

lever type stainless handle set, locking devices, as well as fixing accessories such as stainless door hinges, and the like.

- Use Kiln Dried Lauan wood or equivalent for panel doors and door jambs.
 - Use 3/8" thk Clear Glass for transom.
 - Use Stainless Steel Amerilock cylindrical door knob and heavy duty barrel lock.
 - Use 1/2" thk. Marine Plywood on both faces of hollow core flush door
4. All door sizes and design shall be verified prior to fabrication and installation.
 5. Hardware for fixing and locking devices shall be closely matched and adaptable to the type and method of opening.
 6. For all assembly and fabrication works the cut ends shall be true and accurately jointed, free of burrs and rough edges. Cut-out recesses, mortising, grinding operation for hardware shall be accurately made and properly reinforced when necessary.
 7. This scope includes provision of all doors as listed below:

XIV.A *Panel Doors*

GENERAL SPECIFICATIONS	DOOR TAG	NO. OF SET	DIMENSIONS / SPECIFIC DETAILS
Panel Type Door Kiln Dried Lauan Panel Door on 50mm x 150mm Kiln Dried Lauan Wood Jamb; with SS Amerilock Cylindrical Door Knob; HD Barrel Lock and complete hardware accessories (Note: Use Kiln Dried Lauan Wood or equivalent)	D1	6 sets	900mmW x 2100mmH + 350mmH With 3/8" thk. Fixed Clear Glass Transom

XIV.B *Hollow Core Flush Type Door*

GENERAL SPECIFICATIONS	DOOR TAG	NO. OF SET	DIMENSIONS / SPECIFIC DETAILS
Hollow Core Flush Type Door Hollow Core Flush Type Door in 50x150mm thk. Kiln Dried Lauan wooden Jamb with 1/2" thk. Marine Plywood on both faces with Stainless Steel Amerilock Cylindrical Door Knob; and complete hardware accessories (Note: Use Kiln Dried Lauan Wood or equivalent)	D2	4 sets	800mmW x 2100mmH

XV. Windows

GP

This Item shall consist of furnishing all aluminum glass window and steel casement window materials, labor, tools and equipment required in undertaking the proper installation as shown on the Plans and in accordance with this Specification.

1. This item shall consist of all fabricated Powder Coated Aluminum & Steel Casement Windows fully equipped with fixing accessories and locking devices as shown on Plans and per this Specification.
2. The Contractor shall verify the correct window sizes and specifications to the Project Monitoring Committee before fabrication and installation.
3. Screws, nuts, washers, bolts, rivets and other miscellaneous fastening devices shall be made of non-corrosive materials such as aluminum, stainless steel, etc.
4. Hardware for fixing and locking devices shall be closely matched and adaptable to the type and method of opening.
5. For all assembly and fabrication works the cut ends shall be true and accurately jointed, free of burrs and rough edges. Cut-out recesses, mortising, grinding operation for hardware shall be accurately made and properly reinforced when necessary.
6. Steel Casement windows need to be coated with 2 coatings of Red Oxide Primer prior to installation.
7. This scope includes provision of all windows as listed below:

XV.A *Aluminum Windows*

GENERAL SPECIFICATIONS	DOOR TAG	NO. OF SET	DIMENSIONS / SPECIFIC DETAILS
<p>Aluminum Window</p> <p>6mm thk. Glass Panel on 50mm x 100mm x 1.50mm thk. Powder Coated Aluminum Window frame with complete locking devices and accessories.</p>	W1	6 sets	1700mmW x 1800mmH

XV.B *Steel Casement Windows*

GENERAL SPECIFICATIONS	DOOR TAG	NO. OF SET	DIMENSIONS / SPECIFIC DETAILS
<p>Steel Casement Window</p> <p>6mm thk. Glass Panel on Heavy duty Steel Casement Window Frame with complete locking devices and accessories.</p>	W2	4 sets	600mmW x 600mmH

XVI. Cement Plaster Finish

This Item shall consist of furnishing all cement plaster materials, labor, tools and equipment required in undertaking cement plaster finish as shown on the Plans and in accordance with this Specification.

1. Use Portland cement that conform to the requirements as defined in Item 700, Hydraulic Cement.
2. Fine aggregates shall be clean, washed, and free from dirt, clay, organic matter or other deleterious substances.
3. Finish coat shall be pure Portland Cement properly graded conforming to the requirements of Item 700, Hydraulic Cement and mixed with water to approved consistency and plasticity.
4. Surfaces to receive cement plaster shall be cleaned of all projections, dust, loose particles, grease and bond breakers. Before any application is commenced all surfaces that are to be plastered shall be wetted thoroughly with clean water to produce a uniformly moist condition.
5. Mortar mix shall be applied with sufficient pressure starting from the lower portion of the surface to fill the grooved and to prevent air pockets in the reinforced concrete/masonry work and avoid mortar mix drooping. It shall be lightly broomed/ or scratch before surface had properly set and allowed to cure.
6. Finish coat shall not be applied until after the initial coat has seasoned for seven days and corrective measures had been done by the Contractor on surfaces that are defective. Just before the application of the finish coat, the initial coat surface shall be evenly moistened with potable water. Finish coat shall be floated first to a true and even surface, then troweled in a manner that will force the mixture to penetrate into the brown coat. Surfaces applied with finish coat shall then be smooth with paper in a circular motion to remove trowel marks, checks and blemishes. All cement plaster finish shall be 16 mm thick minimum on vertical concrete and/or masonry walls.
7. Cement plaster shall not be applied directly to concrete or masonry surface that had been coated with bituminous compound and surfaces that had been painted and previously plastered.
8. Cement plaster finish shall be true to details and plumbed. Finish surface shall have no visible junction marks where one (1) day's work adjoins the other.
9. The contractor must provide competent person to execute the plastering works.

