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17TH ANNUAL

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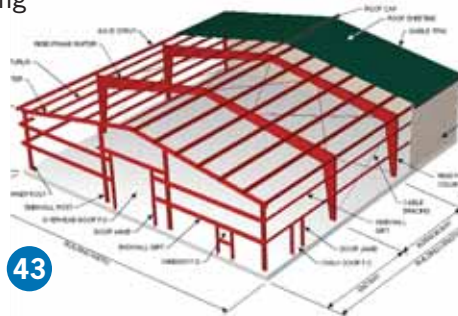
White paper from the MBMA comparing two commonly used methods



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On the Cover: Main photo, from Project of the Month, courtesy of Graber Post Buildings; Cupola, Plyco Corp.; Roll-forming machine, ASC Machine Tools, Inc.. Design by Kevin Ulrich

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 sharon@shieldwallmedia.com

PRODUCT GUIDE

Your comprehensive source for products and services in the metal roofing industry.

HOW TO USE THIS RESOURCE:

The index below is a guide to help you find companies, suppliers, manufacturers, and associations that provide specific products or services for the metal roofing industry. This index is followed by an alphabetical listing. Many companies have included logos and/or descriptions of their businesses to explain their offerings. Companies that have won the 2019 Metal of Honor Awards are marked with Metals of

Honor. Companies that advertised separately in this issue can be found in our ad index on page 42. As an added convenience, the Buyers' Guide is also available online at www.constructionmagnet.com, the Construction Magazine Network. The online version contains a more comprehensive list of suppliers for each category.



PRODUCT CATEGORIES

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Arkema, Inc.
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Dura Coat Products
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Liberty Steel Products
Prassas Metal Products
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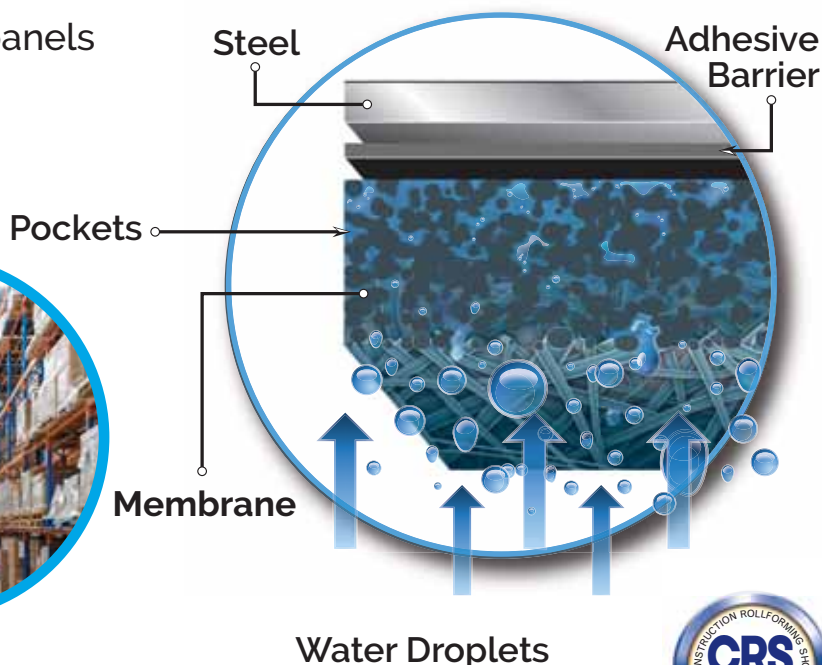
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Metal Roofing Alliance
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Association-International

BUSINESS MANAGEMENT MEDIA

Frame Building News
Garage, Carport & Shed Builder
Metal Roofing Magazine
Idea Book, The
Rollforming Magazine
Rural Builder
Source Book, The

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TRADE SHOWS

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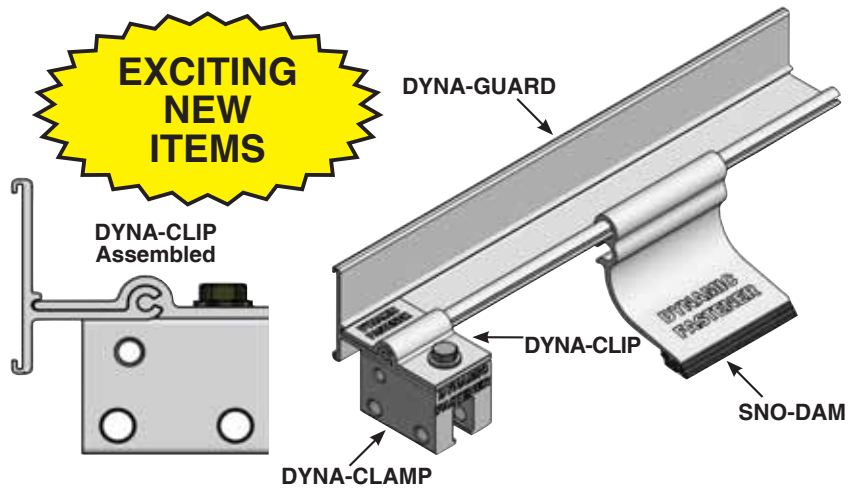
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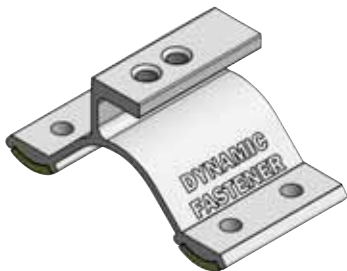


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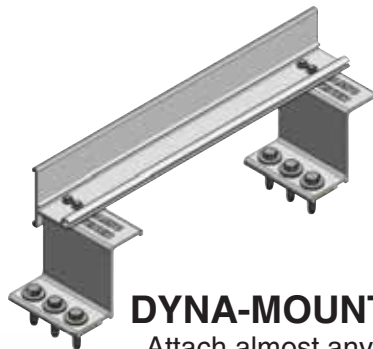
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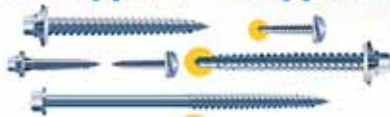
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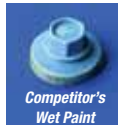
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From the publishers of Rural Builder, Metal Roofing Magazine and Frame Building News. Launched in Fall 2018, Rollforming Magazine is the only publication specifically geared to roll formers in the construction industry. The magazine mails four times annually: Winter, Spring, Summer and Fall. For advertising opportunities contact Gary@shieldwallmedia.com. For editorial questions contact Sharon@shieldwallmedia.com.



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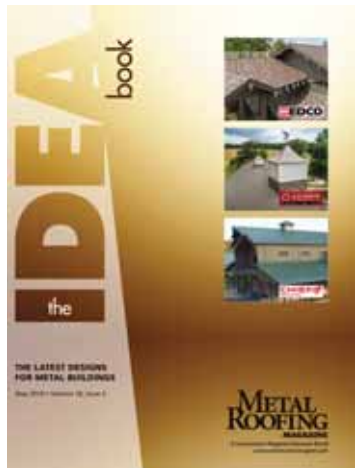
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Each listing is provided by the suppliers themselves and include product information and a snapshot of the product, plus a website address, phone number or e-mail address

where you can find additional information.

Categories are listed alphabetically in the table of contents below, and in the following pages.

Whether you are looking for metal panel, components, or coil, these suppliers are there to help you.

