

Local Development Plan Provisions

The provisions of the Residential Design Codes (R-Codes) and the City's Medium Density Housing Standard (R-MD) Local Planning Policy are varied as shown on this plan. The requirements of the R-Codes, R-MD and City of Wanneroo District Planning Scheme No. 2 shall be satisfied in all other matters. Consultation with neighbouring and/or nearby landowners to achieve a variation to the R-Codes in accordance with the provisions of the LDP will not be required.

Vehicular Access

1. Vehicle access for all corner lots, excluding laneway lots, are permitted from either the primary street or secondary street.

Noise Attenuation

- 2. The Quiet House Design (QHD) requirements (as shown in LDP Sheet 2) apply to the lots identified in this LDP as follows:
 - Quiet House Design Package A for Lots 851, 879, 892-895, 915, 936-939, 962 and 979-991.
 - Quiet House Design Package B for Lots 850, 880, 916 and 917.

Interface with Public Open Space

- 3. The following provisions shall apply to Lots 850, 880, 916 and 917 which adjoin the public open space (POS):
 - (a) Proposed dwellings shall incorporate at least one (1) major opening to habitable room(s) facing the POS.
 - (b) Any visually permeable uniform fencing, retaining, stairwells and gates installed by the developer adjacent to the POS reserve shall not be modified without the prior approval of the City of Wanneroo.
 - (c) No boundary walls for development are permitted along the common boundary between the lots and the POS, with a minimum setback of 1.0m to the POS boundary.



Local Development Plan No. 3 **Jindowie Estate**







Quiet House Package A

56-58 dB $L_{Aeq(Day)}$ & 51-53 dB $L_{Aeq(Night)}$

Element	Orientation	Room		
		Bedroom	Indoor Living and Work Areas	
External Windows	Facing	Up to 40% floor area (R _w + C _{tr} ≥ 28): Sliding or double hung with minimum 10mm single or 6mm-12mm-10mm double insulated glazing; Sealed awning or casement windows with minimum 6mm glass. Up to 60% floor area (R _w + C _{tr} ≥ 31): Sealed awning or casement windows with minimum 6mm glass.	 Up to 40% floor area (R_w + C_{tr} ≥ 25): Sliding or double hung with minimum 6mm single or 6mm-12mm-6mm double insulated glazing; Up to 60% floor area (R_w + C_{tr} ≥ 28); Up to 80% floor area (R_w + C_{tr} ≥ 31). 	
	Side On	As above, except R_{w} + C_{tr} values may be 3 dB less or max $\%$ area increased by 20%.		
	Opposite	No specific requirements		
External Doors	Facing	 Fully glazed hinged door with certified R_w + C_{tr} ≥ 28 rated door and frame including seals and 6mm glass. 	 Doors to achieve R_w + C_{tr} ≥ 25: 35mm Solid timber core hinged door and frame system certified to R_w 28 including seals; Glazed sliding door with 10mm glass and weather seals. 	
	Side On	As above, except R _w + C _{tr} values may be 3 dB less.		
	Opposite	No specific requirements		
External Walls	All	 R_w + C_{tr} ≥ 45: Two leaves of 90mm thick clay brick masonry with minimum 20mm cavity; or Single leaf of 150mm brick masonry with 13mm cement render on each face; or One row of 92mm studs at 600mm centres with: Resilient steel channels fixed to the outside of the studs; and 9.5mm hardboard or fibre cement sheeting or 11mm fibre cement weatherboards fixed to the outside; 75mm thick mineral wool insulation with a density of at least 11kgkg/m³; and 2 x 16mm fire-rated plasterboard to inside. 		
Roofs and Ceilings	All	R _w + C _{tr} ≥ 35: Concrete or terracotta tile or metal sheet roof with sarking and at least 10mm plasterboard.		
Outdoor Living Areas		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.		

Quiet House Package B

59-62 dB L_{Aeq(Day)} & 54-57 dB L_{Aeq(Night)}

Element	Orientation	Room	
Element		Bedroom	Indoor Living and Work Areas
External Windows	Facing	Up to 40% floor area (R _w + C _{tr} ≥ 31): Fixed sash, awning or casement with minimum 6mm glass or 6mm-12mm-6mm double insulated glazing. Up to 60% floor area (R _w + C _{tr} ≥ 34): Fixed sash, awning or casement with minimum 10mm glass or 6mm-12mm-10mm double insulated glazing.	Up to 40% floor area (R _w + C _{tr} ≥ 28): Sliding or double hung with 6mm- 12mm-10mm double insulated glazing; Sealed awning or casement windows with minimum 6mm glass. Up to 60% floor area (R _w + C _{tr} ≥ 31); Up to 80% floor area (R _w + C _{tr} ≥ 34).
	Side On	As above, except R _w + C _{tr} values may be 3	3 dB less or max % area increased by 20%.
	Opposite	As above, except $R_w + C_{tr}$ values may be 6 dB less or max % area increased by 20%.	
External Doors	Facing	Fully glazed hinged door with certified R _w + C _{tr} ≥ 31 rated door and frame including seals and 10mm glass.	Doors to achieve R _w + C _{tr} ≥ 28: 40mm Solid timber core hinged door and frame system certified to R _w 32 including seals; Fully glazed hinged door with certified R _w + C _{tr} ≥ 28 rated door and frame including seals and 6mm glass.
	Side On	As above, except R _w + C _{tr} values may be 3 dB less or max % area increased by 20%.	
	Opposite	As above, except R_w + C_{tr} values may be 6 dB less or max % area increased by 20%.	
External Walls	All	 R_w + C_{tr} ≥ 50: Two leaves of 90mm thick clay brick masonry with minimum 50mm cavity between leaves and 25mm glasswool or polyester (24kg/m³). Resilient ties used where required to connect leaves. Two leaves of 110mm clay brick masonry with minimum 50mm cavity between leaves and 25mm glasswool or polyester insulation (24kg/m³). Single leaf of 220mm brick masonry with 13mm cement render on each face. 150mm thick unlined concrete panel or 200mm thick concrete panel with one layer of 13mm plasterboard or 13mm cement render on each face. Single leaf of 90mm clay brick masonry with: A row of 70mm x 35mm timber studs or 64mm steel studs at 600mm centres; A cavity of 25mm between leaves; 50mm glasswool or polyester insulation (11kg/m³) between studs; and One layer of 10mm plasterboard fixed to the inside face. 	
Roofs and Ceilings	All	R _w + C _{tr} ≥ 35: Concrete or terracotta tile or metal sheet roof with sarking and at least 10mm plasterboard ceiling with R3.0+ fibrous insulation.	
Outdoor Living Areas		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 force or other structure of minimum 2.4 meters height above ground level	

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Mechanical Ventilation requirements

In implementing the acceptable treatment packages, the following mechanical ventilation / airconditioning considerations are required:

- Acoustically rated openings and ductwork to provide a minimum sound reduction performance of R_w 40 dB into sensitive spaces;
- Evaporative systems require attenuated ceiling air vents to allow closed windows;
- Refrigerant based systems need to be designed to achieve National Construction Code fresh air ventilation requirements;
- 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.



