



Follansbee Steel manufactures steel that stands up to the harshest conditions on Earth | [Learn More >](#)



Roofing Systems

ZI® ALLOY COATED STEEL MATERIALS

TCS II®

TCS II SATIN®

TERNE II®

KLASSICKOLORS®

RAPIDRI® PAINT SYSTEM

ROOFING SYSTEMS

ROOFING RAINGOODS & ACCESSORIES

ZI® ALLOY COATING SERVICES

PRODUCTS THE ALLOY PERFORMANCE LEED/GREEN GALLERY ABOUT CONTACT

Follansbee manufacturers two complete roofing systems from its legendary steel materials:

DIAMOND PATTERN SHINGLE SYSTEM

This shingle system, used to produce an elegant and highly durable roof or wall, is available in three Follansbee materials: [TCS II®](#), [TCS II Satin®](#), [Terne II®](#) and [Klassickolors®](#) and includes 10" x 14" shingles, eave drip, gable edging, vee valley, J-valley starter strip, edge roll and wall starter.



Shingles are stamped with an exclusively designed side lock, permitting quick and easy installation with no soldering required.

A weathertight side lock provides contact at three points, covering all nail heads and allowing expansion and contraction.

Deep cross crimps prevent water from blowing under end laps

RECENTLY COMPLETED PROJECTS



Alabama State University

TCS II Satin



UNC Chapel Hill - Steele Building

TCS II

ROOFING PANEL SYSTEMS

Available in [TCS II®](#), [TCS II Satin®](#), [Terne II®](#) and [Klassickolors®](#), this roofing panel system features a 1" double locking standing seam to quickly and efficiently create a classic standing seam roof or wall with no exposed fasteners.

1" Double Lock Standing Seam System

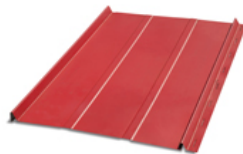
Mechanically seamed installation with concealed fasteners

Recommended for roof slope of 3:12 or greater ([Contact Follansbee Steel](#) for lower slopes)

Curved and embossed options are available

Lengths up to 50'

17" panel widths standard



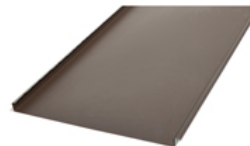
1" Snap Seam with Nail Strips and Striations

Easy installation with concealed fasteners, no cleats required

Recommended for roof slope of 3:12 or greater ([Contact Follansbee Steel](#) or lower slopes)

Lengths up to 50'

16" and 20" panel widths standard (12"-20.75" widths available)



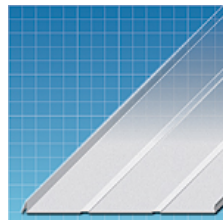
1.5" Snap Seam with Striations

Easy installation with concealed fasteners

Recommended for roof slope of 3:12 or greater ([Contact Follansbee Steel](#) or lower slopes)

Lengths up to 50'

16" and 20" panel widths standard (12"-21" widths available)



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Have a tough corrosion problem to solve? For over a century, Follansbee Steel materials have been used for exterior architectural applications and other structures in corrosive marine environments. Why? Because Follansbee Steel materials refuse to corrode. Follansbee Steel materials might just be the solution you're looking for...

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PRODUCTS THE ALLOY PERFORMANCE LEED/GREEN GALLERY ABOUT CONTACT
Terne II® - ZT® Alloy Coated Steel

ZT® ALLOY COATED STEEL MATERIALS

TCS II®

TCS II SATIN®

TERNE II®

KLASSICKOLORS®

RAPIDRI® PAINT SYSTEM

ROOFING SYSTEMS

ROOFING RAINGOODS & ACCESSORIES

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Terne II® is the improved version of historic terne metal, which has been used extensively throughout colonial and modern America. While it retains all the time-tested qualities of the original lead/tin coated material, Terne II boasts improved corrosion-resistance in all environments without compromising its mechanical characteristics. Terne II also has excellent formability, solderability and affinity for paint. It can be used in flatlock, standing seam, vertical wall designs and virtually any other application in which original terne has been used.

The material is strong and ductile – having high yield and tensile strengths, as well as workability – and is easily formed with conventional roofing

tools. When used in a roofing application, it is advisable to paint the material with Follansbee Steel's Rapidri® acrylic painting system as soon as conditions permit. Oxide formation is slower than with original terne, so waiting for proper painting conditions provides substantially less risk. Unpainted Terne II achieves 19,250 hours of ASTM B117 Salt Spray accelerated life testing.

Properly maintained, Follansbee's Terne II should last indefinitely. Follansbee Steel provides a 30-year warranty on Terne II installations in non corrosive aggressive environments.

MATERIAL COMPOSITION, BASIC USE AND LIMITATIONS

Follansbee Terne II is a prime base sheet of drawing-quality carbon steel, coated both sides with ZT® alloy. Terne II can be used for roofs (standing seam, batten seam, flat lock and Bermuda seam), flashing (chimney, base, counter, valley, hip ridge, ledge, dormer, sill, thru wall, termite shield), perimeters, drip edges, mansards, fascia, wall covering and drainage (including all styles of gutters and downspouts).

Limitations: All Terne II surfaces must be painted and drained. When applied on a wood deck:

Wood treatments that are hygroscopic or chemically treated must not be used for decking under Terne II.