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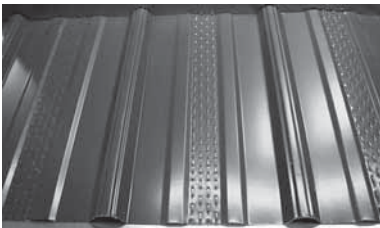
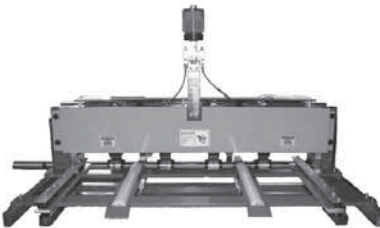
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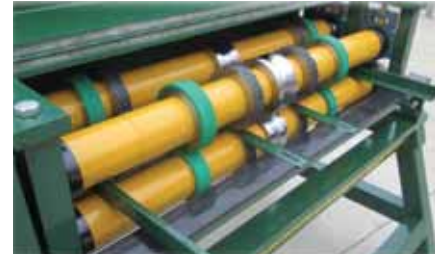
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BECK America



The RoofLoc® SCRAIL® system was developed to install metal roofing and facades quickly and efficiently. Two times faster than collated screws, and eight times faster than bulk screws, this performance could only be achieved through the combination of the pneumatic Roofing Installation Tool and the patented RoofLoc® SCRAIL®. The tool design allows for excellent ergonomics and tool balance, which promotes better ease of use, even on the longest, toughest jobs.

www.beck-america.com

Leland Industries



"Mini Drill Point" roofing and siding screws feature a self-drilling "Mini Point" to reduce installer fatigue when drilling in extended arm positions. Featuring a Hi-Hex head to compliment the Mini Drill point, the fastener drills and taps high-tensile steel with ease and is capable of drilling 16-gauge total thickness. Available in Low Profile Truss head design or Hi-Hex, Mini Drills are used for attaching metal sheets to metal door frames or multiple laps of steel sheet. The product drills with no pig tails and at speeds as low as 1,000 RPM. Offered in Carbon or high-tensile Stainless Steel, the MDP screw can be powder coated and warranted to match long-life panel warranties.

www.lelandindustries.com

ST Fastening Systems



ST Fastening Systems supplies steel-frame and post-frame screws for agricultural, commercial, industrial, and residential metal roof applications. Product strengths are drill quality and corrosion resistance, enhanced by the state-of-the-art POWDERFUL powder coat paint. The MAXX Steelbinder and Woodbinder MB with micro-bit drill point eliminates slow-drill or no-drill complaints. The ZXL Steelbinder and Woodbinder is a zinc-aluminum alloy molded head family that carries a 40-year warranty against red rust. New in 2019 is the Woodbinder OSB sharp point Type 17 specifically designed to prevent strip-out in OSB and light-density wood. It is also available in a ZXL version for residential metal roofs.

www.stfasteningsystems.com

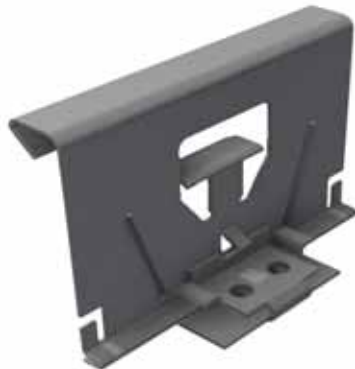
Titebond



Titebond WeatherMaster Metal Roof Sealant is specifically formulated to outperform all other sealant technologies, including silicones, tri-polymers and polyurethanes. This superior polymer provides a waterproof seal against water, wind, dust and dirt. It offers exceptional adhesion to Kynar-coated metal materials, along with standard metal, aluminum, steel, galvanized bonderized surfaces, plastics, and glass. Titebond WeatherMaster Metal Roof Sealant is available in over 50 colors, all of which match today's popular metal roof and metal siding colors, regardless of the material or manufacturer.

www.dynamicfastener.com

Building Products Development



Building Products Development (BPD) is a leading metal roof clip manufacturer in the United States. BPD offers a full line of high-quality clips and accessories for all standing seam profiles. With large stock readily available, BPD is able to process and ship most orders on the same day.

www.wegotclips.com

Triangle Fastener Corporation



TFC is pleased to announce the #14 DP1 CONCEALOR® 304 Stainless Steel Bi-Metal Pancake Head Screw. The new screw is engineered to provide superior corrosion resistance and ductility. It is dimensionally identical to the #14-13 DP1 carbon steel CONCEALOR,® providing easy installation. The buttress thread increases pullout loads compared to ordinary roofing screws. It is TRI-SEAL® top-coated to improve tapping and reduce thread roll-over. It can be used to fasten to metal, wood, or concrete.

www.trianglefastener.com

Maze Nails



Maze is the exclusive manufacturer of Stormguard double hot-dipped galvanized nails with a lifetime warranty against rust. In business since 1848, Maze offers a full line of specialty nails in bulk for hand driving and in collated sticks and coils for popular pneumatic nailers. Maze has been serving the post-frame industry for many years, providing painted rubber washer nails for corrugated roofing and siding. Maze post-frame nails meet the all-important ASTM F 1667 specification. In addition, Maze manufactures nails for fiber cement siding products, cedar and redwood sidings, fencing, decking and roofing. Maze nails are proudly made in the USA in Peru, Illinois.

www.mazenails.com

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ROLLFORMING MAGAZINE

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- **Cover Story:** Help diversify your business with custom panels
- **Secondary Article:** What determines the thickness or type of metal in any given application?
- **Product Profiles:** Snips, Shears, Seamers
- **Roll-former Company Feature**
- **Bonus Distribution:** Florida Roofing & Sheet Metal Expo & Western Roofing Expo
- **Advertising Deadline:** April 24, 2020
- **Issue Mailing Date:** May

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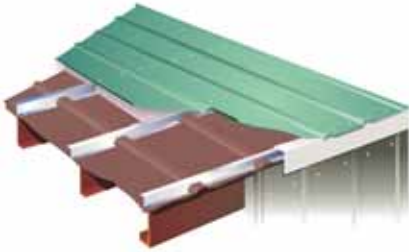
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www.ag-co.com

Plyco



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www.plyco.com

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www.advarchsm.com

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www.e-zgutter.com

Raytec Manufacturing



HangTite and HangFast hidden gutter hangers, manufactured by Raytec Manufacturing, are exceptionally strong. Both have proven records of performance, strength and ease of use in the field. Raytec engineers designed the Hangtite to be strong. Hangfast hangers, with the integrated screw, add speed to the installation without compromising performance. Both hangers are available in 5-inch and 6-inch sizes, in aluminum, galvanized, and copper.

www.raytecllc.com

SNOW & ICE MANAGEMENT

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Dynamic Fastener's Dyna-Guard snow retention system is designed to be used on virtually any steel metal roof. Dyna-Guard is an 8-foot long extruded aluminum rail with a T-shape profile. Dyna-Guard is installed by attaching non-ferrous clamps or mounts to a metal roof and bolting or screwing the system to clamps or mounts. Eight Dyna-Clamps with round-point stainless steel set screws and Sno-Dams are also offered. Sno-Dams attach to the back of Dyna-Guard and inhibit snow and ice from sliding underneath. Dyna-Clips are available as a Dyna-Guard to Dyna-Clamp connection device when using unpunched Dyna-Guard. A 2-inch wide painted strip of metal from the same material as the roof is inserted in the Dyna-Guard for aesthetics.

