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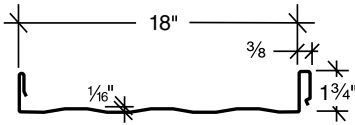
Superior Structural Standing Seam Roof Systems



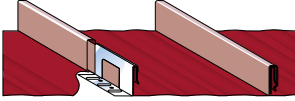
**YOUR PASSION IS DESIGN.
OUR PASSION IS METAL.**

MBCI[®]
Metal Roof and Wall Systems

LokSeam®

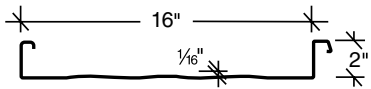


10" and 12" also available

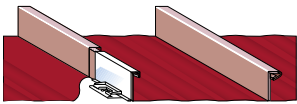


LokSeam® Interlock

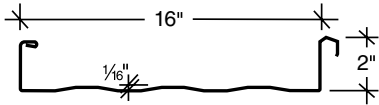
**BattenLok® HS, SuperLok®
Curved BattenLok®**



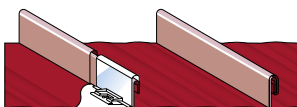
12" also available



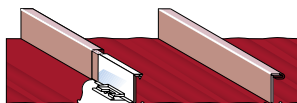
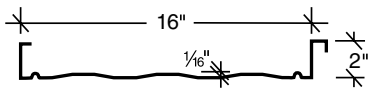
BattenLok® HS Interlock



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. The designer is afforded a flexible tool to meet any design challenge.

ARCHITECTURAL/STRUCTURAL PANELS

LokSeam® is a snap-together system that was designed for transitions from roof to fascia for a continuous, uninterrupted appearance. A die-formed rib cover is available for use with this detail. BattenLok® HS is a field seamed system that is also capable of transitioning from roof to fascia. Die-formed rib covers are also available for this product. 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. Each of these systems feature factory installed hot-melt mastic to insure weathertight seams. 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 Fire Resistance and Wind Uplift (UL 90) 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 parameters 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.

Trapezoidal Structural Standing Seam Roof Systems

The snap-together system, Ultra-Dek®, and field seamed system, Double-Lok®, were engineered from concept to installation for strength, durability, and weatherability. The standing seams are a full three inches above the lowest part of the panel, well above the water level as it flows off the roof. The seams have factory-applied mastic to insure a secure, weathertight seam.

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 most other systems.

CONCEALED FASTENING SYSTEM

The standard offering for the Ultra-Dek® and Double-Lok® systems is a floating clip that cannot be installed unless the tab is centered in the clip base. This feature provides for maximum efficiency of the clip and panel.

Special conditions may require the use of the unique Articulating Clip, which is designed to eliminate binding and friction in a misaligned substrate application.

A 4" sliding clip is available for the Double-Lok® system which eliminates roof steps on a double slope building up to 990' wide or a single slope building up to 495' wide. These clips are available in a high and low version for use with different thicknesses of vinyl-backed fiberglass insulation.

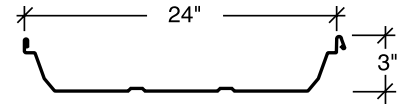
UPLIFT RATINGS

Both systems carry Underwriters Laboratories Fire Resistance and Wind Uplift (UL90) 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.

Ultra-Dek®

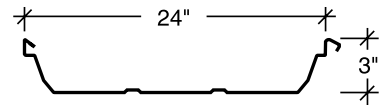


Snap-Together System
12" and 18" also available

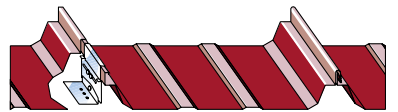


Panel Interlock

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.



The Strongest Standing Seam Roof System You Can Get

The simple fact is that you cannot find a better roof system than a preformed metal standing seam roof system. And MBCI offers you a choice of six systems that are unsurpassed in the industry.

Each MBCI SSR system was engineered from concept to installation for strength, durability, and weatherability. These qualities were proven not only by earning a UL90 rating but also 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.

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 showplace that everyone would be proud to call their own.

TESTING CREDENTIALS

To insure 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 joist, metal deck and plywood. As a result, each system carries Underwriters Laboratories Fire Resistance, UL90 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.

MOST WEATHERTIGHT ROOF SYSTEM AVAILABLE TODAY

A standing seam roof system is the most weathertight roof system available in the roofing industry.

