

TRIAD CORRUGATED METAL, INC.

COMMERCIAL | RESIDENTIAL | AGRICULTURAL



METAL ROOFING

TCM



The Greener Choice for Your Roofing and Building Systems!

Did You Know...

Since metal roofing is made from recycled material, it is also 100-percent recyclable. As most consumers know, metal roofing has an extremely long life. But, if a metal roof ever needs to be torn off for any reason, it can simply go towards making another roof, as opposed to spending approximately 300 years decomposing in a landfill, like asphalt shingles do when they are torn off and thrown out.

Look for other helpful “Did You Know” Green-Tips located throughout this book!



METAL ROOFING

TABLE OF CONTENTS

Metal Roofing

Concealed Fasteners	3
Snap Loc 1-3/4"	4
Nailstrip 1"	6
Mechanical 1", 1-1/2", 2"	8
Standard & Custom Trims	10
Exposed Fasteners	11
AG Panel	12
R Panel	14
5V Panel	16
Standard Trims - AG & 5V	18
Standard Trims - R	19
Custom Trims	19
Colors & Metals	20
Warranties	21
Metal Shingles	25
Steel Shingles	25
Stone Coated Steel Shingles	27

Roofing Accessories

	29
Underlayment	30
Pipe Flashing / Vent Boots	31
Closures	31
Touch-Up-Paint	32
Caulking	32
Skylight Panels	32
Fasteners	33
Chimney Covers	37
Cupolas	38
S-5 Products	39
Tools	42

TRIAD CORRUGATED METAL, INC.

COMMERCIAL | RESIDENTIAL | AGRICULTURAL



METAL ROOFING

METAL ROOFING, TOOLS, FASTENERS & ACCESSORIES

As an industry leader in the fabrication of quality metal roofing products, Triad Corrugated Metal, Inc. has built a reputation on excellent service, quality products and dependability. TCM is the company you can count on to meet your metal roofing needs, for Residential, Commercial or Agricultural projects.

Metal roofing systems from TCM are both energy conscious and environmentally conscious. Many of our roofing systems are Energy Star® Certified and meet the requirements of the Cool Roof Rating Council. An Energy Star® Certified roof from TCM could qualify you for substantial tax credits, visit www.energystar.gov for the latest information. In addition to the energy conscious attributes, TCM metals roofs are 100% recyclable, reducing the amount of waste products created. A percentage of TCM's raw materials also come from recycled steel.

TCM metal roofing systems are durable and can withstand many of nature's toughest elements. TCM metal roofing systems meet some of the country's toughest building codes. Not only do our metal roofing systems meet tough building codes but depending on where you live, metal roofing can lower the cost of your homeowner's insurance. Metal roofs carry a Class A fire rating (most resistant) as established by

Underwriters Laboratories, Inc. Contact your insurance agent about possible discounts.

In addition to the benefits listed above, metal roofing is a cost effective roofing choice in comparison to other roofing systems. If you compare metal roofing to asphalt shingles in cost alone, you will see that metal roofing is a better roof for the money. In addition to the cost, asphalt shingles have an average life cycle of 17 years; negative issues associated with disposal and heat absorption; and are a petroleum based product, meaning prices change due to the prices of crude oil. As detailed above, TCM offers solutions to each of these problems in a series of comprehensive metal roofing products.

Features such as the life span, energy savings and durability against wind, fire, hail and ice, not to mention the environmental advantages make metal roofing an easy choice for your roofing needs. TCM's ability to provide metal roofing to match any needs and commitment to superior customer service make TCM your choice for the metal roofing needs of any project. Add beauty, durability and sustainability to any roofing application with a metal roofing system from Triad Corrugated Metal.



CONCEALED FASTENER PANELS



SNAP LOC 4

NAILSTRIP 6

MECHANICAL 8

SNAP LOC

Snap Loc metal panels are a perfect fit for residential and many architectural and commercial applications. The panels combine a clean, attractive look with strength and durability. Snap Loc is self-locking and watertight making it an appealing, smart choice for new or re-roofing projects.

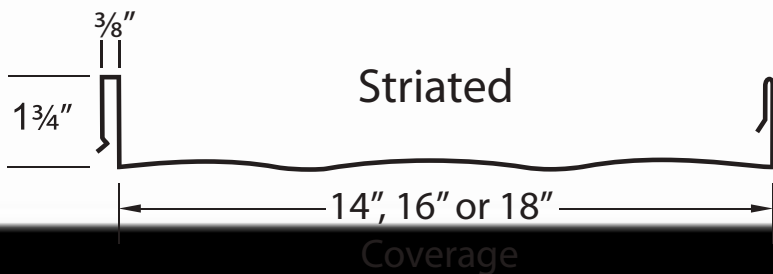
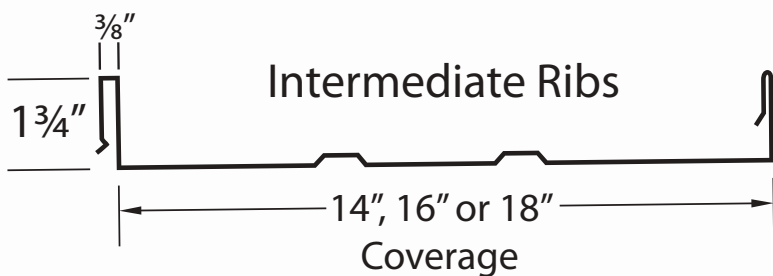
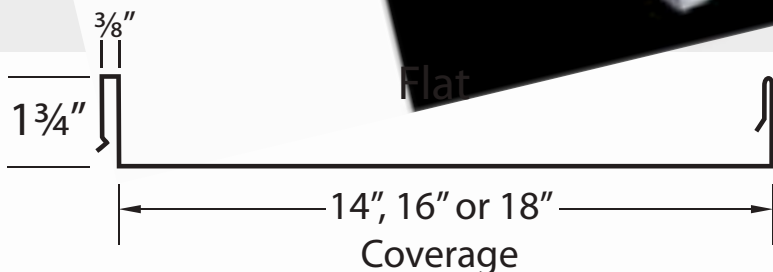
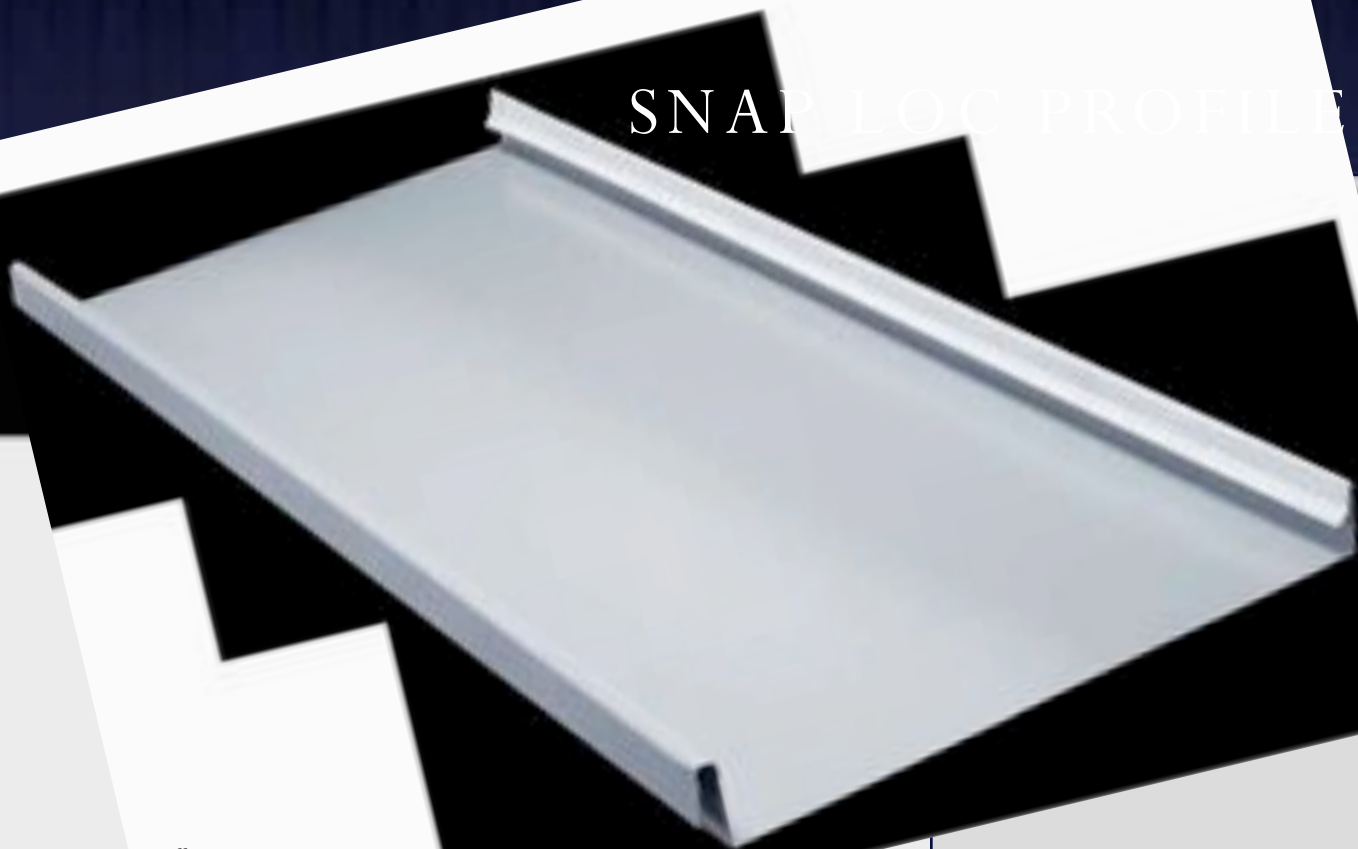


Did You Know...

There are many colors and profiles available that blend in with existing neighborhoods, communities and environments. Your local building codes and neighborhood by-laws should be addressed when considering metal roofing. Contact your Triad Corrugated Metal sales representative for additional information.



SNAP-LOC PROFILES



- **Finishes:** Classic Sil-Poly & Premium Kynar
- **Metals:** Galvanized, Galvalume®, Copper and Aluminum
- **Gauges:** 26ga and 24ga
- **Features:**
 - Δ Architectural/ structural integral standing seam panel
 - Δ Applies over open framing or solid substrate
 - Δ Snap together panel system
 - Δ Minimum roof slope: 1:12
 - Δ Cut to the inch

ACCESSORIES



NAILSTRIP

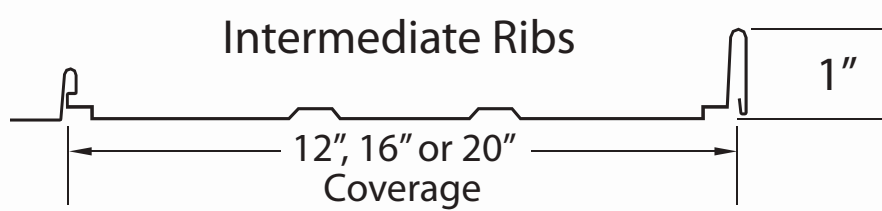
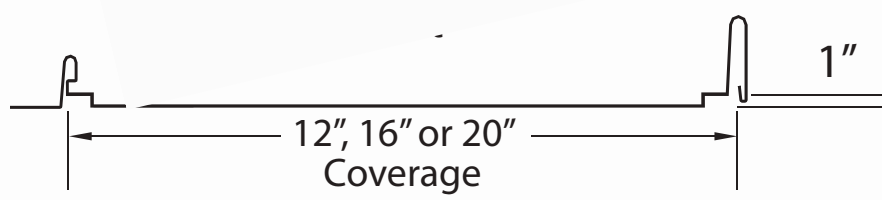
Nailstrip Panels are ideal for residential and architectural settings. The Nailstrip Panel is flexible and works well in a wide variety of building applications. The clip-less design saves you labor and money. Nailstrip is durable and can withstand extreme weather conditions.



Did You Know...

Metal roofing is a much better overall investment. It is longer lasting, durable and more weather-resistant (no warping, cracking, or peeling). Plus it is impervious to termites and pests. During testing, metal systems have withstood winds up to 200 m.p.h. and have historically survived hurricanes and wind storms when other roofing materials have failed.





... and 24ga
Coverage: 12", 16" or 20" panel coverage; 1" rib height

• **Features:**

- Δ Architectural standing seam panel
- Δ Applies over open framing or solid substrate
- Δ Snap together panel system
- Δ Minimum roof slope: 3:12
- Δ Cut to the inch

ACCESSORIES

MECHANICAL

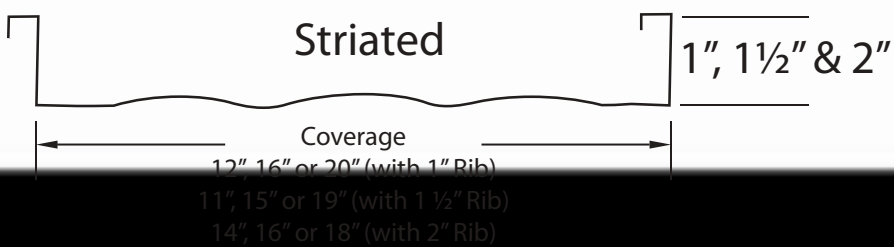
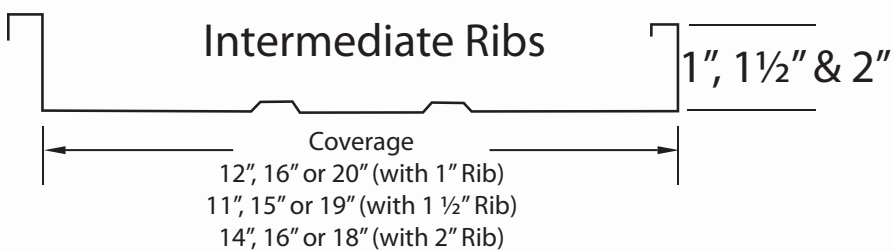
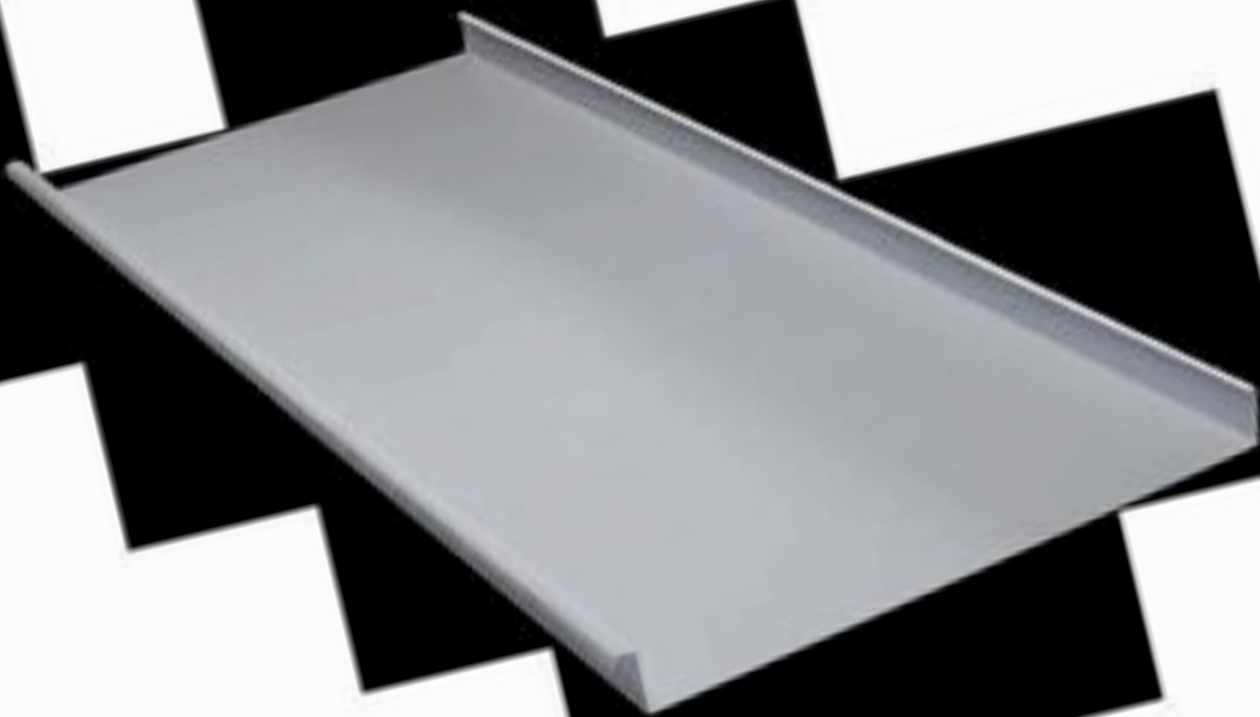
Mechanical Panels are a high performance metal roofing choice, well suited for commercial, architectural and residential applications. The seaming process for Mechanical Panels allows for multiple levels of wind resistance and makes the panels perfect for installation on low slope roofs.



