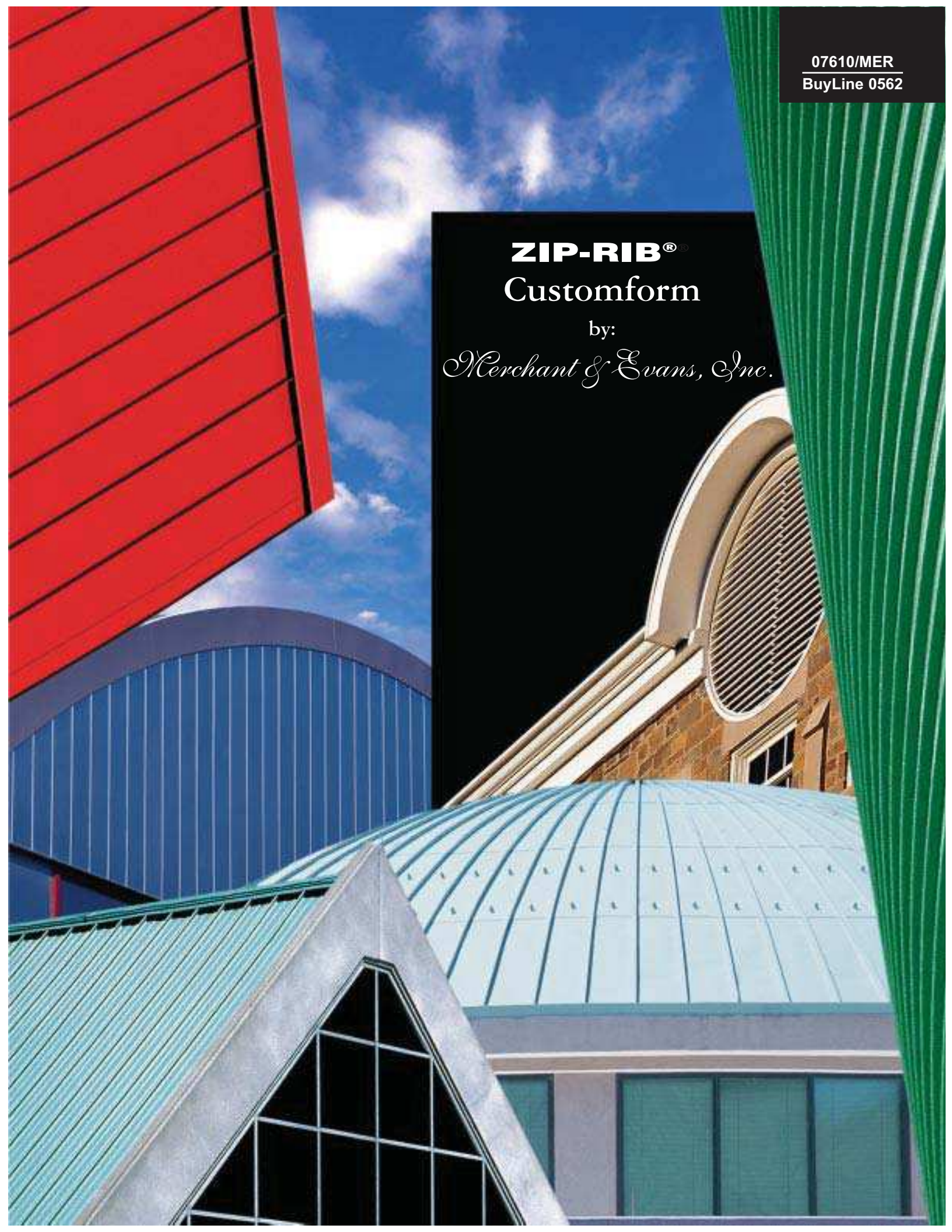


07610/MER
BuyLine 0562

ZIP-RIB®
Customform

by:

Merchant & Evans, Inc.



