

### Max-Rib Design Matrix

Please use this design matrix to choose the Max-Rib line that matches your expectations.

Design Requirements	Max-Rib Ultra	Max-Rib 100	Max-Rib II	Max-Rib 60	Max-Rib Utility
Fade Resistance	✓				
Chalk Resistance	✓				
Longevity	✓	✓	✓		
Gloss Retention	✓				
Basic Shade and Shelter				✓	✓
Residential Roofing	✓				
Corrosion Resistance	✓	✓	✓		
Budget				✓	✓
Coating Warranty	<b>BEST</b>	<b>BETTER</b>	<b>BETTER</b>	<b>GOOD</b>	<b>NOT AVAILABLE</b>
Long-Term Owner Satisfaction	✓				

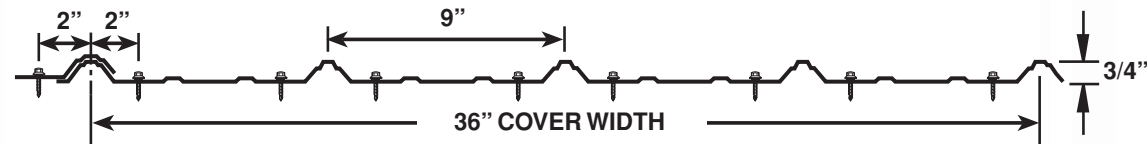
#### METAL FASTENERS



Sealing material slightly visible at edge of metal washer. Assembly is weathertight.

Sealing material not visible. Not enough compression to seal properly.

Sealing material extruded beyond edge of washer.



#### RECOMMENDED FASTENER LOCATION

At base, eave, ridge & lap: 2" on each side of major ribs (as shown). At intermediate supports: 2" on one side of major ribs. • Standard spacing: 24" o.c. Maximum spacing: 48" o.c. • Stitch screw recommended every 20" maximum. • Recommended location for nails: Through major ribs at support line.

#### FASTENERS

McElroy offers several types of fasteners for use with Max-Rib. Similar to metal panels, different fasteners offer varying degrees of performance. Selection of appropriate fasteners to ensure desired long-term performance is the purchaser's responsibility. Please contact your McElroy representative for more information.



Trusted by professionals throughout America

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McElroy Metal

# MAX-RIB

## METAL ROOF & WALL PANELS



# BUILD WITH THE BEST.

# BUILD WITH McELROY METAL.

## Quality...Service...Performance.

Since 1963, these traits have been the cornerstone of McElroy Metal's business philosophy and success. Today, McElroy Metal is a national company with 22 sites in 17 states, yet we remain family owned and still believe that business ethics and morals have a place in the work environment. We continue to conduct business under the Golden Rule adage. Customers deserve to be treated the same way we expect to be treated by our suppliers.

### At McElroy We Believe . . . . .



### All metal panels are not created equal.



Varying applications, end uses, and expectations require different metal panel alternatives. Fortunately, McElroy Metal has the most comprehensive product offering in the light gauge industry. Whether your specifications require a long-lasting fade and chalk resistant panel or simply a non-warranted shade and shelter panel, you can count on McElroy Metal.

### McElroy's Max-Rib Options

McElroy's popular Max-Rib profile is available in five diverse options: Max-Rib Ultra, Max-Rib 100, Max-Rib II, Max-Rib 60 and Max-Rib Utility. The best choice for your individual project depends on factors such as desired longevity, aesthetic appeal, and budget.

#### • Max-Rib Ultra - Galvalume® Substrate with Kynar 500® coating.

For unsurpassed performance in a light gauge panel, Max-Rib Ultra is the ultimate choice. This distinctive metal panel combines the long-life performance of a Galvalume substrate with a fade and chalk resistant Kynar 500 based Fluoropolymer® paint system. The end result is an exceptional metal panel that provides unmatched resistance to chalking and fading and is your assurance that your project will retain its beauty year after year.

**Finish Warranty:** 40 Years **Red Rust Warranty:** 15 Years

#### • Max-Rib 100 - Galvanized G100 Substrate with a Siliconized Polyester coating.

Combining a zinc coated G100 galvanized substrate with a high quality siliconized polyester coating, Max-Rib 100 is an ideal product when a galvanized substrate is required.

**Finish Warranty:** 30 Years **Red Rust Warranty:** 10 Years

#### • Max-Rib II - Galvalume Substrate with a Siliconized Polyester coating.

Combining the long-life characteristics of a Galvalume substrate with the proven performance of a high quality siliconized polyester coating, Max-Rib II is an excellent multi-use metal panel.