Special clips are available that allow for thermal roof expansion and contraction during extreme temperature changes. All trim is both weathertight and aesthetically pleasing, giving the roof a nice finished appearance. Also, other than for endlaps, the only panel penetration required is outside the building envelope. The endlaps are tightly sealed using either unique components or by swaging the panels.

Factory applied sealant in the panel sidelap insures a tight, secure weathertight lap whether it is a snap-together system or a field-seamed system.

COMPLETE SYSTEMS

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

PRODUCT REFERENCE CHART

	Vertical Leg	Trapezoidal Leg	Snap Together	Field Seamed	Min. Roof Slope	Transition	Widths Available	LTPs	Striations	Clips Available	Seam Height	Prepunched Endlaps	Swaged Endlaps
Ultra-Dek®	No	Yes	Yes	No	1/2:12	No	24", 18", 12"	Yes	No	High or Low-Fixed High or Low - Floating Utility	3"	Yes	No
Double-Lok®	No	Yes	No	Yes	1/2:12	No	24", 18", 12"	Yes	No	High or Low - Floating	3"	Yes	No
BattenLok® HS/ SuperLok	Yes	No	No	Yes	1/2:12	Yes/No	16", 12"	Yes	Yes	High or Low - Fixed High or Low - Floating Utility	2"	Yes	Yes
Curved BattenLok®	Yes	No	No	Yes	20" Radius	No	16"	No	Yes	High or Low - Fixed High or Low - Floating Utility	2"	No	No
LokSeam®	Yes	No	Yes	No	3:12	Yes	18", 16", 12"	No	Yes	Standard Clip UL90 Clip	1 1/4"	Yes	Yes

QUALITY MATERIAL

Except for Curved Battenlok® (which is available in 24 gauge only) MBCI SSR panels are available in 22, 24 or 26 gauge Galvalume Plus®. (The standard base metal is 24 or 22 gauge Galvalume Plus. 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. In addition, panel striations are standard on the vertical leg systems. To insure that any exposed fastener will last as long as the roof, our standard offering is a zinc-aluminum alloy head fastener.

PAINT FINISHES

MBCI offers one of the largest color selections in the industry in a choice of three paint systems.

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.

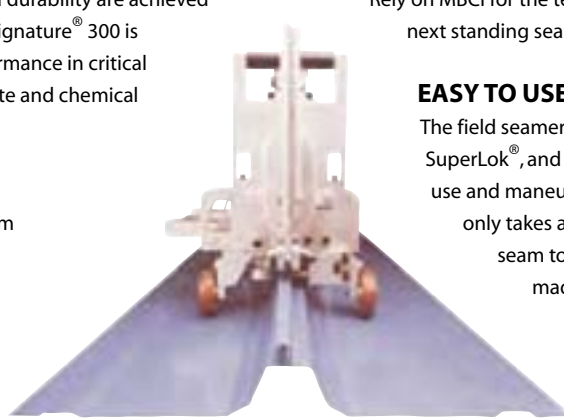
LOAD TABLES

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

SPECIFICATIONS

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

Rely on MBCI for the technological support to insure that your next standing seam roof project is a success.



EASY TO USE FIELD SEAMER

The field seamers for the Double-Lok®, BattenLok® HS, SuperLok®, and Curved BattenLok® panels are easy to use and maneuver. Using the quick-release handle, it only takes about five seconds to move from one seam to the next. Weathertight seams are made without damage to the panel finish.

Articulating Clip Eliminates Binding and Friction

There are many styles of standing seam clip systems available today. However, MBCI offers the only clip that articulates as well as floats, which eliminates binding and friction. This clip is available for both the Ultra-Dek® and Double-Lok® systems.

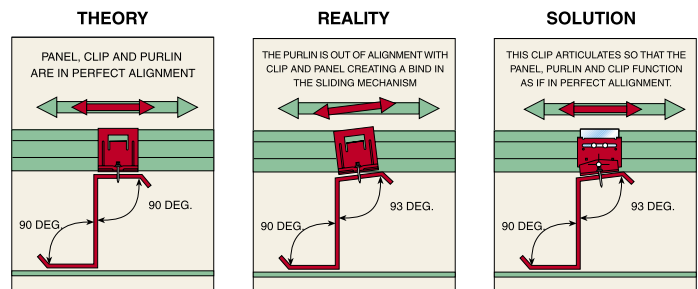
Two floating clips are available with each system. When added insulation is required, a high floating clip is used with a 1" thermal spacer. A low floating clip can be used without the thermal spacer.

