Metal Roofing Product Guide

> 2013–2014

Locations

Metal Roofing Systems

Panel Systems

Professional Services

Roofing Metals

Accessories

Tools

Machinery

NB HANDY
The Preferred Choice

Morris Ginsberg
an N.B. Handy Company

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Locations

Sentrigard Metal Roofing Systems

Regional Sales Office
4625 Alexander Drive, Suite 135
Alpharetta, GA 30022
(770) 667-0463
(770) 667-0493 FAX
(877) 495-7663 TOLL FREE
www.sentrigard.com

N.B. Handy Branches

Lynchburg, VA
3105 Odd Fellows Road
Lynchburg, VA 24501-5009
434-847-2498
434-847-2469 FAX
800-925-6242 TOLL FREE

Norfolk, VA
4840 Brookside Court, Suite 100
Norfolk, VA 23502-2052
(757) 857-8300
(757) 857-8307 FAX
(800) 283-6242 TOLL FREE

Richmond, VA
7437 Ranco Rd.
Richmond, VA 23228
(804) 354-9576
(804) 354-9599 FAX
(800) 288-6242 TOLL FREE

Roanoke, VA
2836 Mary Linda Ave. NE
Roanoke, VA 24012
(540) 343-2467
(540) 345-9655 FAX
(800) 289-6242 TOLL FREE

Charlotte, NC
2920-B Hutchison-McDonald Road
Charlotte, NC 28269-4227
(704) 921-1230
(704) 921-2990 FAX
(800) 365-6242 TOLL FREE

Greensboro, NC
203 Citation Court
Greensboro, NC 27409-9026
(336) 668-0092
(336) 668-9877 FAX
(800) 678-6242 TOLL FREE

Raleigh, NC
5120 Trademark Drive
Raleigh, NC 27610-3024
(919) 212-2090
(919) 231-1775 FAX
(800) 456-6242 TOLL FREE

Columbia, SC
110 Archive Court
West Columbia, SC 29169-5756
(803) 791-0900
(803) 791-5900 FAX
(800) 849-8557 TOLL FREE

Greenville, SC
#7 Commercial Drive
Greenville, SC 29607-3233
(864) 235-3470
(864) 235-5229 FAX
(800) 727-6242 TOLL FREE

Atlanta, GA
2980 Evergreen Dr., Suite 100
Duluth, GA 30096-5842
(678) 225-0012
(678) 225-0020 FAX
(800) 716-6242 TOLL FREE

Morris Ginsberg Branches

Baltimore, MD
222 S Eden Street
Baltimore, MD 21231
(410) 675-3340 FAX
(800) 875-7826 TOLL FREE

Hanover, MD
7495 Race Road
Hanover, MD 21076
(410) 675-3340
(800) 875-7826 TOLL FREE

Chantilly, VA
3920 Stonecroft Blvd. Suite A
Chantilly, VA 20151
(571) 485-4595 FAX
(866) 765-8556 TOLL FREE

sentrigard
metal roofing systems
Better product. Better process. Better results.
Innovation in contractor-manufactured metal roofing systems

Revolutionizing contractor-manufactured metal roofing

When commercial metal roofing projects are properly executed, the results are lasting beauty with little maintenance. The wrong choice of roofing material can make the difference between a successful job and tremendous problem. Our extensive product knowledge and industry expertise brings value to every project. We offer a complete line of architectural metals and accessories including Sentrigard Metal Roofing Systems, SentriClad coil and sheet, copper coil and sheet, stainless steel and more.

Manufactured on the Schlebach Quadro-Plus rollformer, Sentrigard Metal Roofing Systems redefine the standard for site-fabricated metal roofing. The Quadro-Plus gives you the flexibility of on-site fabrication of multiple profiles and the quality of in-plant manufacturing on a single rollforming machine.

From residential to commercial, and from architectural to structural, Sentrigard Metal Roofing Systems meet the challenge for any type of building design. Sentrigard systems feature panel assemblies that meet the most stringent testing requirements and ensure long-term performance.

Sentrigard Metal Roofing Systems exclusively feature Sentriclad® Architectural Metals. Sentriclad Architectural Metals are offered in 28 colors, made from durable alloys of GALVALUME® and aluminum, and Kynar® 500 finish is standard on all material.

Sentrigard Metal Roofing Systems are exclusively distributed through N.B. Handy Company and Morris Ginsberg & Co. (an N.B. Handy Company). N.B. Handy has been a market leader in architectural sheet metal products and machinery for more than 100 years.

Better product. Better process. Better results.

sentrigard
metal roofing systems

On-site fabrication: Bringing the solution closer to the job

The ability to take manufacturing to the jobsite has become critical for efficient metal roofing fabrication and installation and Sentrigard Metal Roofing Systems offer the flexibility to produce all panels at your facility—or the jobsite.

Sentrigard Metal Roofing Systems reduce storage and theft concerns while eliminating those of material handling and delivery. Jobsite rollforming also allows panels of extreme length to be manufactured on-site where shipment of panels is not practical or cost effective.

Best of all, Sentrigard Metal Roofing Systems give you a unique ability to respond to any unanticipated needs as even the simplest jobs never go exactly as planned.

Construction demands are tougher and timelines are tighter than ever. The capacity to manufacture panels on site gives you the ability to meet tough construction demands while manufacturing a quality metal roofing system.

Quick change artist: One machine handles a multitude of profiles

The Schlebach Quadro-Plus is a rollforming workhorse with unlimited possibilities. By teaming the Sentrigard Metal Roofing Systems with the Quadro rollforming machine, you can make multiple panel profiles and allow your company to have one machine for all of your installations. The Quadro can be used at your shop or transported to the jobsite.

With the durable Quadro-Plus, you can zip through 10 different profiles in minutes, instead of hours. The simplicity of the Quadro-Plus allows you to convert most profiles with a flip of a cassette. The revolutionary Schlebach Quadro-Plus produces perfectly rollformed panels for 1" and 1.5" mechanical lock, snap lock, nail strip, 1.75" snap lock, and 2" structural mechanical lock, plus 1" flush panels.

Quadro-CINCO

Quadro-Plus

The Quadro-Plus has always had the most advanced rollforming technology in the industry and is available with the CINCO (Computer Integrated Notching and Cutting Operation) accessory components to make the world's first portable rollformer with an inline notching and angle cutting system that's fully integrated with advanced roof design software.

The contractor-manufacturer can produce precise machine-cut and angled roof panels directly from site-verified dimensions using Top View™ 3D roof design software. The data is loaded directly into the CINCO's exclusive control and run precisely as designed and adapted to the real roof dimensions, even on the fly for optimal accuracy. All panels may be machine cut for higher part quality and better appearance.

The Quadro-Plus is sold and serviced exclusively through N.B. Handy Company and Morris Ginsberg Supply.

Panel Systems

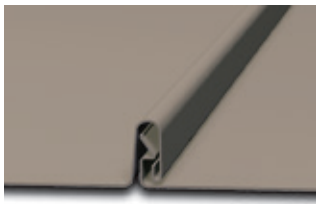
www.sentrigard.com

NS100–1" Nail Strip Panel

- Low profile architectural standing seam metal roofing system
- Ideal for residential and light commercial applications

NS150–1.5" Nail Strip Panel

- Architectural standing seam metal roofing system
- Ideal for residential and light commercial applications



SL100–1" Snap Lock Panel

- Low profile architectural standing seam metal roofing system
- Ideal for residential and light commercial applications

SL150–1.5" Snap Lock Panel

- Architectural standing seam metal roofing system
- Ideal for residential and light commercial applications

SL175–1.75 " Snap Lock Panel

- Structural standing seam metal roofing system
- Commercial profile for multiple deck and slope applications

ML100–1" Mechanical Lock Panel

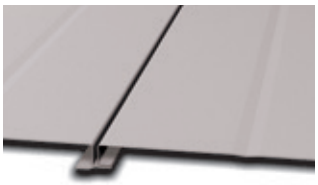
- Classic low profile architectural standing seam metal roofing system
- Ideal for residential and light commercial applications

ML150–1.5" Mechanical Lock Panel

- Classic architectural standing seam metal roofing system
- Ideal for residential and light commercial applications

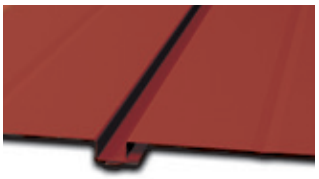
ML200–2" Mechanical Lock Panel

- Structural standing seam metal roofing system
- Commercial profile for multiple deck and slope applications



FP100–1" Interlocking Flush Panel

- Flush panel system designed for use in soffit, mansard, and wall application



FPR100–1" Flush Panel with Reveal

- Flush panel system designed for use in soffit, mansard, and wall applications

sentriclad architectural metals

Core Colors

Colonial Red*Δ
SR: .34 IE: .86 SRI: 35

Terra Cotta*Δ
SR: .39 IE: .84 SRI: 41

Banner Red*Δ
SR: .42 IE: .84 SRI: 45

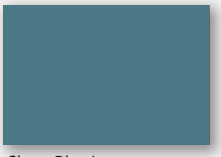
Brandywine*
SR: .26 IE: .85 SRI: 24

Patina Green*Δ
SR: .29 IE: .87 SRI: 29

Classic Green*
SR: .26 IE: .84 SRI: 24

Hartford Green
SR: .10 IE: .82 SRI: 2

Regal Blue*
SR: .28 IE: .86 SRI: 27

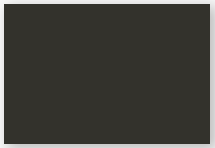

Slate Blue*
SR: .26 IE: .85 SRI: 24

Stone Gray*Δ
SR: .36 IE: .84 SRI: 37

Slate Gray*Δ
SR: .37 IE: .86 SRI: 39

Charcoal*Δ
SR: .32 IE: .85 SRI: 32

Matte Black*
SR: .27 IE: .86 SRI: 26


Dark Bronze*
SR: .26 IE: .84 SRI: 24

Mansard Brown*Δ
SR: .29 IE: .86 SRI: 29

Medium Bronze*Δ
SR: .30 IE: .87 SRI: 31

Sierra Tan*Δ
SR: .35 IE: .86 SRI: 37

Surrey Beige*Δ
SR: .40 IE: .86 SRI: 43

Sandstone*Δ
SR: .54 IE: .86 SRI: 63

Almond*Δ
SR: .63 IE: .86 SRI: 75

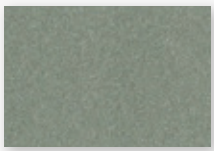
Bone White*•
SR: .72 IE: .84 SRI: 87

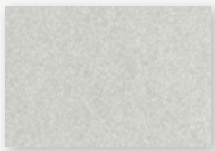
Regal White*•
SR: .68 IE: .86 SRI: 82

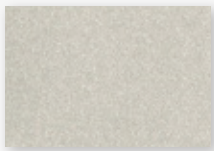
Stone White*Δ
SR: .61 IE: .85 SRI: 72

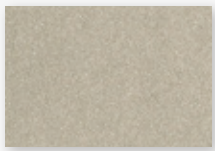
SR = Solar Reflectivity
IE = Initial Emissivity
SRI = Solar Reflective Index

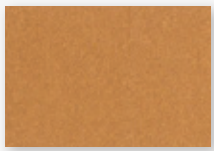
Metallic Colors†


Pewter*Δ
SR: .36 IE: .85 SRI: 38


Bright Silver*Δ
SR: .60 IE: .77 SRI: 68


Silversmith Δ
SR: .53 IE: .78 SRI: 59


Champagne*Δ
SR: .37 IE: .83 SRI: 38


Bright Copper*Δ
SR: .49 IE: .85 SRI: 55

† Featuring a pearlescent appearance mica finish; subject to premium pricing.
Colors shown are as close to actual colors as allowed by the printing process. Actual metal samples are available.
Colors may appear different when viewed at different angles and under different lighting conditions.
Due to product improvements, changes and other factors, we reserve the right to change or delete information herein without prior notice.

ENERGY STAR

* ENERGY STAR® approved.
• LEED® compliant.
Δ LEED® compliant for steep slope only.

