

APPLICABILITY

This regulation is applicable to all building types. Refer to Table 101.07(1) in Section One - Administration for detailed applicability levels.

IMPLEMENTATION

This regulation adopts British Standard for Acoustic Controls (British Standard BS 8233 - "Sound Insulation and Noise Reduction for Buildings – Code of Practice"). The standard deals with the control of noise from outside the building, noise from plant and services within it and room acoustics and suggests appropriate criteria and limits for different situations. Other codes of practice or standards may be applied upon approval from Dubai Municipality (DM).

Control requirements set out in Table 403.01(1) is further expanded in the following tables (403.01(2-5)). The levels of acoustic performance detailed in the following tables (403.01(2-5)) must be achieved. The complete referenced documents should be consulted when designing the acoustical performance of buildings.

Building should be designed such that ambient internal noise levels from these external sources do not exceed the following criteria mentioned in Table 403.01(2):

Table 403.01(2): Criteria for Noise Intrusion from External Noise Sources (Maximum)

Location	Residential		Educational	Hospital		Commercial
	L_{Aeq} , 16hr (0700 - 2300)	L_{Aeq} , 8hr (2300 to 0700)		Day L_{Aeq} , 1 hr	Night L_{Aeq} , 1 hr	
Habitable Rooms	35	30	-	-	-	-
Non Habitable Rooms	45	40	-	-	-	-
Office (Cellular)	-	-	40	40	40	35
Office (Open Plan)	-	-	40	40	40	38
Teaching Room (Standard)	-	-	35	35	35	30
Meeting Room (Small)	-	-	40	40	40	40
Meeting Room (Large)	-	-	35	35	35	35
Board Room	-	-	30	30	30	35
Hospital Ward (Single bed)	-	-	-	40	35	-
Hospital Ward (Multiple bed)	-	-	-	45	35	-
Operating Theatres	-	-	-	40	40	-
Plant Room	80	75	80	80	80	75

Notes:

- Night is defined as the hours between 23.00 and 07.00.
- The intrusive noise criteria do not include plant noise from adjacent hospital buildings. This should be considered as mechanical service noise.
- Habitable rooms include: bedrooms, living rooms, dining rooms, hotel guestrooms, student accommodation, nursing accommodation and all rooms intended for residential purposes.
- Non-habitable rooms include: toilets (WC), corridors, kitchen spaces, public and private circulation spaces.

In addition to controlling exterior noise, building should also be designed such that ambient internal noise levels from these mechanical and electrical service sources do not exceed the following criteria mentioned in Table 403.01(3). These requirements are also part of *Regulation 403.02: Silencers*.