

BOQ SPECIFICATIONS

VERTICAL BLINDS

Vertical Blinds made of glass fibre fabrics in width 5'' (or 4''). Minimum overlapping of 3/4'' in fabric. Top aluminium anodized rail of 1.4 mm thickness. 2 inch wide channel with front lamination of same fabric. Runners having stainless steel hooks with built-in shock spring and self aligning slip clutch. End control box composed of double gear system. Stainless steel spacers. Bottom weight fully plastic covered linked with plastic bead chain. Product manufactured by M/S.SUNDRAPE, Germany being marketed by M/S The Protectors.

VENETIAN BLINDS

Venetian Blinds made of tungsten alloy aluminium. Thickness 0.20mm. Top and bottom channels of powder coated aluminium in thickness 1.4 mm. Brass pulley, brass roller cord lock with side stainless steel plate. Tiller having brass and nylon with flexible powder coated steel tilting rod. Ladder cord with 20 mm spacing and antilflutter type. Product manufactured by M/S SUNDRAPE, Germany being marketed by M/S The Protectors.

PLEATED BLINDS

Pleated Blinds made of polyester fabric with aluminium coating at its back. Pleats of one inch with segments at the interval of 20''. Top and bottom channels made of aluminium in matching colors. Cord lock and pulleys made of brass. Product manufactured by M/S VEROSOL, Holland and being marketed by M/s. The Protectors.

ROLLER BLINDS

The Blind system consist of a coated aluminium tube of 38 mm diameter with provision of fabric clamping.

The Fabric is rolled up and down through a chain drive system with built in drive gear and an over run brake system.

The side brackets are universal type suitable both for wall and ceiling mounting.

The bottom end of the fabric is rolled over an oval shape aluminium tube with provision to lock the fabric.

ZEBRA BLINDS

SILHOUTTE BLINDS

ROMAN BLINDS

ALUMINIUM STRIP CEILINGS

Perforated (or Plain) Aluminium strip ceilings of 100 mm module of thickness 0.5 mm with baked enamel finish manufactured by M/S HUNTER DOUGLAS, Holland and being marketed by M/S The Protectors. The system composed of Galvanized steel carriers, wall trim, and adjustable hangers with steel rods.

METAL TILE CEILINGS (CLIP IN, Flush Type)

Metal Tile Ceilings of size 600 x 600 mm made of 0.7 mm thick painted aluminium (or 0.5 mm zinc powder coated steel.) with baked polyester paint finish. The product of M/S HUNTER DOUGLAS, Holland and being marketed by M/S The Protectors. The complete system with installation at site composed of flush galvanized steel clip profile with cross reinforcement. The tiles will be painted without perforation (or perforated with glass fibre mat backing).

METAL TILE CEILINGS (LAY IN, Recessed)

Metal Tile Ceilings of size 575 x 575 mm made of 0.68 mm thick stove enameled Painted aluminium (or 0.5 mm zinc powder coated steel) leaving a groove of 25 mm with baked polyester paint finish. The product of M/S HUNTER DOUGLAS, Holland and being marketed by M/S The Protectors. Tiles are laid on exposed aluminium tee frame of size 1" flat anodized or powder Coated in any approved color. The tiles will be plain without perforation (or perforated with 2.0 mm holes in square configuration).

METAL TILE CEILINGS Wide panels

Supply and Installation of Wide Panel Lay-on type ceiling tiles of size 300 x 1800 mm module. The panels can easily be lifted up to allow full access to services in plenum. Panels will be self-supported on band raster profile, flushed with the ceiling panel. The system manufactured by M/S Hunter Douglas, Holland; or equivalent

Panels: Panels to be Roll Formed from 0.7 thick Aluminum alloy according to EN 1396.

Stove enameled polyester paint in dull finish as per approved shade by the consultant.

Panels are Plain or Perforated as per specified on the drawings.

Perforated Panels having perforation of +/- 1.5 mm in diagonal pattern having 23-25 % open area. Perforated panels to have a nominal plain border along the longitudinal panel direction as per manufacturer standard.

Perforated panels will be provided with non-woven acoustic and fire rated tissue glued over the whole perforation area

The longitudinal edges of two panels will have a straight or bevel groove not exceeding 10 mm . The grooves should have a system of self alignment. The 300 mm edge will have butt joint with band raster profile.

Suspension: Standard band-raster profiles 100 mm wide 30 mm high made of painted aluminum in thickness 1.2 mm, running at every 1800 mm center to center. Cross supports running at every 2400 mm. made of galvanized steel of size 20 x 50 x 0.6 mm

Hanging arrangements through adjustable U shaped rigid profile attached to ceiling through 2 inch Rowel Bolt

Wall Trim: Concealed wall trim profile made of heavy duty extruded and painted aluminum in thickness 1.5 mm, The wall edges will form a groove of 15 mm at the periphery.

