

Table 403.01(5): Internal Impact Sound Pressure Levels (Maximum)

Location	Residential	Educational	Hospital	Commercial
	L'_{nTw}	L'_{nTw}	L'_{nTw}	L'_{nTw}
Habitable Rooms	62	-	-	-
Non Habitable Rooms	62	-	-	-
Office (Cellular)	-	65	65	65
Office (Open Plan)	-	65	65	65
Teaching Room (Standard)	-	60	65	65
Meeting Room (Small)	-	60	65	65
Meeting Room (Large)	-	60	65	65
Board Room	-	55	65	65
Hospital Ward (Single bed)	-	-	65	-
Hospital Ward (Multiple bed)	-	-	65	-

Notes

- The maximum impact sound pressure level requirement depends on the activities in adjacent spaces. The levels specified above must be checked against the relevant documents listed in Table 403.01(1)

The measurement of noise shall be carried out for at least 5% of the total spaces covering each space type. Where different ventilation strategies are used, measurements should be conducted in rooms utilising each strategy. Measurement positions should include normally occupied positions closest to the most significant noise sources.

Following measurements shall be carried out on-site in order to verify the compliance with the regulation.

Indoor ambient noise level measurements

The noise measurement shall be carried out when external noise is representative of conditions during normal working hours and rooms are furnished and unoccupied. The sound level meter shall measure L_{Aeq} equivalent continuous sound level over a period of standard time specified in the table 403.01(2) and 403.01(3).

Airborne sound insulation

The airborne sound insulation should be measured in accordance with ISO 16283-1:2014 “Acoustics - Field measurement of sound insulation in buildings and of building elements - Part 1: Airborne sound insulation”. All measurements and calculations should be carried out using one-third octave frequency bands. Performance should be rated in terms of the weighted standardised level difference, in accordance with ISO 717-1:2013.

Impact sound insulation

The impact sound insulation should be measured in accordance with ISO 16283-2:2018 “Acoustics - Field measurement of sound insulation in buildings and of building elements - Part 2: Impact sound insulation”. All measurements and calculations should be carried out using one-third octave frequency bands. The performance should be rated in terms of the weighted standardised impact sound pressure level in accordance with ISO 717-2:2013.