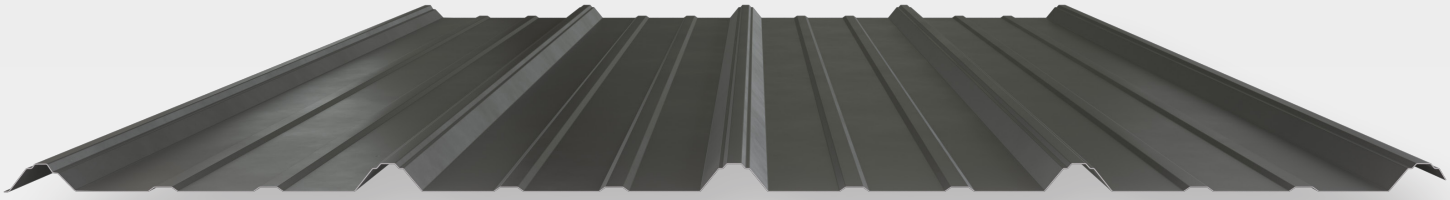
Tuff Rib

Tuff Rib Panel is a cost-effective option for metal roofing and wall applications. Our Tuff Rib panels, formed from light-gauge steel (29ga), offer versatile solutions suitable for residential, commercial, industrial, and agricultural applications. These panels are available in customizable lengths from 36″ to 50′, allowing for versatile installation options.

Featuring a generous 36″ coverage, industry-leading finishes, and high production volumes, Tuff Rib steel roofing and siding systems ensure quality while remaining accessible to all. Metal America® can color-match fasteners to the panels. Engineered with anti-siphon grooves, Tuff Rib panels are suitable for roofs with a 3:12 pitch, offering secure installation over open frames and reliable performance even in high winds.

Tuff Rib



MATERIAL SPECIFICATIONS

Available Gauges: 29ga

Weight: 1.98lbs/LnFt (29ga)

Substrate: Grade 80

Minimum Slope: 3:12

TRIM SPECIFICATIONS

Warranties: Weather XL

Testing: UL 580 Wind Uplift (Class 90), UL 2218 Class 4 Hail Impact, UL 790 Class A Fire Rating

Notes: Strength calculations based on the 2016 AISI Section “North American Specification for the Design of Cold-Formed Steel Structural Members.” Allowable loads are applicable for uniform loading and spans without overhangs. LIVE LOAD/DEFLECTION: Load capacities are for those loads that push the panel against its support. The applicable limit states are flexure, shear, combined shear and flexure, web crippling at end and interior supports, and a deflection limit of L/180 under strength-level loads. NEGATIVE WIND LOAD CAPACITIES: Are for those loads that pull the panel away from its supports. The applicable limit states are flexure, shear, combined shear and flexure, and a deflection limit of L/60 under 10-year wind loading. PANEL PULL-OVER AND SCREW: Pull-out capacity must be checked separately using the screws employed for each particular application when utilizing this load chart. Effective yield strength has been determined in accordance with Section A3.1.1 of the 2012 NAS specification. The use of any accessories other than those provided by the manufacturer may damage panels, void all warranties, and will void all engineering data. This material is subject to change without notice; please contact Metal America for the most current data.

COLOR OPTIONS

Available Materials: Painted & Galvalume

Paint Systems: Weather XL

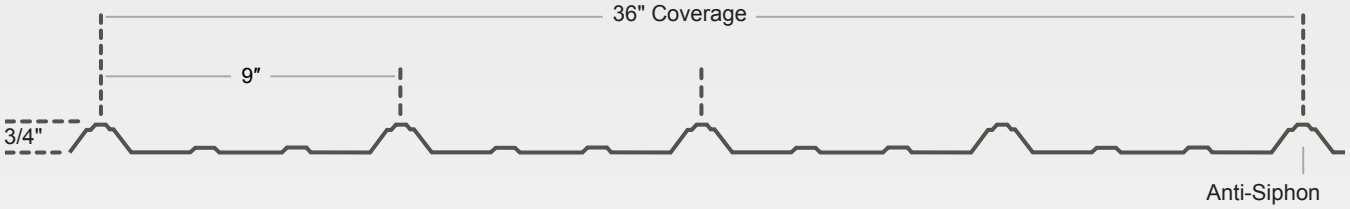
OPTIONS

Fastener Application: Screws are to be applied next to every rib and then up the panel, no more than 2′0″ apart. On low slope roofs, Mastic Tape must be applied between the panel side laps with Stitch Screws installed every 1′0″ up the panel. At the eave or end laps, a double screw pattern should be used with screws applied to both sides of the rib.

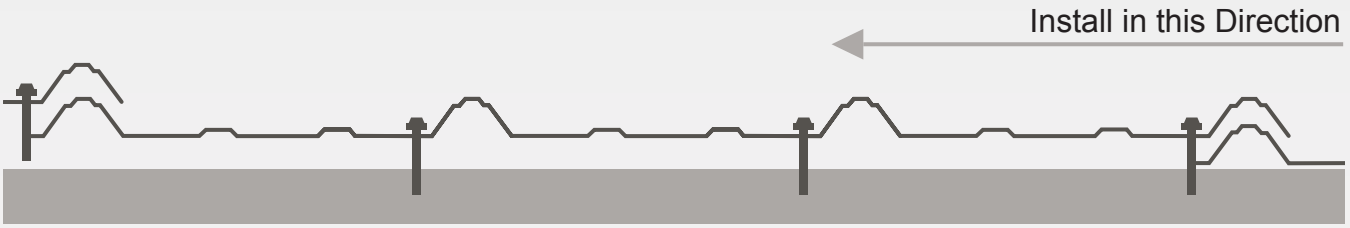
Note: It is the responsibility of the builder to ensure that purlins are adequately spaced to meet specific engineering requirements.

The engineering data contained herein is for the expressed use of customers and design professionals. Along with this data, it is recommended that the design professional have a copy of the most current version of the North American Specification for the Design of Cold-Formed Steel Structural Members published by the American Iron and Steel Institute to facilitate design. The specification contains the design criteria for cold-formed steel components. Along with the specification, the designer should reference the most current building code applicable to the project job site to determine environmental loads. Further information or guidance regarding cold-formed design practices is available from the manufacturer.

PANEL PROFILE



SCREW PATTERN



EAVES & END LAPS