

What is Test and Balance?

There are four major aspects of a properly performed Test and Balance:

1. Design Review
2. Installation Verification
3. Test and Balance
4. Report

Design Review

This is a review of the mechanical plans and specifications for any possible design deficiencies that would prevent the HVAC systems from operating according to the sequence of operations specified or hinder an accurate Test and Balance.

Installation Verification

The process of installation verification inspects the installation of all HVAC equipment for conformance with design intent. This service should be done after air distribution equipment is on site and ductwork installation has begun, but before the Start-up and Test and Balance phase. The installation verification process will identify and report deviations from design and provide assurance that systems are ready for Test and Balance.

Test and Balance

Test and Balance is a methodical process of field testing, measuring, adjusting, balancing and recording the performance of each device of the HVAC system until the systems perform within the intended design criteria.

Report

The Test and Balance Report is a complete record of design, preliminary and final test data. The report includes numerous equipment test sheets that all communicate pertinent data required by the National Environmental Balancing Bureau (NEBB). The reports in total aid in the understanding of how the building is operating and serve as a valuable tool to assist the maintenance department over the life of the building.

Benefits to a Properly Performed Test and Balance

- Reduced Energy Consumption
- Optimal Equipment Performance
- Improved Indoor Air Quality
- Improved Occupant Comfort
- Increased Employee Productivity
- Minimal Indoor Humidity Levels
- Reduced Equipment Failure Rates
- Reduced Maintenance Costs