

Scope of Work

- The work covered by this Item shall consist of furnishing all concrete reinforcement requirements in accordance with Plan and/or standard detail and as herein specified

Material Requirements:

- Use Portland cement which conforms to the requirements of ASTM C-150 Type for normal Portland cement.
- Use fine aggregates which shall be free from injurious amount of clay loam and deleterious materials and shall conform to ASTM C-33 or C-330.
- Concrete hollow blocks, 4", shall be standard manufacture, machine vibrated, and shall have fine and even texture, and well defined edges. Mortar, filler and plastering shall be Class "A" mixture.
- Deformed steel bars shall conform to ASTM A-305. It shall be clean and free from loose, rust, scales and any coatings that will reduce bond.
- #16 tie wires shall be used for reinforcing bars connections.

Construction Requirements:

- Provide CHB wall with 10 mm dia. deformed round bars at 0.60 m on centers both ways. Verify actual location.
- All cells shall be solidly filled with grout.
- Concrete mixture shall be class "A".
- Provide the plastering at 16 mm thick using class "A" mixture.
- Follow plan for details.

Division 7 – Thermal Moisture Protection**Section 07400 Roofing****Scope of Works**

- This Item shall consist of furnishing all materials and equipment and perform labor required to complete fitting installation of roof and application of supplementary materials to make the roof watertight and leak proof.

Materials Requirements:

- Roof Panels: Ga. #24 (60 mm) thk corrugated roof sheets
- Roof trusses: Top & Bottom Chord-2L 1 1/2" (38 mm) x 1 1/2" (38mm) x 1/4" (6mm) thk, ASTM A36.
- Plates: Gusset & Base - 1/4" thk x 250mm x 250mm
- Web Members : 1L 1 1/2" (38 mm) x 1 1/2" (38mm) x 1/4" (6mm)thk
- Purlins : Ga. # 14 C 2" (50 mm) x 4" (100mm)
- Sagrod: 12 mm Ø
- Insulations: 7.5 mm thk x 1.00 m x 50.00 m double bubble double foil insulation
- Low Carbon Steel externally and internally threaded standard fasteners.
- Fascia Board : 9mm thk 300mm (H) Fiber cement board, painted

Notations

- Steel Connections shall be full weld. Welding electrodes shall be E60 series of ASTM Specifications A233.
- Provide all the necessary accessories for proper installation.
- Verify plans for necessary details.
- All structural steel frames shall be applied with Acrylic epoxy paint
- All steel section shall be primed and painted two coat with final coating colors as to be specified by CPDMO and End-users.

Execution

- Fasten the corrugated roof sheets to steel purlins by means of screws. Screws are attached to the base connecting profiles to the purlins.

Division 8 – Doors and Windows

Section 08000 Doors and Windows / Glass Structure

Doors

Scope of Work

- The work covered by this Item shall consist of furnishing all fabricated door and jambs, equipped with fixing accessories and locking devices in accordance with Plan and/or shop drawings and as herein specified.

Material Requirements:

(D-1) 1.50 m (W) x 2.10 m (H)

Double Panel Double Action (ED Section) Swing Doors

- 50 mm x 100 mm powdered coated white aluminum frame tube
- 6 mm thick tempered clear glass w/ 3M frosted sticker and logo
- 2 sets 25 mm Ø polished stainless steel full handles per panel (front and rear)
- 2 sets pivot hinges
- Top and bottom door lock integral to door, provide keyed lock mechanism

(D-2) 1.50 m (W) x 2.10 m (H)

Double Panel Single Action (ED Section) Swing Steel Doors

- 12 mm thick tempered clear glass with
- 50 mm thick Double panel Gauge #18 Galvanized Iron (G.I)
- 50 mm x 100 mm Gauge # 16 Galvanized Iron (G.I) jamb and header, single rabbet
- 6 mm thick tempered clear glass wired view
- 8 pairs 5 knuckle, ball bearing, full mortise standard weight stainless steel hinge w/ stainless steel pin
- Rim exit device on one panel w/ surface vertical rod on the other panel, fire rated use w/ entrance lock lever lock set on exterior side of door
- 2 sets heavy duty cast iron cylinder surface mounted door closer aluminum finish, fire rated
- Fire rating 1.5 hours
- 30-35 Sound Transmission Class (STC)
- Epoxy primer gray, Duco paint finish

