

SILENCERS



Silencers provides sound reduction in ducts, AHU and device outputs. In the manufacture of silencers, materials like galvanized sheet, glass wool (50 kg / m³), glass tulle, perforated sheet, etc. are using.

Silencer are manufacturing in two different types, rectangular and circular. Rectangular silencers provide more sound absorption than circular silencers

Sound pressure (dB) is determined by measuring instruments. For ventilation work, an A-weighted average is usually used. The notation of the A-weighted average unit is dBA.

You can see the table of desired sound levels for venues below;

Space Type	NC or RC Level	Approx. dBa
Buildings		
House (Rural & Suburban)	20-30	25-35
House (Urban)	25-35	30-40
Apartment	30-40	35-45
Hotels		
Private Rooms	30-40	35-45
Ballroom, Dining Room	30-40	35-45
Halls, Corridors, Lobbies	35-45	40-50
Garages	40-50	45-55
Kitchens, Laundries	40-50	45-55
Hospitals and Clinics		
Private Rooms	25-35	30-40
Surgery Room	30-40	35-45
Wards	30-40	35-45
Laboratory	30-40	35-45
Lobby, Waiting Room	35-45	40-50
Sinks & Toilets	40-50	45-55
Offices		
Management Rooms	20-30	25-35
Conference Halls	25-35	30-40
Executive Offices	30-40	35-45
Headquarters	30-40	35-45
Reception Rooms	30-40	35-45
Public Open Offices	35-45	40-50
Design Rooms	35-45	40-50
Halls and Corridors	40-50	45-55
Calculation Rooms	40-50	45-55
Theater Performance and Music Halls		
Concert and Opera Halls	15-25	20-30
Sound Recording Studios	15-25	20-30
Theatre Halls	25-35	30-40
Multi-Purpose Halls	25-35	30-40
Movie Theaters	30-40	35-45
TV Rest Studios	30-40	35-45
Amphitheaters	30-40	35-45
Seminar Halls	30-40	35-45
Planetariums (Sky houses)	30-40	35-45

Space Type	NC or RC Level	Approx. dBa
Schools and Sanctuary		
Places of worship	20-30	25-35
Libraries	30-40	35-45
School and Classroom	30-40	35-45
Laboratories	35-45	40-50
Entertainment Halls	35-45	40-50
Corridors, Halls	35-45	40-50
Public Buildings		
Libraries, Museums	30-40	35-45
Post Offices	35-45	40-50
General Bank Areas	35-45	40-50
Sinks, Toilets	40-50	45-55
Restaurants and Cafeterias		
Restaurants	35-45	40-50
Cocktail Lounges	35-45	40-50
Nightclubs	35-45	40-50
Cafeterias	40-50	45-55
Stores		
Clothing Stores	35-45	40-50
Upstairs Big Stores	35-45	40-50
Downstairs Big Stores	40-50	45-55
Small Stores	40-50	45-55
Supermarkets	40-50	45-55
Indoor Sports Events		
Big Competition Hall	30-40	35-45
Bowling Saloons	35-45	40-50
Sports Saloons	35-45	40-50
Swimming Pools	40-50	45-55
Transportation (bus, rail, plane, etc.)		
Ticket Sales Booths	30-40	35-45
Waiting Rooms	35-50	40-55