

## GENERAL NOTES:

PLEASE CONSULT ACOUSTIC CONSULTANT WHERE ANY VARIATION OF ACOUSTIC REQUIREMENTS IS NEEDED.



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RE - 003

### SOUND INSULATION

AIRBORNE SOUND INSULATION BETWEEN SPACES SHALL BE NOT LESS THAN THE VALUES SCHEDULED BELOW, TO BS EN ISO 140-4:1998 AND BS EN ISO 717-1:1997

ROOM AREAS	DECIBEL LEVEL
Bedroom - Bedroom	
Bedroom - Bathroom (different rooms)	
Bedroom - Meeting Room	
Bedroom - Reception	
Bedroom - Ancillary	Walls DnT,w + Ctr 43 dB
Bathroom - Bathroom	Floors DnT,w + Ctr 45 dB
Bedroom - Other users	DnT,w 65 dB (1)
Bedroom - Corridor	note (2)
Bedroom - Plantroom	DnT,w 55 dB
Bathroom - Corridor	DnT,w 45 dB
Meeting Room - Meeting Room	DnT,w 45 dB
Meeting Room - Plantroom	DnT,w 55 dB (3)

Notes:  
(1) See also "Noise Transfer From Other Users"  
(2) Wall construction to achieve not less than Rw 40 dB. Doors to achieve not less than Rw 29 dB. (Ref. BS EN ISO 140-3:1995 and BS EN ISO 717-1:1997)  
(3) See also "Background Noise Levels - Heating/Ventilation/Air Conditioning"

IMPACT SOUND INSULATION BETWEEN SPACES SHALL NOT EXCEED THE VALUES SCHEDULED BELOW, TO BS EN ISO 140-7:1998 AND BS EN ISO 17-2:1995.

ROOM AREAS	PERFORMANCE
Bedroom - Bedroom	L'nT,w 62 dB
Bathroom - Bedroom	L'nT,w 62 dB
Corridor - Bedroom	L'nT,w 62 dB

### REVERBERATION IN COMMON PARTS

SOUND ABSORPTION TO BE PROVIDED IN CORRIDORS, STAIRCASES AND HALLWAYS IN ACCORDANCE WITH THE REQUIREMENTS OF THE BUILDING REGULATIONS 200 APPROVED DOCUMENT E SECTION 7.

### NOISE TRANSFER FROM OTHER USERS

AIRBORNE AND STRUCTUREBORNE SOUND TRANSMISSION FROM ANY OTHER USER IN THE SAME DEVELOPMENT SHALL BE CONTROLLED SUCH THAT THE RESIDUAL NOISE LEVEL IN ANY ADJACENT HOTEL AREA DOES NOT EXCEED THE CRITERIA SHOWN BELOW AT ANY TIME.

ROOM AREAS	NOISE LEVEL
Bedrooms	LAeq,5minutes 25 dB LAmx 35 dB
Meeting Rooms	LAeq,5minutes 35 dB
Entrance Lobby	LAeq,5minutes 35 dB

### BACKGROUND NOISE LEVELS - EXTERNAL SOURCES

THE BACKGROUND NOISE LEVEL IN ANY HOTEL BEDROOM WITH CLOSED WINDOWS DUE TO EXTERNAL SOURCES SUCH AS ROAD TRAFFIC, SHALL NOT EXCEED THE FOLLOWING.

PERIOD	NOISE LEVEL
Daytime (0700 - 2300 hrs)	LAeq,16hour 40 dB
Night-time (2300 - 0700 hrs)	LAeq,8hour 35 dB LAmx 45 dB (1)

Notes:  
(1) F time weighting. For regular events only - excludes infrequent and irregular sources.

### BACKGROUND NOISE LEVELS - PLANT AND EQUIPMENT

THE LEVEL OF AIRBORNE AND STRUCTURE-BORNE NOISE OF ANY PLANT AND EQUIPMENT, SHALL NOT EXCEED THE FOLLOWING AT ANY TIME.

Room Areas	NOISE LEVEL
Bedrooms	NR 30
Bathrooms	NR 45
Meeting Rooms	NR 35
Corridors	NR 40
Externally, 1m from bedroom windows	NR 42

### PROVISION OF MECHANICAL VENTILATION / AIR CONDITIONING

AT SITES WHERE THE EXTERNAL NOISE LEVEL AT 1M FROM ANY RELEVANT BEDROOM WINDOW IS EXPECTED TO EXCEED THE LIMITS SHOWN BELOW, PROVISION SHALL BE MADE TO MECHANICALLY VENTILATE OR AIR-CONDITION THE ROOMS SUCH THAT WINDOWS DO NOT ORDINARILY NEED TO BE OPENED.

Period	NOISE LEVEL
Night-time (2300 - 0700) hrs	LAeq,8hour 62 dB LAmx 72 dB (1)

Notes:

(1) F time weighting. For regular events only - excludes infrequent and irregular sources.