TOPPING OFF YOUR BEST IDEAS

With a tradition of engineering excellence and proud craftsmanship that stretches back to 1866, Merchant & Evans offers an advanced and highly diversified line of top-quality metal roofing systems to cover virtually any design requirement. Our array of profiles, materials and finishes allows us to accommodate the widest range of architectural aesthetics, from the sleek lines of contemporary structures to the elaborate custom details required for historic restoration and refurbishing.

Project oriented, Merchant & Evans provides collaborative support from design through installation to ensure the realization of your architectural vision. Merchant & Evans technical staff, draftsmen and skilled craftsmen deliver an “under-one-roof” solution to your every roofing challenge, and our continuing research, unsurpassed quality control and custom capabilities help you turn your best design ideas into reality.

UNSURPASSED SYSTEM SELECTION

Merchant & Evans’ comprehensive selection of structural and architectural roofing systems offers unique solutions for new construction, retrofit and historic renovations. Our variety of rib profiles, widths and closure systems provides maximum flexibility, to fit the most complex roof geometries and the tightest budgets with the crisp appearance, weather tightness and assured dependability of Merchant & Evans roofing products.

Below: Zip-Rib applied over re-roof framing system using complex design elements. Right: Project oriented, Merchant & Evans provides

collaborative support from design through installation to ensure the realization of your architectural vision.



MERCHANT & EVANS’

ARRAY OF PROFILES,

MATERIALS AND FINISHES

ALLOWS US TO

ACCOMMODATE THE

WIDEST RANGE OF

ARCHITECTURAL

AESTHETICS.



Our structural roofing products include

- Zip-Rib roofing systems, setting the standard in field-tested applications worldwide since 1964

Our Customform architectural products feature

- BD-1520 roof system, a Merchant & Evans exclusive, designed especially for domes, curved roofs and projects requiring sophisticated roof designs and complex forms
- Cornices, detailed and custom-fabricated by our craftsmen

- Batten and pan standing-seam roof systems, available in a wide range of materials, finishes and profiles to fit a nearly exhaustive variety of applications
- Framing, mansards, soffits and fascia, providing seamless continuity between the roof system and other building elements

PRODUCT SELECTION GUIDE

	Structural	Architectural	Accommodates barrel vault designs	Shallow slope (less than 3":12")	Accommodates tapered designs	Accommodates domed designs	Seam height	Snap-lock seam/batten	Mechanical seam	UL-90 classification	ASTM-E1592 tested	New York City MEA approval for steel	Dade County NOA	FM 4471 Class 1
ZIP RIB	•	•	•	•	•		2½"		•	•	•	•*	•	•
BD-1520	•	•	•	•	•	•	2"	•		•	•	•		
B1515R		•	•		•		1½"	•				•		
114 R		•			•		1¼"	•				•		
305		•			•		1⅜"	•		•		•		
306		•	•		•		1"-1½"	•		•		•		
MANSARDS		•			•		varies	n/a				•		
FASCIAS		•			•		varies	n/a				•		
SOFFITS		•			•		varies	n/a				•		

* Aluminum and steel



Zip-Rib applied to intersecting barrel vaults. Gentle radius results in low slope; thus weather-tight performance of roof panel is critical.

ZIP-RIB STRUCTURAL ROOFING PRODUCTS

ENGINEERING EXCELLENCE

From the hot, damp, salt-laden air of tropical islands to the frigid winds and heavy snows of the arctic interior, Zip-Rib roofing systems have proven their integrity and performance for nearly four decades, combining workhorse reliability and design versatility. The oldest structural profile incorporating concealed clips, Zip-Rib is the world's most thoroughly tested and developed structural standing-seam roofing system.

