

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 Board and Batten Panel products. Contact Metal Sales for more information on these and other products.
Telephone: 800.406.7387
metalsales.us.com

Section 07 42 13 - METAL WALL PANELS

1. PRODUCT NAME

Board and Batten Series concealed fastened metal wall panels

2. MANUFACTURER

Metal Sales Manufacturing Corporation
7800 Highway 60
Sellersburg, IN 47172
Toll Free: 800.406.7387
Phone: 502.855.4300
Fax: 502.855.4200
Web: metalsales.us.com
E-Mail: rgage@metalsales.us.com

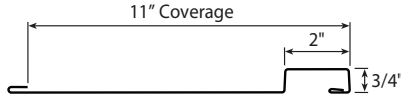
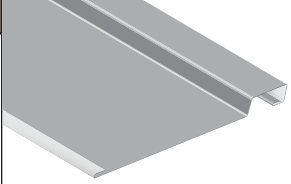
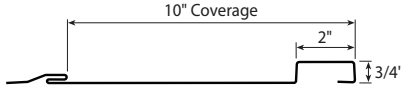
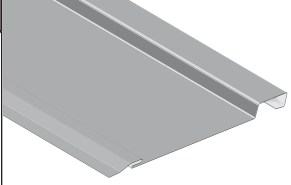
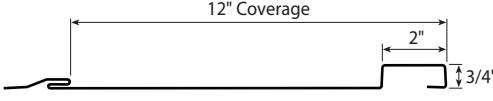
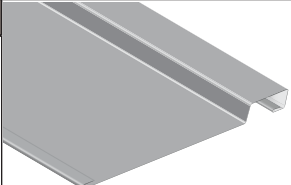
3. PRODUCT DESCRIPTION

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 18 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
MasterSpec

Concealed Clip-Fastened	
BB75-1111 • 11" Coverage 	
Concealed Direct-Fastened	
BBD75-1010 • 10" Coverage 	
BBD75-1212 • 12" Coverage 	

4. TECHNICAL DATA

Applicable Standards

- ASTM A 792 - Standard Specification for Steel Sheet, 55% Aluminum-Zinc Alloy-Coated by the Hot-Dip Process
- 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 283 - Standard Test Method for Determining rate of Air Leakage Through Exterior Windows, Curtain Walls and Doors Under Specified Pressure Differences Across Specimen
- ASTM E 330 - Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference

●ASTM E 331 - Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors and Curtain Walls by Uniform Static Air Pressure Difference

●ASTM E 1592 - Standard Test Method for Structural Performance of Sheet Metal Roof and Siding Systems by Uniform Static Air Pressure Difference

Underwriters Laboratories (UL):

●UL 263 - Fire Tests of Building Construction and 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 recommends use of a minimum thickness requirement of 0.0230 inch (0.58 mm) instead of 24 gauge. For Galvalume-coated steel, specify AZ50 for painted material or AZ55 for unpainted material.

Technical Properties for Concealed Clip-Fastened Board and Batten panels:

- ▶ Panel Coverage: 11 inches (279.4 mm)
- ▶ Panel Depth: 3/4 inch (19.05 mm)
- ▶ Attachment: Concealed, clip-fastened panel
- ▶ 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)
- ▶ Application: Designed for application over solid sheathing or open framing
- ▶ Rib Configuration: Box
- ▶ Installation Orientation: Vertical or Horizontal
- ▶ Surface Finish: PVDF or Acrylic Coated Galvalume®
- ▶ Color: Contact Metal Sales for information on color availability.
- ▶ Max Panel Length: 20'-0" (6.1m)
- ▶ Min Panel Length: 5'-0" (1.5m)
- ▶ Testing: Fire Resistance Rating: Complies with UL 263, depending on assembly.
- ▶ 2023 Florida Building Code Approval: FL47647.1

Technical Properties for Concealed Direct-Fastened Board and Batten panels:

- ▶ Panel Coverage: 10 inches (254 mm) or 12 inches (304.8 mm)
- ▶ Panel Depth: 3/4 inch (19.05 mm)
- ▶ Attachment: Concealed, direct-fastened panel
- ▶ 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)
- ▶ Application: Designed for application over solid sheathing or open framing
- ▶ Rib Configuration: Box
- ▶ Installation Orientation: Vertical or Horizontal

▶ Surface Finish: PVDF or Acrylic Coated Galvalume®

▶ Color: Contact Metal Sales for information on color availability.

▶ Max Panel Length: 20'-0" (6.1m)

▶ Min Panel Length: 5'-0" (1.5m)

▶ Testing: Fire Resistance Rating: Complies with UL 263, depending on assembly.

▶ 2023 Florida Building Code Approval: FL47647.1

Environmental Considerations

Construction metals generally are readily recyclable at the end of their service life. The raw materials used in manufacture of metal wall 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.

Typical Assemblies

- Wood sheathing on stud framing w/ moisture barrier
- Wood sheathing on girt framing with moisture barrier
- Wood framing with moisture barrier
- Steel framing with moisture barrier

Preparation

Install substrate boards over deck and sheathing over entire surface using recommended fasteners. Anchor metal panels to supports according to metal panel manufacturer's recommendations. Ensure panel supports are plumb and in-plane. Limit in-plane variance to no more than a total of 1/4 inch (6 mm) on 10 feet (3 m).

Moisture Barrier Installation

Install self-adhering sheet underlayment as required. Install flashing in compliance with requirements in Division 07 Section "Sheet Metal Flashing and Trim" and Metal Sales recommendations.

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 Wall Panel Installation

Board and Batten Panels may be installed in a vertical orientation working from Left to Right or Right to Left. They may also be installed in a horizontal orientation. For this application panels must be installed from the bottom to the top. Panels shorter than 5' will have to be field cut. 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. Fasten metal wall panels to supports with concealed clips at each side-seam joint location, spacing and using proper fasteners as recommended by panel manufacturer. Comply with installation tolerances as required.

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 and plumb. Install work with moisture barrier, 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**Weather Tightness Warranty**

Metal Sales Weather Tightness Warranties are available in several forms. Request sample warranty documents from manufacturer for review and editing assistance. Metal Sales warranty excludes failure due to physical damage and surface deterioration due to exposure to salt environments. Warranty Period is optionally 5, 10 or 20 years.

Type 2 Warranty:

Trim and side-lap warranty, with dollar limit

Type 4 Warranty:

Trim and side-lap warranty, with no dollar limit

7. WARRANTIES**Paint Finish Warranty**

Metal Sales standard 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 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.