www.dynamicfastener.com

ST Fastening Systems



ST Fastening Systems offers Snow Trax snow retention guards for exposed fastener roofs and the MRC Snow Trax roof clamp for standing seam roofs. The Snow Trax is 16-gauge 304 stainless steel available in more than 20 powder coated colors. Its adhered rubber gasket eliminates the need for additional sealant. The MRC is extruded aluminum, and a colored rail slides through the clamp grooves to provide maximum protection from snow and ice.

www.stfasteningsystems.com

AceClamp by PMC Industries



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ROOFING COMPONENTS & SOFTWARE

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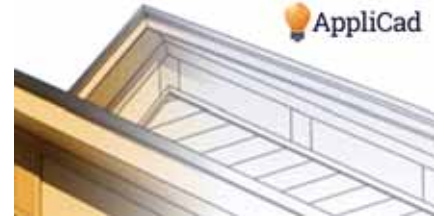
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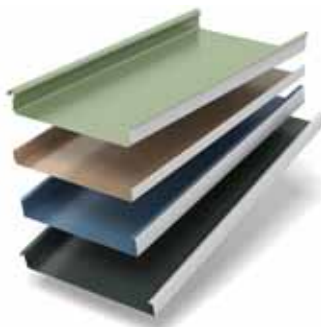
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www.PAC-CLAD.com

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www.abcmetalroofing.com

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www.everlastmetals.com

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www.levisbuildingcomponents.com

MFM Building Products



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www.mfmbp.com

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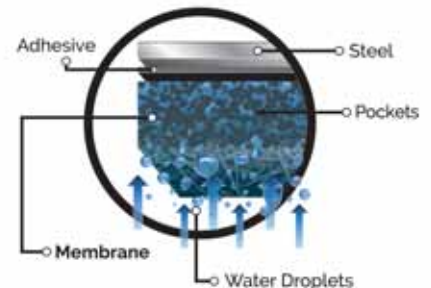


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Comparison of Retrofit Systems Over Existing Metal Roofs

By Brian Gardiner FRCl, RRC, CCS
BMG Enterprises, LLC

The following white paper was written for the Metal Building Manufacturers Association and reprinted with their permission.

The goal of this paper is to compare two commonly used methods of retrofitting existing metal roofs and illustrate important design considerations that frequently apply to candidate buildings. As this is a limited review, not all considerations will apply and additional items not addressed, such as the potential for condensation, can prove important to evaluate for a successful retrofit.

Why Retrofit?

Metal roofs have been documented to perform well and have a long service life. However, when an existing metal roof does reach the end of its service life, or is experiencing problems, it can either be repaired, reroofed, or retrofitted. Retrofitting (aka recovering) has many advantages over reroofing, including:

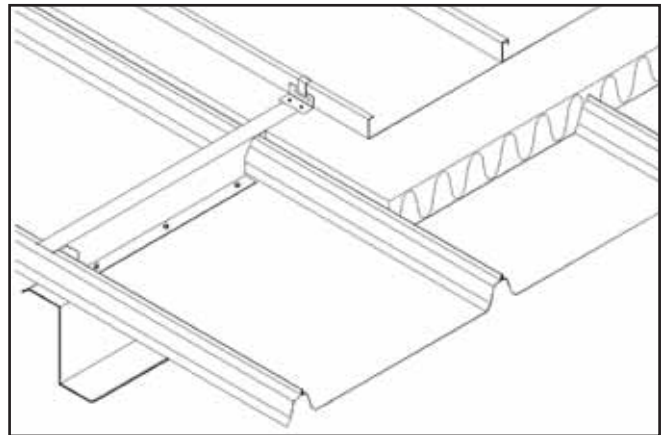
- Original roof provides temporary building interior protection during new roof installation
- Allows for building operations to continue
- Reduces landfill waste
- Reuses existing insulation and allows adding more insulation over the existing roof
- Provides a safer work surface than exposed existing secondary structural members
- Reduced cost

What are the Retrofit Options?

Typically, a compact (low-profile), lightweight (less than 3 pounds per square foot) retrofit solution is recommended for metal building systems, as the original structure may have been optimally designed using a lightweight metal roof. The existing building's structure may require enhancement to meet the current building code and to function properly for the selected retrofit roof system. Two common retrofit options that are the subject of this paper are:

Metal over Metal: Usually another lightweight metal roof is installed over the existing metal roof [Figure 1]. Metal roof retrofits do not typically rely on the existing metal roof to function as a structural deck for support and attachment of the new metal roof system.

Single-Ply over Metal: Single-ply roof systems are also lightweight and utilized for retrofits over existing metal roofs

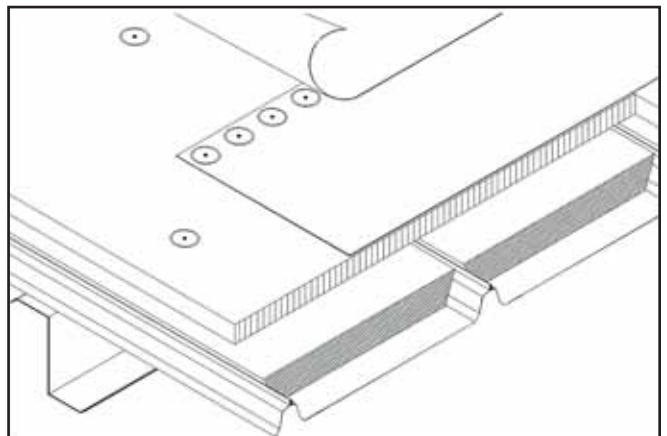


1. Example of a metal over metal retrofit assembly.

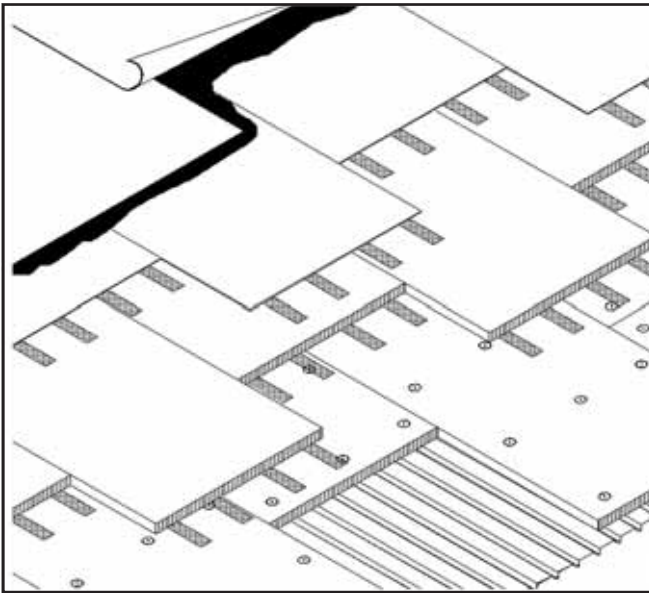
[Figure 2]. Many single-ply membrane roofs rely on the existing metal roof to function as a structural deck for support and attachment of the roof system, including board insulation, as well as for support of live, snow, and wind loads, and for providing stability to the roof support members.

What are the Building Code Requirements?