Testing & Warranties

www.sentrigard.com

Tried and True

Sentrigard panel assemblies have been through rigorous testing to ensure optimum performance in a wide range of conditions, including the tough High Velocity Hurricane Zone (HVHZ) performance criteria. The HVHZ certification is composed of two tests, both for wind uplift and air and water infiltration.

Sentrigard Metal Roofing Systems have identified the state of Florida's test protocols as the most proactive and stringent testing requirements for structural and non-structural (architectural) metal roofing systems. Sentrigard Panel Assemblies are tested in accordance with the following Florida Test Application Standards (TAS): TAS 100-95 – Test Procedure for Wind and Wind Driven Rain of Discontinuous Roof Systems; TAS 125-03 – Standard Requirements for Metal Roofing Systems. Panel profiles that have passed both test protocols are by law approved for use in High Velocity Hurricane Zones. Sentrigard Metal Roofing Systems Association is Miami-Dade County Product Control Approved.

You can be confident with Sentrigard systems because of our testing, but we further back our commitment with our exceptional Sentrigard Weather Tight warranty program.

	HVHZ RATED	NON-HVHZ	FLORIDA PRODUCT APPROVAL	MIAMI-DADE COUNTY APPROVED	RADIUS CURVING	SOLID SUBSTRATE	OPEN FRAMING	SNAP SEAM	MECHANICAL LOCK SEAM	WEATHER TIGHT WARRANTY	CLIP	CLIPLESS	TAS 100	TAS 125
ML100	✘	✘	✘	✘	✘	✘			✘		✘		✘	✘
ML150	✘	✘	✘	✘	✘	✘			✘	✘	✘		✘	✘
ML200	✘	✘	✘	✘		✘	✘		✘	✘	✘		✘	✘
SL100	✘	✘	✘	✘		✘		✘			✘		✘	✘
SL150	✘	✘	✘	✘		✘		✘		✘	✘		✘	✘
SL175	✘	✘	✘	✘		✘	✘	✘		✘	✘		✘	✘
NS100		✘	✘			✘		✘				✘		✘
NS150	✘	✘	✘	✘		✘		✘				✘	✘	✘
FP100						✘	✘					✘		
FPR100						✘	✘					✘		

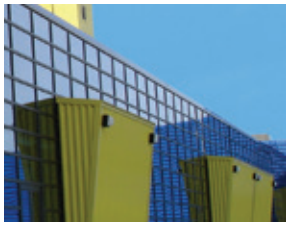
Sentriclad Specifications

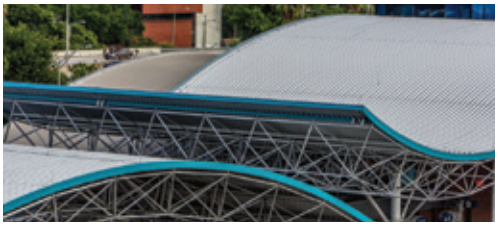
- Choose from 28 different colors from Sentriclad architectural metals
- Finish coating is a 70% Kynar 500/Hylar 5000 paint finish that is applied to the metal substrate on a continuous, reverse roll coat paint line
- Finish is a premium baked-on coating specifically designed to meet the functional and aesthetic requirements of many architectural, industrial, and commercial construction applications
- Metal substrate availability includes GALVALUME (AZ50) steel and 3000 series aluminum
- Primary gauges include 24 ga GALVALUME and 032, 040 aluminum
- Sentriclad finish carries a 30-year limited warranty
- Sentriclad can be incorporated into LEED specified architecture, has earned the ENERGY STAR designation, and is available in "Cool Colors"

FABRAL®

Pushing the Envelope

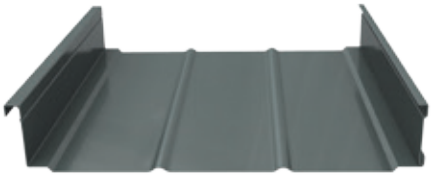
As the leader of metal for building envelope solutions, we push the envelope. To us, metal is more than a commodity. It's a design tool. Each Fabral® system brings a different look, function and benefit. Our wide color selection ranges from in-stock standard colors to specialty finishes or completely custom. We provide a complete range of accessories and system components. That's why we can confidently call ourselves the total building envelope solution.





Panel Systems

Standing Seam Systems



Stand 'N Seam®

- High-performance, structural standing seam roof system for the most demanding application
- Highest wind uplift resistance of any standing seam panel on the market
- Unique one-piece stainless steel clip design allows for unrestricted thermal movement
- Side joints are double lock-seamed for weather tightness
- Can be factory or field formed for long panels without end laps

PowerSeam™

- Mechanical seamed structural standing seam panel
- 90° and 180° seaming available
- 180° seam only available in 24 ga
- Concealed two-piece panel clip allows for thermal expansion
- Multiple wind uplift tests including FM, ASTM E1592, and UL90
- Can be tapered and field formed

Thin Seam

- Engineered snap-together, high-performance panel
- Panel legs continuously interlock together (not just to the clip) for added strength
- Multiple wind uplift tests including ASTM E1592 and UL90
- Available with batten and butterfly clip
- Can be tapered and field formed

Slim Seam®

- Economical, high-performance standing seam design
- Unique one-piece stainless steel clip allows for unrestricted thermal movement
- Panel legs continuously interlock together (not just to the clip) for added strength
- Multiple wind uplift tests including ASTM E1592, UL60 (aluminum), and UL90 (steel) ratings

2 1/2" SSR

- Classic style with narrow batten seams
- Designed for durability against rain, snow, and wind
- Concealed clip fastening system
- May be disassembled without damaging panels or caps

Snap-On-Seam

- Classic snap-on-seam two-component design
- Concealed clip allows for unlimited thermal movement
- Panel can be curved to a minimum 5' 0" radius
- Must be installed over a solid substrate
- Panels can be tapered (without stiffening beads and shadowlines)

Snap-On-Seam High Profile

- High profile snap-on-seam
- 1.75" nominal seam height using a 1" seam cover
- Non-integral two-piece construction
- Concealed clip allows for thermal movement
- UL Class A fire rated
- Panels can be tapered

FABRAL® Panel Systems

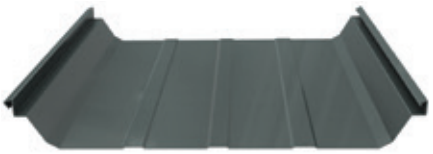
Standing Seam Systems

High Seam

- Economical snap-together standing seam panel
- Non-structural design must be installed over solid substrate
- 1.5" nominal seam height
- Concealed clip allows for thermal movement
- UL90 rated over plywood
- Panels can be tapered (without stiffening beads and shadowlines)

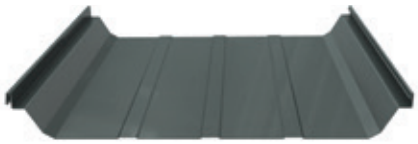
Snap-On-Batten

- Classic snap-on wide batten design providing bold aesthetic design
- Concealed clip allows for unlimited thermal movement
- Must be installed over a solid substrate



IP Seam 3

- Classic mechanical seamed trapezoidal panel design
- Designed for low slope industrial applications and high-performance pre-engineered metal buildings
- 3" nominal seam height, 24" seam centers
- 180° and 360° seaming available



IP Snap 3

- Classic engineered snap-together trapezoidal panel design
- Designed for low slope industrial applications and high-performance pre-engineered metal buildings
- 3" nominal seam height, 24" seam centers
- Concealed clip allows for thermal movement

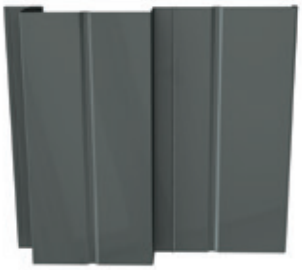
Concealed-Fastener Systems

Silhouette HCF Series™

- 12 profiles available
- Horizontal concealed fastener wall panel design featuring multiple profile configurations and one to four ribs
- Screw flange and clip system option in 0.032"–0.050" aluminum; 18–24 ga steel; smooth or stucco embossed
- Expandable closure strips, mitered corners, inside cover plates, 12" and 16" panel widths

Select Series® 12

- Classic concealed fastened flush panel design
- Ideal for long spanning walls, equipment, screens, fascias and/or soffit applications
- Aesthetically pleasing for architectural, commercial and industrial applications
- 1 1/2" depth is stronger and spans greater distances than 1" panels
- Various stiffening bead patterns can be mixed and matched for additional aesthetic designs
- Profile can be used with Select Series 612 panel variation for additional aesthetic designs
- Concealed fastened panel utilizing a screw flange requires no panel clips
- Factory applied sealant is available
- Panels can be perforated upon special request
- Panels can be swedged for end lapping

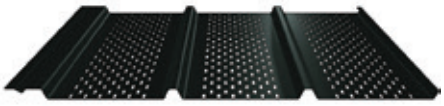


Select Series® 612

- Classic six up six down wall panel design
- Ideal for long spanning walls, fascias, equipment screens and/or soffit applications
- Aesthetically pleasing for architectural, commercial and industrial applications
- 1 1/2" depth is stronger and spans greater distances
- Profile can be used with Select Series 12 panel variation for additional aesthetic designs
- Concealed fastened panel utilizing A screw flange requires no panel clips
- Factory applied sealant is available
- Panels can be swedged for end lapping

Décor-Flush®

- Ideal for soffits, fascias, and vertical wall applications
- Concealed fasteners for maximum aesthetic value
- Factory-applied sealant at side joint
- Pencil grooves available

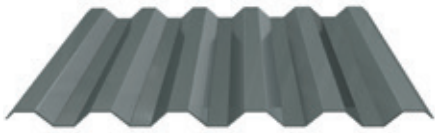


Posi-Lock Soffit

- .032" aluminum and 24 ga steel are standard
- Interlocking design with concealed fasteners allows for fast and economical installation
- Available solid or vented (9.2% open area)

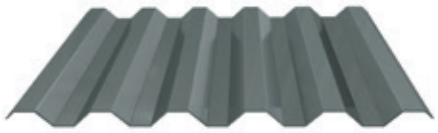
FABRAL® Panel Systems

Exposed Fastener Systems



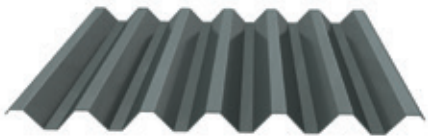
Hefti-Rib®

- Ideal for wall and roof applications
- 7.2" rib pitch allows best strength-to-weight ratio
- Class 4 impact rating and Class A fire rating
- Curved rib and mitered corners available
- .032", .040" and .050" aluminum and 26, 24, 22, 20, and 18 ga steel are available in smooth or stucco-embossed finish
- Diaphragm capacity per ICBO Evaluation Report



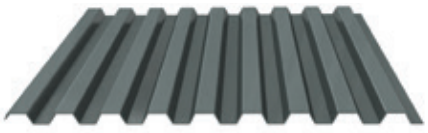
HR-288

- Lighter gauge commercial and industrial wall or long span roofing panel
- Ideal for carports, walkway canopies, and eyebrow canopies
- Made of silconized modified polyester painted GALVALUME AZ-50 (aluminum-zinc coated steel) and mill finished GALVALUME Plus AZ-55
- 28.8" coverage based on a 43" coil feed
- 26 ga steel available



V-Beam

- Available in .032", .040", and .050" aluminum
- Available in 24, 22, 20, and 18 ga steel (panel width is 33-7/8" with 32" coverage)
- Exceptional strength and spanning capability
- Diaphragm capacity per ICBO Evaluation Report



4" Rib

- Ideal for heavy industrial and lagging applications
- Available in .032", .040", and .050" aluminum
- Available in mill finish, alclad, or painted
- Available in 24, 22, and 20 ga steel (panel width is 35-9/16" with 32" coverage)
- 8" rib available upon request

Deep Rib II

- Ideal for wall and roof applications
- Available in .032", .040", and .050" aluminum (43-7/8" panel with 40" coverage)
- Available in 22, 20, and 18 ga steel

