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SOLIFLEX TYPE 3, THE IDEAL FOUNDATION DRAIN FOR AN EFFICIENT INSTALLATION

Foundation and basement drainage innovation: a flexible drain with smooth interior.

Anxious to have the best products for the construction of its new residence at Saint-Antonin, Mr. Bernard Ouellet, manager of the Coop Agriscar - a Soleno products retailer - opted for the use of the new flexible drain with smooth interior SoliFlex Type 3 for foundation drainage. Installation of the SoliFlex drain was a first for Construction Jeannot Ouellet, a formwork contractor from Saint-Antonin. The benefits of this new drain with smooth interior, which is easy to clean and promotes rapid water evacuation, are one of the features that motivated the selection of this new product offered by Soleno.

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THE CONTEXT

The installation of a building drainage system at the foot of the foundations allows you to channel and evacuate the excess of water in order to avoid stagnation of the captured water and prevent damage to the foundation. Formwork contractors have many options when it comes to perforated drains, like high-density polyethylene (HDPE) drains and traditional perforated rigid drains. Passionate retailer of Soleno's HDPE products, Bernard Ouellet opted instead to use the new SoliFlex Type 3 flexible drain for his new home foundations in Saint-Antonin, Quebec.

THE SOLUTION

Jeannot Ouellet, owner of Construction Jeannot Ouellet, therefore proceeded to the installation of about 60 m (197 ft) of SoliFlex Type 3 drain of 100 mm (4 in) in diameter. He also installed a 100 mm (4 in) diameter access chimney, connected to the foundation drain, as well as some couplers and accessories, at the footings of the new house foundations. A TX-80 separation geotextile was put in place to cover the clean stone covering the foundation drain.

THE BENEFITS

Familiar with the installation of corrugated HDPE drain, contractor Jeannot Ouellet proceeded with the installation of the drainage system by alternating laying of the SoliFlex Type 3 drain and backfilling of the latter, all in less than a half-day. Mr. Ouellet mentions that *"The installation of the SoliFlex is simple and quick, even if it is a little more rigid than a traditional corrugated drain; with its smooth interior, it is clearly more efficient"*.

Installation of the SoliFlex drain is greatly facilitated by its double wall composition, which retains the flexibility of traditional corrugated drains that allows for 90 degrees turns with a tight radius of curvature. In addition, its smooth interior wall retains the discharge speed of a rigid drain, offering a better Manning coefficient (0.012) than a standard corrugated drain, minimizing sediment accumulation of facilitating its cleaning. Compliant with the National Building Code, the SoliFlex drain also meets the requirements of the BNQ 3624-115 standard, thus ensuring the quality of the products and peace of mind for owners like Bernard Ouellet. In addition, the use of the SoliFlex drain allows you to reduce the costs related to conventional rigid perforated drain installation. In fact, in addition to being more economic, the SoliFlex flexible drain requires less connections than this type of drain. The owner, Bernard Ouellet, stresses that he *"installed the best product on the market."*

Even if the installation of the drainage access chimney was *"not necessary, I preferred to have it installed, because should any problem occur, it offers me one more option"* he says. Installation of this type of chimney will allow him to have constant access to its drainage system, to validate its status or the presence of obstruction, without resorting to excavation to access its system. If needed, or during



regular maintenance, a visual inspection by camera made easy by the green interior of SoliFlex and a pressured water cleaning will dilute the possible accumulation of ferrous deposits inside the drainage system, without damaging the surrounding soil and landscaping. Pre-assembled in the factory, the drainage access chimney is easy to install and ensures the system's sustainability.



The realization of this project was made possible thanks to: the contractor [Construction Jeannot Ouellet](#).

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