



**Project: Robert Thibert Warehouse
Châteauguay, QC, phase #1**

Distribution Center RT is a firm that distributes auto parts. The building has an area of 126 000 square feet of warehouse space and 12 000 square feet of office space. The whole building is heated and cooled thanks to geothermal energy.

The geothermic field is composed of 14 560 feet of drilling in 56 wells. The warehouse is entirely heated with radiant floor. This radiant floor operates in cooling mode in the summer time and allows the load of the geothermic fields while giving, without any over costs, a comfortable work environment as well as a tempered storage space.

This passive re-load of the geothermic field allows a reduction of the geothermic field as well as higher performances during the heating period. The offices are for most of them heated and cooled by a network of heat pumps. The control system is entirely centralised and is user friendly.

In order to deal with the delay of realisation, the entire energy production system (mechanical room) was pre-mounted in factory before being delivered onsite. This method allows realising a gain of productivity while assuring a perfect quality of the mechanism.

The harmonious integration of the geothermal systems allowed making energy savings and a good energy management.

Pre-mounting after 30 minutes



Pre-mounting after 6 hours



Complete system after 9 hours



Geo-Energie inc.
Ingénierie, design