

CSDA DESIGN GROUP

"Sound is an element too often forgotten when designers and owners visualize a building, but acoustics are just as important as what we can see and feel."

– Randy Waldeck, PE, LEED[®] AP, Principal of Acoustics



ARCHITECTURAL ACOUSTICS



ENVIRONMENTAL/ TRANSPORTATION NOISE



SOUND INSULATION



"CSDA has demonstrated to be quite a team player with great communication skills, professionalism, and responsiveness in assisting me in my role with implementing the noise monitoring requirements for the Universal Studios Specific Plan."

– Robert Glaser, Principal Planner, County of Los Angeles, CA



ARCHITECTURAL ACOUSTICS)))



Academic **Civic and Public Institutional** Commercial **Data Centers** Healthcare **Master Planned Communities** Mixed-Use **Performing Arts Entertainment and Leisure Places of Worship** Restaurants Single- and Multi-Family Residential Hospitality Senior Housing **Sports Facilities Student Housing**

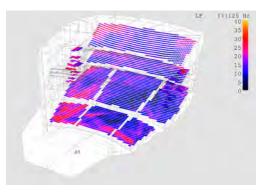


ARCHITECTURAL ACOUSTICS

CSDA carefully considers a building's location, function and aesthetics in designing acoustical solutions that are within an owner's budget. We have collaborated on new construction, expansions, restorations, and renovations for a wide range of building types, including high-performance and sustainable structures.

We provide developers, planners, schools, architects, engineers, and owners with:

- Recommendations for room shaping, acoustical finishes, and sound isolation
- Design review and acoustical input on building plans and specifications
- Coordination, calculations, and documentation for LEED acoustics credits
- Construction site visits and measurements
- Three-dimensional modeling and graphics for agency/user presentations



Interior computer model of a 2,100 seat multiuse concert hall, used to develop recommendations for acoustical treatment and room shaping.



ENVIRONMENTAL/ TRANSPORTATION NOISE

Aircraft Construction Central Plants Equipment Yards Helicopter ndustrial Facilities Rail Vehicle



ENVIRONMENTAL/TRANSPORTATION NOISE

By necessity, transportation systems are placed near population centers. The resulting noise and vibration may adversely impact the quality of life for nearby residents and the surrounding communities. Government agencies are well aware of these environmental impacts and have set regulatory compliance standards to ensure community wellbeing.

CSDA works with planners, engineers, and project managers to meet regulatory requirements for noise by providing:

- Environmental noise and vibration studies
- Noise barrier and building envelope design
- General plan noise element updates
- Noise and vibration measurements/monitoring



Three-dimensional noise model provides an accurate visual "heat map" of project noise levels





Apartments Churches Civic Institutions Community Centers Condominiums Educational Facilities Hospitality Nursing Homes Retirement Homes Single-Family Homes



SOUND INSULATION

In an effort to address noise concerns, the federal government has funded programs to retrofit impacted properties with architectural solutions aimed at achieving acceptable interior noise levels. These retrofits reduce speech interruption and sleep disturbance in homes and improve learning environments in schools. We respectfully work with each community to provide acoustical solutions that offer healthier, more comfortable environments.

We have earned a reputation for excellence in the following:

- Acoustical design and measurements
- Agency audits
- Architectural design
- Construction and contract document development
- Construction administration and inspection support

- Community outreach/collateral materials
- Data management systems
- Program management
- Technical and administrative staff support



EDUCATION

Huntington Park High School Modernization College of the Desert, Central Campus Redevelopment Madison Park Business and Art Academy

PERFORMING ARTS/CULTURAL

The Vermont Theater, Hollywood Audrey Irmas Pavilion, Wilshire Boulevard Temple Grossmont College New Performing Arts Complex

HEALTHCARE Ravenswood Family Health Center UCLA Medical Center Kidney Transplant Suite San Mateo County Medical Center

HOSPITALITY Springhill Suites Hotel, Fort Worth

Hilton Cleveland Downtown Convention Center Hotel Hyatt at 5959 Century Boulevard

MULTI-FAMILY HOUSING

88 Broadway/735 Davis Mixed-Use 333 12th Street Affordable Housing 1717 N. Bronson Avenue Apartments

TRANSPORTATION

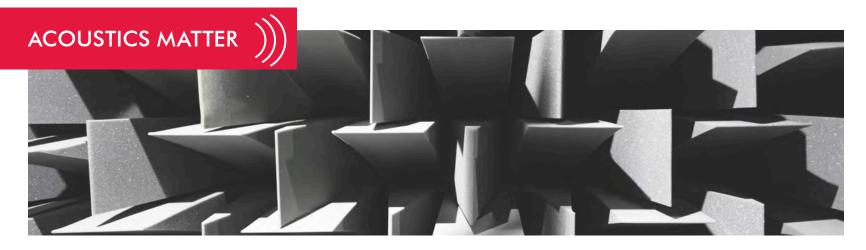
Metro Purple Line/Westside Subway Extension

Hilo International Airport (RSIP) Sound Insulation

City of Inglewood Residential Sound Insulation Program (RSIP)

District of Columbia, DOEE, DCA Airplane Noise Assessment

NOTABLE PROJECTS



Randy Waldeck, principal and founder of CSDA's acoustics practice, has traveled all over the U.S. to measure, model, analyze, and develop acoustical solutions to mitigate and control environmental, mechanical and occupant noise. A third generation engineer, Randy has been working with clients to provide sound solutions for the built environment for more than fifteen years.

ABOUT CSDA DESIGN GROUP



CSDA Design Group (CSDA) is an architectural and acoustical engineering firm with our team of professionals practicing in San Francisco and Los Angeles. Founded in 1952, we specialize in acoustics and educational facility planning and design. We are certified as an SBE (Small

Business Enterprise) with Metro and the California Department of General Services. We collaborate with clients to develop cost-effective acoustical solutions that result in healthy environments, meet regulatory requirements and community expectations.





HOW TO REACH US

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