Minimum 1/2" plywood to be specified.

If sheathing boards are specified, maximum 2" spacing between boards.

Roof deck must be smooth, clean, dry and must remain dry after application.

Rosin sized paper is the only permissible underlay on a Terne II application.

Note: Do not apply roofing felts under Terne II.

SIZES



Sheet Widths: 20", 24" and 28"

Sheet Lengths: 96" and 120"

Note: Special sizes available up to 28" W x 144" L

Box of 112 Sheets: 14" x 20" and 20" x 28"

Bundle of 100 Sheets of Flashing: 5" x 7", 7" x 7" and 8" x 7"



Follansbee Steel Adds Four New Sales Representatives

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Rolls: 50-foot, 100-foot and variable length rolls in widths of 20", 24", 28" and 36"

Coils: 2000 lb. to 4000 lb. mill coils available in widths of 20", 24" and 28"

GAUGES AND WEIGHTS

Gauges: 28 and 30

Weight: (Note: all weights are theoretical and could vary)

30 gauge – .51 lbs./sq. foot

28 gauge – .61 lbs./sq. foot

COLORS

Terne II is unique among architectural metals in its affinity for paint. Terne II must be painted using Follansbee Steel's specially formulated Rapidri® acrylic 2-part coating system. The Rapidri primer and finish coats are water-based acrylic coats that can be applied by brush, roller or power spray.

Rapidri® Primer: Follansbee Steel's Rapidri® primer is available in your choice of red or gray.

Rapidri® Finish Coat:



INSTALLATION DETAILS

Method: Install in accordance with standard sheet metal practices available in our [Download Center](#).

Note: Follansbee Steel's Terne II specification and data manual does not purport to provide information covering all design and application situations, which may confront architects and applicators. In order to safeguard all purchasers' warranty rights, architects and applicators should, in every case, first refer to the most recent details or procedures concerning designs or applications involving Follansbee products, which were published by Follansbee. Additional applications and detail information may be found in the current Architectural Sheet Metal Manual published by Sheet Metal and Air Conditioning Contractors National Association Inc. However, should any conflict arise between any details or procedures published by Follansbee and those published in said SMACNA Manual, the details or procedures published by Follansbee shall take precedence. Failure to comply with any of the conditions set forth herein may void Follansbee Steel's warranty.

Forming: Terne II, a soft metal, forms with conventional hand and regular sheet metal shop tools and can be cut with standard sheet metal hand snips or power tools. For standing seam roofs, preformed ready to apply pans are available in lengths up to 35 feet maximum.

Soldering: Surface needs no pre-tinning. Use only rosin flux and pure tin solder. Use soldering irons only (3 lb. minimum). Correctly heated soldering irons are very important for soldering Terne II. Also, the shop coat must be removed for a good solder joint. Lacquer thinner works best when removing shop coat. Do not use torches or welding equipment.

Painting Recommendations:

No special treatment of Terne II is required prior to painting.

All work must be painted immediately after application or as soon as proper painting conditions prevail.

All surfaces must be clean and dry.

Coverage of Rapidri® is approximately 350 square feet.

Paint the roof when it is warm and dry starting about 10 a.m. and stopping by 4 p.m.

Surface and air temperatures must be between 50°F and 90°F.

Condensation may occur on the roof surface after a cool night.

Do not paint over condensation because peeling may occur.

Rapidri can be brushed, rolled or spray-applied.

Underside: On pitched roof area (3" or more per foot), a factory-applied coat or a coat of Rapidri primer must be applied before application. On flat-lock areas (less than 3" per foot), a coat of Rapidri primer must be applied even though a factory-shop coat has been applied.

Exposed Surface: Apply two coats. The mill applied shop coat is not to be considered as one of the two coats required on the exposed surface. First coat is to be Rapidri primer. Allow ample time for each coat to dry completely. Second coat is to be Rapidri in desired color.

IMPORTANT: Again, the mill applied shop coat is not to be considered as one of the two coats required on the exposed surface.

MAINTENANCE

Terne II requires maintenance and must be painted if the finish coat shows wear. In order to meet conditions of the warranty, however, Terne II must be painted with Rapidri® at least once every eight years.

Terne II is coated with Follansbee's ZT® alloy, a combination of zinc and tin. This coating is formulated not only as a barrier but also to be anodic to the steel substrate and reduce the potential for oxidation before painting. Rapidri®, a fast-drying, water-based acrylic painting system, is required. Rapidri consists of primer and finish coats, both of which can be applied by roller, power spray or brush. Under proper weather conditions, Rapidri will dry within 24 hours. This allows for a quicker contractor turnaround, while providing the protection of a spray applied, state-of-the-art acrylic coating. No special treatment of Terne II is necessary prior to painting except that the roof surface should be clean and chalk free.

Because Terne II is easily soldered, it provides weathertight joints around roof perimeters and penetrations. As a result, roofers do not have to rely on sealants, which have a limited life and require maintenance and are assured that these areas of possible water penetration will remain watertight. For soldering, only pure tin solder is recommended. Terne II is an excellent material for restoration projects since it replicates many of the older terne roofs which have served through many decades. Terne II carries a 30-year warranty.

SPECIFICATIONS

[Download Technical Specifications from our Download Center](#)

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WARRANTY

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