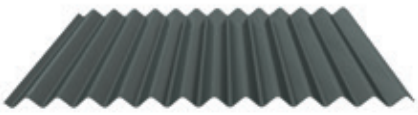
Deep Rib IV

- Bold rib design is ideal for walls and roofs
- 4" deep ribs provide excellent strength and spanning capacity
- Excellent for applications with large spans between structural framing members
- Available in 22, 20, and 18 ga steel and .032", .040", and .050" aluminum

Exposed Fastener Systems

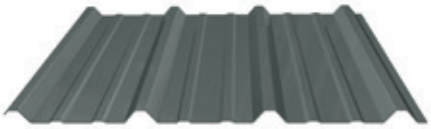
1/2" Corrugated

- Economical and versatile wall or roof panel
- Can be perforated for acoustical applications
- Standard 13.3% open area (1/8" diameter holes on .325" staggered centers)
- Class 4 impact rating and Class A fire rating
- Curved panels and mitered corners available
- Available in .032, .040, .050 aluminum in various widths



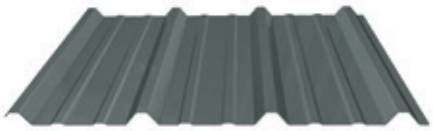
7/8" Corrugated

- Bolder look for exterior and interior uses
- Can be perforated for acoustical applications
- Standard 13.3% open area (1/8" diameter holes on .325" staggered centers)
- Class 4 impact rating and Class A fire rating
- Curved panels and mitered corners available
- Available in .032, .040, .050 aluminum in various widths
- Available in 26, 24, 22, 20, and 18 gauge steel in various widths



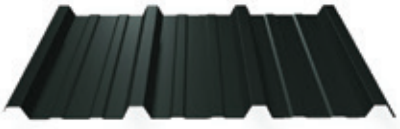
Mighti-Rib® PBR

- Excellent for commercial and industrial applications requiring economy
- 26 through 18 ga steel
- UL90 rating when attached to steel purlins
- Available unpainted or finished with high-performance Super Alurite® paint system in 26 ga and PVDF in heavier gauges
- Aluminum available upon request
- Diaphragm capacity per ICBO Evaluation Report



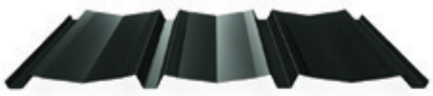
R-Panel

- Economical commercial and industrial wall panel
- Ideal for metal buildings, light commercial structures, and modular buildings
- Made of polyester painted GALVALUME AZ-50 (aluminum-zinc coated steel) and mill finished GALVALUME Plus AZ-55
- 36" net coverage based on a 41.5625" coil feed
- 1.25" high major ribs on 12" center with intermediate ribs for added strength and durability
- 26 ga steel available



Ultra Rib®

- 26 ga industrial quality steel or AZ50 (painted) and AZ50 (unpainted) coatings
- Ideal for commercial and industrial applications
- Purlin bearing leg
- Aluminum available upon request

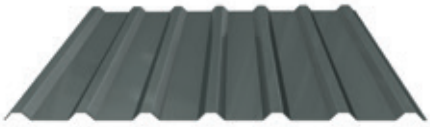


W-Panel

- Economical commercial and industrial wall panel (do not use as roofing panel)
- Ideal for metal buildings, light commercial structures, modular buildings, and mini storage interior partition walls
- Made of polyester painted GALVALUME AZ-50 (aluminum-zinc coated steel) and mill finished GALVALUME Plus AZ-55
- 1-5/16" high major ribs at 12" centers
- 26 ga steel available

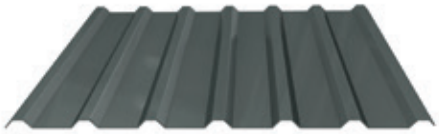
FABRAL® Panel Systems

Exposed Fastener Systems



PBU-Panel

- Economical commercial and industrial roof and wall panel
- Ideal for mini storage partition wall panels and back side parapet wall covering
- Purlin bearing leg ensures proper attachment and lap engagement
- Panel can be reverse run for wall applications and may be used in vertical or horizontal orientation
- 26 ga steel available



U-Panel

- Economical commercial and industrial wall panel
- Ideal for metal buildings, light commercial structures, modular buildings, and mini storage interior partition walls
- 36" net coverage based on a 41.5625" coil feed
- 3/4" high major ribs at 6" centers
- 26 ga steel available

LP-15 Liner Panel

- Perfect for field-assembled projects requiring insulated walls and roofs
- Panel legs allow for easy attachment of subgirts
- Factory-applied sealant in overlapping rib ensures weather tight assembly
- Can be perforated for acoustical applications
- For aluminum liner applications, subgirts must be through-fastened to structural girts
- Thermal and acoustical test reports available
- Consult Fabral for availability of LP-25 (2.5" deep liner panel)

Core Colors

Colonial Red*Δ SR: .34 IE: .86 SRI: 35	Brandywine* SR: .26 IE: .85 SRI: 24	Patina Green*Δ SR: .29 IE: .87 SRI: 29	Classic Green* SR: .26 IE: .84 SRI: 24	Hartford Green SR: .10 IE: .82 SRI: 2
Regal Blue* SR: .28 IE: .86 SRI: 27	Slate Blue* SR: .26 IE: .85 SRI: 24	Stone Gray*Δ SR: .36 IE: .84 SRI: 37	Slate Gray*Δ SR: .37 IE: .86 SRI: 39	Charcoal*Δ SR: .32 IE: .85 SRI: 32
Matte Black* SR: .27 IE: .86 SRI: 26	Dark Bronze* SR: .26 IE: .84 SRI: 24	Mansard Brown*Δ SR: .29 IE: .86 SRI: 29	Medium Bronze*Δ SR: .30 IE: .87 SRI: 31	Sierra Tan*Δ SR: .35 IE: .86 SRI: 37
Surrey Beige*Δ SR: .40 IE: .86 SRI: 43	Sandstone*Δ SR: .54 IE: .86 SRI: 63	Almond*Δ SR: .63 IE: .86 SRI: 75	Bone White*• SR: .72 IE: .84 SRI: 87	Regal White*• SR: .68 IE: .86 SRI: 82

SR = Solar Reflectivity
IE = Initial Emissivity
SRI = Solar Reflective Index

Metallic Colors†

Pewter*Δ SR: .36 IE: .85 SRI: 38	Bright Silver*Δ SR: .60 IE: .77 SRI: 68	Silversmith*Δ SR: .53 IE: .78 SRI: 59	Champagne*Δ SR: .37 IE: .83 SRI: 38	Bright Copper*Δ SR: .49 IE: .85 SRI: 55

† Featuring a pearlescent appearance mica finish; subject to premium pricing.
Colors shown are as close to actual colors as allowed by the printing process. Actual metal samples are available.
Colors may appear different when viewed at different angles and under different lighting conditions.
Due to product improvements, changes and other factors, we reserve the right to change or delete information herein without prior notice.

ENERGY STAR

* ENERGY STAR® approved.
• LEED® compliant.
Δ LEED® compliant for steep slope only.

Custom Colors

Can't find your color? Fabral can tackle the most challenging custom color orders, expertly matching your samples for limitless possibilities.

Professional Services

Miami-Dade Certification

Sentrigard panel assemblies have been tested and certified by the Miami-Dade County Building Code Compliance Office through its Product Control Approval System. With its inclusion in the High Velocity Hurricane Zone (HVHZ), Miami-Dade County has the most stringent code requirements of the Florida Building Code and uses its Product Control Approval System to evaluate the standards of products used in construction in Miami-Dade County.

This approval process is recognized at the national and international level and the standards ensure assemblies can withstand the strongest winds, up to 150 mph, in the United States. Testing information on Sentrigard products is available at www.sentrigard.com/testing.

Green Benefits

For architects, engineers, and contractors who are engaged in a green-building project, deciding which products to use can be time-consuming and challenging without clear parameters for measurable energy efficiency and environmental impact. Specifiers and contractors recognize the value of the Miami-Dade County Product Control Division's Green Sustainable Attributes (GSA) program.

This program is available to manufacturers already seeking approvals under the county's standard for high-velocity winds, and for products that meet the GSA checklist standard, verification is placed into the building-code approval as a Green Page. The Green Page can then be placed as a label on the actual product and is listed as an attachment to a product's building code approval. Sentrigard's metal roofing products were prime candidates for the GSA approval thanks to finishes with highly reflective pigments, the recyclability of metal, and Sentrigard's regional manufacturing operations.

N.B. Handy received Miami-Dade GSA approval for Sentrigard metal roofing products in the following categories:

- G1, Solar Reflectance
- G4, Recycled Content, Bio-based Material
- G7, Regionally Manufactured Components

Miami-Dade GSA-approved Sentrigard products include:

Mechanical Lock Panels

- ML100 AH, 1", 0.032 aluminum
- ML100 H, 1", 24 ga steel
- ML150 H, 1.5", 24 ga steel
- ML200 H, 2", 24 ga steel
- ML 200 AH, 2", 0.032 aluminum

Nail Strip Panel

- NS150 H, 1.5", 24 ga steel

Snap Lock Panels

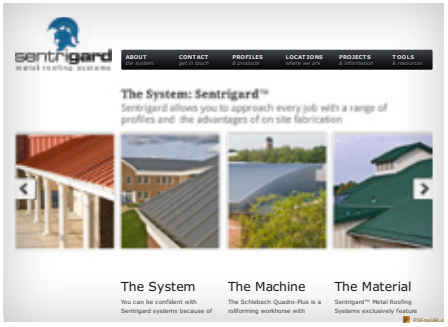
- SL100 H, 1", 24 ga steel
- SL150 H, 1.5", 24 ga steel
- SL175 H, ¾", 24 ga steel

Training and Certification

N.B. Handy offers training programs for qualified contractors who would like to become Certified Installers for Sentrigard Metal Roofing Systems and Fabral Metal Roof and Wall Panel Systems. If you wish to receive information on our Certification and Training Program, please call (877) 495-7663.

Technical Support Services

N.B. Handy's Technical Services Department is committed to response timeliness and consistence in our ability to assist you in pursuing today's unique market opportunities. We are fully staffed with a Registered Roof Consultant (RRC) and Construction Document Technologist (CDT) who can offer technical assistance, resulting in smoother and faster response to customer inquiries. In addition to system and specification development, code testing, and strategic account support, the Technical Department may be contacted for any of the following:



- Project approvals for Weather Tight warranty
- Requests for certification letters
- Code verification
- General specification and detail inquiries
- Detail review/modifications/confirmations
- Shop drawing approval/revisions
- Inquiries concerning special warranties or value-engineered assemblies
- Architectural/consultant design seminars
- Inquiries on energy and green initiatives, LEED and any competitive warranty
- ASCE-7 calculations and code verification (Dade County and International Building Code)

Professional Services

Technical Support Services *(cont.)*

N.B. Handy has made it a priority to provide customers with convenient and comprehensive online access to testing data, timely and critical technical bulletins, detailed product information, and profile drawings.

The following technical resources, documents, and specifications are available at www.sentrigard.com:

- Downloadable Product Evaluation Reports and Load Tables for specific Sentrigard profiles
- Up-to-date technical bulletins featuring high-demand technical topics ranging from installation instructions and field painting to test results and product recycling
- Profile Sheets with specific design information and test report summaries in convenient downloadable PDFs
- Online access to specifications for the Sentrigard Weather Tight warranty as well as warranties for mill aluminum and aluminum-zinc alloy coated steel

Site-specific Engineering

In addition to quality products with impressive testing data, customers have also come to rely on N.B. Handy for comprehensive site-specific engineering services.

