

Table 2.5-6**Design Criteria for Minimum Sound Isolation Performance Between Enclosed Rooms¹**

Adjacency Combination		STC _c ²
Resident room/dwelling unit	Resident room/dwelling unit	45 ³
Resident room/dwelling unit	Corridor (with entrance)	35 ⁴
Resident room/dwelling unit	Community space	50
Resident room/dwelling unit	Service area	60 ⁵
Examination room	Corridor (with entrance)	35 ⁴
Examination room	Multiple-occupant resident care and activity areas or public corridor	50 ⁶
Toilet room	Multiple-occupant resident care and activity areas or public corridor	45
Consultation room	Multiple-occupant resident care and activity areas or public corridor	50 ⁶
Consultation room	Resident room/dwelling unit	50
Consultation room	Corridor (with entrance)	35 ⁴

¹Additional spaces shall be added based on the building program.

²The STC values stated assume the need for normal speech privacy (except at corridor walls with doors), assuming a background sound level of at least 30 dBA. When selecting assemblies based on their tested or published STC ratings, it should be noted that STC test reports can, in general, be considered accurate to ± 2 STC points. Consequently, an assembly with a tested or published STC rating as low as 2 points below the stated minimum may be considered acceptable.

³In cases where greater speech privacy is required between resident rooms when both resident room doors to the connecting corridor are closed, the wall performance requirement shall be STC 50.

⁴This is the performance required for the partition excluding the door. Note that sound isolation in these instances will be limited by the door's performance (e.g., STC 20 for a close-fitted 5 psf door). Doors are not required to be sound sealed to maintain the STC rating, although a facility may choose to do so for specialty resident environments such as bereavement rooms, consultation rooms, etc.

⁵Relaxation of STC 60 ratings shall be permitted if compliance with room noise requirements is achieved with lower performance constructions. See Table 2.5-5 (Maximum Design Criteria for Noise in Interior Spaces Caused by Building Systems).

⁶Also applies to private speech and hearing services rooms and private music therapy rooms.

Table 2.5-7**Design Criteria for Speech Privacy for Enclosed Rooms and Open-Plan Spaces^{1,2}**

Level	Metrics			
Speech Privacy— Closed Plan	PI	AI	SII	SPC
Secure	N/A	N/A	N/A	≥ 70
Confidential	$\geq 95\%$	≤ 0.05	≤ 0.10	60–69
Normal	80–94%	0.06– 0.20	0.11– 0.25	52–59
Defining Standard	ASTM E1130	ASTM E1130	ANSI S3.5	ASTM E2638
Speech Privacy— Open Plan	PI	AI	SII	SPC
Confidential ²	Special consideration required. ³			
Normal	80–94%	0.06– 0.20	0.11– 0.25	52–59
Marginal	60–79%	0.21– 0.40	0.26– 0.45	45–51
Defining Standard:	ASTM E1130	ASTM E1130	ANSI S3.5	ASTM E2638

¹The indicated AI and SII values shall be considered the maximum accepted values. The indicated PI and SPC values shall be considered the minimum accepted values.

²Equivalence among these metrics, as indicated, has been demonstrated. However, some of these metrics may not be suitable for a particular space. The referenced standards indicate that PI and SI are appropriate for use in open plan spaces, and that SPC is appropriate for closed plan spaces. The referenced standard for SII indicates that SII may be used for either type.

³Confidential speech privacy is not readily achievable in open-plan spaces due to the lack of barriers, low ambient sound levels, and typical voice effort.

Table 2.5-8**Maximum Limits on Floor Vibration Caused by Footfalls in Residential Health, Care, and Support Facilities**

Space Type	Footfall Vibration Peak Velocity (micro-in/s)
Resident rooms, dwelling units, and other resident areas	6000
Examination rooms	6000
Administrative areas	8000
Community circulation areas	8000
Quiet room	6000