

SECTION 13122 - METAL BUILDING SYSTEMS

A. SUMMARY

1. Preengineered metal building systems, complete with structural framing, roofing and siding, and assessorly elements as part of exterior envelope.
2. Structural Framing System:
 - a. Single-span, rigid frame.
 - b. Tapered beam.
 - c. Continuous beam (post and beam).
 - d. Single-span truss.
 - e. Continuous truss.
 - f. Lean to.
3. Siding:
 - a. Factory Assembled: [**Insulated**] [**Noninsulated**].
 - b. Field Assembled: [**Insulated**] [**Noninsulated**].
 - c. Fasteners: [**Exposed**] [**Concealed**].
4. Roofing: [**Lap seam**] [**Standing seam**].
5. Assessorly Elements:
 - a. Personnel doors and frames.
 - b. [**Aluminum**] [**Steel**] windows, with glass [**and screens**].
 - c. Translucent panels.
 - d. Overhead coiling doors.
 - e. Sectional overhead doors.
 - f. Sheet metal accessories.

B. QUALITY ASSURANCE

1. Manufacturer to engineer, design, fabricate, and erect system to withstand design loads.

C. WARRANTY

1. Roofing and Siding Panel Finish: 20 years.

D. MATERIALS

1. Structural Framing: Steel rigid frames, primary endwall framing, secondary framing, and wind bracing.

2. Wall Panels:
 - a. Material: [**Zinc-coated steel**] [**Aluminum-coated steel**] [**Aluminum**].
 - b. Finish: [**Baked enamel**] [**Fluoropolymer**].
3. Roof Panels:
 - a. Material: [**Zinc-coated steel**] [**Aluminum-coated steel**] [**Aluminum**].
 - b. Finish: [**Baked enamel**] [**Fluoropolymer**].
4. Thermal Insulation: Glass-fiber blanket, with vapor barrier.
5. Personnel Doors: Standard hollow-metal [**steel**] [**galvanized steel**] doors and frames, complete with hardware and weather stripping.
6. Overhead Coiling Doors:
 - a. Door Curtain Material: [**Steel**] [**Aluminum**].
 - b. Operation: [**Manual push-up**] [**Manual chain hoist**] [**Manual crank hoist**] [**Electric**].
7. Sectional Overhead Doors:
 - a. Section Material: [**Steel**] [**Wood, panel type**] [**Wood, flush type**] [**Aluminum**] [**Translucent fiberglass**].
 - b. Operation: [**Manual, with lift handles and pull rope**] [**Direct-drive chain hoist**] [**Reduction-drive crank hoist**] [**Electric**].
8. Steel Windows:
 - a. Type (Operation): [**Fixed units (without vents)**] [**Projected units**] [**Casement units**] [**Double/single-hung units**].
 - b. Classification (Grade): [**Standard Intermediate**] [**Commercial Projected**] [**Semi-Intermediate**].
9. Aluminum Windows:
 - a. Classification (Grade): [**Commercial**] [**Heavy commercial**].
 - b. Type (Operation): [**Double-hung units**] [**Horizontal-sliding units**].
10. Sheet Metal Accessories: [**Gutters and downspouts**] [**Roof ventilators**] [**Continuous ridge ventilator**] [**Wall louvers**].

END OF SECTION 13122