ELIMINATES BINDING

This four piece clip articulates between the base and intermediate section without binding. Typically, binding on the clip is attributed to misaligned or out-of-square purlins or bar joists. The bind restricts a standing seam roof from properly floating the way it was designed.

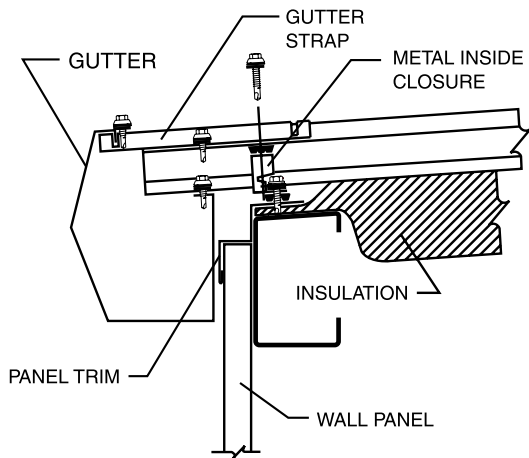
ELIMINATES FRICTION

The floating section of most clip systems grabs only the top portion of the male leg of the panel, while the fixed section of the clip supports the bottom male leg. When expansion and contraction occur, the top portion actually moves with the panel as the bottom portion remains fixed. This creates friction or drag between the clip and panel, greatly restricting movement. The articulating clip, which allows for 2 1/2" of slide per clip, supports both the top and bottom of the male leg eliminating the friction and allowing the panel to float freely as it was designed.

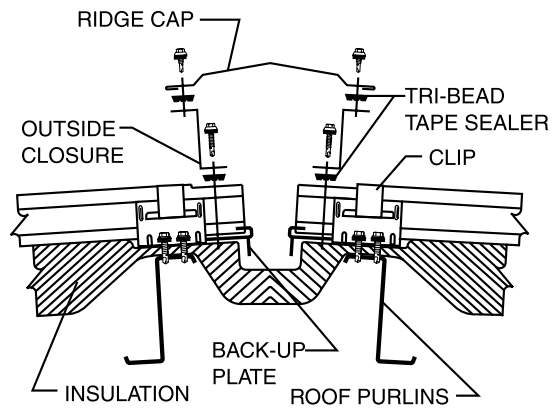


Trapezoidal SSR / Typical Details

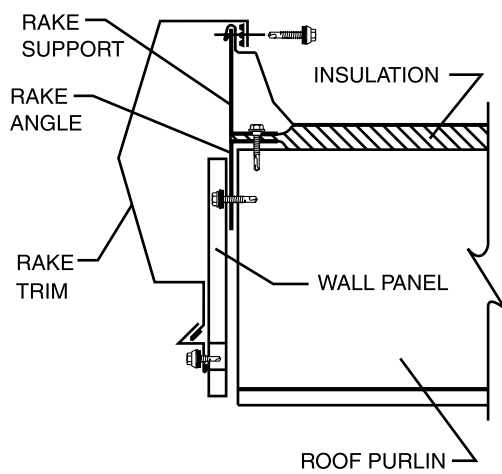
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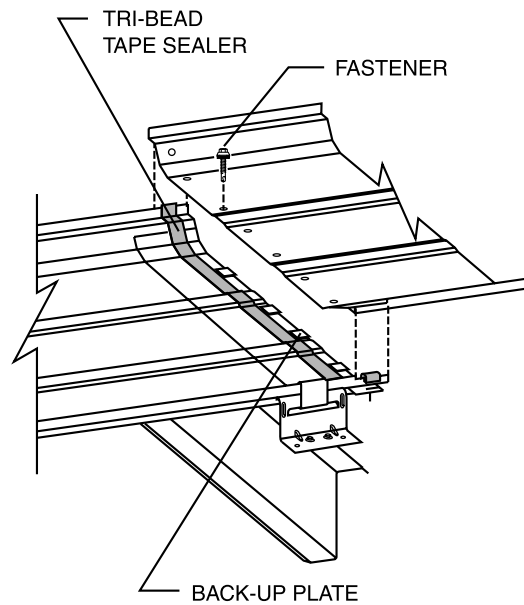
Eave With Gutter



