

	QUALITY CONTROL MANUAL	Page 2.1
		Date 6/01

PRODUCT SPECIFICATIONS

GENERAL DESIGN:

Structure shall be designed in compliance with these CBC specifications and standards utilizing the pertinent provisions and recommendations of the American Institute of Steel Construction (AISC), Uniform Building Code (UBC), American Iron and Steel Institute (AISI), the Metal Building Manufacturers Association (MBMA) and their publications. Standard design loads: Live load, Wind load and Seismic per the Uniform Building Code, or as determined by the local building official.

Primary Framing:

Rigid frames: Shall be either tapered or constant depth "I" beam sections fabricated by automatic welding. Rigid frames shall be bolted together where required with A325-N bolts.

Post and Beam End Frames: Shall be fabricated of either cold formed sections or built-up sections, fabricated by welding, as dictated by design loads.

Anchorage: Shall be anchored to concrete foundations at the base of frame columns with anchor bolts cast in place. Column base reactions are indicated in the structural calculations for use in preparing foundation design by others.

Secondary Framing:

Purlins and girts shall be fabricated of cold formed steel 8 1/2" deep with a 2 3/4" wide stiffened flange. Minimum thickness is 16 gauge. Spacing and gauge of these members shall be as determined by design and shown on the plans. Purlins and girts shall be attached to the primary framing members with 1/2" diameter A-307 bolts.

Primary and Secondary Framing Paint:

All frames, purlins and girts not protected by galvanizing shall receive one (1) shop coat of rust inhibitive primer after being thoroughly cleaned of all loose mill and scale rust.

Primary and Secondary Framing Material Specifications:

Plates and bars used fabricating automatically continuous welded beams and columns. Materials conform to the requirements of ASTM A-529, A-572, A-607 and A-570 (Minimum Yield Point = 55 ksi).

Structural Pipes: Materials conform to the requirements of ASTM A-53, Grade B.

Structural Tubes: Materials conform to the requirements of ASTM A-500, Grade B.

Cold Formed Steel: Steel used to form purlins and girts shall be hot rolled steel. Unless otherwise specified, material shall be galvanized and conform to ASTM A-653, Grade 50 min 55 ksi yield. Materials to be painted shall conform to the requirements of ASTM A-570, Grade 55 or 50/55ksi minimum yield, or A-607, Grade 55 or 50/55ksi minimum yield

Roof and Wall Covering:

Roof and wall covering shall be formed from minimum 26 gauge zinc-aluminum coated steel conforming to the requirements of ASTM A-792 Grade 50 or 80, AZ50 or Galvanized coated steel conforming to the requirements of ASTM A-653 Grade 50 or 80, G90.

Roof and wall panels shall be fastened to framing members with #12 hex-head cadmium plated self-tapping, self-drilling screws.

Factory coated baked silicone-polyester colored roof and wall sheets will be provided optionally with colors to be selected from available colors.

High ribs of the panel shall be spaced at 12" on center. These ribs shall be 1 1/4" in depth.

Roof and wall panels shall be made to overlap one rib providing a net coverage of 3'-0".

	QUALITY CONTROL MANUAL	Page 2.2
		Date 6/01

Fiberglass Reinforced Translucent Panels:

Where translucent roof or sidewall panels are indicated, they shall have a profile matching the adjacent steel panels. Nominal weight of panels shall be 8 ounces per square foot and a nominal thickness of .060 inches.

Walk Doors:

Standard walk door shall be 3'-0" x 7'-0" x 1 3/4 inch thick single swing flush type steel construction. Doors shall be galvanized and bonderized for maximum rust protection.

Ridge Ventilators:

Where specified, ventilators shall be either continuous or circular ridge mounted. Circular vents may be either stationary or rotary type.

Gutter, Trim and Downspouts:

Gable, corner, door, window, eave, and gutter shall be 26 gauge zinc-aluminum coated steel. All gutter splices shall be field riveted and caulked to provide leakproof joints.

Ridge Cap:

The standard formed ridge cap shall be formed to match the roof slope and shall be of the same materials, color, and configuration as the roof panels.

Sealants:

Closure Strips: Closures shall be constructed of semi-rigid polyethylene foam.

Tape Sealant: Ribbon mastic 1" x 3/32" shall be provided for side and end laps of roof panels.

Gutter Sealant: Acrylic base polymer applied with open barrel caulking gun.

GLOSSARY OF TERMS

CBC utilizes the Glossary in the MBMA Low Rise Building Systems Manual for defining terms utilized in the metal building operations.

Copies of the Low Rise Building Systems Manual can be found in the Engineering Department.