

Part 1 General

1.1 SUBMITTALS

- .1 Submit submittals in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Product Data:
 - .1 Submit manufacturer's printed product literature and data sheets for horizontal louver blinds; include product characteristics, performance criteria, physical size, finish and limitations.
- .3 Shop Drawings:
 - .1 Indicate on drawings dimensions in relation to window jambs, operator details, anchorage details, hardware and accessories details.
- .4 Samples:
 - .1 Submit duplicate samples of manufacturer's standard colours for selection by Departmental Representative.

1.2 DELIVERY, STORAGE AND HANDLING

- .1 Deliver, store and handle materials in accordance with Section 01 61 00 - Common Product Requirements and with manufacturer's written instructions.
- .2 Deliver materials to site in original factory packaging, labelled with manufacturer's name and address.
- .3 Storage and Handling Requirements:
 - .1 Store materials off ground indoors in dry location and in accordance with manufacturer's recommendations in clean, dry, well-ventilated area.
 - .2 Store and protect horizontal louvre blinds from nicks, scratches, and blemishes.
 - .3 Replace defective or damaged materials with new.

Part 2 Products

2.1 MATERIALS AND FABRICATION

- .1 Blinds: Aluminum horizontal louvre blinds, corded draw, adjustable and lockable positioning; install blinds inset to window frames, complete with valences. Measure and confirm blind sizes prior to fabrication.
 - .1 Slats: 25 mm wide x 0.20 mm (0.008 inch) nominal thickness, with rounded corners and rough edges removed.
 - .1 Aluminum alloy, corrosion resistant, spring-tempered.
 - .2 Colour and finish: Beige.
 - .2 Ladders:

- .1 Braided polyester yarn designed for full tilting action while retaining same level and position of each slat.
- .2 Ladders spaced not more than 150 mm from end of slats and 550 mm on centre.
- .3 Colour to match slats.
- .3 Headrails:
 - .1 One piece steel or aluminum channel with rolled edges, formed to provide sufficient strength to support blind without sagging, twisting, or distorting.
 - .2 Metal minimum 0.50 mm thick.
- .4 Bottom rails:
 - .1 Tubular steel or aluminum section.
 - .2 Bottom rail end caps: Soft moulded plastic fitted snugly over ends of rails, colour to match slats.
- .5 Tilt rods: steel or aluminum.
- .6 Pulleys: designed to permit ease of operation with minimum wear to cord.
- .7 Valance: same material colour and finish as slats.
- .8 Tilters:
 - .1 Fully enclosed and lubricated, with positively locked to drum to prevent slippage and ensure accurate timing.
 - .2 Use anti-friction materials for worm and gear.
- .9 Cord locks: designed to provide smooth operation with feature to prevent accidental dropping of blinds.
- .10 Ladder cap: designed to provide sufficient retention when snapped onto bottom rail to hold ladders in proper position.
- .11 Installation brackets: end and centre type complete with safety locking caps to secure headrail and valance.
- .12 Lift cords: 1.98 mm diameter.
- .13 Hold down clips: jamb mountings, to engage bottom rail end caps.
- .14 Tilter controls: wand type, minimum 8 mm diameter.
- .2 Acceptable products:
 - .1 Hunter Douglas CE81 – 1 inch Mini Aluminum Blinds.
 - .2 Levelor Custom Mark 1 Metal Blinds.
 - .3 Silent Gliss 8110.

2.2 FABRICATION

- .1 Fabricate blinds to mount inset to window frame.
- .2 Fabricate with valances to cover head rails.
- .3 Fabricate separate blinds for between window mullions, with two assemblies for double windows.

Part 3 Execution

3.1 EXAMINATION

- .1 Verify conditions of substrates and surfaces to receive horizontal louvre blinds are acceptable for product installation in accordance with manufacturer's instructions, prior to horizontal louvre blinds installation.
 - .1 Visually inspect substrate.
 - .2 Inform Departmental Representative of unacceptable conditions.
 - .3 Proceed with installation only after unacceptable conditions have been remedied.

