

PART 1 - GENERAL

1.1 SECTION INCLUDES

- .1 Grilles and supply, return and exhaust registers, diffusers, and residential and commercial linear grilles.

1.2 RELATED SECTIONS

- .1 Section 21 00 00/26 00 00 – Specific Conditions – Mechanical/Electrical.

1.3 REFERENCES

- .1 Unless otherwise indicated, all the works must be done in accordance with the latest edition of the Quebec Construction Code (QCC).
- .2 Furthermore, works must be carried out in accordance with any other code or standard having jurisdiction, as per the latest edition, including, but not limited to:
 - .1 National Fire Protection Association (NFPA).
 - .1 NFPA 90A, Standard for the Installation of Air-Conditioning and Ventilating Systems.

1.4 SUBMITTALS

- .1 Submit required documents and samples in accordance with Section 21 00 00/26 00 00 – Specific Conditions – Mechanical/Electrical.
- .2 Product data and shop drawings:
 - .1 Submit product data and shop drawings as indicated.
 - .2 Product data and shop drawings to include:
 - .1 Capacity;
 - .2 Throw and terminal velocity;
 - .3 Noise criteria;
 - .4 Pressure drop;
 - .5 Neck velocity.

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.3 Certificates:

- .1 Submit certificates signed by manufacturer certifying that products, materials and equipment comply with specified performance characteristics and physical properties.

.4 Instructions:

- .1 Submit manufacturer's installation instructions.

1.5 CLOSEOUT SUBMITTALS

- .1 Submit all required closeout submittals and integrate them into the "Operating and Maintenance Manual", according to Section 21 00 00/26 00 00 – Specific Conditions – Mechanical/Electrical.

.2 Maintenance and spare parts:

- .1 Provide maintenance and spare parts as indicated.
- .2 Include:
 - .1 Keys for regulating air flow;
 - .2 Keys for air flow pattern adjustment.

1.6 RELIABILITY OF TECHNICAL DATA

- .1 Technical data taken from manufacturers' catalogues and literature must be reliable, based on results of tests done by the manufacturers themselves or on their behalf by independent laboratories that make it possible to certify compliance of the components with requirements contained in existing codes and standards.

PART 2 - PRODUCTS

2.1 GENERAL

- .1 Standard products meeting requirements regarding air flow, pressure loss, air terminal velocity, range, noise level and velocity at maximum narrowing (clamp) and exit points.
- .2 Where grilles, registers and diffusers pass through firebreak partitions, they must be equipped with steel sleeves attached to the framework, as per NFPA Standard 90A.
- .3 Casing:

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- .1 Steel framework: steel primed, pressed, cold laminated with apparent joints welded and mitred joints at corners.
- .2 Aluminum framework: extruded aluminum, satin finish with mechanical fasteners and mitred joints at corners.
- .3 Sealing trim surrounding casing.
- .4 Plasterboard framework: to hold structures in place when being installed in a plaster or drywall partition or wall.
- .5 Hidden attach system.
- .6 Characteristics: as per indications and based on the table of diffusers, registers and grilles shown on the plan.
- .7 Finishes and color: According to Architect.
- .8 Acceptable products: E.H. Price; Titus; Nailor; Anemostat; Airvector; Tuttle & Bailey.

2.2 PREFABRICATED COMPONENTS

- .1 Grilles and registers of same generic type must be products of one manufacturer.

PART 3 - EXECUTION

3.1 MANUFACTURER'S INSTRUCTIONS

- .1 Compliance: Comply with manufacturer's written recommendations or specifications, including product technical bulletins, handling, storage and installation instructions, and datasheets.

3.2 INSTALLATION

- .1 Install grilles, registers and diffusers according to manufacturer's instructions.
- .2 Install with flat head cadmium plated screws in countersunk holes, where fastenings are visible.
- .3 Bolt diffusers and grids located in the gymnasium and other playing rooms. Install a security chain for each grid and diffuser.
- .4 For double-deflection grids, make sure the blades are set to the required orientation.

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- .5 Install balancing dampers with each grid and diffuser.

END OF SECTION

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