Superior Structural Standing Seam Roof Systems

OUR PANELS MAKE THE *difference*

MBCI®
Metal Roof and Wall Systems

Illustrious Standing Seam Roof Systems from MBCI

You won't find a better roof system than a preformed metal standing seam roof system. And, MBCI offers you six systems from which to choose.

Each MBCI SSR system was designed from concept to installation for strength, durability and weatherability. These qualities were proven by earning numerous UL 90 ratings and by time-tested projects in the field.

Ideal for Reroofing

Reroofing existing buildings is an efficient method of extending the life of any structure. In most instances, an MBCI standing seam roof system can be installed directly over the existing roof with minor modifications, which means no work interruption for the building owner. A qualified structural engineer should be consulted for any modifications to be performed to the existing structure.

Reroofing existing buildings is not only efficient, but it can also give a completely different look to the structure. By adding a steeper slope and a painted MBCI standing seam roof system, a leaky, expensive roof can be converted into a key design element of the building.

Testing Credentials

To ensure that the MBCI standing seam roof system is everything needed in a roof, we constantly test each system for reliability and weatherability over different structural framing systems such as purlins, bar joists, metal deck and plywood. As a result, each system carries Underwriters Laboratories Fire Resistance, UL 90 Wind Uplift ratings and ASTM E1592 Structural Performance Uplift data. Appropriate construction numbers can be found in the UL Directories under the "Metal Roof Deck Panel" section or call MBCI for this information. In addition, independent test laboratories have tested each system for water penetration per ASTM E1646 and air infiltration per ASTM E1680.

Weathertight Roof Systems

A standing seam roof system is one of the most durable and weathertight roof systems available in the roofing industry.

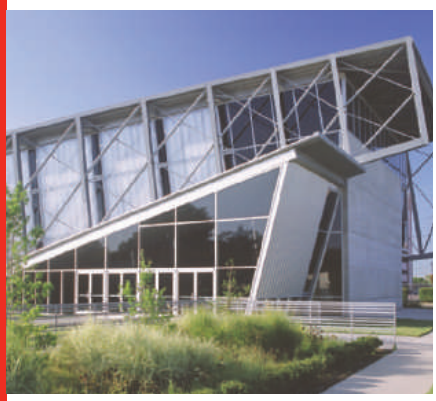
Special clips are available allowing for thermal roof expansion and contraction during extreme temperature changes. All trim is both weathertight and aesthetically pleasing. Also, excluding endlaps, the only panel penetration required is outside the building envelope. The endlaps are tightly sealed using specially designed components or by swaging the panels.

Complete Systems

MBCI offers all necessary components, including matching standard and custom trim, concealed floating clips, long life fasteners and back-up plates for use at the endlap and ridge, providing you with a complete roof system. Panels include factory-applied sealant in the sidelap to resist air and water infiltration and can be notched for endlaps.

Eco-Friendly

MBCI's metal roofs are energy efficient, recyclable, durable, lightweight and cost effective. Our panels are made from 25-35 percent recycled materials and are virtually 100 percent recyclable. Cool metal roofing provides energy savings offering both economical and environmental benefits. As a proud Energy Star Partner, many of our Cool Roof colors have reflectivity performance levels that meet Energy Star criteria for roof pitches greater than 2:12. In addition to potential energy savings, our products can help your project gain LEED points.



Quality Material

Except for Curved BattenLok®, which is available in 24-gauge only, MBCI SSR panels are available in 24- or 22-gauge Galvalume Plus® as is the standard base metal. Some products are also available in 26-gauge. Galvalume Plus® is a high-quality, cold-rolled sheet steel with a corrosion resistant metallic coating of aluminum and zinc. To ensure that any exposed fastener will last as long as the roof, our standard offering is a zinc-aluminum alloy head fastener. In addition, panel striations are standard on the vertical leg systems.

Paint Finishes

MBCI offers one of the largest color selections in the industry with a choice of two paint systems. Each standard color that MBCI offers qualifies as a Cool Roof in high-sloped roofs above 2:12.