- Our engineers are responsible for product testing and provide manufacturer-contractors with wet sealed and stamped engineering documents, calculations, and shop drawings that are specific to the project at hand
- Engineering services include providing wind uplift negative pressures and clip spacing
- For the convenience of our customers, complete turnaround for the engineering and shop drawings on a project is just two weeks

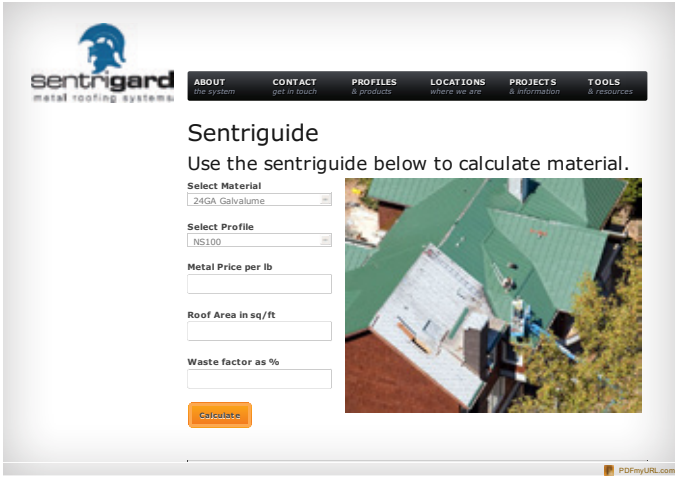
Sentriguide Materials Calculator

Use the online interactive Sentriguide (at www.sentrigard.com/sentriguide) to calculate the materials you need based on your specified:

- Material
- Panel profile
- Metal price
- Roof area
- Waste factor

After entering your project data, the calculator offers the following project-specific information:

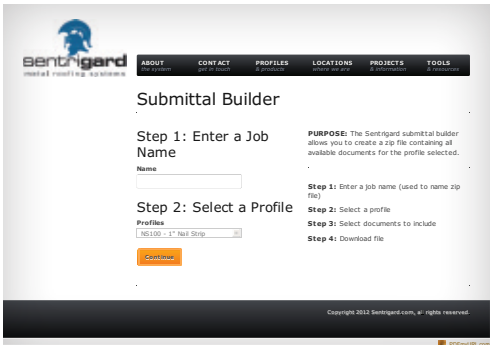
- Metal price per linear foot
- Square footage of coil required
- Linear footage of panels
- Total metal price



Sentriguide Material Calculator also highlights specific relevant data in a Coil Calculator and Clip Matrix to clarify necessary quantities and product selections

Submittal Builder

The Sentrigard Submittal Builder is an online interactive tool that enables customers to create a project-specific submittal online in minutes, including all the relevant documents, product specifications, and technical information. Users can also create additional comments to the cover sheet for a complete, professional package all in one downloaded file.



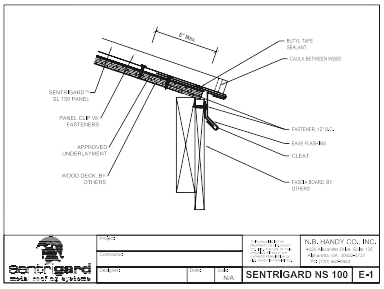
The 4-step process is simple, yet comprehensive:

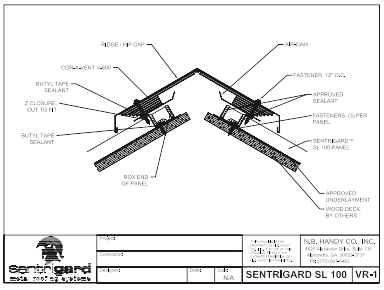
1. Name your project
2. Select a profile
3. Select the documents you want to include in your submittal such as:
   - Profile and Dimension Documents
   - CSI Format Specification
   - Isometric Details
   - Section Details
   - Underlayment Criteria
   - Product Evaluations and Load Tables
   - Sample Warranties
   - Sentrigard system brochures and charts
   - Technical bulletins
4. Download your submittal package as a zip file, directly to your computer for printing and presentation

Customized Details

The only thing better than having all the information and specifications you need available online, is being able to make specific changes to details and create the customized files you need to move forward.

At www.sentrigard.com, designers, builders, contractors, and engineers have access to isometric and section details for all Sentrigard profiles as downloadable PDF files. These details are also available online as DWG and DXF files that can be customized by architects and engineers who use AutoCAD software. With the DWG and DXF files architects and engineers can easily change layers to Sentrigard profiles that are already tested and approved.





Online Warranty

The Warranty Center on sentrigard.com provides the web forms needed to complete all warranty applications online.

Roofing Metals

Sheet & Coil

GALVALUME Sheet & Coil

- Unpainted GALVALUME sheet is often specified for low slope roofing applications where functional performance is the primary consideration and cosmetic appearance is secondary
- GALVALUME sheet has clearly demonstrated its outstanding performance on these applications for over 20 years
- GALVALUME Plus is a bare, GALVALUME sheet product with a thin, clear acrylic coating.
- Specifications: ASTM A792-02
- Resists fingerprints and smudging during handling and installations at the jobsite
- Provides excellent resistance to storage stain and transit corrosion

GALVALUME 26ga Program

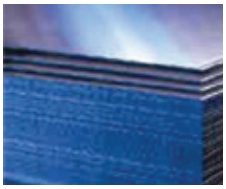
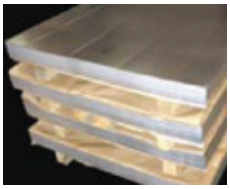
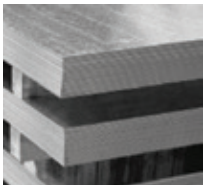
- 26 gauge low-gloss GALVALUME available in Hartford Green, Colonial Red, Dark Bronze, Classic Green, Matte Black, and Slate Gray
- Sizes include 20 and 20" coils and 44.375 x 120 sheet

GALVANNEAL Sheet & Coil

- Galvannealed steel requested as a paint sheet produced with an A-60 coating
- Coating meets ASTM-924, and the galvanized material itself is an ASTM-653 covering lockforming quality
- 100% iron-zinc alloy coating can easily be painted after normal cleaning

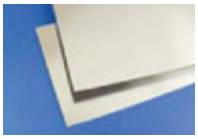
Galvanized Sheet & Coil

- G60 and G90 galvanized are domestically produced and meet the following ASTM specifications: ASTM A-924, ASTM A-653, and ASTM A-653

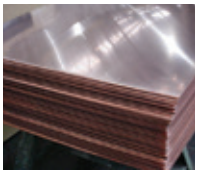
Aluminum Sheet & Coil

- 48" wide
- ASTM B209 Standard Specification of Aluminum Alloy, Sheet & Plate
- References ANSI Standard H-35.2 Dimensional Tolerances for Aluminum Mill Products



Stainless Sheet

- 48" wide
- Type 304-2B stainless meets the following specification: ASTM A240/240M covering austenitic alloy sheets
- Type 304 (18-8 Low Carbon) recommended for welding construction where severe corrosive conditions are encountered



Copper Cold Roll Sheet & Coil

- Used in general building applications such as standing seams, batten seams, flat seam roofs, flashings, soffits, fascias, mansards, copings, skylights, wall panels, bay windows, awnings, downspouts, and gutters

Terne Coated Stainless

Revere Z-T

- Coated on both sides with a unique, patented Z-T Alloy™ (zinc-tin alloy).
- All the advantages of copper or stainless steel with an earthtone gray color.
- Rugged, environmentally friendly and aesthetically appealing for use in virtually all architectural metal applications.

Revere Independence Gray/TCS II/TCS II Satin Z-T Alloy™

- Zinc-tin coated type 304 (non-magnetic) stainless steel, produced per ASTM A240/A240m, A480/A480m
- Microembossed under high-pressure rollers to create a low-reflective surface.
- The chromium-nickel content and the tightly specified satin properties make it one of the most versatile and corrosion resistant roofing and flashing materials available

Revere Freedom Gray

- Zinc-tin coated copper with standard ounce-weight copper conforming to ASTM specification B370
- Cut, bent, formed and installed using the same tools and techniques as mill-finished copper
- A satin finish is factory-applied to FreedomGray to reduce initial reflectiveness and provide a natural, weathered appearance

Painted Metals

				STEEL			ALUMINUM			
Kynar	**SR**	**IE**	**SRI**	**24GA.†**	**22GA.‡**	**18GA.‡**	**.032"†**	**.040"†**	**.050"†**	**.063"†**
Regal White	.68	.86	82	● ■ ▲ ◆	●	●	● ■			●
Bone White	.72	.84	87	●	●	●	●	●	●	
Almond	.63	.86	75	●			●	●		
Sandstone	.54	.86	63	● ■ ▲ ◆	●		●	●	●	
Surrey Beige	.40	.86	43	● ◆	●		●	●	●	
Sierra Tan	.35	.86	37	●			●	●		
Medium Bronze	.30	.87	31	● ■ ◆	●	●	●	●	●	●
Mansard Brown	.29	.86	29	●			●	●	●	
Dark Bronze	.26	.84	24	● ■ ▲ ◆	●	●	● ■	●	●	●
Matte Black	.27	.86	26	●	●		●	●		
Stone Gray	.36	.84	37	●			●			
Slate Gray	.37	.86	39	● ◆			●	●		
Charcoal	.32	.85	32	●	●		●	●		
Slate Blue	.26	.85	24	●			●			
Regal Blue	.28	.86	27	●			●			
Patina Green	.29	.87	29	●			●			
Classic Green	.26	.84	24	● ■	●		●	●		
Hartford Green	.10	.82	2	●			●			
Brandywine	.26	.85	24	●			●			
Banner Red	.42	.84	45	●						
Colonial Red	.34	.86	35	●			●			
Terra Cotta	.39	.84	41	●						
Pewter	.36	.85	38	●			●			
Bright Silver	.60	.77	68	●			● ■			
Silversmith	.53	.78	59	●			●			
Champagne	.37	.83	38	●			●			
Bright Copper	.49	.85	55	● ■			● ■			
Stone White	.61	.85	72	●			●			

† Standard Coil Width is 48.25" ‡ Standard Coil Width is 44.375" ● Available in Standard Coil Width
■ Available in 40.25" Coil Width ▲ Available in 38" Coil Width ◆ Available in 44.375" Coil Width

Width Options

Sheet Width	48.25	40.25	44.375	44.375	40.25	40.25	40.25	40.25	40.25
Slit Coil Width	24, 16	20	22	22	20	20	20	20	20

*Available without drop. All colors available in custom width.

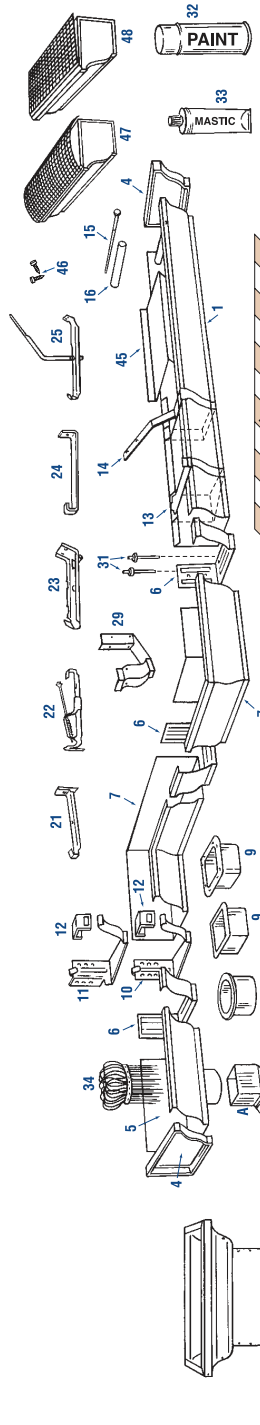
Mill Metals

Galvanized	**Sheet**	**Coil**
28ga	36x120	36
28ga	48x120	48
26ga	36x120	48
	48x120	
24ga	48x120	48
22ga	48x120	48
20ga	48x120	48
18ga	48x120	48
16ga	48x120	48
14ga	48x120	
12ga	48x120	
10ga	48x120	
Galvanneal		
24 ga	48x98	48
	48x120	
22ga	48x120	48
Aluminum		
032	48x120	48
040	48x120	48
050	48x120	48
063	48x120	48
090	48x120	
125	48x120	
TCS II/TCS II Satin Z-T Alloy		
015	3x8	20
	3x10	24
		36
018	3x8	20
	3x10	24
		36
024		24
		36
Freedom Gray		
16oz	3x8	20
	3x10	24
20oz	3x8	
Microflex		
0.015	36x120	
0.018	36x120	36

