Group Dion, Quebec / Canada

Photo: Matrix Energy

Architectural integration of solar thermal energy systems
Group Dion
Office building with solar collectors integrated in the facade

**PROJECT**

90 m² solar collectors are integrated in the facade of Group Dion's new three-storey office building, providing space heating.

Photo: Matrix Energy

Architectural integration of solar thermal energy systems
Key figures

- 2 800 m² effective area
- 90 m² solar collector
- Air volume supplied: 5000 CFM
- Energy Savings: 247 GJ
- Avoided CO2 emissions: 12 tonnes annually

Solar collector / Heating system
MatrixAir TR (Transpired) solar collector

This transpired, solar fresh air heating system demonstrates operating efficiencies upwards of 70% with paybacks within five years on most new buildings. The perforated metal absorber is used to draw in heated fresh air off the surface of south-facing walls, where it is then distributed throughout the building as pre-heated ventilation air.

Photo: Matrix Energy
GALLERY

PHOTOS;
Matrix Energy

- Built/Completion: 2010
- Client: Dion
- Architect: Campanella & Associés architectes
- Design:
- Address/Location: Chemin Côte Nord Boisbriand, Quebec
- Type of project: Commercial building

Read more: http://www.campanella.ca/