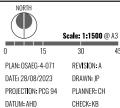




LOCAL DEVELOPMENT PLAN No.19 EGLINTON



LOCAL DEVELOPMENT PLAN PROVISIONS

## 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 rating and example constructions					Mechanical ventilation/air	
		Walls	External doors	Windows	Roofs and ceilings of highest floors	Outdoor Living areas	conditioning considerations	
A Quiet House A	Facing Side On	Bedroom and Indoor Living and work areas to Rw + Ctr 45dB  Stud Frame Walls  One row of 92mm studs at 60mm centres with:  Resilient steel channels fixed to the outside of the studs; and  9.5mm hardboard or 9mm fibre cement weatherboards or one layer of 19mm board cladding fixed to the outside of the channels; and  75mm glass wool (11kg/m3) or 75mm polyester (14kg/m3) insulation, positioned between the studs; and  -Two layers of 16mm fire-protective grade plasterboard fixed to the inside face of the studs.  Brick Walls  Single leaf of 150mm brick masonry with 13mm cement render on each face: OR	Pully glazed hinged door with certified R <sub>w</sub> +C <sub>tr</sub> 28dB rated door and frame including seals and 6mm glass  Indoor Living and work areas:  → 35mm solid core timber hinged door and frame system certified to Rw 28dB including seals: OR  → Glazed sliding door with 10 mm glass and weather seals  As per "Facing" above, except R <sub>w</sub> +C <sub>tr</sub> values may be 3dB less, e.g. glazed sliding door with 10 mm glass and weather seals for bedrooms	<ul> <li>▶ Total external door and window system area up to 40% of room floor area: Sliding or double hung with minimum 10 mm single or 6mm-12mm-10mm double insulted glazing (R<sub>w</sub>+C<sub>tr</sub> 28 dB). Sealed awning or casement windows may use 6 mm glazing instead: OR</li> <li>▶ Up to 60% floor area: as per above but must be sealed awning or casement type windows (R<sub>w</sub>+C<sub>tr</sub> 31dB).</li> <li>Indoor Living and work areas</li> <li>▶ Up to 40% floor area: Sliding, awning, casement or double hung with minimum 6mm single pane or 6mm-12mm-6mm double insulted glazing (R<sub>w</sub>+C<sub>tr</sub> 25dB): OR</li> <li>▶ Up to 60% floor area: As per Bedrooms at up to 40% area (Rw+Ctr28 dB: OR</li> <li>▶ Up to 80% floor area: As per Bedrooms at up to 60% area (R<sub>w</sub>+C<sub>tr</sub> 31 dB).</li> <li>As above, except R<sub>w</sub>+C<sub>tr</sub> values may be 3dB less, or max % area increased by 20%</li> </ul>	To R <sub>w</sub> +C <sub>tr</sub> 35dB  Concrete or terracotta tile or metal sheet roof with sarking and at least 10mm plasterboard ceiling	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> <li>Acoustically rated openings and ductwork to provide a minimum sound reduction performance of Rw 40dB into sensitive spaces</li> <li>Evaporative systems require attenuated ceiling air vents to allow closed windows</li> <li>Refrigerant-based systems need to be designed to achieve National Construction Code fresh air ventilation requirements</li> <li>Openings such as eaves, vents and air inlets must be acoustically treated, closed or relocated to building sides facing away from the corridor where practicable</li> </ul>	
	Opposite	Double brick: two leaves of 90 mm clay brick masonry with a 20mm cavity between leaves.	No specific requirements	No specific requirements				

## Road Traffic and Passenger Rail Quiet House Requirements

(Based on Table 3 of State Planning Policy 5.4 2019)

