

Northern boundary dwellings within Phase 2



Industrial sound is unlikely to affect these dwellings and consequently is not applicable.

Period	A	B	C	D	E
	Prevailing Road Traffic Noise Level ($L_{Aeq,T}$, dB)	Prevailing Industrial Rating Level ($L_{Ar,Tr}$, dB)	Internal Criterion (dB)	Required Glazing Sound Insulation to Control Road Traffic Noise ($A-C+5$) ^{1,2} ($R_w + C_{tr}$, dB)	Required Glazing Sound Insulation to Control Industrial Sound ($B-C+5$) ^{1,2} ($R_w + C_{tr}$, dB)
Daytime (T)	$\leq L_{Aeq,T} 55$ (16h)	N/A	$L_{Aeq,T} / L_{Ar,Tr} 35$	25	N/A
Night-time (T)	$\leq L_{Aeq,T} 48$ (8h)	N/A	$L_{Aeq,T} / L_{Ar,Tr} 30$	23	N/A
Night-time (max)	$< L_{AFmax,T} 60$	N/A	$L_{AFmax,T} 45$	20	N/A

North-western boundary dwellings within Phase 2



Industrial sound is unlikely to affect these dwellings and consequently is not applicable.

Period	A	B	C	D	E
	Prevailing Road Traffic Noise Level ($L_{Aeq,T}$, dB)	Prevailing Industrial Rating Level ($L_{Ar,Tr}$, dB)	Internal Criterion (dB)	Required Glazing Sound Insulation to Control Road Traffic Noise ($A-C+5$) ^{1,2} ($R_w + C_{tr}$, dB)	Required Glazing Sound Insulation to Control Industrial Sound ($B-C+5$) ^{1,2} ($R_w + C_{tr}$, dB)
Daytime (T)	$\leq L_{Aeq,T} 55$ (16h)	N/A	$L_{Aeq,T} / L_{Ar,Tr} 35$	25	N/A
Night-time (T)	$\leq L_{Aeq,T} 48$ (8h)	N/A	$L_{Aeq,T} / L_{Ar,Tr} 30$	23	N/A
Night-time (max)	$< L_{AFmax,T} 60$	N/A	$L_{AFmax,T} 45$	20	N/A

Southern boundary dwellings within Phase 2



Industrial sound is unlikely to affect these dwellings and consequently is not applicable.

Period	A	B	C	D	E
	Prevailing Road Traffic Noise Level (dB)	Prevailing Industrial Rating Level (dB)	Internal Criterion (dB)	Required Glazing Sound Insulation to Control Road Traffic Noise (A-C+5) ^{1,2} ($R_w + C_{tr}$, dB)	Required Glazing Sound Insulation to Control Industrial Sound (B-C+5) ^{1,2} ($R_w + C_{tr}$, dB)
Daytime (T)	$\leq L_{Aeq,T} 52$ (16h)	N/A	$L_{Aeq,T} / L_{Ar,Tr} 35$	22	N/A
Night-time (T)	$\leq L_{Aeq,T} 44$ (8h)	N/A	$L_{Aeq,T} / L_{Ar,Tr} 30$	19	N/A
Night-time (max)	$< L_{AFmax,T} 60$	N/A	$L_{AFmax,T} 45$	20	N/A

Western boundary dwellings within Phase 2



Industrial sound is unlikely to affect these dwellings and consequently is not applicable.

Period	A	B	C	D	E
	Prevailing Road Traffic Noise Level (dB)	Prevailing Industrial Rating Level (dB)	Internal Criterion (dB)	Required Glazing Sound Insulation to Control Road Traffic Noise (A-C+5) ^{1,2} (R _w + C _{tr} , dB)	Required Glazing Sound Insulation to Control Industrial Sound (B-C+5) ^{1,2} (R _w + C _{tr} , dB)
Daytime (T)	≤ L _{Aeq,T} 54 (16h)	N/A	L _{Aeq,T} / L _{Ar,Tr} 35	24	N/A
Night-time (T)	≤ L _{Aeq,T} 48 (8h)	N/A	L _{Aeq,T} / L _{Ar,Tr} 30	23	N/A
Night-time (max)	< L _{AFmax,T} 60	N/A	L _{AFmax,T} 45	20	N/A

Western boundary dwellings within Phase 3 to 5



Industrial sound is unlikely to affect these dwellings and consequently is not applicable.