The International Building Code (IBC) and the International



2. Example of a single-ply over metal retrofit assembly.

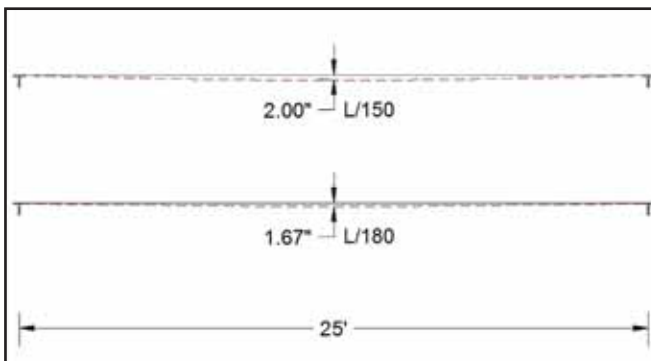


4. Example of steel deck and insulated single-ply roof.

tate strengthening or stiffening the existing support structure, because design loads in the later codes may have increased from the original design requirements.

Secondary Structural Member Deflection

The 2015 IBC Table 1604.3 'Footnote a' stipulates a live load deflection limit of $L/150$ for secondary roof structural members that support only "formed metal sheeted roofing," whereas the deflection limit when supporting a non-metal sheeted roof such as a single-ply roof is $L/180$ [Figure 5]. IBC deflection limits under snow loading and wind loading are identical for the two retrofit systems. Cold-formed steel purlins, often used as



5. Secondary structural member deflection limits at a 25-foot span.

secondary structural members for metal buildings, are not cambered.

The difference in deflection limits could require that the secondary structural members need additional stiffening for code compliance when a single-ply roof is used in a retrofit.

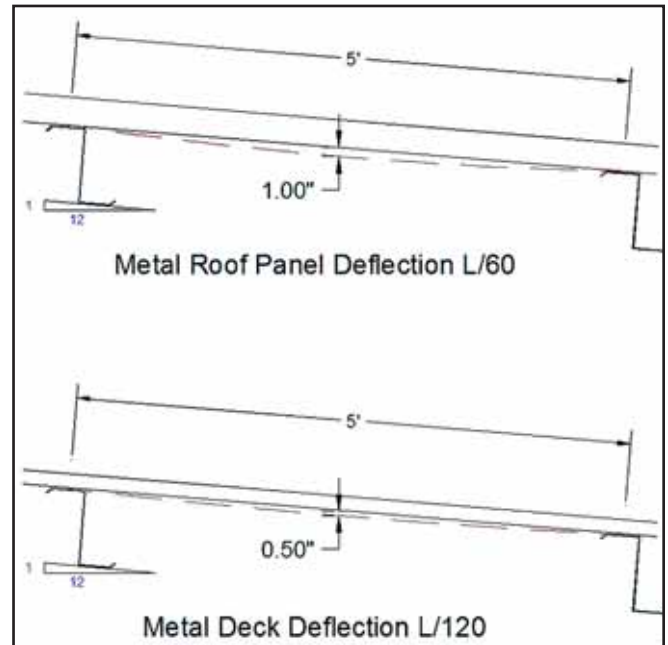
It is recommended that a licensed professional engineer prac-

ticing structural engineering with knowledge of metal buildings evaluate the existing structural system to ensure it is adequate for current building codes and to support the anticipated loads imposed by the retrofit roof system.

Existing Metal Roof Properties

Structural metal roofing is not the same as structural metal decking or steel roof deck. According to the IBC, structural metal roofing is where the metal roof panel functions as the roof deck, providing support for loads, and as a roof covering, providing weather protection. Steel roof deck, according to the Steel Deck Institute (SDI), is defined as steel deck panels used in a structural manner as a base for construction and supporting the roof insulation and membrane.

A single-ply roof system in new construction is designed to be integral with structural metal decking. Using an existing metal roof as the structural support system in a single-ply retro-



6. Metal roof and metal decking deflection comparisons.

fit assembly changes many of the underlying assumptions and characteristics. For example, most of the wind uplift and fire ratings for single-ply roof systems are based on a 22 gauge, or thicker, steel deck. Steel deck profiles are typically thicker and more rigid than most metal roofs, especially standing-seam panels, which affect the strength and stiffness of the total assembly.

Existing metal roofs are typically 24 gauge, or thinner, steel and were not originally intended to perform as a structural deck for a single-ply roof system. The Steel Deck Institute's ANSI/SDI RD-2010 Standard for Steel Roof Deck has a total load deflection limit for steel roof deck at $L/120$, whereas IBC Table 1604.3 'Footnote a' stipulates a total load deflection limit of $L/60$ for structural metal roofing [Figure 6].

RETROFIT ROOFING

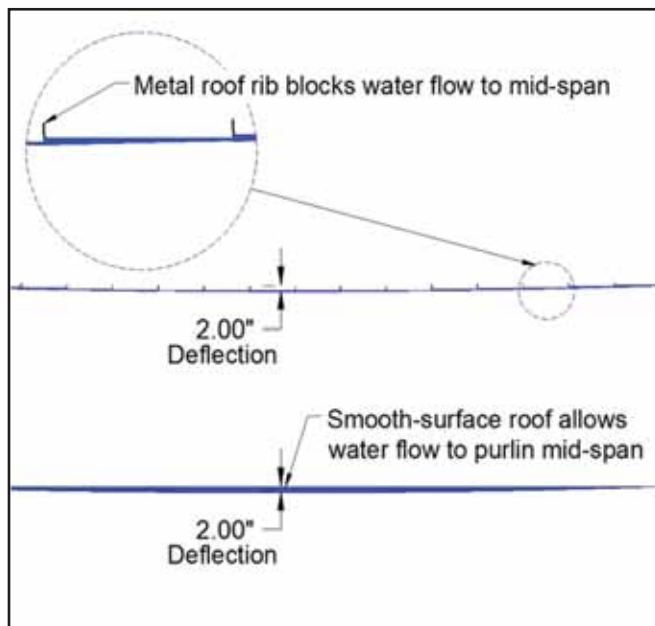
Single-ply roof manufacturers may also have minimum requirements for roof deck properties, depending on how the roof insulation and roof membrane are attached. Roof insulation or single-ply membranes that are adhered, rather than mechanically-attached, are more sensitive to excessive deflection. Therefore, the existing metal roof properties can be substantially different from the typical steel deck used with single-ply roofing. Less incompatibility exists between a metal over metal retrofit since the new metal roof has the same deflection limits and the load path is directly through to the secondary structural members.

It is recommended to consult with the local building official (authority having jurisdiction), a licensed professional engineer practicing structural engineering, and the single-ply roof manufacturer to determine if the existing building's metal roof is adequate to perform as a structural deck for single-ply or other similar retrofit systems.

Ponding Water

The 2015 IBC Table 1604.3 states in 'Footnote e', "The above deflections do not ensure against ponding. Roofs that do not have sufficient slope or camber to assure adequate drainage shall be investigated for ponding."

Most metal buildings with an existing metal roof panel at deflection limit of $L/60$ are sloped sufficiently to prevent ponding water between purlins. Ribbed metal roof panels control rainwater flow and do not allow lateral water movement to purlin mid-span locations where water ponding could progress into a significant problem. As a result, the metal building structural design may have been based on the assumption of a uniform load condition, especially in areas where little, or no, snow loads are anticipated.

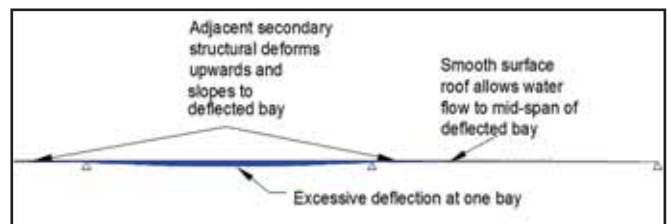


7. Comparison of water flow to purlin mid-span.

A smooth-surfaced single-ply roof, on the other hand, does not control lateral water migration [Figure 7]. In addition, a mechanically-attached single-ply that billows or flutters during wind events may cause an unbalanced load due to water displacement. Unbalanced loads may occur when changing from a ribbed panel to a smooth-surfaced single-ply roof.

