RWDI Expertise

RWDI is a leading 400+ person consulting engineering firm that specializes in providing wind engineering and environmental solutions to its clients—including specific floor vibration services ranging from nanotechnology to human comfort.

Since 1972, the company has helped its clients – including structural engineers, architects, facility designers, owners, developers, tenants, property and facility managers – reach their serviceability and performance-based design goals on a global scale.

RWDI's skilled team of consultants and technicians have used advanced technology and methodologies to successfully complete floor vibration projects throughout the world.
Starting Early in the Design Process has Many Benefits

Design teams have learned that RWDI’s services can be of particular advantage when engaged early in the master planning or conceptual design stage of a large building or structural project. By identifying potential floor vibration problems early in the master planning or conceptual design stages, this allows for corrective action that saves time and money. The graphic below demonstrates how RWDI helps through all stages of design.

Consultation & Assessment

As part of your design team, we consult with you on floor vibration solutions.

RWDI:
• Assesses levels of vibration using methods ranging from AISC / CISC / SCI design guidelines to advanced finite element modeling.
• Simulates foottfall performance and crowd dynamics.
• Surveys sites and existing structures using portable vibration data-acquisition equipment.
• Designs mitigation solutions.

Summary

RWDI’s specialized knowledge, capabilities, practices and advanced technical resources are used to deliver useful and understandable reports. The firm’s recommendations can lead directly and effectively to the implementation of the best floor vibration solutions.

The firm’s expert staff looks forward to working with you and your team on the next floor vibration project-wherever it may be located in the world.