Galvalume	**Sheet**	**Coil**
26ga	48x120	48.25
	40.25	28
		27.5
		20
24ga	48x120	48.25
		28
		27.5
		24
		20
Stainless		
26ga	48x120	48
24ga	48x120	48
22ga	48x120	48
20ga	48x120	48
18ga	48x120	
16ga	48x120	
Copper (Cold Rolled)		
12 oz	36x120	
	36x96	
16oz	36x120	20
	36x96	24
20 oz	36x96	
	36x120	
24 oz	36x96	
32 oz	36x96	
Copper (Soft)		
16 oz	36x120	12
		14
		16
		18
		20
		24
Copper		
16 oz		11.87
		15

Accessories

Berger K Style Gutter Systems and Accessories



	DESCRIPTION	Galvanized Steel	28 Ga. Galv. Steel	24 Ga. Galv. Steel	26 Ga. Prepaint Steel	Mill Finished Steel	Painted Aluminum .027	Painted Aluminum .032	Copper	Painted Steel	SIZES / NOTES
1	K-Style Gutter	●	●	●	●	●	●		●	●	4", 5", 6", 7", 8" - ✶
2	Square Corrugated Conductor	●	●	●	●	●	●		●	●	2"x2", 2"x3", 3"x4", 4"x5" - ✶
3	Plain Square Conductor	●	●	●	●	●	●		●	●	2"x3", 3"x4", 4"x5", 5"x6"
4	End Caps - Left or Right	●	●	●	●	●	●		●	●	4", 5", 6", 7", 8" - ✶
5	End Section w/ Outlet	●	●		●	●	●		●	●	5"x3"
6	Slip Joint Connector	●	●		●	●	●		●	●	4", 5" - ✶
7	90 Degree Box Miter - Outside or Inside	●	●		●	●	●		●	●	4", 5", 6", 7", 8" - ✶
8	Elbows - A & B Style - Sq. Corr. & Plain Sq.	●	●	●	●	●	●		●	●	2"x2", 2"x3", 3"x4", 4"x5", Custom for Pl. Sq. - ✶
9	Outlet Tube - Oval, Square	●	●	●	●	●	●		●	●	2"x3", 3"x4", 4"x5", 3" Oval, 4" Oval - ✶
10	#40 Fascia Hanger w/ Snap Strap	●	●	●	●	●	●		●	●	4", 5", 6" - ✶
11	#41 Rafter Hanger w/ Snap Strap	●	●	●	●	●	●		●	●	4", 5", 6" - ✶
12	Snap Strap	●	●		●	●	●		●	●	
13	Premium Fascia Hanger w/ Crossbar					●	●		●	●	5", 6"
14	Wrap around Hanger					●	●		●	●	5", 6" - ✶
15	Gutter Spike	●	●				●		●	●	7", 8"
16	Ferrule	●	●			●	●		●	●	4", 5", 6" - ✶
17	Universal Band	●	●	●		●	●		●	●	
18	Square Stamped Sickle Hook	●	●	●		●			●	●	2"x3", 3"x4"
19	Metco Ornamental Conductor Band	●	●						●		3", 4"
20	Heavy Duty Channel Brick Hook	●	●							●	2"x3", 3"x4"
21	Hidden Hanger					●	●				5", 6", 7", 8"
22	Hidden Hanger w/ Screw					●	●				5", 6"
23	Heavy Duty Hidden Hanger					●	●		●		5", 6"
24	Custom Crossbar Hanger	●				●	●			●	5", 6", 7", 8"
25	Roof Bar Hanger w/ Rod & Nut					●	●				5"
26	Sq. Side Fasten / Wire Downspout Hooks									●	3"x4", 4"x5" - ✶
27	U-Bracket Downspout Hanger						●	●		●	2"x3" - Aluminum White Only
28	Conductor Bracket Downspout Hanger						●	●		●	2"x3"
29	90 Degree Strip Miter - Outside or Inside						●	●			5", 6"
30	Funnel	●					●	●		●	3", 4" Round Outlets
31	Pop Rivets						●	●			A-42, A-44
32	Touch Up Paint - 12 oz. Can								●		Call for Available Colors
33	Gutter Mastic - 8 oz. Tube					●	●				Call for Available Colors
34	Round Wire Strainer					●	●		●	●	2", 3", 4", 5", 6"
35	Stamped Drives #0, #4, #6	●	●						●	●	#0 Masonry / #4, #6 Wood
36	Malleable Drive #5	●	●								Wood Drive
37	Key Only					●	●		●		
38	Rack & Key Set					●	●		●		
39A	#14 Ornate Conductor Head, Soldered	●	●						●		3", 4", 5", 6" Oval Outlet - ✶
39B	Federal Conductor Head, Soldered								●		3", 4" Oval Outlets - ✶
40	Plain Tapered Conductor Head, Riveted										3", 4" Oval Outlets, 4"x5" Square Outlet
41	Downspout Tube	●	●						●		2", 3", 4" - Aluminum High Gloss White Only
42	Eave Box - Open, Closed, Sloped	●	●						●		3", 4" Round Outlets - Call for Available Sizes
43	Square Corrugated "Y" Funnel										2"x3", 3"x4"
44	Square Corrugated Cutoff w/ Diverter										2"x3", 3"x4"
45	Gutter Crown Leaf Guard System								●		5", 6", 7", 8"
46	Stainless Steel Self Tapping Hex Screws #8 x 1/2	●	●						●	●	Stainless Steel Compatible w/ all Metals
47	Hinged Gutter Guard					●					5", 6"
48	Drop-In Gutter Guard					●					5"

✶ Note: Not all sizes are available in the materials shown in this chart. Please contact Berger for availability.

Berger Half Round Gutter Systems and Accessories

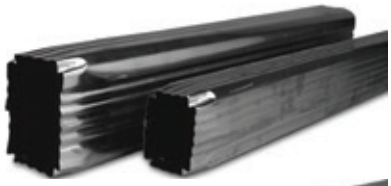
	DESCRIPTION	Galvanized Steel	28 Ga. Galv. Steel	24 Ga. Galv. Steel	26 Ga. Galv. Steel	Mill Finished Steel	Painted Aluminum .027	Painted Aluminum .032	Copper	Painted Steel	SIZES / NOTES
1	Half Round Gutter	●		●	●	●	●		●		4", 5", 6", 7", 8" - ✶
2	Plain or Round Corrugated Conductor		●	●							2", 3", 4", 5", 6", 7" - ✶
3	"C" End Caps	●		●	●	●			●		4", 5", 6", 7", 8" - ✶
4	"D" End Section w/ Outlet	●					●		●		4"x3", 5"x3", 6"x3", 6"x4" - ✶
5	Slip Joint Connector					●			●		4", 5", 6" - ✶
6	90 Degree Box Miter - Outside or Inside	●		●	●	●			●		4", 5", 6", 7", 8" - ✶
7	Elbows - Plain Round or Round Corrugated	●		●		●			●		2", 3", 4", 5", 6" - ✶
8	"B" Outlet Tube					●			●		3", 4", 5", 6" - ✶
9	Wide Flange Round "B" Outlet					●	●				3", 4"
10	Rival Strap Hanger	●				●	●		●		4", 5", 6" - ✶
11	#10 Shank Plate for Fascia Mount	●				●	●		●		
12	Stamped Shanks	●				●	●		●		See Shank Notes
13	Stamped Circle	●				●	●		●		4", 5", 6" - ✶
14	Wire Spring Clips	●				●	●		●		
15	Stamped Extension Shank	●				●	●		●		
16	Stamped Plain Round Sickle Hook	●								●	3" 4" Plain Round
17	Heavy Duty Channel Brick Hook	●								●	3", 4" Plain Round
18	#8 Malleable Shank	●									
19	#10 - 24 x 3/4" Nut & Bolt for Shanks	●							●		
20	Regal Bar Hanger w/ Rod & Nut	●				●			●		5", 6", 7", 8" - Used for Single Bead Gutter
21	Regal Double Bead Bar Hanger w/ Rod & Nut	●				●			●		5", 6", 7", 8" - Used for Double Bead Gutter
22	Ornamental Cast Fascia Hanger					●			●		5", 6" - Cast Aluminum or Cast Bronze
23	Face Mount Hanger w/ Crossbar & Clip	●				●			●		5", 6", 7", 8"
24	Cast Plain Round Sickle Hook								●		4", 6"
25	Hinged Downspout Hook - Plain Round								●		3", 4", 5"
26	Hinged Downspout Hook - Round Corrugated								●		3", 4", 5"
27	#31 Pipe Cleat						●	●			
28	Cutoff w/ Diverter - Round Corrugated						●				3", 4" - High Gloss White Only
29	Hinged Gutter Guard					●					5", 6"
30	Funnel	●							●		3", 4" Round Outlets
31	Pop Rivets						●	●			A-42, A-44
32	Touch Up Paint - 12 oz. Can									●	Call for Available Colors
33	Gutter Mastic - 8 oz. Tube						●	●			Call for Available Colors
34	Round Wire Strainer	●					●		●		2", 3", 4", 5", 6"
35	Stamped Drives #0, #4, #6	●						●	●		#0 Masonry / #4, #6 Wood
36	Malleable Drive #5	●									Wood Drive
37	Key Only						●		●		
38	Rack & Key Set						●		●		
39A	#14 Ornate Conductor Head, Soldered	●							●		3", 4", 5", 6" Oval Outlet - ✶
39B	Federal Conductor Head, Soldered	●							●		3", 4" Oval Outlets - ✶
40	Plain Tapered Conductor Head, Riveted						●		●		3", 4" Oval Outlets, 4"x5" Square Outlet
41	Downspout Tube	●					●		●		2", 3", 4" - Aluminum High Gloss White Only
42	Eave Box - Open, Closed, Sloped	●					●		●		3", 4" Round Outlets - Call for Available Sizes
43	Stainless Steel Self Tapping Hex Screws #8 x 1/2	●					●		●		Stainless Steel Compatible w/ all Metals
44	#10 Combination Circle and Plate	●					●		●		5", 6"

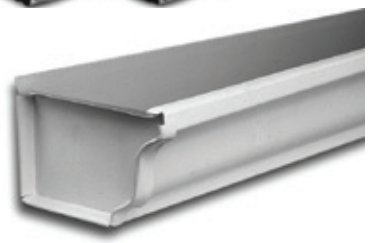
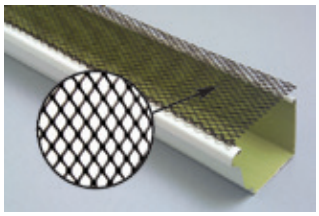
✶ Note: Not all sizes are available in the materials shown in this chart. Please contact Berger for availability.

