
Partie 1 General

1.1 RELATED REQUIREMENTS

- .1 The list of Work in this division is indicative but non-limiting. It does not exclude Work described in other specification divisions shown on the drawings or required for full execution of the Work as intended on the drawings.
- .2 Section 03 30 00 Cast-in-place Concrete.
- .3 Section 06 10 00 Rough Carpentry.
- .4 Section 06 20 00 Finish Carpentry.
- .5 Section 07 92 00 Joint Sealants.
- .6 Section 08 11 00 Metal Doors and Frames.
- .7 Section 08 11 16 Aluminum Doors and Frames.
- .8 Section 08 44 13 Glazed Aluminum Curtain Walls.
- .9 Section 09 30 13 Ceramic Tile.

1.2 REFERENCES

ASTM INTERNATIONAL

- .1 ASTM B221 - 14 Standard Specification for Aluminum and Aluminum-alloy Extruded Bars, Rods, Wire, Profiles, and Tubes.
- .2 ASTM A1016 / A1016M - 14 Standard Specification for General Requirements for Ferritic Alloy Steel, Austenitic Alloy Steel, and Stainless Steel Tubes.

1.3 ACTION AND INFORMATIONAL SUBMITTALS

- .1 Submit in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Product Data:
 - .1 Submit manufacturer's printed product literature and datasheet, including:
 - .1 Product characteristics.
 - .2 Performance criteria.
 - .3 Limitations.
- .3 Submit two copies WHMIS MSDS - Material Safety Data Sheets.
- .4 Quality Assurance:
 - .1 Certificates: submit product certificates signed by manufacturer certifying materials comply with specified performance characteristics and criteria and physical requirements.
 - .2 Instruction: submit manufacturer's instructions and comply with requirements, recommendations and written specifications including product data sheets, handling instructions, storing and installations and technical literature.

1.4 QUALITY ASSURANCE:

- .1 Test Reports: submit certified test reports showing compliance with specified performance characteristics and physical properties.
- .2 Certificates: submit product certificates signed by manufacturer certifying materials comply with specified performance characteristics and criteria and physical requirements.
- .3 Convene pre-installation meeting one week prior to beginning Work under this Section with Departmental Representative in accordance with Section 01 14 23 – Work Sequence and Section 01 32 16.07 - Construction Progress Schedules - Bar (GANTT) Chart to:
 - .1 Verify project requirements.
 - .2 Review installation and substrate conditions.
 - .3 Co-ordination with other building subtrades.
 - .4 Review manufacturer's installation instructions and warranty requirements.
- .4 Health and safety: take necessary health and safety measures in compliance with Section 01 35 29.06 – Health and Safety.
- .5 Mock-ups:
 - .1 Submit mock-up of work in accordance with Section 01 45 00 – Quality Control.
 - .2 Construct mock-up illustrating method for installing vapour barrier on inside corner and around electrical box and lap joint. Mock-up may be integrated into final work.
 - .3 To judge quality of work, substrate preparation, operation of equipment and material application.
 - .4 Construct mock-up in designated location.
 - .5 Allow 24 hours before installing vapour barrier to allow Departmental Representative to examine mock-up.
- .6 When approved, samples shall become acceptable standard of quality for appropriate on-site surface with one of each sample retained on-site.

1.5 DELIVERY, STORAGE AND HANDLING

- .1 Waste Management and Disposal:
 - .1 Separate waste materials for reuse and recycling in accordance with Section 01 74 21 - Construction/Demolition Waste Management and Disposal.
 - .2 Remove packaging material from site and dispose of materials at appropriate facility.
 - .3 Recover and sort paper, plastic, polystyrene and cardboard packaging and dispose of in on-site recycling bins. Move recycling containers and bins from site and dispose of materials at appropriate facility.

1.6 ACCEPTABLE PRODUCTS AND MATERIALS

- .1 Where a particular brand name is stipulated, see Instructions to Bidders for procedure for requesting approval of substitute materials and products

Partie 2 Products

2.1 MATERIALS

- .1 Extruded aluminum: 6061-T6 alloy, to Aluminum Association.
- .2 Aluminum sheet: 6061-T6 alloy, anodizing quality, to Aluminum Association.
- .3 Insulating coating: alkyd corrosion resistant primer.

2.2 FOOT GRILLES

- .1 Bars:
 - .1 T-shaped extruded aluminum, 9.5 x 25 x 3 mm, 4.8 mm spacing.
 - .2 Tubes 9 mm in diameter, compressed every 150 mm on centre.
- .2 Frame:
 - .1 Aluminum extrusion, anchor type (CA).
 - .2 Mechanical joints for large size grilles, as recommended by manufacturer.
 - .3 Supports every 203 mm.
 - .4 Alkyd corrosion resistant primer on concrete frames.
- .3 Basin:
 - .1 Stainless steel 0.9119 mm thick.

2.3 ACCESSORIES

- .1 Zinc plated steel bars, No. 694-1011 (2 per panel).
- .2 Lifting hook and lock down.
- .3 Soundproofing neoprene gasket.
- .4 Modified bitumn SBS self-adhering membrane and polyethylene weave 1 mm thick minimum.
- .5 Self-adhering membrane primer.

2.4 ACCEPTABLE PRODUCTS

- .1 BA-1 model by Bolar.
- .2 AN-1000 model by Cométal.
- .3 S-375 model by Stena.
- .4 Replacement materials and products: approved by addendum in accordance with Instructions to Bidders.

Partie 3 EXECUTION

3.1 INSTALLATION

- .1 Grilles in concrete floors:
 - .1 Install level in concrete floor.
 - .2 Install grilles level and plumb on neoprene soundproofing pads.
 - .3 Polish and waterproof concrete.
 - .4 Securely anchor frames and supports to avoid bending.
 - .5 Install double bars and spacers perpendicular to bars to reduce size of panels.
 - .6 Align joints on curtain wall centre, as indicated on plans.
- .2 Grilles on veneer floors (Ceremonial Hall):
 - .1 Install grilles level and plumb on veneer.
 - .2 Apply membrane and primer prior to installing basin and frame.
 - .3 Install grilles plumb and level on neoprene soundproofing pads.
 - .4 Securely anchor frames and supports to frame to avoid bending.
 - .5 Install double bars and spacers perpendicular to bars to reduce size of panels.

3.2 CLEANING

- .1 Clean in accordance with Section 01 74 11 - Cleaning.
- .2 Upon completion remove surplus materials, rubbish, tools and equipment.

END OF SECTION