Did You Know...

When properly installed the noise generated by a metal roof over a roof deck and insulation is no greater than that of a shingle system.



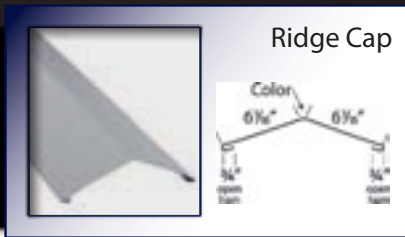


- Δ Architectural/ structural integral standing seam panel
- Δ Applies over open framing or solid substrate
- Δ Mechanically seamed panel system
- Δ Specially designed clip for thermal movement
- Δ Minimum roof slope: 1/2:12
- Δ Cut to the inch

ACCESSORIES



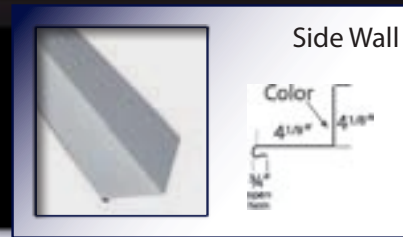
CONCEALED FASTENER TRIM & CLIPS



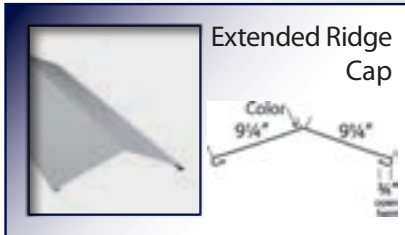
Ridge Cap



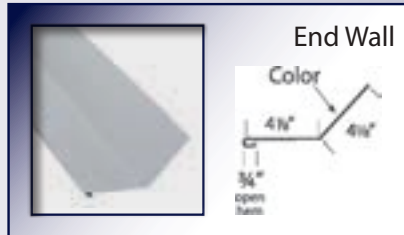
Valley



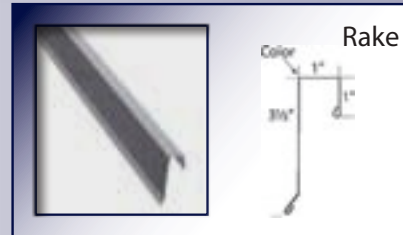
Side Wall



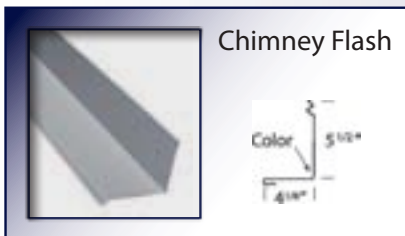
Extended Ridge Cap



End Wall



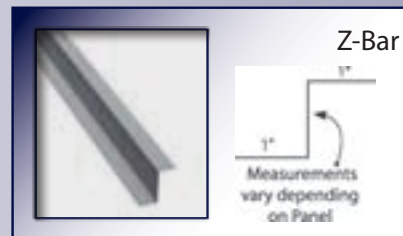
Rake



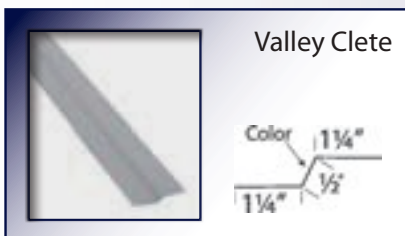
Chimney Flash



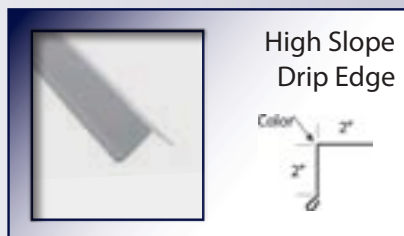
Low Slope Drip Edge



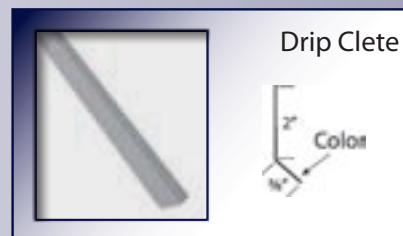
Z-Bar



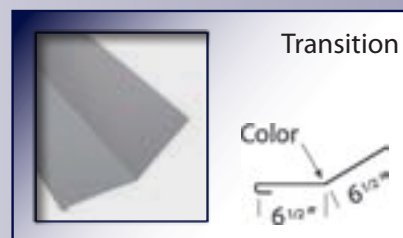
Valley Cleat



High Slope Drip Edge



Drip Cleat



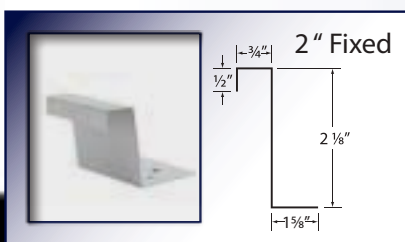
Transition

Custom Trim Available

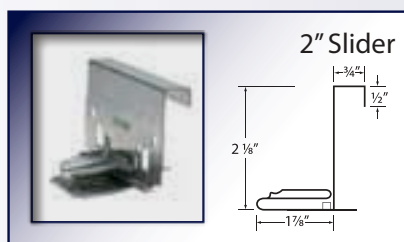
Custom trim is encouraged at Triad Corrugated Metal. Available in bare and painted steel, copper or aluminum and lengths from 8' to 20'.

Draw a sketch of the desired trim with dimensions, degree of slope and the finished side labeled and we'll create it for you.

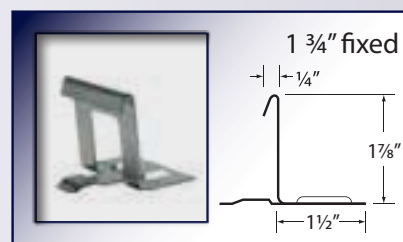
TRIMS



2" Fixed



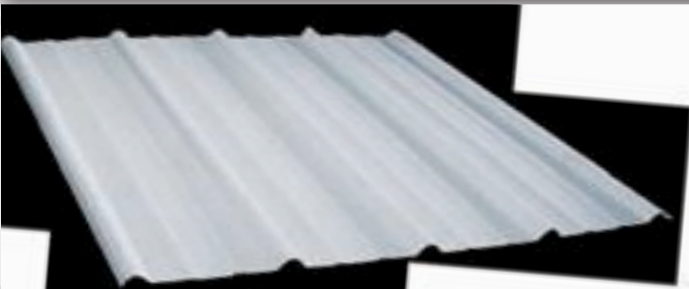
2" Slider



1 3/4" fixed

CLIPS

EXPOSED FASTENER PANELS



AG PANEL 12

R PANEL 14

5V PANEL 16

AG PANEL

AG Panel is a durable, weather-resistant roofing solution for agricultural and residential projects. The panels not only provide excellent protection against the elements and increase the life cycle of your roof but they lower the need for maintenance on your roof. AG Panels are a cost effective, high performance metal roofing system.



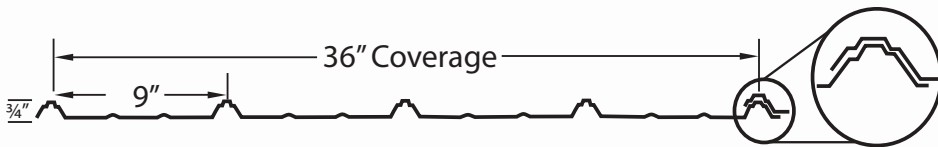
Did You Know...

When properly installed, a metal roofing system will withstand inclement weather (high winds, hail, snow and rain) better than any other roofing material. Metal easily sheds snow and ice and does not absorb water which can lead to cracking and rotting in the freeze-thaw cycling in other roofing materials.





- Installs over open framing or solid substrate
- Δ Cut to the inch
- Δ Minimum roof slope: 3:12
- Δ Self ventilating
- Δ Thru Fastened Panel System

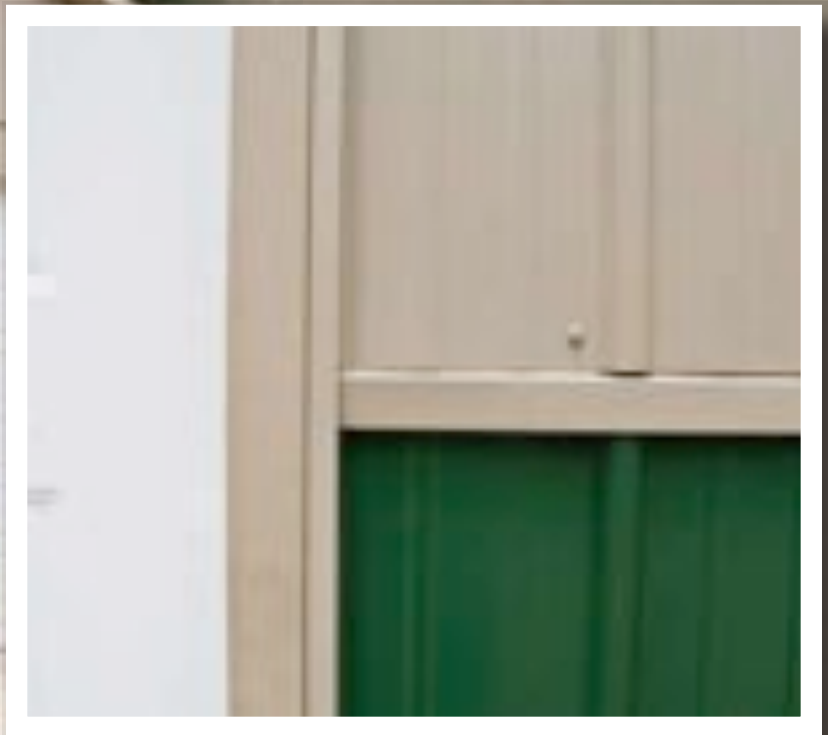


ACCESSORIES

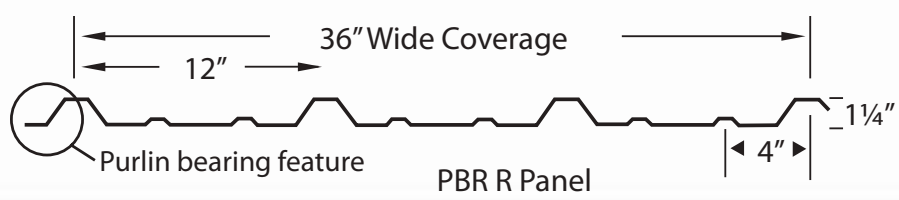
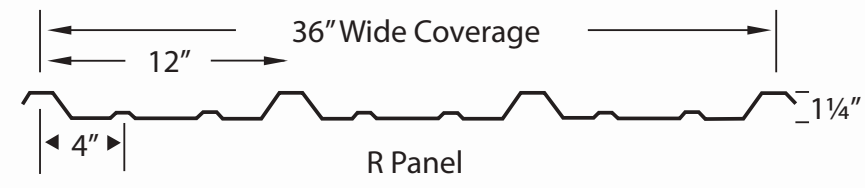
R PANEL

R Panel is a perfect fit for roofing and siding applications. The panels, commonly used in commercial applications, are lightweight and strong, allowing for easy installation and increasing the lifetime of your roof. An R Panel system from TCM gives you the flexibility to achieve the look you want with the advantages of metal roofing.



Did You Know... A metal roof can save you money on your A/C costs because it has a higher heat reflectivity than other roofing products like asphalt/fiberglass shingles, wood, tile, etc. During the summer it makes buildings cooler by efficiently reflecting away sunlight and reducing the amount of heat transmitted into the building. Likewise, it makes buildings warmer in the winter by reflecting inside heat from the underside of the roof back into the building. This good thermal reflectivity translates into energy savings by reducing cooling costs in the summer and heating costs in the winter.





- **Finishes:** Classic Sil-Poly & Premium Kynar
- **Metals:** Galvanized, Galvalume®
- **Gauges:** 26ga, & 24ga
- **Features:**
 - Δ Applies over open framing or solid substrate
 - Δ Cut to the inch
 - Δ Thru Fastened Panel System

ACCESSORIES



5V PANEL

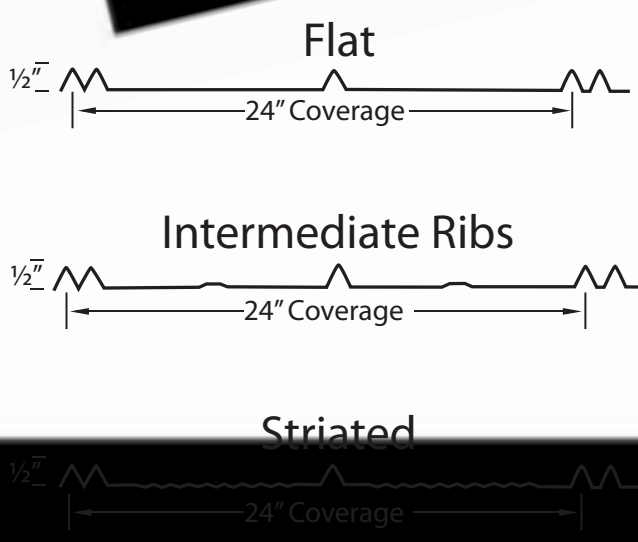
5V Panels are a simple, beautiful, strong choice for your residential and light commercial roofing needs. The classic design encourages use in a variety of projects, and the strength and durability ensure a long-lasting, low maintenance roof.



Did You Know...

Galvalume® coated steel roofing panels are protected by layers of metallic and polymer coatings. Industry studies have repeatedly shown them to outperform the corrosion resistance of other coated metals. They are available with warranties as long as 50 years.





- **Finishes:** Classic Sil-Poly & Premium Kynar
- **Metals:** Galvanized, Galvalume®, Copper and Aluminum
- Gauges:** 29ga, 26ga, & 24ga
- Features:**
 - Δ Applies over open framing or solid substrate
 - Δ Cut to the inch
 - Δ Minimum roof slope: 3:12
 - Δ Thru Fastened Panel System