Building owners may add additional auxiliary, or collateral, loads to metal building secondary framing from the building interior non-uniformly, resulting in unanticipated excessive deflection due to unbalanced load that may deform adjacent existing purlins upward, sloping towards the excessive deflection [Figure 8].

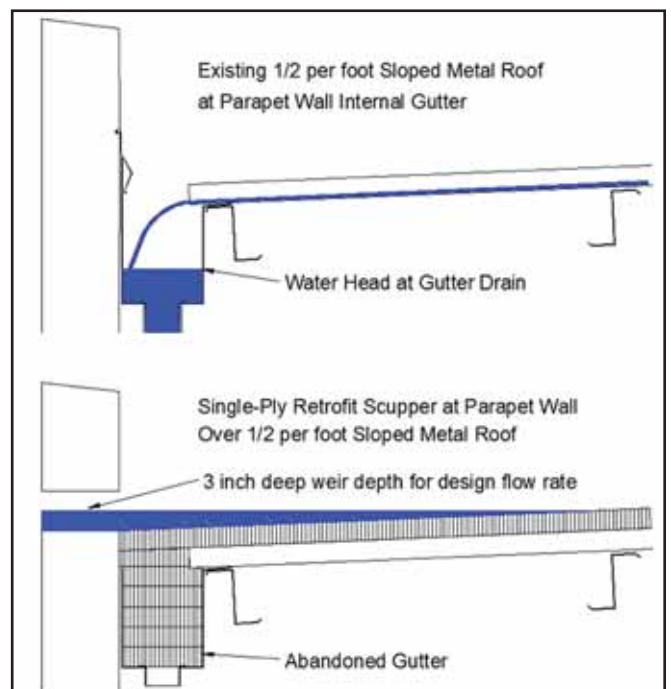
Deflection resulting in ponding water could be especially troublesome when an existing concealed gutter at a rise wall is retrofitted with either roof drains, or scuppers, that require a head of water on the roof surface to achieve the designed flow



8. Excessive deflection in one bay may result in uplift of secondary structural on adjacent bays.

rate [Figure 9].

Ice and snow melt water could move laterally to the purlin mid-span on a smooth surfaced roof and pond due to differential thaw rates and be restricted from flowing off the roof by ice dams.



9. Concealed gutters are often covered in retrofit single-ply roofs.

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RETROFIT ROOFING

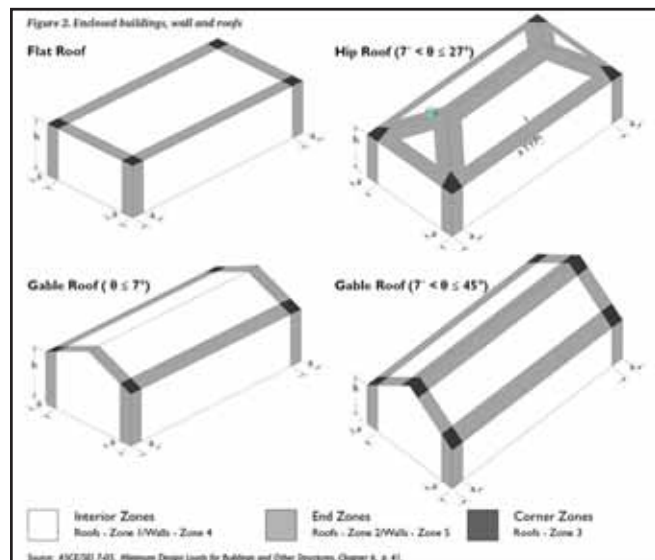
The 2015 IEBC 701.2 states: “Conformance. An existing building or portion thereof shall not be altered such that the building becomes less safe than its *existing condition*.” Installing a smooth surfaced roof that results in an unbalanced load condition could be construed as less safe than the original ribbed metal roof that prevented lateral water flow to the purlin mid-span. There are documented failures because of this issue.¹

It is recommended that a review of the building structure, the interior imposed loads, and drainage provisions be performed by licensed professional engineer(s) for unbalanced loads and potential water accumulation on a single-ply retrofit roof that may exceed the existing structural capacity.

Retrofit Roof Fastening

The capacity of the new metal roof panel and the existing metal building purlin thickness and spacing will usually dictate the spacing of the retrofit roof attachment.

IBC references ASCE 7, *Minimum Design Loads for Buildings and Other Structures*, for wind load design. Design wind loads vary due to building height, geographic location, enclosed vs. partially enclosed, parapet height and other factors. Roofs have

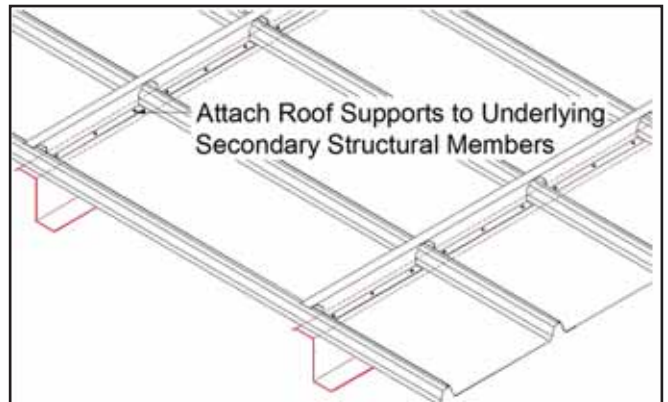


10. Wind uplift zones on varying roof slopes and configurations.

greater wind pressures in corner and edge zones. For steeper slope roofs, there are additional areas of greater wind pressures along the ridge [Figure 10]. As previously discussed, the latest code requirements may be substantially different, especially for wind loads, which have changed significantly over the past few decades.

Compact metal roof retrofits frequently incorporate secondary steel members that are placed directly over the existing metal roof and are easily centered over the underlying purlins [Figure 11]. These additional structural members placed direct-

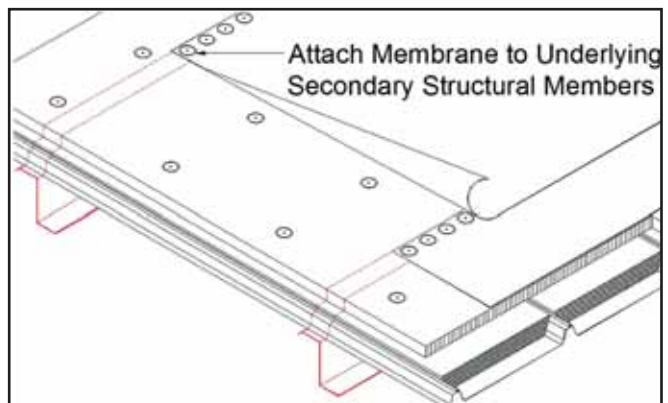
¹ “Why You Should Think Twice About Putting a Single-Ply Roof on a Metal Building,” by Smith and Wolfe, RCI Interface, November 30, 2016.



11. New roof supports attached through existing roof.

ly over the existing roof purlins may have the added advantage of increasing the load resistance and other performance characteristics. If properly accounted for in design and/or testing, this added strength can help offset increased loads when more recent codes govern the retrofit.

Single-ply roof systems typically have board insulation in-between the metal roof ribs and one, or more, layer(s) of insulation, or coverboard, on top of the first layer, which typically do not add structural capacity to the roof [Figure 12].