(D-3) 1.50 m (W) x 2.10 m (H)

Double Panel Single Action (ED Section) Swing Steel Doors

- 12 mm thick tempered clear glass with
- 50 mm thick Double panel Gauge #18 Galvanized Iron (G.I)
- 50 mm x 100 mm Gauge # 16 Galvanized Iron (G.I) jamb and header, single rabbet
- 6 mm thick tempered clear glass wired view
- 8 pairs 5 knuckle, ball bearing, full mortise standard weight stainless steel hinge w/ stainless steel pin
- 2 sets heavy duty cast iron cylinder surface mounted door closer aluminum finish, fire rated
- Fire rating 1.5 hours
- 30-35 Sound Transmission Class (STC)
- Epoxy primer gray, Duco paint finish

(D-4) 0.90 m (W) x 2.10 m (H)

Single Panel Single Action (ED Section) Swing Doors

- 50 mm x 100 mm powdered coated white aluminum frame tube
- 6 mm thk tempered clear glass w/ 3M frosted sticker and logo
- 1 set entrance lock lever type
- 1 set pivot hinge
- Top and bottom door lock integral to door, provide keyed lock mechanism

(D-5) 0.70 m (W) x 2.10 m (H)

Single Panel Single Action Swing Doors

- 44 mm thk flush hollow core panel w/ 6mm thk marine plywood on both sides and bottom wood
- 50 mm x 100 mm Gauge # 16 Galvanized Iron (G.I) jamb and header, single rabbet
- 4 pairs 4" x 3 1/2" full mortise standard weight stainless steel hinge w/ stainless steel pin
- 1 set entrance lock lever type
- 1 set heavy duty cast iron cylinder surface mounted door closer, aluminum finish
- Duco paint finish

(D-6) 0.90 m (W) x 2.10 m (H)

Single Panel Single Action Swing Doors

- 44 mm thk flush hollow core panel w/ 6mm thk marine plywood on both sides and bottom wood
- 50 mm x 100 mm Gauge # 16 Galvanized Iron (G.I) jamb and header, single rabbet,
- 4 pairs 4" x 3 1/2" full mortise standard weight stainless steel hinge w/ stainless steel pin
- 1 set entrance lock lever type
- 1 set entrance lock lever type mounted door closer, aluminum finish
- Duco paint finish

(D-7) 0.90 m (W) x 2.10 m (H)

Single Panel Single Action Swing Doors

- 50 mm thk Double panel Gauge #18 Galvanized Iron (G.I)
- 50 mm x 100 mm Gauge # 16 Galvanized Iron (G.I) jamb and header, single rabbet
- 6 mm thk tempered clear glass wired view
- 4 pairs 5 knuckle, ball bearing, full mortise standard weight stainless steel hinge w/ stainless steel pin
- 1 set entrance lock lever type
- 1 set heavy duty cast iron cylinder surface mounted door closer, aluminum finish
- Fire rating 1.5 hours
- 30-35 Sound Transmission Class (STC)
- Epoxy primer gray, Duco paint finish

(D-8) 0.90 m (W) x 2.10 m (H)

Single Panel Single Action Swing Doors

- 50 mm thk Double panel Gauge #18 Galvanized Iron (G.I)
- 50 mm x 100 mm Gauge # 16 Galvanized Iron (G.I) jamb and header, single rabbet
- 4 pairs 5 knuckle, ball bearing, full mortise standard weight stainless steel hinge w/ stainless steel pin
- Rim exit device on panel / surface vertical rod on the panel, fire rated use w/ entrance lock lever lock set on exterior side of door

- 1 set heavy duty cast iron cylinder surface mounted door closer, aluminum finish
- Fire rating 1.5 hours
- 30-35 Sound Transmission Class (STC)
- Epoxy primer gray, Duco paint finish

(D-9) 0.70 m (W) x 2.10 m (H)

Single Panel Single Action Swing Doors

- 12 mm thk phenolic board panel
- Nylon knob w/ lockset w/ occupancy indicator
- Nylon panel support w/ base, steel inlay protected against corrosion
- Nylon , w/ steel inlay protected against corrosion

(D-10) 2.40 m (W) x 2.10 m (H)

Three Panel Sliding (SD Section) Doors

- 50 mm x 100 mm powdered coated white aluminum frame tube
- 6 mm thk tempered clear glass w/ 3M frosted sticker
- Heavy duty double roller set w/ top and bottom rail
- Flush handle w/ keyed lock mechanism

