

Metal Sales Manufacturing Corporation

This specification data sheet is provided by Metal Sales as a technical support tool incident to the sale of its Structural Standing Seam Steel Roof Panel products. Contact Metal Sales for more information on these and other products.

Section 05 40 00 - COLD-FORMED METAL FRAMING

1. PRODUCT NAME

Cees, Zees, Channels, Angles, Subgirts

2. MANUFACTURER

Metal Sales Manufacturing Corporation
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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
 MasterSpec

4. TECHNICAL DATA

Applicable Standards

- ASTM International (ASTM)
- 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.

Materials

- Steel sheet for roll-formed or press-broke members of the gage indicated herein, conforming to ASTM A 1011 and minimum yield strength 55,000 PSI and minimum tensile strength 70 ksi.
- Structural shapes, if required for special conditions, shall conform to ASTM A 36 and minimum yield strength of 36,000 PSI.

CEE Galvanized			
	Web	Flange	Gauge
	4"	2.5"	16
	6"	2.5"	16
	6"	2.5"	14
	5"	3"	16
2.5"	1.5"	16	
ZEE Galvanized			
	Web	Flange	Gauge
	8"	2.5"	16
	10"	2.5"	14
CHANNELS Galvanized			
	Web	Flange	Gauge
	10.125"	3"	14
	6.125"	3"	16
	5.125"	3"	16
	2.625"	1.5"	16
ANGLES Galvanized			
	3"	16 Gauge	
	4"	16 Gauge	
SUBGIRT Galvanized			
	3/4"	1"	18 Gauge

Technical Properties for CEE Purlins:

- ▶ Sizes: 4 inches x 2.5 inches, 6 inches x 2.5 inches, 5 inches x 3 inches, 6 inches x 2.5 inches
- ▶ Material: ASTM A 653, G90 coating designation, structural quality, 14 Ga. and 16 Ga.
- ▶ Attachment: Fastener
- ▶ Application: Secondary framing
- ▶ Surface Finish: Galvanized

Technical Properties for ZEE Purlins:

- ▶ Sizes: 8 inches x 2.5 inches and 10 inches x 2.5 inches
- ▶ Material: ASTM A 653, G90 coating designation, structural quality, 14 Ga. and 16 Ga.
- ▶ Attachment: Self drilling, self tapping screws, bolts, nuts, and washers: Hot dip galvanized: ASTM A 90
- ▶ Application: Secondary framing
- ▶ Surface Finish: Galvanized

Technical Properties for CHANNELS:

- ▶ Sizes: 10.125 inches x 3 inches, 6.125 inches x 3 inches, 5.125 inches x 3 inches, 2.625 inches x 1.5 inches
- ▶ Material: ASTM A 653, G90 coating designation, structural quality, 14 Ga. and 16 Ga.
- ▶ Attachment: Self drilling, self tapping screws, bolts, nuts, and washers: Hot dip galvanized: ASTM A 90
- ▶ Application: Secondary framing
- ▶ Surface Finish: Galvanized

Technical Properties for ANGLES:

- ▶ Sizes: 3 inches x 3 inches and 4 inches x 2 inches
- ▶ Material: ASTM A 653, G90 coating designation, structural quality, 16 Ga.
- ▶ Attachment: Self drilling, self tapping screws, bolts, nuts, and washers: Hot dip galvanized: ASTM A 90
- ▶ Application: Secondary framing
- ▶ Surface Finish: Galvanized

Technical Properties for SUBGIRT:

- ▶ Sizes: 3/4 inches x 1 inches
- ▶ Material: ASTM A 653, G90 coating designation, structural quality, 18 Ga.
- ▶ Attachment: Self drilling, self tapping screws, bolts, nuts, and washers: Hot dip galvanized: ASTM A 90
- ▶ Application: Secondary framing
- ▶ Surface Finish: Galvanized

Environmental Considerations

Construction metals generally are readily recyclable at the end of their service life. Post industrial and post consumer recycled content varies.



5. INSTALLATION

Shop Drawings

Show layout, spacings, sizes, thicknesses, and types of cold-formed metal framing; fabrication; and fastening and anchorage details, including mechanical fasteners. Show reinforcing channels, opening framing, supplemental framing, strapping, bracing, bridging, splices, accessories, connection details, and attachment to adjoining work.

For cold-formed metal framing indicated to comply with design loads, include structural analysis data signed and sealed by the qualified professional engineer responsible for their preparation.

Handling and Storage

Handle and store product according to Metal Sales recommendations. Store materials above ground, under waterproof covering, protected from exposure to harmful weather conditions and at temperature and humidity conditions recommended by manufacturer. Ventilate to avoid condensation. Exercise caution in unloading and handling.

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. Metal Sales has the ability to ship

worldwide. Contact Metal Sales for information on local availability.

7. MAINTENANCE

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

8. 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.

9. FILING SYSTEMS

Additional product information is available from the manufacturer upon request.