

Acoustical Design Process Steps / Work-plan

Programming				
Understanding client's vision	<ul style="list-style-type: none"> • Conduct user interviews • Identify audio system needs • Perform acoustical survey, including measurements (if needed) • Determination of acoustic consultancy scope of work and area • propose acoustical building code (local/international) • Prepare acoustic proposal document 			
Schematic/ conceptual Design	Sound Insulation	Noise and Vibration Control	Room Acoustic	Audio Systems
Establishing a design criterion	Establish acoustical criteria for each adjacency types	Establish noise level criteria	Establish room acoustic criteria	Develop preliminary audio systems description
	Determine room locations and adjacencies	Identify mechanical equipment locations	Determine room volumes and shape dimensions	
	Provide outline of partitions, floors, ceilings	Provide noise and vibration control guidelines	Determine minimum percentage area of	Budget estimation for audio system
	Identify acoustic doors, windows, or floating floors		Acoustic material and absorption performance Broad discussion of room finishes	
Design Development	Sound Insulation	Noise and Vibration Control	Room Acoustic	Audio Systems
Detailing the design	Provide partition details	Perform acoustical calculations as per MEP engineer's drawings	Acoustic Review of interior designer intent	Provide preliminary locations and sizes of audio system speaker
	Provide acoustic door, window, floating floor, ceiling details		Determine acoustic material and locations	Provide schematic single line diagram of audio system
	Provide intersection detail	provide recommendations for acoustical treatment	Provide layout for acoustic material	Refine audio systems budget
	Provide layout for acoustic material	Provide duct and pipe penetration treatment details	Discuss room finish options	Submit bill of quantity of the system
Construction & tender Administration	Sound Insulation	Noise and Vibration Control	Room Acoustic	Audio Systems
Implementing the design	Prepare submittal review list	Prepare submittal review list	Prepare submittal review list	Prepare audio systems bid documents (drawings and specification)
	Review architect construction drawings and documents	Review mechanical engineer construction drawings and documents Review structural engineer construction drawings and documents	Review interior designer construction drawings and documents	
	Review architectural contractor submittal shop drawings and tender documents	Review MEP contractor submittal shop drawings and tender documents	Review Interior contractor submittal shop drawings and tender documents	
Construction process	Sound Insulation	Noise and Vibration Control	Room Acoustic	Audio Systems
Supervising the design	Perform site inspection and prepare punch list	Perform site inspection and prepare punch list	Perform site inspection and prepare punch list	Perform site inspection and prepare punch list
Post-construction	Sound Insulation	Noise and Vibration Control	Room Acoustic	Audio Systems
Assessing and conforming the design	Measure partition sound insulation performance for conformance to criteria	Measure background sound levels for conformance to criteria	Measure RT60 and other room acoustic parameters	Tune the audio system and verify speaker aim and positioning, settings, and controls
	Make recommendations if necessary to resolve problems (if any)	Make recommendations if necessary to resolve problems (if any)	Make recommendations if necessary to resolve problems (if any)	Make recommendations if necessary to resolve problems (if any)

