he has worked with, shared a drink with or laughed with. This has enabled him to build an unbelievable network. His ability to connect with people together for their mutual benefit is legendary. If you need something done, he has a guy!

History of Gordon M. Waters

Back in 1942 a group of Carolinas roofers and sheet metal workers gathered in Charlotte to reorganize CRSMCA. There was a nice-looking young fellow by the name of Gordon Waters, who was new to attending the Association. He was asked to act as temporary secretary and did his job nicely.

He looked good to the group and was elected as an officer and chosen to head the Association. Gordon made a good president and had the backing of the whole membership. The members elected him to represent the CRSMCA at the United Roofing Contractors Association Chicago Convention, where he was again elected to the Board of Directors of the national association, even though CRSMCA already had a Carolinian on the Board.

In the two years served 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.

Gordon lived in Rocky Mount, NC and headed up Water Brothers who started in business in 1921. Water Brothers installed roofing and sheet metal work but did not handle furnaces. In May 1946, they were approved to apply bonded roofs by Barrett and Johns Manville. Waters Brothers 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. Water Brothers had been approved for on-the-job training for veterans and were employing ten returned veterans that year. Gordon said veterans are good average employees.

Gordon was interested in improving his equipment, had put in a spot welder, and was also adding to his hoisting equipment, looking around and thinking of power shear and power rollers. It was a pleasure to associate with roofers like Gordon Waters.

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 became the first recipient of this award. For 54 years this honor has been passed down to deserving individuals.



Metal Roof Comparisons

Written by Marcy Marro, Editor, Metal Architecture\October 2020

Here is an overview of some of the most popular metal roofing options. Whether you are working on a commercial or residential project, there are many types of metal roofing options.

	STANDING SEAM PANELS	EXPOSED FASTENER PANELS	INSULATED METAL ROOF PANELS
DESCRIPTION	Standing seam panels are interlocking single-skin panels with concealed fasteners and raised seams. Panels are typically produced at custom lengths, with a variety of widths, seam heights and styles available. Standing seam metal panels come in two system types: structural (over open framing) and architectural (over closely fitted structural decks).	Also known as through-fastened metal roofing, exposed fastener panels usually have a corrugated rib or wave pattern with an overlapping side joint design and exposed fasteners. Many exposed fastener panels can be used for both roof and wall applications, while some can also be used as ceiling, liner, soffit or fascia panels.	Insulated metal panels are composite panels made with two sheets of aluminum or steel facers surrounding an insulating foam, such as polyurethane, to form a solid sandwich panel. Concealed fasteners offer a clean, uninterrupted aesthetic while virtually eliminating thermal breaks. Insulated metal panels are available in a variety of panel thicknesses and lengths.
DURABILITY	Standing seam panels create a strong continuous single skin over the roof's surface. A built-in allowance for expansion and contraction creates very durable systems with a long life expectancy. Additionally, most panels meet various UL classifications and ASTM standards for strength, wind uplift and cool roof energy efficiency.	Metal panels meet various UL classifications and ASTM standards for strength, wind uplift and energy efficiency.	Insulated metal panels provide stronger structural capacity than standard metal roof panels and require fewer structural steel supports due to greater wind-bearing capabilities.
END OF USE-RECYCLABILITY	Made with a high percentage of recycled material, panels are virtually 100% recyclable at the end of their useful lives.	Made with a high percentage of recycled material, panels are virtually 100% recyclable at the end of their useful lives.	Made with a high percentage of recycled material, panels are virtually 100% recyclable at the end of their useful lives and the foam insulation is recyclable..
WEATHERTIGHTNESS	Most standing seam panels are weathertight on roof pitches of 3:12 or greater. For lower pitches, sealant can be added to the seams. Mechanically seamed panels offer options appropriate to roof pitches as low as 1/4_12. Concealed fasteners provide a lasting watertight application, while hidden sliding clips allow for the natural expansion and contraction of the metal. Manufacturers may offer weathertightness warranties up to 25 years.	Made with a high percentage of recycled material, panels are virtually 100% recyclable at the end of their useful lives.	Made with a high percentage of recycled material, panels are virtually 100% recyclable at the end of their useful lives and the foam insulation is recyclable..
MAINTENANCE	With proper installation, standing seam panels are low to no maintenance. If cleaning is desired, panels can be washed with mild soap and water rinse. Applications in salt environments will benefit from an occasional clear water rinse. On some applications, any sealant-dependent flashings should be visually inspected periodically per manufacturer's recommendations.	With proper installation, exposed fastener panels are low to no maintenance. If cleaning is desired, panels can be washed with mild soap and water followed by a clean water rinse. Fasteners and washers should be checked periodically per manufacturer's recommendation for wear and tear.	Insulated metal panels are low to no maintenance. If cleaning is desired, panels can be washed with mild soap and water followed by a clean water rinse.
FORMIDABILITY	Standing seam panels are either manufactured in a factory or formed with job-site roll-forming equipment. Depending on the panel and seam style, some standing seam panels can be tapered or curved. Some manufacturers offer factory curving, while some panels can be curved on-site.	Exposed panels are either manufactured in a factory or formed with job-site roll-forming equipment.	Insulated metal are formed in a factory and shipped to the job site cut to required length.
SUSTAINABLE FEATURES	Standing seam metal roofing is energy efficient and can contribute to LEED certification. Many manufacturers offer Cool Roof colors that are Energy Star rated and have high SRI coefficients. Standing seam panels can easily integrate with both crystalline cell or thin-film photovoltaics. Additionally, many panels can be installed over existing roofing materials, leading to less debris.	Exposed fastener panels are energy efficient and can contribute to LEED certification. Many manufacturers offer Cool Roof colors that are Energy Star rated and have high SRI coefficients. Additionally, many panels can be installed over existing roofing materials, leading to less debris.	Insulated metal provide a thermally efficient building envelope with high R/U values and airtightness compared to traditional single-skin metal roofing systems. Additionally, many panels can be installed over existing roofing materials, leading to less debris.