UNCOMPROMISING PERFORMANCE

Stringently tested in the laboratory and field to assure superior performance, Zip-Rib establishes the industry benchmark:

- Carries Dade County Notice of Acceptance
- Conforms to FM-4471 Class 1 Roof Assembly
- Carries the UL 90 wind uplift rating in steel and aluminum

- Tested in-house with a state-of-the-art uplift chamber in accordance with ASTM-E1592 for positive and negative load resistance
- Passes severe static and dynamic wind and water tests (ASTM-E1680, ASTM-E1646, AAMA 501-83)
- Carries the UL Class A fire rating
- Classified under UL CETW category for use in dozens of fire constructions
- New York City MEA approval in aluminum and steel

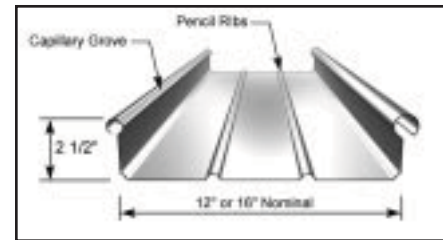
ACCOMMODATING VERSATILITY

Zip-Rib factory-formed panels are engineered for the design flexibility architects require, and can be used on a wide spectrum of construction, from open purlin to metal deck to wood substrates. Available in standard factory lengths up to 105 feet, they have also been formed on-site in spans as long as 290 feet, and in most

cases, full-length ridge-to-eave panels eliminate the need for end laps.

Zip-Rib panels accommodate the most complex roof configurations — even curved surfaces — allowing smooth transitions between roof planes and between the roof and other building elements. A variety of end panels and ridge covers cap off the most complex roof design.

Merchant & Evans provides Zip-Rib guide specifications and CAD details in various formats on computer disk, and our *Zip-Rib Design Guide* (see box) provides technical data specific to Zip-Rib design considerations.



EXCEPTIONAL DURABILITY

The 2.5-inch machine-sealed ribs strengthen the overall panel structure and provide an impenetrable weather barrier against rain, wind, snow and ice, as confirmed by over 38 years of installed service.

Concealed floating clip attachments, available in a variety of configurations to meet any substrate conditions, do away with penetrating fasteners at structural supports and side laps. The clips allow the panels to expand and contract freely in response to temperature variations while remaining resistive to wind uplift forces.

While the minimum recommended slope is 0.5 inch per foot, shallower slopes have been used successfully without any compromise of watertight performance. However, lower-than-recommended slopes make roof penetrations difficult to seal.

Zip-Rib is virtually maintenance free. Merchant & Evans recommends a yearly inspection by the owner to ensure free drainage and proper functioning of flashing. Available in standard 12- and 16-inch widths, Zip-Rib panels offer a choice of 18-, 20-, 22- or 24-gauge steel and 0.032-, 0.040- or 0.050-inch aluminum, in smooth or embossed textures, with custom materials such as zinc, copper, lead coated copper, and stainless steel available on a job-to-job basis.

ZIP-RIB DESIGN GUIDE

Our engineers have developed the expansive Zip-Rib Design Guide to answer a variety of common technical questions. The guide covers all aspects of Zip-Rib installation, including corrosion data and details for flashing, skylights, eaves and gutters, expansion joints, and thermal fixed joints, and provides specifications and all charts and tables needed for engineering design calculations.

Also included are details of Zip-Rib panels and the numerous clips, anchors, closures, tracks and fasteners required to evaluate and design a complete structural system.



**ZIP-RIB IS THE WORLD'S
MOST THOROUGHLY
TESTED AND DEVELOPED
STRUCTURAL STANDING-
SEAM ROOFING SYSTEM.**



ZIP-RIB CANOPY SYSTEMS

ZIP-RIB FREE-SPAN CANOPIES; ANOTHER DESIGNERS CHOICE

Since 1964, ZIP-RIB has set the standard for high-performance standing seam metal roofing. Now, ZIP-RIB offers designers yet another design solution for canopy designs using fewer structural steel members.

Building on the strength achieved by radiused ZIP-RIB roof panels, it is possible to either greatly reduce or eliminate the need for curved rafters and/or purlins in certain canopy applications. Free-Span canopies can be safely designed to spans of 16 feet without intermediate purlins.

Wider spanning canopy designs can be accomplished with reduced framing requirements since ZIP-RIB can be utilized on open purlin designs to 10 feet. Challenge Merchant & Evans' in-house engineering staff on your next canopy design.

