## Quiet House Package C

63-66 dB L<sub>Aeq(Day)</sub> & 58-61 dB L<sub>Aeq(Night)</sub>

Element	Orientation	Room		
		Bedroom	Indoor Living and Work Areas	
External Windows	Facing	<ul> <li>Up to 20% floor area (R<sub>w</sub> + C<sub>tr</sub> ≥ 31):         <ul> <li>Fixed sash, awning or casement with minimum 6mm glass or 6mm-12mm-6mm double insulated glazing.</li> </ul> </li> <li>Up to 40% floor area (R<sub>w</sub> + C<sub>tr</sub> ≥ 34):         <ul> <li>Fixed sash, awning or casement with minimum 10mm glass or 6mm-12mm-10mm double insulated glazing.</li> </ul> </li> </ul>	<ul> <li>Up to 40% floor area (R<sub>w</sub> + C<sub>tr</sub> ≥ 31):</li> <li>Fixed sash, awning or casement with minimum 6mm glass or 6mm-12mm-6mm double insulated glazing.</li> <li>Up to 60% floor area (R<sub>w</sub> + C<sub>tr</sub> ≥ 34):</li> <li>Fixed sash, awning or casement with minimum 10mm glass or 6mm-12mm-10mm double insulated glazing.</li> </ul>	
	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 Doors	Facing	• Not recommended.	<ul> <li>Doors to achieve R<sub>w</sub> + C<sub>tr</sub> ≥ 30:         <ul> <li>Fully glazed hinged door with certified R<sub>w</sub> + C<sub>tr</sub> ≥ 31 rated door and frame including seals and 10mm glass;</li> <li>40mm Solid timber core side hinged door, frame and seal system certified to R<sub>w</sub> 32 including seals. Any glass inserts to be minimum 6mm.</li> </ul> </li> </ul>	
	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	<ul> <li>R<sub>w</sub> + C<sub>tr</sub> ≥ 50:         <ul> <li>Two leaves of 90mm thick clay brick masonry with minimum 50mm cavity between leaves and 25mm glasswool or polyester insulation (24kg/m<sup>3</sup>). Resilient ties used where required to connect leaves.</li> <li>Two leaves of 110mm clay brick masonry with minimum 50mm cavity between leaves and 25mm glasswool or polyester insulation (24kg/m<sup>3</sup>).</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>Single leaf of 90mm clay brick masonry with:</li></ul></li></ul>		
Roofs and Ceilings	All	<ul> <li>R<sub>w</sub> + C<sub>tr</sub> ≥ 40:         <ul> <li>Concrete or terracotta tile roof with sarking, or metal sheet roof with foil backed R2.0+ fibrous insulation between steel sheeting and roof battens;</li> <li>R3.0+ insulation batts above ceiling;</li> <li>2 x 10mm plasterboard ceiling or 1 x 13mm sound-rated plasterboard affixed using steel furring channel to ceiling rafters.</li> </ul> </li> </ul>		
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 2.4 metres height above ground level.		