



Tall Buildings



ASHRAE

RP





ASHRAE

Meeting the needs of the 21st Century city and beyond

TALL BUILDINGS

Whether it's improving the work environment in an office building for increased productivity or residential spaces for increased indoor comfort, ASHRAE Research helps engineer the world we live in, creating better indoor and outdoor environments around the globe.

This would not be possible without the individuals and organizations that have chosen to support ASHRAE's vision with their financial contributions. To continue our progress, we need your support as well. To make a donation to ASHRAE Research, please visit www.ashrae.org/contribute.



With rapid growth up, not just out, there is an increasing need for research, study and understanding of the systems and needs of buildings in excess of 300 feet (91 meters).

ASHRAE RESEARCH GOALS

- Advance the understanding of the function and operation of HVAC&R systems for improved design and performance, particularly in regard to safety
- Ensure energy use is at appropriate levels for building size, location, and use
- Understand the interplay of systems and IAQ for maximum human safety, health, and work performance
- Support the development and research to toward the requirements related to hydraulics, airflow, infiltration, thermal insulation, water vapor retarders, environmental control, fire and smoke control and maintenance.

A FEW CURRENT RESEARCH PROJECTS

- Revision of the ASHRAE HVAC Design Guide for Tall Commercial Buildings
- Measuring air tightness of Mid-and High-Rise Non-Residential Buildings
- The Effect of Lining Length on the Insertion Loss of Acoustical Duct Liner in Sheet Metal Ductwork
- Measuring, Modeling, Analysis, and Reporting Protocols for Short-term M&V of Whole Building Energy Performance
- Methods to Increase Maximum Velocity of Makeup Air for Atrium Smoke Control – CFD Study
- Literature and Product Review and Cost Benefit Analysis of Commercially Available Ozone Air Cleaning for HVAC Systems
- Establishing Benchmark Levels and Patterns of Commercial Building Hot Water Use
- Develop a Radiant System Module for the Simulation and Analysis of Spaces and Systems





ASHRAE is an international technical society that fulfills its mission of advancing heating, ventilating, air conditioning and refrigerating to serve humanity and promote a sustainable world through research, standards writing, publishing and continuing education.

Questions?

Please contact the RP Staff:
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