ACCESSORIES



AG & 5V TRIM



Ridge Roll



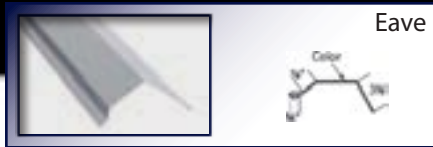
Valley



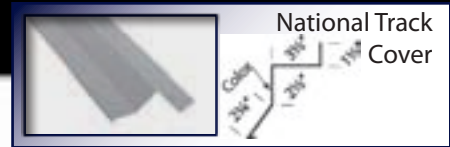
Cannonball Track Cover



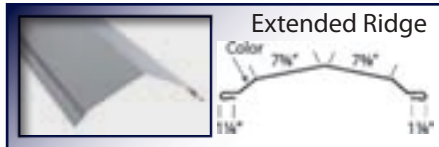
Ridge Cap



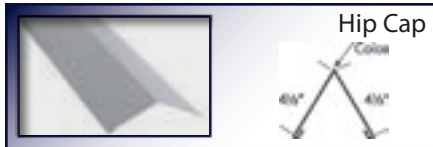
Eave



National Track Cover



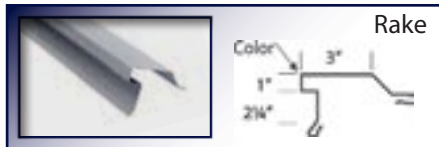
Extended Ridge



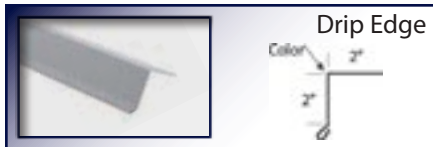
Hip Cap



Transition



Rake



Drip Edge



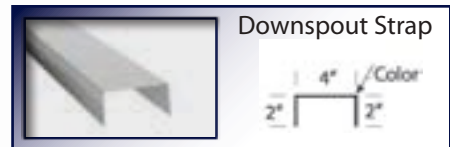
10\"/>



Fascia



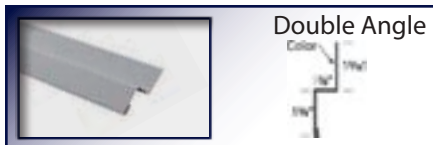
Base Angle



Downspout Strap



Gable



Double Angle



Gutter Hanger



Peak Cap



J-Channel



Gutter Downspout



Side Wall



Drip Cap



Gutter A



End Wall



Inside Corner



Gutter B



Chimney Flash



Corner



Gutter Endcap

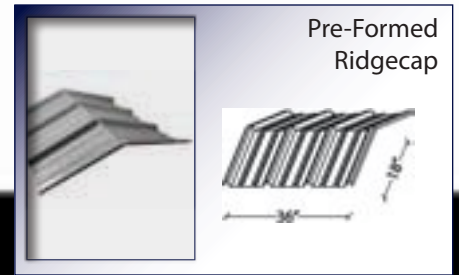
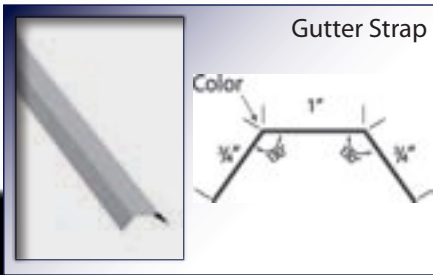
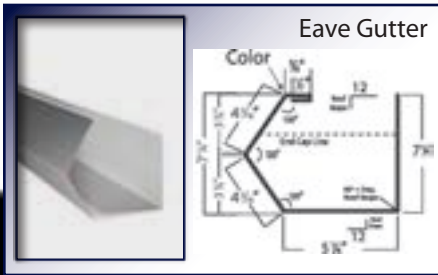
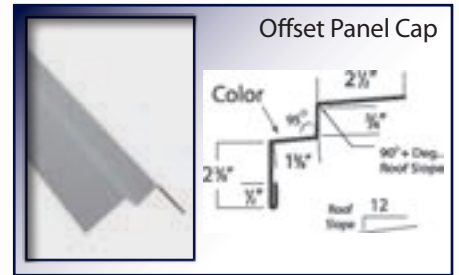
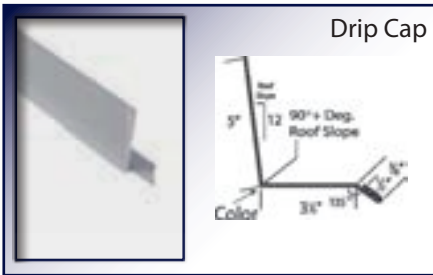
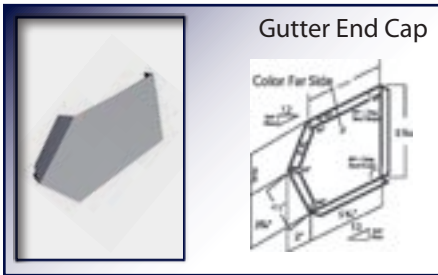
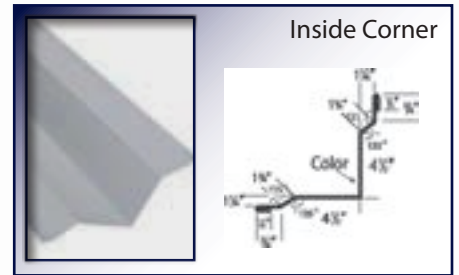
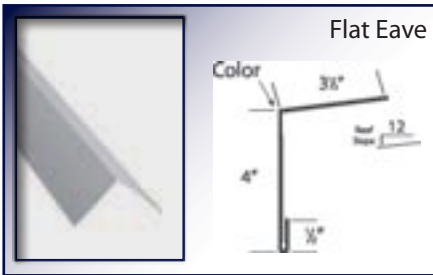
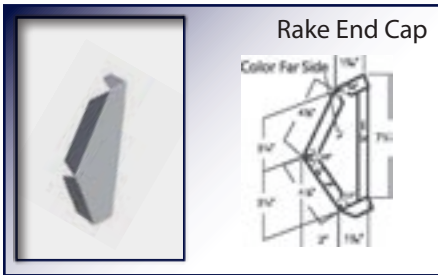
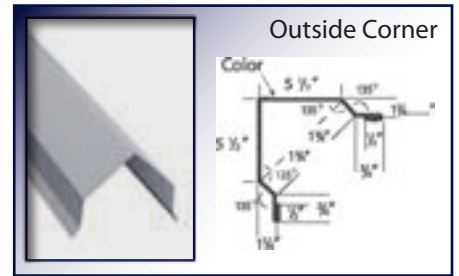
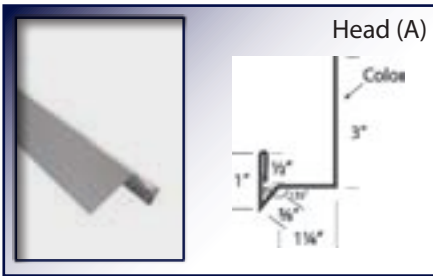
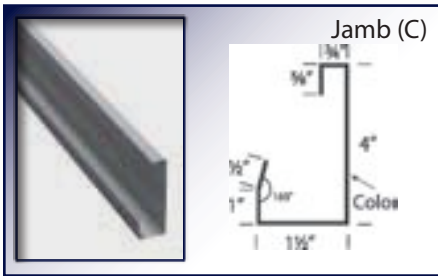
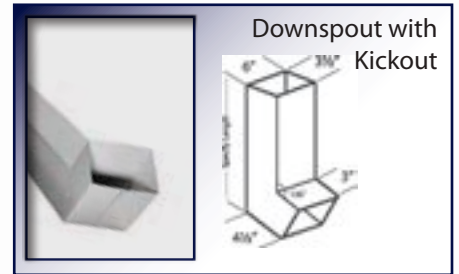
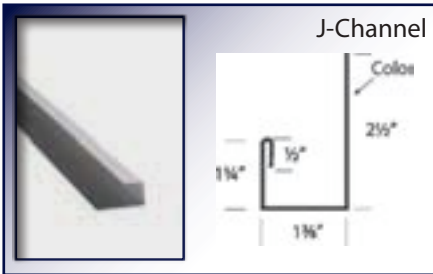
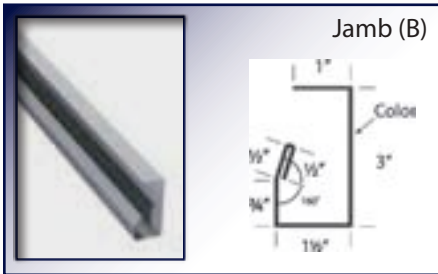
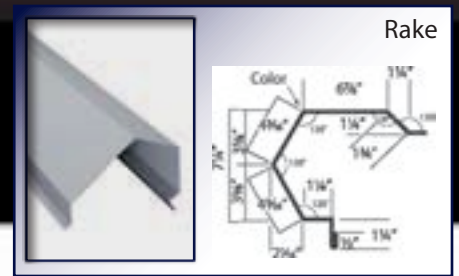
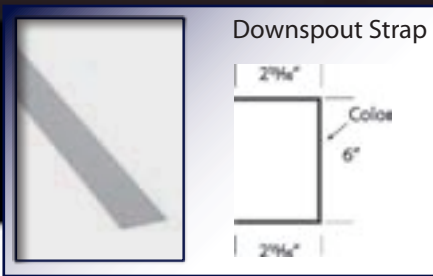
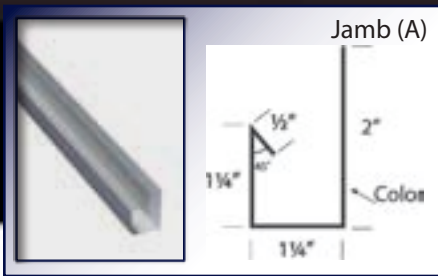


FJ Combo

Custom Trim Available

Custom trim is encouraged at Triad Corrugated Metal. Available in bare and painted steel, copper or aluminum and lengths from 8' to 20'. Just draw a sketch of the desired trim with dimensions, degree of angle and the finished side labeled and we'll create it for you.

R PANEL TRIM



COLORS & METALS

Classic Sil-Poly Available in 29 & 26 gauge	Solar Reflectivity
Light Stone	47%
Sierra Tan	41%
Clay	37%
Light Brown	*
Dark Brown	20%
Bronze	17%
Brite Red	29%
Country Red	30%
Berry	16%
Colonial Green	27%
Fern Green	13%
Forest Green	18%
Hawaiian Blue	24%
Cherokee Blue	*
Gallery Blue	12%
Brite White	64%
Polar White	56%
Light Gray	41%
Dark Gray	22%
Matte Black	21%
Glossy Black	*
Brite Yellow	60%

Premium Kynar Available in 26 & 24 gauge	Solar Reflectivity
Snowdrift White	67%
Stone White	56%
Bone White	58%
Almond	54%
Silver	44%
Champagne	44%
Sierra Tan	36%
Roman Bronze	33%
Copper Penny	36%
Terra Cotta	28%
Banner Red	37%
Red Clay	28%
Colonial Red	35%
Cordovan	34%
Mansard Brown	33%
Dark Bronze	32%
Cape Blue	41%
Slate Blue	32%
Pacific Blue	28%
Royal Blue *	*
Slate Gray	40%
Musket Gray	34%
Charcoal Gray	30%
Matte Black	29%
Aged Copper	40%
Seaport	30%
Teal Green	26%
Sage	32%
Classic Green	29%
Hartford Green	28%

Metals
Galvanized
Galvalume®
Copper
Aluminum
Painted Galvalume®

* Solar Reflectivity Not Available

CLASSIC SIL-POLY WARRANTY

Triad Corrugated Metal, Inc.

WeatherX™ 40 Year Warranty

Triad Corrugated Metal, Inc. warrants that under normal outdoor atmospheric conditions (which term excludes corrosive aggressive atmospheres such as those contaminated with chemical fumes, standing water or salt spray), our Valspar WeatherX™ Siliconized Polyester Coil Coatings on the Galvalume® or Galvalume® panel (including manufactured trims and flashings) sold to you (Buyer), by Triad Corrugated Metal, Inc. (Seller), will meet the following specifications:

Within the Continental United States, Alaska, and Canada:

- Film Integrity:** Film integrity is warranted for a period of 40 years from the date of application of the paint, WeatherX exhibits flaking or peeling (loss of adhesion) when viewed from a distance of 10 meters using an unaided naked eye. Minute fracturing, which may occur in proper fabrication of the building parts, is not a covered Warranty Condition. Failure due to substrate corrosion is not a covered Warranty Condition.
- Chalk Rating:** Within 30 years from the date of installation of the panels, WeatherX: Chalks in excess of ASTM D-4214-98 method A D659 number six (6) rating on horizontally installed (roofing) panels and a number eight (8) rating on vertically installed (sidewall) panels, when properly maintained as described herein.
- Fade Rating:** Within 30 years from the date of installation of the panels, WeatherX: Changes color more than seven (7.0) Hunter delta-E units on horizontally installed (roofing) panels and five (5.0) Hunter delta-E units on vertically installed (sidewall) panels as determined by ASTM method D-2244-02. Color change shall be measured on an exposed painted surface that has been cleaned of surface soils and chalk, and the corresponding values measured on the original or unexposed painted surface. Color changes may not be uniform on surfaces that are not equally exposed to the sun and elements and Valspar does not warrant that color changes will be uniform.

This warranty is subject to the following conditions:

- This Warranty applies if any of the following Warranty Conditions occurs:
 - Within 40 years from the date of application of the paint, WeatherX exhibits flaking or peeling (loss of adhesion) when viewed from a distance of 10 meters using an unaided naked eye. Minute fracturing, which may occur in proper fabrication of the building parts, is not a covered Warranty Condition. Failure due to substrate corrosion is not a covered Warranty Condition.
 - Within 30 years from the date of installation of the panels, WeatherX:
 - Chalks in excess of ASTM D-4214-98 method A D659 number six (6) rating on horizontally installed (roofing) panels and a number eight (8) rating on vertically installed (sidewall) panels, when properly maintained as described herein, and
 - Changes color more than seven (7.0) Hunter delta-E unit on horizontally installed (roofing) panels and five (5.0) Hunter delta-E units on vertically installed (sidewall) panels as determined by ASTM method D-2244-02. Color change shall be measured on an exposed painted surface that has been cleaned of surface soils and chalk, and the corresponding values measured on the original or unexposed painted surface. Color changes may not be uniform on surfaces that are not equally exposed to the sun and elements and Valspar does not warrant that color changes will be uniform.
- If a Warranty condition occurs and the other requirements of this Warranty are met, Valspar will supply you with the following Warranty benefits:

Valspar will provide or pay for the material reasonably necessary to repaint, repair or replace, at our option, the metal panels showing the Warranty Conditions. The Warranty Benefits shall not exceed the original purchase price of the affected metal panels or the remedy provided in any other warranty provided to the building owner, whichever is less. This Warranty will continue to apply to any metal panels that were repainted, repaired or replaced due to a Warranty Condition, but only for the unexpired portion of the Warranty period applicable to the original part.
- Valspar cannot control the circumstances of application. Therefore, this Limited Warranty applies only when a minimum of 0.7 mils of WeatherX coil coatings are properly applied (according to the application instructions in Valspar's then current detail sheet) to a properly pre-treated and primed substrate (HDG Steel (G90), Galvalume, and Aluminum) that is fabricated into commercial or industrial building parts. Valspar does not warrant the use of WeatherX coil coatings with non-Valspar coatings. Warranty Benefits are available only for all-Valspar coating systems. Also, because some colors may not meet our standards, Valspar will inform you in writing at the time of color matching if the color you have selected is not an approved color.
- To receive Warranty Benefits for a Warranty Condition, the building owner or you must:
 - Send written notice of the Warranty Condition within thirty days to: Vice President, Coil & Extrusion, the Valspar Corporation, 901 N. Greenwood Avenue, Kankakee, IL 60901.
 - Provide access to the affected panels and site.
 - Assist us as necessary in determining the exact cause of failure.
 - Provide such documentation as we shall request to confirm the Warranty Condition, including records sufficient to identify the batch number and application date of the WeatherX coating involved; and production records and quality control records from your coater showing compliance with our application specifications and the results of tests required by these specifications.

- Acts of God, falling objects, explosions, or fire;
 - Harmful fumes or foreign substances in the atmosphere, standing water or salt spray;
 - Failure to apply a minimum dry film thickness of 0.7 mils of the WeatherX coil coatings to a properly pre-treated and primed substrate in accordance with our specifications and instructions as outlined on our then-current published product data sheets;
 - Improper treatment or defects in the substrate metal or in its fabrication;
 - Failure to store or install products coated with WeatherX in a way that allows for adequate circulation;
 - Failures or damage resulting from edge corrosion or failure of the metal substrate;
 - Contact with animals or animal waste;
 - Mishandling of WeatherX or of any substrate coated with it, including abuse, alteration, modification, improper use, or storage contrary to our written instructions.
 - Condensation attributable to improper packaging, handling, shipping, processing and/or installation; or
 - Other circumstances or occurrences beyond Valspar's control
- No Warranty is provided for WeatherX on any substrate that is subject to sea spray or installed on property located 1,500 or fewer meters from a saltwater environment.
 - If chrome free pretreatment is used, warranty for adhesion must be validated by sample testing of production material. Material must pass fifteen (15) minute boiling water/crosshatch adhesion with no tape off.
 - Coil material should be used within 180 days of coating. Again varies with the substrate, pretreatment and coatings, but in all cases will affect the coatings flexibility and subsequent performance. Storage conditions should be controlled to avoid potential forming and performance problems. Extreme changes in temperature, humidity levels and exposure to moisture can all have an adverse affect on material performance. Long storage times before forming may affect your warranty. The slow changes in properties over time are not a concern once the material is formed.
 - This warranty applies only to building parts installed on buildings within the Continental United States, Alaska and Canada. This Warranty will automatically expire upon any change or transfer of ownership of the property on which the metal coated with WeatherX is originally installed.
 - This is our only warranty concerning WeatherX Siliconized Polyester coil coatings. Except for this Warranty, WE MAKE NO WARRANTIES, EXPRESS OR IMPLIED AND DISCLAIM ALL IMPLIED WARRANTIES INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR FREEDOM FROM PATENT INFRINGEMENT. VALSPAR WILL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES. We have no other liability with respect to WeatherX Siliconized Polyester coil coatings, whether based on warranty, negligence or any other legal theory.
 - This is our only warranty. It lists all of Valspar's obligations regarding WeatherX Siliconized Polyester coil coatings purchased by you on or after the effective date shown below. It is only your benefit and you may not assign it to any other person or entity. Valspar makes no warranty to your customers, and is not responsible for any warranty you choose to provide to your customers concerning the performance of WeatherX Siliconized Polyester coil coatings. Valspar may change or discontinue this Warranty by providing you with 30 days advance written notice. Any changes will apply only to WeatherX Siliconized Polyester coil coatings sold to you after the notice period expires.

If project requires a material/finish warranty to be issued, completely fill out information below and submit to Triad Corrugated Metal, Inc. customer.