ZIP-RIB OFFERS DESIGNERS YET ANOTHER DESIGN SOLUTION FOR CANOPY DESIGNS USING FEWER STRUCTURAL STEEL MEMBERS



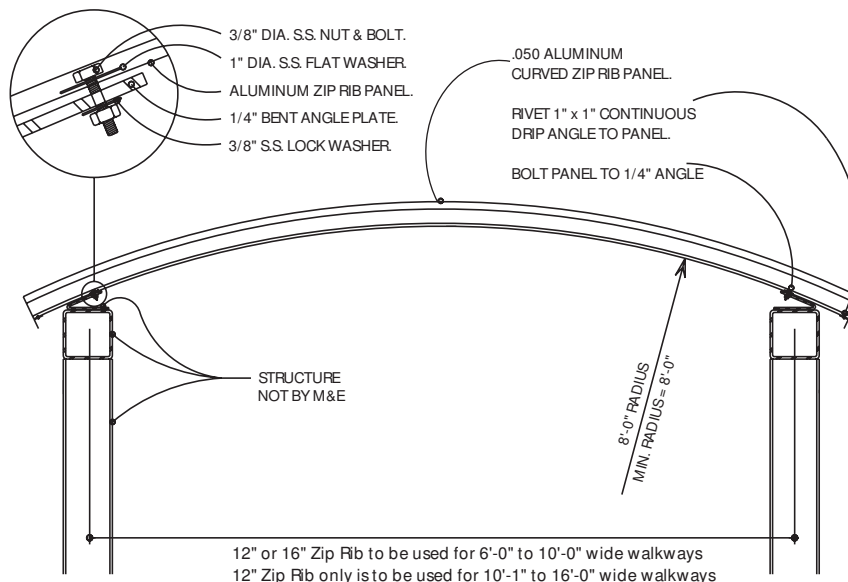
Designs with ZIP-RIB can reduce or eliminate framing.



This unique design utilized a double-layered free-span system eliminating intermediate framing while also providing an insulated system for a climate controlled canopy.



ZIP-RIB's strength made ease of this side-column design.

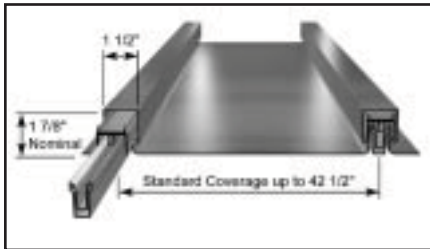


NOTE; Minimum rise to span ratio is 0.25 (Example: 10'-0" span = 2'-6" min. rise)



MATCHING YOUR PERFECT CURVES

Designed especially for complex roof applications and available as a functional architectural product, the Merchant & Evans Customform BD-1520 system accommodates a variety of curved designs, including domes, hips and barrel vaults, as well as tapered and straight-run projects. Whatever profile your design calls for, Merchant & Evans' design and



engineering staffs can develop a system to match your needs.

The system's unique batten and pan design allows for both longitudinal and lateral curvature, permitting maximum design flexibility. With a 2-inch-high seam and 1.5-inch-wide batten, the panel side joint features an internal gutter system of complex extrusions that provides a weather-tight barrier without the use of a sealant, and the joint snaps together for easy installation with no exposed fasteners.

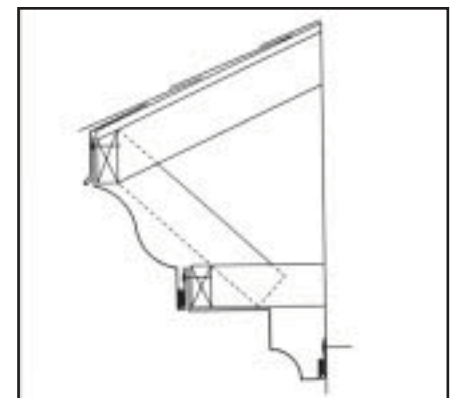
Available in a variety of dimensions, BD-1520 panels are manufactured from a selection of long-life metals including aluminum, zinc, copper, lead-coated copper, and stainless steel, as well as coated carbon steel.



