

1 Application of Guidelines

The Acoustic requirements outlined in this part of the Guidelines are based on best practice and they are provided as a guide. These requirements should not override other more stringent requirements as mandated by the local Authorities.

Acoustic requirements within this Acoustic Guideline are in addition to any other non-acoustic requirements such as structural integrity, fire rating, material compatibility, etc.

2 Architectural Elements

1 Walls

Minimum STC/Rw Requirements

The recommended Rw ratings for the various space's types are shown in the table below. Details of corresponding wall types are presented in Part G - Appendix 1.

Space Type	Proposed Rating
Store Rooms, Utilities	35
Toilet, Change Rooms, Ensuite	40
General Office, Lounge	40 (35 for wall to corridor)
Interview, Consult/Exam, Treatment, Inpatient bed rooms	45 (40 for wall to corridor)
AV room, Dirty Utility or Lounge adjacent to Inpatient bed rooms	50 (40 for wall to corridor)
Plant room walls adjacent to Offices/ Inpatient Bedrooms or Suites	55

Table 1 – Required Wall Rating

*Note – These ratings are laboratory/design ratings. After construction, a field measured rating will commonly be less than the laboratory recommended rating. This can occur as a result of field-testing uncertainties (ie – test is not conducted under laboratory conditions). When verification testing, any field test rating must be within at least 5 Rw points of the design rating. When verification testing, and field measured acoustic performance (R'w) must be within 5 points of the specified design Rw rating.

Carry out the installation of all walls/partitions in a manner that will not reduce the performance of the walls below the tabled Rw requirements. This includes but not limited to the proper filling of joints between blocks/panels, back filling with mortar any chasing of walls and sealing of wall junctions.

Unless stated otherwise all acoustically rated walls shall be installed slab-to-slab and sealed at the head.

Penetrations

Acoustically treat all penetrations through walls to maintain the nominated acoustic rating as listed in above.

No penetrations are to be made into the wall constructions unless specified or shown in the drawings.

Wall Junctions and Mullions