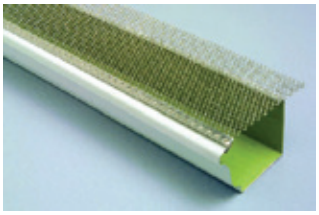
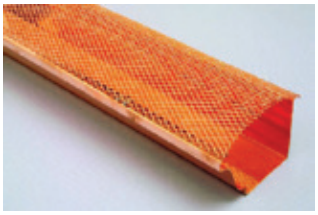
Shank Notes: #1 - for fascia, #6 - for ogee or crown moulding, fits contour, #10- for fascia, #11 - for nailing to rafter, #12 - for nailing to sheeting, #25 - for nailing to sheeting, #30 - adjustable pitch for angled end rafters and fascia

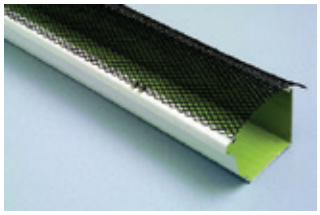
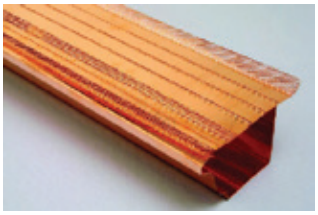
Accessories

Copper, White, Brown, Mill Finish Aluminum, Galvanized & White Steel Gutter, Downspout & Accessories



Gutterseal–Geocel

- Long-lasting results under demanding conditions
- Provides excellent adhesion and durability
- Provides weather and water resistance with minimal shrinkage
- Environmentally compliant with low VOCs
- Seals energy loss areas
- Low odor

Snow Guards

Copper

- Heavy-duty snow guard for corrugated, flat, slate, and asphalt shingled roofs
- Ideal for existing or new construction applications with asphalt shingled roofs
- Available in copper and stainless steel
- Pro 100 design includes 1" gusset that reinforces the shoe, making it five times stronger than traditional residential snow guards
- Tested to withstand a 300 lb. point load at any location when applied to the gusset side of the shoe

Galvanized

- A durable, plated iron casting and bar assembly designed for slate roofs
- Riveted steel bar is 1/8" x 1" x 12" long and goes 8" under the slate and between the slate course
- Also suited for wood shake, tile, and mineral surfaced shingles
- Excellent choice for regions with heavy snowfall

Bronze

- #1 snow guard for standing seam roof
- Designed to mount over the standing seam of a metal roof
- Positioning of Berger snow guards required for effective use:
  - One every 40" over entire roof, or two groups of three staggered rows on 30" centers with one group at the eave and one group midway on roof slope
  - On long slopes, multiple groups with maximum 6' space separation

Aluminum

- Berger RT snow guards are non-penetrating devices secured to the standing seams of metal roofs with stainless steel set screws
- Ideal for double-lock and mechanically seamed metal roofing, and traditional design makes guards perfect for restoration and preservation work
- Require no glues or sealants
- Will not restrict thermal movement or contribute to unsightly oilcanning
- Available in cast aluminum and cast bronze and in two sizes to accommodate differing seam widths

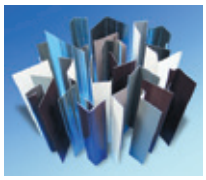
Clear Acrylic

- Berger clear snow guards are manufactured in a crystal clear polycarbonate with U.V. stabilizers
- Snow Brakes clear snow guards are ideal for adhesive attachments and can be attached to any panel having a flat surface as small as 3.5" wide
- Unique vent rib system allows for adhesive out gassing, which increases the shear strength
- 3-to-1 base-to-blade ratio adds significantly to the shear and peel adhesion of the device to the surface

Sealant Adhesive

- SB-190 is a field proven sealant adhesive
- Requires 28 consecutive days (672 consecutive hours) with temperatures of 50°F or greater to cure properly
- Available in 10.3-oz. tubes with 24 tubes per case
- One tube will adhere 8-10 CL snow guards and 14-16 RTMINI guards

Accessories



Drip Edge

- F-styles are available in:
  - Painted and unpainted galvanized steel
  - Mill finished and painted aluminum
  - Copper

Trim Coil

- Standard .019 aluminum trim coil colors in 50' rolls
- Sold only in carton quantities
- 12" width = 2 rolls per carton
- 14" and 24" widths = 1 roll per carton

Underlayments

Sentrigard HT-SA Plus

- SBS modified self-adhering membrane reinforced with non-woven fiberglass mat for extra strength and durability
- Non-abrasive, skid-resistant polyester surface is excellent for use in tile and metal applications
- Silicone-treated, split-back, release film allows for easy installation and handling
- May be installed directly to concrete, plywood, wood composition board, and gypsum in new construction or re-roofing
- Greater tear resistance than traditional felt underlayment
- Offers excellent low temperature flexibility
- May be left exposed up to 90 days prior to application of finished roof

Sentrigard Syn – P

- Synthetic premium underlayment is used under metal roofing installations, shingle, tile, or wooden shakes
- Delivers exceptional weather barrier performance and
- Offers an unsurpassed level of slip resistance with its unique Twistrand technology surface texture
- UV weathering exposure of up to six months for drying in roofs
- Supplied in a 10 square roll
- Sheet width of 4' x roll length of 250', pre-printed with fastening locations

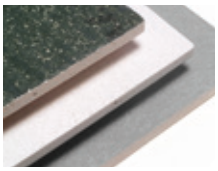
SECUROCK® Gypsum Fiber Roof Board

- Made from 95% recycled material
- Sustainable design has earned independent certification from Scientific Certification Systems
- Exceptional moisture and mold resistant properties scored "10" for mold resistance per ASTM D3273
- Provides excellent fire performance and demonstrates exceptional surface burning characteristics

SECUROCK® Glass-mat Roof Board

- High-performance, fire-resistant roof board designed for use in low slope commercial roofing systems
- Enhances the durability of the entire roofing system when used as a cover board in single-ply, mechanically attached systems

Underlayments

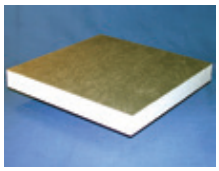


DensDeck® and DensDeck Prime

- Exceptional fire barriers, thermal barriers, and recover boards used in various commercial roofing systems
- Patented design employs glass-mat facings front and back
- Embedded into a water-resistant gypsum core providing excellent resistance to fire, moisture, and wind uplift properties
- FM tested and approved as the only 1/2" gypsum product to meet the calorimeter requirements for conventionally insulated decks
- Tested in accordance with ASTM E84, its surface burning characteristics are Flame Spread-0 and Smoke Developed-0
- DensDeck or DensDeck Prime (5/8" thick) can replace any generic Type X gypsum board in any roof assembly in the UL Fire Resistance Directory under the prefix "P"

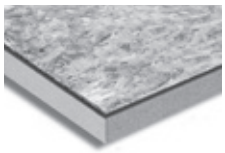
Dow Extruded Roof Insulation (XPS)

- STYROFOAM™ DECKMATE™ Plus extruded polystyrene insulation is designed specifically to provide a higher compressive strength and additional membrane support for conventional low-slope roof applications
- Offers smooth, high-density skins with a closed cellular structure
- Excellent insulating characteristics, low water absorption, and excellent compressive strength
- Meets CAN/ULC S 701 Type 3 and ASTM C 578 Type 4
- Highly resistant to water and water vapor
- Durable and reusable, with dependable and predictable long-term mechanical and thermal performance, even in the most severe environments



InsulFoam® SP

- Advanced roof insulation consisting of a superior closed-cell, lightweight, and resilient expanded polystyrene (EPS) with a durable and stable, factory-laminated fiberglass facer
- Nominal density of 1.25 lb/ft³ (pcf)
- Meets or exceeds the requirements of ASTM C578, Type VIII, Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation



Hunter Panels Polyiso

- Polyisocyanurate HP-H is a foam core insulation board covered on both sides with a medium weight fiber-reinforced felt facer
- Dimensionally stable, durable insulation offers maximum thermal efficiency
- Recommended for use under all Sentrigard and Fabral Metal Roofing Systems
- Carlisle Polyisocyanurate HP-H insulation is UL and FM approved as a system component

Expanded Polystyrene (EPS)

- For flat board insulation, tapered insulation and cricketing, fanfold recover board and special cut sizes (both square and tapered) for flute fill in metal retrofit installations

R-Tech Fan Fold Recover Board

- High-performance, rigid insulation consisting of a superior closed-cell, lightweight, and resilient expanded polystyrene (EPS) with advanced polymeric laminate facers
- Available with factory-adhered metallic-reflective facers, white facers, or a combination of the two

Accessories

Sealants & Caulking

- A polyether caulk specifically formulated to adhere to Kynar finishes in our Sentrigard Metal Roofing Program
- A one-component, non-priming sealant that features an Advanced Polymer technology proven to outperform urethanes and silicone sealants
- Superior weather sealing performance – durability and strong UV-resistance
- Low VOC formulation meets the most stringent State and Federal VOC regulatory requirements
- Cold weather extrudibility – extrudes down to 0°F
- Fast tack-free-time – tack free in 1 hour or less (other technologies can remain tacky for 24 hours or more)
- Excellent joint movement capability – up to 50%
- GreenBuild approved
- Plastic 10.1 oz tube
- 12 tubes/box
- Guns easily down to 0 degrees Fahrenheit
- Available in all 28 Sentriclad colors

Core Colors

Colonial Red	Terra Cotta	Banner Red	Brandywine	Patina Green	Classic Green
Hartford Green	Regal Blue	Slate Blue	Stone Gray	Slate Gray	Charcoal
Matte Black	Dark Bronze	Mansard Brown	Medium Bronze	Sierra Tan	Surrey Beige
Sandstone	Almond	Bone White	Regal White	Stone White	

Metallic Colors

Pewter	Bright Silver	Silversmith	Champagne	Bright Copper

Clips & Fasteners

Intec Floating & Fixed Clips

- Standing seam metal roof clips available in differing gauges and metals for architectural panels, structural panels, snap lock, mechanical lock, and trapezoidal panels
- Rated and un-rated clips, depending on the assembly for snap lock and fixed, float, butterfly, and batten clips for mechanical lock profiles

AMSI Clips

- Standing seam metal roof clips available for a number of panels including: Rollformer, Newtech, Englert, Knudson, Ultraseam, Quadro, SOP, Berridge, and Schlebach

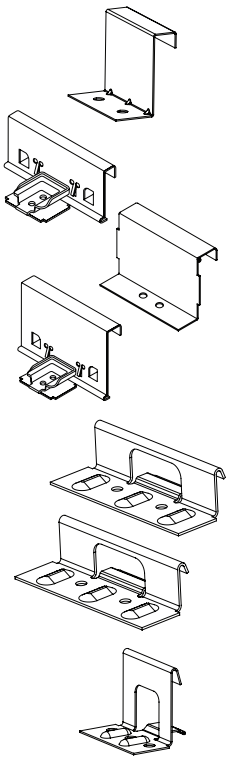
Low Profile Fasteners

- Type A and self-drill pancake head for metal-to-wood and metal-to-metal in Quadrex and Philips drive, #10 and #12
- Low profile and long length for attaching clips using bearing plates through insulation

Bearing Plates

- Galvanized or stainless in 24–18 gauge
- Standard plate sizes of 3" x 4", 4" x 5", 5" x 5", 4" x 6", 6" x 6" with universal hole punch or custom hole punch applications

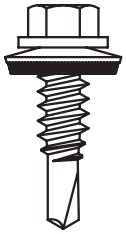
Sentrigard Clips



Panel	Clip Type	Rated/Non	Gauge	Hole	PID	Description	BX. Qty
ML100	Fixed	Rated	24ga	2	ML100R	Rated Fixed Clip for Tested Assemblies - Alum MF	1000
MI100	Fixed	Rated	24ga	2	ML100RSS	Rated for Tested Assemblies - Alum MF	1000
ML150	Fixed	Rated	24ga	2	ML150FXR	Rated Fixed Clip for Tested Assemblies	500
ML150	Floating	Rated	22ga	2	ML150FLR	Rated Floating Clip for Tested Assemblies	80
ML150	Fixed	Non	26ga	2	ML150NR	Economy Fixed ML150 Clip	100
ML200	Fixed	Rated	24ga	3	ML200FXR	Rated Fixed Clip for Tested Assemblies	250
ML200	Floating	Rated	20ga	2	ML200FLR	Rated Floating Clip for Tested Assemblies	80
ML200	Fixed	Non	24ga	3	ML200NR	Economy Fixed Clip	300
SL100	Fixed	Non	24ga	2	SL100NR	Economy Non-Rated SL100 Clip	500
SL100	Fixed	Rated	18ga	2	SL100R	Rated Fixed Clip for Tested Assemblies	200
SL150	Fixed	Non	20ga	3	SL150SNR	Non-Rated SFS Economy Clip	500
SL150	Fixed	Non	20ga	3	SL150NR	Non-Rated Economy Clip	500
SL150	Fixed	Rated	18ga	2	SI150R	Rated Fixed Clip for Tested Assemblies	125
SL175	Fixed	Rated	20ga	3	SL175R	Rated Clip for Tested Assemblies	500
SL175	Fixed	Non	18ga	2	SL175NR	Non-Rated Economy Clip	400
Fastener	N/A	Rated	#10x1"	N/A	CFW150-1	1" & 1.5" Clip Fastener - Wood	250
Fastener	N/A	Rated	#12x1"	N/A	CFW175-2	1.75" & 2" Clip fastener - Wood	250
Fastener	N/A	Rated	#10x1"	N/A	CFS150-1	1" & 1.5" Clip Fastener - Steel	250
Fastener	N/A	Rated	#12x1"	N/A	CFS175-2	1.75" & 2" Clip Fastener - Steel	250

Accessories

Exposed Fasteners



- Galvanized and stainless fasteners, painted and unpainted for all thru-fastened panel applications
- Zac, Woodgrip, WoodZac, Side Lap screws for light gauge to structural requirements
- Full range for any metal roof or wall panel application: washered, washerless, self-drillers, metal-to-metal, metal-to-wood, etc.

