

- Use 1.50mm thk. Powdered Coated Aluminum frames (medium gray) as per schedule of doors.
4. Provide glass panels conforming with the recommended design, thickness, type, and color as shown in the detail and schedule of doors.
 5. All doors shall be provided with corresponding heavy-duty lever type stainless handle set, locking devices, as well as fixing accessories such as stainless door hinges, and the like
 6. All door sizes and design shall be verified prior to fabrication and installation.
 7. Frame and panel members shall be fabricated from extruded aluminum sections true to details with clean, straight, sharply defined profiles and free from defects impairing strength or durability.
 8. Screws, nuts, washers, bolts, rivets and other miscellaneous fastening devices shall be made of non-corrosive materials such as aluminum, stainless steel, etc.
 9. Hardware for fixing and locking devices shall be closely matched and adaptable to the type and method of opening.
 10. 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.
 11. This scope includes provision of all doors as listed below:

XVII.A. Powder Coater Aluminum Glass Door (Sliding/ Swing Type)

GENERAL SPECIFICATIONS	DOOR TAG	NO. OF SET	DIMENSIONS / SPECIFIC DETAILS
<p>Double Action Swing-Double Glass Door Frame: 1.5mm thk. Powder Coated Aluminum Frame and Door Jamb (Color: Medium Gray); With complete accessories including heavy duty handle set and locking devices with Fixed Glass Panel and Fixed Clear Glass Transom</p>	D1	2 sets	1800mmW x 2100mmH + 400mmH With 3/8" thk. Fixed Clear Glass Transom Glass Door: 3/8" Thk. Tempered Clear Glass Panel, with frosted glass design per plan
<p>Sliding Type Glass Door Frame: 1.5mm thk. Powder Coated Aluminum Frame and Door Jamb (Color: Medium Gray); With complete accessories including heavy duty handle set and locking devices.</p>	D5	1 set	2400mW x 2100mH Glass Door: 3/8" Thk. Tempered Clear Glass Panel

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XVII.B. Panel Door

GENERAL SPECIFICATIONS	DOOR TAG	NO. OF SET	DIMENSIONS / SPECIFIC DETAILS
Panel Type Vision Door With 50mm x 150mm Kiln Dried Lauan (or equivalent) Wood Jamb; With complete Heavy-Duty SS Lever Type Door Knob, Barrel Lock, and Heavy-Duty Hinges.	D2	3 sets	900mmW x 2100mmH With 3/8" Thk. Tempered Clear Glass Panel
Panel Type Door With 50mm x 150mm Kiln Dried Lauan (or equivalent) Wood Jamb; With complete Heavy-Duty SS Lever Type Door Knob, Barrel Lock, and Heavy-Duty Hinges.	D4	3 sets	1000mmW x 2100mmH

XVII.C. Hollow Core Flush Type Door

GENERAL SPECIFICATIONS	DOOR TAG	NO. OF SET	DIMENSIONS / SPECIFIC DETAILS
Hollow Core Flush Type Door With 50mm x 150mm Kiln Dried Lauan (or equivalent) Wood Jamb; With 1/2" thk Marine Plywood on both faces; With complete Heavy-Duty SS Lever Type Door Knob, Barrel Lock, and Heavy-Duty Hinges.	D3	2 sets	800mmW x 2100mmH

XVIII. Windows

This Item shall consist of furnishing all aluminum glass window, window grills and typhoon guard support as well as window screen 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 Sliding/Awning Windows fully equipped with fixing accessories and locking devices as shown on Plans and per this Specification.

2. This scope of work includes provision of Doors and door frames conforming to the sizes, dimensions and designs as shown and specified in the schedule of doors or as per the bill of materials.
3. The Contractor shall verify the correct window sizes and specifications to the Project Monitoring Committee before fabrication and installation.
4. Use ¼" thick for tinted (Brown) glass panel (tempered and fireproof) for all sliding/awning windows.
5. Screws, nuts, washers, bolts, rivets and other miscellaneous fastening devices shall be made of non-corrosive materials such as aluminum, stainless steel, etc.
6. Hardware for fixing and locking devices shall be closely matched and adaptable to the type and method of opening.
7. 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.
8. This scope includes provision of all doors as listed below:

XVIII.A. Powder Coated Aluminum Glass Windows (Sliding/ Awning/ Fixed Type)

- a. This scope of work includes fabrication and installation of Windows including all items required to be fabricated like window jambs, aluminum frames and provision of complete accessories as shown and specified in the schedule of Windows.
- b. Frame and panel members shall be fabricated from extruded aluminum sections true to details with clean, straight, sharply defined profiles and free from defects impairing strength or durability.
- c. This scope of work also includes provision of Windows and frames conforming to the sizes, dimensions and designs as shown and specified in the details and schedule of Windows.
- d. Contractor to ensure that all materials to be used shall be in accordance with the required specifications as stated on this scope:
 - Use 1.5mm thk. powder coated aluminum frames (medium gray) for all windows.
 - Use 6mm thk. Tinted Tempered Glass (Brown) for all windows with glass panels per design.
- e. All windows shall be provided with corresponding heavy-duty locking devices, as well as fixing accessories.
- f. All window sizes and design shall be verified prior to fabrication and installation.
- g. This scope includes provision of all doors as listed below:

GENERAL SPECIFICATIONS	WINDOW TAG	NO. OF SET	TECHNICAL DIMENSIONS
Powder Coated Aluminum Glass Windows (Sliding/ Awning/ Fixed Type) on 1.5mm thk. Medium Gray Powdered Coated Aluminum Frame with 6mm thk. Tinted Tempered Glass (Brown) sliding window complete with accessories	W1	1 set	2400mmW x 1650mmH
	W2	1 set	1200mmW x 1650mmH
	W3	1 set	1800mmW x 1650mmH
	W4	1 set	1800mmW x 1650mmH
	W5	1 set	2400mmW x 1650mmH
	W6	1 set	1800mmW x 1650mmH
	W7	1 set	1400mmW x 1650mmH
	W8	1 set	1400mmW x 1650mmH
	W9	1 set	2400mmW x 1650mmH
	W10	1 set	2400mmW x 1650mmH
	W11	1 set	600mmW x 600mmH
	W12	1 set	600mmW x 600mmH
	W13	1 set	1800mmW x 1650mmH
	W14	1 set	1600mmW x 500mmH
	W15	1 set	1600mmW x 500mmH

XVIII.B. Window Grills and Typhon Guard Support

This Item shall consist of furnishing all materials, labor, tools and equipment required in undertaking all metal works which includes window grills as shown on the Plans and in accordance with this Specification.

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- a. All materials to be incorporated in the metal works shall be of good quality. Before incorporation in work, all materials shall have been inspected/accepted by the Project Monitoring Committee.
- b. The steel bars and other metallic structural materials shall be coated with red oxide primer (two coats) before installation or after welding works.
- c. Workmanship and finish shall be per the best general practice. Portions of the work exposed to view shall be finished neatly. Shearing, flame-cutting, and chipping shall be done carefully and accurately.
- d. No welding works shall be done on areas coated with paint.
- e. Shop drawings shall be submitted by the Contractor for TPC approval before fabrication and installation.
- f. Submission of shop drawings for evaluation/approval shall be submitted seven (7) days before fabrication and installation.
- g. All materials for metal works to be used shall be brand new. Usage of scrap and tarnishing metals is strictly prohibited. The Contractor shall promptly remove and replace any scrap, old, and used materials installed on site.
- h. In case of variations or changes in the design per actual site condition, shop drawings complete with essential dimensions and details of construction, as may be required by the Engineer in connection with the window grill design, shall be submitted for approval before proceeding with the work.
- i. Provide and install the following as specified (see details):

GENERAL SPECIFICATIONS	GRILLS TAG	NO. OF SET	TECHNICAL DIMENSIONS
12mm Square Bars Window Grills	WG1	4 sets	2400mmW x 1750mmH
	WG2	4 sets	1800mmW x 1750mmH
	WG3	2 sets	1400mmW x 1750mmH
	WG4	1 set	1200mmW x 1750mmH

XVIII.C. Window Screens

The work includes the fabrication and installation of windows screens including all items required to be fabricated. Window screens shall conform to the sizes, designs and kind of materials shown in the details of window screens.

GENERAL SPECIFICATIONS	SCREEN TAG	NO. OF SET	TECHNICAL DIMENSIONS
Aluminum Framed Window Screen	WS1	2 sets	1400mmW x 1200mmH
	WS2	4 sets	1800mmW x 1200mmH
	WS3	4 sets	2400mmW x 1200mmH
	WS4	1 set	1200mmW x 1200mmH

XIX. Ceiling Works

The work under this Item shall consist of furnishing all required materials, tools, equipment and labor and performing all operations necessary for the satisfactory completion of all ceiling works in strict accord with applicable drawings, details and these Specifications.

1. All materials to be incorporated in this item of work shall be brand new and of good quality. Before incorporation in work, all materials shall have been inspected/accepted by the Project Monitoring Committee or the agency's authorized representative.
2. All materials shall be protected from dampness during and after delivery at the site. Materials shall be delivered well in advance of actual need and in adequate quantity to preclude delay in the work. Ceiling boards shall be piled in orderly stack at least 150 mm above ground and at sheltered place where it will be of least obstruction to the work.
3. Ceiling boards shall be cut and laid precisely to ensure that there are no gaps and/ or overlap between adjacent boards. Slits between adjacent boards shall not be greater than 4mm. Any visible slits greater than the acceptable and/or overlapping boards shall be removed and replaced by the contractor.
4. Nails, screws, rivets, suspension hangers and other fasteners shall be provided and used at specified spacing as per plan and whenever necessary for ceiling systems to prevent ceiling

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