CUSTOMFORM CUSTOM CORNICES

Whether yours is a traditionally designed project, a retrofit or a historic restoration, Merchant & Evans craftsmen can custom-design and -detail virtually any cornice geometry required. From the simplest lines to the most complex traditional profiles, our craftsmen will match your specific design requirements to achieve the look that your vision demands.

Customform cornices are manufactured from 0.032- to 0.063-inch smooth aluminum, and all corners, transitions and end conditions are heliarc-welded into a water-tight integral unit to eliminate contour distortion.



CUSTOMFORM ARCHITECTURAL ROOF SYSTEMS

STRETCHING DESIGN OPTIONS

Whether for new construction or in retrofit applications, Customform concealed-clip panels offer optimal design flexibility. Their wide range of profiles (including custom caps), closure systems and rib widths adapt smoothly to virtually any design application and effortlessly accommodate complex roof configurations that incorporate unusual return conditions, such as hips, soffits and gambrels.

CUSTOMFORM PROFILES,

CLOSURE SYSTEMS AND

RIB WIDTHS ADAPT

TO VIRTUALLY ANY

DESIGN APPLICATION.

Manufactured in 22- or 24-gauge steel and in 0.032- or 0.040-inch aluminum (custom materials available on a project basis), in smooth or embossed finishes, the snap-fit panels install easily to provide economical, high-performance roofing solutions.

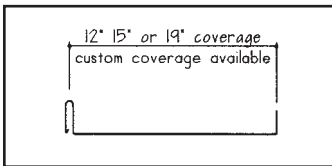
ARCHITECTURAL ROOFING

Customform roofing systems are available in four distinctive profiles to match your design and budget requirements:

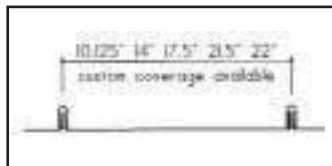
- **B1515R.** Suitable for straight runs, conical tapers and barrel vault applications with a radius as tight as 16 feet in aluminum; custom extruded battens available.



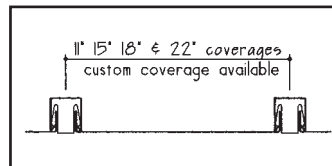
CUSTOMFORM ARCHITECTURAL ROOFING, MANSARD, SOFFIT AND FASCIA PROFILES



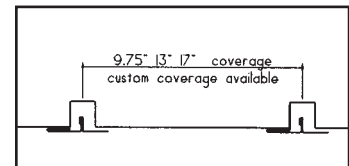
305



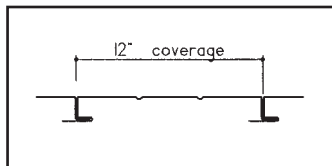
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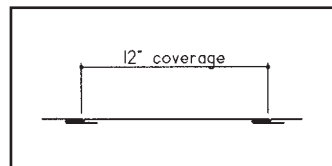
B1515-R



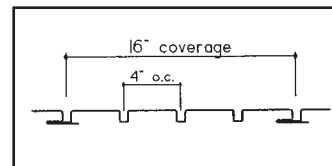
114-R



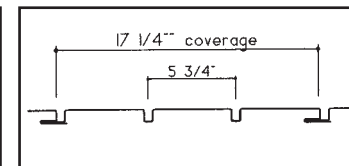
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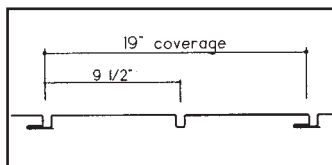
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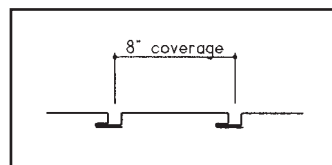
104-S*