Signature® 300 & Signature® 300 Metallic

This fluorocarbon paint system combines ceramic pigmentation with polyvinylidene fluoride (70% of resin solids) for a superior, long-lasting finish. Outstanding performance and durability are achieved through this proprietary resin technology. Signature® 300 is recognized as providing unsurpassed performance in critical areas such as color retention, film erosion rate and chemical resistance.

Signature® 200

Signature® 200 is a thermoset coating system composed of polyester resin modified by copolymerization with a functional silicone resin intermediate.

With high quality ceramic pigmentation, Signature® 200 offers optimum exterior protection plus superior resistance to chemical corrosion and ultraviolet radiation. Signature® 200 represents the most sophisticated silicone polyester coating system in the industry.

Design/Installation Manual

A thorough design and installation manual is available upon request for each MBCI standing seam roof system.

Load Tables

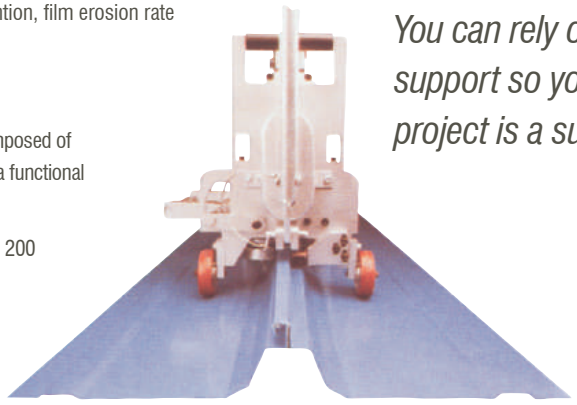
Allowable uniform live loads in pounds-per-square-foot and other engineering data are available upon request.

Specifications

MBCI has produced suggested specifications for each roof system option. These are available upon request.

Easy to Use Field Seamer

The Field seamers are available from MBCI for a rental charge for the Double-Lok®, BattenLok® HS, SuperLok® and Curved BattenLok® panels. Using the quick-release handle, it takes about five seconds to move from one seam to the next.

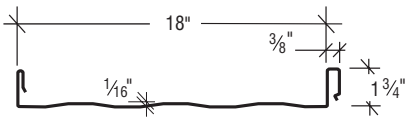


You can rely on MBCI for technological support so your standing seam roof project is a success.

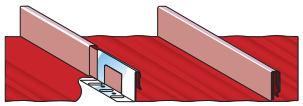
PRODUCT REFERENCE CHART

	Vertical Leg	Trapezoidal Leg	Snap Together	Field Seamed	Minimum Roof Slope	Transition	Widths Available	LTPs	Striations	Clips Available	Seam Height	Prepunched Endlaps	Swaged Endlaps
Curved BattenLok®	●			●	20' Radius		16"		●	High/Low-Fixed High/Low-Floating Utility	2"		
BattenLok® HS	●			●	1/2:12	●	12", 16"	●	●	High/Low-Fixed High/Low-Floating Utility	2"	●	●
SuperLok®	●			●	1/2:12		12", 16"	●	●	High/Low-Fixed High/Low-Floating Utility	2"	●	●
LokSeam®	●		●		3:12	●	12", 16", 18"		●	Standard Clip UL 90 Clip	1 3/4"	●	●
Ultra-Dek®		●	●		1/4:12		12", 18", 24"	●		High/Low-Fixed High/Low-Sliding Utility	3"	●	
Double-Lok®		●		●	1/4:12		12", 18", 24"	●		High/Low	3"	●	

LokSeam®

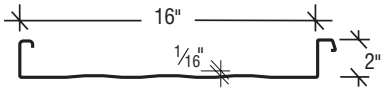


12" and 16" also available

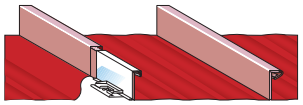


LokSeam® Interlock

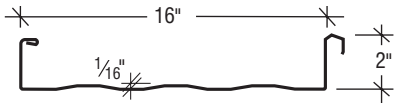
BattenLok® HS, SuperLok® Curved BattenLok®