Period	A	B	C	D	E
	Prevailing Road Traffic Noise Level (dB)	Prevailing Industrial Rating Level (dB)	Internal Criterion (dB)	Required Glazing Sound Insulation to Control Road Traffic Noise (A-C+5) ^{1,2} (R _w + C _{tr} , dB)	Required Glazing Sound Insulation to Control Industrial Sound (B-C+5) ^{1,2} (R _w + C _{tr} , dB)
Daytime (T)	≤ L _{Aeq,T} 54 (16h)	N/A	L _{Aeq,T} / L _{Ar,Tr} 35	24	N/A
Night-time (T)	≤ L _{Aeq,T} 48 (8h)	N/A	L _{Aeq,T} / L _{Ar,Tr} 30	23	N/A
Night-time (max)	< L _{AFmax,T} 60	N/A	L _{AFmax,T} 45	20	N/A

Southern extent of residential use within Phases 3 to 5



Industrial sound is unlikely to affect these dwellings and consequently is not applicable.

Period	A	B	C	D	E
	Prevailing Road Traffic Noise Level (dB)	Prevailing Industrial Rating Level (dB)	Internal Criterion (dB)	Required Glazing Sound Insulation to Control Road Traffic Noise (A-C+5) ^{1,2} (R _w + C _{tr} , dB)	Required Glazing Sound Insulation to Control Industrial Sound (B-C+5) ^{1,2} (R _w + C _{tr} , dB)
Daytime (T)	≤ L _{Aeq,T} 50 (16h)	N/A	L _{Aeq,T} / L _{Ar,Tr} 35	20	N/A
Night-time (T)	≤ L _{Aeq,T} 45 (8h)	N/A	L _{Aeq,T} / L _{Ar,Tr} 30	20	N/A
Night-time (max)	< L _{AFmax,T} 60	N/A	L _{AFmax,T} 45	20	N/A

Eastern extent of residential use within Phases 3 to 5 (i.e. closest to Titan Way)



Specific industrial sound is unlikely to affect these dwellings and consequently is not applicable.

Period	A	B	C	D	E
	Prevailing Road Traffic Noise Level (dB)	Prevailing Industrial Rating Level (dB)	Internal Criterion (dB)	Required Glazing Sound Insulation to Control Road Traffic Noise (A-C+5) ^{1,2} (R _w + C _{tr} , dB)	Required Glazing Sound Insulation to Control Industrial Sound (B-C+5) ^{1,2} (R _w + C _{tr} , dB)
Daytime (T)	≤ L _{Aeq,T} 55 (16h)	N/A	L _{Aeq,T} / L _{Ar,Tr} 35	25	N/A
Night-time (T)	≤ L _{Aeq,T} 50 (8h)	N/A	L _{Aeq,T} / L _{Ar,Tr} 30	25	N/A
Night-time (max)	< L _{AFmax,T} 73	N/A	L _{AFmax,T} 45	33	N/A

Northern extent of residential use within Phases 3 to 5 (i.e. adjoining the proposed employment use)



Industrial sound from CSA Group operations has been considered for these receptors. Limits for the proposed employment use have been set in order to control noise to an acceptable level at the

Period	A	B	C	D	E
	Prevailing Road Traffic Noise Level (dB)	Prevailing Industrial Rating Level (dB)	Internal Criterion (dB)	Required Glazing Sound Insulation to Control Road Traffic Noise (A-C+5) ^{1,2} (R _w + C _{tr} , dB)	Required Glazing Sound Insulation to Control Industrial Sound (B-C+5) ^{1,2} (R _w + C _{tr} , dB)
Daytime (T)	≤ L _{Aeq,T} 55 (16h)	≤ L _{Ar,Tr} 42 (1h)	L _{Aeq,T} / L _{Ar,Tr} 35	25	12
Night-time (T)	≤ L _{Aeq,T} 50 (8h)	≤ L _{Ar,Tr} 41 (15m)	L _{Aeq,T} / L _{Ar,Tr} 30	25	16
Night-time (max)	< L _{AFmax,T} 60	< L _{AFmax,T} 47	L _{AFmax,T} 45	20	7