

PART 1 – GENERAL

1.1	Non limitative list:	
Range of work	.1 <u>Existing ceilings:</u> Resettlement in certain places of acoustical tiles recovered Supply and installation of new tiles identical to the existing one, according to the missing quantities.	
	.2 <u>New ceilings:</u> Supply and installation of new acoustical tiles in the new ceilings in accordance with manufacturer's instructions, standards and in accordance with Part 4 of the National Building Code 2010.	
1.2	.1 Suspension frame for acoustical ceilings	Division 09 22 27E
Related works	.2 Trimmings for built-in mechanical appliances	See engineering
	.3 Trimmings for built-in electrical appliances	See engineering
1.3	.1 CAN/CGSB-92.1, Prefabricated acoustical components.	
Reference standards	.2 CSA B111, Wire Nails, Spikes and Staples.	
	.3 CAN4-S102, Standard trial methods – Superficial combustion characteristics of building materials and their assembly.	
	.4 ASTM C635-04, Standard Specifications for Manufacture, Performance, and Testing of Metal Suspension Systems for Acoustical Tile and Lay-In Panel Ceilings.	
	.5 ASTM C636-04, Standard Practice for Installation of Metal Ceiling Suspension Systems for Acoustical Tile and Lay-In Panels.	
	.6 ASTM E580-06, Standard practice for application of ceiling suspension systems for acoustical tile and lay-in panels in areas requiring seismic restraint.	
1.4	.1 Submit two (2) samples, 150mm per 150mm, of each type of acoustical components.	
Samples		
1.5	.1 Let work, releasing humidity, dry out before beginning the works.	
Conditions for implementation	.2 Before and during work, maintain, in the room where work is to be done, a constant temperature of at least 15°C and a relative humidity between 20 and 40%.	
	.3 For at least 48 hours before using the material, store them in room where work is to be done.	
1.6	1. Work carried out in two phases, see drawings limits.	
Scheduling	2. Scheduling, see section 01 32 18E and directive Ministerial representative.	
	3. The place of work is within an occupied building.	

1.7
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 **Existing ceilings:** Recovered tiles and / or new to "level out" existing ceilings: Identical to existing (check locally), 750 mm x 750 mm x thickness required.
- .2 **New ceilings:** Acoustic tiles to "build" new ceilings: Model OPTIMA 3159 series of Armstrong, 610 mm x 610 mm x 38mm, fiberglass acoustic membrane Durabrite, square edges.
- .3 Unless otherwise specified, new and reclaimed tiles must be cut manually.
- .4 Adhesive: recommended type of adhesive by manufacturer of acoustical components.
- .5 Staples, nails and screws: as per ACNOR B111 standard, anticorrosive finishes, as per manufacturer recommendations for acoustical components.
- .6 Polyethylene: as per CAN2-51.33 standard, type 2, 0,15 mm thick.

PART 3 – WORK

3.1
General

- .1 Examine ceilings plans before installation of acoustical tiles.
- .2 It is forbidden to install acoustical panels and tiles before inspection by Ministerial representative for installations that will be hidden in the ceiling.
- .3 Coordinate ceiling mounting work with installer of electrical lighting appliance, distributors, loudspeakers and heads of extinguishers that are to be installed in acoustical ceiling.
- .4 Install fixation staples where indicated on the drawings.
- .5 Make sure that all acoustical tiles are free from defects, scratches, stains, discoloration, etc. and replace, if need be.

3.2
Recovery, adjustment and
resettlement (modified existing
ceilings)

- .1 Level out existing acoustic ceilings, where required and indicated in the drawings:
 - a. Recover existing tile, store them for work.
 - b. Before reinstalling, sort and remove those tiles stained and damaged that can not be reused.
 - c. Cut retrieved tiles according to the modified frame.
 - d. On recovered tiles, bevel the edges of cut tiles in place as existing. Use the appropriate tools.

- e. Lay the tiles in the modified frame, such as existing. Adjust.
- f. If the amounts recovered are insufficient, supply and install new tiles identical to the existing ones, to complete the work.

3.3
Components to be installed
on suspension frame (new
ceilings)

- .1 Construct new suspended acoustical ceilings in other locations where indicated on drawings:
 - a. Install acoustical panels and tiles on suspension frame in accordance with the manufacturer's instructions, standards and in accordance with Part 4 of the National Building Code 2010.
 - b. Follow the manufacturer's recommendations with regard to the applicable seismic zone. **(Category D of the IBC, for the purpose of submission).**
 - c. Coordinate this work with those of **section 09 22 27E**.

***** End *****