	o corridor	Walls  Bedroom and indoor living and work areas to R <sub>w</sub> +C <sub>tr</sub> 50dB  Single leaf of 90 mm clay brick masonry with:	External doors  Bedrooms	Windows  Bedrooms:	Roofs and ceilings of highest floors	Outdoor Living	conditioning considerations
		R <sub>w</sub> +C <sub>tr</sub> 50dB		Podrooms:		aicas	conditioning consideration
В	Facing	Bedroom and indoor living and work areas to	<ul> <li>➤ Fully glazed hinged door with certified R<sub>w</sub>+C<sub>tr</sub> 31dB rated door and frame including seals and 10mm glass</li> <li>Indoor Living and work areas</li> <li>➤ 35mm solid core timber hinged door and frame system certified to Rw 28dB including seals: OR</li> <li>➤ Glazed sliding door with 10 mm glass and weather seals</li> </ul>	<ul> <li>Total external door and window system area up to 40% of room floor areas: Fixed sash, awning or casement with minimum 6mm single or 6mm-12mm-6mm double insulted glazing (Rw+Ctr 31dB).</li> <li>Up to 60% floor area: as per above but must be minimum10mm single or 6mm-12mm-10mm double insulated glazing (Rw+Ctr 34dB)</li> <li>Indoor Living and work areas</li> <li>Up to 40% floor area; Sliding or double hung with minimum 6mm single pane or 6mm-12mm-6mm double insulted glazing (Rw+Ctr 28dB). Sealed awning or casement windows may use 6mm glazing instead. : OR</li> <li>Up to 60% floor area: As per Bedrooms at up to 40% area (Rw+Ctr 31dB). : OR</li> <li>Up to 80% floor area: As per Bedrooms at up to 60% area (Rw+Ctr 34dB).</li> </ul>	highest floors  To R <sub>w</sub> +C <sub>tr</sub> 35dB  Concrete or terracotta tile sarking and at least 10mm plasterboard ceiling, R3.0+ insulation  OR  Metal sheet roof, sarking and at least 10mm plasterboard ceiling, R3.0+ insulation  In the concrete or terracotta tile one one outdoor living area screened using a solid continuous fence or	<ul> <li>Acoustically rated openings and ductwork to provide a minimum sound reduction performance of Rw 40dB into sensitive spaces</li> <li>Evaporative systems require attenuated ceiling air vents to allow closed windows</li> <li>Refrigerant-based systems need to be designed to achieve National Construction Code fresh air ventilation requirements</li> <li>Openings such as approximate and air</li> </ul>	
Quiet House B	Side-On	one layer of 13mm plasterboard or 13mm cement render on each face  Double brick: two leaves of 90mm clay brick masonry with:  A 50mm cavity between leaves  50mm glass wool or polyester cavity insulation (R2.0+)  Resilient ties where required to connect leaves  Double brick: two leaves of 110mm clay brick masonry with  50mm cavity between leaves and R2.0+ cavity insulation	Bedrooms:  ➤ Fully glazed hinged door with certified R <sub>w</sub> +C <sub>tr</sub> 28dB rated door and frame including seals and 6mm glass  Indoor Living and work areas:  ➤ 35mm solid core timber hinged door and frame system certified to Rw 28dB including seals: OR  ➤ Glazed sliding door with 10 mm glass and weather seals	Bedrooms:  ➤ Total external door and window system area up to 40% of room floor area: Sliding or double hung with minimum 10 mm single or 6mm-12mm-10mm double insulted glazing (R <sub>w</sub> +C <sub>tr</sub> 28 dB). Sealed awning or casement windows may use 6 mm glazing instead. : OR  ➤ Up to 60% floor area: as per above but must be sealed awning or casement type windows (R <sub>w</sub> +C <sub>tr</sub> 31dB).  Indoor Living and work areas  ➤ Up to 40% floor area: Sliding, awning, casement or double hung with minimum 6mm single pane or 6mm-12mm-6mm double insulted glazing (R <sub>w</sub> +C <sub>tr</sub> 25dB). : OR  ➤ Up to 60% floor area: As per Bedrooms at up to 40% area (Rw+Ctr28 dB) : OR  ➤ Up to 80% floor area: As per Bedrooms at up to 60% area (R <sub>w</sub> +C <sub>tr</sub> 31 dB).		other structure of minimum 2.4 metres height above ground level	eaves, vents and air inlets must be acoustically treated, closed or relocated to building sides facing away from the corrido where practicable