Rivets

SentriClad Painted Rivets

- Stainless steel 1/8" x 3/32" #43

Emhart POP® Rivets

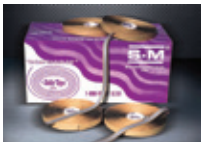
- POP rivets can be set without needing access at the back of the work
- The logical choice in numerous applications where the blind rivet setting feature is not of primary importance
- Low-cost, lightweight, easily portable tools
- Fast, vibration-proof assembly
- No surface marring
- High grip and pull-up strengths

Metal Roof Ventilation

Cor-A-Vent V-600T & V-600TE

- Highest airflow in the industry for nearly every pitch; from 3/12 to 16/12
- Available in 11" and 8-1/2" widths
- 20" NFVA provides superior ventilation
- Radiused peak keeps the ridge well defined
- Available boxed or banded

Sealants & Caulking



Schnee Morehead Butyl/Tacky Tape® SM5229

- 100% solids, asbestos-free butyl tape sealant designed to seal lap-type joints encountered in many industrial fabrication details
- Used to seal and prevent the entry of dust, air, and moisture through details found in HVAC systems, agricultural equipment, sheet metal assemblies, flashing, and marine details where a moldable gasket-like seal for hardware is required
- Easy to apply and compress during installation
- Excellent resistance to water, extremes in temperature, and atmospheric contamination

Schnee Morehead Butyl Sealant

- SM5430 Acryl-R is a non-skinning, non-drying sealant based on a unique elastomer that provides excellent resistance to severe environmental conditions of heat, cold, and moisture
- Excellent adhesion to Kynar 500, GALVALUME Plus, siliconized and polyvinyl fluoride painted metals
- Ideal for wall panels and polyurethane foam panel joints where a positive seal is required in mechanically fixed joints
- Seals the female lip of concealed standing seam roof (SSR) rib

Carlisle Water Cut-off Mastic

- One-component, low viscosity, self-wetting, butyl blend mastic designed to be used in conjunction with roofing and waterproofing systems
- Primarily used as a sealing agent between various membranes and applicable when membrane is being terminated using a compression type seal

Solder/Flux

Sil-Fos 15

- Best alloy for general purpose copper-copper brazing in the Sil-Fos family
- For copper-to-copper joints the phosphorus in the Sil-Fos product serves as the fluxing agent; no separate flux is necessary
- For brass application, flux is recommended
- Where close fit-ups cannot be maintained, Sil-Fos 15 works well to bridge gaps
- Slow flow

Sil-Fos 6

- A very fluid filler metal for close fit-up work
- Low melting range makes it ideal where temperature is a factor
- Fast flow

Flashing

Portals Plus Deck-Mate Pipe Flashing Available in EPDM and Silicone

- Install at all points where 26" or less pipes penetrate the metal roof and wall system
- Either EPDM or silicone (high temperature) compression-molded rubber
- Material has a serviceable temperature range of -60° F to +270° F and is resistant to ozone and ultraviolet rays
- Unit has 1" wide corrosion-resistant flexible aluminum base

Paint

Sentriclad Paint and Paint Pens

- Touch-up paint is an acrylic coating color matched to our standard Sentriclad color offering
- Designed for use on small scratches
- Should be applied with an artist's brush to properly prepared surface areas
- Will weather differently than the standard Sentriclad colors
- Follow directions exactly for best color match

Tools

Scribes

A60

- Measure, mark, and scribe trim lines on sheet metal in one easy operation
- Set desired trim depth on the 1/8" graduated scriber extension and tighten knob
- The stop at the end of the scriber sleeve glides along edge of work as a 6 x 3/8" zip-in sheet metal screw point scribes a clean, hard line
- Adjustable from 1/4" to 12.5" depths

A50

- Solid carbide tip for scribing fine lines on hardened steel as well as glass, ceramics, plastics, or sheet metal
- Retractable tip is easily replaceable

Seamers

Powered Seamers

- For 1", 1.5", 2" seam heights
- Standard duty seamers for 24 ga steel, .032" aluminum, and up to 20 oz. copper
- Heavy-duty seamers for same panel heights up to 22 ga steel and .040 aluminum
- Custom seamers from 1.5" to 3" seam height per customer specifications

Hand Seamers

- Hand seamers and panning tools for first and second stage lock
- Brass inserts will not mar the panel surface
- Panning tools for multiple panel widths

Shears

TurboShear

- Inserts directly into the chuck of a standard 1200 rpm A/C or cordless drill., converting a power drill to power shears
- Cuts straight and to the left and is capable of navigating tight curved patterns and squares in heavy 20 ga galvanized steel
- Blind cuts require only a 1/2" starting hole
- Cutting applications include both ferrous and non-ferrous sheet metals, metal roofing/ building panels, vinyl, steel mesh, ductwork, etc.

Sheet Metal Shears

- Double-cut shears feed quickly and quietly, without warping or bending your finished piece (distortion is in the waste strip)
- Easily follows a scribed line and edges are not hardened or burred, so you get maximum use of a sheet
- Blades' swiping action seals the edge of coated metals
- Able to cut sheet metal up to 18 ga in straight or contour lines at 180" per minute and plastic or Formica up to 3/32" thick

Snap Lock Punches

- Join sheet metal, duct, and pipe sections economically without extra hardware
- Compound handle leverage for maximum ease of operation
- Punch impression spaced 3/8" from edge of metal
- Heavy forged cutting jaw
- Rust-resistant nickel plate and black oxide finishes
- Vinyl grips with hand stops for added comfort and resistance to elements

Snips

Aluminum Handled Andy™ Snip

Sleek styling, easy blade replacement and larger handles make the Andy Snip extremely versatile

- Slim nose is ideal for making cuts in tight material, shapes such as J-channel, and new extended blade tips reach all the way into corners
- Full 3" cutting length makes straight shearing fast and easy

Aluminum Handled Andy Snip Classic

- For users who found the Classic Andy styling to be their ideal fit and feel, this Andy Snip comes with easily replaceable blades
- Full 3-inch cutting length

MAX2000™ Aviation Snip Ergonomic Grip

- Hardened alloy steel blades offer maximum cutting edge life
- Superior material flow and lower profile allows maximum maneuverability
- Fast adjusting, long life pivot bolt and nylon locking nut with pressure washer holds desired adjustment even for repetitive use in heavy gauge metal
- Tips of jaws ground to point allows access in tight quarters
- The ergonomic grip maximizes power stroke of hand

MAX2000™ Aviation Snip Classic Grip

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- Fast adjusting, long life pivot bolt and nylon locking nut with pressure washer holds desired adjustment even for repetitive use in heavy gauge metal
- Tips of jaws ground to point allows access in tight quarters

MAX2000 Aviation Bulldog Snip

- Designed for notching and trimming
- Ideal for cutting multiple layers or “S” cleats
- Riveted handles
- Steel handle shaft extends length of grip

MAX2000 Offset Snip

- The serrated upper jaw of this offset snip offers solid gripping power with less burr
- Ground tips on jaws allow access in tight areas, so that user can easily make nickel-size blind hole cuts
- A full 1.25" cutting length and a cutting plane offset from handles makes trim cuts accessible and efficient

Forged Steel Snips: Regular Pattern

- Regular pattern forged steel snip for straight cutting and wide curves

Forged Steel Snips: Bulldog Pattern

- Bulldog pattern forged steel snip is ideal for straight cuts and notches

Offset Double-cut Snips

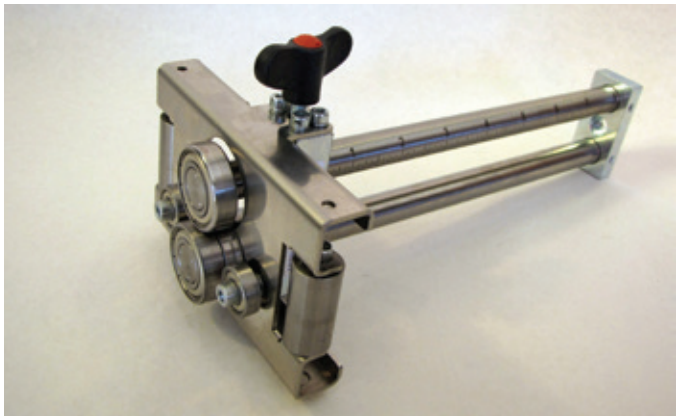
- Double-cut design is ideal for cutting metal pipe or duct and removes a curled strip of metal from path with virtually no surface distortion

Aviation Snips (AVs)

- Forged steel
- Left (AV1) cutting application with red handle
- Right (AV2) cutting application with green handle
- Straight, left, and right (AV3) cutting application with yellow handle
- Left, straight, and tight diameter circles (AV6) cutting application with red handle
- Right, straight, and tight diameter circles (AV7) cutting application with green handle

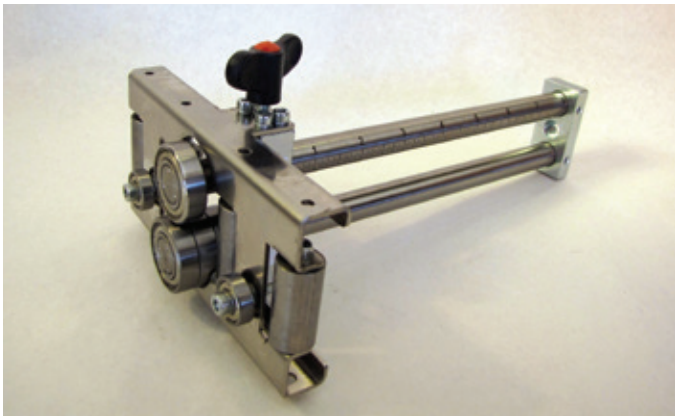
Tools

Benders



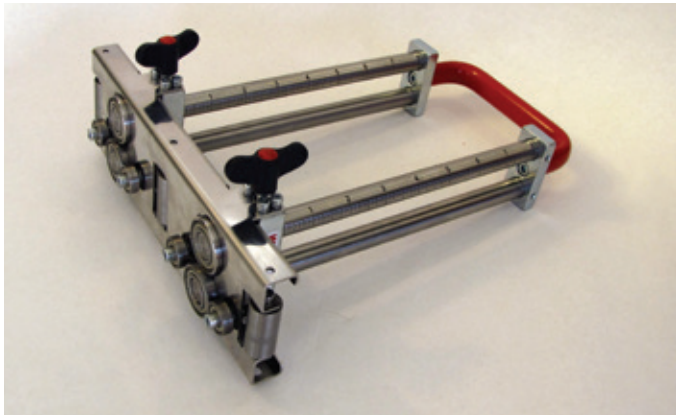
WUKO Uni Bender 2200

- Engineered for bending up
- Bending capacity of 0.80mm/0.0031" (for all common materials)
- Adjust the bending height (5–200/350 mm) with the engraved scale
- Can also be used for bending in different directions as well as for bending radii