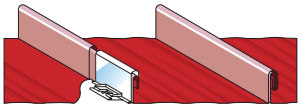
12" also available



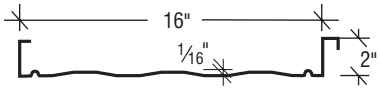
BattenLok® HS Interlock

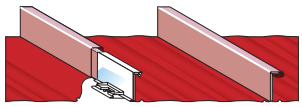


12" also available



SuperLok® Interlock





Curved BattenLok® Interlock

Consult the MBCI DESIGN/INSTALLATION INFORMATION MANUAL for proper application and design details and other product information.

Vertical Leg Structural Standing Seam Roof Systems

The LokSeam®, BattenLok® HS, SuperLok® and Curved BattenLok® standing seam roof systems blend the aesthetics of an architectural panel with the strength of a structural panel. These panels have earned several uplift ratings assuring the reliability of performance. These systems provide you with a flexible tool to meet your design challenges.

Architectural/Structural Panels

LokSeam® is a snap-together system that can accommodate transitions from roof to fascia for a continuous, uninterrupted appearance. BattenLok® HS is a field-seamed system that is also capable of transitioning from roof to fascia. Die-formed rib covers are available for both products. SuperLok® is a field-seamed panel that combines a slim rib with exceptional uplift resistance. This panel has been designed to withstand the most rigorous conditions. Curved BattenLok®, available in 16", may be curved to a minimum radius of 20', and being a structural panel, may be installed over open framing or solid decking. Striations are standard for added aesthetic value.

Concealed Fastening System

A choice of concealed fastening clips is available for each panel system including UL rated clips. These clips hold the panels firmly in place without unsightly exposed fasteners. Each clip system offers the ability to accommodate thermal movement.

Uplift Ratings

Each system carries the Underwriters Laboratories (UL 90) Fire Resistance and Wind Uplift ratings covering a wide range of roof designs. In addition, the SuperLok® system meets a variety of ratings as tested under Factory Mutual Research Corporation Standard 4471. The BattenLok® HS, SuperLok® and Curved BattenLok® systems have met all test requirements specified in CEGS 07416/ ASTM E1592 Standing Seam Metal Roof System guide specification. Contact MBCI for information relating to each panel profile.

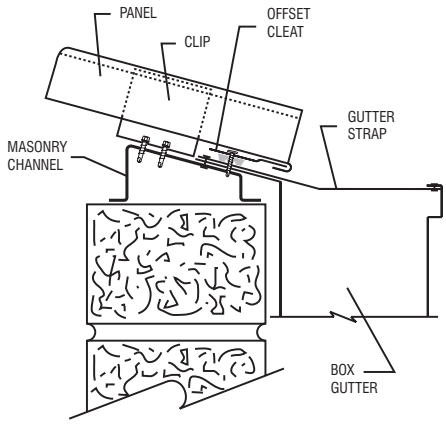
Application

Each of these systems is designed to be installed over open framing. However, the MBCI LiteFrame®, 5/8" plywood or a composite roof assembly may be used as alternate substructures. LokSeam® must be installed on roof slopes of 3:12 or greater. BattenLok® HS and SuperLok® must be installed on roof slopes of 1/2 :12 or greater.