12. Single-ply roof fastening to underlying secondary members.

Most existing wind uplift ratings for membrane roofs are based on a 22 gauge, or thicker, steel deck with a 33 ksi yield strength. Some mechanically-fastened roof designs may require an 80 ksi deck yield strength instead of the 50 ksi yield strength often used for structural metal roofs in metal buildings. Most mechanically-attached single-ply roofs are required to be attached to underlying existing purlins [Figure 12] because the existing roof was not intended to support these concentrated loads.

Mechanically-attached single-ply roof membranes are more difficult to attach to existing secondary structural members than metal over metal retrofits, as purlins are concealed below the insulation layers. This can become a significant issue in ensuring that the membrane is attached correctly during con-

struction [Figure 12].

Metal building roofs are designed based on certain assumptions with regard to the load path and resisting the code specified loads. For a retrofit scenario using a single-ply membrane roof, not only is load path and strength/stiffness of the metal substrate different than typically assumed, but the loads are typically higher if compliance with a more recent code is required. Designers must develop an enhancement solution where existing purlins below the existing metal roof are spaced too far apart to achieve code compliance. Existing secondary structural members may require reinforcement at purlin laps and other structural modifications. One method to enhance an existing structure is to add secondary structural members underneath the existing metal roof. Unfortunately, adding these new members underneath the existing roof is expensive and disruptive to building operations.

Single-ply membrane retrofits are either mechanically-fastened or adhered to the existing structure. For an FM Global insured project, or a project that is required to meet FM Global recommendations by reference, the 2016 FM Global Data Sheet 1-31 may apply. Data Sheet 1-31, Section 2.2.4 indicates that only mechanically-fastened roofs that are attached into secondary structural members are permitted. This is presumably due to unknowns regarding the remaining structural capacity of the existing metal roof that will serve as a roof deck. Data Sheet 1-31, Section 3.1.3 recommends increasing insulation board fastening by 50 percent when attaching insulation board into less than a 22 gauge deck. Data Sheet 1-31, Section 3.1.4 recommends the single-ply membrane fastener density be increased by decreasing the space between fasteners where additional rows of fasteners are not practical due to the lack of secondary structural members. Decreasing fastener spacing will work to a certain point, but may not be sufficient in certain uplift zones.

It is recommended that a design review be performed of the retrofit roof field, perimeter, and corner zones to ensure that the fastening of the roof system is code compliant and to ensure that the existing structure is suitable to withstand the current required loads. Quality control should be implemented during construction to ensure that single-ply membrane fasteners driven through insulation board layer(s) are properly engaged into secondary structural members.

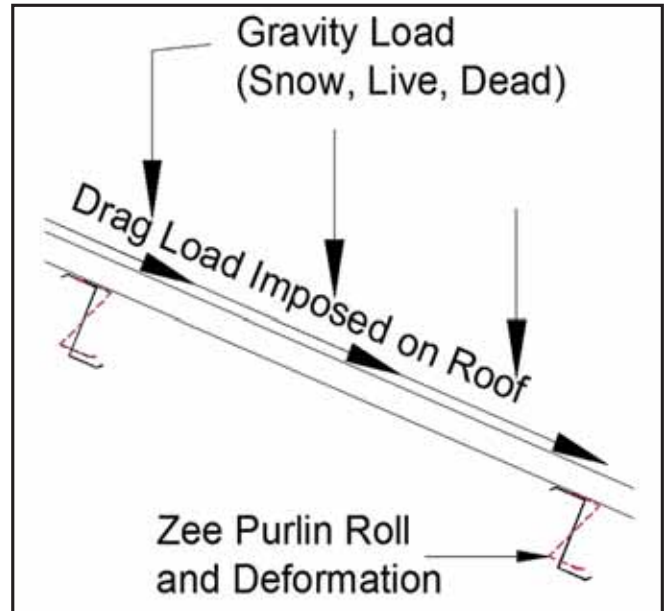
Drag Load

Drag load is a force that is the component of the gravity load parallel to the sloped roof surface, which has the effect of pulling the metal roof panels down the slope of the roof [Figure 13]. This load is particularly high on steeper slopes and when ice and snow accumulate on the roof.

Drag loads need to be resisted in a roof structure. In a metal roof, drag loads are resisted by mechanical anchorage of the metal roofing panels to the underlying structure. Drag load on roofs may result in purlin roll [Figure 13]. Excessive purlin roll, combined with sufficient gravity loads can result in structural

collapse.

When metal roof retrofits are installed with secondary members placed over and anchored to the existing metal roof system, the secondary members provide the resistance to the drag forces. Existing secondary roof members can be



13. Drag load may result in purlin roll.

restrained to resist increased drag loads with added bracing or flexural members. In the case of a single-ply retrofit, the loads are resisted by the lateral loading on long fasteners from the top of the insulating system to the existing purlins. The greater the insulation depth the greater the bending load on the fasteners. The fasteners should be evaluated for bending resistance.

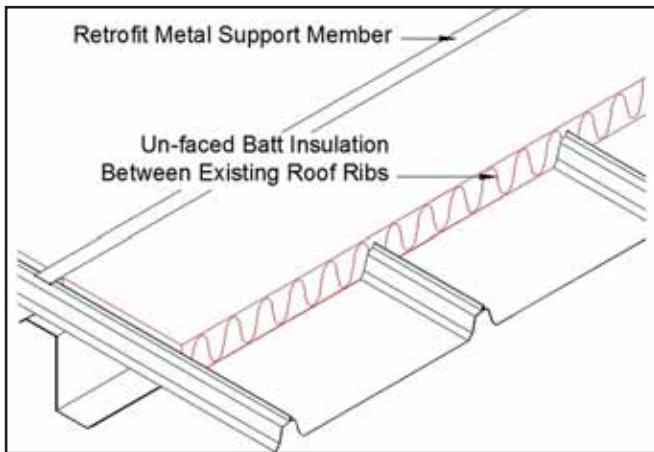
It is recommended that a design review be performed by a licensed professional engineer to determine whether the anticipated system provides the necessary resistance to drag loads.

Fire Rating

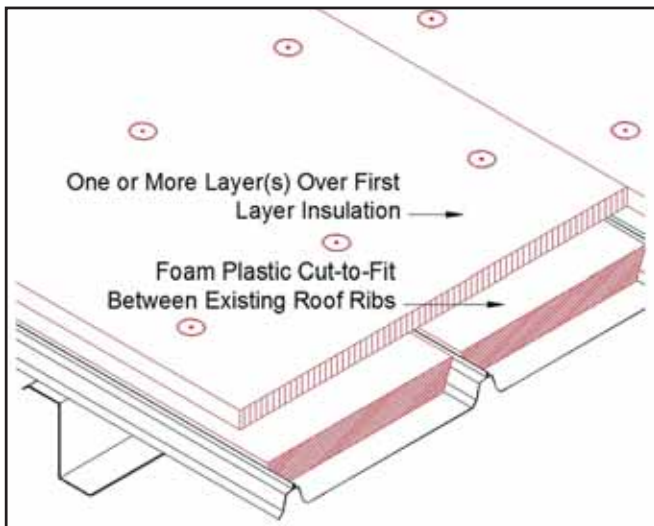
Both single-ply and metal retrofit roof systems can incorporate additional insulation between the new and old roofs. Un-faced fiberglass and other high melting point compressible insulation is typically utilized on metal roof retrofits [Figure 14], whereas single-ply roofs incorporate board insulation to provide a suitable bearing surface for a roof membrane [Figure 15]. Board insulation is usually a more efficient insulator than fiberglass batts. Metal panels are typically rated as a Class A roof assembly, according to IBC Section 1505.2, Exception 2, whereas single-ply membranes may or may not have a similar rating. Class A roof assemblies are those that are effective against severe fire test exposure, according to the IBC.

