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| Version | Date | Description of Revisions |
| 1 | August 30, 2006 | Approved final document. |
| 2 | September 30, 2009 | Review/update of the document related sections |
| 3 | September 28, 2010 | Minor Revisions and added section 1.3 – Measurement and Payment |
| 4 | June 27 2012 | Addition of References and Replacement Parts sections on this page |
| 5 | July 13, 2012 | Reformatted to Reduce White Space |
| 6 | April 23, 2015 | General formatting |
| 7 | April 7, 2016 | Phase 1 review (AV) |
| 8 | November 29, 2016 | Update as per Legal’s comments (eDOC’s #6284812) AAM |

NOTE:

This is a CONTROLLED Document. Any documents appearing in paper form are not controlled and should be checked against the on-line file version prior to use.

**Notice:** This Document hardcopy must be used for reference purpose only.

**The on-line copy is the current version of the document.**

# GEneral

## Related Sections

### *[Under "Related Sections", identify other Sections that are related to, and/or dependent on, the work results or information specified elsewhere. The list should be limited to Sections with specific information that the reader might expect to find in this Section, but is specified elsewhere. For example, if hardware for Aluminium entrances is specified in the Aluminium entrance Section, a cross-reference would be appropriate in the finish hardware Section. The purpose of this cross-referencing is for information only, to aid in finding those other requirements—not to define the scope of the Section.*

### *Cross-referencing here may also be used to coordinate assemblies or systems whose components may span multiple Sections and which must meet certain performance requirements as an assembly or system.*

### *Contractor is responsible for coordination of the Work.*

### *This Section is to be completed/updated during the design development by the Consultant. If it is not applicable to the section for the specific project it may be deleted.]*

### *[List Sections specifying installation of products supplied but not installed under this Section and indicate specific items.]*

### Section [\_\_\_\_\_\_ – \_\_\_\_\_\_\_\_\_\_\_\_]: Execution requirements for ...[item]... specified under this Section.

### *[List Sections specifying products installed but not supplied under this Section and indicate specific items.]*

### Section [\_\_\_\_\_\_ – \_\_\_\_\_\_\_\_\_\_\_\_]: Product requirements for ...[item]... for installation under this Section.

### *[List Sections specifying related requirements.]*

### Section [\_\_\_\_\_\_ – \_\_\_\_\_\_\_\_\_\_\_\_]: [Optional short phrase indicating relationship].

#### Section 01300 Submittals

## References

### Comply with the latest edition of the following statutes codes and standards and all amendments thereto.

#### The Aluminium Association, Designation System for Aluminium Finishes.

#### American Society for Testing and Materials International, (ASTM).

##### ASTM A366M, Specification for Steel, Sheet, Carbon, Cold-Rolled, Commercial Quality. *[Consultant to provide standard or amend with alternate standard as required]*

##### ASTM A653/A653M-15, Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy – Coated (Galvannealed) by the Hot-Dip Process.

##### ASTM B32-08(2014), Standard Specification for Solder Metal.

##### ASTM D523-14, Standard Test Method for Specular Gloss.

##### ASTM D822/D822M-13, Standard Practice for Filtered Open-Flame Carbon-Arc Exposures of Paint and Related Coatings.

#### Canadian General Standards Board (CGSB) *[Consultant to provide alternative to this withdrawn standard below]*

##### CGSB 1.213:2004, Etch Primer (Pretreatment Coating or Tie Coat) for Steel and Aluminum.

## Measurement and Payment

*[Choose one of the following payment language provisions that best suits the individual project.*

*If this Section is not specifically referenced by an item in the Bid Form, please use the following language:*

### The work of this Section will not be measured separately for payment. All costs associated with the work of this Section shall be included in the Contract Price.

*OR If this Section is specifically referenced in the Bid Form, use the following language and identify the relevant item in the Bid Form:*

### All costs associated with the work of this Section shall be included in the price(s) for Item No(s). \_\_\_ in the Bid Form.

*If the work of this Section is to be measured and paid for by several different methods, please amend the standard wording given above to reflect the different methods of measurement and payment.*]

## Submittals

### Shop Drawings:

#### Submit shop drawings in accordance with Section 01300 - Submittals.

#### Indicate fabrication and erection details, including anchorage, accessories, and finishes.

### Samples:

#### Submit samples in accordance with Section 01300 - Submittals.

#### Submit duplicate samples of [each type of] [louvre] and [vent] showing colour and finish.

#### Show frame detail, screening and finish.

### Closeout Submittals:

#### Provide operation and maintenance data for manual or motorized operated louvres.

# PRODUCTS

## Materials

### Galvanized steel sheet: commercial quality to ASTM A653/653M-15 with Z275 zinc coating.

### Steel sheet: commercial quality to ASTM A366 *[Consultant to provide standard or amend with alternate standard as required]* with Class I matte finish.

