

SECTION 07 21 00: BUILDING INSULATION

1. GENERAL

- A. All interior partitions are to be acoustically insulated with particular attention to offices, dormitory rooms and rooms with special audio / visual requirements or equipment. The following is the minimum sound isolation requirement (Sound Transmission Class (STC) rating) for all paths (walls, ceilings and floors) between the source and the receiver:

SOURCE ROOM	RECEIVER ROOM	MINIMUM STC RATING
Confidential Offices	Adjacent offices	STC 50 – 55
Normal Offices	Adjacent offices	STC 45 – 50
General Offices	Corridors, lobbies	STC 40 – 45
Mechanical Equip. Rooms	Any spaces	STC 50 – 60+
Bedrooms	Bedrooms	STC 48 – 55
	Bathrooms	STC 52 – 58
	Kitchens	STC 52 – 58
	Living Rooms	STC 48 – 55
	Corridors	STC 52 – 58
	Bathrooms	STC 52 – 58
	Kitchens	STC 52 – 58
	Living Rooms	STC 48 – 55
	Corridors	STC 52 – 58
Living Rooms	Living Rooms	STC 48 – 55
	Bathrooms	STC 50 – 57
	Kitchens	STC 48 – 50
Classrooms	Adjacent Classrooms	STC 50
	Laboratories	STC 50
	Corridors	STC 45
Music or Drama	Adj. Music or Drama	STC 60
Music Practice	Music Practice	STC 55

- B. All mechanical and utility penetrations and chases shall be acoustically insulated.
- C. Internal duct lining are not allowed; only external duct insulation is to be used; lining will be reviewed and approved by the Brown Project Manager.