

SECTION 07 21 00: BUILDING INSULATION

HEALTHY MATERIALS STANDARDS

Brown University has adopted and continues to evolve its healthy materials building standards. This program is intended to eliminate certain materials with known or suspected negative impacts to human health, particularly vulnerable populations. Brown has built an interactive platform for planning, design and construction teams to identify acceptable (required/baseline) and preferred healthy materials. The University strives to select the preferred versus required (baseline) materials and teams should explore the cost/benefits of both. Any deviation from the acceptable materials will require a waiver to be signed off by The AVP of Sustainability and Resiliency. Please work with your Project Manager to navigate the Hub. The Brown Healthy Materials Hub can be found at: <https://sites.google.com/view/brown-hh-resources?usp=sharing>.

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.