To help you choose the right one for your project, Metal Architecture has put together a chart that highlights attributes of standing seam metal roof panels, exposed fastener metal panels, insulated metal roof panels, and metal shake, shingle and tile panels.

METAL SHINGLES	METAL SLATE PANELS	METAL TILES	METAL SHAKE PANELS
Metal shingles are interlocking modular panels that give the appearance of traditional architectural shingles without the ongoing maintenance and tear-off and replacement issues.	Metal slate panels are interlocking modular panels that offer the color and texture of slate roofing without the ongoing maintenance and tear-off and replacement issues.	Metal tiles are interlocking modular panels providing the look of clay tile without the ongoing maintenance and tear-off and replacement issues.	Interlocking modular panels are designed to mimic the look of hand-split cedar shake roofing without the ongoing maintenance and tear-off and replacement issues.
Most manufacturers offer a limited lifetime warranty. Many panels are made from Class A rated materials and have wind and hail penetration warranties.	Most manufacturers offer a limited lifetime warranty. Many panels are made from Class A rated materials and have wind and hail penetration warranties.	Most manufacturers offer a limited lifetime warranty. Many panels are made from Class A rated materials and have wind and hail penetration warranties.	Most manufacturers offer a limited lifetime warranty. Many panels are made from Class A rated materials and have wind and hail penetration warranties.
Made with a high percentage of recycled material, panels are virtually 100% recyclable at the end of their useful lives.	Made with a high percentage of recycled material, panels are virtually 100% recyclable at the end of their useful lives.	Made with a high percentage of recycled material, panels are virtually 100% recyclable at the end of their useful lives.	Made with a high percentage of recycled material, panels are virtually 100% recyclable at the end of their useful lives.
Metal shingles are interlocking panels that provide increased stability and resist wind uplift while forming a weathertight seal. The formed thickness of the panels creates an integral air gap between the metal and the roof deck, acting as a natural thermal break.	Interlocking panels provide increased stability and resist wind uplift while forming a weathertight seal. The formed thickness of the panels creates an integral air gap between the metal and the roof deck, acting as a natural thermal break.	Interlocking panels provide increased stability and resist wind uplift while forming a weathertight seal. The formed thickness of the panels creates an integral air gap between the metal and the roof deck, acting as a natural thermal break.	Interlocking panels provide increased stability and resist wind uplift while forming a weathertight seal. The formed thickness of the panels creates an integral air gap between the metal and the roof deck, acting as a natural thermal break.
Panels are low to no maintenance and will not rust, crack or rot. Most panels are resistant to streaks and staining and are freeze and thaw resistant.	Panels are low to no maintenance and will not rust, crack or rot. Most panels are resistant to streaks and staining and are freeze and thaw resistant.	Panels are low to no maintenance and will not rust, crack or rot. Most panels are resistant to streaks and staining and are freeze and thaw resistant.	Panels are low to no maintenance and will not rust, crack or rot. Most panels are resistant to streaks and staining and are freeze and thaw resistant.
Panels are factory made and packed into corrugated packaging for easy transit to job sites, even overlong distances.	Panels are factory made and packed into corrugated packaging for easy transit to job sites, even overlong distances.	Panels are factory made and packed into corrugated packaging for easy transit to job sites, even overlong distances.	Panels are factory made and packed into corrugated packaging for easy transit to job sites, even overlong distances.
Lightweight metal shingles are energy efficient with a high life expectancy. Many manufacturers offer Cool Roof colors that are Energy Star rated and have high SRI coefficients. Additionally, many panels can be installed over existing roofing materials, leading to less debris.	Lightweight metal shingles are energy efficient with a high life expectancy. Many manufacturers offer Cool Roof colors that are Energy Star rated and have high SRI coefficients. Additionally, many panels can be installed over existing roofing materials, leading to less debris.	Lightweight metal tiles are energy efficient with a high life expectancy. Many manufacturers offer Cool Roof colors that are Energy Star rated and have high SRI coefficients. Additionally, many panels can be installed over existing roofing materials, leading to less debris.	Lightweight metal shake panels are energy efficient with a high life expectancy. Many manufacturers offer Cool Roof colors that are Energy Star rated and have high SRI coefficients. Additionally, many panels can be installed over existing roofing materials, leading to less debris.