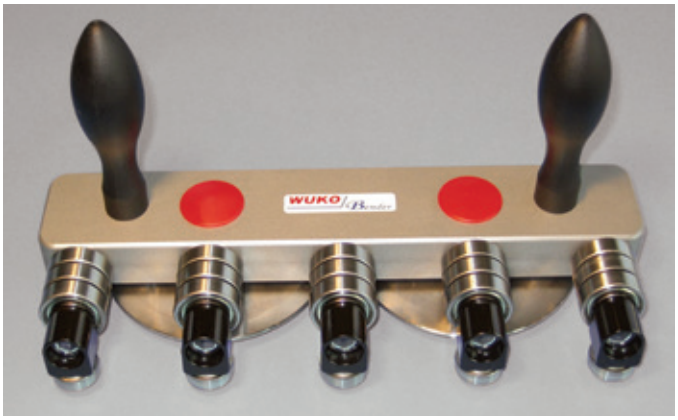
WUKO Uni Bender 2202

- Engineered for bending up
- Bending capacity of 0.80mm/0.0031" (for all common materials)
- Adjust the bending height (5–200/350 mm) with the engraved scale
- Can also be used for bending in different directions as well as for bending radii



WUKO Duo Bender 3200

- Engineered for bending up
- Bending capacity of 0.80mm/0.0031" (for all common materials)
- Adjust the bending height (5–200/350 mm) with the engraved scale



WUKO Disc-O-Bender 4000

- For bending sheet metal legs from 90° up to 180° (hem)
- Bending capacity of 0.031" (for all common materials)
- Very easy to handle with no adjustments
- Provides a clean, precise result without damaging painted or coated material

Machinery

Metalforming

Schlebach Quadro-Plus Rollformer

- Able to produce nine profiles on one machine with minimal changeover, eliminating the need to purchase multiple machines for different profiles
- Produces panels quickly, precisely, and consistently
- Mechanical lock, 1" and 1.5"
- Nail strip 1" and 1.5"
- Snap seam, 1" and 1.5"
- U-panel, 1" and 1.5"
- 1.75" snap lock
- Soffit profile
- 2" structural mechanical lock
- Space between the rollers allows the Quadro-Plus to make tapered panels from 9" to 31.5" on all panels: nail strip, snap seam, and standing seam

Schlebach Quadro-Plus CINCO

- Available with the CINCO (Computer Integrated Notching and Cutting Operation) accessory components to make the world's first portable rollformer with an inline notching and angle cutting system that's fully integrated with advanced roof design software
- Produce precise machine-cut and angled roof panels directly from site-verified dimensions using Top View™ 3D roof design software
- Data is loaded directly into the CINCO's exclusive control and run precisely as designed and adapted to the real roof dimensions, even on the fly for optimal accuracy

Machinery

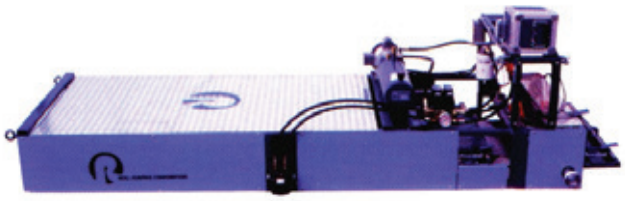
Jorns TwinMatic

- Most modern trim bender in the world
- Never turn a part end to end again
- 3.5 times faster than standard 20' folder
- Fully automated sheet movement- no operator involvement
- Incredibly safe
- Extraordinary bending accuracy of +/- .5 degrees
- Available in lengths of 13', 21', 26', 32', 40'

Schechtl iFold CNC Folder

- Schechtl iFold sheet metal folding systems are unmatched for increased productivity, versatility, cost savings, and the competitive edge for contractors
- Produce everyday parts like copings, gravel stops, gutters, and downspouts, plus complex cornice work, unlimited sign profiles, and even complex boxes
- Schechtl's real-time, interactive, intuitive graphic programming process offers unlimited programmable shapes through the exclusive iFold CNC Control
- Choose from more than a dozen precision automatic Schechtl models in the iFold MAX, MAB, and MAC series family
- Bending lengths of 40", 60", 80", 100", 122", and 159"
- Machines with maximum bending capacities from 22–9 ga

5V Roofing Panel Machine



Roll Former 5V Panel Machine

- The only portable 5V crimp machine in the market
- Popular residential panel
- No clips or seaming required
- 24–29 ga steel, .032 aluminum, 12–16 oz. copper
- Adjustable 14"–28" panel width

Shears

Schechtl Shear

- SMT and MSB shear models come with a unique, full-length telescoping front sheet support that makes it easy for one operator to handle even 5′ or 10′ sheets
- Adjustable support arms with T-slot and scale, stainless steel, removable and adjustable hollow grip areas for easy handling
- Extended squaring arm with in-laid scale
- SMT 3100 – 10', 16 ga shear (.090" alum.)
- MSB 3100 – 10', 14 ga steel shear (.125" alum)
- MSC 3100 – 10', 11 ga steel shear (.175" alum)

Tennsmith LM1010 Mechanical Shear

- Equipped with a standard “GO TO” 30" back gauge system
- The ball screw driven back gauge provides quick, accurate cuts
- Powered by a 12.5 HP gear motor attached to a mechanical linkage for smooth, quiet operation
- Rated at a maximum of 10 ga mild steel and 14 ga stainless steel material with a cutting width of 121"

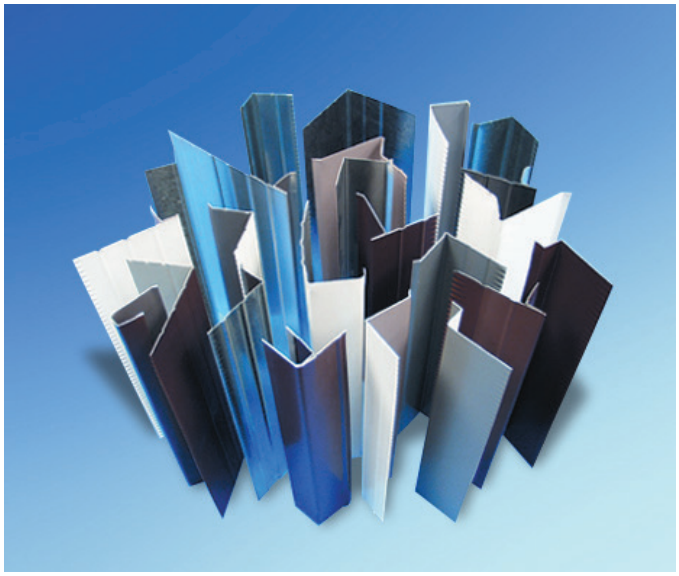
Tennsmith LM1014 Mechanical Shear

- Standard with four-edge, high carbon, high chrome top and bottom blades
- 2x back gauge system allows operator to move the backstop from 0 to 30" in approximately 2 seconds with only two rotations of the handle
- Optional air operated sheet support system is available in two styles:
  - System “R” drops the supported material to the rear of the machine
  - System “F” returns the supported material to the front of the machine via a front return chute
- Handles 14 ga mild steel up to 121"
- 5 HP, 230/460 volts, 3 phase

Machinery

Custom Drip Edge and Flashing Machines

- Custom or made-to-order architectural sheet metal machines include drip edge, inside/outside corner, J-channel, ridge cap, and valley trim machines
- Manufactured in the USA, utilizing 416 grade SS to hardened tool steel forming rolls with or without chrome plating, sealed bearings, and stainless steel shafting
- Typical thickness capacities range from 30–16 ga on steel and .019" to .060" on aluminum



Slitters

Wilder Workhorse Power Slitter Model 1624

- 16 ga capacity
- 24.25" maximum slit width
- Motor: 1/3 HP motor
- Speed: 90 sfm

Wilder Workhorse Power Slitter Model 2024

- 20 ga capacity
- 24.25" maximum slit width
- 3/4 HP motor
- Speed: 90 sfm

Brakes

Tennsmith HBT 72 Universal Hand Brake

- Designed to provide forming capabilities for complex parts such as transverse duct, down flanged parts, as well as architectural sheet metal and signage applications
- Truly a universal hand brake that allows for the removal of upper and lower segments of fingers
- Capacity: 16 ga mild steel and 20 ga stainless steel
- Bending length: 72"

Tennsmith Box and Pan Hand Brake

- Ideal for both box and pan and straight bending in hot and cold rolled plate, stainless steel, aluminum, and heavy plastic
- Features a removable apron insert for 1/4" bends in lighter material
- Upper leaf adjustment screws feature thrust bearings to prevent upper leaf creep
- Ductile steel clamp handles, heavy counterweights, and apron stop rod maximize easy operation
- Removable fingers are case hardened for long service
- Capacity: 12 ga mild steel and 16 ga stainless steel
- Bending length: 48.25"

Slip Rolls

- Combine precision-turned, ground and polished, high carbon steel rolls with heavy-duty, cast iron end frames, and welded steel base to make an accurate and durable forming tool
- Convenient operating features include large roll adjusting screws, scales for speed repeat setup, and front-mounted handle to lift the upper roll for material removal
- Capacity: 22 ga mild steel
- Forming length: 36"

Rotary Machines

Model R22

- Features interchangeable rolls and is a versatile forming tool for the manual performance of numerous sheet metal operations
- Features a solid cast, enclosed frame and smooth meshing machine gears
- Material can be fed through the rolls in either direction by selecting the proper arbor

Model R24

- Provides simultaneous crimping and beading on 24 ga and lighter material
- Standard equipment include ogee bead and crimping rolls, spacers, a hand crank, spanner, and bench stand

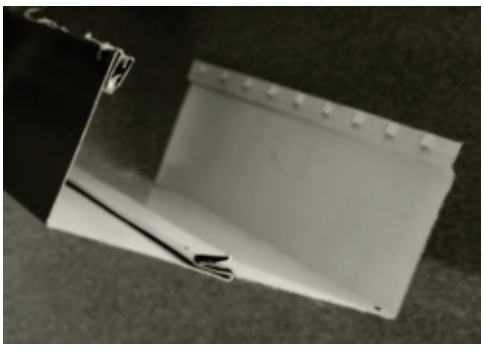
Machinery

Iron Workers

Sunrise Trilogy

- 66-ton model for heavier gauge sheet metal shop fabrications
- Shearing of flat stock, angle, round, and square bar stock
- Notching, punching, bending for producing support brackets, hangar strap and general, heavy gauge shop fabrication

Snaplock Machines



Flagler High Speed Offset Snaplock Machine

- Male/female offset 'snaplock' eliminates the need for noisy closure by hammer of air tools
- Complete the lock by tapping together using a mallet
- 3PH, 230v/480v
- 100 fpm
- Model #30-000-PT: 24ga painted, .032 alum
- Model H-2510: 22ga painted, .050 alum

Clinching Machines

Norlok Surelok III

- Clinching machine is air powered, requires no electrical hookups, and can produce pitch pockets, conductor heads, and virtually any shop fabbed accessory without the use of pop rivets, screws, and caulk
- Versatile fastening of materials from as thin as 32 ga up to 14 ga thick without drilling or use of fasteners
- Available in 18" or 25" throat depth

Lockformers

Pittsburgh Lock Model 20/Superspeed

- Practical lock forming machine
- Available with optional flanging attachment
- Auxiliary rolls/options: double seam rolls, drive cleat rolls, and straight right-angle flange rolls
- 1PH, 115v, 25 fpm

"Superspeed"

- 3PH, 230v/460v, 75 fpm

Plasma Cutting

Lockformer Vulcan 1000D Plasma Cutting System

- Easy to use custom part drawing system eliminates costly and time consuming manual layout for complex shapes like conductor heads, goose necks, eyebrows, and scuppers
- User-friendly operator controls and easy-to-use software
- Excellent cut quality and precision on a wide variety of materials
- Patented Hypertherm-shielded nozzle for longer nozzle life and heavier piercing capability
- Vertical dual-cylinder pneumatic torch lifter with adjustable up/down pressure
- Sealed DC servo brushless motor and motor encoders for steady movement of the torch over the entire cutting area

Router

MultiCam Series 3000 Router

- Contractor fabrication of wall panels, soffits, column covers, and mansards
- Interchangeable cutting tools allow for routing a wide range of material types
- Incredibly fast and accurate
- Easy-to-use software enhances custom shape opportunities
- Opens up new revenue channels for architectural metal offerings

NB HANDY
The Preferred Choice

Morris Ginsberg
an N.B. Handy Company