



Road Traffic and Passenger Rail - Quiet House Requirements (Based on Table 3 of State Planning Policy 5.4 2019)							
Exposure Category	Orientation to corridor	Acoustic ratings					Mechanical ventilation/air conditioning considerations
		Walls	External doors	Windows	Roofs and ceilings of highest floors	Outdoor Living areas	
A Quiet House A	Facing	Bedroom and Indoor Living and work areas ➤ $R_w + C_{tr}$ 45dB	Bedrooms: ➤ $R_w + C_{tr}$ 28dB Indoor Living and work areas: ➤ $R_w + C_{tr}$ 25dB	Bedrooms: Window size dependant ➤ Minimum $R_w + C_{tr}$ 28 dB Indoor Living and work areas Window size dependant ➤ Minimum $R_w + C_{tr}$ 25 dB	➤ $R_w + C_{tr}$ 35dB	➤ At least one outdoor living area located on the opposite side of the building from the transport corridor and/or at least one ground level outdoor living area screened using a solid continuous fence or other structure of minimum 2 metres height above ground level	➤ Acoustically rated openings and ductwork to provide a minimum sound reduction performance of Rw 40dB into sensitive spaces
	Side On		Bedrooms: ➤ $R_w + C_{tr}$ 25dB Indoor Living and work areas: ➤ $R_w + C_{tr}$ 22dB	Bedrooms: Window size dependant ➤ Minimum $R_w + C_{tr}$ 25 dB Indoor Living and work areas Window size dependant ➤ Minimum $R_w + C_{tr}$ 22 dB			
	Opposite		No specific requirements	No specific requirements			
B Quiet House B	Facing	Bedroom and indoor living and work areas ➤ $R_w + C_{tr}$ 50dB	Bedrooms ➤ $R_w + C_{tr}$ 31dB Indoor Living and work areas: ➤ $R_w + C_{tr}$ 28dB	Bedrooms: Window size dependant ➤ Minimum $R_w + C_{tr}$ 31 dB Indoor Living and work areas Window size dependant ➤ Minimum $R_w + C_{tr}$ 28 dB	➤ $R_w + C_{tr}$ 35dB	➤ At least one outdoor living area located on the opposite side of the building from the corridor and/or at least one ground level outdoor living area screened using a solid continuous fence or other structure of minimum 2.4 metres height above ground level	➤ Acoustically rated openings and ductwork to provide a minimum sound reduction performance of Rw 40dB into sensitive spaces
	Side-On		Bedrooms ➤ $R_w + C_{tr}$ 28dB Indoor Living and work areas: ➤ $R_w + C_{tr}$ 28dB	Bedrooms: Window size dependant ➤ Minimum $R_w + C_{tr}$ 28 dB Indoor Living and work areas Window size dependant ➤ Minimum $R_w + C_{tr}$ 25 dB			
	Opposite		Bedrooms ➤ $R_w + C_{tr}$ 25dB Indoor Living and work areas: ➤ $R_w + C_{tr}$ 25dB	Bedrooms: Window size dependant ➤ Minimum $R_w + C_{tr}$ 25 dB Indoor Living and work areas Window size dependant ➤ Minimum $R_w + C_{tr}$ 22 dB			
C Quiet House C	Facing	Bedroom and indoor living and work areas ➤ $R_w + C_{tr}$ 50dB	Bedrooms ➤ No External doors to bedrooms facing the corridor Indoor Living and work areas ➤ $R_w + C_{tr}$ 31dB	Bedrooms: Window size dependant ➤ Minimum $R_w + C_{tr}$ 31dB) Indoor Living and work areas Window size dependant ➤ Minimum $R_w + C_{tr}$ 31dB	➤ $R_w + C_{tr}$ 40dB	➤ At least one outdoor living area located on the opposite side of the building from the corridor and/or at least one ground level outdoor living area screened using a solid continuous fence or other structure of minimum 2.4 metres height above ground level	➤ Acoustically rated openings and ductwork to provide a minimum sound reduction performance of Rw 40dB into sensitive spaces.
	Side-on		Bedrooms ➤ $R_w + C_{tr}$ 31dB Indoor Living and work areas ➤ $R_w + C_{tr}$ 28dB	Bedrooms: Window size dependant ➤ Minimum $R_w + C_{tr}$ 31 dB Indoor Living and work areas Window size dependant ➤ Minimum $R_w + C_{tr}$ 28 dB			
	Opposite		Bedrooms: ➤ $R_w + C_{tr}$ 28dB Indoor Living and work areas: ➤ $R_w + C_{tr}$ 28dB	Bedrooms: Window size dependant ➤ Minimum $R_w + C_{tr}$ 28 dB Indoor Living and work areas Window size dependant ➤ Minimum $R_w + C_{tr}$ 25 dB			