

PART 1 - GENERAL

1.1 GENERAL REQUIREMENTS

- .1 Comply with requirements of Division 1.

1.2 RELATED SECTIONS

- .1 Section 06 40 00: Architectural Woodwork.
- .2 Division 21 – Fire Suppression.
- .3 Division 23 – HVAC.
- .4 Division 26 – Electrical.

1.3 REFERENCES

- .1 Canadian Standards Association.
 - .1 CAN/CSA B651-12, Accessible Design for the Built Environment.
- .2 EPA - Energy Star Appliances.
- .3 National Building Code of Canada (NBCC), current edition.

1.4 SUBMITTALS

- .1 Submit in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Product Data:
 - .1 Submit product data sheet for each type of appliance specified including:
 - .1 Model number, and selected options for each appliance.
 - .2 Size, dimensions, and required clearance dimensions.
 - .3 Preparation instructions and recommendations.
 - .4 Storage and handling requirements.
 - .5 List of maintenance parts.
 - .6 Manufacturer's written maintenance data sheets.
 - .2 Submit appliance manufacturer's installation instructions. Indicate special procedures, required clearances and perimeter conditions requiring special attention.
- .3 Samples:
 - .1 Submit duplicate samples of colour chips for each specified appliance for colour selection by Departmental Representative.

1.5 CLOSEOUT SUBMITTALS

- .1 Submit operation and maintenance data for incorporation into manual specified in Section 01 78 00 - Closeout Submittals.
- .2 Submit maintenance data: Include maintenance procedures, recommendations for maintenance, and suggested schedule for cleaning, warranty information and warranty certificates.

1.6 CO-ORDINATION

- .1 Coordinate with work of other Sections, particularly Section 06 40 00 – Architectural Woodwork.
- .2 Provide unit dimensions, cut-out sizes, and required clearances around appliances to the trade responsible for kitchen cabinetwork.
 - .1 Provide information in a timely manner when requested by Departmental Representative.

1.7 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. Do not remove original packaging until ready for installation.
- .3 Store indoors in dry location, in accordance with manufacturer's recommendations in clean, dry, well-ventilated area.

1.8 WASTE MANAGEMENT AND DISPOSAL

- .1 Separate and recycle waste materials in accordance with Section 01 74 21 - Construction Management and Disposal.
- .2 Remove from site and dispose of packaging materials at appropriate recycling facilities.
- .3 Collect and separate for disposal paper, plastic, polystyrene, corrugated cardboard, packaging material in appropriate on-site for recycling in accordance with Waste Management Plan.

1.9 SITE CONDITIONS

- .1 Maintain environmental conditions within limits recommended by appliance manufacturers. Do not install appliances under adverse environmental conditions.

PART 2 - PRODUCTS

2.1 GENERAL REQUIREMENTS

- .1 All appliances to be installed in one area will be by one manufacturer (eg. all kitchen appliances by one manufacturer; laundry appliances by one manufacturer).
 - .1 Ensure appliances have matching available colours. Mix of colours and finishes in one area is not acceptable (eg. Kitchen appliances in a mix of black, white and stainless steel finishes not acceptable).

- .2 Appliance colours (white, black or stainless steel) to be selected by Departmental Representative from manufacturer's standard available colours.
- .3 Acceptable manufacturers: GE; Whirlpool; Maytag; Frigidaire; Kenmore; and other manufacturers accepted during tender period.
- .2 Certifications: all appliances to have at a minimum UL or ULC listing, CSA listing.
- .3 Warranty: Provide manufacturer's standard one-year parts and labour warranty for each appliance.

2.2 APPLIANCES

- .1 Refrigerator – bottom freezer: mid-size unit with compact footprint.
 - .1 Capacity: range 16 to 18 cu.ft.
 - .2 Dimensions: approx. 762 mm. (30") wide x 762 mm (30") deep. height between 1575 mm (62") to 1725 mm (68") high.
 - .3 Frost free operation.
 - .4 Reversible door.
- .2 Refrigerator – top freezer: mid-size unit with compact footprint.
 - .1 Capacity: range 16 to 18 cu.ft.
 - .2 Dimensions: approx. 762 mm. (30") wide x 762 mm (30") deep. height between 1575 mm (62") to 1725 mm (68") high.
 - .3 Frost free operation.
 - .4 Reversible door.
- .3 Stove cooktop: coil or smooth surface, electric cooktop with front controls for barrier-free use.
 - .1 Cooktop size: range 610mm (24") to 762mm (30") wide max.
 - .2 Depth: approx. 546 mm (21.5") deep.
 - .3 Power requirements: 20 amp, 240 volts.
 - .4 Control location: front.
- .4 Free-standing oven: single, electric, free-standing counter-depth range.
 - .1 Oven capacity: range 4.8 to 5.3 cu.ft.
 - .2 Range size: maximum 762 mm (30") wide, maximum.
 - .3 Depth: approx. 711 mm (28") deep.
 - .4 Power requirements: 20 amp, 240 volts.
 - .5 Cooktop with 4 elements; oven w/ standard 2 racks; bottom storage drawer.
- .5 Wall-oven: single, electric wall-oven; cabinet install for barrier-free use.
 - .1 Oven capacity: about 4 cu.ft.
 - .2 Cut-out dimensions: approx. 686 mm. (27") wide x 610 mm (24") deep x 711 mm (28") height.
 - .3 Power requirements: 20 amp, 240 volts.
 - .4 Standard 2 racks.
 - .5 Side opening door with large window.