Project Name: _____

Project Address: _____

Owner Name: _____

Installer Name: _____

TCM Invoice: _____

TCM Rep. Signature: _____

PREMIUM KYNAR WARRANTY

Triad Corrugated Metal, Inc.

Fluropon® Limited Warranty (also known as KYNAR 500®)

Triad Corrugated Metal, Inc. warrants that under normal outdoor atmospheric conditions (which term excludes corrosive aggressive atmospheres such as those contaminated with chemical fumes, standing water or salt spray), our Fluropon® Coil Coatings on the Galvanized or Galvalume® panel (including manufactured trims and flashings) sold to you (Buyer), by Triad Corrugated Metal, Inc (Seller), will meet the following specifications:

Within the Continental United States, Alaska, and Canada:

- Film Integrity:** Film integrity is warranted for a period of 40 years from the date of application of the paint, Fluropon® exhibits flaking or peeling (loss of adhesion) when viewed from a distance of 10 meters using an unaided naked eye. Minute fracturing, which may occur in proper fabrication of the building parts, is not a covered Warranty Condition. Failure due to substrate corrosion is not a covered Warranty Condition.
- Chalk Rating:** Within 30 years from the date of installation of the panels, Fluropon®: Chalks in excess of ASTM D-4214-98 method A D659 number eight (8) rating on panels, when properly maintained as described herein.
- Fade Rating:** Within 30 years from the date of installation of the panels, Fluropon®: Changes color more than five (5.0) Hunter delta-E units on panels as determined by ASTM method D-2244-02. Color change shall be measured on an exposed painted surface that has been cleaned of surface soils and chalk, and the corresponding values measured on the original or unexposed painted surface. Color changes may not be uniform on surfaces that are not equally exposed to the sun and elements and Valspar does not warrant that color changes will be uniform.

This warranty is subject to the following conditions:

- This Warranty applies if any of the following Warranty Conditions occurs:
 - Within 40 years from the date of application of the paint, Fluropon® exhibits flaking or peeling (loss of adhesion when viewed from a distance of 10 meters using an unaided naked eye. Minute fracturing, which may occur in proper fabrication of the building parts, is not a covered Warranty Condition. Failure due to substrate corrosion is not a covered Warranty Condition.
 - Within 30 years from the date of installation of the panels, Fluropon®:
 - Chalks in excess of ASTM D-4214-98 method A D659 number eight (8) rating on panels, when properly maintained as described herein, and
 - Changes color more than five (5.0) Hunter delta-E units on panels as determined by ASTM method D-2244-02. Color change shall be measured on an exposed painted surface that has been cleaned of surface soils and chalk, and the corresponding values measured on the original or unexposed painted surface. Color changes may not be uniform on surfaces that are not equally exposed to the sun and elements and Valspar does not warrant that color changes will be uniform
- If a Warranty condition occurs and the other requirements of this Warranty are met, Valspar will supply you with the following Warranty benefits:

Valspar will provide or pay for the material reasonably necessary to repaint, repair or replace, at our option, the metal panels showing the Warranty Conditions. The Warranty Benefits shall not exceed the original purchase price of the affected metal panels or the remedy provided in any other warranty provided to the building owner, whichever is less. This Warranty will continue to apply to any metal panels that were repainted, repaired or replaced due to a Warranty Condition, but only for the unexpired portion of the Warranty period applicable to the original part.
- Valspar cannot control the circumstances of application. Therefore, this Limited Warranty applies only when a minimum of 0.7 mils of Fluropon® coil coatings are properly applied (according to the application instructions in Valspar's then current detail sheet) to a properly pre-treated and primed substrate (HDG Steel (G90), Galvalume, and Aluminum) that is fabricated into commercial or industrial building parts. Valspar does not warrant the use of Fluropon® coil coatings with non-Valspar coatings. Warranty Benefits are available only for all-Valspar coating systems. Also, because some colors may not meet our standards, Valspar will inform you in writing at the time of color matching if the color you have selected is not an approved color.
- To receive Warranty Benefits for a Warranty Condition, the building owner or you must:
 - Send written notice of the Warranty Condition within thirty days to: Vice President, Coil & Extrusion, the Valspar Corporation, 901 N. Greenwood Avenue, Kankakee, IL 60901.
 - Provide access to the affected panels and site.
 - Assist us as necessary in determining the exact cause of failure.
 - Provide such documentation as we shall request to confirm the Warranty Condition, including records sufficient to identify the batch number and application date of the Fluropon® coating involved; and production records and quality control records from your coater showing compliance with our application specifications and the results of tests required by those specifications.

- Acts of God, falling objects, explosions, or fire;
 - Harmful fumes or foreign substances in the atmosphere, standing water or salt spray;
 - Failure to apply a minimum dry film thickness of 0.7 mils of the Fluropon® coil coatings to a properly pre-treated and primed substrate in accordance with our specifications and instructions as outlined on our then-current published product data sheets;
 - Improper treatment or defects in the substrate metal or in its fabrication;
 - Failure to store or install products coated with Fluropon® in a way that allows for adequate circulation;
 - Failures or damage resulting from edge corrosion or failure of the metal substrate;
 - Contact with animals or animal waste;
 - Mishandling of Fluropon® or of any substrate coated with it, including abuse, alteration, modification, improper use, or storage contrary to our written instructions.
 - Condensation attributable to improper packaging, handling, shipping, processing and/or installation; or
 - Other circumstances or occurrences beyond Valspar's control
- No Warranty is provided for Fluropon® on any substrate that is subject to sea spray or installed on property located 1,500 or fewer meters from a saltwater environment.
 - Coil material should be used within 180 days of coating. Again varies with the substrate, pretreatment and coatings, but in all cases will affect the coatings flexibility and subsequent performance. Storage conditions should be controlled to avoid potential forming and performance problems. Extreme changes in temperature, humidity levels and exposure to moisture can all have an adverse affect on material performance. Long storage times before forming may affect your warranty. The slow changes in properties over time are not a concern once the material is formed.
 - This warranty applies only to building parts installed on buildings within the Continental United States, Alaska and Canada. This Warranty will automatically expire upon any change or transfer of ownership of the property on which the metal coated with Fluropon® is originally installed.
 - This is our only warranty concerning Fluropon® coil coatings. Except for this Warranty, WE MAKE NO WARRANTIES, EXPRESS OR IMPLIED AND DISCLAIM ALL IMPLIED WARRANTIES INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR FREEDOM FROM PATENT INFRINGEMENT. VALSPAR WILL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES. We have no other liability with respect to Fluropon® coil coatings, whether based on warranty, negligence or any other legal theory.
 - This is our only warranty. It lists all of Valspar's obligations regarding Fluropon® coil coatings purchased by you on or after the effective date shown below. It is only your benefit and you may not assign it to any other person or entity. Valspar makes no warranty to your customers, and is not responsible for any warranty you choose to provide to your customers concerning the performance of Fluropon® coil coatings. Valspar may change or discontinue this Warranty by providing you with 30 days advance written notice. Any changes will apply only to Fluropon® coil coatings sold to you after the notice period expires.

If project requires a material/finish warranty to be issued, completely fill out information below and submit to Triad Corrugated Metal, Inc. customer.

Project Name: _____

Project Address: _____

Owner Name: _____

Installer Name: _____

TCM Invoice: _____

TCM Rep. Signature: _____

Date: _____

BARE GALVALUME® WARRANTY

Triad Corrugated Metal, Inc.

BARE GALVALUME® 30 YEAR LIMITED WARRANTY

Triad Corrugated Metal, Inc. warrants the panels will perform in accordance to the following Bare GALVALUME® Warranty: Triad Corrugated Metals hot dipped aluminum-zinc alloy coated GALVALUME® sheet steel sold for use as unpainted steel building roofing and siding panels, if erected within the United States WILL NOT rupture, fail structurally, or perforate within a period of 30 years from date of shipment due to exposure to normal atmospheric corrosion.

THIS WARRANTY DOES NOT APPLY to sheets exposed at any time to corrosive or aggressive atmospheric conditions, including but not limited to:

1. Areas subject to saltwater marine atmospheres or to constant spraying of either salt or fresh water.
2. Areas subject to fallout or exposure to corrosive chemicals, fumes, ash, cement dust, or animal waste.
3. Areas subject to water run-off from lead or copper flashings or areas in metallic contact with lead or copper.
4. Conditions/circumstances where corrosive fumes or condensates are generated or released inside the building.

THIS WARRANTY DOES NOT APPLY IN THE EVENT OF:

- A. Degree of bending less than 2T for sheet gauges up to 0.030 in. and degree of bending less than 4T for sheet gauges 0.031 in. and thicker.
- B. Slopes of roof or sections of the roof flatter than 1/4:12.
- C. Mechanical, chemical or other damage sustained during shipment, storage, forming, fabrication, during or after erection.
- D. Forming which incorporates severe reverse bending or which subjects coating to alternate compression and tension.
- E. Failure to provide free drainage of water, including internal condensation, from overlaps and all other surfaces of the sheets or panels.
- F. Failure to remove debris from overlaps and all other surfaces of the sheets or panels.
- G. Damage caused to the metallic coating by improper scouring or cleaning procedures.
- H. Deterioration of the panels caused by contact with green, wet, or pressure-treated lumber or wet storage stain caused by water damage or condensation.
- I. Presence of damp insulation, soil, vegetation or other corrosive materials in contact with or close proximity to the panel.
- J. This warranty does not apply in the event of deterioration to the panels caused directly or indirectly by the panel contact with fasteners. Selection of suitable long lasting fasteners to be used with GALVALUME® roofing and siding panels' rests solely with the buyer.
- K. Damage to the GALVALUME® coating caused by cascading water.
- L. Damage caused by cutting panels with an abrasive blade saw or other means which damages the GALVALUME® coating.
- M. Damages to the coated Metal caused by contact with, or water run-off from, lead, copper graphite or dissimilar material. This includes A/C condensation.

1. Claim Period and Duties of Buyer in Presenting Claims. Claims for all defects must be made within the warranty period and within thirty (30) days after Buyer discovers the nonconforming panel, and Buyer must give Seller a reasonable opportunity to inspect the material. As a condition precedent to Seller's liability hereunder, Buyer must present, with his claim, records to enable Seller to establish the order number, date of shipment and the date of installation for the claimed nonconforming panel. These records must be duly authenticated, be made in the ordinary course of business and be contemporaneous with the events noted therein. Buyer shall also present evidence that establishes any claimed nonconformance was due to a breach of the warranty stated herein.

2. Amount of Liability. Seller's liability for breach of this warranty shall be limited to repairing or replacing of the nonconforming panel utilizing such normal materials, methods and workmanship necessary to provide the stipulated performance remaining under the original warranty for the nonconforming panel. Seller shall have the sole discretion to determine which of the above methods will be used to fulfill its obligation. Seller shall have no liability or obligation whatsoever if payment in full has not been made for any materials. Moreover, if seller elects to supply replacement panels, Seller shall have no liability for labor costs associated with removing defective panels or replacing same with new panels. Seller's warranties apply only to panels which have been exposed to normal weather and atmospheric conditions, is limited to the aforementioned defects or failures, and does not apply to defects or failures caused by acts of God, falling objects, material, improper assembly, external forces, vibrations, fire, vandalism, deliberate destruction or damage, riots, civil commotions, acts of war, radiation or harmful gases or fumes, excessive salt atmospheres, chemicals, and foreign substances (i.e., abnormal quantities of sand or dirt particles) in the air or atmosphere, stored or installed in a way which allows contact with animal and/or animal waste, and regardless of roof or sidewall pitch, installation must provide for proper drainage so as not to hold any water.

This warranty does not cover failures resulting from edge corrosion (beyond the limits set forth above), or if failure is caused by failure of the metal substrate (beyond the limits set forth above), or conversion coating material. This warranty does not cover occurrences of wet storage stains. This warranty is prorated covering film integrity. Seller shall not be liable for any special or consequential damages except as may be expressly set out herein. Without limiting the generality of the foregoing, this warranty pertains to product only, and Seller shall not be liable for damages for or relating to labor or loss of use of structure or damage to contents of structure.

3. Transfers, Representations and Assignments. This warranty is extended to Buyer as the original purchaser from Seller and is nontransferable and nonassignable even if Seller's products are sold or otherwise transferred. No rights against Seller shall be created by a transfer or assignment, nor shall any rights against Seller survive any transfer or assignment. Buyer, or its agents or representatives, shall not claim, represent or imply nor permit its customers, distributors, applicators or contractors to claim, represent or imply that this warranty extends or is available to parties other than Buyer, and to the limit of its legal rights to do so, Buyer shall cause any party to cease and desist in any such misrepresentation. This condition shall constitute a material term of this warranty and its violation by Buyer shall excuse Seller from its obligations hereunder.

4. Termination. Seller reserves the right to terminate or modify this warranty except with respect to orders which it has already accepted upon the giving of written notice thereof.

5. Waiver of Modification of Seller's Rights. No terms or conditions, other than those stated herein, and no agreement or understanding oral or written, and no course of conduct or performance, in anyway purporting to modify this warranty or to waive Seller's rights hereunder, shall be binding on Seller unless the same be clearly described in a writing that expressly refers to this warranty and expressly refers to having such effect upon this warranty and is signed by an authorized representative of Seller. Moreover, additional liabilities of or limitations upon the rights and remedies of Seller contained in such documents as purchase order acknowledgments which may subsequently be exchanged between parties shall have no force upon this warranty. All proposals, negotiations and representations, if any, made prior to or with reference hereto are merged herein.

6. Materiality and General Obligation of Buyer. All obligations of and conditions imposed on Buyer under this warranty shall be deemed material terms of this warranty and any violation by Buyer shall excuse Seller from Seller's obligation hereunder.

7. Embossed Products. Seller makes no warranties regarding any embossed product and no warranties of such product may be implied.

8. Effective Date. The effective date of this warranty shall be the date on which Buyer takes possession of Seller's product.

9. Merger or Other Warranties, Including Merchantability. All other warranties, promises or affirmations of fact including warranties of merchantability and of fitness for a particular purpose are deemed to be merged into the terms of this warranty. The conditions of liability, rights, obligations, and remedies of the parties relating to claims arising from the nonconforming panel shall be governed exclusively by the terms set forth above.

10. This warranty will apply only to the Bare Galvalume® finish and used on property within the United States (including Hawaii and Alaska), Canada, and Mexico (north of the 15° parallel of latitude in the northern hemisphere). Only film integrity applies south of the 15° parallel. Consult your Triad Corrugated Metal, Inc. representative for more information.

EXCEPT AS EXPRESSLY SET OUT HEREIN, TRIAD CORRUGATED METAL, INC. MAKES NO WARRANTY, EITHER EXPRESS OR IMPLIED AND DISCLAIMS ANY AND ALL INCLUDING, BUT NOT LIMITED TO ANY EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY, SUITABILITY, CONDITION, FITNESS, QUALITY, FITNESS FOR A PARTICULAR PURPOSE, ABSENCE OF PATENT OR LATENT DEFECTS IN MATERIAL OR WORKMANSHIP, COMPLIANCE WITH THE REQUIREMENT OF ANY LAW, REGULATIONS, SPECIFICATIONS OR CONTRACTS, OR ANY OTHER OBLIGATION ON THE PART OF TRIAD CORRUGATED METAL, INC.

Agreed Procedure for Determining Conformation with Specification

For the purpose of determining whether an exposed panel meets the standards set forth above, all chalk, dirt and other film deposits on the area of the panel to be tested for color must be removed by washing prior to evaluation.

To wash the test area, use a pad of 28/24 mesh cheesecloth and distilled water and a mild detergent cleaner. Wet the cheesecloth thoroughly with the cleaning solution and rub it, using moderate hand pressure, over an area of the panel approximately 4" x 4". Care must be taken to avoid any scratching, burnishing or other physical alteration of the coated surfaces.

After washing, as described above, flush off the test area with distilled water and allow to air dry.

Failure to keep condensation or moisture from nested materials may result in damage or wet storage stain, voiding manufacturer's guarantee.

If project requires a material/finish warranty to be issued, completely fill out information below and submit to Triad Corrugated Metal, Inc. customer.

Project Name: _____

Project Address: _____

Owner Name: _____

Installer Name: _____

TCM Invoice: _____ Color: BARE GALVALUME®

TCM Rep. Signature: _____

BARE GALVANIZED WARRANTY

Triad Corrugated Metal, Inc.

G90 GALVANIZED 20 YEAR LIMITED WARRANTY

Triad Corrugated Metals hot dipped G90 GALVANIZED sheet steel sold for use as unpainted steel building roofing and siding panels, if erected within the United States WILL NOT rupture, fail structurally, or perforate within a period of 20 years from date of shipment due to exposure to normal atmospheric corrosion.