Board insulation used to support single-ply roofs is often expanded polystyrene cut to fit between existing metal roof ribs, combined with a top layer of either more insulation or a

RETROFIT ROOFING



14. One example of metal roof retrofit insulation.



15. One example of single-ply roof retrofit insulation.

coverboard. The 2015 IBC, Section 2603 requires that direct to deck foam plastic insulation meet either UL 1256 or NFPA 276. An FM Global-insured project, or a project that is required to meet FM Global recommendations, would typically be required to meet the more conservative tests described in FM Standard 4880 or NFPA 276 to be an FM Class 1 rated roof assembly.

Un-faced fiberglass will typically pass both tests, whereas board insulation, especially the lower melt point expanded or extruded polystyrene, may not meet either standard. Some foam plastic insulation has been tested and passed the UL 1256 test when placed directly over a 22 gauge, or thicker, metal deck. As stated above, metal roofs have different properties than metal decks and may perform differently in these tests.

It is recommended that the roof designer verify the fire classification both above and below the retrofit roof system for building code and building insurer compliance for the retrofit roof system.

Summary

Retrofit roofs over existing metal roofs have several potential benefits. There are also several design considerations related to the decision to choose a metal, or single-ply roof, especially when retrofitting a metal building. The following recommendations are provided to assist with this decision:

- Engage a licensed professional engineer practicing structural engineering with knowledge of metal buildings to evaluate the following:
 - ✓ Existing roof and structural system to ensure it is adequate for current building codes and to support the anticipated loads imposed by the retrofit roof system.
 - ✓ Retrofit roof field, perimeter, and corner zones to ensure code compliant fastening of the roof system.
 - ✓ Necessary resistance to anticipated drag loads on the retrofit roof system and existing structure.
- The retrofit roof designer should verify the fire classification both above and below the retrofit roof system for building code compliance and building insurer acceptance for the retrofit roof system.

The following additional recommendations are specific to single-ply over metal roof retrofits:

- Engage a licensed professional engineer practicing structural engineering with knowledge of metal buildings to evaluate the unbalanced loads and potential water accumulation on a single-ply retrofit roof with respect to structural capacity and drainage provisions.
- Consult with the local building official, a licensed professional engineer practicing structural engineering, and the single-ply roof manufacturer to confirm that the existing building's metal roof is adequate to perform as a structural deck for a non-metal sheeted roof.
- Implement quality control during construction to ensure that single-ply membrane fasteners driven through insulation board layer(s) are properly engaged into secondary structural members.

Building owners, and their design professionals and contractors, should evaluate retrofit roof solutions for their project to determine what is the most prudent choice. **MR**

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For the first time since its beginning, METALCON will be organized under new leadership.

Claire Kilcoyne, the original organizational leader for the major conference and trade show, has retired from her role.

“After 29 years of partnering with the Metal Construction Association, 35 years at PSMJ Resources, and 800,000 miles on the Mass Turnpike, I am hanging up my trade show sneakers,” said Kilcoyne in a press release prior to the 2019 show in October.

Kilcoyne began her career with the parent company, PSMJ Resources, Inc., in 1985 with a focus on trade-show sales.

After four years, she had the opportunity to devote all of her energy into planning METALCON, which was established in 1991. Despite tough economic times then, it was a huge success because of the demand in the metal construction industry for a new and innovative event. This was the beginning of developing partnerships and relationships that have carried METALCON throughout the years.

Now taking the reins is Judy Geller, a seasoned professional with more than 25 years of experience as a strategist, producer, and marketer in the conference and trade-show industry.

Geller began her career as confer-



Metalcon 2019 tradeshow exhibitor

ence manager for the iconic COMDEX Technology trade show, and the Windows World event produced in conjunction with Microsoft Corporation.

Prior to joining PSMJ Resources, Geller was an event consultant for ICD Events. **MR**

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Texas The Top Spot For Hail Claims

The National Insurance Crime Bureau (NICB) has released the most recent three-year analysis of insurance claims associated with hailstorms in the United States, and Texas and Colorado continue to remain at the top of the list.

According to a review of claims data from ISO ClaimSearch, there were a total of 2,891,291 hail loss claims from January 1, 2016 through December 31, 2018.

The top five states for hail loss claims were Texas (811,381); Colorado (395,025); Nebraska (163,336); Missouri (153,403) and Kansas (146,206).

The top five cities for hail loss claims during that period were San Antonio, Texas (75,187); Colorado

Springs, Colorado (67,920); Omaha, Nebraska (52,803); Denver, Colorado (48,357) and Plano, Texas (42,659).

Over the three years covered by this report, May had the highest monthly average for hail loss claims with 203,296. June was next with 178,881. April (164,232); March (153,716) and July (96,947) round out the top five.

Of the five policy types providing hail loss coverage, Personal Property-Homeowners was the most affected with 1,657,663 claims or 57 percent of the three-year total. It was followed by Personal Auto with 898,500 claims and Personal Property – Farm with 149,215 claims. **MR**

ABC Supply Donates to Veteran's Home Rehab

ABC Supply donated siding and roofing materials, plus installation help to transform a Wisconsin veterans home. The remodeled home was featured on the "Military Makeover" TV show Nov. 8, hosted by celebrity Montel Williams.

Homeowner Steve Wojcik served in the armed forces for 20 years, and was given an honorable discharge and medical retirement in 2005 after suffering serious injuries in Iraq. For his service, he has been awarded a Purple Heart, Meritorious Service Medal and National Defense Service Medal. The husband and father of three teenage daughters is now working as a Wisconsin State Trooper and was nominated by a co-worker for "Military Makeover."

The TV episode is available to watch at <https://militarymakeover.tv/>. **MR**



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project of the

Private Residence, Montgomery, Indiana



The Aesthetics Of Shingle, The Durability of Steel

This rural residence in Montgomery, Indiana, was in need of a roof upgrade. The owner chose a Cottage Shingle from Boral Steel Stone Coated Roofing because its

high-definition two-color blend offers the aesthetics of a shingle roof with the durability of a steel roof. Installation was done by Graber Post Buildings.

Project Overview

Location: Montgomery, Indiana

Building: Private residence

Roofing contractor: Graber Post Buildings

Roofing Panel: Steel stone-coated Cottage Shingle – Timberwood HD from Boral Steel
Photos courtesy of Graber Post Buildings





**2019
METAL
ROOFING**

TOP 10 PRODUCT

Your Vote Counts!

TAKE A MINUTE TO SUBMIT YOUR VOTE TODAY.

Help decide the Top 10 Products of 2019! Below is a list of products for the metal roofing industry displayed in the pages of *Metal Roofing Magazine* throughout 2019. Let us know which ones you liked the most. We'll announce the winners in the February/March 2020 issue.

