

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 <ul style="list-style-type: none"> R_w + C_{tr} 45dB 	Bedrooms: <ul style="list-style-type: none"> R_w+C_{tr} 28dB Indoor Living and work areas: <ul style="list-style-type: none"> R_w+C_{tr} 25dB 	Bedrooms: Window size dependant <ul style="list-style-type: none"> Minimum R_w+C_{tr} 28 dB Indoor Living and work areas Window size dependant <ul style="list-style-type: none"> Minimum R_w+C_{tr} 25 dB 	<ul style="list-style-type: none"> R_w+C_{tr} 35dB 	<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> Acoustically rated openings and ductwork to provide a minimum sound reduction performance of Rw 40dB into sensitive spaces
	Side On		Bedrooms: <ul style="list-style-type: none"> R_w+C_{tr} 25dB Indoor Living and work areas: <ul style="list-style-type: none"> R_w+C_{tr} 22dB 	Bedrooms: Window size dependant <ul style="list-style-type: none"> Minimum R_w+C_{tr} 25 dB Indoor Living and work areas Window size dependant <ul style="list-style-type: none"> Minimum R_w+C_{tr} 22 dB 			
	Opposite		No specific requirements				
B Quiet House B	Facing	Bedroom and indoor living and work areas <ul style="list-style-type: none"> R_w+C_{tr} 50dB 	Bedrooms <ul style="list-style-type: none"> R_w+C_{tr} 31dB Indoor Living and work areas: <ul style="list-style-type: none"> R_w+C_{tr} 28dB 	Bedrooms: Window size dependant <ul style="list-style-type: none"> Minimum R_w+C_{tr} 31 dB Indoor Living and work areas Window size dependant <ul style="list-style-type: none"> Minimum R_w+C_{tr} 28 dB 	<ul style="list-style-type: none"> R_w+C_{tr} 35dB 	<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> Acoustically rated openings and ductwork to provide a minimum sound reduction performance of Rw 40dB into sensitive spaces
	Side-On		Bedrooms <ul style="list-style-type: none"> R_w+C_{tr} 28dB Indoor Living and work areas: <ul style="list-style-type: none"> R_w+C_{tr} 28dB 	Bedrooms: Window size dependant <ul style="list-style-type: none"> Minimum R_w+C_{tr} 28 dB Indoor Living and work areas Window size dependant <ul style="list-style-type: none"> Minimum R_w+C_{tr} 25 dB 			
	Opposite		Bedrooms <ul style="list-style-type: none"> R_w+C_{tr} 25dB Indoor Living and work areas: <ul style="list-style-type: none"> R_w+C_{tr} 25dB 	Bedrooms: Window size dependant <ul style="list-style-type: none"> Minimum R_w+C_{tr} 25 dB Indoor Living and work areas Window size dependant <ul style="list-style-type: none"> Minimum R_w+C_{tr} 22 dB 			
C Quiet House C	Facing	Bedroom and indoor living and work areas <ul style="list-style-type: none"> R_w+C_{tr} 50dB 	Bedrooms <ul style="list-style-type: none"> No External doors to bedrooms facing the corridor Indoor Living and work areas <ul style="list-style-type: none"> R_w+C_{tr} 31dB 	Bedrooms: Window size dependant <ul style="list-style-type: none"> Minimum R_w+C_{tr} 31dB) Indoor Living and work areas Window size dependant <ul style="list-style-type: none"> Minimum R_w+C_{tr} 31dB 	<ul style="list-style-type: none"> R_w+C_{tr} 40dB 	<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> Acoustically rated openings and ductwork to provide a minimum sound reduction performance of Rw 40dB into sensitive spaces.
	Side-on		Bedrooms <ul style="list-style-type: none"> R_w+C_{tr} 31dB Indoor Living and work areas <ul style="list-style-type: none"> R_w+C_{tr} 28dB 	Bedrooms: Window size dependant <ul style="list-style-type: none"> Minimum R_w+C_{tr} 31 dB Indoor Living and work areas Window size dependant <ul style="list-style-type: none"> Minimum R_w+C_{tr} 28 dB 			
	Opposite		Bedrooms: <ul style="list-style-type: none"> R_w+C_{tr} 28dB Indoor Living and work areas: <ul style="list-style-type: none"> R_w+C_{tr} 28dB 	Bedrooms: Window size dependant <ul style="list-style-type: none"> Minimum R_w+C_{tr} 28 dB Indoor Living and work areas Window size dependant <ul style="list-style-type: none"> Minimum R_w+C_{tr} 25 dB 			

Note: The above treatments are a deemed to satisfy construction. Alternative designs are acceptable, provided they are certified by a suitable qualified acoustic consultant