	STANDING SEAM PANELS	EXPOSED FASTENER PANELS	INSULATED METAL ROOF PANELS
TYPES OF APPLICATION	Standing seam panels can be used for most applications including residential, commercial, industrial, educational and agricultural. Some panels are also suitable architectural accents such as mansards and fascia systems.	Predominantly used in agricultural and post-frame project, exposed fastener panels can also be used for industrial, commercial and residential projects.	Insulated metal panels can be used for roof or wall applications in a variety of architectural, institutional, commercial and industrial projects.
INSTALLATION COSTS	Installation costs vary by the complexity of the project in addition to region, product type, material and installing contractor.	Usually less expensive to install than standing seam panels, installation costs vary by the complexity of the project in addition to region, product type, material and installing contractor.	Insulated metal panels with their interlocking fastening systems are generally less expensive to install than multiple material installations.
EASE OF INSTALLATION	Manufacturer's specifications should be followed for installing standing seam metal panels. Special care must be taken to ensure the panels are installed over a flat substrate. Many standing seam panels can be cut and installed using conventional hand or power tools. Structural panels are often installed over open framing and architectural panels are typically installed over 5/8 in or 3/4 in plywood decking and an underlayment. Clip spacing is dependent on product, on-center distance and material, as well as local building codes and conditions. Additionally, standing seam panels can usually be installed over an existing roof.	Exposed fastener panels install easily and quickly in most cases. Depending on the panel gauge and design, they can be installed over battens, sub-purlins or a solid roof deck. They are installed using screws that penetrate the panels and leave the screw heads exposed. Screws typically have sealing gaskets/washers. However, problems can occur if fasteners are stripped down during installation.	Insulated metal roof panels generally install faster and more efficiently than traditional multicomponent assemblies. Panels are applied directly over steel purlins, eliminating the need for an underlayment.
TRAINING ISSUES	Some panels manufacturers offer contractor training. Most manufacturers offer written installation guidelines, which may include drawings, explanations and notes on the seaming process.	Some panels manufacturers offer contractor training. Most manufacturers offer written installation guidelines, which may include drawings, explanations and notes on the fastening process.	Some panels manufacturers offer contractor training. Most manufacturers offer written installation guidelines, which may include drawings, explanations and notes on the installation process.
SHIPPING AND STORAGE	Factory-formed standing seam metal panels are shipped via trucks. Delivery time and price varies per project and manufacturer. Panels should be unloaded, stored and erected in a manner to prevent unintentional bending, warping, twisting and surface damage. Stack panels on platforms or pallets covered with suitable weathertight and ventilated covering. Store panels to ensure dryness. Panels should not be stored in contact with other materials that cause staining, denting or other surface damage. Protect strippable protective coating on any metal product from exposure to sunlight and high humidity, except to the extent necessary for material installation.	Exposed fastener panels nest, making them easier to ship. Shipping is usually done via trucks, and delivery time and price varies per project and manufacturer. Panels should be unloaded, stored and erected in a manner to prevent unintentional bending, warping, twisting and surface damage. Stack panels on platforms or pallets covered with suitable weathertight and ventilated covering. Store panels to ensure dryness. Panels should not be stored in contact with other materials that cause staining, denting or other surface damage. Protect strippable protective coating on any metal product from exposure to sunlight and high humidity, except to the extent necessary for material installation.	Shipped via trucks. Delivery time and price varies per project and manufacturer. Panels stored for an extended period of time should be tarped to remain dry and clean. Strippable films must avoid direct sunlight.
FINISHES AND COLORS	Galvanized and Galvalume standing seam panels come in a variety of colors and finishes. Some manufacturers offer copper, stainless steel, zinc, bronze or titanium options. Many manufacturers offer a variety of Kynar 500/Hylar 5000 colors. Many available paint colors are EnergyStar listed and may contribute to LEED certifications. Different paint systems offer varying warranties, but generally cover excessive fading, cracking and chalking.	Exposed fastener panels are available in a variety of gauges, materials and profiles. Some manufacturers offer copper, stainless steel, zinc, bronze or titanium options. Many manufacturers offer a variety of Kynar 500/Hylar 5000 colors. Many available paint colors are EnergyStar listed and may contribute to LEED certifications. Different paint systems offer varying warranties, but generally cover excessive fading, cracking and chalking.	Insulated metal roof panels come in a variety of profiles, colors and finishes. Many manufacturers offer a variety of Kynar 500/Hylar 5000 colors. Many available paint colors are EnergyStar listed and may contribute to LEED certifications.
OVERALL APPEARANCE	Standing seam panels offer the look of traditional vertical seam metal roofing. They create clean roof lines with minimum shadows and textures, and provide a smooth transition from roof to mansard.	Exposed fastener panels offer the look similar to that of standing seam panels, with vertical lines. Fasteners can be factory painted to the match the panels.	Insulated metal roof panels offer the look, reliability and high performance of traditional metal roofing with the benefits of a single component insulated system.

