

Conduit Connections

Electrical Case Study

SceptaCon™ Raceway Speeds Installation



SceptaCon™

Product: SceptaCon™

Length: Two 60' lengths

Contractor:
Christian Clemont Electrique

Municipality: Mercier, QC

- A townhouse complex required the connection of electrical services across a main street
- SceptaCon was chosen because of its strength, durability, and the ability to avoid causing traffic disruptions (higher costs, time consuming)

A townhouse complex recently built on Edouard-Laberge Street in Mercier, QC offered a challenge similar to that of any building project in a busy subdivision: ensuring that installation of services doesn't interrupt traffic and require several days of detours. The electrical services for these townhouses needed to be connected on the opposite side of the main street leading into the subdivision. As a result of this, creating traffic diversions and digging a trench for the cables would be expensive and time consuming.

Instead of digging a trench for two lines of cable, the engineer with Hydro Quebec opted to use SceptaCon, a trenchless, PVC raceway for electrical and telecommunication cables. Contractors often use conduit made of high-density polyethylene (HDPE), but there were concerns that the HDPE product would not maintain its shape over time. SceptaCon is made from Schedule 40 Rigid PVC for strength and durability and was therefore the product of choice.

“Everything went well. Very easy to install. I will work with this product again if needed.”

Christian Clemont Electrique,
Contractor



Two 60-foot lengths of SceptaCon raceway were installed while traffic still flowed

While traffic still flowed, a directional drill was used to drill a channel under the street. As each 10-foot section of SceptaCon was pulled back through the channel, it was attached to another section until both 60-foot lengths were installed. The spline-locking system ensured that the raceway would not pull apart in the borehole. SceptaCon's pre-installed, pre-lubricated gaskets also created a water-tight seal that would resist any damage that rain and run-off could have on the installed pipe. Instead of days of inconvenience, two 60-foot lengths of SceptaCon raceway were installed in approximately two hours. The contractor, Christian Clemont Electrique, stated, "Everything went well. Very easy to install. I will work with this product again if needed." Christian Leblanc from Infrastructel agreed, "Great product."

SceptaCon has been used under the St. Lawrence River, to connect light standards along the Lachine Canal, and even to cross under a small lake. It is especially useful when dealing with environmentally sensitive areas, historical landmarks, road and highway crossings, urban areas, street and traffic lights, allowing the work to be done with little disruption to either the traffic or to the aesthetics of the location.

SceptaCon is made of PVC and links seamlessly to any existing PVC conduits so that utilities can use PVC throughout their entire electrical system. SceptaCon comes in diameters from 2" to 6" and in 10' and 20' lengths. Because SceptaCon is made to the same high standards as IPEX's Scepter Rigid PVC Conduit, contractors and electrical utilities can be assured of the same level of quality – above ground and below. SceptaCon delivers the performance, reliability and long life you expect from IPEX products.