Fixtures: Ceiling system must be capable to accommodate lights fittings, fire sensors, speakers or any other fittings and accessories.

GYPSUM BOARD CEILING

The works include supply and installation of Gypsum Board Ceiling which Incorporates a fully concealed metal fixing grid. Complete with all necessary hardware, fittings and accessories. Board joints are not visible and all gaps are filled with gypsum jointing compound. The job also includes providing access panels, cutting of spot lights, luminaires, speaker, etc.

Gypsum Board Sheets reinforced with glass fibre and laminated with paper board at both sides. Sheets in size 4' x 8' in thickness ½" (or 3/8") screwed on steel stud system. The steel stud frame consisting of main furring channel at every 2' and cross channel at every 4'. Both main and cross channels are attached through jaw clip. Screws will be corrosion proof either Chromised

or Cynated.

The gaps will be initially filled with joining gypsum plaster compound and then taped by self adhesive glass fibre mesh of width 2 inch covered with proper jointing compound.

CEMENT BOARD CEILING

Supply and Intallation of 12mm thick flat cement based sheets of size 4 ft x 8 ft. Cured and reinforced with fiber glass. Smooth surface and paint able.

Structure: Galvanized steel structure, 50mm wide, composed of main and cross runners running at every 2 ft. Additional suitable heavy duty channels to be provided where roof support is not available. All hangings will be through heavy vertical studs. Ravel Bolt will be used

Surface: All joints and screw heads are sealed with bonding compound.

PROTECT BOARD TILES

Protect Board Tiles made of dehydrated gypsum and glass fibre with Lamination of paper board on both sides. Additional face lamination of fire rated PVC sheet and LDPE (Low Density Polyethylene) at its back. The board is light weight and water resistant having thickness of 10 mm. The sheets are placed on exposed powder coated grooved aluminium tee of face ¾".

MINERAL FIBRE CEILING TILES

Mineral Fibre Ceiling Tiles of size 600 x 600 mm of thickness 15 mm in Fissured (pinhole) design. Tiles are laid on exposed aluminium tee frame. Tees are of size 1" flat (or ¾" with groove) natural anodized or powder coated in any approved color.

GLASS FIBRE CEILING TILES

Glass Fibre Ceiling Tiles of size 600 (1200) x 600 mm of thickness 15 mm having face lamination of PVC sheet. Tiles are laid on exposed aluminium tee frame. Tees are of size 1" flat (or ¾" with groove) natural anodized or powder coated in any approved color.

COLLAPSIBLE FOLDING DOORS

Rigid PVC panels of size 6" x ½" required length. Panels laminated in plain and wood texture as per approved shade. The panels supported at the top with sliding wheels running in aluminium track of size ¾" x 1". Door can be opened and collected at any side or in center.

ALUMINIUM DOORS WINDOWS

Providing and Fixing Air tight and water proof aluminium heavy duty Fixed/ Sliding/Openable windows/doors as per architectural drawing (or approved sample). Main frame consisting of 4" x 2" sections in thickness 1.5 mm. Surface powder coated/Natural/Bronze Anodized of 15 micron film. The material includes all fixtures, fittings, hardwares, locks, hydraulic door closers, and gaskets.

ALUMINIUM CURTAIN WALL

Providing and Fixing air tight and water proof Bronze/Natural/Powder Coated aluminium fixed exterior glazing as per architectural drawings/approved samples. The vertical and horizontal mullions of thickness 2.0 mm reinforced with pre-painted square steel tube of 1 inch in thickness 2.0 mm. Supported with slab through brackets. The system should bear wind velocity of 80 mph and maximum temperature variation of 40 degrees centigrades. Sections are of size 2" x 6" complete with rubber gaskets. All joints are filled with silicone.

ALUMINIUM ROLLER SHUTTER

ALUMINIUM Shutter of size 50 mm x 12 mm (or 38 mm x 8 mm) made of 0.5mm Aluminium Alloy Sheets having weather resistant paint. Profiles are roll formed and is filled with polyurethane foam. Bottom profile is extruded aluminium with locking arrangements. Side channels are made of aluminium in thickness 2.0 mm with provision for weather gas-kit.

Lifting and lowering is achieved through a tape (or crank or motorized) system. Shutter will roll over a steel tube of 60 mm dia. with side brackets and plate.

STAINLESS STEEL ROLLER SHUTTERS