

TABLE 1
OAR 333-535-0270

SOUND TRANSMISSION LIMITATIONS IN GENERAL HOSPITALS

	AIRBORNE SOUND TRANSMISSIONS <i>a/</i> CLASS (STC)		IMPACT INSULATION <u><i>d/</i></u> CLASS (STC)
	PARTITIONS	FLOORS	FLOORS
Patients room to patients room	45	50	--
Patient room to corridor (with entrance)	35 <i>b/</i>	--	--
Patient room to MRI room	60 <i>f/</i>	60 <i>f/</i>	--
Public space to patients room <i>c/</i>	50	50	50 <u><i>d/</i></u>
Public space to MRI room	50 <i>f/</i>	50 <i>f/</i>	--
Public space to toilet room	45	45	--
Treatment/Exam room to corridor (with entrance)	35 <i>b/</i>	--	--
Treatment/Exam room to public space	50	50	--
Treatment/Exam room to Treatment/Exam room	50	50	--
Treatment/Exam room to MRI room	60 <i>f/</i>	60 <i>f/</i>	--
Service areas to patients room <i>e/</i>	60	60	60 <u><i>d/</i></u>

a/ Sound transmission class (STC) shall be determined by tests in accordance with methods set forth in ASTM Standard E 90 and ASTM Standard E 413. The sound isolation ratings are considered the composite sound isolation performance values associated with the demising construction, whether they are the floor/ceiling or wall partitions.

b/ The performance of this construction assumes a closed door.

c/ Public space includes corridors (except patient room access corridors) lobbies, dining rooms, recreation rooms, treatment/exam rooms, and similar spaces.

d/ Impact noise limitation applicable only when corridor, public space, service area, or play/recreation area is over a patient room.

e/ Service areas include kitchens, elevators, elevator machine rooms, laundries, garages, maintenance rooms, generator rooms, boiler and mechanical equipment rooms, and similar non-public spaces that serve the operation of the facility. Mechanical equipment located on the same floor or above patient rooms, offices, nurse stations, and similar occupied spaces shall be effectively isolated from the floor.

f/ MRI noise and vibration transmission to nearby sensitive spaces requires special consideration.

g/ Where partitions do not extend to the structure above, sound transmission through ceilings and composite STC performance must be considered. Demountable wall STC performance shall be balanced with the Ceiling Attenuation Class (CAC) performance of the ceiling.

NOTE:

The requirements set forth in this table assume installation methods which will not appreciably reduce the efficiency of the assembly as tested.