FROM METAL ROOFING MAGAZINE APRIL ISSUE:

- Berridge Manufacturing Co. Metal Roof & Wall Panel (Cee-Lock; HR-16 Panel; HS and FW-12)
- Dynamic Fastener screws and clamps with Dyna-Coat
- Englert MetalMan gutter machine
- Everlast Metals architectural roofing and wall systems
- MFM Building Products, Premium HT Tile & Metal and Wind & Water Seal underlayments
- Maze Nails STORMGUARD Double Hot-Dipped Galvanized Nails
- Metal Plus Universal Safety Anchor
- Petersen Aluminum Snap-Clad PAC-CLAD
- Sherwin-Williams WeatherXL and Fluropon coil coatings
- Ventco – ProfileVent
- Zimmerman Metals roll-forming machines
- A.B.Martin metal roofing accessories
- East Coast Fasteners Ply-Lo Extreme screw
- Fabral Slim Seam, Grandrib 3 and Stand'N Seam panel
- Logan Stampings clips and accessories
- Roof Hugger retrofit roofing system
- MWI Uni-Vent II, Uni-Vent III and Ridg-Vents
- Rapid Materials rooftop attachments, tools and mounting solutions
- S-5! Metal roof ancilliary attachment solutions
- ST Fastening Systems WoodBinder and SteelBinder fasteners
- Triangle Fasteners specialty fasteners, tools and sealants
- Covertech, rFoil
- Filc USA, DripStop
- Levi's Building Components, FastVent Plus and FloVent
- Marci Industries, Flex-Pro
- Plyco vents
- Roll Former Corporation, Ag Panel Perforator
- Snap-Z Ridge Vents

FROM METAL ROOFING MAGAZINE MAY ISSUE – Idea Book:

- New Tech SSQ II Roof Panel Machine and the MACH II 7”/8” Combo Gutter Machine.
- London Garment Fall Protection Garment System

FROM METAL ROOFING MAGAZINE JUNE/JULY ISSUE:

- Aluminum Shingle Co., Perma Lock aluminum shingles
- ATAS International, metal tiles, shakes & shingles
- Boral Steel - Boral Steel Stone Coated Roofing
- CertainTeed - Matterhorn Metal Roofing
- DECRA Roofing - DECRA Tile and Villa Tile profiles
- EDCO Products – Infnit Roadhouse metal shingles
- The Interlock Group – InterLock roofing system
- Isaiah Industries – interlocking PVDF-coated steel & aluminum shingles
- TAMKO - TAMKO MetalWorks
- Tilor Roofing North America - Concealed Fastening (CF) Shingle
- East Coast Ply-Lo Driller

FROM METAL ROOFING MAGAZINE AUGUST/SEPT. ISSUE:

- Polyglass USA – Polystick MTS Plus underlayment
- Carlisle WIP Products – WIP 300 HT underlayment
- Firestone Building Products – CLAD-GARD SA FR with CoreGard underlayment
- GCP Applied Technologies Grace Ultra underlayment
- Garland Company – R-Mer Seal Self-adhering high-temp underlayment
- Sharkskin Ultimate Roof Underlayment
- Owens Corning – Titanium Synthetic Underlayment
- Underlayment Specialties Plus – RoofTopGuard SA underlayment
- RoofAquaGuard – Vent 3 underlayment
- Levi's Building Components Roloshield 25 and 50
- TAMKO –TW SeamTape

FROM METAL ROOFING MAGAZINE OCT./NOV. ISSUE:

- ST Fastening, Snow Trax snow guard
- Dynamic Fastener, Dyna Guard snow guard
- Ace Clamp, Sno Titan
- Isaiah Industries – Ice Dam Cutter

Please return this form by December 17, 2019

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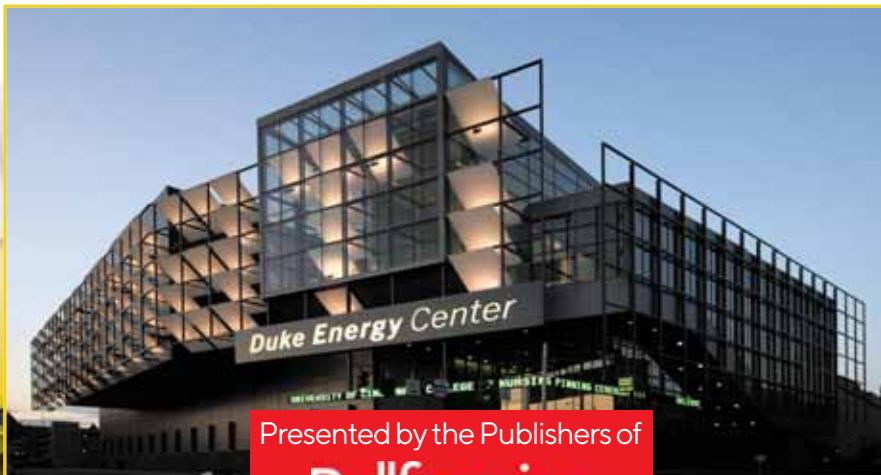


1ST ANNUAL

Construction Rollforming Show 2019

DECEMBER 12-13

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AT THE DOOR:**

- Exhibit Floor Entry \$70
- Exhibit Floor + Educational Programming: \$175

FOR MORE SHOW INFO:
bit.ly/CRSShow19

SHOW DETAILS

EXHIBIT FLOOR HOURS:

- Thursday, December 12: 12:30-5:30
- Friday, December 13: 8:30-12:30

EXHIBITORS:

- 15,000 + square feet of roll forming exhibitors
- Roll formers
- Coil suppliers
- Paint and coating manufacturers
- Clips, clamps and components
- Design software
- Efficiency and automation software
- Snow retention, ventilation and moisture control

SPECIAL PRESENTATION:

Friday, December 13

- Industry metrics on roll forming in the construction industry
- Market size, trends and direction
- Growth potential



EDUCATION:

- Inventory control and management
- Improving quality and productivity
- Coil and steel metallurgy and properties
- Paint and coating technology
- Business best practices and development

We are still looking for presenters and additional suggestions for the educational programming. If you would like to be considered as a possible presenter, or have a suggestion for a topic, please contact Gary Reichert. We value your input and suggestions.

EXHIBITORS

COMPANY	BOOTH #	COMPANY	BOOTH #	COMPANY	BOOTH #
3GM/Mac Metal	416	Dynamic Fastener	327	Palram Americas	202
AB Martin Roofing Supply	623	Fasteners Direct	708	Paragon	224
Ace Clamp	414	Flack Global Metals	222	Plyco Corporation	227
Akzo Nobel	523	Graber Post Buildings	428	Presto Tape	2
Albatross LLC	628	Hershey's Metal Meister	501	rFoil Insulation (Covertech)	118
American Producers Supply	411	Hixwood Metals	221	Rollforming Magazine	330
Ameripak	616	Johnson Bros. Roll Forming Co.	412	Royal Crowne Cupola	622
AMS Controls	216	Kloeckner Metals	618	SAMCO Machinery	516
ASC Machine Tool	610	Levi's Building Components	204	Sherwin-Williams Coil Coatings	418
Atlas Bolt & Screw	215	Liberty Steel	524	SmartBuild Systems	515
Beck Automation	422	Marco Industries	624	Snap-Z	101
Bradbury Group	316	Metal Rollforming Systems	201	ST Fastening Systems	528
Cannonball	522	Mill Steel	413	Star One Products LLC	710
Capital Forest Products	621	MWI Components	309	Stoll Metal Works	702
Cidan Machinery	310	NC Automation	312	SWI Machinery	302
County Line Concepts	521	New Tech Machinery	602	United Steel Supply	301
Cross Bridge Marketing	109	Northern Building Components	105	Ventco/Profile Vent	321
Direct Metals	112	Northstar Metals Manufacturing	122	Zimmerman Metals	210
Dr!pstop	209	Onduline/Tuftex	102		
Drexel Metals	110	Paint Valley Parts/Acu-Form	116		

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