Contributors: Ken Buchinger [MBCI, Houston]; Rob Heselbarth [Director of Communications, Petersen Aluminium Corp]; Brad Emch [Sales Manager, Zappone Manufacturing, LLC]; Joe Tripod [VP of Client Relations, Englert, Inc.]; Trevor Underwood [Marketing-Americas, DECRA Roofing Systems, inc.]; Todd E. Miller [President, Isaiah Industries]; Ken Gieseke [VP of Marketing, McElroy Metal]; Andy Williams [Director of Codes & Standards, Metal Construction Association]; Bob Zabock [Technical Director of Metal Construction Association]

METAL SHINGLES	METAL SLATE PANELS	METAL TILES	METAL SHAKE PANELS
Typically used in residential applications, metal shingles have also been used in commercial and other applications.	Typically used in residential applications, metal slate panels have also been used in commercial and other applications.	Typically used in residential applications, metal tiles have also been used in commercial and other applications.	Typically used in residential applications, metal shake panels have also been used in commercial and other applications.
Installation costs vary by the complexity of the project in addition to region, product type, material and installing contractor.	Installation costs vary by the complexity of the project in addition to region, product type, material and installing contractor.	Installation costs vary by the complexity of the project in addition to region, product type, material and installing contractor.	Installation costs vary by the complexity of the project in addition to region, product type, material and installing contractor.
Panelized roofing system allows installation to take a fraction of the time required for traditional roofing. Panels are installed horizontally from eave to ridge and secured to the deck with fasteners. Roofs usually install from the bottom up. A starter strip is installed on the eaves, valley pans and gable channels are put in place, and the roof is installed. Hips, ridges and protrusions through the roof including sidewalls are installed as the roof installation progresses.	Panelized roofing system allows installation to take a fraction of the time required for traditional roofing. Panels are installed horizontally from eave to ridge and secured to the deck with fasteners. Roofs usually install from the bottom up. A starter strip is installed on the eaves, valley pans and gable channels are put in place, and the roof is installed. Hips, ridges and protrusions through the roof including sidewalls are installed as the roof installation progresses.	Panelized roofing system allows installation to take a fraction of the time required for traditional roofing. Panels are installed horizontally from eave to ridge and secured to the deck with fasteners. Roofs usually install from the bottom up. A starter strip is installed on the eaves, valley pans and gable channels are put in place, and the roof is installed. Hips, ridges and protrusions through the roof including sidewalls are installed as the roof installation progresses.	Panelized roofing system allows installation to take a fraction of the time required for traditional roofing. Panels are installed horizontally from eave to ridge and secured to the deck with fasteners. Roofs usually install from the bottom up. A starter strip is installed on the eaves, valley pans and gable channels are put in place, and the roof is installed. Hips, ridges and protrusions through the roof including sidewalls are installed as the roof installation progresses.
Most installers with either metal roofing experience/siding experience will adapt quickly, with training, to metal shingles. Most manufacturers have training programs as well as phone support available.	Most installers with either metal roofing experience/siding experience will adapt quickly, with training, to metal shingles. Most manufacturers have training programs as well as phone support available.	Most installers with either metal roofing experience/siding experience will adapt quickly, with training, to metal shingles. Most manufacturers have training programs as well as phone support available.	Most installers with either metal roofing experience/siding experience will adapt quickly, with training, to metal shingles. Most manufacturers have training programs as well as phone support available.
Modular in nature, metal shingles can usually be shipped long distances. Long-term storage should be in a protected area, but short-term storage can be on the job site. Steel products should be protected from trapped moisture during storage.	Modular in nature, metal shingles can usually be shipped long distances. Long-term storage should be in a protected area, but short-term storage can be on the job site. Steel products should be protected from trapped moisture during storage.	Modular in nature, metal shingles can usually be shipped long distances. Long-term storage should be in a protected area, but short-term storage can be on the job site. Steel products should be protected from trapped moisture during storage.	Modular in nature, metal shingles can usually be shipped long distances. Long-term storage should be in a protected area, but short-term storage can be on the job site. Steel products should be protected from trapped moisture during storage.
Metal shingles are commonly available in Galvalume, aluminum and copper. Many manufacturers offer a variety of Kynar 500/Hylar 5000 colors. Many available paint colors are EnergyStar listed and may contribute to LEED certifications. Available colors can help reproduce the look of traditional shingles. Additionally, some manufacturers may offer profiles in stone-coated applications.	Metal slate panels are commonly available in Galvalume, aluminum and copper. Many manufacturers offer a variety of Kynar 500/Hylar 5000 colors. Many available paint colors are EnergyStar listed and may contribute to LEED certifications. Available colors can help reproduce the look of traditional shingles. Additionally, some manufacturers may offer profiles in stone-coated applications.	Metal tiles are commonly available in Galvalume, aluminum and copper. Many manufacturers offer a variety of Kynar 500/Hylar 5000 colors. Many available paint colors are EnergyStar listed and may contribute to LEED certifications. Available colors can help reproduce the look of traditional shingles. Additionally, some manufacturers may offer profiles in stone-coated applications.	Metal shake panels are commonly available in Galvalume, aluminum and copper. Many manufacturers offer a variety of Kynar 500/Hylar 5000 colors. Many available paint colors are EnergyStar listed and may contribute to LEED certifications. Available colors can help reproduce the look of traditional shingles. Additionally, some manufacturers may offer profiles in stone-coated applications.
Metal shingles provide the appearance of traditional shingle roofing with the advantages and performance of metal.	Metal slate panels provide the appearance of traditional shingle roofing with the advantages and performance of metal.	Metal tiles provide the appearance of traditional shingle roofing with the advantages and performance of metal.	Metal shake panels provide the appearance of traditional shingle roofing with the advantages and performance of metal.

