

# LASERCAD® CASE STUDY FLOOR MOVEMENT

## The Challenge

Our client owned a two storey plaza with retail units on the ground floor and office space above. They suspected that the ground floor slab was moving, possibly heaving because of the frost, and wanted to establish a benchmark against which to monitor the movement. They turned to Turner Drake for assistance.

## Turner Drake's Approach

This was an unusual request. However our Lasercad® Space Measurement team are well versed in measuring and certifying space to the relevant Building Owners and Managers Association's (BOMA) Standard throughout Atlantic Canada and Ontario and had already done so with this property. They pulled up the electronic copy of their as-built plans and arranged to re-inspect the building with the property manager. After touring the property they determined that the most beneficial way of monitoring floor slab movement was to measure the distance between it and the ceiling at multiple points on a four metre grid. Our Lasercad® team use laser measuring equipment accurate to within 1.5 mm and work to a closing error of just 0.5% (the industry "average" is 2%) so they are well used to precision work. They are the only space measurement service in Atlantic Canada whose work is governed by a quality system registered to the international ISO 9001 standard. They are audited annually to ensure compliance, twice by our internal audit team and once by SAI Global, our external auditor.

## Winning Results

Turner Drake furnished the client with a time dated "benchmark" plan mapping out the floor to ceiling heights on a four metre grid throughout the property.