3.2 INSTALLATION

- .1 Install blinds at locations indicated.
- .2 Install blinds level.
- .3 Include centre brackets where necessary to prevent deflection of headrail.
- .4 Adjust and provide adequate clearance for smooth operation without binding.
- .5 Use non-corrosive metal fasteners for installation, concealed in final assembly.

3.3 ADJUSTING

- .1 Adjust horizontal louvre blinds components for correct function and operation in accordance with manufacturer's written instructions.
- .2 Lubricate moving parts to operate smoothly and fit accurately.

3.4 CLEANING

- .1 Progress Cleaning: clean in accordance with Section 01 74 00 - Cleaning.
 - .1 Leave Work area clean at end of each day.
- .2 Final Cleaning: upon completion remove surplus materials, rubbish, tools and equipment in accordance with Section 01 74 00 - Cleaning.
- .3 Clean blinds of dirt, dust, and finger marks.
- .4 Waste Management: Remove waste materials in accordance with Section 01 74 19 - Waste Management and Disposal.

3.5 PROTECTION

- .1 Protect installed products and components from damage during construction.
- .2 Repair damage to adjacent materials caused by horizontal louvre blinds installation.

END OF SECTION

Part 1 General

1.1 SUBMITTALS

- .1 Provide submittals in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Product Data: Provide manufacturer's printed product literature and data sheets; include product characteristics, performance criteria, physical size, finish, and limitations.
- .3 Shop Drawings: Indicate size and description of components, base material, surface finish inside and out, hardware.
- .4 Closeout Submittals: Provide maintenance data for specialties for incorporation into manual specified in Section 01 78 00 - Closeout Submittals.

1.2 DELIVERY, STORAGE AND HANDLING

- .1 Deliver, store and handle materials in accordance with Section 01 61 00 - Common Product Requirements and with manufacturer's written instructions.
- .2 Deliver materials to site in original factory packaging, labelled with manufacturer's name and address.
- .3 Storage and Handling Requirements:
 - .1 Store materials in accordance with manufacturer's recommendations in clean, dry, well-ventilated area.
 - .2 Store and protect specialties from nicks, scratches, and blemishes.
 - .3 Replace defective or damaged materials with new.

Part 2 Products

2.1 BICYCLE SHELTER

- .1 Canopy: Cold-rolled sheet steel, structural ribbed profile, galvanized and powder coated.
 - .1 Fasteners: Stainless steel.
- .2 Bicycle racks: Steel tubing or pipe, outer diameter 55-65 mm, minimum thickness 3.9 mm.
 - .1 Form curves in tubing or pipe by bending. Maintain cylindrical cross section of member throughout bend without buckling, twisting, cracking or deforming exposed surfaces or components.
- .3 Finishes: Powder coat paint. Colours as selected by Departmental Representative.

2.2 BICYCLE HOOKS

- .1 Bicycle hanging hooks: Steel hooks, heavy duty, threaded end for attachment to substrate, with protective foam rubber or vinyl coating.

Part 3 Execution

3.1 EXAMINATION

- .1 Verify that conditions of substrates and surfaces to receive bicycle shelter and accessories are acceptable for product installation in accordance with manufacturer's instructions.
- .2 Inform Departmental Representative of unacceptable conditions.
- .3 Proceed with installation only after unacceptable conditions have been remedied.

3.2 INSTALLATION

- .1 Locate bicycle shelter and accessories as indicated.
- .2 Install in accordance with manufacturer's instructions.
- .3 Install plumb, level, and rigidly anchored to substrate.
- .4 Install rigidly in place.

3.3 CLEANING

- .1 Cleaning: In accordance with Section 01 74 00 - Cleaning.
 - .1 Remove labels after work is complete.
 - .2 Clean surfaces as required, following procedures and using cleaning materials as recommended by specialty manufacturer.
- .2 Final Cleaning: Upon completion, remove surplus materials, rubbish, tools, and equipment in accordance with Section 01 74 00 - Cleaning.
- .3 Waste Management: Remove waste materials in accordance with Section 01 74 19 - Construction/Demolition Waste Management and Disposal.

3.4 PROTECTION

- .1 Protect installed products and components from damage during construction.
- .2 Repair damage to adjacent materials caused by bicycle shelter and accessories installation.

END OF SECTION