The Cost Difference Between Standard PVDF Color, Premium PVDF Color and Metallic Colors

Written by Kathi Miller, Architectural National Accounts, McElroy Metal\MidWest Roofer April 2021

The paint used to coat metal roofing and siding panels 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 (Kynar 500/Hynar 5000) 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 is actually reflective of 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 (Kynar 500/Hylar 5000) 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% 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 their standard color counterparts.

Secondly, premium colors typically require more pigment (and less filler) 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% 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 cost an additional \$3,000 to \$5,000 total on the project. So, while it is a higher price, the cost difference is pretty negligible, especially if it's critical to the brand or building owner.

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

Metallic PVDF (Kynar/Hylar 5000) 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% 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 that 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 outlines here are simply for budget purposes. If you have color or budget questions for an upcoming project or even want to chat more about the possibility of custom colors, contact McElroy Metal. We would love to help. More information can be found at www.mcelroymetal.com.

The graphic features the AssuredPartners logo at the top left, with a stylized 'A' icon. The main headline reads "Solutions - Not Just Insurance!". Below this, five circular icons are arranged in two rows, each with a corresponding label: a house icon for "Personal Insurance", a heart with a pulse line for "Employee Benefits", a building icon for "Commercial Insurance", a bar chart with an upward arrow for "Surety", and a shield icon for "Risk Management". The background of the graphic shows a group of people in business attire shaking hands. At the bottom, a dark blue banner contains the contact information for Cindy Shumpert and the CRSMCA logo.

AssuredPartners

Solutions - Not Just Insurance!

Personal Insurance Employee Benefits Commercial Insurance

Surety Risk Management

Cindy Shumpert
P 803.732.6331
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Understanding proper steel roof deck attachment

Written by Mark S. Graham, NRCA Professional Roofing publication, July 2020

Proper attachment of a steel roof deck to a building's underlying structural framing is an important consideration for proper roof assembly design. Unfortunately, there appears to be a lack of clear guidance between steel roof deck installers and the roofing industry regarding proper steel roof deck attachment.

Existing Guidelines

The Steel Deck Institute and FM Global provide two generally recognized but somewhat different approaches to steel roof deck attachment.

ANSI/SDI RD-2010, "Standard for Steel Roof Deck," is a code-recognized standard for the materials, design and erection of steel roof deck panels. This document specifies connections be designed in accordance with the American Iron and Steel Institute's specification AISI S100, "North American Specification for the Design of Cold-Formed Steel Structural Members."

ANSI/SDI RD-2010 requires steel roof decks be designed to resist required net uplift forces but not less than 45 pounds per square foot at eave overhangs and 30 psf for all other roof areas.

ANSI/SDI RD-2010's guidance does not specifically address increased design wind loads at roof area perimeters and corners or nonuniform uplift loading conditions, such as those created with seam-fastened mechanically attached single-ply membrane roof systems. SDI's design guidelines are based on uniform loading, such as those provided by an adhered membrane roof system.

FM Global's Loss Prevention Data Sheet 1-29, "Roof Deck Securement and Above-Deck Roof Components," issued February 2020, provides guidelines for steel roof deck attachment for FM-insured buildings. FM 1-29's Section 2.2.3.4 indicates one of two approaches—a performance-based approach or a prescriptive enhancement approach—can be used.

Using FM 1-29's performance-based approach, a specific RoofNav assembly should be selected based on the higher wind-resistance classification needed for Zone 2 (perimeter) and Zone 3 (corners). Individual RoofNav assemblies for roof systems on steel roof decks have RoofNav number-specific guidance for steel roof decks and roof deck attachment.