THIS WARRANTY DOES NOT APPLY to sheets exposed at any time to corrosive or aggressive atmospheric conditions, including but not limited to:

1. Areas subject to saltwater marine atmospheres or to constant spraying of either salt or fresh water.
2. Areas subject to fallout or exposure to corrosive chemicals, fumes, ash, cement dust, or animal waste.
3. Areas subject to water run-off from lead or copper flashings or areas in metallic contact with lead or copper.
4. Conditions/circumstances where corrosive fumes or condensates are generated or released inside the building.

THIS WARRANTY DOES NOT APPLY IN THE EVENT OF:

- A. Mechanical, chemical or other damage sustained during shipment, storage, forming, fabrication, during or after erection.
- B. Failure to provide free drainage of water, including internal condensation, from overlaps and all other surfaces of the sheets or panels.
- C. Failure to remove debris from overlaps and all other surfaces of the sheets or panels.
- D. Deterioration of the panels caused by contact with green, wet, or pressure-treated lumber or wet storage stain caused by water damage or condensation.
- E. Presence of damp insulation, soil, vegetation or other corrosive materials in contact with or close proximity to the panel.

1. Claim Period and Duties of Buyer in Presenting Claims. Claims for all defects must be made within the warranty period and within thirty (30) days after Buyer discovers the nonconforming panel, and Buyer must give Seller a reasonable opportunity to inspect the material. As a condition precedent to Seller's liability hereunder, Buyer must present, with his claim, records to enable Seller to establish the order number, date of shipment and the date of installation for the claimed nonconforming panel. These records must be duly authenticated, be made in the ordinary course of business and be contemporaneous with the events noted therein. Buyer shall also present evidence that establishes any claimed nonconformance was due to a breach of the warranty stated herein.

2. Amount of Liability. Seller's liability for breach of this warranty shall be limited to repairing or replacing of the nonconforming panel utilizing such normal materials, methods and workmanship necessary to provide the stipulated performance remaining under the original warranty for the nonconforming panel. Seller shall have the sole discretion to determine which of the above methods will be used to fulfill its obligation. Seller shall have no liability or obligation whatsoever if payment in full has not been made for any materials. Moreover, if seller elects to supply replacement panels, Seller shall have no liability for labor costs associated with removing defective panels or replacing same with new panels. Seller's warranties apply only to panels which have been exposed to normal weather and atmospheric conditions, is limited to the aforementioned defects or failures, and does not apply to defects or failures caused by acts of God, falling objects, misuse, improper assembly, external forces, explosions, fire, vandalism, deliberate destruction or damage, riots, civil commotions, acts of war, radiation or harmful gases or fumes, excessive salt atmospheres, chemicals, and foreign substances (i.e., abnormal quantities of sand or dirt particles) in the air or atmosphere, stored or installed in a way which allows contact with animal and/or animal waste, and regardless of roof or sidewall pitch, installation must provide for proper drainage so as not to hold any water. This warranty does not cover failures resulting from edge corrosion (beyond the limits set forth above), or if failure is caused by failure of the metal substrate (beyond the limits set forth above), or conversion coating material. This warranty does not cover occurrences of wet storage stains. This warranty is prorated covering film integrity. Seller shall not be liable for any special or consequential damages except as may be expressly set out herein. Without limiting the generality of the foregoing, this warranty pertains to product only, and Seller shall not be liable for damages for or relating to labor or loss of use of structure or damage to contents of structure.

3. Transfers, Representations and Assignments. This warranty is extended to Buyer as the original purchaser from Seller and is nontransferable and nonassignable even if Seller's products are sold or otherwise transferred. No rights against Seller shall be created by a transfer or assignment, nor shall any rights against Seller survive any transfer or assignment. Buyer, or its agents or representatives, shall not claim, represent or imply nor permit its customers, distributors, applicators or contractors to claim, represent or imply that this warranty extends or is available to parties other than Buyer, and to the limit of its legal rights to do so, Buyer shall cause any party to cease and desist in any such misrepresentation. This condition shall constitute a material term of this warranty and its violation by Buyer shall excuse Seller from its obligations hereunder.

4. **Termination.** Seller reserves the right to terminate or modify this warranty except with respect to orders which it has already accepted upon the giving of written notice thereof.
5. **Waiver of Modification of Seller's Rights.** No terms or conditions, other than those stated herein, and no agreement or understanding oral or written, and no course of conduct or performance, in anyway purporting to modify this warranty or to waive Seller's rights hereunder, shall be binding on Seller unless the same be clearly described in a writing that expressly refers to this warranty and expressly refers to having such effect upon this warranty and is signed by an authorized representative of Seller. Moreover, additional liabilities of or limitations upon the rights and remedies of Seller contained in such documents as purchase order acknowledgments which may subsequently be exchanged between parties shall have no force upon this warranty. All proposals, negotiations and representations, if any, made prior to or with reference hereto are merged herein.
6. **Materiality and General Obligation of Buyer.** All obligations of and conditions imposed on Buyer under this warranty shall be deemed material terms of this warranty and any violation by Buyer shall excuse Seller from Seller's obligation hereunder.
7. **Embossed Products.** Seller makes no warranties regarding any embossed product and no warranties of such product may be implied.
8. **Effective Date.** The effective date of this warranty shall be the date on which Buyer takes possession of Seller's product.
9. **Merger or Other Warranties, Including Merchantability.** All other warranties, promises or affirmations of fact including warranties of merchantability and of fitness for a particular purpose are deemed to be merged into the terms of this warranty. The conditions of liability, rights, obligations, and remedies of the parties relating to claims arising from the nonconforming panel shall be governed exclusively by the terms set forth above.
10. This warranty will apply only to the G90 Galvanized finish and used on property within the United States (including Hawaii and Alaska), Canada, and Mexico (north of the 15° parallel of latitude in the northern hemisphere). Only film integrity applies south of the 15° parallel. Consult your Triad Corrugated Metal, Inc. representative for more information.

EXCEPT AS EXPRESSLY SET OUT HEREIN, TRIAD CORRUGATED METAL, INC. MAKES NO WARRANTY, EITHER EXPRESS OR IMPLIED AND DISCLAIMS ANY AND ALL INCLUDING, BUT NOT LIMITED TO ANY EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY, SUITABILITY, CONDITION, FITNESS, QUALITY, FITNESS FOR A PARTICULAR PURPOSE, ABSENCE OF PATENT OR LATENT DEFECTS IN MATERIAL OR WORKMANSHIP, COMPLIANCE WITH THE REQUIREMENT OF ANY LAW, REGULATIONS, SPECIFICATIONS OR CONTRACTS, OR ANY OTHER OBLIGATION ON THE PART OF TRIAD CORRUGATED METAL, INC.

Agreed Procedure for Determining Conformation with Specification

For the purpose of determining whether an exposed panel meets the standards set forth above, all chalk, dirt and other film deposits on the area of the panel to be tested for color must be removed by washing prior to evaluation.

To wash the test area, use a pad of 28/24 mesh cheesecloth and distilled water and a mild detergent cleaner. Wet the cheesecloth thoroughly with the cleaning solution and rub it, using moderate hand pressure, over an area of the panel approximately 4" x 4". Care must be taken to avoid any scratching, burnishing or other physical alteration of the coated surfaces.

After washing, as described above, flush off the test area with distilled water and allow to air dry.

Failure to keep condensation or moisture from nested materials may result in damage or wet storage stain, voiding manufacturer's guarantee.

If project requires a material/finish warranty to be issued, completely fill out information below and submit to Triad Corrugated Metal, Inc. customer.

Project Name: _____

Project Address: _____

Owner Name: _____

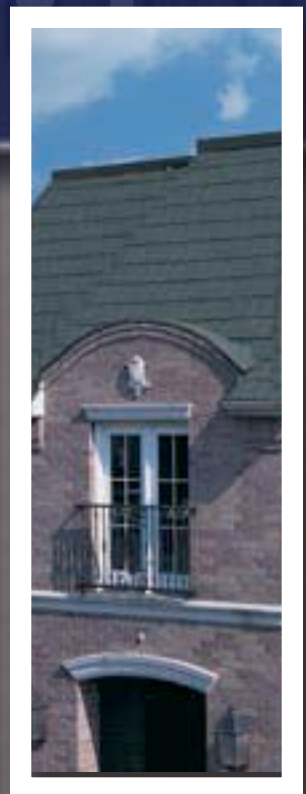
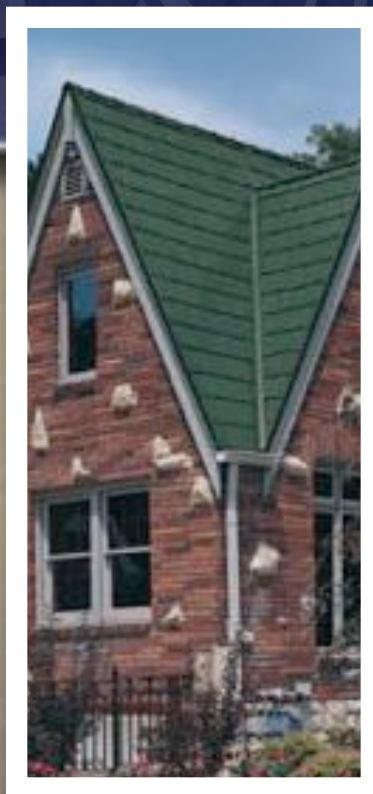
Installer Name: _____

TCM Invoice: _____ Color: **G90 GALVANIZED**

TCM Rep. Signature: _____

Date: _____

STEEL SHINGLES



CONTEMPORARY PROTECTION

G-90 Steel Construction

Recognized as the industry standard.

Kynar 500® / Hylar 5000® Finish

Resists fading and chalking.

Perfect for Reroofing Applications

Can be installed over up to two layers of asphalt shingles.*

Better for the Environment

100% recyclable and made from up to 50% recycled material.

Four-way Locking System

For enhanced performance.

Custom Color Matching

For a color requirement that does not appear in Standard Colors, please contact TCM to inquire about our Special Color Program.

* Check your local Building Code. Building Code restrictions may apply.

STYLE WITH STRENGTH.

Triad Corrugated Metal's Steel Shingles pair the latest looks with the trusted strength of steel.

And no matter the look, TCM's products provide the right shingle for any style. Available in three styles and a full array of colors, they are the ideal choice for a wide range of applications.

The look that lasts.

STEEL SHINGLES



StoneCrest Slate, Vermont Blue

STONECREST® SLATE

Create a dramatic look that closely replicates the random finish of natural slate. They're made with a heavier-gauge steel and double stamped for stunning beauty and durability.



AstonWood, Timber Brown

ASTONWOOD®

Provide the traditional look of real wood shingles with a modern twist. They are incredibly durable to help assure years of lasting beauty.



StoneCrest Tile, Quaker Green

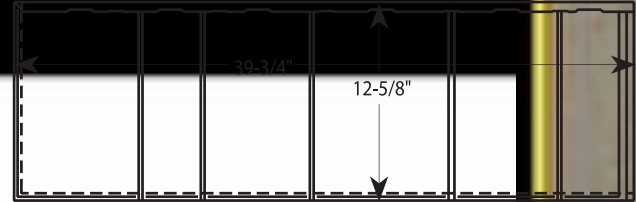
STONECREST® TILE

Create the distinctive look of smooth, uniform tile. For those who appreciate a contemporary and refined appearance, these shingles provide outstanding performance and value.

Triad Corrugated Metal Steel Shingles

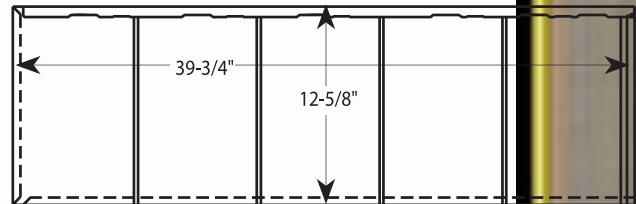
AstonWood® Steel Shingle

30 pc. per carton/98.4 sq. feet per carton • 61 lb. per square

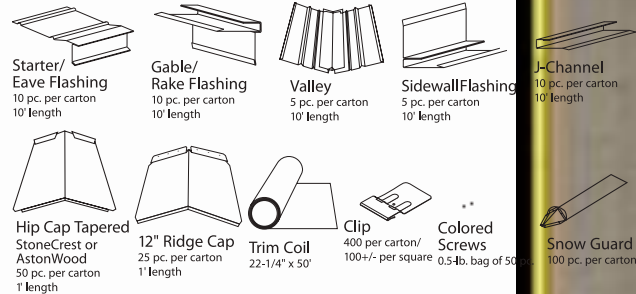


StoneCrest® Slate and StoneCrest® Tile Steel Shingle

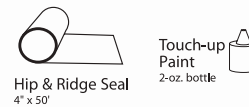
15 pc. per carton/49.2 sq. feet per carton • 74 lb. per square



Metal Accessories



Non-metal Accessories



TCM Cool Colors

Triad Corrugated Metal's Steel Shingles are available with high solar reflectance to help lower energy costs. The "cool color" options are StoneCrest Slate Sequoia Red, Sierra Slate Grey and Vermont Blue; AstonWood Sequoia Red, Vermont Blue, Forest Green, Timber Brown, River Rock Brown, Brite Red and Canyon Copper Bronze; and StoneCrest Tile Sierra Slate Grey and Vermont Blue. Each of these products is rated by the Cool Roof Rating Council—a testament to the energy savings that can be achieved.

Colors

SS = StoneCrest Slate AW = AstonWood ST = Stonecrest Tile

SEQUOIA RED • SS† • AW† •	SIERRA SLATE GREY • SS† • AW • ST† •	VERMONT BLUE • SS† • AW† • ST† •	FOREST GREEN • AW† •	TIMBER BROWN • AW† •	RIVER ROCK BROWN • AW† •	BRITE RED • AW† •	QUAKER GREEN • SS • ST •	CANYON COPPER BRONZE • AW† •
------------------------------	---	-------------------------------------	-------------------------	-------------------------	-----------------------------	----------------------	-----------------------------	---------------------------------

NOTE: Reproduction of these colors is as accurate as our printing will permit. Triad Corrugated Metal recommends viewing an actual roof installation or several full-size shingles prior to final color selection for the full impact of color blending and patterns.

† Products receiving Cool Roof Rating Council (CRRC) rating authorization include StoneCrest Slate Sequoia Red, Sierra Slate Grey and Vermont Blue; AstonWood Sequoia Red,



STONE COATED STEEL SHINGLES



- Fire Resistant - Class A Fire Rated
- Extreme Wind Resistance - Warranted to 120 mph
- Class 2.5 Hail Stone Warranty - Class 4 Impact Resistant
- 1.25 lbs per square foot installed - No structural reinforcement required
- Superior Durability - Will not crack, split, peel or rot
- Supported by a Limited Lifetime Transferable Warranty
- Ideal for residential and commercial applications
- Roof over existing materials including wood shake
- Large variety of colors, including Energy Star® qualified finishes
- Batten mounted systems allow increased ventilation
- Resistant to UV and most air borne pollutants
- Comprised of 81.5% recycled steel & is recyclable

SIGNATURE SERIES

The Signature Series is the perfect roofing system, one that can stand up to extreme weather conditions and fierce winds without sacrificing beauty. Using steel as the foundation, it was discovered that we could also provide the added benefits of safety and durability. Today, TCM incorporates the latest technology and materials to manufacture a system worthy of being called the Final Roofing System. Strong yet lightweight – at 1.25 pounds per square foot, these panels can be installed over new or existing roofing.

Safe and secure for the life of your home.

STONE COATED STEEL ROOF



Continental

OLD WORLD CHARM

Triad Corrugated Metal uses a unique blend of earth stone granules which are bonded and sealed to pre-formed Galvalume® steel panels to provide the natural hues and beauty of traditional roofing.

WIND WARRANTED

Triad Corrugated Metal's lightweight panelized roofing products have been independently evaluated and tested, surpassing industry standards for high velocity winds, wind driven rain and is supported by our Lifetime Limited Warranty.

PROTECTION FROM FIRE

A TCM steel roof system will provide your family with the additional security and protection against fire that is an inherent quality of steel roofing. Your TCM roof will prove to be a long lasting maintenance free addition to your home.

WILL NOT CRACK OR BREAK

Impact and weather tested, a TCM roof will provide long lasting security and protection from the freeze and thaw of the North, the searing heat of the South and the hail of the Midwest. In some cases a TCM roof may reduce your premiums. Ask your insurance agent.



Shadowline



Woodshake

TROUBLE FREE BEAUTY

Triad Corrugated Metal's Signature Series Products are batten mounted, giving your home the added benefits of insulation, ventilation and noise reduction that this method of installation provides. The battens also increase the roof structure's shear strength, walkability and resistance to movement during earthquakes.

