“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 Acoustician
“CSDA’s expertise and experience in noise insulation programs around the country played a critical role in establishing the program policies and procedures and the successful coordination with the cities and homeowners. As a result, VTA was able to successfully deliver the design phase of the program.”

– Evelyn Ho, Project Manager, BART Silicon Valley Berryessa Extension - Residential Noise Insulation Program
Academic
Civic and Public Institutional
Commercial
Data Centers
Entertainment and Leisure
Healthcare
Industrial
Master Planned Communities
Mixed Use
Places of Worship
Restaurants
Retail
Single- and Multi-Family Residential
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:

• Acoustical testing, analysis, and reporting for environmental studies
• Building assessments and recommendations to meet acoustical objectives
• Design review and acoustical input on building plans and specifications
• Material and product specifications required for contract documents
• Construction site visits to confirm compliance with design intent
• Onsite acoustical measurements of existing buildings
• Three-dimensional modeling and graphics for agency/user presentations
ENVIRONMENTAL/TRANSPORTATION NOISE

- Aircraft
- Construction
- Central Plants
- Equipment Yards
- Helicopter
- Industrial 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:

- Acoustical measurements
- Architectural and acoustical design
- Environmental noise and vibration studies
- General plan noise element updates
- Noise and vibration 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
Hotels
Nursing Homes
Retirement Homes
Single-Family Homes

SOUND INSULATION
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
NOTABLE PROJECTS

360 Spear Street Data Center
San Francisco, CA

Stanford University Hospital Helipad
Palo Alto, CA

Ravenswood Family Health Center
East Palo Alto, CA

Norman Y. Mineta San Jose Intl. Airport (SJC) Acoustical Treatment Program
San Jose, CA

BART Silicon Valley Berryessa Extension
Residential Noise Insulation Program
San Jose, CA

Los Angeles World Airports (LAWA)
Residential Soundproofing Program
Los Angeles, CA

UCLA Medical Center
Kidney Transplant Suite
Los Angeles, CA

Phoenix Sky Harbor Intl. Airport (PHX)
Sound Mitigation Services
Phoenix, AZ

Stanford Linear Accelerator
Menlo Park, CA

6701 Shellmound Mixed-Use
Emeryville, CA
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 a decade.

ABOUT CSDA DESIGN GROUP

CSDA Design Group (CSDA) is an architectural and engineering firm with 45 professionals practicing in San Francisco, Los Angeles, San Diego, and Milwaukee. Founded in 1952, we specialize in acoustics and educational facility planning and design. We collaborate with clients to develop cost-effective acoustical solutions that provide healthy environments and meet regulatory requirements and community expectations.
Randy Waldeck, PE, LEED® AP
Principal Acoustician

475 Sansome Street
Suite 800
San Francisco, CA 94111

[D] 415.321.1145
[E] rwaldeck@csdadesigngroup.com

www.csdadesigngroup.com

Los Angeles
4061 Glencoe Avenue
Suite B
Marina del Rey, CA 90292
310.821.9200

San Diego
330 A Street
Suite 150
San Diego, CA 92101
619.795.4481

Milwaukee
6135 S. Jasper Avenue
Milwaukee, WI 53207
414.698.8134