FM 1-29's prescriptive enhancement approach provides for the specific RoofNav assembly to be based on the wind-resistance classification needed for Zone 1 (field) and enhancing steel roof deck securement for the perimeter and corners as follows:

- Zone 2: Increase the roof deck attachment by a minimum of 50% (1.5 times) greater than that required by the RoofNav assembly in Zone 1.
- Zone 3: Increase the roof deck attachment by a minimum of 100% (2 times) greater than that required by the RoofNav assembly in Zone 1.

In many instances, because of steel deck flange, rib and flute spacing, it is impractical to increase Zone 2 attachment 50%. In these situations, increasing Zone 2 and Zone 3 attachment by a minimum of two times greater than that required for Zone 1 is appropriate.

FM 1-29's Tables 2 and 3 provide several attachment options for 6- and 8-inch-wide rib spacing for steel decks, respectively. For example, if the RoofNav listing requires FM-approved deck fasteners at a 12-inch spacing for Zone 1, FM-approved deck fasteners at a 6-inch

spacing with minimum 1/2-inch-diameter integral washers or 3/4-inch diameter washers are permitted for Zone 2 and Zone 3 attachment.

Closing Thoughts

Field experience shows many steel roof decks encountered in new construction and reroofing situations may not be attached according to SDI or FM guidelines. As a result, the wind-uplift resistances of these roof assemblies could be a concern.

Steel roof deck and roof system installers need better guidance from designers regarding the type and spacing of steel roof deck attachment and any perimeter and corner enhancements for specific buildings. This is not a decision that should be left to steel deck installers or roofing contractors.

In new construction situations, this determination is best made by the building designer in consultation with the building's structural engineer. In reroofing situations, roof system designers should evaluate the existing steel roof deck attachment and clearly specify whether any specific type and spacing of supplemental steel roof deck attachment is necessary. In many instances, supplemental deck attachment likely will be necessary because design wind loads have increased and the methods of addressing roof area perimeters and corners have changed with recent editions of the codes.

If, in a reroofing situation, the designer cannot properly assess the adequacy of an existing steel roof deck's attachment, supplemental attachment methods should be specified and can be implemented as needed on a unit-cost basis.

In reroofing situations on occupied buildings, NRCA prefers designers specify mechanical fasteners rather than power-actuated fasteners or spot welding for any required supplemental attachment. For occupant safety, NRCA suggests spot-weld attachment and power-actuated fasteners be avoided on occupied buildings.

Additional information about steel roof deck and roof deck attachment is provided in Chapter 2—Roof Decks of *The NRCA Roofing Manual: Membrane Roof Systems—2019*.

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Metal Maintenance

Educate your customers on the do's and don'ts of cleaning a metal roof

Written by Tracy Schubert, Metal Roofing August/September 2021

Metal roofs are in a class all their own when it comes to cleaning—easy in principal but also very specific in care requirements. After you've installed a metal roof for a customer, your job doesn't stop there—now it is time to educate them on proper metal roofing maintenance. The first step in metal roof cleaning requires little more thought than just using water to remove any airborne dirt, leaves, pollen, and twigs. However, mold, mildew, and spore deposits, along with stains caused by environmental chemical reactions (such as acid rain and other pollutants), require a different, more involved approach. Begin with the basics and take it from there as needed.

When it comes to cleaning a metal roof, there is a much shorter list of do's than don'ts. Of utmost importance is making sure that any paint, panel, and metal warranties are not voided; the same goes for any existing warranties on clips, coated fasteners, specialized tapes, and other accessories. It is important to know and consider all of the individual elements of the roof that may have attached warranty conditions. Anyone who invests in the installation of a metal roof wants it to look good. It is a long-term relationship with one's home that requires maintenance to successfully go the distance. In the case of a metal roof, that is more often than not a decades-long endeavor.

Owners who want to maintain the resale boost they may get from their well-cared-for roof will want to keep its value intact in both function and beauty. There is no doubt that a properly completed annual cleaning will help protect the investment for both reasons.

Where to Begin

1. Assess, Assess, Assess: Walk around the home and observe the roof. Look for debris, discolorations, and potential surface damage visible to the naked eye from the ground. Look at it from the road as well as from the yard. Make notes about what you find in terms of debris and weather damage.

2. Determine: Is this cleaning something that the homeowner wants to begin to address or is it straight-out time to hire an experienced metal roof cleaner to take on the task?

3. Research: Whether doing work as a homeowner or hiring someone to clean the roof, it is important to understand what the manufacturer recommendations are for cleaning the various roof elements. It will help the roof owner know how to clean the roof, if that is the chosen path. It will also enable the communication required to maintain warranties and guide clear contracting with someone else who is cleaning the roof.