XVII. Cement Floor Topping

This Item shall consist of furnishing all materials, labor, tools and equipment in undertaking cement floor finishing was shown on the Plans and in accordance with this Specification.

1. Use Portland cement conforming to the DPWH requirement for Item 700, Hydraulic Cement.
2. Fine aggregates shall be clean, washed, and free from dirt, clay, organic matter or other deleterious substances.
3. Concrete topping materials shall be measured accurately. Mortar topping shall be Class A, one (1) part Portland cement and two (2) parts fine aggregate by loose volume.
4. Surface to receive mortar concrete topping shall be cleaned of all projections, dust, loose particles and other foreign matters. Finish elevation shall be established over the areas indicated on the Plans.
5. Before any mortar concrete topping is applied, the prepared concrete base surface shall first be wetted and grouted with Portland cement.
 - a. Mortar topping shall have a minimum thickness of 25mm to be spread over the prepared concrete base and shall be float finished using wood hand trowel. Batches of mortar toppings shall be emplaced within one hour of mixing thereof.
 - b. As soon as the water sheen has disappeared the surface shall be lightly scratched with a stiff bristle broom
 - c. The finish topping mixture shall be spread over the lightly scratched surface before final set taken place and hand troweled to produce a smooth surface.
 - d. The finished surface shall be free of trowel marks, have uniform texture and true to a plane within an allowable tolerance of 3 mm in 3.0 meters.

6. Cement floor finished surface shall be covered with appropriate covering to avoid injurious action by sun, rain, flowing water and mechanical injury.
7. Cement floor shall be finished level and true to finish elevation as shown on the Plans.
8. Finish topping shall have no visible junction marks where one (1) day's work adjoins the other.
9. Finish topping shall be properly graded to drain rainwater. Provide a minimum pitch of 1 on 100 satisfactorily drain rainwater freely into the drainage lines, gutters and downspouts.
10. All cement floor finish shall be measured in square meters or part thereof for work actually completed and accepted.

XVIII. Tile Works

This Item shall consist of furnishing and installing tiles, adhesive materials, tools and equipment including labor required in undertaking the proper installation of floor tiles at comfort rooms floors as shown on the Plans and in accordance with this Specification.

1. Trims are manufactured to match wall tile color, texture and to coordinate with it in dimension.
2. Accessories like some soap holders and shall be made wall mounted type with colors to reconcile with the color of the adjacent wall tiles.
3. Tile work shall not be started until roughing-ins for plumbing, electrical and other trades have been completed and tested. The work of all other trades shall be protected from damage.
4. Surface to receive tile must be level, true to elevation, dry, free from dirt, oil and other ointments. Allow at least seven days curing of scratch coat and setting bed.
5. Installation work shall not be allowed to proceed until unsatisfactory conditions are corrected.
6. Thoroughly dampen surfaces of masonry or concrete walls before scratch coat and/or tile adhesive is applied.
7. On masonry or concrete surface first apply a thin coat with pressure, then bring it out sufficiently to compensate for the major irregularities of the surface to a thickness not less than 10 mm. at any point.
8. Evenly rate scratch coat to provide good mechanical key before the mortar/ tile adhesive mix has fully hardened.
9. Use tile adhesive as prescribed by the tile manufacturer. No voids are allowed between tile adhesive and tiles before installation.
10. The tile setting shall be properly leveled.
11. Tile adhesive shall be applied to the surface with a notched trowel to a thickness of approximately 3-4 mm.
12. Tiles shall be pressed into the adhesive, tapped firmly into position, and cleaned as soon as the bedding is complete.
13. Grouting mortar shall be applied over the tile by float or squeegee stroked diagonally across the joints. Remove excess mortar with a wet squeegee stroked diagonally or in a circular motion after 12-15 minutes. Follow with a barely damp or dry sponge to remove the remaining haze while smoothing all grouted joints.
14. Finish tiled flooring shall be properly graded to drain rainwater. Provide a minimum pitch of 1 on 100 satisfactorily drain rainwater freely into the floor drain, drainage lines, gutters and downspouts.
15. Tile setting finish must be observed in proper setting, fit, and stable. Any improper setting shall be reworked/re-installed by the Contractor.
16. Clean tile surfaces thoroughly as possible upon completion of grouting. Remove all grout haze, observing tile manufacturers recommendations as to use of acid or chemical cleaners. Rinse tile thoroughly with clean water before and after using chemical cleaners. Polish surface of tile with soft cloth.