

**Part 1            General**

**1.1                RELATED SECTIONS**

- .1        Section 01 33 00 - Submittal Procedures.
- .2        Section 01 77 00 - Closeout Procedures.

**1.2                REFERENCES**

- .1        American Society for Testing and Materials (ASTM)
  - .1        ASTM E1264-08e1, Classification for Acoustical Ceiling Products.
- .2        Canadian General Standards Board (CGSB)
  - .1        CAN/CGSB-92.1-M89, Sound Absorptive Prefabricated Acoustical Units.
- .3        Canadian Standards Association (CSA)
  - .1        CSA B111-1974(R2003), Wire Nails, Spikes and Staples.
- .4        Underwriters Laboratories of Canada (ULC)
  - .1        CAN/ULC-S102-10, Surface Burning Characteristics of Building Materials and Assemblies.

**1.3                SAMPLES**

- .1        Submit samples in accordance with Section 01 33 00 - Submittal Procedures.
- .2        Submit full size sample of each type acoustical units.

**1.4                QUALITY ASSURANCE**

- .1        Contractor shall have a minimum of five years proven satisfactory experience. Provide a list of last three comparable jobs including, job name and location, specifying authority, and project manager.
- .2        Qualified journeymen who have a "Tradesman Qualification Certificate of Proficiency" shall be engaged in repainting work. Apprentices may be employed provided they work under the direct supervision of a qualified journeyman in accordance with applicable trade regulations.

**1.5                REGULATORY REQUIREMENTS**

- .1        Fire-resistance rated floor/ceiling and roof/ceiling assembly: certified by a Canadian Certification Organization accredited by Standards Council of Canada.

**1.6                MOCK-UP**

- .1        Construct mock-up 3 m<sup>2</sup> minimum of acoustical tile ceiling including one corner.
- .2        Construct mock-up where directed.

- .3 Allow 24 hours for inspection of mock-up by Departmental Representative before proceeding with ceiling work.
- .4 When accepted, mock-up will demonstrate minimum standard for this work. Mock-up may remain as part of the finished work.

## **1.7 ENVIRONMENTAL REQUIREMENTS**

- .1 Permit wet work to dry before commencement of installation.
- .2 Maintain uniform minimum temperature of 15<sup>0</sup>C and humidity of 20 - 40% before and during installation.
- .3 Store materials in work area 48 hours prior to installation.

## **1.8 EXTRA MATERIALS**

- .1 Provide 1 box of acoustic units.
- .2 Extra materials to be from same production run as installed materials.
- .3 Clearly identify each type of acoustic unit, including colour and texture.
- .4 Deliver to Departmental Representative upon completion of the work of this section.
- .5 Store where directed by Departmental Representative.

## **Part 2 Products**

### **2.1 MATERIALS**

- .1 Acoustic units for suspended ceiling system: to CAN/CGSB-92.1.
  - .1 Type, size and pattern – as approved by Departmental Representative.
  - .2 Edge type – as approved by Departmental Representative.
  - .3 Colour - white.
  - .4 Fire-resistance – as approved by Departmental Representative.
- .2 Adhesive: low VOC type recommended by acoustic unit manufacturer.
- .3 Staples, nails and screws: to CSA B111 non-corrosive finish as recommended by acoustic unit manufacturer.
- .4 Spacers: galvanized wire acoustical media supports, crimped and welded.
- .5 Hold down clips: purpose made clips to secure tile to suspension system, approved for use in fire-rated systems.

**Part 3 Execution**

**3.1 EXAMINATION**

- .1 Do not install acoustical panels and tiles until work above ceiling has been inspected by Departmental Representative.

**3.2 INSTALLATION**

- .1 Install acoustical panels and tiles in ceiling suspension system.
- .2 In fire rated ceiling systems, secure lay-in panels with hold-down clips and protect over light fixtures, diffusers, air return grilles and other appurtenances according to Certification Organizations design requirements.

**3.3 APPLICATION**

- .1 Install acoustical units to match existing ceiling pattern or as directed by Departmental Representative.
- .2 Scribe acoustic units to fit adjacent work. Butt joints tight, terminate edges with moulding.

**3.4 INTERFACE WITH OTHER WORK**

- .1 Co-ordinate ceiling work to accommodate components of other sections, such as light fixtures, diffusers, speakers, sprinkler heads, to be built into acoustical ceiling components.

**END OF SECTION**