4. Put It in Writing: If the roof owner is having an experienced metal roof cleaner take on the cleaning, they should have an agreement of the process to be followed including the cleaners to be used and tools utilized to do the job—in writing. What setup and cleanup is needed on the job should be understood. It also needs to be defined who is responsible for any unforeseen damage to the roof or property.

For example, if the ladder breaks and dislodges a gutter or puts dents into the metal roof, who pays to fix it? If a ladder used kills landscape plants or causes breakage to nearby shrubbery, who is responsible for the associated costs of replacing them? If roof runoff from the chemicals used harms plants or shrubs on the ground, who is responsible for the costs and remedy of their replacement? Who is responsible for protecting any plants or shrubs before any chemical cleaners are applied? Where can ladders be placed?

Lastly, make sure the cleaner is insured and ask for references. Discuss when the cleaning will be done and when and how payment is expected.

5. Take on the Task: If a metal roof owner is going to tackle the cleaning themselves, the following do's are some safe ways to start the process. Always stop and reevaluate as needed during the process. You may find it necessary to hire a professional cleaner as the cleaning unfolds, especially if you encounter stubborn areas. If a professional is hired, make sure to take both before and after pictures of what is being cleaned on the roof so there are no questions about the task at hand.



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The Do's

Items that are safe to wash with:

- Nonabrasive sponge (not foam)
- Soft washcloth
- Soft bristle brush

In the case of metal, less is more and lucky roof owners may find the roofs can be successfully cleaned with water. It doesn't get more environmentally friendly than that! Wait for an overcast day and start as far up toward the top as you can safely reach. Spray the roof with a hose and let the water runoff help do the job as it continually moves down the roof.

Still have some issues? Move to the use of mild laundry detergent or car washing soap. A gentle solution may be made by combining ¼ cup of detergent per gallon of water and using a soft sponge or washcloth to apply the solution. It may be left to sit for 5 to 10 minutes and then rinsed off. This simple step might be enough to do the job, but can be done more than once if needed. If you are able to get close to the roof, look for evidence of chalking, a white powdery deterioration on the surface of the paint. Sometimes it is visible to the eye, other times it may have to be recognized by contact. A coating of the film may rub off on your finger when it is swiped across the surface of the roof panel.

Chalking may be caused by pollution, and that type of deterioration may not be included in warranty protections.

Still not enough? Check with the manufacturer for the paint/coating type to ensure that any approach taken is safe for both the metal roof installed and the person doing the application, since many solvents are flammable. Additional cleanings for the removal of algae, mildew, mold, and rust may also be researched.

Test any cleaning ideas you have on the non-facing side of the home in a harder-to-notice area. Give things a little time to settle before moving forward with a larger area. Impacts of heat, direct sun, and water should be observed.

Put Safety First

Going above ground level? Safety is for sure something roof cleaners do not want to skip on. Getting a view of the roof, climbing up on the roof, walking around, and performing work at various places around the roof all have different requirements, but one thing they all have in common is the need for one other person to be present while these actions are taken.

- Wear well-fitting shoes with high-traction soles. Keep in mind that wet roofs can become slippery roofs.
- Wear proper clothing and eye protection in case of splashing.
- Make sure you have an OSHA-approved ladder with padded stabilizers.
- When working atop a roof, it is important to use fall protection gear such as a harness and other safety systems.
- Be aware of fumes from the cleaning products being used.
- Choose a cloudy day to avoid reflectivity glare and heat that could cause contact burns when on the roof.
- Plan to clean in manageable sections so soap may be rinsed off before it bakes onto the metal.

ladder and spray what you are able to?

Hands-on experience with cleaners and safety are good reasons to hire a professional who already owns all the gear and equipment needed and is very aware of all the ways they have had to use it.

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The Don'ts

Don't void roof warranties for the metal or the paint by using abrasives and chemicals such as:

- Acetone
- Acids
- Brass and other wire brushes
- Cleaning powders and pastes
- High-pressure power washers
- Paint removers
- Paint thinners
- Sandpaper of any grit
- Steel wool

Touch-Ups

Touching up a roof's paint without following a manufacturer's recommendation could not only make a blemish or blemishes look worse, it can actually void the entire roof warranty. Make sure a small imperfection does not turn into a big misstep.

Making Metal Roof Cleaning Easier

Allowing a roofing system to function well will make the annual cleanup easy. Things can be done to help protect a roof from wear and tear, such as keeping the gutters clear and trimming back branches that overhang the roof. The longer the timespan between cleanings, the more buildup there will be, making it harder to clean. Observe the amount of dirt and debris on a seasonal basis to determine the individual challenges facing the roof.

Today's metal roofing is a beautiful statement part of a home. For many homeowners, a properly installed metal roof is considered a long-term investment. Because of that, there is a lot of great information available from manufacturers and paint companies about how to maintain them for years to come. Identifying what best protects and preserves a metal roof is a win for all involved in the process. Knowing what to ask for when having work done by others on a roof is a very important part of successful ownership.