- .6 Countertop microwave: mid-size unit, to suit cabinet installation.
 - .1 Capacity: range 1.2 to 1.6 cu.ft.
 - .2 Cooking Power: range 1,000 to 1,200 watts.
 - .3 Dimensions: approx. 552 mm. wide x 457 mm deep x 330 mm height.
 - .4 Controls: digital.

- .7 Upright Freezer: mid-size unit, free-standing unit.
 - .1 Capacity: range 14 to 16 cu.ft.
 - .2 Dimensions: approx. 762 mm. (30") wide x 762 mm (30") deep x 1500 mm (60") height.
 - .3 Frost Free operation.
 - .4 Reversible door.

- .8 Electric Washer: energy efficient, front-load washer.
 - .1 Capacity: range 4.5 to 5.2 cu.ft.
 - .2 Dimensions: approx. 762 mm. (30") wide x 762 mm (30") deep.
 - .3 Multiple wash cycles.
 - .4 Energy Star certified.
 - .5 Reversible door.

- .9 Electric Dryer: front-load dryer.
 - .1 Capacity: range 7.0 to 7.3 cu.ft.
 - .2 Dimensions: approx. 762 mm. (30") wide x 762 mm (30") deep.
 - .3 Power requirement: 240 volts.
 - .4 Reversible door.

PART 3 - EXECUTION

3.1 EXAMINATION

- .1 Examine conditions, substrates and work to receive work of this Section.

- .2 Verification of Conditions: verify conditions of substrates previously installed under other Sections or Contracts are acceptable for carpet tile installation in accordance with manufacturer's written instructions.
 - .1 Inform Departmental Representative of unacceptable conditions immediately upon discovery.
 - .2 Proceed with installation only after unacceptable conditions have been remedied and after receipt of written approval to proceed from Departmental Representative.

PREPARATION

- .1 Thoroughly clean all surfaces prior to installation of built-in appliances.

- .2 Prepare surfaces using the methods recommended by manufacturer to achieve the best result for the substrate.

3.2 INSTALLATION

- .1 Assemble appliances. Trim and install in accordance with appliance manufacturers' written installation instructions and the following:
 - .1 Securely mount to substrate.

- .1 (continued)
 - .2 Install appliances plumb, level and in proper relationship to adjacent construction.
 - .3 Connect appliances to building utility, supply and waste systems as applicable.
 - .4 Test run each appliance to test for proper functioning. Adjust until proper operation is achieved.
- .2 Instruct facility staff, designated by Departmental Representative, in the correct operation of each appliance.

3.3 CLEANING

- .1 Clean in accordance with Section 01 74 11 – Cleaning.
- .2 Clean and remove all adhesive tape markings, fingerprints, dust and debris and other deleterious markings.
 - .1 Use cleaning methods and cleaners recommended by appliance manufacturers.
 - .2 Do not use abrasive or corrosive cleaners on glass parts.

3.4 PROTECTION

- .1 Protect new appliances from damage during construction.
- .2 If necessary, install protective wrapping over appliances to ensure no damage takes place. Remove protective wrapping at building hand-over.

3.5 SCHEDULE

- .1 Supply and install new appliances in following rooms:
 - .1 Staff Room (A112):
 - 1 - Top-freezer Refrigerator.
 - 1 - Microwave.
 - .2 Kitchen (C101) and Kitchen (D101) each:
 - 1 – Top-freezer Refrigerator.
 - 1 – Range.
 - 1 – Bottom-freezer Refrigerator (B/F)
 - 1 – Cook-top (B/F)
 - 1 – Wall oven (B/F)
 - 1 - Microwave.
 - .3 Kitchen (B201), Kitchen (C201) and Kitchen (D201) each:
 - 2 – Top-freezer Refrigerators.
 - 2 – Ranges.
 - 1 - Microwave.
 - .4 Laundry (C114), D(114), (B214), (C214) and (D214) each:
 - 1 – Front load washer.
 - 1 – Front load dryer.
 - 1 – Upright Freezer.

END OF SECTION