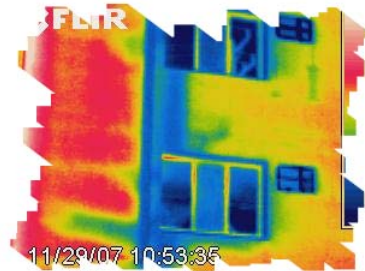
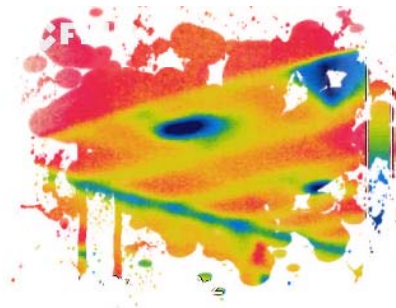




C.L.I. Group, LLC™
Cleveland, OH

Building Enclosure Cx Program



Construction defects can be the result of a design error by the architect, a manufacturing flaw, improper use of materials, lack of adherence to the blueprint by the contractor or some combination of these factors.

Diagnosing the problem can be a time consuming and expensive undertaking, The C.L.I. Group Building Enclosure Commissioning Program can reduce the owner's risk by carefully evaluating the building enclosure throughout the design and construction phases.

Consider These Figures:

- ✓ *The U.S. Department of Energy reports that up to 40% of the energy used by buildings for heating and cooling is lost due to infiltration (Pollock, 2001).*
- ✓ *"Moisture Damage Contributes to 90% of All Building and Building Material Failures" (ASHRAE)*
- ✓ *"Moisture Leading Cause of Building Problems Costing More Than \$9 Billion Annually in U.S." (ASTM)*
- ✓ *"Moisture Will Replace Asbestos as the Most Frequently Mentioned Topic in Building Litigation" (C. Gaal, NJ Investigation Commission Counsel)*

C.L.I. Group, LLC can reduce the above risks by providing the following services:

- Detailed plan & specification review

- Air & vapor barrier evaluation
- Thermal boundary assessment
- Drainage plane & cladding assessment
- Sealant evaluations
- Wall modeling to evaluate condensation potentials, thermal bridging and R-values
- Enclosure performance monitoring and data-logging
- Air infiltration testing and diagnostics

If your concerns are in an existing building our services can provide the answers you need so that you do not end up chasing the problems. For instance, many condensation problems are misdiagnosed as roof or enclosure leakage. This results in money being spent on problems that do not really exist.

If energy is your concern, consider that studies have shown that up to 40% of energy use in buildings can be attributed to air infiltration. Many building owners spend tens of thousands of dollars trying to address this through mechanical system repairs or larger systems. The fact is, proper diagnosis and corrective actions would typically lead to less repairs and smaller, more efficient systems. When evaluating the performance of any building, the integrated approach is always the most economical approach.

You wouldn't have your surgeon operate, without first diagnosing your condition. The same should be true of your building.

C.L.I. Group, LLC

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