DOUBLE CONTAINMENT WHERE DO I START?

Why do we need Double Containment? It's the law.

Canadian Environmental Protection Act, 1999 (CEPA)

In 2008, under CEPA, regulations concerning storage tank systems for petroleum-based products were introduced, requiring any associated underground piping transporting these products to be double contained if the storage tank meets the criteria outlined in the regulations.

 SOR/2008-197 — Storage Tank Systems for Petroleum Products and Allied Petroleum Products Regulations

National Fire Code of Canada (NFC)

The NFC states that all underground piping systems used for the transportation of flammable and combustible liquids must be double contained for buildings and facilities that fall under the jurisdiction of the code.

 National Fire Code of Canada 2020, Section 4.5. Piping and Transfer Systems – 4.5.6.1. Construction

Leak Detection

In addition to double contained underground piping, monitoring of the interstitial space (i.e. the space between the inner and outer pipe) is also required under these federal regulations/codes.

National Fire Code of Canada 2020, Table 4.4.1.2.-C –
 Leak Detection Testing and Monitoring of Underground Piping Systems



Double containment piping systems provide safe transport of fluid in critical areas. Should a leak occur, People, Equipment, and Valuable Property will be protected from possible harm or damage. • Risk/Insurance • Personnel Safety • Environment



Federally Mandated Applications

Best Practice Applications

Chemical Plants • Laboratories
 • Healthcare/Hospital Use • Laboratories • High-Tech & Data Storage Environments (Network & Server Rooms etc.)
 • Fuel Systems for Emergency Generators
 • Public areas (Museums, Libraries, Theaters, and Restaurants) • Historical Sites • Residential Buildings • and more...

How do we DESIGN Double Containment?

Material Selection

 Chemical Compatibility

Pressure
 Temperature

Thermal Expansion and Contraction **3** System Layout

Accomodate for size of components

How do we MONITOR Double Containment?

2

ABOVE GROUND APPLICATION: Best Practice
Visual leak detection • Electronic leak detection

Is my system ABOVE

OR

BELOW ground? BELOW GROUND APPLICATION*: Federally Mandated

Visual leak detection
 Electronic leak detection

I'm ready to specify **Double Containment!**

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