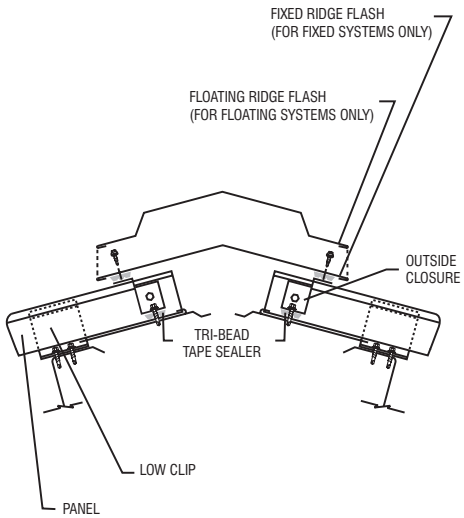
Vertical Leg SSR / Typical Details

MBCI has complete design and technical information manuals on each SSR system available upon request.
For current information, visit our website at www.mbci.com

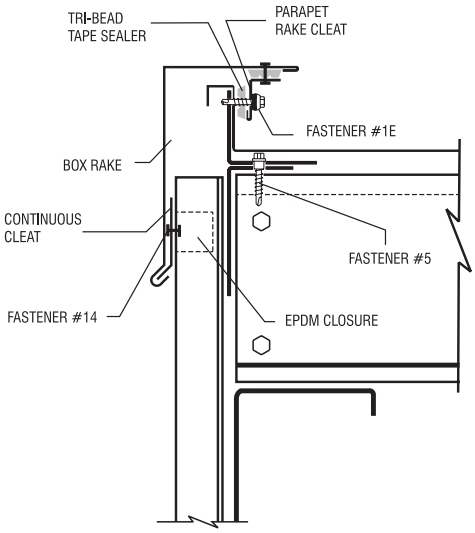
Eave with Gutter



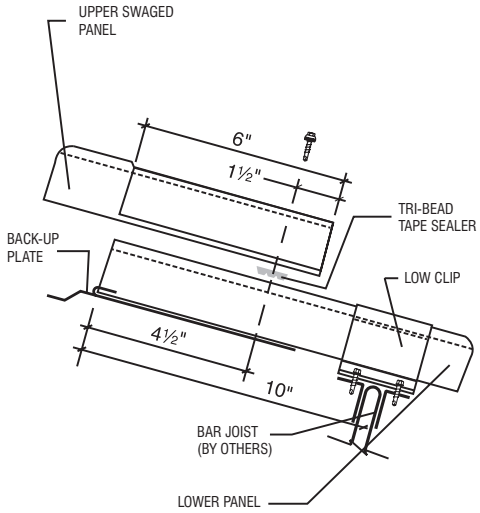
Ridge



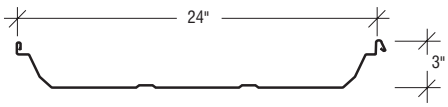
Rake



Endlap



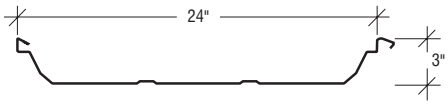
Ultra-Dek®



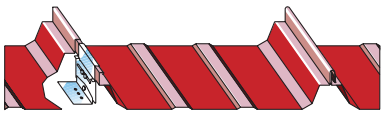
Snap-Together System
12" and 18" also available

Panel Interlock

Double-Lok®



Field-Seamed System
12" and 18" also available



Panel Interlock

Consult the MBCI DESIGN/INSTALLATION INFORMATION MANUAL for proper application and design details and other product information.

Trapezoidal Structural Standing Seam Roof Systems

The snap-together system, Ultra-Dek® and field-seamed system, Double-Lok®, were designed from concept to installation for strength, durability and weatherability. The standing seams are three inches above the lowest part of the panel, well above the water level as it flows off the roof.

Begins and Ends in a High

The rake/gable at both ends of each roof system finish with a 3" high standing seam, avoiding the necessity of finishing in the low, flat part of a panel where the greatest possibilities for leaks occur in many other systems.

Concealed Fastening System

The standard offering for the Ultra-Dek® and Double-Lok® systems is a sliding clip that allows for thermal movement. A 4" sliding clip is available for the Double-Lok® system, which can eliminate roof steps on a double slope building up to 900' wide or a single slope building up to 450' wide. These clips are available in high and low versions for use with different thicknesses of vinyl-backed fiberglass insulation.

