

## Test Results Summary

$P_{ref}$ : 0.30" (75Pa)	Allowable Leakage Rate: 0.40 CFM/ft <sup>2</sup>	Allowable Leakage: 13140 CFM
	Actual Leakage Rate: 0.39 CFM/ft <sup>2</sup>	Actual Leakage: 12883 CFM

## Executive Summary

A building enclosure test was performed at the 1813 Locust Development Building. The building consists of Cosmo as well as an empty tenant on the north side. Per the architect, these spaces form their own air barrier separate from the rest of the building. North of the empty tenant space is another empty tenant space that appears to be in disrepair. The test was performed per the 2021 International Energy Code using the ASTM E1827 methodology and NEBB Procedural Standard.

Prior to the test, the architect provided the enclosure square footage which was 32851 ft<sup>2</sup> and was used in the calculations.

Two Retrotec model 3000SR fans were used to test the air barrier and were installed in Room 100 (Vestibule).

The acceptable leakage rate is 0.40 CFM/ft<sup>2</sup> at 0.3" wc (75 Pa). During depressurization the actual leakage rate was measured as 0.39 CFM/ft<sup>2</sup> which is within tolerance. The pressurization test was performed however the results are inconclusive because the restaurant portion of the building was open for business and their operations were affecting a successful test. The pressurization tests and depressurization tests should have similar leakage rates.

Infrared images are provided below for reference of areas with noticeable leakage. Since the depressurization results passed, no action is required.



Figure 1. North side of the empty tenant space



Figure 2. North side of the empty tenant space



Figure 3. Near garage door on East side



Figure 4. Near garage door on East side