**Finish Warranty:** 30 Years **Red Rust Warranty:** 10 Years

#### • Max-Rib 60 - Galvanized G60 Substrate with a Siliconized Polyester coating.

Combining an economical G60 substrate with a high quality siliconized polyester paint system, Max-Rib 60 is designed to provide desired performance when budget is an important element of the design consideration.

**Finish Warranty:** 30 Years **Red Rust Warranty:** 5 Years

#### • Max-Rib Utility

Max-Rib Utility is a non-warranted economical panel that is ideal for basic shade and shelter applications.

\* Contact McElroy Metal to obtain a copy of actual warranties or visit [www.mcelroymetal.com](http://www.mcelroymetal.com)

### Facts about metal panels.

The two primary components of any steel panel are the substrate and coating system. Many combinations of substrate and coating are available today in the marketplace, and consumers need to be aware that the individual quality and performance of these two components are critical to the longevity, appearance and overall performance of the panel.

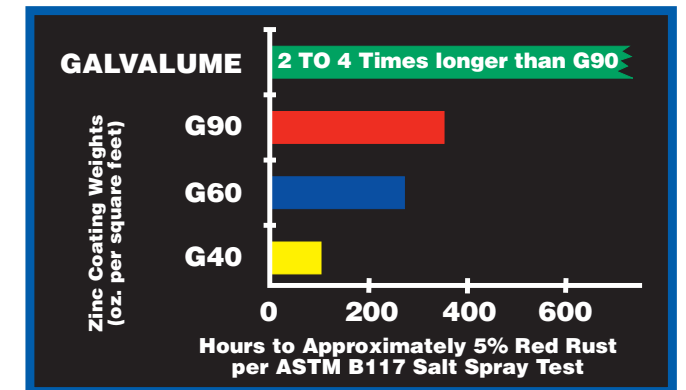
### Facts about substrates.

The most popular steel substrates in the metal roofing and siding industry are Galvanized and Galvalume. Galvanized substrates are coated in zinc, while Galvalume substrates are coated with an alloy of zinc plus aluminum. Both Galvalume and Galvanized are good substrates for metal panels.

The important point to remember with galvanized substrates is *the greater the amount of zinc, the greater the protection against panel corrosion*. Two commonly used substrates are G100 and G60. These designations relate to the total amount of zinc coated on both sides of the metal panel surfaces. G100 contains 1.0 ounces of zinc for every one square foot of panel while G60 substrates contain 0.6 ounces of zinc. The important fact to consider is that the G100 substrate contains 66% more protective zinc than the G60 substrate. This difference will have a direct correlation to panel longevity and long-term aesthetics of your project.

Galvalume substrates combine the proven corrosion protection properties of zinc with the barrier protection of aluminum. The end result is a superior substrate that will provide years of service life for most applications. In fact, Galvalume substrates are warranted from the steel mills against perforation due to rust. Galvanized substrates do not carry a perforation warranty.

Although Galvalume substrate is noted for its corrosion resistance, it is not recommended for the special demands



The above chart indicates the amount of time it takes for a panel to acquire 5% red rust. Note the superior performance of Galvalume.

of animal confinement applications. Please contact your McElroy representative regarding applications of this type.

Metal panels using bare or acrylic-coated Galvalume substrates often exhibit noticeable color variations from panel to panel. If a uniform appearance is critical to the end user, a painted product is recommended.

### Facts about coatings.

The coating system, or paint, for metal panels is just as important as the substrate. For the life of the panel, the surface, or coating, will be exposed to environmental elements - ultraviolet sun rays, acid rain, dirt, etc. Over time, these environmental conditions will break down the coating resulting in panel fade and chalk.

Fade and chalk is not pleasing to the eye, and the degree of fade and chalk is directly related to the coating system. The most popular coatings for metal panels are Kynar 500, Siliconized Polyester and Polyester. Of the three, Kynar 500 coatings provide the best protection against fade and chalk while Polyester coatings provide the least protection.



(A) CHALK

(B) FADE

**CHALK:** (A) The white appearance is caused by chalking. The silhouette is the result of tree leaves rubbing chalk off the panels. The blue panels at the far right are part of a building expansion and represent original building color.

**FADE:** (B) Partial removal of the sign indicates fade due to ultraviolet exposure.