ELEGANCE

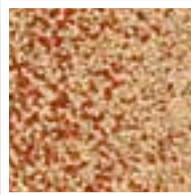
Designed to enhance your home's beauty, the lightweight Triad Corrugated Metal roof is also resistant to the sun's UV and most airborne pollutants so your roof maintains its beauty for years to come.



Mission Terracotta



MISSION CLAY



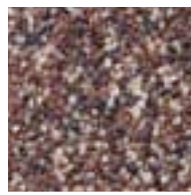
Autumn Gold



Driftwood



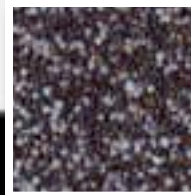
Cedarwood



Sandalwood



Natural Wood



Weathered Wood



Weathered Slate

METAL ROOFING ACCESSORIES



Underlayment	30
Titanium™ UDL 30yr	30
Titanium™ UDL 50yr	30
Titanium™ PSU	30
FSK Shield	30
Grip-Caps	30
Pipe Flashing / Vent Boots	31
Closures	31
Foam Solid	31
Profile Vent	31
Expansion Foam	31
Vented	31
Touch Up Paint	32
Spray	32
Brush	32
Caulking	32
Solarseal®	32
Flexseal	32

Skylight Panels	32
Fiberglass	32
Polycarbonate Clear	32
Polycarbonate Tinted	32
Fiberglass RidgeLight	32
Fasteners	33
Low & Ultra Low Profile	33
Drill Screws	34
Wood	35
Self-Tapping	35
Pop Rivets	36
Chimney Covers	37
Square to Round	37
Hip Roof	37
Flat Top	37
Covered Wagon	37
Cupolas	38
S-5™	39
Tools	42

UNDERLAYMENT | GRIP-CAPS

TITANIUM™ UDL 30 SYNTHETIC ROOFING UNDERLAYMENT

- 30 Year Limited Warranty
- For use under all primary roofing materials
- All-Temperature flexibility
- SURE-FOOT™ slip resistant nodular walking surface
- 6 month UV exposure
- Synthetic construction inert to mold growth
- Cool light gray surface, doesn't expand or contract



TITANIUM™ PSU 30 PEEL AND STICK UNDERLAYMENT HIGH & LOW TEMP / ICE DAMMING

- The only modified rubberized asphalt PEEL & STICK with a tough and rugged surface.
- Industry only SELF-SEALING lap system!
- Now with a 30 Year Limited Warranty
- All temperature performance (40° F to 240° F)
- Patented SURE-FOOT™ slip resistant technology
- Synthetic construction inert to mold growth
- Cool light gray surface, doesn't expand or contract
- 3 Month UV exposure



TITANIUM™ UDL 50 SYNTHETIC ROOFING UNDERLAYMENT

- Tougher, thicker robust construction withstands harsh conditions and rough handling
- Industry Leading 50 Year Limited Warranty
- SURE-FOOT™ slip resistant nodular walking surface
- Multi-Fastening convenience
- 6 month UV exposure
- All-Temp Flexibility
- Synthetic construction inert to mold growth
- Cool light gray surface, doesn't expand or contract



FSK Shield

- Radiant Barrier System reduces 97% of heat transfer by radiation
- Lowers Attic Temperatures by as much as 30% in Summer
- Reduces Heat Loss in Winter
- Can be used as an effective vapor barrier
- Flame Retardant Adhesive



Grip-Cap Roofing Nails

Grip-Cap plastic cap and metal cap fasteners are electrogalvanized for additional corrosion resistance and are ring-shanked for increased holding power. The large head is ideal for holding roofing felt, sheathing, poly and other materials in place that are prone to tearing when attached with a regular nail. Grip-Cap nails are available in one-pound boxes and piece count bulk boxes and buckets.

PIPE FLASHING | CLOSURES

Pipe Flashing / Vent Boots



Black Square #1 - #9 (sizes 1/4" - 18")



Gray Round #1 - #9 (sizes 1/4" - 18")



High Temp #1 - #9 (sizes 1/4" - 18")



Colors Available:

- BP Green
- Brite Red
- Country Red
- Fern Green
- Gallery Blue
- Light Gray
- Polar White
- Black

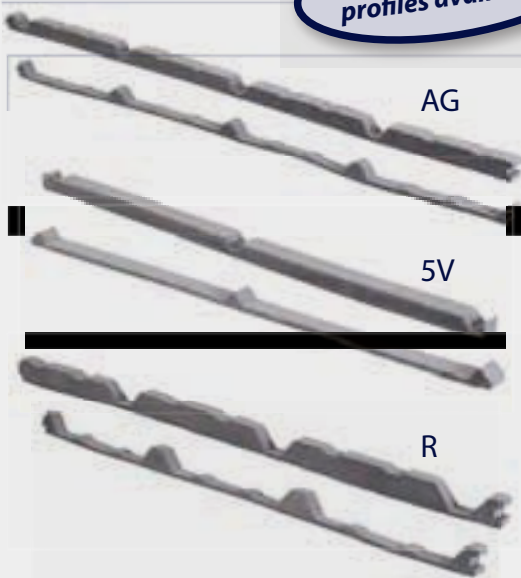
Colored Square #3 (1/4" - 4") only



Retro-Fit Pipe Flashing

Inside / Outside Closures

Many more profiles available!



Solid



Vented

Profile Vent Roll

ProfileVent is a single layer ridge vent on a roll. It is strong, durable, modified polyester, non-woven, non-wicking, fiber based matting designed specifically for metal roofs. Available in 20', 50' and 100' packages.



Expansion Foam Closure

PAINT | CAULKING | SKYLIGHTS

Touch Up Paint



Brush

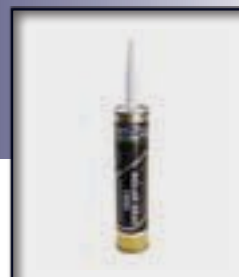


Spray

Caulking



Flexseal



Solarseal®

Skylight Panels



Fiberglass
(Available in AG & R)



Polycarbonate
Clear
(Available in AG only)



Polycarbonate
Tinted
(Available in AG only)

**Many more
styles available!**

AG Panel Skylights


















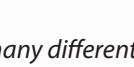
Fiberglass

RidgeLight

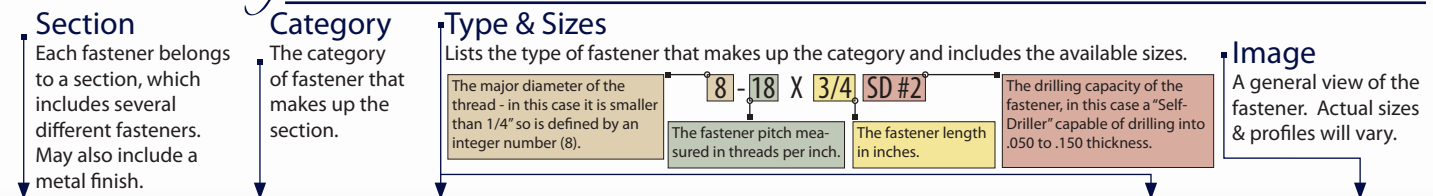
Designed to fit various applications, such as greenhouses, warehouses and patio covers, as well as other applications where natural light is preferred.


- * Years of dependable performance
- * Resists stains, rust and mildew
- * Minimum maintenance
- * Easy to handle and install
- * No special tools needed
- * Tough surface resists shattering, scratches and abrasions
- * Extremely high strength to weight ratio

FASTENERS - LOW AND ULTRA LOW PROFILE






















	Description	Drilling Thickness	
Applications Wood, Light Gauge Steel, or Aluminum Applications	#10-13 X 1" GP.0003" Zinc and Yellow	<= 20 ga.	
	#10-13 X 1" GP LL Long-life TRI-ACQ™ coated	<= 20 ga.	
	#10-13 X 1" GP302 Stainless Steel	N/A	
	#10-9 X 1-1/8" ULP.0003" Zinc and Yellow	<= 24 ga.	
	#10-9 X 1-1/8" ULP LL Long-life TRI-ACQ™ Coated	<= 24 ga.	
	#10-9 X 1-1/8" ULP410 Stainless Steel	<= 24 ga.	
	#10-13 X 1-1/2" GP.0003" Zinc and Yellow	<= 20 ga.	
	#10-13 X 2" GP.0003" Zinc and Yellow	<= 20 ga.	
	#12-14 X 1" GP LL Long-Life TRI-ACQ™ Coated	.210" Max	
	Metal Applications	#10-16 X 5/8" DP2.0003" Zinc and Yellow	.175" Max
#10-24 X 5/8" DP3.0003" Zinc and Yellow		.210" Max	
#10-16 X 1" DP3.0003" Zinc and Yellow		.175" Max	
#10-16 X 1" DP3410 Stainless Steel		.175" Max	
#12-14 X 1" DP3 LL Long-Life TRI-ACQ™ Coated		.210" Max	
#12-14 X 1" DP3 Bi-Metal T-25 Torx304 Stainless Steel (SD300)		.210" Max	
#12-14 X 1" MP.0003" Zinc and Yellow		14 ga Max	
1/4-14 X 1" DP3.0003" Zinc and Yellow		1/4" Max	

Fastener Legend There is a lot of information in the following tables about our many different fasteners. Here's a quick lesson on how to interpret the tables...











Impax - Drill Screw with Silver-Sentri Long-Life Finish	Drill Screws with Bond Seal Washers	IMPAX HWH SELF-DRILL BOND SEAL SENTRI 8-18 X 3/4 SD #2 • 10-16 X 5/8 SD #2 • 10-16 X 3/4 SD #3 • 10-16 X 1 SD #3 • 10-16 X 1-1/4 SD #3 • 10-16 X 1-1/2 SD #3 12-14 X 3/4 SD #3 • 12-14 X 3/4 SD • 12-14 X 1 SD • 12-14 X 1-1/4 SD • 12-14 X 1-1/2 SD • 12-14 X 2 SD • 12-14 X 2-1/2 SD 12-14 X 3 SD • 12-14 X 4 SD • 1/4-14 X 7/8 (5/16 HWH) LAP SD • 12 X 3/4 (5/16 HWH) SHARP POINT LAP	IMPAX HWH SELF-DRILL #4, #4.5 & #5 BOND SEAL SENTRI 12-24 X 7/8 #4 SD • 12-24 X 1-1/4 #4.5 SD 12-24 X 1-1/4 #5 SD • 12-24 X 1-1/2 #5 SD • 12-24 X 2 #5 SD	
---	-------------------------------------	---	--	---

FASTENERS - DRILL SCREWS

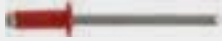
Impax - Drill Screw with Silver Sentri Long-Life Finish	Drill Screws with Bond Seal Washers	IMPAX HWH SELF-DRILL BOND SEAL SENTRI 8-18 X 3/4 SD #2 • 10-16 X 5/8 SD #2 • 10-16 X 3/4 SD #3 • 10-16 X 1 SD #3 • 10-16 X 1-1/4 SD #3 • 10-16 X 1-1/2 SD #3 12-14 X 3/4 SD #3 • 12-14 X 3/4 SD • 12-14 X 1 SD • 12-14 X 1-1/4 SD • 12-14 X 1-1/2 SD • 12-14 X 2 SD • 12-14 X 2-1/2 SD 12-14 X 3 SD • 12-14 X 4 SD • 1/4-14 X 7/8 (5/16 HWH) LAP SD • 12 X 3/4 (5/16 HWH) SHARP POINT LAP		IMPAX HWH SELF-DRILL #4, #4.5 & #5 BOND SEAL SENTRI 12-24 X 7/8 #4 SD • 12-24 X 1-1/4 #4.5 SD 12-24 X 1-1/4 #5 SD • 12-24 X 1-1/2 #5 SD • 12-24 X 2 #5 SD		
	Drill Screws without Washers	IMPAX HWH SELF-DRILL SENTRI NO WASHER 8-18 X 1/2 SD #2 • 8-18 X 5/8 NIB SD #2 • 8-18 X 3/4 SD #2 • 10-16 X 5/8 SD #3 • 10-16 X 3/4 SD #3 10-16 X 1 SD #3 • 10-16 X 1-1/4 SD #3 • 10-16 X 1-1/2 SD #3 • 12-14 X 3/4 SD #3 • 12-14 X 3/4 SD • 12-14 X 1 SD 12-14 X 1-1/4 SD • 12-14 X 1-1/2 SD • 12-14 X 2 SD • 12-14 X 2-1/2 SD • 12-14 X 3 SD • 12-14 X 4 SD 1/4-14 X 7/8 (5/16 HWH) LAP SD • 12 X 3/4 (5/16 HWH) SHARP POINT LAP		IMPAX HWH SELF-DRILL SENTRI #4, #4.5 & #5 SENTRI NO WASHER 12-24 X 7/8 #4 SD • 12-24 X 1-1/4 #4.5 SD • 12-24 X 1-1/4 #5 SD 12-24 X 1-1/2 #5 SD • 12-24 X 2 #5 SD		
	Drill Screw Sealer with Washers	IMPAX HWH SELF-DRILL SENTRI NO WASHER 12-14 X 3/4 • 12-14 X 1 • 12-14 X 1-1/4 • 12-14 X 1-1/2 • 1/4-14 X 7/8 LAP				
	#14 Drill Screws with Bond Seal Washers	IMPAX HWH SELF-DRILL BOND SEAL SENTRI 1/4-14 X 3/4 SD #3 • 1/4-14 X 1 SD #3 • 1/4-14 X 1-1/4 SD #3 • 1/4-14 X 1-1/2 SD #3 • 1/4-14 X 2 SD #3 • 1/4-14 X 2-1/2 SD #3 • 1/4-14 X 3 SD #3 • 1/4-14 X 4 SD #3 • 1/4-20 X 3 SD #4 1/4-20 X 4 SD #4 • 1/4-20 X 5 SD #4 • 1/4-20 X 6 SD #4 • 1/4-20 X 7 SD #4 • 1/4-20 X 8 SD #4 • 1/4-14 X 1 (5/16 HWH) SD #2 • 1/4-14 X 1 SD #2 • 1/4-14 X 1-1/4 (5/16 HWH) SD #2 1/4-14 X 1-1/2 (5/16 HWH) SD #2 • 1/4-14 X 1-1/2 SD #2				
	#14 Drill Screws without Washers	IMPAX HWH SELF-DRILL SENTRI NO WASHER 1/4-14 X 3/4 SD #3 • 1/4-14 X 1 SD #3 • 1/4-14 X 1-1/4 SD #3 • 1/4-14 X 1-1/2 SD #3 • 1/4-14 X 2 SD #3 • 1/4-14 X 2-1/2 SD #3 • 1/4-14 X 3 SD #3 • 1/4-14 X 4 SD #3 • 1/4-20 X 3 SD #4 1/4-20 X 4 SD #4 • 1/4-20 X 5 SD #4 • 1/4-20 X 6 SD #4 • 1/4-20 X 7 SD #4 • 1/4-20 X 8 SD #4 • 1/4-14 X 1 (5/16 HWH) SD #2 • 1/4-14 X 1 SD #2 • 1/4-14 X 1-1/4 (5/16 HWH) SD #2 1/4-14 X 1-1/2 (5/16 HWH) SD #2 • 1/4-14 X 1-1/2 SD #2				
	Drill Screw with Shoulder	IMPAX HWH #14 SELF-DRILL SHOULDER SCREW W/OUT WASHER SENTRI 1/4-14 X 1-1/4 SD #2 • 1/4-14 X 1-1/4 (5/16 HWH) SD #2 • 1/4-20 X 1-1/4 (5/16 HWH) SD #4		IMPAX HWH #12 SELF-DRILL SHOULDER SCREW W/ WASHER SENTRI 12-14 X 1-1/2 SD		
	Insulation Drill Screws with Bond Seal Washers	IMPAX HWH SELF-DRILL SENTRI NO WASHER 12-14 X 1-7/8 SD #3 • 12-14 X 2-3/8 SD #3 • 12-14 X 3-1/4 SD #3				
	irius SX Stainless Self-Drill - irius SX austenitic stainless steel	irius SX Stainless Self-Drill with Bond Seal Washers	SX3-L12 12MM (1/2") AL BOND SEAL 12-11 X 7/8 SD • 12-11 X 1-1/8 SD • 12-11 X 1-1/2 SD	SX6-L12 12MM (1/2") AL BOND irius 12-14 X 1-9/16 SD	SX14-L12 16MM (5/8") SS BOND SEALBOND SEAL 12-14 X 1 SD • 12-14 X 1-1/4 SD	SX12-L12 FREE SPIN LAP 14MM BOND SEAL PLAIN PAINTED AL BOND SEAL 12-11 X 7/8 SD
irius -Carbon Steel-Impax with Bond Seal Washers		irius IMPAX SELF-DRILL 7/16 BOND SEAL PLAIN PAINTED 12-14 X 3/4 • 12-14 X 1 • 12-14 X 1-1/4 • 12-14 X 1-1/2 • 1/4-14 X 7/8 LAP				
SX Stainless Self-Drill - SX austenitic stainless steel	SX Stainless Self-Drill with Bond Seal Washers	SX3-D12 SELF-DRILL TORX DRIVE 12MM AL BOND SEAL 12-11 X 1-1/8 SD T20				
	SX Stainless Self-Drill with Bond Seal Washers	SX3 SELF-DRILL STAINLESS HWH 16MM SS BOND SEAL 12-11 X 7/8 SD • 12-11 X 1-1/8 SD • 12-11 X 1-1/2 SD • 12-11 X 2 SD				
SX Stainless Self-Drill - SX austenitic stainless steel	SX Stainless Self-Drill with Bond Seal Washers	INSULATED PANEL TO STEEL SXC14 SELF-DRILL 5 STAINLESS HWH 19MM SS BOND SEAL STAND OFF 12-14 X 3-1/8 Standoff SD #5 • 12-14 X 3-3/4 Standoff SD #5 • 12-14 X 4-5/8 Standoff SD #5 • 12-14 X 5-1/2 Standoff SD #5 • 12-14 X 6-5/8 Standoff SD #5				
	SX Stainless Self-Drill with Bond Seal Washers	INSULATED PANEL TO WOOD SXCW SELF-DRILL STAINLESS HWH 19MM SS BOND SEAL 14-14 X 3-1/2 SD • 14-14 X 4-1/8 SD • 14-14 X 4-9/16 SD • 14-14 X 5-3/8 SD • 14-14 X 6-1/4 SD				
	SX Stainless Self-Drill without Washers	SX3-D12 SELF-DRILL STAINLESS TORX DRIVE 12-11 X 1-1/8 SD		SX6-D12 SELF-DRILL STAINLESS TORX DRIVE 12-14 X 1 SD • 12-14 X 1-1/4 SD		
	SX Stainless Self-Drill without Washers	SX3-D12 SELF-DRILL STAINLESS TORX DRIVE 12-11 X 7/8 SD • 12-11 X 1-1/8 SD • 12-11 X 1-1/2 SD • 12-11 X 2 SD 12-11 X 2 1/2 SD • 12-11 X 3 SD		SX3-D12 SELF-DRILL STAINLESS TORX DRIVE 12-14 X 1 SD • 12-14 X 1-1/4 SD • 12-14 X 1-1/2 SD	SX3-D12 SELF-DRILL STAINLESS TORX DRIVE 12-14 X 1-9/16 SD #5	
Rainscreen - Cladding Attachment Fasteners	Rainscreen Stainless Steel Fasteners without Washers	SX3-L12 SELF-DRILL 12MM (1/2") AL BOND SEAL 10-12 X 1-1/2				
	Rainscreen Stainless Steel Fasteners without Washers	SX3-D12 SELF-DRILL STAINLESS TORX DRIVE 12-11 X 1-1/8 SD		SX6-D12 SELF-DRILL STAINLESS TORX DRIVE 12-14 X 1 SD • 12-14 X 1-1/4 SD		
	Rainscreen Stainless Steel Fasteners without Washers	SX3 SELF-DRILL STAINLESS HWH 12-11 X 7/8 SD • 12-11 X 1-1/8 SD • 12-11 X 1-1/2 SD • 12-11 X 2 SD 12-11 X 2 1/2 SD • 12-11 X 3 SD		SX6 SELF-DRILL STAINLESS HWH 12-14 X 1 SD • 12-14 X 1-1/4 SD • 12-14 X 1-1/2 SD	SX14 SELF-DRILL STAINLESS HWH 12-14 X 1-9/16 SD #5a	
410 Stainless - 410 Stainless Self-Drill	410 Stainless Self-Drill with Bond Seal Washers	410 SS SELF-DRILL STAINLESS ALUMINIUM BOND SEAL 12-14 X 3/4 SD #3 • 12-14 X 1 SD #3 • 12-14 X 1-1/4 SD #3 • 12-14 X 1-1/2 SD #3 • 1/4-14 X 7/8 (5/16 HWH) LAP				
	410 Stainless Self-Drill without Washers	410 SS SELF-DRILL STAINLESS NO WASHERS 12-14 X 3/4 SD #3 • 12-14 X 1 SD #3 • 12-14 X 1-1/4 SD #3 • 12-14 X 1-1/2 SD #3 • 1/4-14 X 7/8 (5/16 HWH) LAP				
ZAC Impax HWH Alloy Capped - Zincaluminum capped drill screw	ZAC Long-Life Fasteners	ZAC IMPAX SELF-DRILL (5/16 HWH) 12-14 X 1 SD • 12-14 X 1-1/4 SD 12-14 X 1-1/2 SD • 12-14 X 2 SD 1/4-14 X 7/8 LAP SD • 1/4-14 X 1-1/4 SD #3	ZAC IMPAX SELF-DRILL (3/8 HWH) 12 X 3/4 SP STITCH • 12-14 X 1 SD • 12-14 X 1-1/4 SD • 12-14 X 1-1/2 SD 12-14 X 2 SD • 12-14 X 2-1/2 SD • 12-14 X 3 SD • 1/4-14 X 7/8 LAP SD 1/4-14 X 1-1/4 SD #2 • 1/4-14 X 1-1/2 SD #2		ZAC SD #4.5 & #5 (3/8 HWH) 12-24 X 1-1/4 SD #4.5 • 12-24 X 1-1/4 SD #5 12-24 X 1-1/2 SD #5	
	ZAC Insulation Self-Drill Fasteners	ZAC EXT INSULATION SD (3/8 HWH) 12-14 X 1-7/8 SD #3 • 12-14 X 2-3/8 SD #3 • 12-14 X 3-1/4 SD #3				
MAC Impax Stainless Capped Self-Drill	MAC - Stainless Cap Long-Life Fasteners	MAC - Stainless Cap Long-Life Fasteners 12-14 X 1 SD • 12-14 X 1-1/4 SD • 12-14 X 1-1/2 SD • 12-14 X 2 SD • 14 X 7/8 SD • 12-24 X 1-1/4 SD #4.5				

