

DIVISION 13 - SPECIAL CONSTRUCTION

A. PRE-ENGINEERED METAL BUILDINGS

1. Pre-engineered Metal Buildings shall be rigid frame high bay system with 4:12 roof pitch and 14'-0" eave height similar to Chief Industries, Inc., rigid frame high profile system. The basic metal building package shall be equal to Chief Building Systems, Inc., Standard Specifications 10-28-91-A.
2. The installed building system shall be a complete package and ready for "turnkey" occupancy at the point of substantial completion. It shall include site work, concrete foundations, loading docks, driveways and floor slabs, mezzanine, all primary and secondary structural framing members, connection bolts, canopies, roof extensions, roofing, siding, insulation, coverings, windows, doors, flashings, skylights, trim, fasteners, closures, sealer, gutters, downspouts, splash blocks, louvers, ventilators, heating, mechanical ventilation, air conditioning, electrical service and complete electrical package, complete plumbing package, fire protection, security system, interior partitions, interior doors and windows, interior finishes, toilet accessories, equipment and other items indicated in the schematic drawings, summary specifications and as required for a complete and functional building. Normally the metal building manufacturer provides only a portion of this package. Therefore, it is the responsibility of the general contractor to provide and install a complete and functional system.
3. The system shall be designed by the builder and metal building manufacturer or it's consultants and installed in accordance with that design to be structurally sound and operable in accordance with the existing soil conditions, the El Paso County Regional Department requirements, wind design in accordance with UL90, the 1991 edition of the Uniform Building Code, Uniform Plumbing Code, National Electrical Code, and the Uniform Mechanical Code. Structural design shall include loads imposed by two overhead cranes indicated on the schematic drawings.

B. WOOD STORAGE SHEDS

1. Site built or manufactured wood storage sheds shall comply with the following:
 - a. Floor System:
 - i. Skids: Two 4' x 6" VAT treated skids attached to floor joists with steel TECO clips at 16" on center
 - ii. Spreaders: 2x4 Hem Fir #2 both ends
 - iii. Nailers: 2x4 Hem Fir #2 both ends
 - iv. Floor Joists: 2x6 Hem Fir #2 @ 16" on centers (up to 12' wide)
 - v. Floor Joists: 2x8 Hem Fir #2 @ 16" on centers (over 12' wide)
 - vi. Floor Decking: 3/4" T&G CDX plywood perpendicular to the joists
 - vii. Floor Loading: 50 psf min.
 - b. Wall System:
 - i. Framing: 2x4 Hem Fir studs at 24" on centers
 - ii. Plates: single top & bottom plates
 - iii. Siding: 7/16" Masonite 8' center match hardboard, factory painted
 - iv. Wall Height: 8'-0" wall and ceiling height
 - v. Wind Loading: 20 psf, exposure C = 80 mph winds
 - vi. Trim: 1x4 & 1x4 wood outside corners, skirts and facias, painted

c. Roof System:

- i. Style: Gable, minimum 1/12 pitch
- ii. Trusses: 2x8, 2x10, or 2x12 (as required to meet loading criteria) solid wood trusses @ 24" on center attached by steel TECO clips @ 24" on center.
- iii. Ridge Beam: 2x6 Hem Fir #2 Beam Whaler
- iv. Roof Decking: 1/2" CDX plywood nailed and clipped
- v. Roofing: 29 gauge structural steel roofing with baked enamel finish installed with ridges running perpendicular to the length/longest dimension of the building, with minimum 1 1/4" galvanized roofing barb nails and neoprene washers or premium, heavyweight, laminated, asphalt saturated, fiberglass shingles on new underlayment.
- vi. Felt: 30# asphalt felt applied over sheathing
- vii. Snow Load: Minimum live load 60 psf

d. Door System:

- i. Garage Door: 8'-0" x 7'-0" sectional overhead steel garage door with manual spring operator and key lock.
- ii. Swinging Door: 4'-0" x 7'-0" wood shop door with heavy duty hasp and 1 1/2 pair US 4-1/2" x 4-1/2" NRP hinges

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