(D-11) 1.40 m (W) x 2.10 m (H)

Two Panel Sliding (SD Section) Doors

- 50 mm x 100 mm powdered coated white aluminum frame tube
- 6 mm thk tempered clear glass w/ 3M frosted sticker
- Heavy duty double roller set w/ top and bottom rail
- Flush handle w/ keyed lock mechanism

(D-12) 1.50 m (W) x 2.10 m (H)

Double Panel Single Action Swing Doors

- 50 mm thk Full Louvered 44 mm blade, Gauge #18 Galvanized Iron (G.I)
- 50 mm x 100 mm Gauge # 16 Galvanized Iron (G.I) jamb and header, single rabbet
- 8 pairs 5 knuckle, ball bearing, full mortise standard weight stainless steel hinge w/ stainless steel pin
- 2 sets heavy duty cast iron cylinder surface mounted door closer aluminum finish, fire rated
- 1 set entrance lock lever type
- 1 set entrance mortise type flush bolt (top and bottom)
- Epoxy primer gray, Duco paint finish

Windows / Glass Structure

Scope of Work

- The work covered by this Item shall consists of furnishing all aluminum powdered coated fixed /sliding /awning /casement type glass windows, materials, labor, tools and equipment required in undertaking the proper installation as shown on the Plans and in accordance with this Specifications.

Material Requirement

(W-1) 2.70 m (W) x 1.00 m (H)

Fixed/Sliding Type Window

- 6 mm thk tempered clear glass w/ 8 mil security film
- 50 mm x 100 mm powdered coated white aluminum frame tube
- Heavy duty aluminum window w/ flush handle & lock

(W-2) 2.70 m (W) x 0.90 m (H)

Fixed Glass Type Window

- 6 mm thk tempered clear glass w/ 8 mil security film
- 50 mm x 100 mm powdered coated white aluminum frame tube
-

(W-3) 5.80 m (W) x 0.90 m (H)

Fixed Glass Type Window

- 6 mm thk tempered clear glass w/ 8 mil security film
- 50 mm x 100 mm powdered coated white aluminum frame tube

(W-4) 0.80 m (W) x 2.00 m (H)

Fixed/Casement Type Window

- 6 mm thk tempered clear glass w/ 8 mil security film
- 50 mm x 100 mm powdered coated white aluminum frame tube
- Heavy duty aluminum window w/ cam handle

(W-5) 1.70 m (W) x 0.90 m (H)

Fixed Glass Type Window

- 6 mm thk tempered clear glass w/ 8 mil security film
- 50 mm x 100 mm powdered coated white aluminum frame tube

(W-6) 1.35 m (W) x 1.00 m (H)

Sliding Type Window

- 6 mm thk tempered clear glass w/ 8 mil security film
- 50 mm x 100 mm powdered coated white aluminum frame tube
- Heavy duty aluminum window w/ flush handle & lock

(W-7) 1.35 m (W) x 1.20 m (H)

Fixed Glass Type Window

- 6 mm thk tempered clear glass w/ 8 mil security film
- 50 mm x 100 mm powdered coated white aluminum frame tube

(W-8) 0.60 m (W) x 0.40 m (H)

Awning Type Window

- 6 mm thk tempered clear glass w/ 8 mil security /frosted film
- 50 mm x 100 mm powdered coated white aluminum frame tube
- Heavy duty aluminum window w/ cam handle

Division 9 – Finishes

Section 09500 Ceiling

Scope of Work

- The work covered by this Item shall consists of furnishing all ceiling finishes, equipped with fixing accessories in accordance with Plan and/or shop drawings and as herein specified.

Material Requirement

- **(CF-01) 600mm x 600mm x 4.5mm thk fiber cement board on T-runner, painted finished**
 - on metal furring ,puttied, sanded and ready to receive paint primer coating
 - Surface preparation for 4.50 mm thk. Fiber cement board ceiling panel on T-runner
 - Painting of new ceiling in odor-less antibacterial latex paint, Semi-gloss finished
- **(CF-02) 200mm Drop ceiling for pinlight in 4.5mm thk fiber cement board on metal furring, painted finished**
 - on metal furring ,puttied, sanded and ready to receive paint primer coating