## 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 rating and example constructions							
		Walls	External doors	Windows	Roofs and ceilings of highest floors	Outdoor Living areas	Mechanical ventilation/air conditioning considerations		
C Quiet House C	Facing	Bedroom and indoor living and work areas to Rw+Ctr 50dB  Single leaf of 90 mm clay brick masonry with:  A row of 70 mm x 35 mm timber studs or 64 mm steel studs at 600 mm centres;  A cavity of 25 mm between leaves;  50 mm glass wool or polyester cavity insulation (R2.0+) insulation between studs; and	External doors to bedrooms facing the corridor are not recommended.  Indoor Living and work areas  Fully glazed hinged door with certified Rw+Ctr 31dB rated door and frame including seals and 10mm glass: OR  40mm solid core timber frame and door (without glass or with glass inserts not less than 6mm), side hinged with certified Rw 32dB acoustically rated door and frame system including seals	Bedrooms:  ➤ Total external door and window system area up to 20% of room floor area: Fixed sash, awning or casement with minimum 6mm single or 6mm-12mm-6mm double insulted glazing (R <sub>w</sub> +C <sub>tr</sub> 31dB): OR  ➤ Up to 40% floor area; as per above but must be minimum 10mm single or 6mm-12mm-10mm double insulted glazing (R <sub>w</sub> +C <sub>tr</sub> 34dB).  Indoor Living and work areas  ➤ Up to 40% floor area: Sliding or double hung with minimum	To R <sub>w</sub> +C <sub>tr</sub> 40dB  To al bedrooms, 2 layers of 10mm plasterboard, or one layer 13mm high density sealed plasterboard (minimum surface density of 12.5 kg/m2), affixed using steel furring	At least one outdoor living area located on the opposite side of the building from the corridor and/or at least one ground	> Acoustically rated openings and ductwork to provide a minimum sound reduction performance of Rw 40dB into sensitive spaces.		
	Side-on	<ul> <li>One layer of 10mm plasterboard fixed to the inside face</li> <li>Single leaf of 220mm brick masonry with 13mm cement render on each face</li> <li>150mm thick unlined concrete panel or 200mm thick concrete panel with one layer of 13mm plasterboard or 13mm cement render on each face</li> <li>Double brick: two leaves of 90mm clay brick masonry with:</li> </ul>	Bedrooms  Fully glazed hinged door with certified Rw+Ctr 31dB rated door and frame including seals and 10mm glass  Indoor Living and work areas  35mm solid core timber hinged door and frame system certified to Rw 28dB including seals: OR  Glazed sliding door with 10 mm glass and weather seals	6mm single pane or 6mm-12mm-6mm double insulated glazing (R <sub>w</sub> +C <sub>tr</sub> 31dB). Sealed awning or casement windows may use 6mm glazing instead: OR  ➤ Up to 60% floor area: As per Bedrooms at up to 40% area (Rw+Ctr 34dB)	channels beneath ceiling rafters/supports: and  R3.0+ insulation batts laid in cavity: and  Concrete or terracotta tile roof with sarking, or metal sheet roof with foil backed R2.0+ fibre insulation between steel sheeting and roof battens  level outdoo o	level outdoor living area screened using a solid continuous fence or other structure of minimum 2.4 metres	systems require a ttenuated ceiling air cents to allow closed windows.  Refrigerant- based systems need to be designed to		
	Opposite	<ul> <li>➤ A 50mm cavity between leaves</li> <li>➤ 50mm glass wool or polyester cavity insulation (R2.0+)</li> <li>➤ Resilient ties where required to connect leaves</li> <li>Double brick: two leaves of 110mm clay brick masonry with</li> <li>➤ 50mm cavity between leaves and R2.0+ cavity insulation</li> </ul>	Bedrooms:  Fully glazed hinged door with certified Rw+Ctr 28dB rated door and frame including seals and 6mm glass  Indoor Living and work areas:  35mm solid core timber hinged door and frame system certified to Rw 28dB including seals: OR  Glazed sliding door with 10 mm glass and weather seals	<ul> <li>▶ Total external door and window system area up to 40% of room floor area: Sliding or double hung with minimum 10 mm single or 6mm-12mm-10mm double insulted glazing (R<sub>w</sub>+C<sub>tr</sub> 28 dB). Sealed awning or casement windows may use 6 mm glazing instead: OR</li> <li>▶ Up to 60% floor area: as per above but must be sealed awning or casement type windows (R<sub>w</sub>+C<sub>tr</sub> 31dB).</li> <li>Indoor Living and work areas</li> <li>▶ Up to 40% floor area: Sliding, awning, casement or double hung with minimum 6mm single pane or 6mm-12mm-6mm double insulted glazing (R<sub>w</sub>+C<sub>tr</sub> 25dB): OR</li> <li>▶ Up to 60% floor area: As per Bedrooms at up to 40% area (R<sub>w</sub>+C<sub>tr</sub> 28 dB: OR</li> <li>▶ Up to 80% floor area: As per Bedrooms at up to 60% area (R<sub>w</sub>+C<sub>tr</sub> 31 dB).</li> </ul>		above ground	Construction Code fresh air ventilation requirements  Openings such as eaves, vents and air inlets must be acoustically treated, close or relocated to building sides facing away from the corridor where practicable.		

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