Project Profile

Paul Kane High School



As a naturally occurring radioactive gas, radon gas is odourless and invisible, moving up from the soil through cracks in a foundation or slab. Via lungcancercanada.ca, it is estimated that 16 per cent of lung cancer deaths are related to radon exposure in the home, and radon exposure is the leading cause of lung cancer in non-smokers. Radon mitigation is important for healthy and comfortable homes and buildings.

To address this concern and danger, new buildings require construction to have radon mitigation in place. Plasti-Fab's Radon Guard[®] Insulation product is a key component in mitigating radon gas in institutional buildings and is the code compliant one-to-one replacement for the code-required 100 mm thick layer of granular material.

Radon Guard[®] Insulation is being used to protect the new addition at Paul Kane High School, in St. Albert, that was commissioned by Alberta Infrastructure. Radon Guard[®] Insulation was sold to Radon Environmental Management, which designed and installed the complete radon mitigation system. Radon Environmental Management is certified by C-NRPP and is a sub-contractor to the general contractor on this project.

Radon Guard[®] Insulation is superior to gravel for radon mitigation because gravel can clog up and prevent the mitigation system from properly exhausting and defending against radon gas. As well, Radon Guard[®] Insulation can be installed year-round without the need for heavy equipment.

More than 24,000 ft² has been covered with Radon Guard[®] Insulation of the high school's footprint.



Plasti-Fab helps create lasting communities by supplying Expanded Polystyrene (EPS) products to construction and civil infrastructure projects. As the only vertically-integrated EPS company in North America, we are leading the industry with solutions that are healthy for people, communities, and the planet.