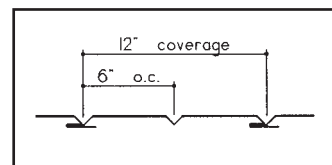
106-S†



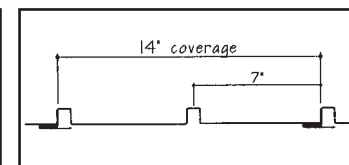
108-S**



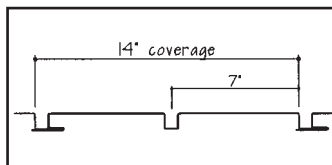
108-F



150



107-R



107-S

* Recommended for use as soffit only.

** Use with discretion on long runs where oilcanning is objectionable.

† Note that 104, 106, and 108 are available "Reverse Run," where ribs are featured on finished surface in lieu of flat, as shown.

- 114R. Integral batten and pan system, offering special economy.
- 305. Integral batten and pan system with snap-fit side joint; stiffening beads and conical tapers available.
- 306. Narrow seam system, suitable for straight runs, conical tapers and barrel vault applications with a radius as tight as 3 feet in aluminum; choice of seam heights; stiffening beads available.

MANSARDS, SOFFITS, FASCIA & FRAMING

Customform roofing systems are complemented by a variety of mansard, soffit and fascia systems that ensure a seamless continuity of form and texture, and smooth transitions from plane to plane and from the roof to soffits, mansards and other building elements.

Customform mansard, soffit and fascia panels are factory-formed in 13 styles that offer distinctive profiles, a variety of standard dimensions, and custom measures. In addition, soffits are available perforated — for ventilation in horizontal under-eave applications — and nonperforated. All necessary trim can be supplied.

Customform framing systems in 16-, 18-, 20- and 22-gauge galvanized steel — factory-fabricated and certified in-house to meet your specifications — provide efficient, economical support for equipment screens, mansards, soffits and fascia.

MERCHANT & EVANS MAKES

OPTIONS A STANDARD.

MIRRORING YOUR IMAGINATION

Offering a selection of panel materials in a variety of gauges and surface treatments, Merchant & Evans can help you achieve your creative vision and meet a wide range of design objectives. Whether you require the evocative patina of weathered copper or zinc, the contemporary sheen of brushed metal or a bold declaration of brilliant color, our array of materials, finishes and coatings — and our commitment to design details of outstanding quality — will capture the look you want.

THE SUBSTANCE OF YOUR VISION

Merchant & Evans makes options a standard in its choice of panel materials. Panels are available in either steel (22- or 24-gauge) or aluminum (.032-, 0.040- or 0.050-inch), in smooth or embossed finishes.

In addition, our engineers and craftsmen will custom-fabricate panels from a variety of alternative materials, delivering the

appearance and performance you desire. From the soft gray of zinc to the aesthetic variations of copper, from the weathered look of anodized finishes to subtly tinted surfaces, our capabilities are bounded only by your design objectives.

COLORED TO PERFECTION

Merchant & Evans offers high-performance Kynar 500® and Hylar 5000® fluorocarbon resin-based coatings, the industry standards for long-life protection, on all our systems. Panels are primed and finished with a nominal 1 mil topcoat on the exterior surface and a washcoat on the reverse. (Multimil coatings, silicone polyesters and vinyl plastisol systems are also available on a project basis.)

Merchant & Evans makes available a wide range of popular architectural colors. In addition, a virtually endless selection of custom colors and metallics is available on a project basis.



THE MERCHANT & EVANS

TEAM OFFERS FULL SUPPORT

THROUGH ALL PHASES OF

YOUR PROJECT, AND WE

BACK OUR PRODUCTS WITH

FULL-COVERAGE WARRANTIES.



PUTTING YOUR PROJECT FIRST

For well over a century, Merchant & Evans has built unique hand-crafted architectural components, and that tradition of custom work and skilled craftsmanship — and the essential commitment to a project's every detail — continues today. Whether your design requires custom fabrication or standard materials, the Merchant & Evans team offers full support through all phases of your project, and we back our products with full-coverage warranties that carry our commitment well beyond the completion of your structure.

