

PART 1 – GENERAL

1.1

Range of works

None limitative list of works for this section:

1. The supply and installation and metal stud framing for walls and ceilings in accordance with manufacturer's instructions and in accordance with Part 4 of the National Building Code of Canada 2010.
2. Coordination of engineering work to fix electromechanical elements in walls and ceilings in accordance with manufacturer's instructions and in accordance with Part 4 of the National Building Code of Canada 2010.

1.2

Related works

1. Steel doors and frames Section 08 11 14E
2. Gypsum panels Section 09 21 16E
3. Engineering divisions, see plans and specifications for structural, mechanical and electrical

1.3

Scheduling

1. Work carried out in two phases, see drawings limits.
2. Scheduling, see section 01 32 18E and directive Ministerial representative.
3. The place of work is within an occupied building.

1.4

Guarantee

1. Provide a certificate of guarantee, signed and issued on behalf of the Ministerial representative, stating that all the works in this section are warranted against defects for a period of five (5) years from the date of signature of the certificate of provisional acceptance work. Comply with section 01 78 00E.

PART 2 – PRODUCTS

2.1

Materials

1. None supporting framing made of framing sections, "U" shape: as per ASTM C645-83 standards; posts 32 x 92mm (1¼" x 3 5/8") and 32 x 41mm (1 ¼" x 1 ½"), hot immersion laminated and galvanized steel 0.91mm (cal 20, 0.0312") thick; posts must be made so gypsum panel can be screwed. They must have openings for pipe work and be half perforated at an interval of 460 mm (18").
 1. Stud 1.6mm thick. (16 gauge) at 300mm c / c in some places, see drawings
2. Top plate, bottom girts and plate: as per ASTM C645-83 standard, proper width for post dimensions, same caliber as posts with 32 mm (1¼") high flange for bottom plate and 52mm (2") high flange for top plate.
 1. Top plate, girts and bottom rail 1.6 mm thick (16 gauge) with partitions made of 1.6 mm thick timber, see drawings.
3. Metallic furring, hat shaped galvanized steel gauge 20, section 22mm (7/8") thick and 68mm (2 5/8") large, if not stated otherwise on drawings.
4. Galvanized steel flexible cleat, galvanized steel section, cal 25, 12mm (½") thick x

67mm large, reference RC-1 from CGC.

5. Insulating strips: waterproof, self-adhesive on one face of acoustical rubber strip sealer, 3mm thick x 1 mm large.
6. Acoustical insulation: for metallic wall framing made of mineral fiber 75mm thick, such as ROXUL AFB from ROXUL or approved equivalent.
7. Polyefine foam extrusion with non-absorbing envelope, reference: ETAFOAM.
8. Cold rolled steel section for suspended gypsum ceiling; 38 x 19mm, 1.2mm thick, "U" shape, installed at 1200mm C/C maximum.
9. Galvanized and annealed mild steel suspension wire, 2.6mm diameter at 1200mm C/C maximum.
10. Load-bearing and reinforcing elements with heavy-gauge metal studs. See plans and details for description. These elements mainly involve the posts on either side of the openings, as well as the lintels.

PART 3 – WORK

3.1 Partitions mounting

1. Install top and bottom plates on floor and ceiling, align with precision and fix them at a maximum interval of 610mm (24").
2. Install foam strip under upper, lower and lateral plates of partitions adjacent to concrete construction.
3. Install vertical posts at interval of 406mm (16") (some at 300mm c / c, see drawings) and at 52mm (2") at the most from wall intersections and on each side of openings and angles. Fix post so they ensure rigidity of structure as per manufacturer instruction.
4. At mounting stage, maximal admissible gap is of 1:1000.
5. Fasten post to wall plates by crimping.
6. Coordinate installation of posts with installation or pipe works for various services. Install posts so openings are well aligned.
7. Coordinate installation of posts with installation of door and window frames and other supports or anchoring devices planned for required works in other sections.
8. Double up posts (on the whole height of the room) on each side of openings when width is higher than interval for posts. Assemble doubled up posts, while leaving a space of 52mm (2"); to do this, use clips or other approved anchoring device, placed besides attach stubs structure.
9. At openings, install strong, thick single steel posts for jambs.
10. Install wall plates over door and window openings, under window sills and lateral openings to be able to fix intermediate posts. Fix wall plates to each end of posts as per manufacturer instructions. Install post placed over and under openings, spacing being the same as for posts forming wall structure and using same method of fixation.
11. Install furring sections around openings of building and around built-in material,

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cupboards and access panels. Prolong furring in reveals. Inquire about required space and clearing from material supplier.

12. Install posts or furring sections 38mm (1½") between main posts to allow anchorage of sanitary appliances, suspended to metallic partitions, such as wash basin, washroom accessories and other sanitary appliances, including supporting rod, and towel bars.
13. Leave a space under wall plates and supporting slabs so structure weight is not transmitted to the posts. Install upper winged wall plates 52mm (2"). Make a sliding joint for double wall plates as indicated.
14. Install continuous insulating plates for posts being in contact with surfaces that are not insulated.
15. For all partitions, install acoustical insulation respecting manufacturer conditions to maximize system efficiency.

3.2 Suspended gypsum ceiling mounting

1. Install ceiling's "U" shape trim at 1200mm C/C maximum by using suspension wire at 1200mm maximum, all trims must be leveled. All wire ties are to be three tight turns around itself within 75mm according to ASTM C636. Installation tolerance is 3mm over 3.5m.
2. Install metal furring perpendicularly to "U" shape trim at 400mm C/C maximum.
3. All openings for access door, lighting devices, diffusers, grids or any other element crossing ceiling must be framed with trims and furring.

3.3 Fixing partitions, ceilings and equipment

1. Place the frame and metal studs for walls and ceilings in accordance with manufacturer's instructions and in accordance with Part 4 of the National Building Code of Canada 2010, especially against earthquakes.
2. Coordinate the work of this section with engineering to determine the electromechanical elements in walls and ceilings in accordance with manufacturer's instructions and in accordance with Part 4 of the National Building Code of Canada 2010, especially against earthquakes.

***** END *****