



NOTES:
1. DO NOT SCALE THIS DRAWING.

KEY

<div></div>	0–50dB(A)
<div></div>	50–55dB(A)
<div></div>	55–60dB(A)
<div></div>	60–65dB(A)
<div></div>	65–70dB(A)
<div></div>	70–75dB(A)
<div></div>	75–80dB(A)
<div></div>	>80dB(A)

REV:	AMENDMENTS:	EW	NF	AB	15.06.25
		DRN	CHK	APP	DATE:

PROJECT: LAND SOUTH OF SACHEVERELL WAY, GROBY

DRAWING TITLE: NIGHT-TIME MAXIMUM SOUND LEVELS, LAFmax,T

CLIENT: J S BLOOR

DRAWING NUMBER: 28953_04_120_03

REVISION:	SHEET SIZE:	SCALE:
-	A3	NFS

STATUS: FOR INFORMATION / APPROVAL

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APPENDICES



APPENDIX E



NOTES:

- DO NOT SCALE THIS DRAWING.
- Please refer to report reference 28953-ENV-0401 for the details on the proposed glazing and ventilation references.

KEY

Ref. A

Ref. B

Ref. C

REV:	AMENDMENTS:	EW	NF	AB	15.06.25
		DRN	CHK	APP	DATE:

PROJECT: LAND SOUTH OF SACHEVERELL WAY, GROBY

DRAWING TITLE: MITIGATION REFERENCE FOR HABITABLE BEDROOMS

CLIENT: J S BLOOR

DRAWING NUMBER: 28953_04_120_04

REVISION:	SHEET SIZE:	SCALE:
-	A3	NFS

STATUS: FOR INFORMATION / APPROVAL

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KEY

Ref. A

Ref. B

REV:	AMENDMENTS:	EW	NF	AB	15.06.25
		DRN	CHK	APP	DATE:
PROJECT: LAND SOUTH OF SACHEVERELL WAY, GROBY					
DRAWING TITLE: MITIGATION REFERENCE FOR ALL OTHER HABITABLE ROOMS (NON-BEDROOMS)					
CLIENT: J S BLOOR					
DRAWING NUMBER: 28953_04_120_05					
REVISION:	SHEET SIZE:	SCALE:			
-	A3	NFS			
STATUS: FOR INFORMATION / APPROVAL					
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APPENDICES



APPENDIX F

Reference A Performance Requirements

Façade Element	Sound Insulation Performance Requirements (dB) in Octave Band Centre Frequencies (Hz)						$R_w / D_{ne,w}$ (dB)	C_{tr} (dB)
	125	250	500	1k	2k	4k		
Glazing	22	20	26	36	39	31	31	-4
Ventilation (Trickle)	32	32	31	33	31	31	32	0
<p>The glazing reduction requirements can typically be found in a configuration of 4/12/4, where the information is presented in terms of the thickness of one pane of glass in mm, followed by the size of the air gap in mm, followed by the thickness of the second pane of glass in mm.</p> <p>The background ventilation requirements can be found in standard window mounted non-acoustic trickle ventilators.</p>								

Reference B Performance Requirements

Façade Element	Sound Insulation Performance Requirements (dB) in Octave Band Centre Frequencies (Hz)						$R_w / D_{ne,w}$ (dB)	C_{tr} (dB)
	125	250	500	1k	2k	4k		
Glazing	29	27	35	37	36	45	36	-3
Ventilation (Trickle)	31	35	40	39	31	31	36	-1
<p>The glazing reduction requirements can typically be found in a configuration of 8/12/10.</p> <p>The background ventilation requirements can be found in window mounted acoustic trickle ventilators.</p>								

Reference C Performance Requirements

Façade Element	Sound Insulation Performance Requirements (dB) in Octave Band Centre Frequencies (Hz)						$R_w / D_{ne,w}$ (dB)	C_{tr} (dB)
	125	250	500	1k	2k	4k		
Glazing	25	29	40	48	47	56	42	-6
Ventilation (Trickle)	43	36	38	52	62	70	45	-3
<p>The glazing reduction requirements can typically be found in a configuration of 6/18/9.5 laminated pane.</p> <p>The background ventilation requirements can be found in through wall acoustic trickle ventilators.</p>								

Minimum performance requirements for overheating ventilation only applicable if passive ventilation is used. If mechanical ventilation is chosen, please refer to the main body of the acoustics report for suitable noise limits.

It is appreciated that it is impractical to achieve every octave band minimum performance requirement, therefore, during procurement of solutions, the $R_w + C_{tr}$ or $D_{ne,w} + C_{tr}$ should be adhered to at a minimum.



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