Ridge



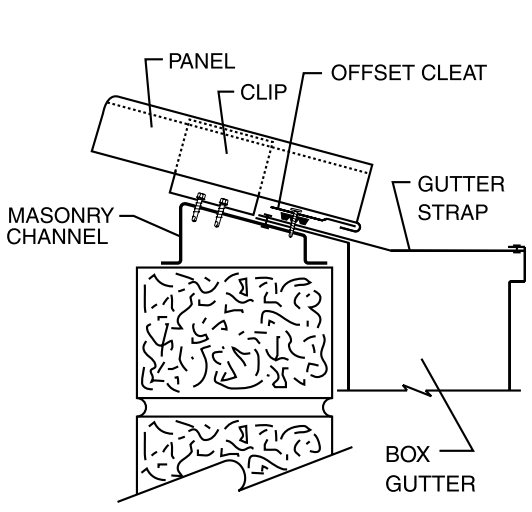
Rake



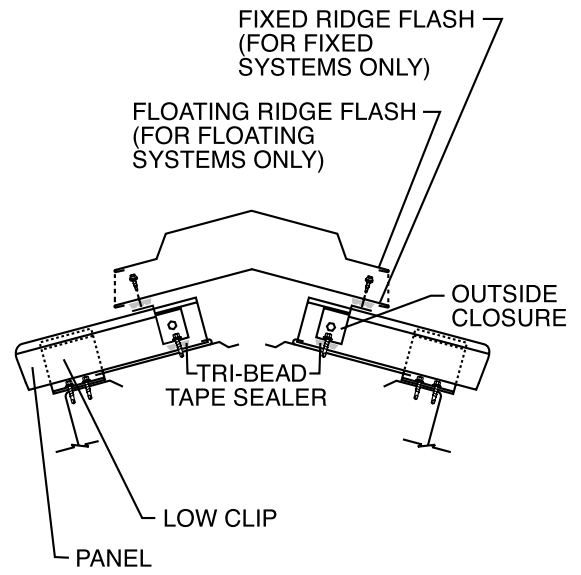
Endlap

Vertical Leg SSR / Typical Details

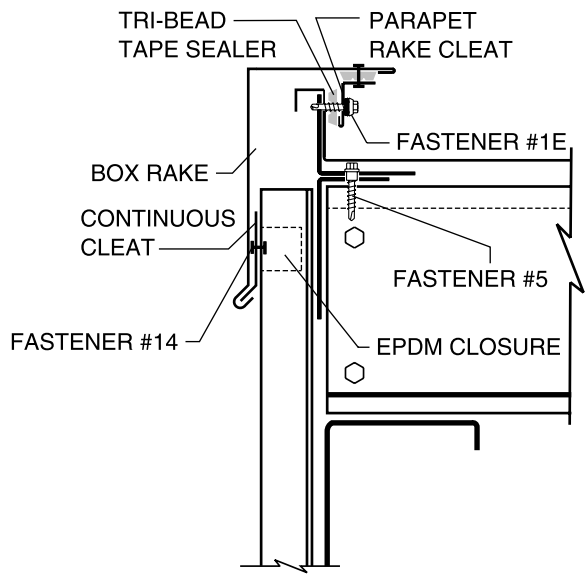
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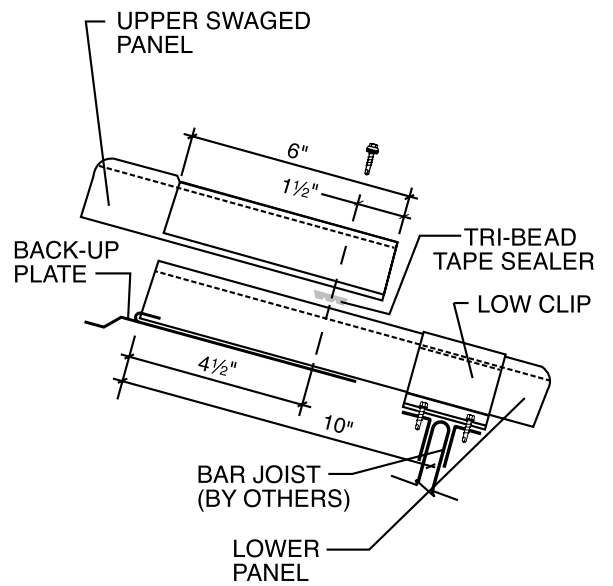
Eave with Gutter



Ridge



Rake



Endlap