



## CASE STUDY

### Canadian Space Agency (CSA) David Florida Laboratory

**Location:** Ottawa, ON, Canada

**Started:** 2008

**Membrane:** Modified bitumen

**Total square feet:** 58,500

**Features:** 14 testing areas on multiple roof levels

**Status:** Maintenance test every two years



The David Florida Laboratory is a world-class spacecraft assembly, integration and testing centre. As one of the few labs capable of simulating the enormous stresses of a rocket launch and the extreme temperatures of space flight, it is in high demand by aerospace and telecommunications companies to qualify space bound equipment.

In 2008, ILD was invited to test the Laboratory's newly installed roof system. Flood testing had originally been suggested, but the CSA worried about water flowing into the building. Using our non-invasive EFVM® technology, ILD detected four breaches and documented the locations for repair.

Based on these results, CSA hired ILD to retest every two years for proper maintenance during the roof's 10-year warranty period. In 2012, ILD located one breach, and in 2014, two. Finding and repairing these minute defects provided assurance to CSA, as a leak left undetected could damage a space satellite or test article worth up to half a billion dollars. In a mission critical operation like the David Florida Laboratory, that was a risk too high to take.

**TRUSTED BY THE BEST.**

Toll Free: 1.866.282.5325 [info@leak-detection.com](mailto:info@leak-detection.com)



[leak-detection.com](http://leak-detection.com)