



1. TYPE OF ROOM OF OCCUPANCY	2a. EXTERNAL NOISE		
	40 - 50 dBA <i>e.g. Quiet residential area with distant traffic noise / rainfall / creeks</i>	50 - 60 dBA <i>e.g. Urban area with traffic noise / distant train noise / quiet restaurants</i>	60 - 70 dBA <i>e.g. Urban area with significant traffic noise / retail activity / busy restaurants / industrial noise</i>
	2b. ADJACENT ROOM		
	40 - 50 dBA Transient <i>e.g. Corridors</i>	50 - 60 dBA Occupied <i>e.g. Offices / Classrooms</i>	60 - 70 dBA Occupied / Unoccupied <i>e.g. Music / Factories</i>
3. REQUIRED R_W RATING OF DOOR SEALING SYSTEM			
<ul style="list-style-type: none"> Carparks Control rooms Factories 	R_W22	R_W25	R_W28
<ul style="list-style-type: none"> Bars and lounges Corridors and lobbies Food courts Service areas / utility rooms Shopping malls / supermarkets Stores 	R_W25	R_W28	R_W30
<ul style="list-style-type: none"> Airports Apartments¹ Art studios Boarding house rooms¹ Cafés Guest house rooms¹ Gyms Hotel rooms / motel rooms¹ Intensive care wards Laboratories Libraries Computer rooms Living areas¹ Meeting rooms Offices Recovery rooms 	R_W30	R_W30	R_W35
<ul style="list-style-type: none"> Auditoriums Bedrooms / sleeping areas¹ Board rooms Cinemas / home theatres Classrooms Consulting rooms Convention centres Court rooms Delivery suites Drama studios Executive offices Places of worship Procedure rooms 	R_W30	R_W35	R_W40
<ul style="list-style-type: none"> Drama studios² Film or television studios² Music practice / studio rooms² Music recording studios² Sound stages² Voice over booth² 	R_W35+	R_W40	$R_W43 - 45$

¹ To be used with this guide for external door sealing solutions only. Refer NCC Part F5.5 (b) on [page 31](#).

² Rating of acoustic door to be acoustically designed by a suitably qualified acoustic engineer.

It must be noted that this table does not calculate the end design sound level ($L_{Aeq,t}$), but only the minimum required R_W rating of a door set.

It must also be noted that this table is a guide only and is not to take precedence over local building codes or standards. Consultation with an acoustic engineer should be considered when specifying solutions for noise problems.