

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 Dions 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 payback's 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/>

