



TEXAS TECH UNIVERSITY SYSTEM
Facilities Planning and Construction™

Jul-21

BASE VALUE DESIGN RECOMMENDATIONS

Occupancy Type	TRANSMITTED	AUDIBLE	AUDIBLE	MATERIAL	MATERIAL (ASTM C 423)
	REDUCTION	TARGET	DECAY	BLOCKING	ABSORPTION
	Sound Transmission Class Rating (dB)	Noise Criterion Levels (Max dB)	Reverberation Time (RT60 dB)	Ceiling Attenuation Class	Noise Reduction Coefficient
General	(STC)	(NC)	(RT)	(CAC) ^{min}	(NRC) ^{min}
Office	45	30 - 40		35+	0.80+
Administrative / Executive / Coach Offices	50+	30 - 35		40+	0.85+
Conference Room	50+	30 - 40		35+	0.85+
Breakroom	40	35 - 40		35+	0.80+
Reception	45	35 - 40		35+	0.70 - 0.75
Open Cubicle Office Space	45	30 - 40		35+	0.70 - 0.75
Toilet / Washroom	48	35 - 45		35+	0.85+
Workroom / Copy / File	40	35 - 45		35+	0.60 - 0.65
Storage (Office)	40	40 - 50		35+	0.60 - 0.65
Education					
Classroom	50	30 - 40	< 1.0 Second	35+	0.80+
Lecture Hall	50	25 - 35	< 1.0 Second	35+	0.80+
Open Study	50	30 - 40	1.0 Second	35+	0.80+
Lab (Experimental)	45	30 - 40	1.0 Second	35+	0.70 - 0.75
Lab (Research)	45	30 - 40	1.0 Second	35+	0.70 - 0.75
Specialty Lab	45	30 - 40	1.0 Second	35+	0.70 - 0.75
Collaboration Spaces	50	30 - 40	1.0 Second	35+	0.80+
Student Housing					
Sleeping Spaces	45	30 - 40		35+	0.80+
Living Spaces	45	30 - 40		35+	0.80+
Food Services	45	35 - 40		35+	0.80+
Dining Spaces	45	30 - 40	1.0 Second	35+	0.80+
Retail Spaces	45	30 - 40		35+	0.80+
Bathrooms / Utility	45				
Athletic					
Locker room / Shower	50	35 - 45		35+	0.70 - 0.75
Gymnasiums / Indoor Practice Areas	50	35 - 45	1.0 - 2.0 Seconds	35+	0.80+
Training	45	35 - 45	1.0 Second	35+	0.70 - 0.75
Strength & Conditioning	50	35 - 45	1.0 Second	35+	0.80+
Player Lounge	50	35 - 45	1.0 Second	35+	0.80+
Video Rooms	45	30 - 40	1.0 Second	35+	0.80+
Equipment Check Out / Laundry	50	35 - 45		35+	0.80+
Hydrotherapy	50	35 - 45		35+	0.80+
Specific Use					
Performance Spaces for Music (Dependent on Volume)	50+	30 - 40	2.0 - 4.0 Seconds	35+	0.80+
Performance Spaces for Speech (Dependent on Volume)	50+	20 - 25	1.0 - 2.0 Seconds	35+	0.80+
Kitchen	52	40 - 50		35+	0.70 - 0.75
Confidentiality Sensitive (non-HIPPA Restricted)	45	30 - 40	1.0 Second	35+	0.80+
Confidentiality Sensitive (HIPPA Restricted)	50	30 - 40	1.0 Second	40+	0.95
Clinical Examination / Compliance (HIPPA Restricted)	45	30 - 40		40+	0.80+
Simulation	45	30 - 40		35+	0.80+
Mental Health (HIPPA Compliance)	45	30 - 40	1.0 Second	40+	0.95
EEO, HR, Compliance, Counseling	50	30 - 40	1.0 Second	40+	0.95
Public					
Corridors	45	35 - 45		35+	0.80+
Public Restrooms	50	35 - 45		35+	0.80+
Collaboration Space	52	30 - 40		35+	0.80+
Lobby / Communication / Atriums	50	35 - 45	1.0 - 2.0 Seconds	35+	0.80+
Exhibit / Gallery	52	30 - 40	1.0 - 2.0 Seconds	35+	0.80+
Mother's Room	45	30 - 40		35+	0.70 - 0.75
Support					
Mechanical Rooms (Sharing common walls with occupied spaces)	55	NA	NA	N/A ¹	N/A ¹
Mechanical Rooms	55	NA	NA	N/A ¹	N/A ¹
Electrical Rooms (Sharing common walls with occupied spaces)	55	NA	NA	N/A ¹	N/A ¹
Electrical Rooms	55	NA	NA	N/A ¹	N/A ¹
MDF / IDF / Data Rooms	45	NA	NA	N/A ¹	N/A ¹
Storage (Dock/Receiving)	45	NA	NA	N/A ¹	N/A ¹
Elevator Machine Rooms (Hydraulic)	60	NA	NA	N/A ¹	N/A ¹
Elevator Machine Rooms (Traction)	55	NA	NA	N/A ¹	N/A ¹
Hoistways	50	NA	NA	N/A ¹	N/A ¹
Plumbing Chase	55	NA	NA	N/A ¹	N/A ¹
Mechanical Chase	45	NA	NA	N/A ¹	N/A ¹
Receiving Areas	50	NA	NA	N/A ¹	N/A ¹

Footnote 1: Space types do not require acoustical ceilings unless specifically requested.