SPECIALTY FABRICATION

Our modern manufacturing facility houses the skilled metal craftsmen and technical capability that can transform your unique design ideas into striking, carefully detailed architectural elements. Our craftsmen fashion the required templates or forms by hand and fabricate the final design in copper, steel, zinc, or aluminum.

Our commitment to specialty fabrication is unique in the industry, adding versatility to the comprehensive selection of products



— and underscoring our commitment to every detail of your project.

OUR TEAM IS YOURS

Merchant & Evans in-house engineers, technical field representatives, architectural sales representatives, draftsmen and craftsmen stand ready to assist you at every stage, from design through installation. In fact, our team is at work on your project before it even begins, conducting ongoing product design and analysis programs, as well as extensive testing. Our engineering research has allowed us to continually produce innovative and reliable products, creating the best possible exterior metal building systems available.

Our experienced staff thoroughly engineers and details every part of a Merchant & Evans system, and our in-house draftsmen deliver detailed shop drawings to address field

OUR ENGINEERS, TECHNICAL

FIELD REPRESENTATIVES,

SALES REPRESENTATIVES,

DRAFTSMEN AND CRAFTSMEN

STAND READY TO ASSIST YOU

AT EVERY STAGE.

Merchant & Evans technical staff, draftsmen and skilled craftsmen deliver an "under-one-roof" solution to every roofing challenge, and our continuing research, unsurpassed quality control and custom capabilities help you turn your best design ideas into reality.

conditions. The Merchant & Evans team offers unsurpassed technical assistance on a wide range of construction and application issues — such as determining the proper coating, minimizing oilcanning, detailing gutters, maintaining a finished system, and handling dissimilar construction metals.

The Merchant & Evans attention to detail allows our staff to provide accurate information to designers and contractors, and it's at the heart of our quality control program, which has produced the highest efficiency rate in the exterior metal industry. That same attention to detail ensures that our products are packaged safely and securely for nationwide or overseas delivery — on time and within budget.

Merchant & Evans will also bring our factory staff and capabilities to the job site to meet your project's requirements. Our exclusive, factory-owned state-of-the-art roll-forming equipment has produced

factory-quality Zip-Rib panels on site in lengths up to 290 feet, all but eliminating the need for end laps.

Finally, our network of factory-trained and -certified erectors/installers ensures installation of your Merchant & Evans system in conformance with factory mandates, for your complete protection.

WARRANTED FOR LONG LIFE

All Merchant & Evans metal products are warranted against defects in material and workmanship as delivered to the erector. Panels that are properly installed on an approved project by a certified installer/erector are warranted for structural integrity, finish performance, and weather tightness to meet specific project specifications.

Kynar 500 and Hylar 5000 fluorocarbon resin-based coatings are fully warranted against excessive chalking, fading, chipping and blistering when used on qualifying applications.

Specific warranties, including the manufacturers' warranties on Kynar 500, Hylar

FOR MORE INFORMATION ON

MERCHANT & EVANS

ROOFING SYSTEMS

AND OUR SPECIALTY

FABRICATION CAPABILITIES,

CALL 800-257-6215.

5000 fluorocarbon resin-based coatings and other finish systems, can be obtained by contacting Merchant & Evans.

For more information on Merchant & Evans roofing systems, including construction details, guide specifications and details on our extensive selection of standard and custom colors and finishes, or for more information on our specialty fabrication capabilities, call the Merchant & Evans Hot Line, 800-257-6215.



Curved to perfection:
Merchant & Evans offers capabilities second to none in the industry. From architectural cladding to functional Zip-Rib, no other manufacturer offers more design options.

VISIT OUR NEW WEBSITE:






WWW.ZIPRIB.COM

- Corporate Information
- Products
- Portfolio of Projects
- Slide Show
- CAD Details
- Guide Specifications
- Video Library
- Technical Data
- Contact Us

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