### Aluminium sheet: mill finish [plain] [embossed] [\_\_\_\_] [pattern] utility sheet.

### Aluminium extrusions: Aluminium Association alloy AA6063-T5.

### Solder: In accordance with ASTM B32-08(2014), 50% tin and 50% lead.

### Flux: suitable for materials to be soldered.

### Nails and fasteners: same material as fabricated items.

### Gaskets: vinyl.

### Primer: In accordance with CGSB 1.231:2004 for Aluminium surfaces.

### Prefinished steel sheet:

#### Prefinished steel with factory applied polyvinyl fluoride.

##### Class [F1S] [F2S].

#### [ ] colour selected by the Consultant from the manufacturer's standard range*.[Note to Consultant: If metallic colour series is used then specular gloss should be 15 +/- 5 units.]*

#### Specular gloss: [30] units +/- 5 in accordance with ASTM D523-14.

#### Coating thickness: not less than [200] micrometres.

#### Resistance to accelerated weathering for chalk rating of [8,] colour fade [5] units or less and erosion rate less than [20]% to ASTM D822/D822M-13 as follows:

##### Outdoor exposure period [5,000] hours.

##### Humidity resistance exposure period [5,000] hours.

### Prefinished Aluminium sheet:

#### Finish Aluminium sheet metal with factory applied coating to [*Consultant to provide standard or amend with alternate standard as required]* amended as follows:

#### Type [1] [2].

#### Class [F1S] [F2S].

#### [ ] colour selected by the Consultant from manufacturer's standard range.

#### Specular gloss: [ ] units.

#### Coating thickness: not less than [ ] micrometres.

#### Outdoor exposure period [ ] years.

#### Exposure period for humidity resistance [ ] hours.

#### Exposure period for salt spray resistance [ ] hours.

### Screens:

#### Insect screens: [0.3 mm diameter Aluminium wire] [fibreglass] 18 x 14 mesh with 60% free area, secured to Aluminium frame.

#### Birdscreens: [crimped] [intercrimped] Aluminium wire cloth secured to [2] [2.2] mm thick extruded Aluminium frame mitreed at corners and secured with corner locks, [ ] size mesh, [ ] diameter wire with [ ]% free area.

### Extruded Aluminium louvres:

#### Construct louvres from aluminium extrusions of minimum 3 mm thickness to sizes and shapes indicated.

#### Arrange blades, mullions and frame extrusions as indicated in the Contract Documents.

#### Install concealed vertical stiffeners spaced to meet required loads.

#### Complete louvre assembly to have [ ]% free area.

### Adjustable louvres:

#### Construct manually adjustable louvres from Aluminium extrusions of minimum 3 mm thickness.

#### Arrange blades, mullions and frame extrusions as indicated.

#### Center pivot [stormproof type] blades with two reinforcing bosses with pinions operating in self-lubricating nylon bearings.

#### Arrange blades to be operated by concealed drive arms at each jamb. Connect drive arms by torsion bars operating in nylon bearings.

#### Equip louvre blades and sills with vinyl gasket weather seals. [Mechanically fasten] [Adhere] vinyl gaskets to ends of louvre blades to provide jamb weather seal.

#### Complete louvre assembly to have [ ]% free area when in open position.

#### Provide louvres with manual hand crank operator with removable crank located at [ ].

### Door louvres:

#### Construct door louvres from [steel] [aluminium] extrusions a minimum [ ] thick. Minimum free area of 35%. Provide fasteners to suit louvre material.

#### Use [standard] [sight-proof] [lightproof] [operating] blades.

#### Provide separate adjustable trim member for clamping louvre in opening.

#### Miter frame and trim members at corners and secure rigidly with corner brackets.

#### Secure interior frame with countersunk [tamperproof] screws.

### Brick vents:

#### Construct brick vents from [steel] [aluminium extrusions] minimum 3 mm thick with 6 mm structural ribs. Sizes of brick vents as indicated.

#### Attach insect screen to interior face of vent.

#### Provide weep-holes at 125 mm oc.

#### Apply protective masking cover on exposed surfaces before shipping.

### Louvred Penthouses:

#### Construct penthouse louvres from extruded aluminium storm-proof blades of minimum 3 mm thickness.

#### Continuously heliarc weld at corners sills, blades and head members. Support by structural aluminium angles on interior as indicated.

#### Provide one piece weatherproof roof of 2 mm thick aluminium sheet reinforced with 50 mm x 50 mm x 6 mm aluminium angles at 1,200 mm oc. Insulate underside of roof with minimum 6 mm thick sound deadening and anti-condensation coating.

#### Attach bird insect screen to inside face of penthouse louvres.

## Finishes

### Finish exposed surfaces of Aluminium components in accordance with The Aluminium Association Designation System for Aluminium Finishes.

#### As fabricated or mill finish: designation AA-\_\_\_\_\_\_.

#### Clear anodic finish: designation AA-\_\_\_\_\_\_.

#### Integral colour anodic finish: designation AA-\_\_\_\_\_\_, \_\_\_\_\_\_ colour to match the Consultant’s sample.

#### Impregnated colour anodic finish: designation AA-\_\_\_\_\_\_, \_\_\_\_\_\_ colour to match the Consultant's sample.

#### Electrolytically deposited colour anodic finish: designation AA-\_\_\_\_\_\_, \_\_\_\_\_\_ colour to match the Consultant's sample.

### Appearance and properties of anodized finishes designated by The Aluminium Association as Architectural Class 1, Architectural Class 2, and Protective and Decorative.

# EXECUTION

## Installation

### Install louvres [and vents] where indicated in the Contract Documents.

### Set adjustable louvre blades for uniform alignment in open and closed positions.

### Adjust louvres so moving parts operate smoothly.

### Attach [bird] [insect] screen to inside face of louvre or vent.

### Repair damage to louvres [and vents] to match original finish.

## Schedule

### *[Consultant to insert Schedule].*

**END OF SECTION**