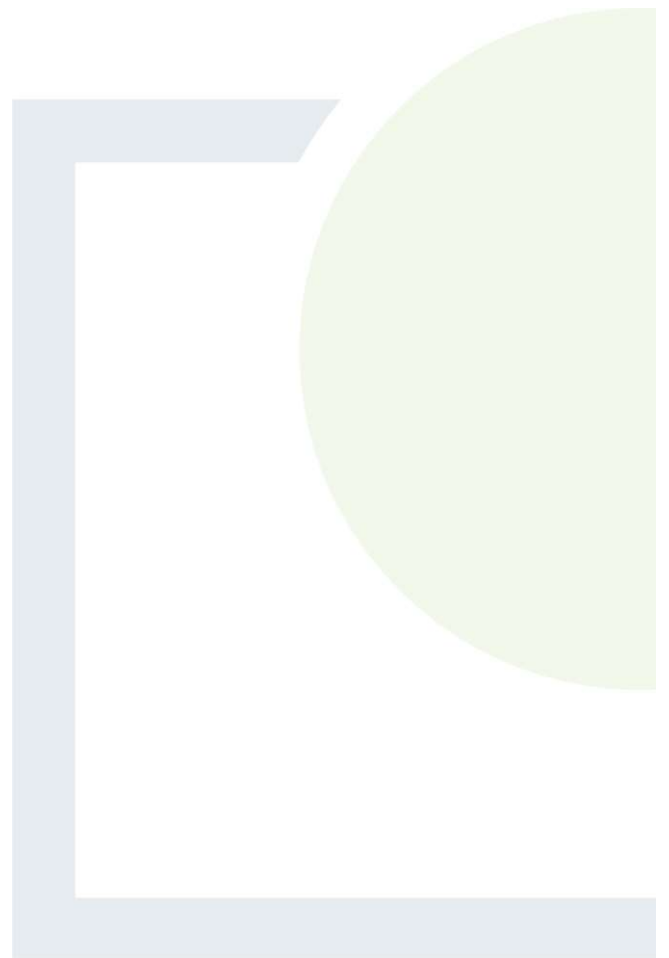




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APPENDIX **A**

Noise Assessment






Sound level calculators that work in your browser.

Free to use

Noise Calculator - Point Source Model ? help

Source 1 


Q (D_θ) Use universal? or 2 ▾ or 3 ▾ dB

Location A

Distance (m) m m

Sound Pressure Level L_p (dB) dB dB

Sound Power Level L_w (dB) dB dB

Source 2 


Q (D_θ) Use universal? or 1 ▾ or 3 ▾ dB

Location C

Distance (m) m m

Sound Pressure Level L_p (dB) dB dB

Sound Power Level L_w (dB) dB dB

Source 3 

Q (D_θ) Use universal? or 1 ▾ or 3 ▾ dB

Location F

Distance (m) m m

Sound Pressure Level L_p (dB) dB dB

Sound Power Level L_w (dB) dB dB

Universal Settings

Source directivity Q (and corresponding D_θ)

1 = whole (e.g. above soft ground)
 2 = half (e.g. above hard ground)
 4 = quarter (e.g. above hard ground on a wall)
 8 = eighth space (e.g. in the corner of a room)

Receiver = Façade Level? (+3dB) ▾ dB

Combining Sources

Sources	Location	On time	Leq
Source 1 <input checked="" type="checkbox"/>	A ▾	100 %	95 dB
Source 2 <input checked="" type="checkbox"/>	C ▾	100 %	86 dB
Source 3 <input checked="" type="checkbox"/>	E ▾	100 %	84 dB
Total Leq			96 dB

Notes

The calculations are for the point source model of sound propagation (6dB per doubling of distance). For sources of significant size, sound pressure levels must be input at source-to-receiver distances large enough to be sufficiently in the **far-field**, where inherent directivity is minimal. For a broadband source, this is where the distance is greater than the longest dimension of the source.

The calculations are based on **free-field** conditions, where there is no reverberant field.

For more in-depth help [click here](#).



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