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SAFETY TALKS



Preventing Machinery Entanglement Injuries

A few years ago, a sheet metal crew was performing work at a manufacturing plant which required that specific personal protective equipment (including gloves) be worn at all times. Jim was a metal finisher and was on that crew. Shortly after arriving on the jobsite one morning Jim put on the required personal protective equipment and began drilling holes in the casting of a machine. However, the thumb of the glove on his left hand snagged on the rotating drill bit and pulled his thumb into the drill. Incidents like this are often called entanglement incidents because they are caused by a loose article of clothing, jewelry, long hair, or even personal protective equipment getting entangled in rotating equipment and pulling the worker into the equipment. Unfortunately, entanglement incidents can cause serious injury or death. Fortunately, Jim's injury was relatively minor. To lessen the entanglement hazard when working around machinery with rotating parts, we should consider the clothing we are wearing, gloves, jewelry, and hair. The following are a few safe work practices relative to each of these.

Clothing

- Wear close-fitting clothing
- Tuck your shirt into your pants.
- If you must wear a long-sleeve shirt make sure to button any cuffs. When long-sleeve shirts are not required, wear short-sleeve shirts, as they are less likely to get caught by moving parts.

Gloves

- Do not wear gloves when working near rotating shafts or other rotating machinery parts
- If you must wear gloves for health and safety reasons, make sure they are close-fitting gloves and that your supervisor has identified them as suitable for the task.

Jewelry

- Do not wear jewelry at work.
- If you wear a medical alert bracelet, secure it by wearing a transparent surgical or adhesive band that holds the bracelet snugly to your skin.

Hair

- Wear long hair in a bun, tie it back, or cover it with a cap or hairnet.
- If you are not sure if your hairstyle is safe for your particular work, check with your supervisor.
- Keep facial hair short so it will not get caught by moving machinery parts

DISCUSS WITH YOUR CREW

What pieces of equipment do you work with that have rotating parts that may present entanglement hazards (to include portable drills)?

Look at the clothing, gloves, jewelry, and hair of your coworkers. What should these coworkers do to prevent injury if working with equipment that has rotating parts?

SAFETY TALK ATTENDEES:

CHARLAS DE SEGURIDAD



Prevención de lesiones por enredos en maquinaria

Hace algunos años, una cuadrilla de hojalateros realizaba un trabajo en una planta de fabricación que requería el uso de equipo de protección personal específico (incluidos guantes) en todo momento. Jim era un pulidor de metales y estaba en ese equipo. Poco después de llegar al lugar de trabajo una mañana, Jim se puso el equipo de protección personal requerido y comenzó a perforar agujeros en la fundición de una máquina. Sin embargo, el pulgar del guante en su mano izquierda se enganchó en la broca giratoria y tiró de su pulgar hacia el taladro.

Incidentes como este a menudo se denominan incidentes de enredos porque son causados por una prenda de vestir suelta, joyas, cabello largo o incluso equipo de protección personal que se enreda en el equipo giratorio y jala al trabajador hacia el equipo. Desafortunadamente, los incidentes de enredos pueden causar lesiones graves o la muerte. Afortunadamente, la lesión de Jim fue relativamente menor.

Para disminuir el peligro de enredarse cuando se trabaja cerca de maquinaria con piezas giratorias, debemos considerar la ropa que usamos, los guantes, las joyas y el cabello. Las siguientes son algunas prácticas de trabajo seguras en relación con cada uno de estos.

Ropa

- Use ropa ajustada
- Métete la camisa dentro de los pantalones.
- Si debe usar una camisa de manga larga, asegúrese de abotonarse los puños. Cuando no se requieran camisas de manga larga, use camisas de manga corta, ya que es menos probable que queden atrapadas por las piezas móviles.

Guantes

- No use guantes cuando trabaje cerca de ejes giratorios u otras piezas de maquinaria giratorias.
- Si debe usar guantes por razones de salud y seguridad, asegúrese de que sean guantes ajustados y que su supervisor los haya identificado como adecuados para la tarea.

Joyas

- No use joyas en el trabajo.
- Si usa un brazalete de alerta médica, asegúrelo con una banda quirúrgica o adhesiva transparente que lo sujete firmemente a su piel.

Pelo

- Use el cabello largo en un moño, átelo hacia atrás o cúbralo con una gorra o una redecilla.
- Si no está seguro de si su peinado es seguro para su trabajo en particular, consulte con su supervisor.
- Mantenga el vello facial corto para que no quede atrapado por las piezas móviles de la maquinaria

DISCUTA CON SU EQUIPO

¿Con qué equipos trabaja que tienen partes giratorias que pueden presentar riesgos de enredos (incluidos los taladros portátiles)?

Mire la ropa, los guantes, las joyas y el cabello de sus compañeros de trabajo. ¿Qué deben hacer estos compañeros de trabajo para evitar lesiones si trabajan con equipos que tienen piezas giratorias?

ASISTENTES DE LA CHARLA DE SEGURIDAD:
