

**Metal Sales**

**Manufacturing Corporation**

This specification data sheet is provided by Metal Sales Manufacturing Corporation as a technical support tool incident to the sale of its 2" Rib Series products. Contact Metal Sales for more information on these and other products.

Telephone: 800.406.7387  
metalsales.us.com

**Section 07 41 13 - METAL ROOF PANELS**

**1. PRODUCT NAMES**

2" Rib Series: T2630 or T2832 metal roof panels

**2. MANUFACTURER**

Metal Sales Manufacturing Corporation  
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Sellersburg, IN 47172  
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**3. PRODUCT DESCRIPTION**

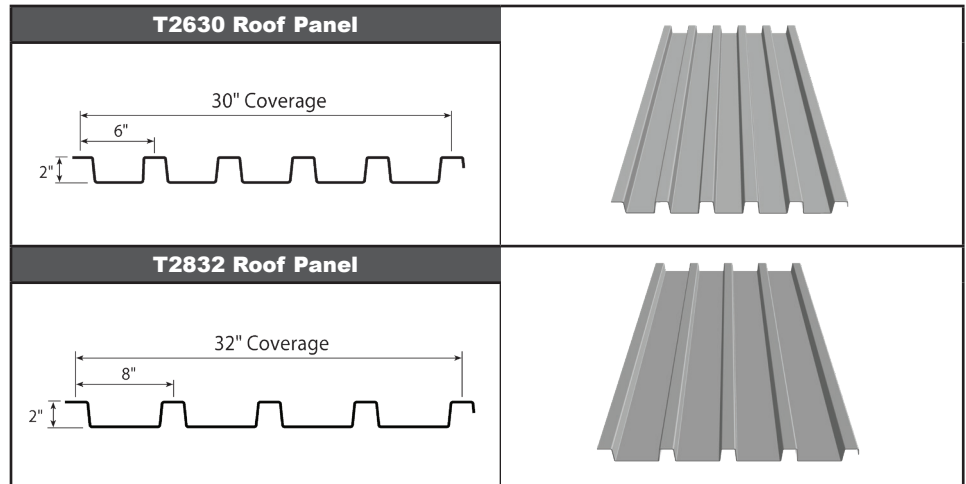
**Basic Use**

For more than 60 years, Metal Sales has earned a reputation as the premier provider of metal building components and accessories. Metal Sales maintains the industry's largest professional sales and service team, supported by 21 branches located throughout the United States and offers a full line of high quality metal roof and wall panels for agricultural, commercial, architectural, industrial and residential projects of every shape and size for both new construction and retrofit applications. Metal Sales is dedicated to leading the metal building component industry, by setting new standards for operating efficiency, product design, active service management and lasting value.

**Manufacturer Memberships and Affiliations**

CRRC - Cool Roof Rating Council  
MCA - Metal Construction Association  
NRCA - National Roofing Contractors Association  
ILFI - International Living Future Institute  
MasterSpec

**2" RIB SERIES**



**4. TECHNICAL DATA**

**Applicable Standards**

- ASTM A 653 - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron-Alloy-Coated (Galvannealed) by the Hot-Dip Process
- ASTM A 792 - Standard Specification for Steel Sheet, 55% Aluminum-Zinc Alloy-Coated by the Hot-Dip Process
- ASTM B 209 - Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate
- ASTM D 2244 - Standard Practice for Calculation of Color Tolerances and Color Differences from Instrumentally Measured Color Coordinates
- ASTM D 4214 - Standard Test Methods for Evaluating the Degree of Chalking of Exterior Paint Films
- ASTM E 84 - Standard Test Method for Surface Burning Characteristics of Building Materials
- ASTM E 119 - Standard Test Methods for Fire Tests of Building Construction and Materials
- ASTM E 1592 - Standard Test Method for Structural Performance of Sheet Metal Roof and Siding Systems by Uniform Static Air Pressure Difference
- ASTM E 1646 - Standard Test Method for Water Penetration of Exterior Metal Roof Panel Systems by Uniform Static Air Pressure Difference
- ASTM E 1680 - Standard Test Method for Rate of Air Leakage through Exterior Metal Roof Panel Systems

Underwriters Laboratories (UL):

- UL 263 - Fire Tests of Building Construction and Materials

- UL 790 - Standard Test Methods for Fire Tests of Roof Coverings

- UL 2218 - Impact Resistance of Prepared Roof Covering Materials

**Physical Properties:**

Test reports are available to design professionals upon request.

Note: Industry designation for material thickness is moving away from "gauge" to decimal thickness in inches. Metal Sales Manufacturing Corporation recommends use of a minimum thickness requirement of 0.0230 inch (0.58 mm) instead of 24 gauge, 0.0296 inch (0.75 mm) instead of 22 gauge, 0.0356 inch (0.90 mm) instead of 20 gauge and 0.0466 inch (1.18 mm) instead of 18 gauge. For Galvalume-coated steel, specify AZ50 for painted material or AZ55 for unpainted material.

**Technical Properties: T2630 and T2832:**

- ▶ Panel Coverage: 30 inches (762 mm), 32 inches (812.8 mm)
- ▶ Rib Height: 2 inches (50.8 mm)
- ▶ Material: Aluminum-zinc alloy-coated steel sheet, ASTM A 792, AZ50 or AZ55 coating designation, structural quality, Grade 50, 0.0230-inch (0.58-mm) or 0.0296-inch (0.75-mm) minimum thickness
- ▶ Material: Zinc-coated steel sheet, ASTM A 653, G90 coating designation, structural quality, Grade 33, 0.0356-inch (0.90-mm) or 0.0466-inch (1.18-mm) minimum thickness
- ▶ Material: Aluminum sheet, ASTM B 209, 0.032-inch (0.81-mm), 0.040-inch (1.02-mm) or 0.050-inch (1.27-mm) nominal thickness
- ▶ Minimum Roof Slope: 1:12
- ▶ Attachment: Exposed direct fastened panel
- ▶ Application: Designed for application over open framing or solid substrate
- ▶ Rib Configuration: Box Rib
- ▶ Perforation: Optional
- ▶ Surface Finish: PVDF (Kynar 500), Multi-pass Kynar 500), Marblique, Plastisol or Polyester
- ▶ Color: Select from manufacturer's standard colors.
- ▶ Testing: Fire Resistance Rating: Complies with UL 263 and UL 790 Class A Fire Resistance Ratings  
Impact Resistance: UL 2218, Class 4

**Environmental Considerations**

Construction metals generally are readily recyclable at the end of their service life. The raw materials used in manufacture of metal roof panels also come from recycled sources. Pre-consumer and post-consumer recycled content varies. Consult with manufacturer for more information.

**Fire Performance**

In accordance with ASTM E 84:  
Flame Spread Index: 25 or less (Class A)  
Smoke Developed Index: 0

**5. INSTALLATION****Handling and Storage**

Handle and store product according to Metal Sales recommendations. Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact. Store materials above ground, under waterproof covering, protected from exposure to harmful weather conditions and at temperature and humidity conditions recommended by manufacturer. Provide proper ventilation of metal panel system to prevent condensation build-up between each panel and trim or flashing component. Tilt stack to drain in wet conditions. Remove strippable plastic film before storage under high-heat conditions. Store products in manufacturer's

unopened packaging until just prior to installation. Exercise caution in unloading and handling metal panel system to prevent bending, warping, twisting and surface damage.

**Preparation**

Install substrate boards over roof deck and sheathing over entire roof surface using recommended fasteners. Install furring, eave angles, sub-purlins and other miscellaneous roof panel support members and anchor according to metal roof panel manufacturer's recommendations. Ensure panel support is in-plane. Limit in-plane variance to no more than a total of 1/4 inch (6 mm) on 10 feet (3 m).

**Underlayment Installation**

Install self-adhering sheet underlayment and felt underlayment as required. Apply slip sheet over underlayment prior to installing metal roof panels. Install flashing in compliance with requirements in Division 07 Section "Sheet Metal Flashing and Trim".

**Thermal Insulation Installation**

Install polyethylene vapor retarder if required. Install board insulation if required, in compliance with installation requirements in Division 07 Section "Thermal Insulation" requirements. Install blanket insulation if required, in compliance with installation requirements in Division 07 Section "Thermal Insulation".

**Metal Roof Panel Installation**

Verify that site conditions are acceptable for installation. Do not proceed with installation until unacceptable conditions are corrected. Comply with panel manufacturer's installation instructions including but not limited to special techniques, interface with other work and integration of systems. Attach metal roof panels to supports with the proper fasteners, fastening pattern and spacing as recommended by panel manufacturer. Comply with installation tolerances.

**Accessory Installation**

Install accessories using techniques recommended by manufacturer and which will assure positive anchorage to building and weather tight mounting. Provide for thermal movement. Coordinate installation with flashings and other components. For Flashing and Trim, comply with performance requirements, manufacturer's written installation instructions and the SMACNA "Architectural Sheet Metal Manual". Provide concealed fasteners where possible and install units to true level. Install work with laps, joints and seams that will be permanently watertight.

**Field Quality Control**

If requested by Owner, provide manufacturer's field

service consisting of product use recommendations and periodic site visits for inspection of product installation in accordance with manufacturer's instructions.

**Precautions, Cleaning and Protection**

Touch-up paint is used to cover and protect unexpected scratches on the paint finish that may occur during installation of panel. Touch-up paint will not weather as well or at the same rate as the original system. Test in an area that will not be noticeable. Metallic paint colors are available at an additional charge. Minor differences in color and appearance are normal and to be expected.

To minimize possible differences in appearance, an entire project should be painted at one time, from one batch of paint, using the same application equipment. Additionally, fabricated panels, flat sheet and flashings should be oriented in the same direction.

After installation remove temporary coverings and protection of adjacent work areas. Repair or replace any installed products that have been damaged. Clean installed panels in accordance with manufacturer's instructions prior to Owner's acceptance. Remove and lawfully dispose of construction debris from Project site. Protect installed product and finish surfaces from damage during construction.

**Building Codes**

Current data on building code requirements and product compliance may be obtained from Metal Sales technical support specialists. Installation must comply with the requirements of authority having jurisdiction.

**6. AVAILABILITY AND COST****Availability**

Metal Sales products are nationally distributed and supported from 21 convenient locations nationwide, including Alaska. Manufacturer has the ability to ship worldwide. Contact manufacturer for information on local availability.

**Cost**

Budget installed cost information may be obtained from a local Metal Sales distributor or directly from the manufacturer.

**7. WARRANTY**

Special Exposed Panel Finish Warranty: Manufacturer's standard form PVDF (Fluorocarbon System) Warranty for film integrity, chalk rating and fade rating in which manufacturer agrees to repair or replace panels that show evidence of deterioration within specified warranty period. Deterioration shall include, but is not limited to, color fading of more than 5 Hunter units when tested according to ASTM D 2244, chalking in excess of a No. 8 rating when tested according to ASTM D 4214 or cracking, checking, peeling or failure of paint to adhere to bare metal. Warranty Period for film integrity is 45 years and for chalk and fade rating is 35 years. Metal Sales warranty excludes surface deterioration due to physical damage and exposure to salt environments.

**8. MAINTENANCE**

No specific maintenance is required for properly installed Metal Sales metal roof panel products. Periodic roof inspection to verify system integrity, drainage functionality and repair of storm damage is advised.

**9. TECHNICAL SERVICES**

Technical assistance, including more detailed information, product literature, test results, project lists, assistance in preparing project specifications and arrangements for application supervision, is available by contacting Metal Sales.

**10. FILING SYSTEMS**

Additional product information is available from the manufacturer, upon request and from MasterSpec.