

INDUSTRY NEWSFLASH

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CLARIFICATION ON HEAT LOSS CALCULATIONS FOR GEOEXCHANGE SYSTEMS

In order to certify a geoechange system, CGC must review the relevant building heat loss calculations. This is clearly stated in the instructions page of the CGC application form for geoechange system certification:

In addition to this completed questionnaire, the request for certification must also include the following documents:

1. ***A clearly legible copy of the CGC GeoExchange Drilling Report, or a water well record or well construction report as required by provincial regulations.***
2. ***A clearly legible copy of the site survey worksheet completed with final details and dimensions of the complete system. Please consult CSA 448, Annex B for a template.***
3. ***A clearly legible copy of the heat loss calculations for this system.***
4. ***A copy of the municipal permit for work and renovation***

In addition, many contractors are confusing the heat load line of design softwares such as GeoDesigner, GeoLink Design Studio, GS2000, GLD or any other design software with a complete heat loss analysis. The heat load number stated in the above mentioned softwares is manually entered data that the contractor has attributed to the building. This is not sufficient evidence that proper heat loss calculations have been performed.

According to standard C-448, article 10.2:

“The heating and/or cooling load of the structure shall be calculated in accordance with CSA Standard CAN/CSA-F280 or a software program based on CSA Standard CAN/CSA-F280, and a copy shall be provided to the owner upon completion of the installation. The installing contractor shall assume responsibility for ensuring that any software program utilized shall provide results in accordance with CSA Standard CAN/CSA-F280.”

It is therefore essential that contractors provide the above mentioned heat load calculation in order for CGC staff to validate any submission for system certification. Municipal inspectors and building officials will likely request a full heat loss / heat gain in the course of inspection, per the National Building Code.

A **summary report of the heat loss calculation** shall accompany the application for system certification. The full report shall be given to the customer.

The Canadian GeoExchange™ Coalition acts as the industry catalyst to unite private and public sector stakeholders, and to expand the market for geoechange™ technology in Canada. As the nexus of information, training, certification, industry standards and public awareness, CGC works with stakeholders to build the necessary infrastructure to foster the growth of the Canadian geoechange™ industry. For more information, visit www.geo-exchange.ca

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