Uplift Ratings

Both systems carry Underwriters Laboratories (UL 90) Fire Resistance and Wind Uplift ratings covering a wide range of roof designs. In addition, the Double-Lok® system meets Class 1-60, 1-90 and 1-105 ratings as tested under Factory Mutual Research Corporation Standard 4471. The Double-Lok® system has met all test requirements specified in CEGS 07416/ASTM E1592 Standing Seam Metal Roof System guide specification. Contact MBCI for parameters relating to each panel profile.

Application

Panels can be installed before or after the exterior walls are in place, and all trim is attached after the roof is installed. With a recommended minimum slope of $^{1}/_{4}$:12, these roof systems can be used on all types of construction—masonry, metal or wood—for either new construction or retrofit.

Trapezoidal SSR / Typical Details

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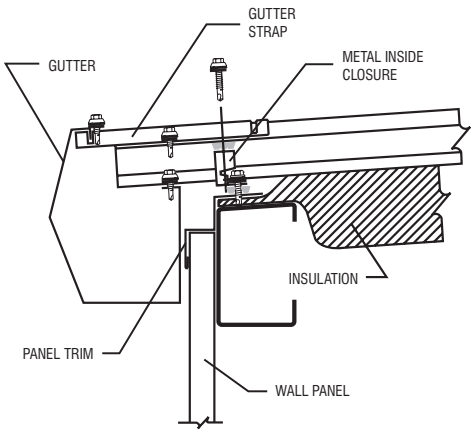
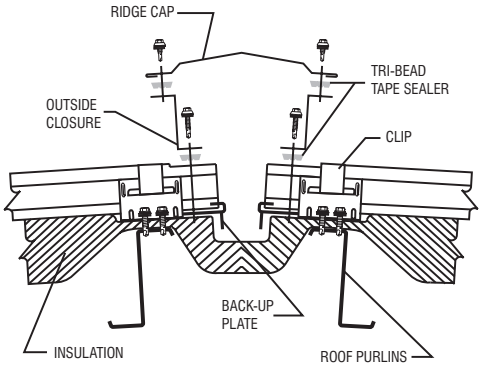
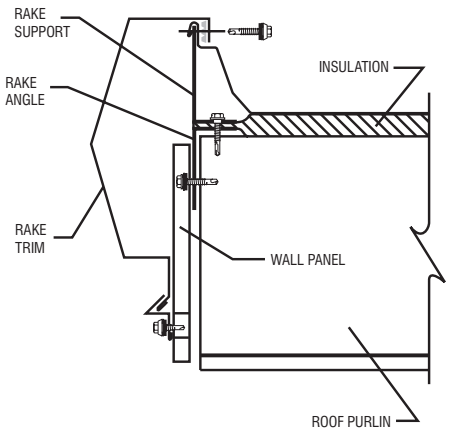
Eave With Gutter



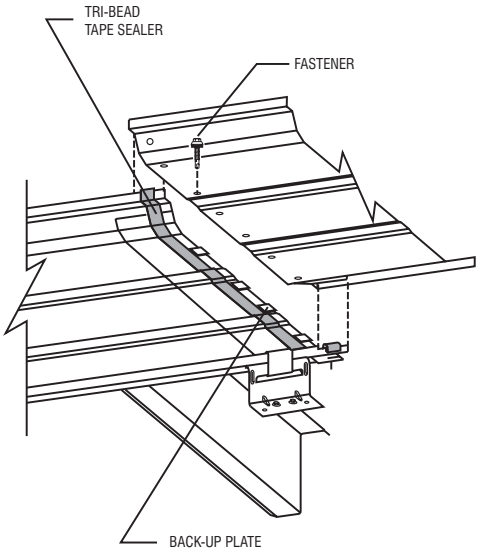
Ridge



Rake



Endlap



OUR PANELS MAKE THE *difference*

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For current information, visit our website at www.mbci.com

MBCI®
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Listed on the New York Stock Exchange as "NCS."

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