FASTENERS - WOOD & SELF TAPPING

Wood Fasteners							
Woodgrip Fasteners - Woodgrip and HiLo Woodgrip	ZAC Long-Life Fasteners	WOODGRIP HiLo BOND SEAL SENTRI 1" Hi Lo WOODGRIP • 1-1/2" Hi Lo WOODGRIP 2" Hi Lo WOODGRIP • 2-1/2" Hi Lo WOODGRIP 3" Hi Lo WOODGRIP • 12x3/4 (1/4 HWH) SP STITCH	WOODGRIP CONTROL SEAL SENTRI C0161-CCF 1" WOODGRIP • C0261-CCF 1-1/2" WOODGRIP C0381-CCF 2" WOODGRIP • C0461-CCF 2-1/2" WOODGRIP C0485-CCF 3" WOODGRIP A1701-ECF 12 X 3/4 (1/4 HWH) SP STITCH	WOODGRIP BOND SEAL SENTRI 1" WOODGRIP • 1-1/2" WOODGRIP • 2" WOODGRIP 2-1/2" WOODGRIP • 3" WOODGRIP 12 X 3/4 (1/4 HWH) SP STITCH			
		WOODGRIP .001" MECHANICAL ZINC CONTROL SEAL SENTRI 1" WOODGRIP • 1-1/2" WOODGRIP • 2" WOODGRIP 2-1/2" WOODGRIP • 3" WOODGRIP	#12 WOODGRIP XG CONTROL SEAL SENTRI #12 X 1 WOODGRIP XG • #12 X 1-1/2 WOODGRIP XG #12 X 2 WOODGRIP XG • #12 X 2-1/2 WOODGRIP XG #12 X 3 WOODGRIP XG	WOODGRIP SENTRI NO WASHER 1" WOODGRIP • 1-1/2" WOODGRIP • 2" WOODGRIP 2-1/2" WOODGRIP • 3" WOODGRIP • 12 X 3/4 (1/4 HWH) SP STITCH			
ZAC self-tapping fasteners: A and AB	ZAC Long-Life Fasteners	ZAC SELF-TAPPING SEAL (3/8 HWH) 14 X 3/4 TYPE AB • 14 X 1 TYPE AB MP • 14 X 1-1/4 TYPE AB (NOT MP) • 14 X 1-1/2 TYPE AB MP • 14 X 2 TYPE AB MP 14 X 2-1/2 TYPE AB MP • 17 X 1 TYPE AB • 17 X 1-1/2 TYPE AB			ZAC SELF-TAPPING SEAL (5/16 HWH) 14 X 3/4 TYPE AB • 14 X 1 TYPE AB • 17 X 1 TYPE AB		
Woodgrip Capped Fasteners - WoodMAC & WoodZAC	WoodMAC Drill Screws	WOODMAC 1/4 HWH STAINLESS CAP HEAD 1" WOODMAC • 1-1/2" WOODMAC • 2" WOODMAC • 2-1/2" WOODMAC • 3" WOODMAC • 12 X 3/4 SP WOODMAC (5/16 HWH)					
	WoodZAC Drill Screws	WOODZAC 5/16 HWH ZINC ALUMINUM CAST HEAD - ALUM BOND SEAL 1" WOODZAC • 1-1/2" WOODZAC • 2" WOODZAC • 2-1/2" WOODZAC • 3" WOODZAC 12 X 3/4 SP WOODZAC	WOODZAC 5/16 HWH ZINC ALUMINUM CAST HEAD - ALUM BOND SEAL 1" WOODZAC HiLo • 1-1/2" WOODZAC HiLo 2" WOODZAC HiLo • 2-1/2" WOODZAC HiLo • 3" WOODZAC HiLo				
Stainless Wood Fasteners - EVERGRIP Bi-Metal and Woodgrip Stainless	EVERGRIP Bi-Metal Stainless with Stainless Bond Seal	EVERGRIP - STAINLESS BOND SEAL - 100 or 250 PC/BAG 1" EVERGRIP • 1-1/2" EVERGRIP • 2" EVERGRIP • 2-1/2" EVERGRIP					
	Stainless Aluminum Panel Woodgrip with Aluminum Bond Seal	SS WOODGRIP - ALUMINUM BOND SEAL - "FOR ALUMINUM PANELS" #9 X 1" SS WOODGRIP • #9 X 1-1/2" SS WOODGRIP • #9 X 2" SS WOODGRIP • #9 X 2-1/2" SS WOODGRIP • #9 X 3" SS WOODGRIP					
	EVERGRIP Bi-Metal Stainless T-25 (TORX) Pan Head with Stainless Bond Seal	EVERGRIP - T-25 PAN HEAD - STAINLESS BOND SEAL 1" EVERGRIP T-25 PAN HEAD • 1-1/2" EVERGRIP T-25 PAN HEAD • 2" EVERGRIP T-25 PAN HEAD • 3" EVERGRIP T-25 PAN HEAD • SFS T-25 TORX BIT SPECIAL FOR EVERGRIP					
#14 Milled Point - Type A and Type AB	Milled Point Fasteners	#14 TYPE A MP SENTRI 14 X 1 (5/16 HWH) TYPE A MP 14 X 1-1/2 (5/16 HWH) TYPE A MP	#14 TYPE A MP, BOND SEAL SENTRI 14 X 1 (5/16 HWH) TYPE A MP • 14 X 1-1/2 (5/16 HWH) TYPE A MP 14 X 2 (5/16 HWH) TYPE A MP • 14 X 2-1/2 (5/16 HWH) TYPE A MP 14 X 3 (5/16 HWH) TYPE A MP	ZAC #14 TYPE AB, MP BOND (3/8 HWH) 14 X 1 TYPE AB MP • 14 X 1-1/2 TYPE AB MP 14 X 2 TYPE AB MP • 14 X 2-1/2 TYPE AB			

Self-Tapping Fasteners							
Tapping Screws - Carbon Steel - Self-Tapping - Type A, AB, and B	Type A Plated Fastener with Bond Seal	3/8 HEX HEAD SELF-TAPPING TYPE A WITH BOND SEAL 14 X 3/4 • 14 X 1 • 14 X 1-1/4 • 14 X 1-1/2 • 14 X 2 • 14 X 2-1/2 • 14 X 3 • 14 X 3-1/2 • 14 X 4 • 14 X 5 • 14 X 6	5/16 HEX HEAD SELF-TAPPING TYPE A WITH BOND SEAL 14 X 3/4 • 14 X 3/4 SENTRI • 14 X 1 • 14 X 1-1/2 • 14 X 2				
	Type A Plated Fastener without Washers	3/8 HEX HEAD SELF-TAPPING TYPE A 14 X 3/4 • 14 X 1 • 14 X 1-1/4 • 14 X 1-1/2 • 14 X 2 • 14 X 2-1/2 • 14 X 3 • 14 X 3-1/2 • 14 X 4 • 14 X 5 • 14 X 6					
	Type AB Plated Fastener with Bond Seal	3/8 HEX HEAD SELF-TAPPING TYPE AB - WITH BOND SEAL 14 X 3/4 • 14 X 1 • 14 X 1-1/4 • 14 X 1-1/2 • 17 X 3/4 • 17 X 1 • 17 X 1-1/2					
	Type B Plated Fastener with Bond Seal	3/8 HEX HEAD SELF-TAPPING TYPE B - WITH BOND SEAL 14 X 3/4 • 14 X 1 • 14 X 1-1/2 • 14 X 2 • 14 X 2-1/2 • 14 X 3 • 14 X 3-1/2 • 14 X 4 • 14 X 5 • 14 X 6					
	Type AB Plated Fastener without Washers	3/8 HEX HEAD SELF-TAPPING TYPE AB 14 X 3/4 • 14 X 1 • 14 X 1-1/4 • 14 X 1-1/2 • 17 X 3/4 • 17 X 1 • 17 X 1-1/2					
	Type B Plated Fastener without Washers	3/8 HEX HEAD SELF-TAPPING TYPE B 14 X 3/4 • 14 X 1 • 14 X 1-1/2 • 14 X 2 • 14 X 2-1/2 • 14 X 3 • 14 X 3-1/2 • 14 X 4 • 14 X 5 • 14 X 6					
	Type AB Scrubolt with Bond Seal	3/8 HEX HEAD SELF-TAPPING TYPE AB SCRUBOLT TFT BOND SEAL 3/8 X 1 • 3/8 X 1-1/4 • 3/8 X 2-3/4					

POP RIVETS



PAINTED STAINLESS POP RIVET

Exposed Metal to Metal



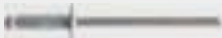
STAINLESS POP RIVET MILL FINISH

Concealed Metal to Metal



COPPER POP RIVET

Copper Metal to Metal



ALUMINUM POP RIVET MILL FINISH

Aluminum or Steel Metal to Metal

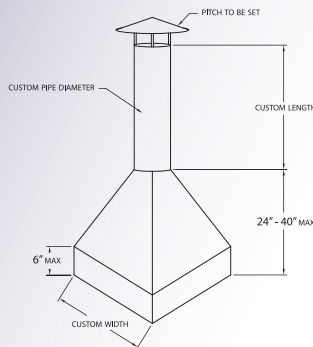


PAINTED ALUMINUM POP RIVET

Aluminum or Steel Metal to Metal

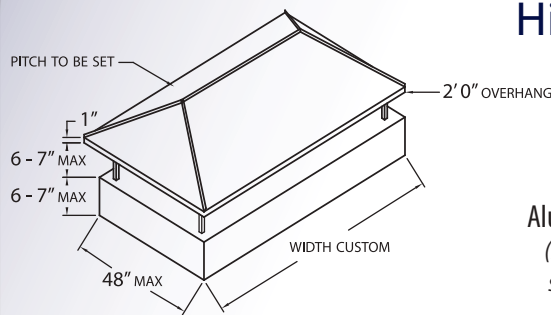
Finish/Head	D	H	H	H	H	H	Tensile Strength	
							Min	Max
Painted Stainless Steel	1/8"	1/2"	1/2"	1/2"	1/2"	1/2"	150	1500
							150	1500
Stainless Steel Mill Finish	1/8"	1/2"	1/2"	1/2"	1/2"	1/2"	150	1500
							150	1500
Copper	1/8"	1/2"	1/2"	1/2"	1/2"	1/2"	150	1500
							150	1500
Aluminum Mill Finish	1/8"	1/2"	1/2"	1/2"	1/2"	1/2"	150	1500
							150	1500
Painted Aluminum	1/8"	1/2"	1/2"	1/2"	1/2"	1/2"	150	1500
							150	1500

CHIMNEY COVERS



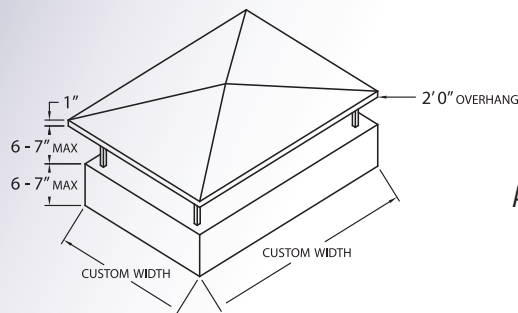
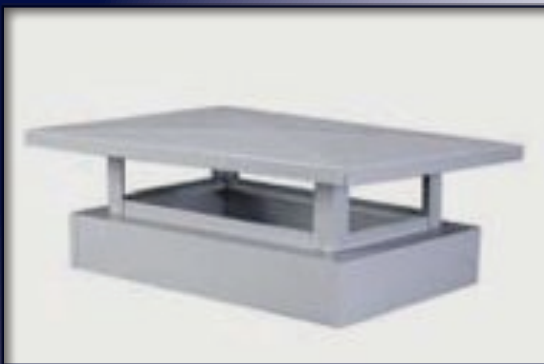
Square to Round Style

Available In:
 24 & 26 Gauge Bare and
 Painted Steel, Copper,
 Aluminum & Stainless Steel
*(If you burn wood, aluminum or
 stainless steel is recommended)*



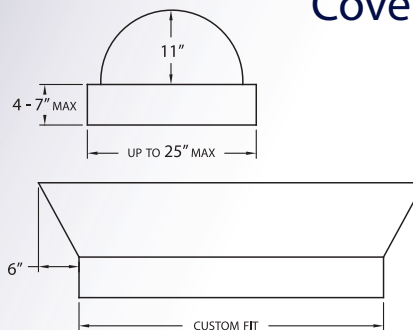
Hip Roof Style

Available In:
 24 & 26 Gauge Bare and
 Painted Steel, Copper,
 Aluminum & Stainless Steel
*(If you burn wood, aluminum or
 stainless steel is recommended)*



Flat Top Style

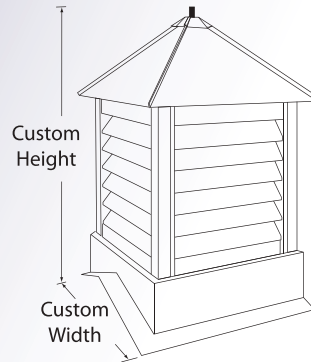
Available In:
 24 & 26 Gauge Bare and
 Painted Steel, Copper,
 Aluminum & Stainless Steel
*(If you burn wood, aluminum or
 stainless steel is recommended)*



Covered Wagon Style

Available In:
 24 & 26 Gauge Bare and
 Painted Steel, Copper,
 Aluminum & Stainless Steel
*(If you burn wood, aluminum or
 stainless steel is recommended)*

CUPOLAS



Cupola

Available In:
24 & 26 Gauge
All Colors
Copper
Aluminum



S-5!™ UTILITY PRODUCTS

Attach anything to standing seam metal roofs without piercing the panel!



Standing seam products represent the state-of-the-art in roofing alternatives today, offering service life and dependability measured in decades. Attachment of rooftop ancillary items, however, has always been difficult and often the source of leaks and maintenance problems. There has never before been a dependable way to attach things to modern standing seam without jeopardizing the integrity of the system and violating warranties, until S-5!™



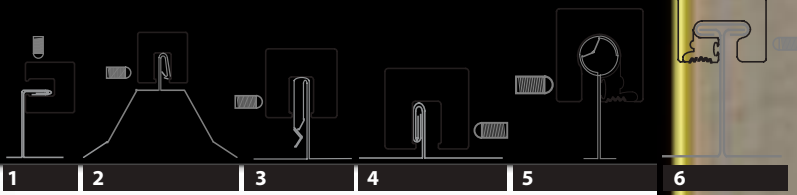
- | | |
|---------------------------------|--------------------------|
| Signs | Solar panels |
| Banners | HVAC equipment |
| Light fixtures | Fascias |
| Gas piping | Parapet bracing |
| Stack & flue bracing | Equipment screens |
| Antennas | Conduits |
| Roof walkways | Condensate lines |



S-5!™ UTILITY PRODUCTS

Installing S-5!™ clamps

Determine how to position the clamp and which side of the clamp to load the set screws into. When attaching to machine folded seams (regardless of panel profile and geometry), S-5!™ clamps are designed to engage the seam as shown (4). For horizontal seam applications, the set screws must be accessible from the top for tightening (1). On many snap-together type seams, the set screws are opposite the open (or overlap) side of the seam (2). On some seams, this aspect of clamp orientation is not critical (3,5).



S-5-U

Some S-5!™ clamps have up to four set screw locations to make the clamp more versatile. Only two set screws are used per clamp.

Take care that:

- the bolt hole is in the desired (upslope or downslope) orientation.
- the set screws are on the correct side of the seam.

Position the clamps appropriately on the panel seam. Both screws should be in the same side of the clamp.

NOTE: Some horizontal seams may require additional hand crimping at the clamp location. Consult Triad Corrugated Metal for tool information.

Using a 3/16" allen-wrench attachment tip (provided with the clamps) on a 1/4" drive screwgun, tighten and retighten set screws as the seam material compresses.

Most of our clamps require the set screws to be tensioned between 115 and 150 in-lbs. Please visit our load table to determine the proper screw tensions. The table may also give cautionary notes for your projects' panel seams. Most industrial grade screwguns are rated at 115 inch-pounds tightening torque and deliver between 115 and 150 in-lbs (13-17Nm) at the highest torque setting.

On shorter seam profiles, a 4" bit extension on the screwgun will facilitate this work. (see right).



S-5-B

S-5-E

S-5-T

S-5-Z

Caution: Battery-operated guns may not deliver consistent screw tension. Drywall guns may not deliver adequate tension.

A variety of S-5!™ clamp styles are available. The S-5-U (above left) will fit most "structural" and "architectural" panel seam styles. S-5-T is for "T" shaped seam profiles. S-5-Z is specially designed to fit ZipRib® and similar profiles. S-5-B is a brass clamp, for standing or batten seam copper. S-5-E is an aluminum clamp designed to fit traditional double folded standing seam. Custom and special clamp inquiries are also invited.



More about S-5!™

S-5!™ clamps offer a solution to the many varied attachments of ancillary rooftop accessories to modern standing seam roofs. Aluminum clamps are metallurgically compatible with bare or painted galvanized, Galvalume®, Aluminized™, and Galfan™ coated steel, as well as bare or painted aluminum, stainless and zinc sheet. In most applications, the clamp should be installed at a location on the seam which avoids the panel's attachment clip location. S-5!™ clamps may also be used at a clip location, provided that the clip is a dual-component expansion clip. Clamps are furnished with stainless steel bolt and washer (3/8" diameter x 3/8" length; bolt head size is 9/16"). All loads incurred by the S-5!™ clamp will be transferred to the panel seam. Panel attachment and structural characteristics must be adequate to withstand such loads. Due to the wide variety of seam types, gauges, material types, attachment methods, and S-5!™ applications, the manufacturer does not express any opinions as to the suitability of S-5!™ for any specific application or condition, and assumes no liability with respect thereto. Clamps have been laboratory tested on various seam types, profiles and materials for ultimate tensile failure loads parallel to panel seam. For critical installations, tested load-to-failure results are available from Triad Corrugated Metal. Appropriate factors of safety should be employed when relying on these test results. S-5!™ may yield low load-to-failure results and therefore may not be suitable for use on some applied cap."

S-5!™ WARNING! The S-5!™ clamp is a handy gadget for a great many uses, but will not perform miracles. **PLEASE USE THIS PRODUCT RESPONSIBLY!** Any loads imposed on the S-5!™ clamp will be transferred to the panels. Panels must be adequately attached to building structure to resist these loads. For critical installations, inquire for specific test data of ultimate tensile load on specific panel materials and seam types. When tabulated values are used, screw tensions should be verified and factors of safety should be used as appropriate. The manufacturer expresses no opinions as to the suitability of the S-5!™ for any specific application or project condition.

ALWAYS PROVIDE WORKER FALL PROTECTION WHEN INSTALLING S-5!™. THE S-5!™ CLAMP IS NOT APPROVED FOR USE AS A PERSONAL FALL RESTRAINT DEVICE!

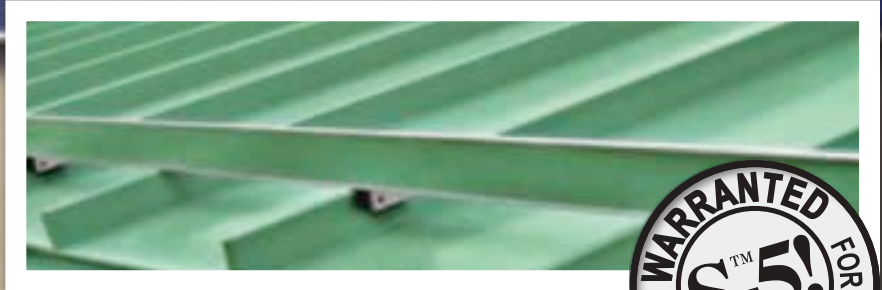
S-5!™ products are protected by one or more of the following U.S. patents: 5,228,248; 5,483,772; 5,491,931; 5,694,721; 5,715,640. Other U.S. and foreign patents pending. S-5! and S-5 are trademarks of Metal Roof Innovations, Ltd. Galvalume is a trademark of BIEC International. Aluminized is a trademark of Armo, Inc. Galfan is a trademark of ILZRO. ZipRib is a trademark of Merchant & Evans. Kal Zip is a trademark of Hoogovens Aluminium Bldg. Systems.

S-5!™ COLORGARD®

Snow Retention System

The sudden and unexpected release of snow from the roof can be dramatic, posing a serious threat to property and passers-by. ColorGard® dramatically reduces the risks associated with rooftop avalanches and maintains the clean colorful appearance of the roof with perfect color and finish matching, which lasts as long as the roof itself! ColorGard® is the only snow retention system designed and engineered on a site-specific basis; guaranteed to perform, to not damage the roof or finish, and to exactly match the roof color—for the entire life of the roof*.

Today's premium Kynar 500® and Hylar 5000® (PVDF) paint systems used on metal panels are "coil-coated" and oven-cured. This is the only finish application method that can be warranted against color fade for 30 years or longer. Nothing can equal it! So, why settle for less in a snow guard system? While some dyes, powder-coats and air-dried color application methods may initially simulate a perfect match, the color soon begins to fade and becomes increasingly mismatched with a few years of age. By utilizing a strip of the actual roof material, ColorGard® perfectly matches the roof—forever!



Why is S-5!™ the Best Choice?

The premium finishes used on today's metal roof products are fluorocarbons—paint resins that are similar in chemical composition to "Teflon," the popular non-stick coating. The benefits of this type of paint are related to its nonstick characteristics. Chemical bonds like tapes, glues and adhesives, therefore, provide only temporary and unreliable solutions. Other mechanical alternatives that involve penetrating the roof or galling the surface result in leakage, corrosion, and voided warranties. Thanks to our patented round-tip setscrews, S-5!™ clamps do not pierce metal paneling, thereby protecting roof coatings and weather-tightness warranties.

ColorGard® is mechanically attached with patented S-5!™ clamps. S-5!™ is the trusted name in metal rooftop attachment technology worldwide.. S-5!™ patented, round-point setscrews grip the seam securely without penetration and without damage to the panel's protective finishes. The clamps are precision-machined from aircraft quality, high tensile aluminum—not cast or plastic. All related hardware is non-ferrous stainless steel for lasting performance.

Can ColorGard® be Retrofitted to An Existing Roof?

Yes, ColorGard® can be easily retrofitted to existing roofs, or incorporated into new construction design. ColorGard® can be installed any time of year.

Is Design Assistance Available For ColorGard®?

Yes! It is critical to design a solution that takes into account the effects of gravity on a snow-covered roof. The tested holding strength of ColorGard® must be checked and proven against the actual "in-service" gravity loads of the roof. This important step in application engineering should not be omitted for any snow retention product.

Consult with Triad Corrugated Metal to help quickly and easily design each job. We will help you to "tailor" the ColorGard® system on a project-specific basis, allowing for all the variables involved—and even provide a printout of the calculations and a material requirement list.

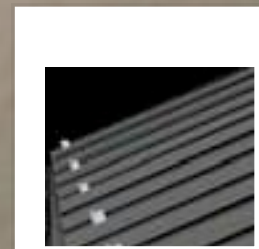
How Easy is it to Install?

Once designed, ColorGard® is easy to install and requires only tools that are common to the trade.

Because S-5!™ ColorGard® uses mechanical attachment rather than adhesives, installation can be done any time of year, with no cleaning, no priming, no cure times, and no callbacks!

What About Cost?

ColorGard® is the best buy on the market! This is the best news of all! ColorGard® has greater holding strength, better aesthetics, longer service life, and lower installed cost than any other engineered system on the market. Pound-for-pound of holding strength, ColorGard® is a better buy than individual cleats or glued units.



S-5!™ Warning! Please use this product responsibly!

Products are protected by multiple U.S. and foreign patents. For maximum holding strength, setscrews should be tensioned and re-tensioned as the seam material compresses. Clamp setscrew tension should be verified using a calibrated torque wrench between 160 and 180 inch pounds when used on 22ga steel, and between 130 and 150 inch pounds for all other metals and thinner gauges of steel. Consult Triad Corrugated Metal for published data regarding holding strength.

TOOLS



12" Aluminum Snip Combo



14" Aluminum Snip Combo



Replacement Blade for MC14A



12" Replacement Blade



M14A Replacement blade



12" Aluminum Snip Straight Cut



14" Aluminum Snip Straight Cut



SG11EV - Seamer & Tongs, Offset, Grippped Jaws for Metal Roofing



5" Hand Seamer



Hand Seamer Steel Jaws 6" S6



Hand Seamer Steel Jaws 3" S2



Hand Seamer Steel Jaws 3" Offset S3



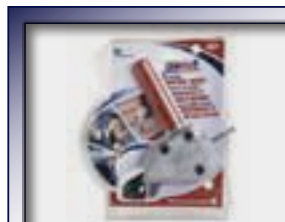
9" Hand Seamer



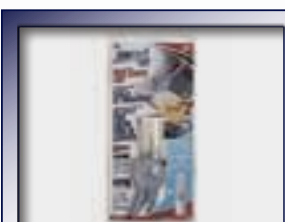
3-Station Edge Roller



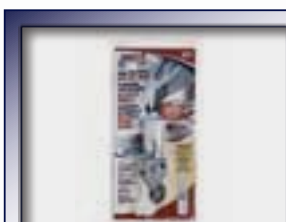
Drip Edge Folding Tool 24"



Turbo Shear



Turbo Shear - Fiber Cement



Turbo Shear Heavy Duty



Heavy Duty Turbo Shear Replacement Blade



Max 2000° ergonomic grip snip cuts straight, left and right



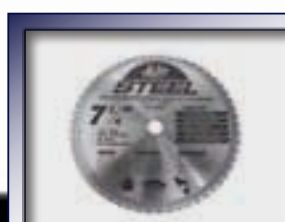
Offset Utility Knife



Small Trim Nail Punch



Snap-Loc Punch



Malco 56 Tooth Sawblade

TOOLS



High Tension Hacksaw Frame



18 T Carbon Steel Hacksaw Blade



SDL50 - Sider Dutchlap 5"



SD50 - Sider Double 5"



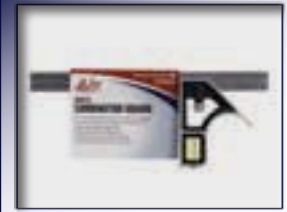
10" Measuring Wheel



25' Tape Measure



30' Magnetic Tape Measure



12" Combination Square



24" Aluminum Framing Square



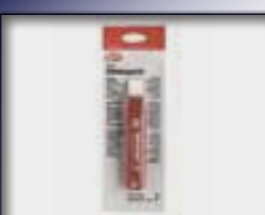
Speed Chalk Reel



8oz. Blue Powdered Chalk



Sockets - 1/4", 3/8", 5/16"



SRT2 Side Swiper II



Igloo® 5 Gallon Cooler



Igloo® 3 Gallon Cooler



Condura Softcap Knee Pads



Two Bag Suede Apron

NOTES



NOTES



**The *Greener* Choice for Your
Roofing and Building Systems!**

TRIAD CORRUGATED METAL, INC.

208 LUCK ROAD ASHEBORO, NC 27205

PHONE: 336 625 9727 • FAX: 336 625 9722

WWW.TRIADMETALROOF.COM